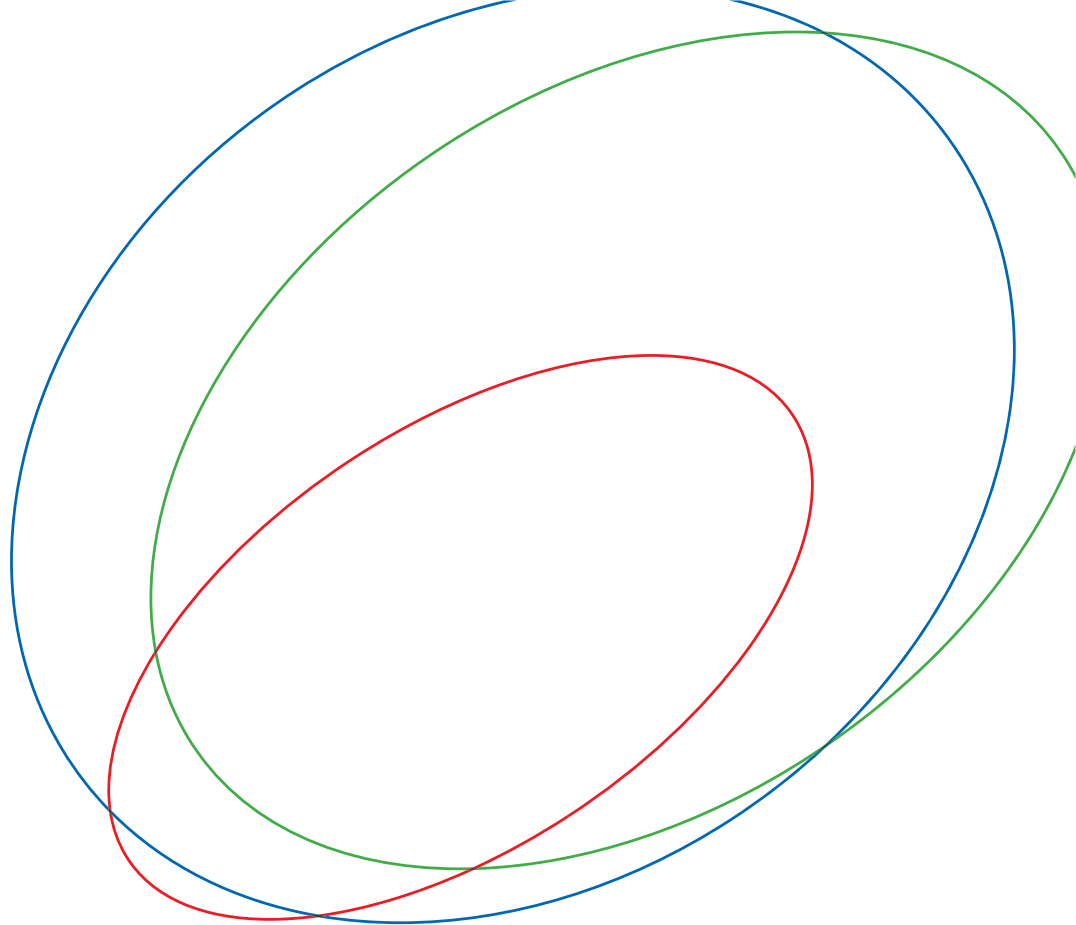
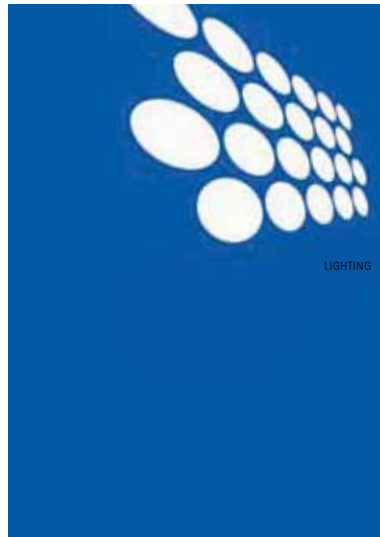




ETAP  EXCELLENT LIGHTING, SAVING ENERGY

2011-2012



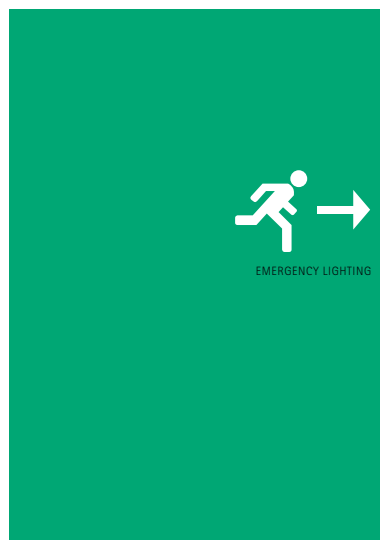
p.9

ETAP LIGHTING
Luminaires;
Lighting controls



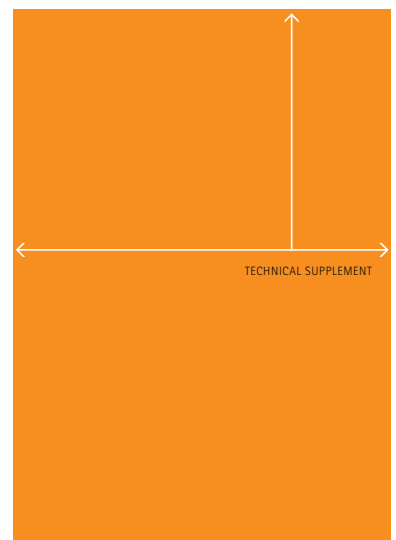
p.243

EXCELLUM
Advanced building management systems



p.263

ETAP EMERGENCY LIGHTING
Self contained and centrally supplied emergency
lighting; building management systems; services



p.361

TECHNICAL SUPPLEMENT
Technical information: dimensional
sketches, standards, accessories, ...





webref. SA024H2



webref. SA044A1



webref. SA011M9

ETAP, YOUR RELIABLE PARTNER IN INTERIOR AND EMERGENCY LIGHTING

For more than 60 years, ETAP has been designing and producing lighting and emergency lighting for offices, industry, schools, healthcare, shops and hotels. Our vast experience, professional approach, innovation and flexibility make us a reliable and solid partner in the European market. We develop the best lighting solutions together with our customers.

TOP QUALITY FROM A TO Z

ETAP is actively involved in every step of your lighting project: from lighting study and advice, design and creation through to order processing, production and delivery. This enables us to guarantee superior quality and punctual deliveries in every process stage. Moreover, we always seek to balance the economical, ergonomic and aesthetic aspects of your lighting project.

ETAP LIGHTING AND EMERGENCY LIGHTING SOLUTION ARE:

- geared to your specific requirements;
- in harmony with the architecture of the building;
- energy-friendly;
- perfectly adapted to the people working in the building;
- extremely reliable and safe;
- the most durable in the market.

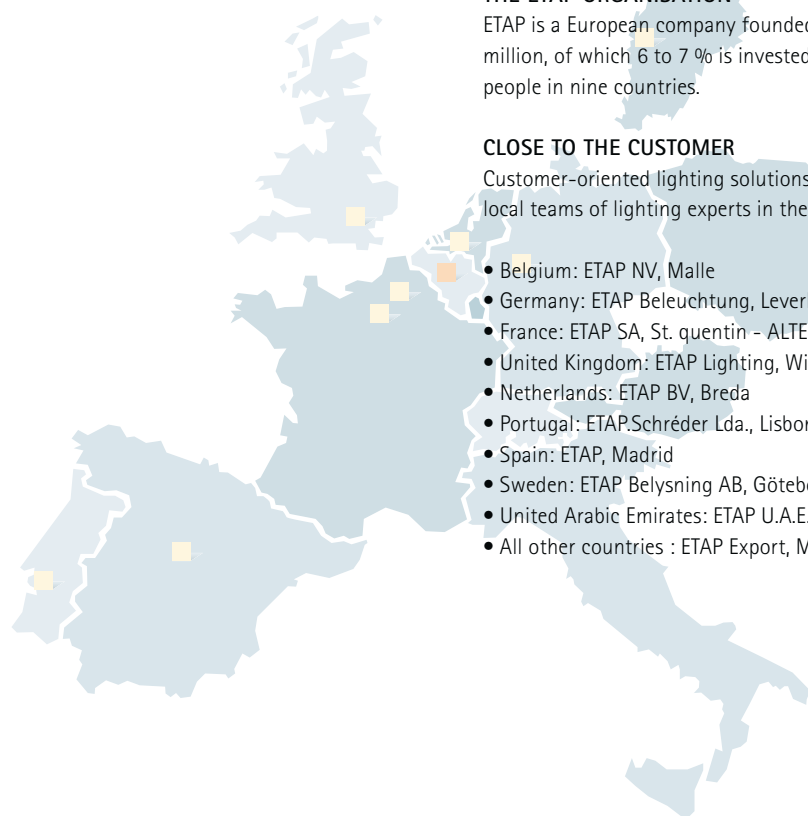
THE ETAP ORGANISATION

ETAP is a European company founded in Antwerp in 1949. Our annual turnover amounts to € 60 million, of which 6 to 7 % is invested each year in research and development. ETAP employs 600 people in nine countries.

CLOSE TO THE CUSTOMER

Customer-oriented lighting solutions imply close contact with the customer. That is why ETAP has local teams of lighting experts in the following countries:

- Belgium: ETAP NV, Malle
- Germany: ETAP Beleuchtung, Leverkusen
- France: ETAP SA, St. Quentin - ALTER SAS, Parijs
- United Kingdom: ETAP Lighting, Windsor
- Netherlands: ETAP BV, Breda
- Portugal: ETAP.Schröder Lda., Lisbon
- Spain: ETAP, Madrid
- Sweden: ETAP Belysning AB, Göteborg
- United Arab Emirates: ETAP U.A.E., Dubai
- All other countries : ETAP Export, Malle





webref. SK7010E2



webref. SC006B1

EXCELLENT LIGHTING
SAVING ENERGY



ENERGY FRIENDLY, SAFE AND COMFORTABLE SOLUTIONS

ETAP lighting solutions consume less energy than any other comparable system. This is due to the ingenious optical design, the high quality reflectors and diffusers, the optimal arrangement of the luminaires, and the judicious use of light control systems.

ETAP lighting solutions are also comfortable. They ensure pleasant room lighting, good contrast and colour rendition, and prevent disability glare.

Emergency lighting safety comes first and foremost at ETAP, i.e. guaranteeing sufficient light and clear signage to ensure a safe evacuation in emergency situations. All luminaires are designed using the most reliable electronics. High quality components, automatic mounting and extensive tests ensure high operational reliability and long service life. All ETAP luminaires are also equipped with automatic self-testing. The ETAP Safety Manager (ESM) allows you to monitor the safety of the installed emergency lighting at all times.

TAILOR-MADE SOLUTIONS

For both new and existing buildings, the lighting often has to be adapted to suit specific customer requirements or technical characteristics of the building. Its flexible organisation and decades of experience enable ETAP to flexibly respond to this demand.

ETAP, THE LIGHTING AND EMERGENCY LIGHTING EXPERT

ETAP is continually expanding its know-how in the area of illumination and photometry. Our specialised staff closely monitors new developments and standards, and integrates them into innovative solutions. For this, we have sophisticated calculation software, our own laboratories and a flexible production environment. ETAP specialists also actively take part in European committees for standardisation.

LED

ETAP LIGHTS THE WAY WITH LEDS

LEDs are 'in', and that is no coincidence. Today, this innovative light source offers an economically and ecologically justified alternative to many conventional light sources – provided, of course, that the LED solutions are technically well designed – which, judging by the vast array of LED luminaires flooding the market, is far from evident.

Not so for our ETAP engineers, who have earned a solid reputation in the development of new, pioneering and technically reliable luminaires.

Already in 2003, ETAP was one of the first in the sector to introduce LEDs into its emergency lighting. Today we use only LEDs as light source in our new emergency lighting luminaires.

This catalogue also contains a broad range of LED products for general lighting. ETAP closely monitors new developments in LEDs, and fully exploits their positive characteristics. In the coming years, as the technical performance of LEDs will continue to improve and their cost will continue to drop, an ever growing number of lighting applications will be candidates for LED solutions. Visit our website for the latest developments.



webref. SA024B7

ETAP, DURABLE IN LIGHTING AND EMERGENCY LIGHTING

DURABLE LIGHTING

ETAP strives to achieve a sound long-term balance between the three pillars of sustainable development: people (motivated employees, a pleasant working environment), planet (sustainable products, care of the environment) and profit (sound economic efficiency).

Our professional approach, flexibility and passion for lighting make us the ideal partner for all your lighting projects. Through creativity, innovation and close collaboration with principals and suppliers, we create lighting and emergency lighting solutions that best meet our customers' needs and requirements.

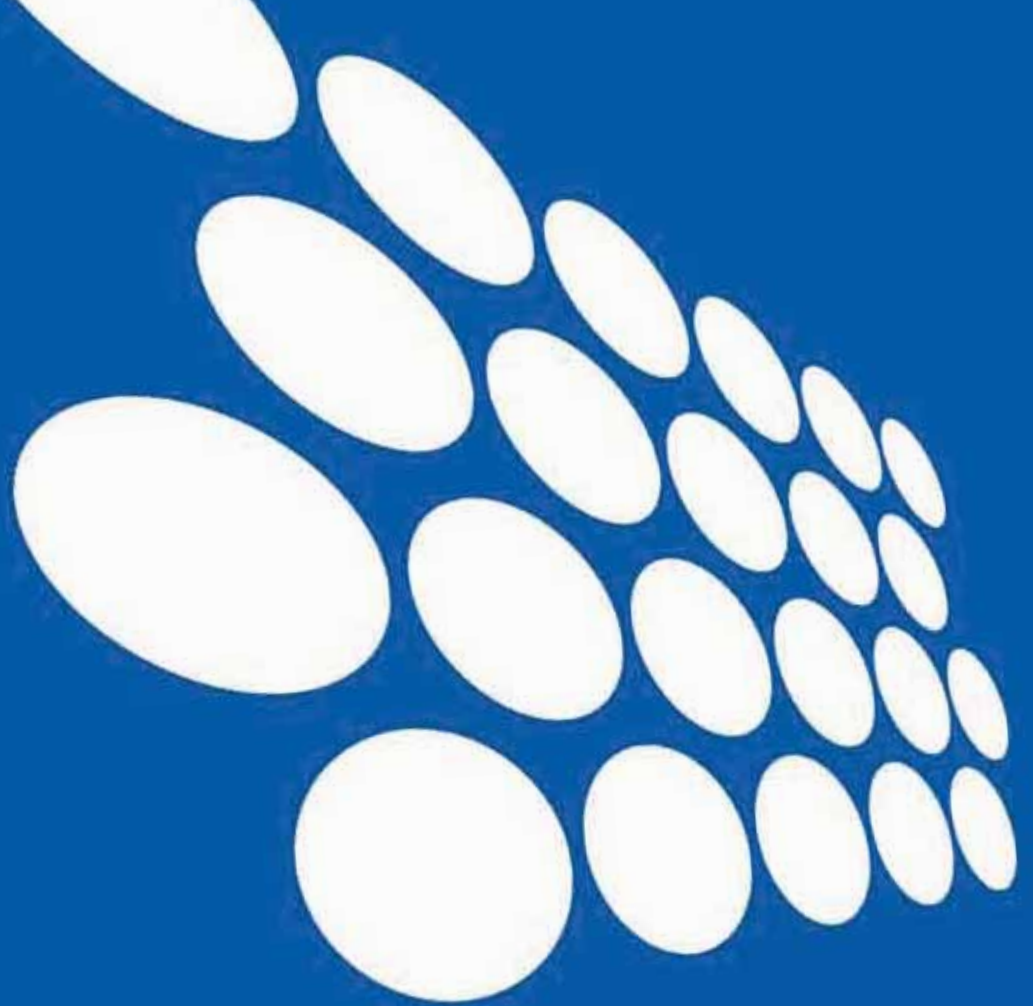
THE LIGHT PAVILION

At the ETAP Light Pavilion in Malle, we help our customers in making adequate choices. There you can discover the results of more than a half century of experience. The building is extremely environment-friendly, not only in terms of low-energy lighting, but also with its temperature control techniques.

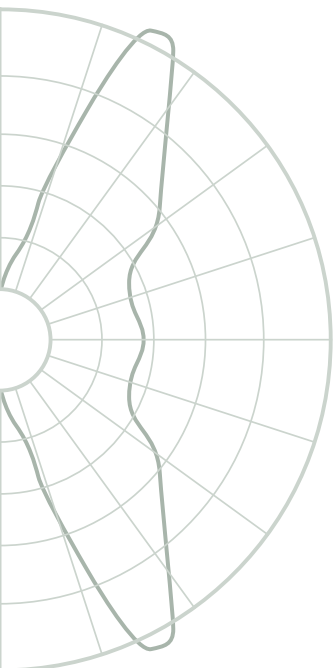
Energy consumption for the cooling system, for example, is reduced by as much as 80% as compared to conventional buildings.



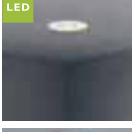
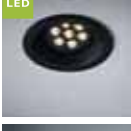
webref. SA040A1



LIGHTING



CONTENTS LIGHTING

			Recessed luminaires	14
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webref. SUX007D

ETAP LIGHTING, EFFICIENCY AND COMFORT

"LIGHTING FOR PEOPLE" AT WORK

For ETAP, good lighting means first of all taking account of the physiological, ergonomic and comfort needs of people at work.

We make our customers' wishes come true.

THE BEST LIGHTING SOLUTIONS

ETAP solutions are the most energy-efficient within each lighting concept. We boast over 15 years experience of lighting controls, integrated in our luminaires.

Our lighting adds value to the architecture of the building. Disturbing luminance is perfectly controlled in all directions. Together with our customers we integrate the lighting into the other building techniques: ceiling structure, air handling, noise control, building management systems. In new projects as well as in refurbishment, we can tailor the luminaires to the customer's and project's needs.

THE LIGHTING SPECIALIST

ETAP Lighting works continuously towards strengthening its skills in the fields of lighting know-how and lighting technology. We have a self-certification laboratory at our disposal, as well as sophisticated computing programs and flexible manufacturing facilities.

RECESSED LUMINAIRES

reflector

square



U1
p 17



U5
p 27



U5
p 28



UJ201
p 33

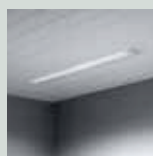


UT1
p 42

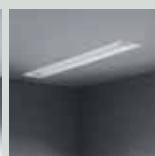
linear



U1
p 19



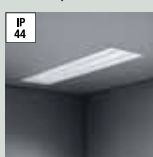
U3
p 22



U5
p 29



U5
p 32



UJ403
p 34



UT1
p 43



UT6
p 49

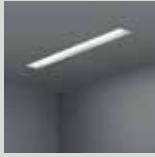
round



webref. SUM04F2

softlight



					
UM1 p 35	UM2 p 41		DALLE p 51	EBIND p 5	EBIND p 53
					
EDEN p 54	EGLASS p 55	EHAD p 55	ELITE p 56	ETITA p 59	EVER p 61
					
EXTRA p 62	OPTART p 63	SCOUP p 65	SKY p 67	VELA p 67	
					
UM1 p 39	UM2 p 41	UT1 p 48		ECHO p 54	ELITE p 56
					
ENEXTRA p 57	EPOLY p 58	ETITA p 59	EVER p 61	EXTRA p 62	
					
SCOUP p 65					

RECESSED
LUMINAIRES





U14, 3 lamp - webref. SU1021A1



U1

	Housing	Lacquered sheet steel housing with hinged optics
	Optic	Reflector - HRSilver™ - high reflection aluminium
	Air extraction	Possible - see table: surface air extraction openings

Dimensional sketches p 384

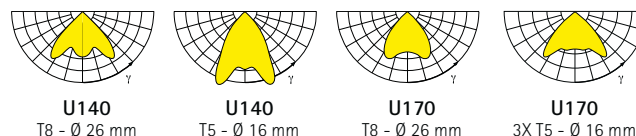
SQUARE

Table explanation p 427

module	lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option
Reflector - satin-anodised aluminium - SLL baffles									
	 T8 - Ø 26 mm								
60°	600 3 x 18W	≤ 1000 (65°)	≤ 16	79	596 x 596 x 118	1	90	U1401/318HFW	-
	625 3 x 18W	≤ 1000 (65°)	≤ 16	79	621 x 621 x 118	1	90	U1407/318HFW	-
Reflector - satin-anodised aluminium - SLL baffles									
	 T5 - Ø 16 mm								
60°	600 3 x 14W	≤ 1000 (65°)	≤ 16	91	596 x 596 x 118	2	-	U1401/314HFW	-
	3 x 24W	≤ 1000 (65°)	≤ 19	93	596 x 596 x 118	2	-	U1401/324HFW	-
	625 3 x 14W	≤ 1000 (65°)	≤ 16	91	621 x 621 x 118	2	-	U1407/314HFW	-
	3 x 24W	≤ 1000 (65°)	≤ 19	93	621 x 621 x 118	2	-	U1407/324HFW	-
Reflector - satin-anodised aluminium - Microlum® baffles									
	 T8 - Ø 26 mm								
60°	600 3 x 18W	≤ 200 (65°)	≤ 16	69	596 x 596 x 99	17	-	U1701/318HFW	-
	625 3 x 18W	≤ 200 (65°)	≤ 16	69	621 x 621 x 99	17	-	U1707/318HFW	-
Reflector - satin-anodised aluminium - Microlum® baffles									
	 T5 - Ø 16 mm								
60°	600 3 x 14W	≤ 1000 (65°)	≤ 16	82	596 x 596 x 99	16	-	U1701/314HFW	-
	3 x 24W	≤ 1000 (65°)	≤ 19	84	596 x 596 x 99	16	-	U1701/324HFW	-
	625 3 x 14W	≤ 1000 (65°)	≤ 16	82	621 x 621 x 99	16	-	U1707/314HFW	-
	3 x 24W	≤ 1000 (65°)	≤ 19	84	621 x 621 x 99	16	-	U1707/324HFW	-



Save up to 75% of energy
see p 236 up to 261





U17, 4 lamp - webref. SU1022B1

U1

SQUARE

Table explanation p 427

table explanation p.42

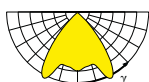
module	lamp type	$L_{av.} - \text{limit}$ cd/m^2	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option	
Reflector - satin-anodised aluminium - Microlum® baffles										
	 T5 - Ø 16 mm									
60°	600	4 x 14W	≤ 1000 (65°)	≤ 19	79	596 x 596 x 99	16	-	U1701/414HFW ¹	-
		4 x 24W	≤ 1000 (65°)	≤ 19	80	596 x 596 x 99	16	-	U1701/424HFW ¹	-
	625	4 x 14W	≤ 1000 (65°)	≤ 19	79	621 x 621 x 99	16	-	U1707/414HFW ¹	-
		4 x 24W	≤ 1000 (65°)	≤ 19	80	621 x 621 x 99	16	-	U1707/424HFW ¹	-
Reflector - satin-anodised aluminium - Isolum®										
	 T8 - Ø 26 mm									
60°	600	3 x 18W	≤ 200 (65°)	≤ 19	76	596 x 596 x 118	1	90	U1421/318HFW	-
	625	3 x 18W	≤ 200 (65°)	≤ 19	76	621 x 621 x 118	1	90	U1427/318HFW	-
50°	600	3 x 18W	≤ 1000 (55°)	≤ 16	71	596 x 596 x 118	1	90	U1441/318HFW	-
	625	3 x 18W	≤ 1000 (55°)	≤ 16	71	621 x 621 x 118	1	90	U1447/318HFW	-
Reflector - satin-anodised aluminium - Isolum® baffles										
	 T5 - Ø 16 mm									
60°	600	3 x 14W	≤ 200 (65°)	≤ 16	88	596 x 596 x 118	2	-	U1421/314HFW	-
		3 x 24W	≤ 200 (65°)	≤ 16	90	596 x 596 x 118	2	-	U1421/324HFW	-
	625	3 x 14W	≤ 200 (65°)	≤ 16	88	621 x 621 x 118	2	-	U1427/314HFW	-
		3 x 24W	≤ 200 (65°)	≤ 16	90	621 x 621 x 118	2	-	U1427/324HFW	-
50°	600	3 x 14W	≤ 1000 (55°)	≤ 16	85	596 x 596 x 118	2	-	U1441/314HFW	-
		3 x 24W	≤ 200 (65°)	≤ 16	86	596 x 596 x 118	2	-	U1441/324HFW	-
	625	3 x 14W	≤ 1000 (55°)	≤ 16	85	621 x 621 x 118	2	-	U1447/314HFW	-
		3 x 24W	≤ 200 (65°)	≤ 16	86	621 x 621 x 118	2	-	U1447/324HFW	-

¹ 2 lamps per reflector compartment


U142
T8 - Ø 26 mm



U144
T8 - Ø 26 mm



U142 / U144
T5 - Ø 16 mm



U170
4x T5 - Ø 16 mm



U16 - webref. SU1023F1

U1

LINEAR

Table explanation p 427

table explanation p 42										
module	lamp type	$L_{av.} = \text{limit}$ cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option	
Reflector - satin-anodised aluminium - flat baffles										
	 T8 - Ø 26 mm									
70°	-	1 x 36W	-	≤ 22	80	1246 x 165 x 93	6	42	U1580/136HFW	-
		1 x 58W	-	≤ 22	78	1546 x 165 x 93	6	49	U1580/158HFW	-
60°	-	1 x 18W	-	≤ 19	73	636 x 165 x 93	7	-	U1590/118HFW	-
		1 x 36W	-	≤ 19	74	1246 x 165 x 93	6	42	U1590/136HFW	-
		1 x 58W	-	≤ 19	72	1546 x 165 x 93	6	49	U1590/158HFW	-
	1800	1 x 58W	-	≤ 19	72	1720 x 196 x 93	12	49	U1595/158HFW ¹	-
	300	1 x 36W	-	≤ 19	72	1196 x 296 x 93	8	42	U1591/136HFW	-
		1 x 58W	-	≤ 19	72	1546 x 296 x 93	9	49	U1592/158HFW	-
Reflector - satin-anodised aluminium - flat baffles										
	 T8 - Ø 26 mm									
60°	300	2 x 18W	-	≤ 19	73	636 x 296 x 100	14	-	U1592/218HFW	-
		2 x 36W	-	≤ 19	72	1196 x 296 x 100	13	84	U1591/236HFW	-
		2 x 58W	-	≤ 19	72	1546 x 296 x 100	14	98	U1592/258HFW	-
Reflector - satin-anodised aluminium - Isolum® baffles										
	 T8 - Ø 26 mm									
60°	-	1 x 18W	≤ 200 (65°)	≤ 19	77	636 x 165 x 93	7	-	U1600/118HFW	-
		1 x 36W	≤ 1000 (65°)	≤ 19	80	1246 x 165 x 93	6	42	U1600/136HFW	-
		1 x 58W	≤ 1000 (65°)	≤ 19	77	1546 x 165 x 93	6	49	U1600/158HFW	-
	1800	1 x 58W	≤ 1000 (65°)	≤ 19	77	1720 x 196 x 93	12	49	U1605/158HFW ¹	-
	300	1 x 36W	≤ 1000 (65°)	≤ 19	77	1196 x 296 x 93	8	42	U1601/136HFW	-
		1 x 58W	≤ 1000 (65°)	≤ 19	77	1546 x 296 x 93	9	49	U1602/158HFW	-
50°	-	1 x 18W	≤ 200 (55°)	≤ 16	63	636 x 165 x 93	7	-	U1630/118HFW	-
		1 x 36W	≤ 1000 (55°)	≤ 16	63	1246 x 165 x 93	6	42	U1630/136HFW	-
		1 x 58W	≤ 1000 (55°)	≤ 16	61	1546 x 165 x 93	6	49	U1630/158HFW	-
	1800	1 x 58W	≤ 1000 (55°)	≤ 16	61	1720 x 196 x 93	12	49	U1635/158HFW ¹	-
	300	1 x 36W	≤ 1000 (55°)	≤ 16	61	1196 x 296 x 93	8	42	U1631/136HFW	-
		1 x 58W	≤ 1000 (55°)	≤ 16	61	1546 x 296 x 93	9	49	U1632/158HFW	-
Reflector - satin-anodised aluminium - Isolum® baffles										
	 T8 - Ø 26 mm									
60°	300	2 x 18W	≤ 1000 (65°)	≤ 19	74	636 x 296 x 100	14	-	U1602/218HFW	-
		2 x 36W	≤ 1000 (65°)	≤ 19	77	1196 x 296 x 100	13	84	U1601/236HFW	-
		2 x 58W	≤ 1000 (65°)	≤ 19	77	1546 x 296 x 100	14	98	U1602/258HFW	-
	625	2 x 36W	≤ 1000 (65°)	≤ 19	79	1246 x 308 x 100	15	84	U1607/236HFW	-
50°	300	2 x 18W	≤ 200 (55°)	≤ 16	63	636 x 296 x 100	14	-	U1632/218HFW	-
		2 x 36W	≤ 1000 (55°)	≤ 16	62	1196 x 296 x 100	13	84	U1631/236HFW	-
		2 x 58W	≤ 1000 (55°)	≤ 16	62	1546 x 296 x 100	14	98	U1632/258HFW	-
	625	2 x 36W	≤ 1000 (55°)	≤ 16	64	1246 x 308 x 100	15	84	U1637/236HFW	-

¹"BANDRASTER"

Save up to 75% of energy
see p 236 up to 261



U158 / U159
T8 - Ø 26 mm



U160
T8 - Ø 26 mm



U163
1X T8 - Ø 26 mm

RECESSED
LUMINAIRES



U16, modular - webref. SU1023D1

U1

LINEAR

Table explanation p 427

table explanation p.42										
module	lamp type	$L_{av.}$ - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code		option
Reflector - satin-anodised aluminium - Isolum® baffles										
 T5 - Ø 16 mm										
60°	-	1 x 14W	≤ 1000 (65°)	≤ 22	93	596 x 165 x 93	5	-	U1600/114HFW	-
	-	1 x 24W	≤ 1000 (65°)	≤ 22	95	596 x 165 x 93	5	-	U1600/124HFW	-
	-	1 x 28W	≤ 1000 (65°)	≤ 22	93	1196 x 165 x 93	3	-	U1600/128HFW	-
	-	1 x 35W	≤ 1000 (65°)	≤ 22	93	1496 x 165 x 93	3	-	U1600/135HFW	-
	-	1 x 35W	≤ 1000 (65°)	≤ 22	93	1496 x 196 x 93	4	125	U1606/135HFW	-
	-	1 x 49W	≤ 1000 (65°)	≤ 22	96	1496 x 165 x 93	3	-	U1600/149HFW	-
	-	1 x 49W	≤ 1000 (65°)	≤ 22	96	1496 x 196 x 93	4	125	U1606/149HFW	-
	-	1 x 54W	≤ 1000 (65°)	≤ 22	94	1196 x 165 x 93	3	-	U1600/154HFW	-
	-	2 x 14W	≤ 1000 (65°)	≤ 19	84	596 x 165 x 93	5	-	U1600/214HFW	-
	-	2 x 28W	≤ 1000 (65°)	≤ 19	85	1196 x 165 x 93	3	-	U1600/228HFW	-
	-	2 x 35W	≤ 1000 (65°)	≤ 19	84	1496 x 165 x 93	3	-	U1600/235HFW	-
	-	2 x 35W	≤ 1000 (65°)	≤ 19	84	1496 x 196 x 93	4	125	U1606/235HFW	-
	-	2 x 49W	≤ 1000 (65°)	≤ 22	87	1496 x 165 x 93	3	-	U1600/249HFW	-
	-	2 x 49W	≤ 1000 (65°)	≤ 22	87	1496 x 196 x 93	4	125	U1606/249HFW	-
	-	2 x 54W	≤ 1000 (65°)	≤ 22	86	1196 x 165 x 93	3	-	U1600/254HFW	-
	1800	1 x 35W	≤ 1000 (65°)	≤ 22	93	1720 x 196 x 93	11	125	U1605/135HFW ¹	-
	1800	1 x 49W	≤ 1000 (65°)	≤ 22	96	1720 x 196 x 93	11	125	U1605/149HFW ¹	-
	1800	2 x 35W	≤ 1000 (65°)	≤ 19	84	1720 x 196 x 93	11	125	U1605/235HFW ¹	-
	1800	2 x 49W	≤ 1000 (65°)	≤ 22	87	1720 x 196 x 93	11	125	U1605/249HFW ¹	-
	300	1 x 28W	≤ 1000 (65°)	≤ 22	93	1196 x 296 x 93	10	125	U1601/128HFW	-
	300	1 x 54W	≤ 1000 (65°)	≤ 22	94	1196 x 296 x 93	10	125	U1601/154HFW	-
	300	2 x 28W	≤ 1000 (65°)	≤ 19	85	1196 x 296 x 93	10	125	U1601/228HFW	-
	300	2 x 54W	≤ 1000 (65°)	≤ 22	86	1196 x 296 x 93	10	125	U1601/254HFW	-
Reflector - satin-anodised aluminium - Isolum® baffles										
 T5 - Ø 16 mm										
50°	-	1 x 28W	≤ 200 (55°)	≤ 16	71	1196 x 165 x 93	3	-	U1630/128HFW	-
	-	1 x 35W	≤ 200 (55°)	≤ 16	71	1496 x 165 x 93	3	-	U1630/135HFW	-
	-	1 x 35W	≤ 200 (55°)	≤ 16	71	1496 x 196 x 93	4	125	U1636/135HFW	-
	-	1 x 49W	≤ 200 (55°)	≤ 16	73	1496 x 165 x 93	3	-	U1630/149HFW	-
	-	1 x 49W	≤ 200 (55°)	≤ 16	73	1496 x 196 x 93	4	125	U1636/149HFW	-
	-	1 x 54W	≤ 1000 (55°)	≤ 16	72	1196 x 165 x 93	3	-	U1630/154HFW	-
	1800	1 x 35W	≤ 200 (55°)	≤ 16	71	1720 x 196 x 93	11	125	U1635/135HFW ¹	-
	1800	1 x 49W	≤ 200 (55°)	≤ 16	73	1720 x 196 x 93	11	125	U1635/149HFW ¹	-
	300	1 x 28W	≤ 200 (55°)	≤ 16	71	1196 x 296 x 93	10	125	U1631/128HFW	-
	300	1 x 54W	≤ 1000 (55°)	≤ 16	72	1196 x 296 x 93	10	125	U1631/154HFW	-

¹ 'BANDRASTER'

Options and accessories

	mounting brackets with variable height adjustment, set of 4 pieces	not for 14W- en 18W-versions, 'BANDRASTER' module 1800) or 296 mm wide single-compartment luminaires	U8H1	p 378
		for spring 'T' fix ceiling for U14	U8H2	p 378
	protective grill, including brackets	for 2 lamp luminaires 58W	code + S1	p 378



Save up to 75% of energy
see p 236 up to 261



U160
1x T5 - Ø 16 mm



U160
2x T5 - Ø 16 mm



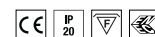
U163
T5 - Ø 16 mm

RECESSED LUMINAIRES



U36 - webref. SU3017C1

U3

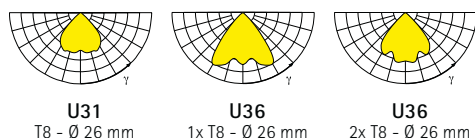


	Housing	Lacquered sheet steel housing with optics In harmony with the linear ceiling system
	Optic	Reflector - high reflection aluminium
	Air extraction	Possible - see table: surface air extraction openings

Dimensional sketches p 384

Table explanation p 427

module	lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option
U31									
Reflector - satin-anodised aluminium - flat baffles									
	 T8 - Ø 26 mm 								
60°	100	1 x 18W	-	≤ 19	61	630 x 88 x 100	20	-	U310/118HFW -
		1 x 36W	-	≤ 19	61	1240 x 88 x 100	20	-	U310/136HFW -
		1 x 58W	-	≤ 19	60	1540 x 88 x 100	20	-	U310/158HFW -
Reflector - satin-anodised aluminium - flat baffles									
	 T8 - Ø 26 mm 								
60°	100/200	2 x 36W	-	≤ 19	62	1240 x 188 x 100	21	-	U310/236HFW -
		2 x 58W	-	≤ 19	61	1540 x 188 x 100	21	-	U310/258HFW -
U36									
Reflector - satin-anodised aluminium - Isolum® baffles									
	 T8 - Ø 26 mm 								
60°	100/200	1 x 36W	≤ 200 (65°)	≤ 16	79	1240 x 188 x 156	22	-	U360/136HFW -
		1 x 58W	≤ 200 (65°)	≤ 16	76	1540 x 188 x 156	22	-	U360/158HFW -
		2 x 36W	≤ 200 (65°)	≤ 19	71	1240 x 188 x 156	22	-	U360/236HFW -
		2 x 58W	≤ 200 (65°)	≤ 19	66	1540 x 188 x 156	22	-	U360/258HFW -





U38, 1 lamp and 2 lamp - webref. SU3017D3

U3

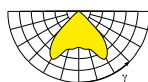
Table explanation p 427

table explanation p 42

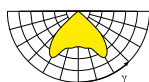
module	lamp type	$L_{av.} - \text{limit}$ cd/m^2	UGR	η %	L x W x H mm	plan N.	air cm^2	order code	 option	
U38										
Reflector - satin-anodised aluminium - Isolum® baffles										
	 T8 - Ø 26 mm									
60°	150C	1 x 36W	≤ 1000 (65°)	≤ 19	78	1246 x 150 x 104	23	-	U3860/136HFW	-
		1 x 58W	≤ 1000 (65°)	≤ 19	75	1546 x 150 x 104	23	-	U3860/158HFW	-
Reflector - satin-anodised aluminium - Isolum® baffles										
	 T8 - Ø 26 mm									
60°	150C	2 x 36W	≤ 1000 (65°)	≤ 19	77	1246 x 300 x 100	24	-	U3860/236HFW	-
		2 x 58W	≤ 1000 (65°)	≤ 19	74	1546 x 300 x 100	24	-	U3860/258HFW	-
Reflector - satin-anodised aluminium - Isolum® baffles										
	 T5 - Ø 16 mm									
60°	150C	1 x 28W	≤ 1000 (65°)	≤ 22	90	1196 x 150 x 104	25	-	U3860/128HFW	-
		1 x 35W	≤ 1000 (65°)	≤ 22	89	1496 x 150 x 104	25	-	U3860/135HFW	-
		1 x 49W	≤ 1000 (65°)	≤ 22	92	1496 x 150 x 104	25	-	U3860/149HFW	-
		1 x 54W	≤ 1000 (65°)	≤ 22	91	1196 x 150 x 104	25	-	U3860/154HFW	-
		2 x 28W	≤ 1000 (65°)	≤ 19	82	1196 x 150 x 104	25	-	U3860/228HFW	-
		2 x 35W	≤ 1000 (65°)	≤ 19	81	1496 x 150 x 104	25	-	U3860/235HFW	-
		2 x 49W	≤ 1000 (65°)	≤ 22	84	1496 x 150 x 104	25	-	U3860/249HFW	-
		2 x 54W	≤ 1000 (65°)	≤ 22	82	1196 x 150 x 104	25	-	U3860/254HFW	-
U39										
Reflector - satin-anodised aluminium - Isolum® baffles										
	 T8 - Ø 26 mm									
60°	225C	1 x 36W	≤ 200 (65°)	≤ 16	78	1246 x 225 x 125	26	-	U3960/136HFW	-
		1 x 58W	≤ 200 (65°)	≤ 16	75	1546 x 225 x 125	26	-	U3960/158HFW	-
		2 x 36W	≤ 200 (65°)	≤ 19	70	1246 x 225 x 125	26	-	U3960/236HFW	-
		2 x 58W	≤ 200 (65°)	≤ 19	66	1546 x 225 x 125	26	-	U3960/258HFW	-



Save up to 75% of energy
see p 236 up to 261



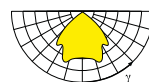
U38
1x T8 - Ø 26 mm



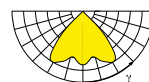
U38
2x T8 - Ø 26 mm



U38
1x T5 - Ø 16 mm



U38
2x T5 - Ø 16 mm

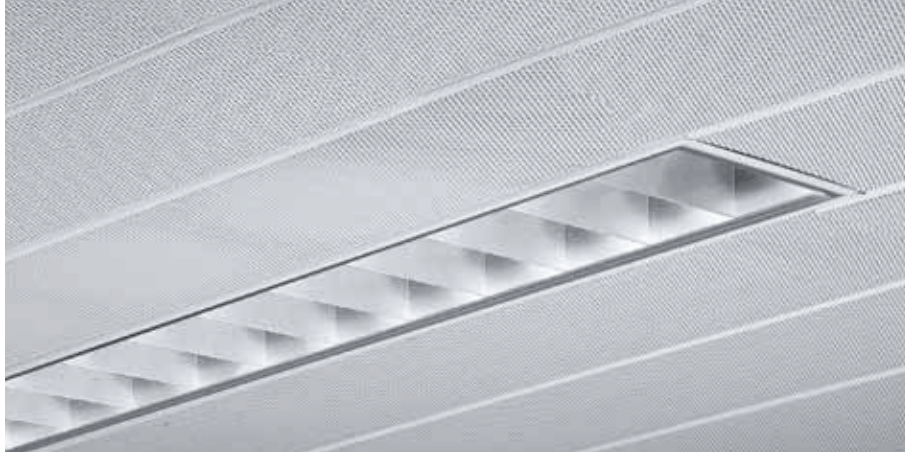


U39
1x T8 - Ø 26 mm



U39
2x T8 - Ø 26 mm





U3 - webref. SU3017E1

U3

Options and accessories

U31 luminaires

Universal system Hunter Douglas
 Brackets: 1 at either end of the luminaire required + 1 per interrupted ceiling grid
 Latches: 2 per luminaire required

bracket, 1 piece	for 1-lamp luminaires	U3H1/1	p 378
	for 2-lamp luminaires	U3H1/2	p 378
latch, 1 piece	for 1-lamp luminaires	U3H2/1	p 378
	for 2-lamp luminaires	U3H2/2	p 378

End supported Hunter Douglas
 2 per luminaire required

bracket, 1 piece	for 1-lamp luminaires	U3H10/1	p 378
	for 2-lamp luminaires	U3H10/2	p 378

U36 luminaires

Universal system Hunter Douglas
 Brackets: 1 at either end of the luminaire required + 1 per interrupted ceiling grid
 Latches: 4 per luminaire required

bracket, 1 piece	U3H5	p 378
latch, 1 piece	U3H6	p 378

U38 luminaires

Universal system Hunter Douglas
 Brackets: 1 at either end of the luminaire required + 1 per interrupted ceiling grid
 Latches: 4 per luminaire required

bracket, 1 piece	for luminaire 150 mm wide	U3H30/1	p 378
	for luminaire 300 mm wide	U3H30/2	p 378
latch, 1 piece		U3H31	p 378

U39 luminaires

Universal system Hunter Douglas
 Brackets: 1 at either end of the luminaire required + 1 per interrupted ceiling grid
 Latches: 4 per luminaire required

bracket, 1 piece	U3H40	p 378
latch, 1 piece	U3H31	p 378

End supported Hunter Douglas
 Latches: 4 per luminaire required

latch, set of 4 pieces	U3H45	p 378
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Save up to 75% of energy
 see p 236 up to 261





U58, 4-lamps - webref. SU5021C1



U5

	Housing	Lacquered sheet steel housing with hinged optics IP65: clear polycarbonate cover plate
	Optic	Reflector - HRSilver™ - high reflection aluminium
	Air extraction	Possible - see table: surface air extraction openings

Dimensional sketches p 384

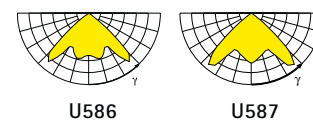
SQUARE

Table explanation p 427

module	lamp type	$L_{av.}$ - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option		
Standard reflector - satin-anodised aluminium - Equilum® baffles											
	 T5 - Ø 16 mm										
65°	600	3 x 14W	≤ 1000 (65°)	≤ 19	99	596 x 596 x 96	30	-	U5861/314HFW	•	
		3 x 14W	≤ 1000 (65°)	≤ 19	99	596 x 596 x 96	36	78	U5862/314HFW	•	
		3 x 24W	-	≤ 22	100	596 x 596 x 96	30	-	U5861/324HFW	•	
		3 x 24W	-	≤ 22	100	596 x 596 x 96	36	78	U5862/324HFW	•	
	625	3 x 14W	≤ 1000 (65°)	≤ 19	99	621 x 621 x 96	30	-	U5867/314HFW	•	
		3 x 24W	-	≤ 22	100	621 x 621 x 96	30	-	U5867/324HFW	•	
Standard reflector - satin-anodised aluminium - Equilum® baffles											
	 T5 - Ø 16 mm										
65°	600	4 x 14W	≤ 1000 (65°)	≤ 19	99	596 x 596 x 100	31	-	U5861/414HFW	•	
		4 x 24W	-	≤ 22	98	596 x 596 x 100	31	-	U5861/424HFW	•	
	625	4 x 14W	≤ 1000 (65°)	≤ 19	99	621 x 621 x 100	31	-	U5867/414HFW	•	
		4 x 24W	-	≤ 22	98	621 x 621 x 100	31	-	U5867/424HFW	•	
Comfort reflector - satin-anodised aluminium - Equilum® baffles											
	 T5 - Ø 16 mm										
65°	600	3 x 14W	≤ 200 (65°)	≤ 19	95	596 x 596 x 96	30	-	U5871/314HFW	•	
		3 x 14W	≤ 200 (65°)	≤ 19	95	596 x 596 x 96	36	78	U5872/314HFW	•	
		3 x 24W	≤ 200 (65°)	≤ 22	96	596 x 596 x 96	30	-	U5871/324HFW	•	
		3 x 24W	≤ 200 (65°)	≤ 22	96	596 x 596 x 96	36	78	U5872/324HFW	•	
		625	3 x 14W	≤ 200 (65°)	≤ 19	95	621 x 621 x 96	30	-	U5877/314HFW	•
			3 x 24W	≤ 200 (65°)	≤ 22	96	621 x 621 x 96	30	-	U5877/324HFW	•



Save up to 75% of energy
see p 236 up to 261



U586

U587



U5 IP65 - webref. SU5030B1

U5

SQUARE

Table explanation p 427

table explanation p. 42										
module		lamp type	$L_{av.}$ - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
		 T5 - Ø 16 mm								
65°	600	4 x 14W	≤ 200 (65°)	≤ 19	95	596 x 596 x 100	31	-	U5871/414HFW	•
		4 x 24W	≤ 200 (65°)	≤ 22	94	596 x 596 x 100	31	-	U5871/424HFW	•
	625	4 x 14W	≤ 200 (65°)	≤ 19	95	621 x 621 x 100	31	-	U5877/414HFW	•
		4 x 24W	≤ 200 (65°)	≤ 22	94	621 x 621 x 100	31	-	U5877/424HFW	•
CAD reflector - satin-anodised aluminium - Equilum® baffles										
		 T5 - Ø 16 mm								
55°	600	3 x 14W	≤ 1000 (55°)	≤ 16	85	596 x 596 x 96	30	-	U5891/314HFW	•
		3 x 14W	≤ 1000 (55°)	≤ 16	85	596 x 596 x 96	36	78	U5892/314HFW	•
		3 x 24W	≤ 1000 (55°)	≤ 16	86	596 x 596 x 96	30	-	U5891/324HFW	•
		3 x 24W	≤ 1000 (55°)	≤ 16	86	596 x 596 x 96	36	78	U5892/324HFW	•
	625	3 x 14W	≤ 1000 (55°)	≤ 16	85	621 x 621 x 96	30	-	U5897/314HFW	•
		3 x 24W	≤ 1000 (55°)	≤ 16	86	621 x 621 x 96	30	-	U5897/324HFW	•
CAD reflector - satin-anodised aluminium - Equilum® baffles										
		 T5 - Ø 16 mm								
55°	600	4 x 14W	≤ 1000 (55°)	≤ 16	85	596 x 596 x 100	31	-	U5891/414HFW	•
		4 x 24W	≤ 1000 (55°)	≤ 16	84	596 x 596 x 100	31	-	U5891/424HFW	•
	625	4 x 14W	≤ 1000 (55°)	≤ 16	85	621 x 621 x 100	31	-	U5897/414HFW	•
		4 x 24W	≤ 1000 (55°)	≤ 16	84	621 x 621 x 100	31	-	U5897/424HFW	•

SQUARE - IP65

module	lamp type	$L_{av.} - \text{limit}$ cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option	
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
65°	600	3 x 14W	≤ 200 (65°)	≤ 19	93	596 x 596 x 100	38	-	U5871/314HFWT0 ¹	•
	625	3 x 14W	≤ 200 (65°)	≤ 19	93	621 x 621 x 100	38	-	U5877/314HFWT0 ¹	•

¹ wafer trim


U587



U589



U587 IP65



U58, non modular – webref. SU5020A4

U5

LINEAR

Table explanation p 427

module	lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option		
Reflector - satin-anodised aluminium - Equilum® baffles											
	 T5 - Ø 16 mm										
65°	1 x 35W	≤ 1000 (65°)	≤ 19	95	1496 x 175 x 96	37	-	U5850/135HFW	•		
	1 x 35W	≤ 1000 (65°)	≤ 19	95	1496 x 189 x 96	35	125	U5856/135HFW	•		
	1800 ¹ 1 x 35W	≤ 1000 (65°)	≤ 19	95	1720 x 196 x 96	34	125	U5855/135HFW	•		
Standard reflector - satin-anodised aluminium - Equilum® baffles											
	 T5 - Ø 16 mm										
65°	-	1 x 14W	≤ 1000 (65°)	≤ 19	87	596 x 175 x 96	37	-	U5860/114HFW	-	
		1 x 24W	-	≤ 22	95	596 x 175 x 96	37	-	U5860/124HFW	-	
		1 x 28W	≤ 1000 (65°)	≤ 19	97	1196 x 175 x 96	37	-	U5860/128HFW	•	
		1 x 28W	≤ 1000 (65°)	≤ 19	97	1196 x 189 x 96	35	125	U5866/128HFW	•	
		1 x 35W	≤ 1000 (65°)	≤ 19	94	1496 x 175 x 96	37	-	U5860/135HFW	•	
		1 x 35W	≤ 1000 (65°)	≤ 19	94	1496 x 189 x 96	35	125	U5866/135HFW	•	
		1 x 49W	-	≤ 22	96	1496 x 175 x 96	37	-	U5860/149HFW	•	
		1 x 49W	-	≤ 22	96	1496 x 189 x 96	35	125	U5866/149HFW	•	
		1 x 54W	-	≤ 22	95	1196 x 175 x 96	37	-	U5860/154HFW	•	
		1 x 54W	-	≤ 22	95	1196 x 189 x 96	35	125	U5866/154HFW	•	
		2 x 14W	≤ 1000 (65°)	≤ 19	80	596 x 175 x 96	37	-	U5860/214HFW	-	
		2 x 24W	-	≤ 22	82	596 x 175 x 96	37	-	U5860/224HFW	-	
		2 x 28W	-	≤ 19	86	1196 x 175 x 96	37	-	U5860/228HFW	•	
		2 x 28W	-	≤ 19	86	1196 x 189 x 96	35	125	U5866/228HFW	•	
		2 x 35W	≤ 1000 (65°)	≤ 19	78	1496 x 175 x 96	37	-	U5860/235HFW	•	
		2 x 35W	≤ 1000 (65°)	≤ 19	78	1496 x 189 x 96	35	125	U5866/235HFW	•	
		2 x 49W	-	≤ 22	82	1496 x 175 x 96	37	-	U5860/249HFW	•	
		2 x 49W	-	≤ 22	82	1496 x 189 x 96	35	125	U5866/249HFW	•	
		2 x 54W	-	≤ 22	81	1196 x 175 x 96	37	-	U5860/254HFW	•	
		2 x 54W	-	≤ 22	81	1196 x 189 x 96	35	125	U5866/254HFW	•	
	1800		1 x 35W	≤ 1000 (65°)	≤ 19	94	1720 x 196 x 96	34	125	U5865/135HFW ¹	•
			1 x 49W	-	≤ 22	96	1720 x 196 x 96	34	125	U5865/149HFW ¹	•
			2 x 35W	≤ 1000 (65°)	≤ 19	78	1720 x 196 x 96	34	125	U5865/235HFW ¹	•
			2 x 49W	-	≤ 22	82	1720 x 196 x 96	34	125	U5865/249HFW ¹	•
	300		1 x 28W	≤ 1000 (65°)	≤ 19	97	1196 x 296 x 96	32	-	U5861/128HFW	•
			1 x 54W	-	≤ 22	95	1196 x 296 x 96	32	-	U5861/154HFW	•
			2 x 28W	-	≤ 19	86	1196 x 296 x 96	32	-	U5861/228HFW	•
			2 x 54W	-	≤ 22	81	1196 x 296 x 96	32	-	U5861/254HFW	•
625		1 x 28W	≤ 1000 (65°)	≤ 19	97	1246 x 308 x 96	33	-	U5867/128HFW	•	
		1 x 54W	-	≤ 22	95	1246 x 308 x 96	33	-	U5867/154HFW	•	
		2 x 28W	-	≤ 19	86	1246 x 308 x 96	33	-	U5867/228HFW	•	
		2 x 54W	-	≤ 22	81	1246 x 308 x 96	33	-	U5867/254HFW	•	

¹ 'BANDRASTER'

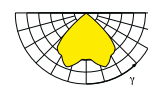
Save up to 75% of energy
see p 236 up to 261



U585
1x T5 - Ø 16 mm



U586
1x T5 - Ø 16 mm



U586
2x T5 - Ø 16 mm





U5, modular - webref. SU5020C1

U5

LINEAR

Table explanation p 427

module	lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option	
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
65°	-	1 x 14W	≤ 200 (65°)	19	83	596 x 175 x 96	37	-	U5870/114HFW	-
	-	1 x 24W	≤ 200 (65°)	22	90	596 x 175 x 96	37	-	U5870/124HFW	-
	-	1 x 28W	≤ 200 (65°)	19	92	1196 x 175 x 96	37	-	U5870/128HFW	•
	-	1 x 28W	≤ 200 (65°)	19	92	1196 x 189 x 96	35	125	U5876/128HFW	•
	-	1 x 35W	≤ 200 (65°)	19	89	1496 x 175 x 96	37	-	U5870/135HFW	•
	-	1 x 35W	≤ 200 (65°)	19	89	1496 x 189 x 96	35	125	U5876/135HFW	•
	-	1 x 49W	≤ 200 (65°)	19	91	1496 x 175 x 96	37	-	U5870/149HFW	•
	-	1 x 49W	≤ 200 (65°)	19	91	1496 x 189 x 96	35	125	U5876/149HFW	•
	-	1 x 54W	≤ 1000 (65°)	22	90	1196 x 175 x 96	37	-	U5870/154HFW	•
	-	1 x 54W	≤ 1000 (65°)	22	90	1196 x 189 x 96	35	125	U5876/154HFW	•
	-	2 x 14W	≤ 200 (65°)	19	76	596 x 175 x 96	37	-	U5870/214HFW	-
	-	2 x 24W	≤ 1000 (65°)	19	78	596 x 175 x 96	37	-	U5870/224HFW	-
	-	2 x 28W	≤ 1000 (65°)	19	81	1196 x 175 x 96	37	-	U5870/228HFW	•
	-	2 x 28W	≤ 1000 (65°)	19	81	1196 x 189 x 96	35	125	U5876/228HFW	•
	-	2 x 35W	≤ 200 (65°)	19	74	1496 x 175 x 96	37	-	U5870/235HFW	•
	-	2 x 35W	≤ 200 (65°)	19	74	1496 x 189 x 96	35	125	U5876/235HFW	•
	-	2 x 49W	≤ 1000 (65°)	19	77	1496 x 175 x 96	37	-	U5870/249HFW	•
	-	2 x 49W	≤ 1000 (65°)	19	77	1496 x 196 x 96	35	125	U5876/249HFW	•
	-	2 x 54W	≤ 1000 (65°)	22	77	1196 x 175 x 96	37	-	U5870/254HFW	•
	-	2 x 54W	≤ 1000 (65°)	22	77	1196 x 196 x 96	35	125	U5876/254HFW	•
	1800	1 x 35W	≤ 200 (65°)	19	89	1720 x 196 x 96	34	125	U5875/135HFW ¹	•
	1800	1 x 49W	≤ 200 (65°)	19	91	1720 x 196 x 96	34	125	U5875/149HFW ¹	•
	1800	2 x 35W	≤ 200 (65°)	19	74	1720 x 196 x 96	34	125	U5875/235HFW ¹	•
	1800	2 x 49W	≤ 1000 (65°)	19	77	1720 x 196 x 96	34	125	U5875/249HFW ¹	•
	300	1 x 28W	≤ 200 (65°)	19	92	1196 x 296 x 96	32	-	U5871/128HFW	•
	300	1 x 54W	≤ 1000 (65°)	22	90	1196 x 296 x 96	32	-	U5871/154HFW	•
	300	2 x 28W	≤ 1000 (65°)	19	81	1196 x 296 x 96	32	-	U5871/228HFW	•
	300	2 x 54W	≤ 1000 (65°)	22	77	1196 x 296 x 96	32	-	U5871/254HFW	•
	625	1 x 28W	≤ 200 (65°)	19	92	1246 x 308 x 96	33	-	U5877/128HFW	•
	625	1 x 54W	≤ 1000 (65°)	22	90	1246 x 308 x 96	33	-	U5877/154HFW	•
	625	2 x 28W	≤ 1000 (65°)	19	81	1246 x 308 x 96	33	-	U5877/228HFW	•
	625	2 x 54W	≤ 1000 (65°)	22	77	1246 x 308 x 96	33	-	U5877/254HFW	•
CAD reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
55°	-	1 x 14W	≤ 200 (55°)	16	75	596 x 175 x 96	37	-	U5890/114HFW	-
	-	1 x 24W	≤ 1000 (55°)	16	81	596 x 175 x 96	37	-	U5890/124HFW	-
	-	1 x 28W	≤ 1000 (55°)	16	83	1196 x 175 x 96	37	-	U5890/128HFW	•
	-	1 x 28W	≤ 1000 (55°)	16	83	1196 x 189 x 96	35	125	U5896/128HFW	•
	-	1 x 35W	≤ 1000 (55°)	16	80	1496 x 175 x 96	37	-	U5890/135HFW	•
	-	1 x 35W	≤ 1000 (55°)	16	80	1496 x 189 x 96	35	125	U5896/135HFW	•
	-	1 x 49W	≤ 1000 (55°)	16	82	1496 x 175 x 96	37	-	U5890/149HFW	•
	-	1 x 49W	≤ 1000 (55°)	16	82	1496 x 189 x 96	35	125	U5896/149HFW	•
	-	1 x 49W	≤ 1000 (55°)	16	82	1496 x 189 x 96	35	125	U5896/149HFW	•

1. BANDRAST

¹ 'BANDRASTER'

Save up to 75% of energy
see p 236 up to 261



RECESSED LUMINAIRES



U5, IP65 - webref. SU5030B1

U5

LINEAR

Table explanation p 427

module	lamp type	$L_{av.} - \text{limit}$ cd/m^2	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	option
CAD reflector - satin-anodised aluminium - Equilum® baffles									
IP 20	T5 - Ø 16 mm								
1800	1 x 54W	≤ 1000 (55°)	16	81	1196 x 175 x 96	37	-	U5890/154HFW	•
	1 x 54W	≤ 1000 (55°)	16	81	1196 x 189 x 96	35	125	U5896/154HFW	•
	2 x 14W	≤ 1000 (55°)	16	70	596 x 175 x 96	37	-	U5890/214HFW	-
	2 x 24W	≤ 1000 (55°)	16	72	596 x 175 x 96	37	-	U5890/224HFW	-
	2 x 28W	≤ 1000 (55°)	16	75	1196 x 175 x 96	37	-	U5890/228HFW	•
	2 x 28W	≤ 1000 (55°)	16	75	1196 x 189 x 96	35	125	U5896/228HFW	•
	2 x 35W	≤ 1000 (55°)	16	68	1496 x 175 x 96	37	-	U5890/235HFW	•
	2 x 35W	≤ 1000 (55°)	16	68	1496 x 189 x 96	35	125	U5896/235HFW	•
	2 x 49W	≤ 1000 (55°)	16	71	1496 x 175 x 96	37	-	U5890/249HFW	•
	2 x 49W	≤ 1000 (55°)	16	71	1496 x 189 x 96	35	125	U5896/249HFW	•
	2 x 54W	≤ 1000 (55°)	16	71	1196 x 175 x 96	37	-	U5890/254HFW	•
	2 x 54W	≤ 1000 (55°)	16	71	1196 x 189 x 96	35	125	U5896/254HFW	•
	1 x 35W	≤ 1000 (55°)	16	80	1720 x 196 x 96	34	125	U5895/135HFW ¹	•
	1 x 49W	≤ 1000 (55°)	16	82	1720 x 196 x 96	34	125	U5895/149HFW ¹	•
	2 x 35W	≤ 1000 (55°)	16	68	1720 x 196 x 96	34	125	U5895/235HFW ¹	•
	2 x 49W	≤ 1000 (55°)	16	71	1720 x 196 x 96	34	125	U5895/249HFW ¹	•
300	1 x 28W	≤ 1000 (55°)	16	83	1196 x 296 x 96	32	-	U5891/128HFW	•
	1 x 54W	≤ 1000 (55°)	16	81	1196 x 296 x 96	32	-	U5891/154HFW	•
	2 x 28W	≤ 1000 (55°)	16	75	1196 x 296 x 96	32	-	U5891/228HFW	•
	2 x 54W	≤ 1000 (55°)	16	71	1196 x 296 x 96	32	-	U5891/254HFW	•
625	1 x 28W	≤ 1000 (55°)	16	83	1246 x 308 x 96	33	-	U5897/128HFW	•
	1 x 54W	≤ 1000 (55°)	16	81	1246 x 308 x 96	33	-	U5897/154HFW	•
	2 x 28W	≤ 1000 (55°)	16	75	1246 x 308 x 96	33	-	U5897/228HFW	•
	2 x 54W	≤ 1000 (55°)	16	71	1246 x 308 x 96	33	-	U5897/254HFW	•

¹ 'BANDRASTER'

LINEAR - IP65

Table explanation p 427

module	lamp type	$L_{av.}$ - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	option	
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
65°	-	1 x 35W	≤ 200 (65°)	≤ 19	88	1496 x 296 x 96	39	-	U5870/135HFWT0 ²	•
	300	2 x 28W	≤ 1000 (65°)	≤ 19	84	1196 x 296 x 100	39	-	U5871/228HFWT0 ²	•
	625	2 x 28W	≤ 1000 (65°)	≤ 19	84	1246 x 308 x 100	39	-	U5877/228HFWT0 ²	•

¹ wafer trim

Options and accessories

SQUARE and LINEAR:

mounting brackets with variable height adjustment, set of 4 pieces (not for IP65)

U8H1

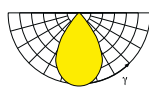
p 378

mounting brackets for IP65 luminaires

Consult ETAP



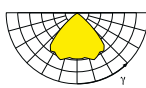
U589
1x T5 - Ø 16 mm



U589
2x T5 - Ø 16 mm



U587 IP65
1x T5 - Ø 16 mm



U587 IP65
2x T5 - Ø 16 mm



UJ201 - webref. SUJ017A1



UJ201



Housing

Lacquered sheet steel housing with hinged optics

Optic

Reflector - high reflection aluminium

Dimensional sketches p 384

Table explanation p 427

module	lamp type	$L_{av.}$ - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option
Reflector - satin-anodised aluminium - SLL baffles									
60°	-  TC-S 2 x 11W	 1000 (65°)	19	66	300 x 300 x 109	40	-	UJ201/211HFW	-

Options and accessories

mounting brackets with variable height adjustment, set of 4 pieces	U8H1	p 378
mounting brackets with variable height adjustment, set of 4 pieces for sprint 'T' fix	U8H2	p 378
mounting profile, set of 2 pieces	UZH57-1	p 378



Save up to 75% of energy
see p 236 up to 261



RECESSED LUMINAIRES

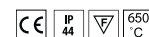


UJ403 - webref. SUJ019A1



UJ403, cover plate - webref. SUJ019A2

UJ403



Housing
Lacquered sheet steel housing with hinged optics
Acrylic cover plate

Optic
Reflector - high reflection aluminium

Dimensional sketches p 384

Table explanation p 427

table explanation p. 42											
module	lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code		option	
Reflector - satin-anodised aluminium - SLL baffles											
	 T8 - Ø 26 mm										
60°	300	2 x 36W		≤ 1000 (65°)	≤ 19	64	1196 x 296 x 115	50	-	UJ403/236BHF	-





UM10 - webref. SUM01A13



UM10 - webref. SUM11A11



UM1

	Housing	Lacquered sheet steel housing with hinged optics Wieland connection
	Optic	Diffuser: MesoOptics™ for high efficiency and light distribution UM18: with central satin-anodised aluminium reflector
	Air extraction	Possible - see table: surface air extraction openings

Dimensional sketches p. 384

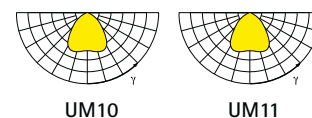
SQUARE

Table explanation p. 427

module	lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option
Diffuser - acrylic / MesoOptics™film									
	T5 - Ø 16 mm								
600	2 x 24W	-	22	82	596 x 596 x 110	60	-	UM101/224HFW	-
	2 x 24W	-	22	77	596 x 596 x 110	62	98	UM102/224HFW	-
600SAS ¹	2 x 24W	-	19	82	584 x 584 x 110	60	-	UM105/224HFW	-
625	2 x 24W	-	19	82	621 x 621 x 110	60	-	UM107/224HFW	-
Diffuser - polycarbonate / MesoOptics™film									
	T5 - Ø 16 mm								
600	2 x 24W	-	19	77	596 x 596 x 110	60	-	UM101/224HFWT0	•
	2 x 24W	-	22	75	596 x 596 x 110	62	98	UM102/224HFWT0	•
600SAS ¹	2 x 24W	-	19	77	584 x 584 x 110	60	-	UM105/224HFWT0	•
625	2 x 24W	-	19	77	621 x 621 x 110	60	-	UM107/224HFWT0	•
Diffuser - acrylic / MesoOptics™film									
	T5 - Ø 16 mm								
600	2 x 24W	-	19	80	596 x 596 x 110	60	-	UM111/224HFW	-
600SAS ¹	2 x 24W	-	19	80	584 x 584 x 110	60	-	UM115/224HFW	-
625	2 x 24W	-	19	80	621 x 621 x 110	60	-	UM117/224HFW	-
Diffuser - polycarbonate / MesoOptics™film									
	T5 - Ø 16 mm								
600	2 x 24W	-	19	75	596 x 596 x 110	60	-	UM111/224HFWT0	•
600SAS ¹	2 x 24W	-	19	75	584 x 584 x 110	60	-	UM115/224HFWT0	•
625	2 x 24W	-	19	75	621 x 621 x 110	60	-	UM117/224HFWT0	•

¹ 600SAS: for System 130 with Alugrid 15 profiles

Save up to 75% of energy
see p. 236 up to 261



UM10

UM11

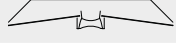
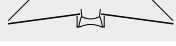




UM18 – webref. SUM11A22

SQUARE

Table explanation p 427

module	lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option
Diffuser - acrylic / MesoOptics™film / reflector in satin-anodised aluminium									
	 T5 - Ø 16 mm								
600	2 x 24W	≤ 1000 (65°)	≤ 16	76	596 x 596 x 110	60	-	UM181/224HFW	-
	2 x 24W	≤ 1000 (65°)	≤ 16	76	596 x 596 x 110	62	98	UM182/224HFW	-
600SAS ¹	2 x 24W	≤ 1000 (65°)	≤ 16	76	584 x 584 x 110	60	-	UM185/224HFW	-
625	2 x 24W	≤ 1000 (65°)	≤ 16	76	621 x 621 x 110	60	-	UM187/224HFW	-
Diffuser - polycarbonate / MesoOptics™film / reflector in satin-anodised aluminium									
	 T5 - Ø 16 mm								
600	2 x 24W	≤ 1000 (65°)	≤ 16	72	596 x 596 x 110	60	-	UM181/224HFWTO	•
	2 x 24W	≤ 1000 (65°)	≤ 16	72	596 x 596 x 110	62	98	UM182/224HFWTO	•
600SAS ¹	2 x 24W	≤ 1000 (65°)	≤ 16	72	584 x 584 x 110	60	-	UM185/224HFWTO	•
625	2 x 24W	≤ 1000 (65°)	≤ 16	72	621 x 621 x 110	60	-	UM187/224HFWTO	•

¹ 600SAS: for System 130 with Alugrid 15 profiles

Save up to 75% of energy
see p 236 up to 261



UM18

RECESSED
LUMINAIRES



YORK HOUSE, LONDON - UNITED KINGDOM

webref. SUM04H1



UM10 with wafer trim - webref. SUM12A12

UM1

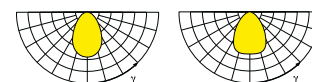
LINEAR

Table explanation p 427

module	lamp type	L_{av} - limit cd/m^2	UGR	η %	L x W x H mm	plan N.	air cm^2	order code	option
Diffuser - acrylic / MesoOptics™film									
650 °C	T5 - Ø 16 mm								
-	2 x 28W	-	≤ 22	72	1202 x 302 x 93	63	-	UM109/228HFW ¹	-
-	2 x 54W	-	≤ 22	59	1202 x 302 x 93	63	-	UM109/254HFW ¹	-
300	1 x 28W	-	≤ 19	75	1196 x 296 x 93	61	-	UM101/128HFW	-
-	1 x 54W	-	≤ 19	75	1196 x 296 x 93	61	-	UM101/154HFW	-
-	2 x 28W	-	≤ 22	72	1196 x 296 x 93	61	-	UM101/228HFW	-
-	2 x 54W	-	≤ 22	59	1196 x 296 x 93	61	-	UM101/254HFW	-
625	2 x 28W	-	≤ 22	72	1246 x 308 x 93	61	-	UM107/228HFW	-
-	2 x 54W	-	≤ 22	59	1246 x 308 x 93	61	-	UM107/254HFW	-
-	1 x 28W	-	≤ 19	75	1246 x 308 x 93	61	-	UM107/128HFW	-
-	1 x 54W	-	≤ 19	75	1246 x 308 x 93	61	-	UM107/154HFW	-
Diffuser - polycarbonate / MesoOptics™film									
850 °C	T5 - Ø 16 mm								
300	1 x 28W	-	≤ 19	67	1196 x 296 x 93	61	-	UM101/128HFWT0	•
-	1 x 54W	-	≤ 19	68	1196 x 296 x 93	61	-	UM101/154HFWT0	•
-	2 x 28W	-	≤ 19	65	1196 x 296 x 93	61	-	UM101/228HFWT0	•
-	2 x 54W	-	≤ 22	53	1196 x 296 x 93	61	-	UM101/254HFWT0	•
625	1 x 28W	-	≤ 19	67	1246 x 308 x 93	61	-	UM107/128HFWT0	•
-	1 x 54W	-	≤ 19	68	1246 x 308 x 93	61	-	UM107/154HFWT0	•
-	2 x 28W	-	≤ 19	65	1246 x 308 x 93	61	-	UM107/228HFWT0	•
-	2 x 54W	-	≤ 22	53	1246 x 308 x 93	61	-	UM107/254HFWT0	•
Diffuser - acrylic / MesoOptics™film									
650 °C	T5 - Ø 16 mm								
300	1 x 28W	-	≤ 19	77	1196 x 296 x 93	61	-	UM111/128HFW	-
-	1 x 54W	-	≤ 19	71	1196 x 296 x 93	61	-	UM111/154HFW	-
-	2 x 28W	-	≤ 22	70	1196 x 296 x 93	61	-	UM111/228HFW	-
-	2 x 54W	-	≤ 22	60	1196 x 296 x 93	61	-	UM111/254HFW	-
625	1 x 28W	-	≤ 19	77	1246 x 308 x 93	61	-	UM117/128HFW	-
-	1 x 54W	-	≤ 19	71	1246 x 308 x 93	61	-	UM117/154HFW	-
-	2 x 28W	-	≤ 22	70	1246 x 308 x 93	61	-	UM117/228HFW	-
-	2 x 54W	-	≤ 22	60	1246 x 308 x 93	61	-	UM117/254HFW	-
Diffuser - polycarbonate / MesoOptics™film									
850 °C	T5 - Ø 16 mm								
300	1 x 28W	-	≤ 19	69	1196 x 296 x 93	61	-	UM111/128HFWT0	•
-	1 x 54W	-	≤ 19	64	1196 x 296 x 93	61	-	UM111/154HFWT0	•
-	2 x 28W	-	≤ 22	63	1196 x 296 x 93	61	-	UM111/228HFWT0	•
-	2 x 54W	-	≤ 22	55	1196 x 296 x 93	61	-	UM111/254HFWT0	•
625	1 x 28W	-	≤ 19	69	1246 x 308 x 93	61	-	UM117/128HFWT0	•
-	1 x 54W	-	≤ 19	64	1246 x 308 x 93	61	-	UM117/154HFWT0	•
-	2 x 28W	-	≤ 22	63	1246 x 308 x 93	61	-	UM117/228HFWT0	•
-	2 x 54W	-	≤ 22	55	1246 x 308 x 93	61	-	UM117/254HFWT0	•

¹ wafer trim

Save up to 75% of energy
see p 236 up to 261



UM10

UM11

RECESSED LUMINAIRES



UM18 - webref. SUM12A21

UM1

LINEAR

Table explanation p 427

module	lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	option
Diffuser - acrylic / MesoOptics™film / reflector in satin-anodised aluminium									
300	1 x 28W	≤ 1000 (65°)	≤ 16	66	1196 x 296 x 93	61	-	UM181/128HFW	-
	1 x 54W	≤ 1000 (65°)	≤ 16	62	1196 x 296 x 93	61	-	UM181/154HFW	-
	2 x 28W	-	≤ 16	60	1196 x 296 x 93	61	-	UM181/228HFW	-
	2 x 54W	-	≤ 19	49	1196 x 296 x 93	61	-	UM181/254HFW	-
625	1 x 28W	≤ 1000 (65°)	≤ 16	66	1246 x 308 x 93	61	-	UM187/128HFW	-
	1 x 54W	≤ 1000 (65°)	≤ 16	62	1246 x 308 x 93	61	-	UM187/154HFW	-
	2 x 28W	-	≤ 16	60	1246 x 308 x 93	61	-	UM187/228HFW	-
	2 x 54W	-	≤ 19	49	1246 x 308 x 93	61	-	UM187/254HFW	-
Diffuser - polycarbonate / MesoOptics™film / reflector in satin-anodised aluminium									
300	1 x 28W	≤ 1000 (65°)	≤ 16	63	1196 x 296 x 93	61	-	UM181/128HFWT0	•
	1 x 54W	≤ 1000 (65°)	≤ 16	59	1196 x 296 x 93	61	-	UM181/154HFWT0	•
	2 x 28W	-	≤ 16	57	1196 x 296 x 93	61	-	UM181/228HFWT0	•
	2 x 54W	-	≤ 19	47	1196 x 296 x 93	61	-	UM181/254HFWT0	•
625	1 x 28W	≤ 1000 (65°)	≤ 16	63	1246 x 308 x 93	61	-	UM187/128HFWT0	•
	1 x 54W	≤ 1000 (65°)	≤ 16	59	1246 x 308 x 93	61	-	UM187/154HFWT0	•
	2 x 28W	-	≤ 16	57	1246 x 308 x 93	61	-	UM187/228HFWT0	•
	2 x 54W	-	≤ 19	47	1246 x 308 x 93	61	-	UM187/254HFWT0	•

Options and accessories

SQUARE and LINEAR:

mounting brackets with variable height adjustment, set of 4 pieces

U8H1

p 378



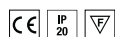
UM18



webref. SUM22A1



webref. SUM21A1



UM2

	Housing	White lacquered housing with hinged optics
	Optic	Diffuser - MesoOptics™

Dimensional sketches p 384

SQUARE

Table explanation p 427

module	lamp type	$L_{av.} - \text{limit}$ cd/m^2	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - MesoOptics™ film								
	 T5 - Ø 16 mm							
600	3 x 14W	-	≤ 19	84	596 x 596 x 100	64	UM221/314HFW	-
625	3 x 14W	-	≤ 19	84	621 x 621 x 100	64	UM227/314HFW	-
Diffuser - MesoOptics™ film								
	 T5 - Ø 16 mm							
600	4 x 14W	-	≤ 22	83	596 x 596 x 100	64	UM221/414HFW	-
625	4 x 14W	-	≤ 22	83	621 x 621 x 100	64	UM227/414HFW	-

LINEAR

Table explanation p 427

module	lamptype	$L_{av.} - \text{limit}$ cd/m^2	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - MesoOptics™ film								
	 T5 - Ø 16 mm							
-	1 x 35W	-	≤ 19	90	1496 x 254 x 100	65	UM220/135HFW	-
Diffuser - MesoOptics™ film								
	 T5 - Ø 16 mm							
300	2 x 28W	-	≤ 22	88	1196 x 296 x 100	65	UM221/228HFW	-
308	2 x 28W	-	≤ 22	88	1246 x 308 x 100	65	UM227/228HFW	-



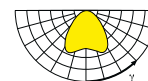
Save up to 75% of energy
see p 236 up to 261



UM2
2x T5 - Ø 16 mm



UM2
3x T5 - Ø 16 mm



UM2
4x T5 - Ø 16 mm



UT18, 3 lamp - webref. SUT1013B

UT1



air extraction

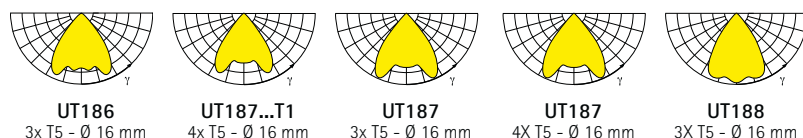
	Housing	Lacquered sheet steel housing with hinged optics
	Optic	Reflector - HRSilver™ - high reflection aluminium Diffuser - HaloOptics® for high efficiency
	Air extraction	Possible - see table: surface air extraction openings

Dimensional sketches p 384

SQUARE

Table explanation p 427

Table explanation p. 10										
module	lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option	
Standard reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
65°	600	3 x 14W	≤ 1000 (65°)	≤ 19	92	596 x 596 x 60	75	-	UT1861/314HFW	-
		3 x 24W	≤ 1000 (65°)	≤ 22	92	596 x 596 x 60	75	-	UT1861/324HFW	-
	625	3 x 14W	≤ 1000 (65°)	≤ 19	92	621 x 621 x 60	75	-	UT1867/314HFW	-
		3 x 24W	≤ 1000 (65°)	≤ 22	92	621 x 621 x 60	75	-	UT1867/324HFW	-
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
65°	600	4 x 14W	≤ 200 (65°)	≤ 19	86	596 x 596 x 60	75	-	UT1871/414HFWT1 ¹	-
		3 x 14W	≤ 200 (65°)	≤ 19	89	596 x 596 x 60	75	-	UT1871/314HFW	-
		3 x 24W	≤ 200 (65°)	≤ 19	89	596 x 596 x 60	75	-	UT1871/324HFW	-
	625	3 x 14W	≤ 200 (65°)	≤ 19	89	621 x 621 x 60	75	-	UT1877/314HFW	-
		3 x 24W	≤ 200 (65°)	≤ 19	89	621 x 621 x 60	75	-	UT1877/324HFW	-
		4 x 14W	≤ 200 (65°)	≤ 19	86	621 x 621 x 60	75	-	UT1877/414HFWT1 ¹	-
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
65°	600	4 x 24W	≤ 200 (65°)	≤ 19	89	596 x 596 x 60	76	-	UT1871/424HFW	-
		4 x 14W	≤ 200 (65°)	≤ 19	89	596 x 596 x 60	76	-	UT1871/414HFW	-
	625	4 x 14W	≤ 200 (65°)	≤ 19	89	621 x 621 x 60	76	-	UT1877/414HFW	-
		4 x 24W	≤ 200 (65°)	≤ 19	89	621 x 621 x 60	76	-	UT1877/424HFW	-
CAD reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
55°	600	3 x 14W	≤ 1000 (55°)	≤ 16	83	596 x 596 x 60	75	-	UT1881/314HFW	-
		3 x 24W	≤ 1000 (55°)	≤ 16	83	596 x 596 x 60	75	-	UT1881/324HFW	-
	625	3 x 14W	≤ 200 (65°)	≤ 16	85	621 x 621 x 60	75	-	UT1887/314HFW	-
		3 x 24W	≤ 200 (65°)	≤ 19	85	621 x 621 x 60	75	-	UT1887/324HFW	-

¹ wafer trim




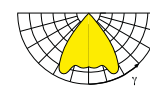
UT18, wafer trim - webref. SUT10141

UT1

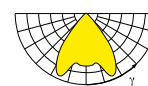
LINEAR

Table explanation p 427

Table Explanation p. 42										
module	lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code		option
Standard reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
65°	-	1 x 14W	≤ 1000 (65°)	≤ 19	92	596 x 117 x 93	70	-	UT1860/114HFW	-
		1 x 24W	≤ 1000 (65°)	≤ 22	92	596 x 117 x 93	70	-	UT1860/124HFW	-
		1 x 28W	≤ 1000 (65°)	≤ 19	89	1196 x 117 x 93	70	-	UT1860/128HFW	-
		1 x 35W	≤ 1000 (65°)	≤ 19	89	1496 x 117 x 93	70	-	UT1860/135HFW	-
		1 x 35W	≤ 1000 (65°)	≤ 19	89	1496 x 146 x 93	78	125	UT1866/135HFW	-
		1 x 35W	≤ 1000 (65°)	≤ 19	89	1501 x 123 x 93	79	-	UT1869/135HFW ²	-
		1 x 49W	≤ 1000 (65°)	≤ 22	89	1496 x 117 x 93	70	-	UT1860/149HFW	-
		1 x 49W	≤ 1000 (65°)	≤ 22	89	1496 x 146 x 93	78	125	UT1866/149HFW	-
		1 x 49W	≤ 1000 (65°)	≤ 22	89	1501 x 123 x 93	79	-	UT1869/149HFW ²	-
		1 x 54W	-	≤ 22	89	1196 x 117 x 93	70	-	UT1860/154HFW	-
1800	1 x 35W	≤ 1000 (65°)	≤ 22	89	1720 x 146 x 93	74	125	UT1865/135HFW ¹	-	
	1 x 49W	≤ 1000 (65°)	≤ 22	89	1720 x 146 x 93	74	125	UT1865/149HFW ¹	-	
Standard reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
65°	300	2 x 28W	≤ 1000 (65°)	≤ 19	89	1196 x 296 x 60	72	-	UT1861/228HFW	-
		2 x 54W	-	≤ 22	89	1196 x 296 x 60	72	-	UT1861/254HFW	-
	625	2 x 28W	≤ 1000 (65°)	≤ 19	89	1246 x 308 x 60	73	-	UT1867/228HFW	-
		2 x 54W	-	≤ 22	89	1246 x 308 x 60	73	-	UT1867/254HFW	-
Standard reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
65°	-	2 x 14W	≤ 1000 (65°)	≤ 19	92	596 x 201 x 93	71	-	UT1860/214HFW	-
		2 x 24W	≤ 1000 (65°)	≤ 22	92	596 x 201 x 93	71	-	UT1860/224HFW	-
		2 x 28W	≤ 1000 (65°)	≤ 19	89	1196 x 201 x 93	71	-	UT1860/228HFW	-
		2 x 28W	≤ 1000 (65°)	≤ 19	89	1201 x 207 x 93	80	-	UT1869/228HFW ²	-
		2 x 35W	≤ 1000 (65°)	≤ 19	89	1496 x 201 x 93	71	-	UT1860/235HFW	-
		2 x 49W	≤ 1000 (65°)	≤ 22	89	1496 x 201 x 93	71	-	UT1860/249HFW	-
		2 x 54W	-	≤ 22	89	1196 x 201 x 93	71	-	UT1860/254HFW	-
		2 x 54W	-	≤ 22	89	1201 x 207 x 93	80	-	UT1869/254HFW ²	-
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm									
65°	-	1 x 14W	≤ 200 (65°)	≤ 19	89	596 x 117 x 93	70	-	UT1870/114HFW	-
		1 x 24W	≤ 200 (65°)	≤ 19	89	596 x 117 x 93	70	-	UT1870/124HFW	-
		1 x 28W	≤ 200 (65°)	≤ 19	86	1196 x 117 x 93	70	-	UT1870/128HFW	-
		1 x 35W	≤ 200 (65°)	≤ 19	86	1496 x 117 x 93	70	-	UT1870/135HFW	-
		1 x 35W	≤ 200 (65°)	≤ 19	86	1496 x 146 x 93	78	125	UT1876/135HFW	-
		1 x 35W	≤ 200 (65°)	≤ 19	86	1501 x 123 x 93	79	-	UT1879/135HFW ²	-
		1 x 49W	≤ 200 (65°)	≤ 19	86	1496 x 117 x 93	70	-	UT1870/149HFW	-
		1 x 49W	≤ 200 (65°)	≤ 19	86	1496 x 146 x 93	78	125	UT1876/149HFW	-
		1 x 49W	≤ 200 (65°)	≤ 19	86	1501 x 123 x 93	79	-	UT1879/149HFW ²	-
		1 x 54W	≤ 200 (65°)	≤ 19	86	1196 x 117 x 93	70	-	UT1870/154HFW	-
	1800	1 x 35W	≤ 200 (65°)	≤ 19	86	1720 x 146 x 93	74	125	UT1875/135HFW ¹	-
		1 x 49W	≤ 200 (65°)	≤ 19	86	1720 x 146 x 93	74	125	UT1875/149HFW ¹	-

¹ 'BANDRASTER'
² wafer trimSave up to 75% of energy
see p 236 up to 261

UT186



UT187



UT1 wafer trim - webref. SUT1014H



UT18, modular – webref. SUT1014A

UT1

LINEAR

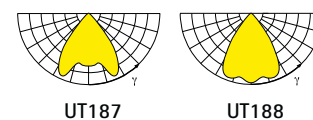
Table explanation p 427

module	lamp type	$L_{av.}$ – limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option
Comfort reflector – satin-anodised aluminium – Equilum® baffles									
	 T5 - Ø 16 mm								
65°	300	2 x 28W	≤ 200 (65°)	≤ 19	86	1196 x 296 x 60	72	-	UT1871/228HFW -
		2 x 54W	≤ 200 (65°)	≤ 19	86	1196 x 296 x 60	72	-	UT1871/254HFW -
	625	2 x 28W	≤ 200 (65°)	≤ 19	86	1246 x 308 x 60	73	-	UT1877/228HFW -
		2 x 54W	≤ 200 (65°)	≤ 19	86	1246 x 308 x 60	73	-	UT1877/254HFW -
Comfort reflector – satin-anodised aluminium – Equilum® baffles									
	 T5 - Ø 16 mm								
65°	-	2 x 14W	≤ 200 (65°)	≤ 19	89	596 x 201 x 93	71	-	UT1870/214HFW -
		2 x 24W	≤ 200 (65°)	≤ 19	89	596 x 201 x 93	71	-	UT1870/224HFW -
		2 x 28W	≤ 200 (65°)	≤ 19	86	1196 x 201 x 93	71	-	UT1870/228HFW -
		2 x 28W	≤ 200 (65°)	≤ 19	86	1201 x 207 x 93	80	-	UT1879/228HFW ² -
		2 x 35W	≤ 200 (65°)	≤ 19	86	1496 x 201 x 93	71	-	UT1870/235HFW -
		2 x 49W	≤ 200 (65°)	≤ 19	86	1496 x 201 x 93	71	-	UT1870/249HFW -
		2 x 54W	≤ 200 (65°)	≤ 19	86	1196 x 201 x 93	71	-	UT1870/254HFW -
		2 x 54W	≤ 200 (65°)	≤ 19	86	1201 x 207 x 93	80	-	UT1879/254HFW ² -
CAD reflector – satin-anodised aluminium – Equilum® baffles									
	 T5 - Ø 16 mm								
55°	-	1 x 14W	≤ 1000 (55°)	≤ 16	83	596 x 117 x 93	70	-	UT1880/114HFW -
		1 x 24W	≤ 1000 (55°)	≤ 16	83	596 x 117 x 93	70	-	UT1880/124HFW -
		1 x 28W	≤ 1000 (55°)	≤ 16	79	1196 x 117 x 93	70	-	UT1880/128HFW -
		1 x 35W	≤ 1000 (55°)	≤ 16	79	1496 x 117 x 93	70	-	UT1880/135HFW -
		1 x 35W	≤ 200 (65°)	≤ 16	82	1496 x 146 x 93	78	125	UT1886/135HFW -
		1 x 35W	≤ 1000 (55°)	≤ 16	79	1501 x 123 x 93	79	-	UT1889/135HFW ² -
		1 x 49W	≤ 1000 (55°)	≤ 16	79	1496 x 117 x 93	70	-	UT1880/149HFW -
		1 x 49W	≤ 200 (65°)	≤ 19	82	1496 x 146 x 93	78	125	UT1886/149HFW -
		1 x 49W	≤ 1000 (55°)	≤ 16	79	1501 x 123 x 93	79	-	UT1889/149HFW ² -
		1 x 54W	≤ 200 (65°)	≤ 19	79	1196 x 117 x 93	70	-	UT1880/154HFW -
	1800	1 x 35W	≤ 1000 (55°)	≤ 16	79	1720 x 146 x 93	74	125	UT1885/135HFW ¹ -
		1 x 49W	≤ 200 (65°)	≤ 19	79	1720 x 146 x 93	74	125	UT1885/149HFW ¹ -

¹ 'BANDRASTER'
² wafer trim



Save up to 75% of energy
 see p 236 up to 261



UT187

UT188

RECESSED
LUMINAIRES



UT1

LINEAR

Table explanation p 427

table explanation p 42

module	lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	 option	
CAD reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm 									
55°	300	2 x 28W	≤ 1000 (55°)	16	79	1196 x 296 x 60	72	-	UT1881/228HFW	-
		2 x 54W	≤ 200 (65°)	19	79	1196 x 296 x 60	72	-	UT1881/254HFW	-
	625	2 x 28W	≤ 1000 (55°)	16	79	1246 x 308 x 60	73	-	UT1887/228HFW	-
		2 x 54W	≤ 200 (65°)	19	79	1246 x 308 x 60	73	-	UT1887/254HFW	-
CAD reflector - satin-anodised aluminium - Equilum® baffles										
	 T5 - Ø 16 mm 									
55°	-	2 x 14W	≤ 1000 (55°)	16	83	596 x 201 x 93	71	-	UT1880/214HFW	-
		2 x 24W	≤ 1000 (55°)	16	83	596 x 201 x 93	71	-	UT1880/224HFW	-
		2 x 28W	≤ 1000 (55°)	16	79	1196 x 201 x 93	71	-	UT1880/228HFW	-
		2 x 28W	≤ 1000 (55°)	16	79	1201 x 207 x 93	80	-	UT1889/228HFW ²	-
		2 x 35W	≤ 1000 (55°)	16	79	1496 x 201 x 93	71	-	UT1880/235HFW	-
		2 x 49W	≤ 1000 (55°)	16	79	1496 x 201 x 93	71	-	UT1880/249HFW	-
		2 x 54W	≤ 200 (65°)	19	79	1196 x 201 x 93	71	-	UT1880/254HFW	-
		2 x 54W	≤ 200 (65°)	19	79	1201 x 207 x 93	80	-	UT1889/254HFW ²	-

² wafer trim

Save up to 75% of energy
see p 236 up to 261



UT188



UT1 diffuser - webref. SUT1015A

UT1

LINEAR

Table explanation p 427

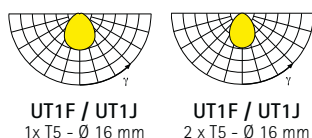
module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - acrylic / HaloOptics®							
	 T5 - Ø 16 mm						
-	1 x 28W	≤ 22	93	1196 x 117 x 93	77	UT1F10/128HFW	-
	1 x 35W	≤ 25	98	1496 x 117 x 93	77	UT1F10/135HFW	-
	2 x 28W	≤ 22	74	1196 x 117 x 93	77	UT1F10/228HFW	-
	2 x 35W	≤ 22	67	1496 x 117 x 93	77	UT1F10/235HFW	-
Diffuser - polycarbonate / HaloOptics®							
	 T5 - Ø 16 mm						
-	1 x 28W	≤ 22	87	1196 x 117 x 93	77	UT1J10/128HFW	•
	1 x 35W	≤ 22	92	1496 x 117 x 93	77	UT1J10/135HFW	•
	2 x 28W	≤ 22	66	1196 x 117 x 93	77	UT1J10/228HFW	•
	2 x 35W	≤ 22	60	1496 x 117 x 93	77	UT1J10/235HFW	•

Options and accessories

SQUARE and LINEAR:
mounting brackets with variable height adjustment, set of 4 pieces

U8H1

p 378





UT6 with SLL baffles - webref. SUT6011D



UT6 - webref. SUT6011F



UT6



Housing

Lacquered sheet steel housing with hinged optics

Optic

Reflector - asymmetric-beam distribution

Dimensional sketches p 384

Table explanation p 427

module	lamp type	$L_{av.} - \text{limit}$ cd/m^2	UGR	η %	L x W x H mm	plan N.	air cm ²	order code	option
Reflector - satin-anodised aluminium - asymmetric-beam distribution									
	T5 - Ø 16 mm								
-	1 x 28W	-	-	94	1196 x 196 x 75	90	-	UT6010/128HFW	-
	1 x 35W	-	-	93	1496 x 196 x 75	90	-	UT6010/135HFW	-
	1 x 49W	-	-	96	1496 x 196 x 75	90	-	UT6010/149HFW	-
	1 x 54W	-	-	95	1196 x 196 x 75	90	-	UT6010/154HFW	-
Reflector - satin-anodised aluminium - SLL baffles - asymmetric-beam distribution									
	T5 - Ø 16 mm								
60°	1 x 28W	-	-	87	1196 x 196 x 75	90	-	UT6000/128HFW	-
	1 x 35W	-	-	86	1496 x 196 x 75	90	-	UT6000/135HFW	-
	1 x 49W	-	-	89	1496 x 196 x 75	90	-	UT6000/149HFW	-
	1 x 54W	-	-	87	1196 x 196 x 75	90	-	UT6000/154HFW	-

Options and accessories

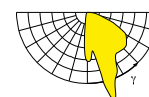
mounting brackets with variable height adjustment, set of 4 pieces

U8H1

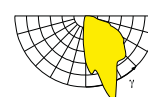
p 378



Save up to 75% of energy
see p 236 up to 261



without
cross-baffles



with
cross-baffles





DALLE - webref. SAL33A1C



DALLE

	Housing	Lacquered sheet steel housing, optics mounting by chrome-plated head nuts with bulge and flat head cap Wieland connection
	Optic	Diffuser - clear, tempered glass

Dimensional sketches p 384

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Softlight - glass							
	 T5 - Ø 16 mm						
600	4 x 24W	-	55	595 x 595 x 120	100	DALLE-EX600-424BE ¹	•
	4 x 24W	-	55	595 x 595 x 120	100	DALLE600-424BE	•

¹ EX: hexagon socket flat head cap nuts, brass

Options and accessories

mounting frame for plaster-board, wooden,... ceiling	CADRESTAFF600X600	p 378
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Save up to 75% of energy
see p 236 up to 261





EBIND, HaloOptics® - webref. SAL31B1A



EBIND, IP44 - webref. SAL31A1C



EBIND

	Housing	Lacquered sheet steel housing with 2-part lamp shielding which hinges open Closed lamp shielding: lacquered aluminium Perforated lamp shielding: lacquered sheet steel Diffuse lamp shielding: HaloOptics® for high efficiency Wieland connection
	Optic	Softlight - high reflection lacquer Diffuser - HaloOptics® for high efficiency

SQUARE

Dimensional sketches p 384

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Softlight - closed lamp shielding							
	 TC-L						
600	2 x 34/36/40W 2 x 55W	≤ 22	38	595 x 595 x 120	110	EBIND600-234/36/40COBE	•
625	2 x 34/36/40W	≤ 22	38	595 x 595 x 120	110	EBIND600-255COBG	•
625	2 x 34/36/40W	-		620 x 620 x 120	110	EBIND625-234/36/40COBE	•
Softlight - perforated lamp shielding							
	 TC-L						
600	2 x 34/36/40W 2 x 55W	≤ 25	62	595 x 595 x 120	110	EBIND600-234/36/40PFBE	•
625	2 x 34/36/40W	≤ 25	62	595 x 595 x 120	110	EBIND600-255PFBG	•
625	2 x 34/36/40W	≤ 22	62	620 x 620 x 120	110	EBIND625-234/36/40PFBE	•
Softlight - closed lamp shielding - tempered glass							
	 TC-L						
600	2 x 34/36/40W 2 x 55W	≤ 22	38	595 x 595 x 120	110	EBIND600-234/36/40COETABE ¹	•
625	2 x 34/36/40W	≤ 22	38	595 x 595 x 120	110	EBIND600-255COETABG ¹	•
625	2 x 34/36/40W	≤ 22	38	620 x 620 x 120	110	EBIND625-234/36/40COETABE ¹	•
Softlight - perforated lamp shielding - tempered glass							
	 TC-L						
600	2 x 34/36/40W 2 x 55W	≤ 22	45	595 x 595 x 120	110	EBIND600-234/36/40PFETABE ¹	•
625	2 x 34/36/40W	≤ 22	45	595 x 595 x 120	110	EBIND600-255PFETABG ¹	•
625	2 x 34/36/40W	-	-	620 x 620 x 120	110	EBIND625-234/36/40PFETABE ¹	•
Diffuser - polycarbonate / HaloOptics®							
	 T5 - Ø 16 mm						
600	2 x 14W 4 x 14W	≤ 25	84	595 x 595 x 120	111	EBIND600-214HRBE	•
		≤ 25	84	595 x 595 x 120	111	EBIND600-414HRBE	•

¹ IP44 compliant from below

Options and accessories

semi-transparent colour accent in lamp shielding groove	red	KIT-REGL600-ROU	
	green	KIT-REGL600-VER	
	blue	KIT-REGL600-BLE	
mounting frame for plaster-board, wooden,... ceiling	for EBIND600	CADRESTAFF600x600	p 378



Save up to 75% of energy
see p 236 up to 261

RECESSED LUMINAIRES



EDEN

webref. SAL32A2A



ECHO

webref. SAL43B2A

ECHO



	Housing	Lacquered sheet steel housing with 2-part lamp shielding which hinges open Closed lamp shielding: lacquered aluminium Perforated lamp shielding: lacquered sheet steel Diffuse lamp shielding: HaloOptics™ / Wieland connection
	Optic	Softlight - high reflection lacquer Diffuser - HaloOptics™ for high efficiency

Dimensional sketches p 384

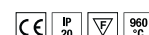
Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Softlight - closed lamp shielding - round							
	 T5 - Ø 16 mm						
300	2 x 28/54W	≤ 22	52	1195 x 295 x 110	120	ECHO1200-228/54COBE	•
Softlight - perforated lamp shielding							
	 T5 - Ø 16 mm						
300	2 x 28/54W	≤ 22	81	1195 x 295 x 110	120	ECHO1200-228/54PFBE	•
Diffuser - polycarbonate / HaloOptics™							
	 T5 - Ø 16 mm						
300	2 x 28/54W	≤ 22	84	1195 x 295 x 110	120	ECHO1200-228/54HRBE	•

Options and accessories

mounting frame for plaster-board, wooden,... ceiling	CADRESTAFF1200x300	p 378
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EDEN



	Housing	Lacquered sheet steel housing with 2-part lamp shielding which hinges open Closed lamp shielding: lacquered aluminium Perforated lamp shielding: lacquered sheet steel / Wieland connection
	Optic	Softlight - high reflection lacquer

Dimensional sketches p 384

Table explanation p 427

module	lamp type	UGR	n %	L x W x H mm	plan N.	order code	 option
Softlight - closed lamp shielding							
							
600	2 x 34/36/40W	≤ 22	38	600 x 600 x 120	130	EDEN550/600BAC-234/36/40COBE	•
Softlight - perforated lamp shielding							
	 TC-L						
600	2 x 34/36/40W	≤ 25	62	600 x 600 x 120	130	EDEN550/600BAC-234/36/40PFBE	•
	2 x 55W	≤ 25	62	600 x 600 x 120	130	EDEN550/600BAC-255PFBG	•

Options and accessories

semi-transparent colour accent in lamp shielding groove	red	KIT-REGL600-ROU
	green	KIT-REGL600-VER
	blue	KIT-REGL600-BLE



EGLASS

webref. SAL69A1A



EHAD

webref. SAL66A1A



EGLASS



Housing

Laquered sheet steel housing, optics mounting by chrome-plated head nuts with flat head caps
Wieland connection

Optic

Diffuser - clear, tempered glass with screenprint drawing

Dimensional sketches p 384

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - clear, tempered glass							
	 T-R						
-	1 x 22W	≤ 22	50	300 x 300 x 87		EGLASS300-C122VEETABE	•



EHAD



Housing

Lacquered sheet steel housing with optic, bayonet connection for optics assembly
Wieland connection

Optic

Diffuser: HaloOptics® for high efficiency

Dimensional sketches p 384

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - polycarbonate / HaloOptics®							
	 T-R						
600	1 x 60W	≤ 22	49	595 x 595 x 120		EHAD600-C160HRBACBE	•



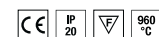
Save up to 75% of energy
see p 236 up to 261

RECESSED LUMINAIRES



ELITE, perforated lamp shielding - webref. SAL40A2A

ELITE



	Housing	Lacquered sheet steel housing with 2-part lamp shielding which hinges open Perforated lamp shielding: lacquered sheet steel Diffuse lamp shielding: HaloOptics® Wieland connection
	Optic	Softlight - high reflection lacquer Diffuser - HaloOptics® for high efficiency

Dimensional sketches p 384

SQUARE

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - polycarbonate / HaloOptics®							
	 T5 - Ø 16 mm						
600	2 x 24W	≤ 28	85	595 x 595 x 40	152	ELITE600-224HRBE	•
Softlight - perforated lamp shielding							
	 TC-L						
600	2 x 34/36/40W	≤ 28	61	595 x 595 x 40	150	ELITE600-234/36/40BE	•
	2 x 55W	≤ 28	61	595 x 595 x 40	150	ELITE600-255BG	•

LINEAR

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - polycarbonate / HaloOptics®							
	 T5 - Ø 16 mm						
300	2 x 28W	-	88	1195 x 295 x 20	151	ELITE1200-228HRBE	•
Softlight - perforated lamp shielding							
	 T5 - Ø 16 mm						
300	2 x 28/54W	≤ 25	53	1195 x 295 x 50	151	ELITE1200-228/54BE	•

Options and accessories

SQUARE

semi-transparent colour accent in lamp shielding groove	red	KIT-REGL600-ROU
	green	KIT-REGL600-VER
	blue	KIT-REGL600-BLE
mounting frame for plaster-board, wooden,... ceiling		CADRESTAFF600x600 p 378

LINEAR

mounting frame for plaster-board, wooden,... ceiling	CADRESTAFF1200x300 p 378
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ENEXTRA - webref. SAL63E2



ENEXTRA

	Housing	Lacquered sheet steel housing, optics mounting by screws Perforated and closed lamp shielding: lacquered sheet steel Diffuse lamp shielding: HaloOptics® Wieland connection
	Optic	Softlight - high reflection lacquer Diffuser - HaloOptics® for high efficiency

Dimensional sketches p 384

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - polycarbonate / HaloOptics®							
	 T5 - Ø 16 mm						
300	2 x 28/54W	≤ 25	60	1195 x 295 x 90	161	ENEXTRA1200-228/54HRBE	•
Softlight - perforated lamp shielding							
	 T5 - Ø 16 mm						
300	2 x 28/54W	≤ 22	55	1195 x 295 x 90	160	ENEXTRA1200-228/54BE	•

Options and accessories

mounting frame for plaster-board, wooden,... ceiling

CADRESTAFF1200x300

p 378



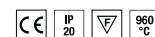
Save up to 75% of energy
see p 236 up to 261

RECESSED LUMINAIRES



EPOLY - webref. SAL65A1A

EPOLY



	Housing	Lacquered sheet steel housing, optics mounting by click system Diffuse lamp shielding: HaloOptics® Wieland connection
	Optic	Diffuser - HaloOptics® for high efficiency

Dimensional sketches p 384

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - polycarbonate / HaloOptics®							
	 T5 - Ø 16 mm						
-	1 x 14/24W	≤ 22	56	595 x 145 x 76	170	EPOLY600-114/24HRBE	•
	1 x 28/54W	≤ 25	64	1195 x 145 x 76	170	EPOLY1200-128/54HRBE	•



ETITA, linear - webref. SAL35B1A



ETITA, square - webref. SAL35A1A



ETITA

	Housing	Lacquered sheet steel housing with 2-part lamp shielding which hinges open Lamp shielding: frosted glass with fine line texture in an aluminium profile Wieland connection
	Optic	Softlight - high reflection lacquer

Dimensional sketches p 384

SQUARE

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Softlight - glass lamp shielding							
	 TC-L						
600	2 x 34/36/40W 2 x 55W	≤ 25 -	51 -	595 x 595 x 84 595 x 595 x 84	180 180	ETITA600-234/36/40PABE ETITA600-255PABG	• •

LINEAR

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Softlight - glass lamp shielding							
	 T5 - Ø 16 mm						
300	2 x 28/54W	≤ 25	68	1195 x 295 x 103	181	ETITA1200-228/54PABE	•

Options and accessories

SQUARE

mounting frame for plaster-board, wooden,... ceiling

CADRESTAFF600x600

p 378

LINEAR

mounting frame for plaster-board, wooden,... ceiling

CADRESTAFF1200x300

p 378



Save up to 75% of energy
see p 236 up to 261

RECESSED
LUMINAIRES





EVER, linear - webref. SAL32D1A



EVER, square - webref. SAL32E1A

EVER



Housing

Lacquered sheet steel housing with 2-part lamp shielding which hinges open
 Perforated lamp shielding: lacquered sheet steel
 Diffuse lamp shielding: HaloOptics® for high efficiency
 Wieland connection

Optic

Softlight - high reflection lacquer
 Diffuser - HaloOptics® for high efficiency

Dimensional sketches p 384

SQUARE

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	option
Diffuser - polycarbonate / HaloOptics®							
	 T5 - Ø 16 mm						
600	2 x 14W	≤ 25	80	595 x 595 x 80	191	EVER600-214HRBE	•
	2 x 24W	-	-	595 x 595 x 80	191	EVER600-224HRBE	•
	4 x 14W	≤ 25	73	595 x 595 x 80	191	EVER600-414HRBE	•
Softlight - perforated lamp shielding							
	 TC-L						
600	1 x 55W	≤ 25	60	595 x 595 x 80	191	EVER600-155PFBE	•
	2 x 34/36/40W	≤ 25	61	595 x 595 x 80	191	EVER600-234/36/40BE	•
	2 x 55W	≤ 25	61	595 x 595 x 80	191	EVER600-255BG	•

LINEAR

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	option
Diffuser - polycarbonate / HaloOptics®							
	 T5 - Ø 16 mm						
300	2 x 28W	≤ 25	82	1195 x 295 x 81	190	EVER1200-228HRBE	•

Options and accessories

SQUARE

semi-transparent colour accent in lamp shielding groove	red	KIT-REGL600-ROU	p 378
	green	KIT-REGL600-VER	p 378
	blue	KIT-REGL600-BLE	p 378
mounting frame for plaster-board, wooden,... ceiling		CADRESTAFF600x600	p 378

LINEAR

mounting frame for plaster-board, wooden,... ceiling	CADRESTAFF1200x300	p 378
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Save up to 75% of energy
 see p 236 up to 261

RECESSED LUMINAIRES

EXTRA, square - webref. SAL63A1A

EXTRA, linear - webref. SAL63A3A

EXTRA



	Housing	Lacquered sheet steel housing, optics mounting by screws or click system Perforated and closed lamp shielding: lacquered sheet steel Diffuse lamp shielding: HaloOptics® Wieland connection
	Optic	Softlight - high reflection lacquer Diffuser - HaloOptics® for high efficiency

Dimensional sketches p 384

SQUARE

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - polycarbonate / HaloOptics®							
	 T5 - Ø 16 mm						
600	4 x 14W	≤ 25	67	595 x 595 x 30	202	EXTRA600-414HRBE	•
	4 x 24W	≤ 28	67	595 x 595 x 30	202	EXTRA600-424HRBE	•
Softlight - perforated lamp shielding							
	 T5 - Ø 16 mm						
600	4 x 14W	≤ 25	62	595 x 595 x 30	201	EXTRA600-414BE	•
	4 x 24W	-	66	595 x 595 x 30	201	EXTRA600-424BE	•

LINEAR

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - polycarbonate / HaloOptics®							
	 T5 - Ø 16 mm						
300	2 x 28/54W	-	-	1195 x 295 x 30	203	EXTRA1200-228/54HRBE	•
	2 x 24W	≤ 28	68	595 x 295 x 30	203	EXTRA600-224HRBE	•
Softlight - perforated lamp shielding							
	 T5 - Ø 16 mm						
300	2 x 28/54W	≤ 28	63	1195 x 295 x 30	200	EXTRA1200-228/54BE	•
	2 x 24W	≤ 28	69	595 x 295 x 30	200	EXTRA600-224BE	•

Options and accessories

SQUARE

mounting frame for plaster-board, wooden, ... ceiling	CADRESTAFF600x600	p 378
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LINEAR

mounting frame for plaster-board, wooden, ... ceiling	CADRESTAFF1200x300	p 378
	CADRESTAFF600x300	p 378



OPTART - webref. SAL64A1A



OPTART

	Housing	Lacquered sheet steel housing, with optics which hinges open Wieland connection
	Optic	Diffuser - Polycarbonate foil / clear tempered glass with screen- print drawing (choose from 3 drawings and 2 colours)

Dimensional sketches p 384

Table explanation p 427

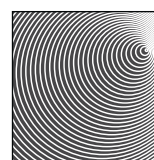
module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Softlight - polycarbonate / glass							
	 T5 - Ø 16 mm						
600	4 x 14W	≤ 19	29	595 x 595 x 120	210	OPTART600-414DUAL-NBE	•
	4 x 14W	≤ 19	44	595 x 595 x 120	210	OPTART600-414DUAL-BBE	•
Softlight - polycarbonate / glass							
	 T5 - Ø 16 mm						
600	4 x 14W	≤ 19	29	595 x 595 x 120	210	OPTART600-414DUNE-NBE	•
	4 x 14W	≤ 19	44	595 x 595 x 120	210	OPTART600-414DUNE-BBE	
Softlight - polycarbonate / glass							
	 T5 - Ø 16 mm						
600	4 x 14W	≤ 19	29	595 x 595 x 120	210	OPTART600-414MANTA-NBE	•
	4 x 14W	≤ 19	44	595 x 595 x 120	210	OPTART600-414MANTA-BBE	•

Options and accessories

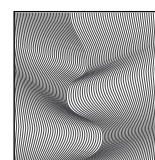
mounting frame for plaster-board, wooden,... ceiling

CADRESTAFF600x600

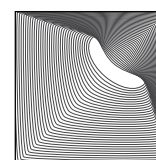
p 378



DUAL



DUNE



MANTA



Save up to 75% of energy
see p 236 up to 261





SCOUP - webref. SAL45B1A



SCOUP

	Housing	Lacquered sheet steel housing with 2-part lamp shielding which hinges open Closed lamp shielding: lacquered aluminium Perforated lamp shielding: lacquered sheet steel Wieland connection
	Optic	Softlight - high reflection lacquer

Dimensional sketches p 384

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Softlight - perforated lamp shielding							
	 TC-L						
600	1 x 55W	≤ 22	59	595 x 595 x 120	221	SCOUP600-155PFBACBE	•
Softlight - perforated lamp shielding							
	 TC-T						
-	1 x 26/32W	≤ 25	72	335 x 150	220	SCOUP300-126/32PFPLABE	•
	1 x 32/42W	≤ 25	72	395 x 150	220	SCOUP350-132/42PFPLABE	•

Options and accessories

mounting frame for plaster-board, wooden,... ceiling

CADRESTAFF600x600

p 378



Save up to 75% of energy
see p 236 up to 261





VELA

webref. SAL34A1A



SKY

webref. SAL67A1A



SKY

	Housing	Lacquered sheet steel housing with 2-part lamp shielding which hinges open Diffuse lamp shielding: HaloOptics® Wieland connection
	Optic	Diffuser: HaloOptics® for high efficiency

Dimensional sketches p 384

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Diffuser - polycarbonate / HaloOptics®							
600	 T-R 1 x 40W	≤ 22	61	595 x 595 x 120		SKY600-C140HRBE	•

Options and accessories

mounting frame for plaster-board, wooden,... ceiling	CADRESTAFF600x600	p 378
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VELA

	Housing	Lacquered sheet steel housing with lamp shielding which hinges open Perforated and closed lamp shielding: lacquered sheet steel Wieland connection
	Optic	Softlight - high reflection lacquer

Dimensional sketches p 384

Table explanation p 427

module	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Softlight - perforated lamp shielding							
600	 TC-T 2 x 26/32/42W	≤ 22	62	595 x 595 x 120	230	VELA600-226/32/42BE	•

Options and accessories

mounting frame for plaster-board, wooden,... ceiling	CADRESTAFF600x600	p 378
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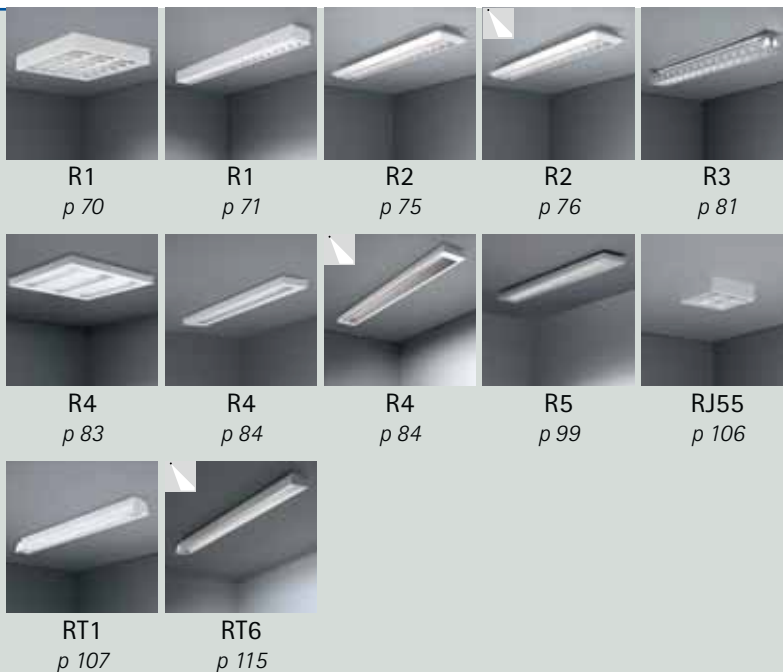


Save up to 75% of energy
see p 236 up to 261

SURFACE MOUNTED AND SUSPENDED LUMINAIRES

reflector

surface mounted - individual



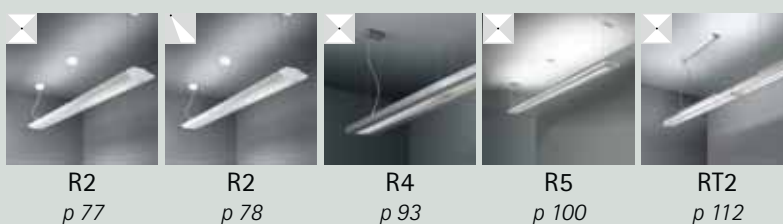
pendant - individual



surface mounted - straight line mounting



pendant - straight line mounting



webref. SR4004R1

softlight



R4
p 83



R4
p 85



R8
p 103



EGAL
p 117



EGAL
p 118



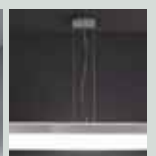
ELAN
p 119



OELITE
p 121



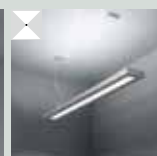
FA5
p 172



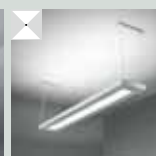
FA6
p 173



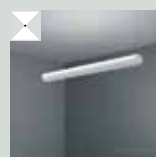
FA7
p 173



R4
p 92



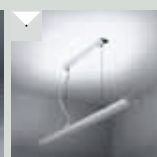
R5
p 99



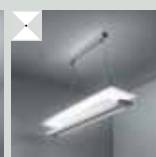
R8
p 104



EGAL
p 118



FUZO
p 120



SEXTRA
p 121



R4
p 88



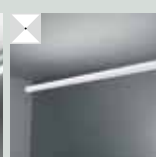
R8
p 103



R4
p 95



R5
p 100



R8
p 104

SURFACE MOUNTED AND SUSPENDED LUMINAIRES



R1, square - webref. SR1017A1

R1



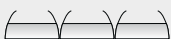
Housing Lacquered sheet steel housing with hinged optics

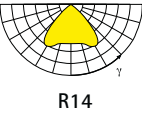
Optic Reflector - HRSilver™ - high reflection aluminium

Dimensional sketches p 396

SQUARE surface mounted luminaire

Table explanation p 427

lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code	 option
Reflector - satin-anodised aluminium - SLL baffles							
 T8 - Ø 26 mm							
60° 3 x 18W	-	-	-	653 x 600 x 103	300	R1400/318HFW	-





R1, linear - webref. SR1018D1

R1

LINEAR surface mounted luminaire

Table explanation p 427

	lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code	 option
Reflector - satin-anodised aluminium - flat baffles								
	 T8 - Ø 26 mm							
70°	1 x 36W	-	≤ 22	80	1263 x 173 x 111	301	R1580/136HFW	-
	1 x 58W	-	≤ 22	78	1563 x 173 x 111	301	R1580/158HFW	-
60°	1 x 36W	-	≤ 19	74	1263 x 173 x 111	301	R1590/136HFW	-
	1 x 58W	-	≤ 19	72	1563 x 173 x 111	301	R1590/158HFW	-
Reflector - satin-anodised aluminium - flat baffles								
	 T8 - Ø 26 mm							
70°	2 x 36W	-	≤ 22	80	1263 x 304 x 111	302	R1580/236HFW	-
60°	2 x 36W	-	≤ 19	74	1263 x 304 x 111	302	R1590/236HFW	-
	2 x 58W	-	≤ 19	72	1563 x 304 x 111	302	R1590/258HFW	-
Reflector - satin-anodised aluminium - Isolum® baffles								
	 T8 - Ø 26 mm							
60°	1 x 36W	≤ 1000 (65°)	≤ 19	80	1263 x 173 x 111	301	R1600/136HFW	-
	1 x 58W	≤ 1000 (65°)	≤ 19	77	1563 x 173 x 111	301	R1600/158HFW	-
50°	1 x 36W	≤ 1000 (55°)	≤ 16	74	1263 x 173 x 111	301	R1630/136HFW	-
	1 x 58W	≤ 1000 (55°)	≤ 16	61	1563 x 173 x 111	301	R1630/158HFW	-
Reflector - satin-anodised aluminium - Isolum® baffles								
	 T8 - Ø 26 mm							
60°	2 x 36W	≤ 1000 (65°)	≤ 19	79	1263 x 304 x 111	302	R1600/236HFW	-
	2 x 58W	≤ 1000 (65°)	≤ 19	77	1563 x 304 x 111	302	R1600/258HFW	-
50°	2 x 36W	≤ 1000 (55°)	≤ 16	64	1263 x 304 x 111	302	R1630/236HFW	-
	2 x 58W	≤ 1000 (55°)	≤ 16	62	1563 x 304 x 111	302	R1630/258HFW	-



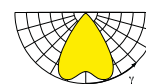
Save up to 75% on energy
see p 236 up to 261



R158 / R159
T8 - Ø 26 mm

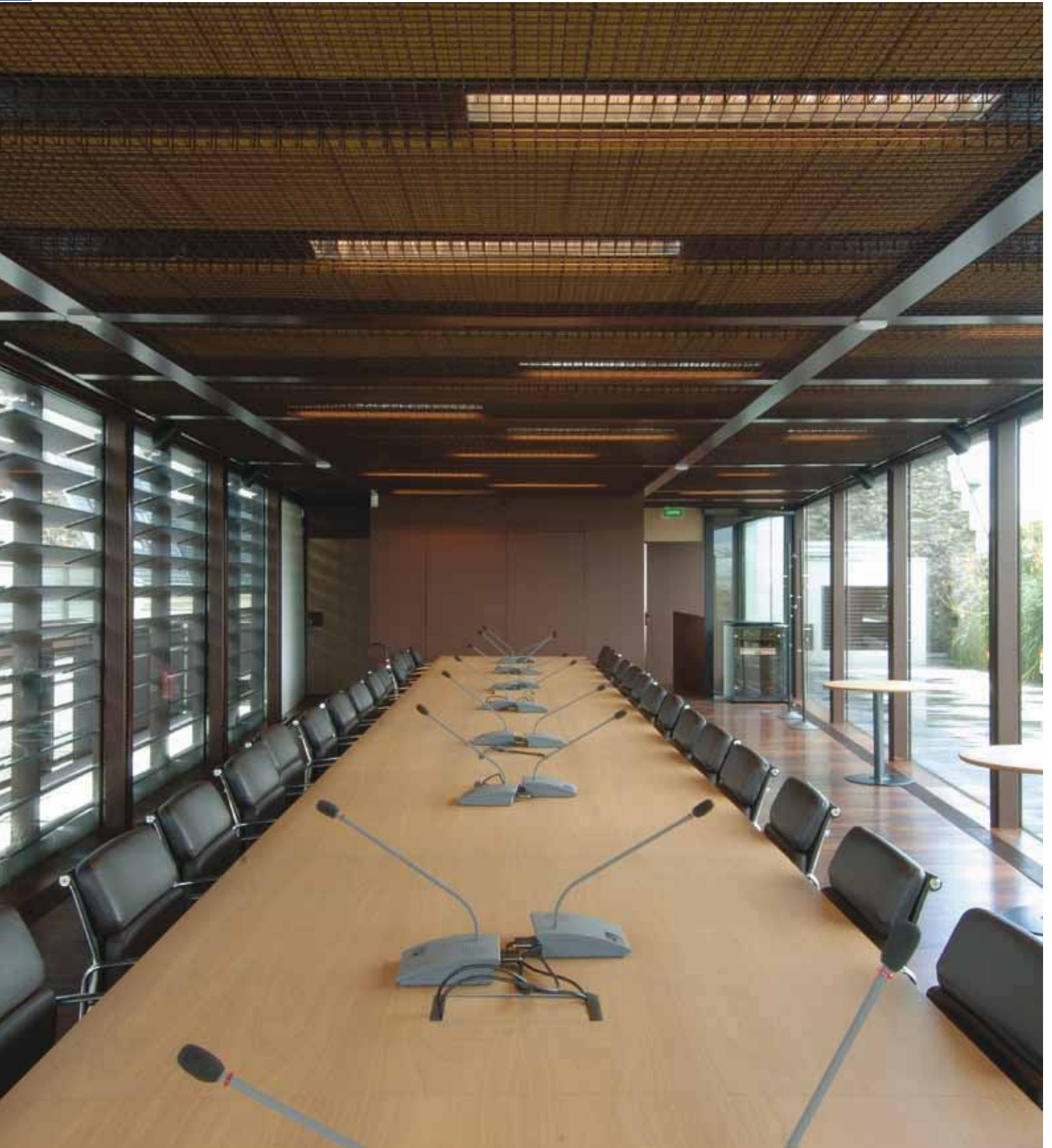


R160
T8 - Ø 26 mm



R163
T8 - Ø 26 mm

SURFACE MOUNTED
AND SUSPENDED LUMINAIRES





R1, asymmetric-beam distribution - webref. SR1018B1

R1

LINEAR surface mounted luminaire

Table explanation p 427

surface mounted luminaires								table explanation p. 42	
lamp type		L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code	 option	
Reflector - satin-anodised aluminium - Isolum® baffles									
									
T5 - Ø 16 mm									
60°	1 x 28W	≤ 1000 (65°)	≤ 22	93	1213 x 173 x 111	301	R1600/128HFW	-	
	1 x 35W	≤ 1000 (65°)	≤ 22	93	1513 x 173 x 111	301	R1600/135HFW	-	
	1 x 49W	≤ 1000 (65°)	≤ 22	96	1513 x 173 x 111	301	R1600/149HFW	-	
	1 x 54W	≤ 1000 (65°)	≤ 22	94	1213 x 173 x 111	301	R1600/154HFW	-	
	2 x 28W	≤ 1000 (65°)	≤ 19	85	1213 x 173 x 111	301	R1600/228HFW	-	
	2 x 35W	≤ 1000 (65°)	≤ 19	84	1513 x 173 x 111	301	R1600/235HFW	-	
	2 x 49W	≤ 1000 (65°)	≤ 22	87	1513 x 173 x 111	301	R1600/249HFW	-	
	2 x 54W	≤ 1000 (65°)	≤ 22	86	1213 x 173 x 111	301	R1600/254HFW	-	
50°	1 x 28W	≤ 200 (55°)	≤ 16	71	1213 x 173 x 111	301	R1630/128HFW	-	
	1 x 35W	≤ 200 (55°)	≤ 16	71	1513 x 173 x 111	301	R1630/135HFW	-	
	1 x 49W	≤ 200 (55°)	≤ 16	73	1513 x 173 x 111	301	R1630/149HFW	-	
	1 x 54W	≤ 1000 (55°)	≤ 16	72	1213 x 173 x 111	301	R1630/154HFW	-	
Reflector - satin-anodised aluminium - SLL baffles - asymmetric-beam distribution									
									
T8 - Ø 26 mm									
60°	1 x 58W	-		71	1563 x 173 x 111	301	R1560/158HFW	-	

Options and accessories



protective grill, including brackets

for 2-lamp luminaires 58W

code + S1



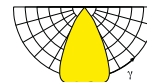
Save up to 75% on energy
see p 236 up to 261



R160
1x T5 - Ø 16 mm



R160
2x T5 - Ø 16 mm

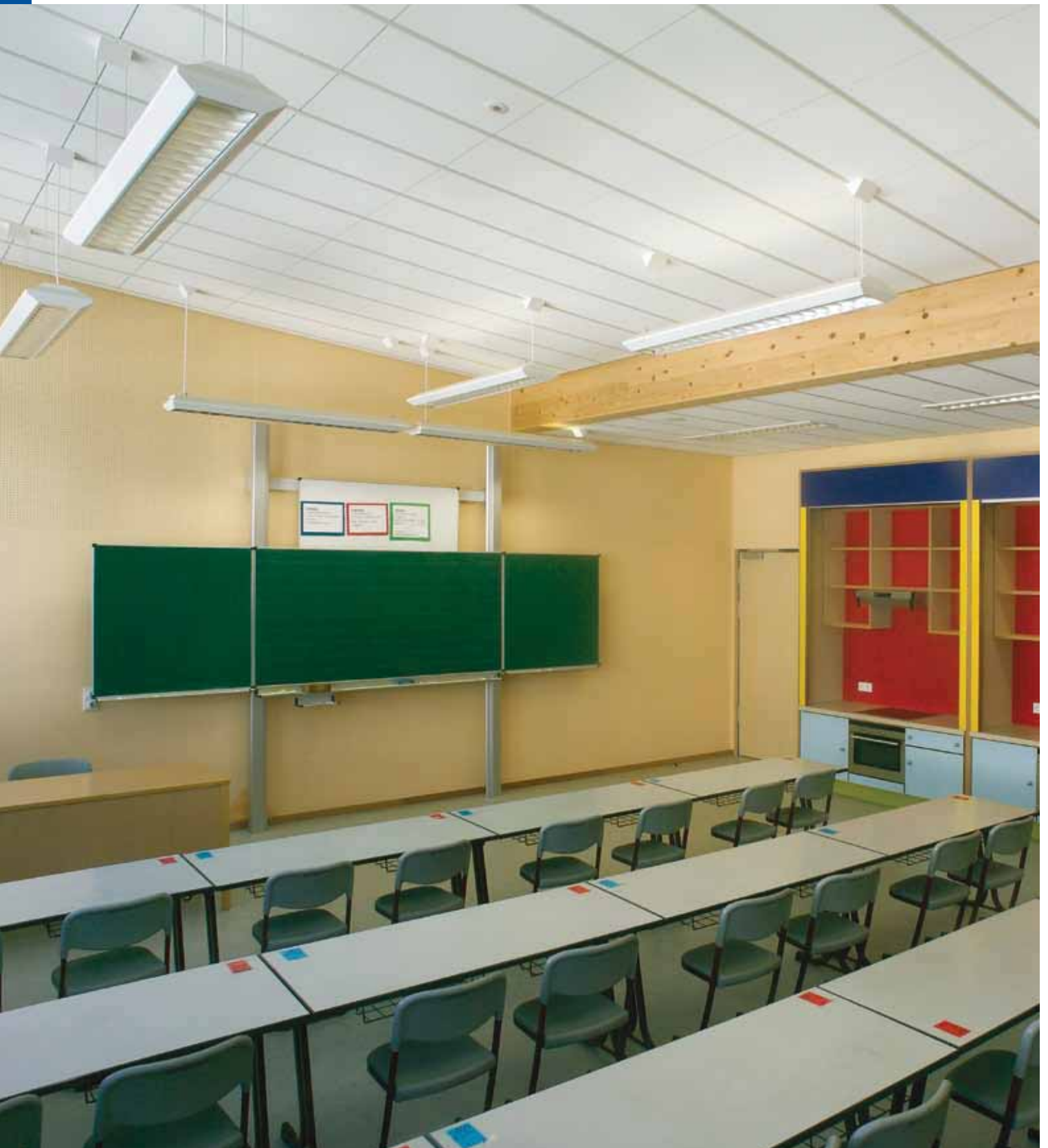


R163
T5 - Ø 16 mm



R156
T8 - Ø 26 mm

SURFACE MOUNTED
AND SUSPENDED LUMINAIRES





R2, individual and line mounting - webref. SR2019AB



R2 - webref. SR2020D1



R2



Housing

Lacquered sheet steel housing with hinged optics

Optic

Reflector - high reflection aluminium

Dimensional sketches p 396

surface mounted luminaire

individual

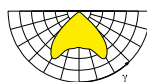
straight line mounting: through wiring (3 x 1.5 mm²): included as standard

Table explanation p 427

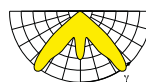
lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code white	L x W x H mm	plan N.	order code white	option
Reflector - satin-anodised aluminium - flat baffles										
T8 - Ø 26 mm										
60°	1 x 36W	-	≤ 19	73	1300 x 260 x 92	310	R2590/136HFW	1240 x 260 x 92	311	R2590/136HFW3 -
	1 x 58W	-	≤ 19	71	1600 x 260 x 92	310	R2590/158HFW	1540 x 260 x 92	311	R2590/158HFW3 -
Reflector - satin-anodised aluminium - flat baffles										
T5 - Ø 16 mm										
60°	1 x 28W	-	≤ 22	88	1250 x 260 x 92	310	R2590/128HFW	1190 x 260 x 92	311	R2590/128HFW3 -
	1 x 35W	-	≤ 22	87	1550 x 260 x 92	310	R2590/135HFW	1490 x 260 x 92	311	R2590/135HFW3 -
	1 x 49W	-	≤ 22	90	1550 x 260 x 92	310	R2590/149HFW	1490 x 260 x 92	311	R2590/149HFW3 -
	1 x 54W	-	≤ 22	88	1250 x 260 x 92	310	R2590/154HFW	1190 x 260 x 92	311	R2590/154HFW3 -
	2 x 28W	-	≤ 22	82	1250 x 260 x 92	310	R2590/228HFW	1190 x 260 x 92	311	R2590/228HFW3 -
	2 x 35W	-	≤ 22	81	1550 x 260 x 92	310	R2590/235HFW	1490 x 260 x 92	311	R2590/235HFW3 -
	2 x 49W	-	≤ 22	83	1550 x 260 x 92	310	R2590/249HFW	1490 x 260 x 92	311	R2590/249HFW3 -
	2 x 54W	-	≤ 25	82	1250 x 260 x 92	310	R2590/254HFW	1190 x 260 x 92	311	R2590/254HFW3 -
Reflector - satin-anodised aluminium - Isolum® baffles										
T8 - Ø 26 mm										
60°	1 x 36W	≤ 1000 (65°)	≤ 19	76	1300 x 260 x 92	310	R2600/136HFW	1240 x 260 x 92	311	R2600/136HFW3 -
	1 x 58W	≤ 1000 (65°)	≤ 19	74	1600 x 260 x 92	310	R2600/158HFW	1540 x 260 x 92	311	R2600/158HFW3 -
	2 x 36W	≤ 1000 (65°)	≤ 19	59	1300 x 260 x 92	310	R2600/236HFW	1240 x 260 x 92	311	R2600/236HFW3 -
	2 x 58W	≤ 1000 (65°)	≤ 19	56	1600 x 260 x 92	310	R2600/258HFW	1540 x 260 x 92	311	R2600/258HFW3 -
50°	1 x 36W	≤ 1000 (55°)	≤ 16	62	1300 x 260 x 92	310	R2630/136HFW	1240 x 260 x 92	311	R2630/136HFW3 -
	1 x 58W	≤ 1000 (55°)	≤ 16	60	1600 x 260 x 92	310	R2630/158HFW	1540 x 260 x 92	311	R2630/158HFW3 -



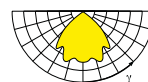
Save up to 75% on energy
see p 236 up to 261



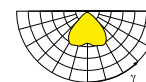
R259 / R260
1x T8 - Ø 26 mm



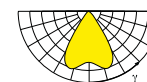
R259
1x T5 - Ø 16 mm



R259
2x T5 - Ø 16 mm



R260
2x T8 - Ø 26 mm



R263
T8 - Ø 26 mm

SURFACE MOUNTED AND SUSPENDED LUMINAIRES



R2, line mounting - webref. SR2020A0

R2

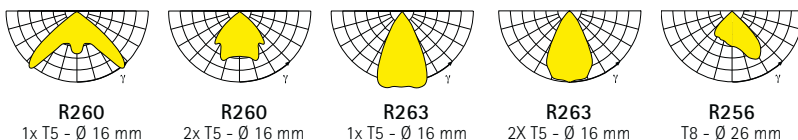
surface mounted luminaire

individual

straight line mounting: through wiring (3 x 1,5 mm²): included as standard

Table explanation p 427

lamp type	L _{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code white	L x W x H mm	plan N.	order code white	option
Reflector - satin-anodised aluminium - Isolum® baffles										
   										
T5 - Ø 16 mm										
60°	1 x 28W	≤ 1000 (65°)	≤ 22	92	1250 x 260 x 92	310	R2600/128HFW	1190 x 260 x 92	311	R2600/128HFW3 -
	1 x 35W	≤ 1000 (65°)	≤ 22	91	1550 x 260 x 92	310	R2600/135HFW	1490 x 260 x 92	311	R2600/135HFW3 -
	1 x 49W	≤ 1000 (65°)	≤ 22	94	1550 x 260 x 92	310	R2600/149HFW	1490 x 260 x 92	311	R2600/149HFW3 -
	1 x 54W	≤ 1000 (65°)	≤ 22	92	1250 x 260 x 92	310	R2600/154HFW	1190 x 260 x 92	311	R2600/154HFW3 -
	2 x 28W	≤ 1000 (65°)	≤ 19	80	1250 x 260 x 92	310	R2600/228HFW	1190 x 260 x 92	311	R2600/228HFW3 -
	2 x 35W	≤ 1000 (65°)	≤ 19	79	1550 x 260 x 92	310	R2600/235HFW	1490 x 260 x 92	311	R2600/235HFW3 -
	2 x 49W	≤ 1000 (65°)	≤ 22	82	1550 x 260 x 92	310	R2600/249HFW	1490 x 260 x 92	311	R2600/249HFW3 -
	2 x 54W	≤ 1000 (65°)	≤ 22	81	1250 x 260 x 92	310	R2600/254HFW	1190 x 260 x 92	311	R2600/254HFW3 -
50°	1 x 28W	≤ 200 (55°)	≤ 16	72	1250 x 260 x 92	310	R2630/128HFW	1190 x 260 x 92	311	R2630/128HFW3 -
	1 x 35W	≤ 200 (55°)	≤ 16	71	1550 x 260 x 92	310	R2630/135HFW	1490 x 260 x 92	311	R2630/135HFW3 -
	1 x 49W	≤ 200 (55°)	≤ 16	73	1550 x 260 x 92	310	R2630/149HFW	1490 x 260 x 92	311	R2630/149HFW3 -
	1 x 54W	≤ 1000 (55°)	≤ 16	72	1250 x 260 x 92	310	R2630/154HFW	1190 x 260 x 92	311	R2630/154HFW3 -
	2 x 28W	≤ 1000 (55°)	≤ 16	69	1250 x 260 x 92	310	R2630/228HFW	1190 x 260 x 92	311	R2630/228HFW3 -
	2 x 35W	≤ 1000 (55°)	≤ 16	68	1550 x 260 x 92	310	R2630/235HFW	1490 x 260 x 92	311	R2630/235HFW3 -
	2 x 49W	≤ 1000 (55°)	≤ 16	70	1496 x 260 x 93	310	R2630/249HFW	1490 x 260 x 92	311	R2630/249HFW3 -
	2 x 54W	≤ 1000 (55°)	≤ 19	69	1250 x 260 x 92	310	R2630/254HFW	1190 x 260 x 92	311	R2630/254HFW3 -
Reflector - satin-anodised aluminium - SLL baffles - asymmetric-beam distribution										
   										
T8 - Ø 26 mm										
60°	1 x 58W	-	-	70	1600 x 260 x 92	310	R2560/158HFW	1540 x 260 x 92	313	R2560/158HFW3





R2, individual suspended - webref. SR2021A1

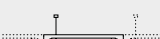
R2

suspended luminaire

individual

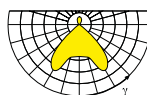
straight line mounting: through wiring (3 x 1,5 mm²): included as standard

Table explanation p 427

lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code white	L x W x H mm	plan N.	order code white	option
Reflector - satin-anodised aluminium - flat baffles										
 T8 - Ø 26 mm										
60° 1 x 36W	-	≤ 19	80	1300 x 260 x 92	312	R2591/136HFW	1240 x 260 x 92	313	R2591/136HFW3	-
1 x 58W	-	≤ 19	78	1600 x 260 x 92	312	R2591/158HFW	1540 x 260 x 92	313	R2591/158HFW3	-
Reflector - satin-anodised aluminium - flat baffles										
 T5 - Ø 16 mm										
60° 1 x 28W	-	≤ 19	87	1250 x 260 x 92	312	R2591/128HFW	1190 x 260 x 92	313	R2591/128HFW3	-
1 x 35W	-	≤ 19	87	1550 x 260 x 92	312	R2591/135HFW	1490 x 260 x 92	313	R2591/135HFW3	-
1 x 49W	-	≤ 22	89	1550 x 260 x 92	312	R2591/149HFW	1490 x 260 x 92	313	R2591/149HFW3	-
1 x 54W	-	≤ 22	88	1250 x 260 x 92	312	R2591/154HFW	1190 x 260 x 92	313	R2591/154HFW3	-
2 x 28W	-	≤ 19	82	1250 x 260 x 92	312	R2591/228HFW	1190 x 260 x 92	313	R2591/228HFW3	-
2 x 35W	-	≤ 19	81	1550 x 260 x 92	312	R2591/235HFW	1490 x 260 x 92	313	R2591/235HFW3	-
2 x 49W	-	≤ 22	84	1550 x 260 x 92	312	R2591/249HFW	1490 x 260 x 92	313	R2591/249HFW3	-
2 x 54W	-	≤ 22	82	1250 x 260 x 92	312	R2591/254HFW	1190 x 260 x 92	313	R2591/254HFW3	-
Reflector - satin-anodised aluminium - Isolux® baffles										
 T8 - Ø 26 mm										
60° 1 x 36W	≤ 200 (65°)	≤ 16	83	1300 x 260 x 92	312	R2601/136HFW	1240 x 260 x 92	313	R2601/136HFW3	-
1 x 58W	≤ 1000 (65°)	≤ 19	80	1600 x 260 x 92	312	R2601/158HFW	1540 x 260 x 92	313	R2601/158HFW3	-
2 x 36W	≤ 1000 (65°)	≤ 19	70	1300 x 260 x 92	312	R2601/236HFW	1240 x 260 x 92	313	R2601/236HFW3	-
2 x 58W	≤ 1000 (65°)	≤ 19	70	1600 x 260 x 92	312	R2601/258HFW	1540 x 260 x 92	313	R2601/258HFW3	-
50° 1 x 36W	≤ 1000 (55°)	≤ 16	73	1300 x 260 x 92	312	R2631/136HFW	1240 x 260 x 92	313	R2631/136HFW3	-
1 x 58W	≤ 1000 (55°)	≤ 16	71	1600 x 260 x 92	312	R2631/158HFW	1540 x 260 x 92	313	R2631/158HFW3	-



Save up to 75% on energy
see p 236 up to 261



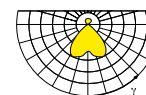
R259 / R260
1x T8 - Ø 26 mm



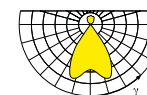
R259
1x T5 - Ø 16 mm



R259
2x T5 - Ø 16 mm



R260
2X T8 - Ø 26 mm



R263
T8 - Ø 26 mm

SURFACE MOUNTED AND SUSPENDED LUMINAIRES



R2, in line suspended - webref. SR2022A1

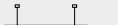
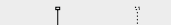
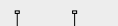
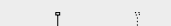
R2

suspended luminaire

individual

straight line mounting: through wiring (3 x 1,5 mm²): included as standard

Table explanation p 427

Note: Explanation p. 42											
lamp type	L _{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code white	L x W x H mm	plan N.	order code white	 option	
Reflector - satin-anodised aluminium - Isolum® baffles											
 T5 - Ø 16 mm											
60°	1 x 28W	≤ 1000 (65°)	≤ 19	91	1250 x 260 x 92	312	R2601/128HFW	1190 x 260 x 92	313	R2601/128HFW3	-
	1 x 35W	≤ 1000 (65°)	≤ 19	90	1550 x 260 x 92	312	R2601/135HFW	1490 x 260 x 92	313	R2601/135HFW3	-
	1 x 49W	≤ 1000 (65°)	≤ 22	93	1550 x 260 x 92	312	R2601/149HFW	1490 x 260 x 92	313	R2601/149HFW3	-
	1 x 54W	≤ 1000 (65°)	≤ 22	92	1250 x 260 x 92	312	R2601/154HFW	1190 x 260 x 92	313	R2601/154HFW3	-
	2 x 28W	≤ 1000 (65°)	≤ 19	84	1250 x 260 x 92	312	R2601/228HFW	1190 x 260 x 92	313	R2601/228HFW3	-
	2 x 35W	≤ 1000 (65°)	≤ 19	83	1550 x 260 x 92	312	R2601/235HFW	1490 x 260 x 92	313	R2601/235HFW3	-
	2 x 49W	≤ 1000 (65°)	≤ 19	86	1550 x 260 x 92	312	R2601/249HFW	1490 x 260 x 92	313	R2601/249HFW3	-
	2 x 54W	≤ 1000 (65°)	≤ 22	85	1250 x 260 x 92	312	R2601/254HFW	1190 x 260 x 92	313	R2601/254HFW3	-
50°	1 x 28W	≤ 200 (55°)	≤ 16	78	1250 x 260 x 92	312	R2631/128HFW	1190 x 260 x 92	313	R2631/128HFW3	-
	1 x 35W	≤ 200 (55°)	≤ 16	77	1550 x 260 x 92	312	R2631/135HFW	1490 x 260 x 92	313	R2631/135HFW3	-
	1 x 49W	≤ 200 (55°)	≤ 16	79	1550 x 260 x 92	312	R2631/149HFW	1490 x 260 x 92	313	R2631/149HFW3	-
	1 x 54W	≤ 1000 (55°)	≤ 16	78	1250 x 260 x 92	312	R2631/154HFW	1190 x 260 x 92	313	R2631/154HFW3	-
	2 x 28W	≤ 1000 (55°)	≤ 16	74	1250 x 260 x 92	312	R2631/228HFW	1190 x 260 x 92	313	R2631/228HFW3	-
	2 x 35W	≤ 1000 (55°)	≤ 16	74	1550 x 260 x 92	312	R2631/235HFW	1490 x 260 x 92	313	R2631/235HFW3	-
	2 x 49W	≤ 1000 (55°)	≤ 16	76	1550 x 260 x 92	312	R2631/249HFW	1490 x 260 x 92	313	R2631/249HFW3	-
	2 x 54W	≤ 1000 (55°)	≤ 16	75	1250 x 260 x 92	312	R2631/254HFW	1190 x 260 x 92	313	R2631/254HFW3	-
Reflector - satin-anodised aluminium - SLL baffles - asymmetric-beam distribution											
 T8 - Ø 26 mm											
60°	1 x 58W	-	-	79	1600 x 260 x 92	312	R2561/158HFW	1540 x 260 x 92	313	R2561/158HFW3	-



R260
1x T5 - Ø 16 mm



R260
2x T5 - Ø 16 mm



R263
1x T5 - Ø 16 mm



R263
2X T5 - Ø 16 mm



R256
T8 - Ø 26 mm



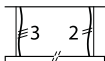
R2, suspended – webref. SR2023A1

R2

Accessories for suspended mounting

Suspension set with ceiling cap for individual luminaires

1 set per luminaire
contains all the accessories for 2 suspension points

	suspension set individual luminaires white power cable	R2H12/100-3
	suspension set individual luminaires white power cable and control cable for external dimming	R2H22/100-3

Suspension set with ceiling cap for in-line luminaires

1 set per suspension point
Hang the first luminaire on 2 suspension points and every next one on 1 suspension point
(number of suspension points per line = number of luminaires + 1)

	suspension set in-line luminaires	R2H32/100
	suspension set in-line luminaires white power cable	R2H32/100-3
	suspension set in-line luminaires control cable	R2H32/100-2

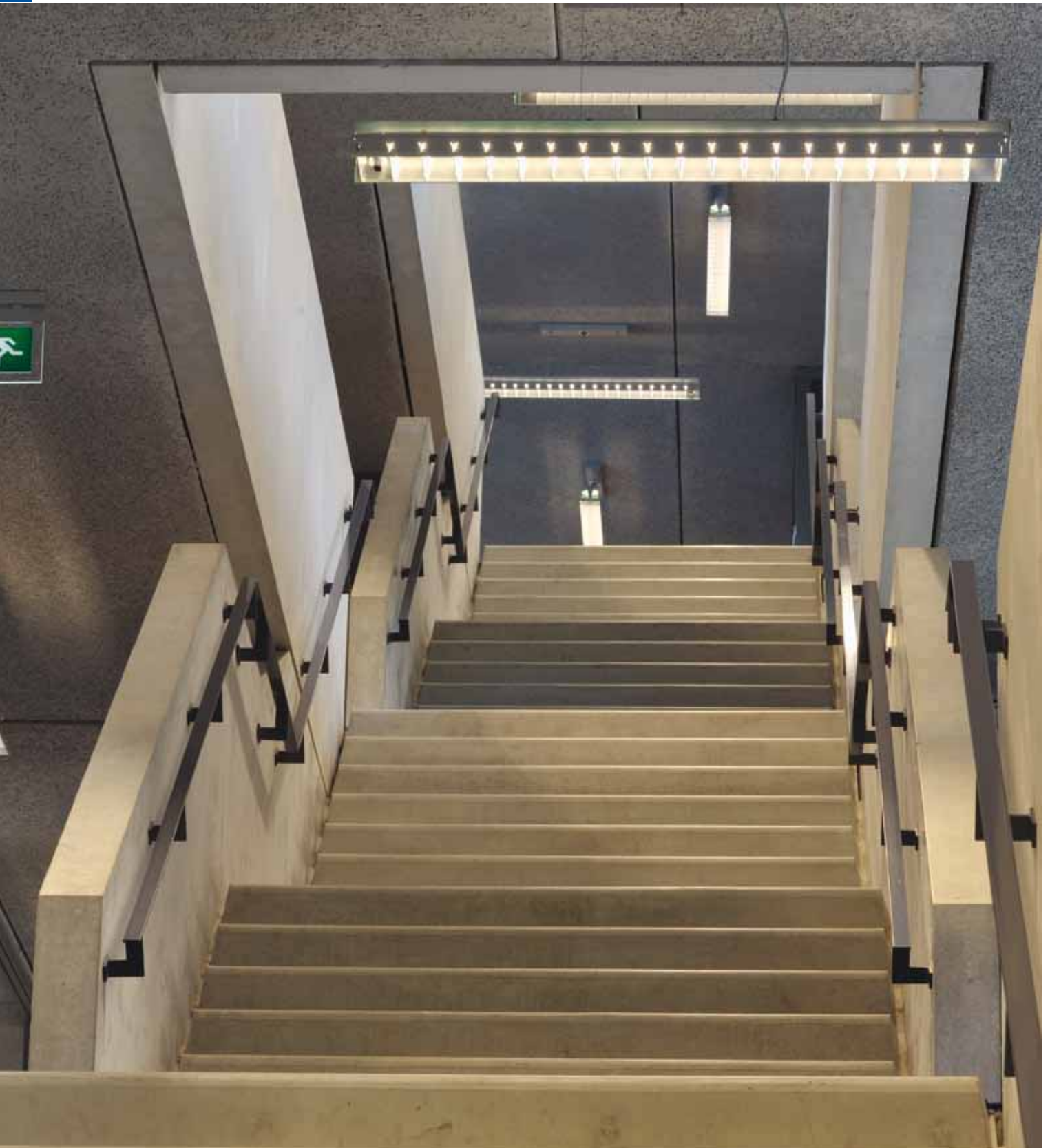
Accessories for in-line luminaires

Line end piece (2 per line), per piece	R2H4/1
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Save up to 75% on energy
see p 236 up to 261

SURFACE MOUNTED
AND SUSPENDED LUMINAIRES



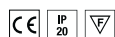
webref. SR3004M2



R3 - webref. SR3015A1



R3 - webref. SR3016A1



R3



Housing

Lacquered sheet steel and aluminium housing with hinged optics
Suspended mounting possible
RAL9006-white aluminium or RAL7016-antracite

Optic

Reflector - high reflection aluminium

Dimensional sketches p 396

surface mounted luminaire

Table explanation p 427

lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	option
Reflector - satin-anodised aluminium - Isolum® baffles							
 T8 - Ø 26 mm							
60° 1 x 36W	≤ 200 (65°)	≤ 19	77	1246 x 140 x 116	330	R3600/136HFW	-
1 x 58W	≤ 1000 (65°)	≤ 19	78	1546 x 140 x 116	330	R3600/158HFW	-
Reflector - satin-anodised aluminium - Isolum® baffles							
 T5 - Ø 16 mm							
60° 1 x 28W	≤ 200 (65°)	≤ 19	88	1196 x 140 x 116	330	R3600/128HFW	-
1 x 35W	≤ 200 (65°)	≤ 19	87	1496 x 140 x 116	330	R3600/135HFW	-
1 x 49W	≤ 200 (65°)	≤ 19	90	1496 x 140 x 116	330	R3600/149HFW	-
1 x 54W	≤ 1000 (65°)	≤ 19	87	1196 x 140 x 116	330	R3600/154HFW	-
2 x 28W	≤ 1000 (65°)	≤ 19	79	1196 x 140 x 116	330	R3600/228HFW	-
2 x 35W	≤ 1000 (65°)	≤ 19	78	1496 x 140 x 116	330	R3600/235HFW	-
2 x 49W	≤ 1000 (65°)	≤ 22	80	1496 x 140 x 116	330	R3600/249HFW	-
2 x 54W	≤ 1000 (65°)	≤ 22	79	1196 x 140 x 116	330	R3600/254HFW	-

¹ code + X2: luminaire in RAL9006-aluminium white / code + X5: luminaire in RAL7016-antracite

Accessories for suspended mounting

Suspension set

1 set per suspension point
Hang the first luminaire on 2 suspension points and every next one on 1 suspension point



suspension set with steel wires and 3-core black cable
for luminaire colour RAL7016-antracite

R3H1/100

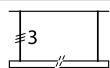
plan N. 331



suspension set with steel wires and 3-core grey cable
for luminaire colour RA9006-aluminium white

R3H2/100

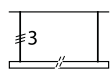
plan N. 331



suspension set with steel wires and 3-core black cable
for luminaire colour RAL7016-antracite

R3H3/100

plan N. 332



suspension set with steel wires and 3-core grey cable
for luminaire colour RA9006-aluminium white

R3H4/100

plan N. 332



Save up to 75% on energy
see p 236 up to 261



T8 - Ø 26 mm



T8 - Ø 26 mm



T8 - Ø 26 mm

SURFACE MOUNTED
AND SUSPENDED LUMINAIRES



R48, RAL9006 - webref. SR4020D2



R4M, RAL9003 - webref. SR4020C1



R4

	Housing	Lacquered sheet steel housing with hinged optics RAL9003-white or RAL9006-white aluminium
	Optic	Reflector - HRSilver™ - high reflection aluminium Diffuser - MesoOptics™ for high efficiency and light distribution

Dimensional sketches p 396

SQUARE

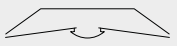
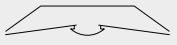
surface mounted luminaire - individual

Table explanation p 427

lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	 option
Comfort reflector - satin-anodised aluminium - Equilum® baffles							
 T5 - Ø 16 mm							
65° 3 x 14W	≤ 200 (65°)	≤ 19	87	669 x 669 x 60	354	R4870/314HFW	•
3 x 24W	≤ 200 (65°)	≤ 19	88	669 x 669 x 60	354	R4870/324HFW	•

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code ¹	 option
Diffuser - acrylic / MesoOptics™ film						
 T5 - Ø 16 mm						
2 x 24W	≤ 22	82	669 x 669 x 110	355	R4M00/224HFW	-
Diffuser - polycarbonate / MesoOptics™ film						
 T5 - Ø 16 mm						
2 x 24W	≤ 19	74	669 x 669 x 110	355	R4M00/224HFWT0	•

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

Save up to 75% on energy
see p 236 up to 261



R487



R4M

SURFACE MOUNTED AND SUSPENDED LUMINAIRES

R4 surface mounted, single and double lamp length - webref. SR4013E5

R4



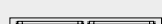
	Housing	Lacquered sheet steel housing with hinged optics RAL9003-white or RAL9006-white aluminium
	Optic	Reflector - HRSilver™ - high reflection aluminium Diffuser - HaloOptics® for high efficiency and light distribution

Dimensional sketches p 396

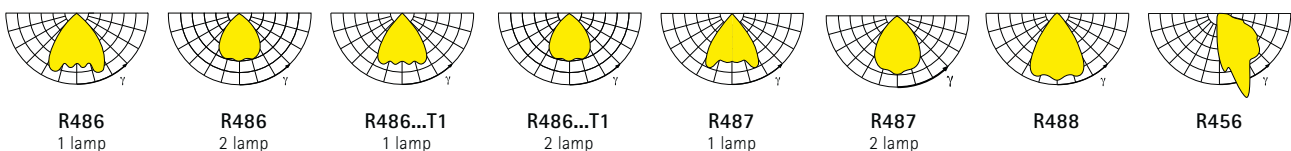
LINEAR

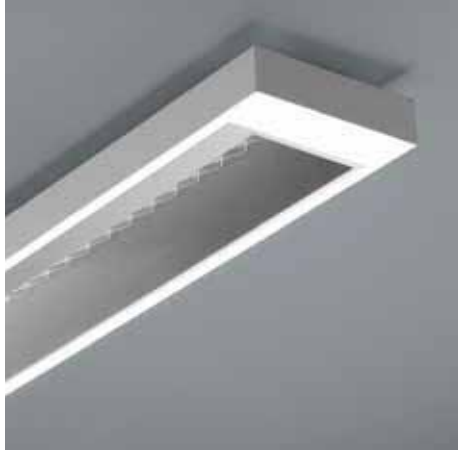
surface mounted luminaire - individual

Table explanation p 427

Standard reflector - satin-anodised aluminium - Equilum® baffles											
lamp type	L _{av.} - limit cd/m²		UGR	η %	L x W x H mm	plan N.		L x W x H mm	plan N.	order code¹	 option
Standard reflector - satin-anodised aluminium - Equilum® baffles - clear plastic cover											
											
T5 - Ø 16 mm											
65°	1 x 35W	≤ 1000 (65°)	≤ 19	80	1577 x 190 x 60	350	R4860/135HFWT1				•
	1 x 49W	≤ 1000 (65°)	≤ 19	80	1577 x 190 x 60	350	R4860/149HFWT1				•
	2 x 35W	≤ 1000 (65°)	≤ 22	71	1577 x 190 x 60	350	R4860/235HFWT1				•
Standard reflector - satin-anodised aluminium - Equilum® baffles											
											
T5 - Ø 16 mm											
65°	1 x 28W	≤ 1000 (65°)	≤ 19	91	1277 x 190 x 60	350	R4860/128HFW	2457 x 190 x 60	351	R48601/128HFW	•
	1 x 35W	≤ 1000 (65°)	≤ 19	91	1577 x 190 x 60	350	R4860/135HFW	3057 x 190 x 60	351	R48601/135HFW	•
	1 x 49W	≤ 1000 (65°)	≤ 22	91	1577 x 190 x 60	350	R4860/149HFW	3057 x 190 x 60	351	R48601/149HFW	•
	1 x 54W	-	≤ 22	91	1277 x 190 x 60	350	R4860/154HFW	2457 x 190 x 60	351	R48601/154HFW	•
	2 x 28W	-	≤ 22	80	1277 x 190 x 60	350	R4860/228HFW	2457 x 190 x 60	351	R48601/228HFW	•
	2 x 35W	-	≤ 22	80	1577 x 190 x 60	350	R4860/235HFW	3057 x 190 x 60	351	R48601/235HFW	•
	2 x 49W	-	≤ 22	80	1577 x 190 x 60	350	R4860/249HFW	3057 x 190 x 60	351	R48601/249HFW	•
	2 x 54W	-	≤ 25	80	1277 x 190 x 60	350	R4860/254HFW	2457 x 190 x 60	351	R48601/254HFW	•
Comfort reflector - satin-anodised aluminium - Equilum® baffles											
											
T5 - Ø 16 mm											
65°	1 x 28W	≤ 200 (65°)	≤ 19	86	1277 x 190 x 60	350	R4870/128HFW	2457 x 190 x 60	351	R48701/128HFW	•
	1 x 35W	≤ 200 (65°)	≤ 19	86	1577 x 190 x 60	350	R4870/135HFW	3057 x 190 x 60	351	R48701/135HFW	•
	1 x 49W	≤ 200 (65°)	≤ 19	86	1577 x 190 x 60	350	R4870/149HFW	3057 x 190 x 60	351	R48701/149HFW	•
	1 x 54W	≤ 200 (65°)	≤ 19	86	1277 x 190 x 60	350	R4870/154HFW	2457 x 190 x 60	351	R48701/154HFW	•
	2 x 28W	≤ 200 (65°)	≤ 22	76	1277 x 190 x 60	350	R4870/228HFW	2457 x 190 x 60	351	R48701/228HFW	•
	2 x 35W	≤ 200 (65°)	≤ 22	76	1577 x 190 x 60	350	R4870/235HFW	3057 x 190 x 60	351	R48701/235HFW	•
	2 x 49W	≤ 200 (65°)	≤ 22	76	1577 x 190 x 60	350	R4870/249HFW	3057 x 190 x 60	351	R48701/249HFW	•
	2 x 54W	≤ 1000 (65°)	≤ 22	76	1277 x 190 x 60	350	R4870/254HFW	2457 x 190 x 60	351	R48701/254HFW	•
CAD reflector - satin-anodised aluminium - Equilum® baffles											
											
T5 - Ø 16 mm											
55°	1 x 28W	≤ 1000 (55°)	≤ 16	79	1277 x 190 x 60	350	R4880/128HFW	2457 x 190 x 60	351	R48801/128HFW	•
	1 x 35W	≤ 1000 (55°)	≤ 16	79	1577 x 190 x 60	350	R4880/135HFW	3057 x 190 x 60	351	R48801/135HFW	•
	1 x 49W	≤ 1000 (55°)	≤ 16	79	1577 x 190 x 60	350	R4880/149HFW	3057 x 190 x 60	351	R48801/149HFW	•
	1 x 54W	≤ 200 (65°)	≤ 19	79	1277 x 190 x 60	350	R4880/154HFW	2457 x 190 x 60	351	R48801/154HFW	•
Reflector - satin-anodised aluminium - SLL baffles - asymmetric-beam distribution											
											
T5 - Ø 16 mm											
90°	1 x 35W	-	-	86	1577 x 190 x 75	350	R4560/135HFW				•
	1 x 49W	-	-	89	1577 x 190 x 75	350	R4560/149HFW				•

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white





R4, asymmetric-beam distribution - webref. SR4013F1



R4, HaloOptics® - webref. SR4019A1

R4

LINEAR

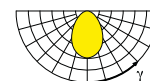
surface mounted luminaire - individual

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code ¹	 option
Diffuser - acrylic / HaloOptics®						
 T5 - Ø 16 mm						
1 x 28W	≤ 25	93	1277 x 190 x 60	350	R4F00/128HFW	-
1 x 35W	≤ 25	97	1577 x 190 x 60	350	R4F00/135HFW	-
2 x 28W	≤ 25	76	1277 x 190 x 60	350	R4F00/228HFW	-
2 x 35W	≤ 25	75	1577 x 190 x 60	350	R4F00/235HFW	-
Diffuser - polycarbonate / HaloOptics®						
 T5 - Ø 16 mm						
1 x 28W	≤ 25	87	1277 x 190 x 60	350	R4J00/128HFW	•
1 x 35W	≤ 25	91	1577 x 190 x 60	350	R4J00/135HFW	•
2 x 28W	≤ 25	71	1277 x 190 x 60	350	R4J00/228HFW	•
2 x 35W	≤ 25	71	1577 x 190 x 60	350	R4J00/235HFW	•

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

Save up to 75% on energy
see p 236 up to 261



R4F / R4J

SURFACE MOUNTED AND SUSPENDED LUMINAIRES





R48 - webref. SR4013B3

R4

LINEAR
surface mounted luminaire - straight line mounting
through wiring (3 x 1.5 mm²): included as standard

Table explanation p 427

lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	L x W x H mm	plan N.	order code ¹	option
Standard reflector - satin-anodised aluminium - Equilum® baffles - clear plastic cover										
  										
T5 - Ø 16 mm										
65° 1 x 35W	≤ 1000 (65°)	≤ 19	80	1529 x 190 x 60	352	R4862/135HFWT1	1480 x 190 x 60	352	R4864/135HFWT1	-
1 x 49W	≤ 1000 (65°)	≤ 19	80	1529 x 190 x 60	352	R4862/149HFWT1	1480 x 190 x 60	352	R4864/149HFWT1	-
2 x 35W	≤ 1000 (65°)	≤ 22	71	1529 x 190 x 60	352	R4862/235HFWT1	1480 x 190 x 60	352	R4864/235HFWT1	-
Standard reflector - satin-anodised aluminium - Equilum® baffles										
  										
T5 - Ø 16 mm										
65° 1 x 28W	≤ 1000 (65°)	≤ 19	91	1229 x 190 x 60	352	R4862/128HFW	1180 x 190 x 60	352	R4864/128HFW	-
1 x 35W	≤ 1000 (65°)	≤ 19	91	1529 x 190 x 60	352	R4862/135HFW	1480 x 190 x 60	352	R4864/135HFW	-
1 x 49W	≤ 1000 (65°)	≤ 22	91	1529 x 190 x 60	352	R4862/149HFW	1480 x 190 x 60	352	R4864/149HFW	-
1 x 54W	-	≤ 22	91	1229 x 190 x 60	352	R4862/154HFW	1180 x 190 x 60	352	R4864/154HFW	-
2 x 28W	-	≤ 22	80	1229 x 190 x 60	352	R4862/228HFW	1180 x 190 x 60	352	R4864/228HFW	-
2 x 35W	-	≤ 22	80	1529 x 190 x 60	352	R4862/235HFW	1480 x 190 x 60	352	R4864/235HFW	-
2 x 49W	-	≤ 22	80	1529 x 190 x 60	352	R4862/249HFW	1480 x 190 x 60	352	R4864/249HFW	-
2 x 54W	-	≤ 25	80	1229 x 190 x 60	352	R4862/254HFW	1180 x 190 x 60	352	R4864/254HFW	-
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
  										
T5 - Ø 16 mm										
65° 1 x 28W	≤ 200 (65°)	≤ 19	86	1229 x 190 x 60	352	R4872/128HFW	1180 x 190 x 60	352	R4874/128HFW	-
1 x 35W	≤ 200 (65°)	≤ 19	86	1529 x 190 x 60	352	R4872/135HFW	1480 x 190 x 60	352	R4874/135HFW	-
1 x 49W	≤ 200 (65°)	≤ 19	86	1529 x 190 x 60	352	R4872/149HFW	1480 x 190 x 60	352	R4874/149HFW	-
1 x 54W	≤ 200 (65°)	≤ 19	86	1229 x 190 x 60	352	R4872/154HFW	1180 x 190 x 60	352	R4874/154HFW	-
2 x 28W	≤ 200 (65°)	≤ 22	76	1229 x 190 x 60	352	R4872/228HFW	1180 x 190 x 60	352	R4874/228HFW	-
2 x 35W	≤ 200 (65°)	≤ 22	76	1529 x 190 x 60	352	R4872/235HFW	1480 x 190 x 60	352	R4874/235HFW	-
2 x 49W	≤ 200 (65°)	≤ 22	76	1529 x 190 x 60	352	R4872/249HFW	1480 x 190 x 60	352	R4874/249HFW	-
2 x 54W	≤ 1000 (65°)	≤ 22	76	1229 x 190 x 60	352	R4872/254HFW	1180 x 190 x 60	352	R4874/254HFW	-
CAD reflector - satin-anodised aluminium - Equilum® baffles										
  										
T5 - Ø 16 mm										
55° 1 x 28W	≤ 1000 (55°)	≤ 16	79	1229 x 190 x 60	352	R4882/128HFW	1180 x 190 x 60	352	R4884/128HFW	-
1 x 35W	≤ 1000 (55°)	≤ 16	79	1529 x 190 x 60	352	R4882/135HFW	1480 x 190 x 60	352	R4884/135HFW	-
1 x 49W	≤ 1000 (55°)	≤ 16	79	1529 x 190 x 60	352	R4882/149HFW	1480 x 190 x 60	352	R4884/149HFW	-
1 x 54W	≤ 200 (65°)	≤ 19	79	1229 x 190 x 60	352	R4882/154HFW	1180 x 190 x 60	352	R4884/154HFW	-

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

R486
1 lamp



R486
2 lamp



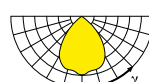
R486...T1
1 lamp



R486...T1
2 lamp



R487
1 lamp



R487
2 lamp



R488

SURFACE MOUNTED AND SUSPENDED LUMINAIRES

R4, HaloOptics® - webref. SR4019A2

R4

LINEAR

surface mounted luminaire - straight line mounting

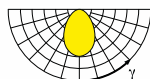
through wiring (3 x 1.5 mm²): included as standard

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code ¹	L x W x H mm	plan N.	order code ¹	option
Diffuser - acrylic / HaloOptics®									
 T5 - Ø 16 mm									
1 x 28W	≤ 25	93	1229 x 190 x 60	352	R4F02/128HFW	1180 x 190 x 60	352	R4F04/128HFW	-
1 x 35W	≤ 25	97	1529 x 190 x 60	352	R4F02/135HFW	1480 x 190 x 60	352	R4F04/135HFW	-
2 x 28W	≤ 25	76	1229 x 190 x 60	352	R4F02/228HFW	1180 x 190 x 60	352	R4F04/228HFW	-
2 x 35W	≤ 25	75	1529 x 190 x 60	352	R4F02/235HFW	1480 x 190 x 60	352	R4F04/235HFW	-
Diffuser - polycarbonate / HaloOptics®									
 T5 - Ø 16 mm									
1 x 28W	≤ 25	87	1229 x 190 x 60	352	R4J02/128HFW	1180 x 190 x 60	352	R4J04/128HFW	-
1 x 35W	≤ 25	91	1529 x 190 x 60	352	R4J02/135HFW	1480 x 190 x 60	352	R4J04/135HFW	-
2 x 28W	≤ 25	71	1229 x 190 x 60	352	R4J02/228HFW	1180 x 190 x 60	352	R4J04/228HFW	-
2 x 35W	≤ 25	71	1529 x 190 x 60	352	R4J02/235HFW	1480 x 190 x 60	352	R4J04/235HFW	-

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

R4, reflector - webref. SR4013H3



R4F / R4J



R4 straight line mounting angular - webref. SR4013H4



R4 - webref. SR4013H1

R4

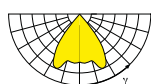
LINEAR

surface mounted luminaire - straight line mounting - angular

through wiring (3 x 1.5 mm²): included as standard

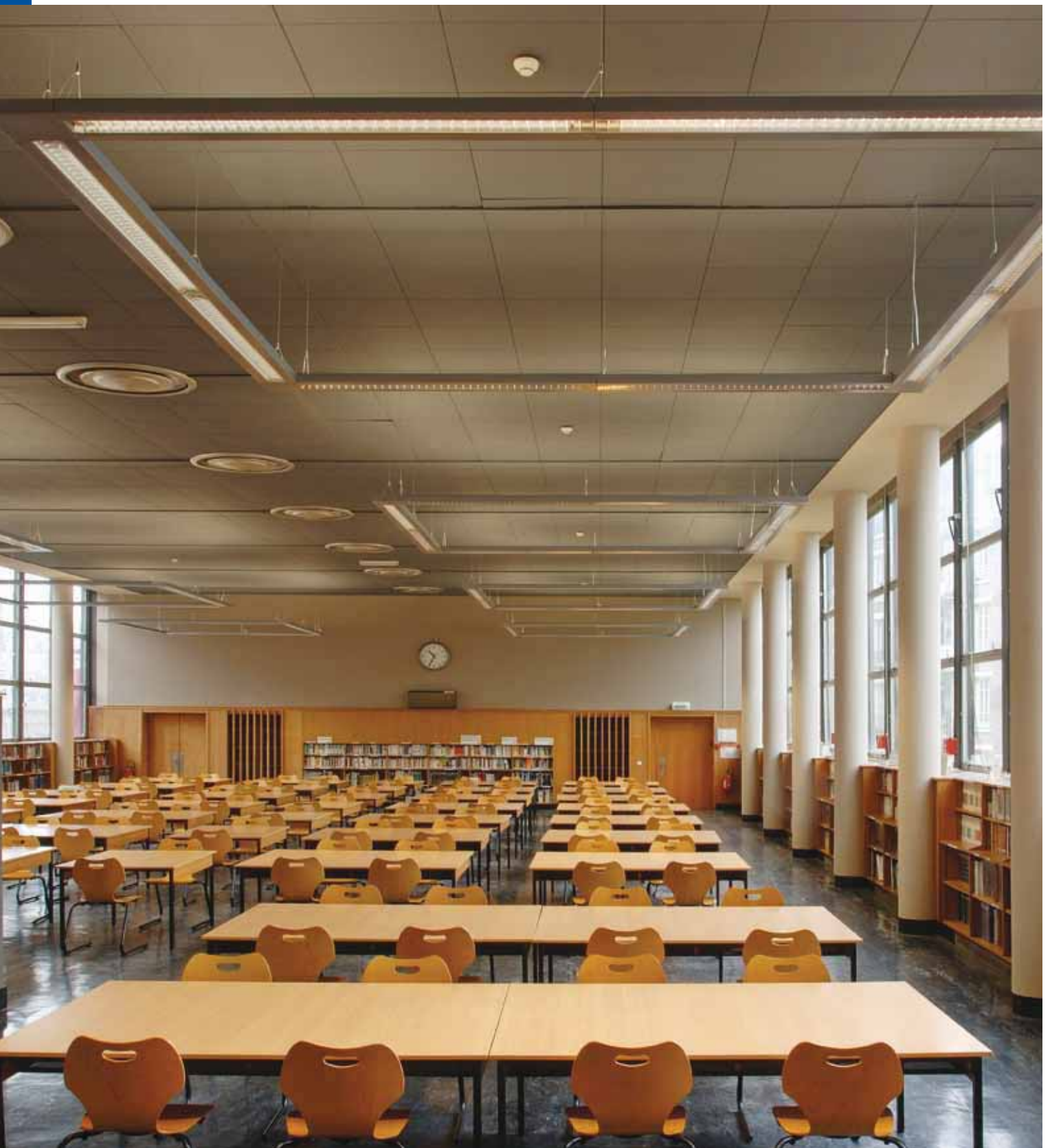
Table explanation p 427

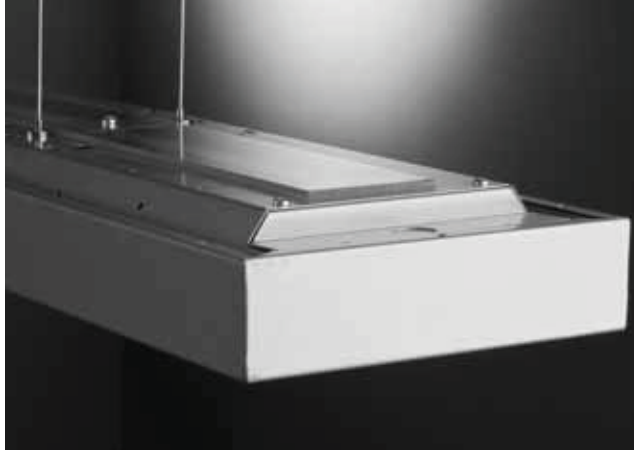
lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	L x W x H mm	plan N.	order code ¹	option
Standard reflector - satin-anodised aluminium - Equilum® baffles - clear plastic cover										
 T5 - Ø 16 mm										
65° 1 x 35W	≤ 1000 (65°)	≤ 19	76	1529 x 190 x 60	353	R4862/135HFWT1	1480 x 190 x 60	353	R4864/135HFWT1	R4864/135HFWT1 -
1 x 49W	≤ 1000 (65°)	-	76	1529 x 190 x 60	353	R4862/149HFWT1	1480 x 190 x 60	353	R4864/149HFWT1	R4864/149HFWT1 -
2 x 35W	≤ 1000 (65°)	≤ 22	76	1529 x 190 x 60	353	R4862/235HFWT1	1480 x 190 x 60	353	R4864/235HFWT1	R4864/235HFWT1 -
Standard reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
65° 1 x 28W	≤ 1000 (65°)	≤ 19	91	1229 x 190 x 60	353	R4866/128HFW	1180 x 190 x 60	353	R4868/128HFW	R48680/128HFW -
1 x 35W	≤ 1000 (65°)	≤ 19	91	1529 x 190 x 60	353	R4866/135HFW	1480 x 190 x 60	353	R4868/135HFW	R48680/135HFW -
1 x 49W	≤ 1000 (65°)	≤ 22	91	1529 x 190 x 60	353	R4866/149HFW	1480 x 190 x 60	353	R4868/149HFW	R48680/149HFW -
1 x 54W	-	≤ 22	91	1229 x 190 x 60	353	R4866/154HFW	1180 x 190 x 60	353	R4868/154HFW	R48680/154HFW -
2 x 28W	-	≤ 22	80	1229 x 190 x 60	353	R4866/228HFW	1180 x 190 x 60	353	R4868/228HFW	R48680/228HFW -
2 x 35W	-	≤ 22	80	1529 x 190 x 60	353	R4866/235HFW	1480 x 190 x 60	353	R4868/235HFW	R48680/235HFW -
2 x 49W	-	≤ 22	80	1529 x 190 x 60	353	R4866/249HFW	1480 x 190 x 60	353	R4868/249HFW	R48680/249HFW -
2 x 54W	-	≤ 25	80	1229 x 190 x 60	353	R4866/254HFW	1180 x 190 x 60	353	R4868/254HFW	R48680/254HFW -
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
65° 1 x 28W	≤ 200 (65°)	≤ 19	86	1229 x 190 x 60	353	R4876/128HFW	1180 x 190 x 60	353	R4878/128HFW	R48780/128HFW -
1 x 35W	≤ 200 (65°)	≤ 19	86	1529 x 190 x 60	353	R4876/135HFW	1480 x 190 x 60	353	R4878/135HFW	R48780/135HFW -
1 x 49W	≤ 200 (65°)	≤ 19	86	1529 x 190 x 60	353	R4876/149HFW	1480 x 190 x 60	353	R4878/149HFW	R48780/149HFW -
1 x 54W	≤ 200 (65°)	≤ 19	86	1229 x 190 x 60	353	R4876/154HFW	1180 x 190 x 60	353	R4878/154HFW	R48780/154HFW -
2 x 28W	≤ 200 (65°)	≤ 22	76	1229 x 190 x 60	353	R4876/228HFW	1180 x 190 x 60	353	R4878/228HFW	R48780/228HFW -
2 x 35W	≤ 200 (65°)	≤ 22	76	1529 x 190 x 60	353	R4876/235HFW	1480 x 190 x 60	353	R4878/235HFW	R48780/235HFW -
2 x 49W	≤ 200 (65°)	≤ 22	76	1529 x 190 x 60	353	R4876/249HFW	1480 x 190 x 60	353	R4878/249HFW	R48780/249HFW -
2 x 54W	≤ 1000 (65°)	≤ 22	76	1229 x 190 x 60	353	R4876/254HFW	1180 x 190 x 60	353	R4878/254HFW	R48780/254HFW -
CAD reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
55° 1 x 28W	≤ 1000 (55°)	≤ 16	79	1229 x 190 x 60	353	R4886/128HFW	1180 x 190 x 60	353	R4888/128HFW	R48880/128HFW -
1 x 35W	≤ 1000 (55°)	≤ 16	79	1529 x 190 x 60	353	R4886/135HFW	1480 x 190 x 60	353	R4888/135HFW	R48880/135HFW -
1 x 49W	≤ 1000 (55°)	≤ 16	79	1529 x 190 x 60	353	R4886/149HFW	1480 x 190 x 60	353	R4888/149HFW	R48880/149HFW -
1 x 54W	≤ 200 (65°)	≤ 19	79	1229 x 190 x 60	353	R4886/154HFW	1180 x 190 x 60	353	R4888/154HFW	R48880/154HFW -

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium whiteR486
1 lampR486
2 lampR486...T1
1 lampR486...T1
2 lampR487
1 lampR487
2 lamp

R488

SURFACE MOUNTED
AND SUSPENDED LUMINAIRES





R4 with uplight - webref. SR4013D8



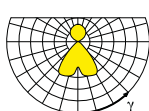
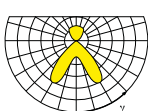
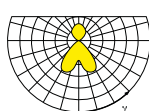
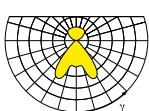
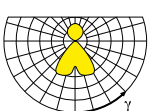
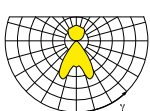
R4 suspension, single and double lamp length - webref. SR4013D5

R4

LINEAR suspended luminaire - individual

Table explanation p 427

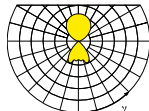
lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	L x W x H mm	plan N.	order code ¹	option
Standard reflector - satin-anodised aluminium - Equilum® baffles - clear plastic cover										
 TS - Ø 16 mm										
65° 1 x 35W	≤ 1000 (65°)	≤ 16	86	1577 x 190 x 60	356	R4861/135HFWT1				•
1 x 49W	≤ 1000 (65°)	≤ 16	86	1577 x 190 x 60	356	R4861/149HFWT1				•
2 x 35W	≤ 1000 (65°)	≤ 16	84	1577 x 190 x 60	356	R4861/235HFWT1				•
Standard reflector - satin-anodised aluminium - Equilum® baffles										
 TS - Ø 16 mm										
65° 1 x 28W	≤ 1000 (65°)	≤ 16	87	1277 x 190 x 60	356	R4861/128HFW	2457 x 190 x 60	357	R48611/128HFW	•
1 x 35W	≤ 1000 (65°)	≤ 16	87	1577 x 190 x 60	356	R4861/135HFW	3057 x 190 x 60	357	R48611/135HFW	•
1 x 49W	≤ 1000 (65°)	≤ 16	87	1577 x 190 x 60	356	R4861/149HFW	3057 x 190 x 60	357	R48611/149HFW	•
1 x 54W	≤ 1000 (65°)	≤ 16	87	1277 x 190 x 60	356	R4861/154HFW	2457 x 190 x 60	357	R48611/154HFW	•
2 x 28W	≤ 1000 (65°)	≤ 19	89	1277 x 190 x 60	356	R4861/228HFW	2457 x 190 x 60	357	R48611/228HFW	•
2 x 35W	≤ 1000 (65°)	≤ 19	89	1577 x 190 x 60	356	R4861/235HFW	3057 x 190 x 60	357	R48611/235HFW	•
2 x 49W	-	≤ 19	89	1577 x 190 x 60	356	R4861/249HFW	3057 x 190 x 60	357	R48611/249HFW	•
2 x 54W	-	≤ 19	89	1277 x 190 x 60	356	R4861/254HFW	2457 x 190 x 60	357	R48611/254HFW	•
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
 TS - Ø 16 mm										
65° 1 x 28W	≤ 200 (65°)	≤ 16	87	1277 x 190 x 60	356	R4871/128HFW	2457 x 190 x 60	357	R48711/128HFW	•
1 x 35W	≤ 200 (65°)	≤ 16	87	1577 x 190 x 60	356	R4871/135HFW	3057 x 190 x 60	357	R48711/135HFW	•
1 x 49W	≤ 200 (65°)	≤ 16	87	1577 x 190 x 60	356	R4871/149HFW	3057 x 190 x 60	357	R48711/149HFW	•
1 x 54W	≤ 1000 (65°)	≤ 16	87	1277 x 190 x 60	356	R4871/154HFW	2457 x 190 x 60	357	R48711/154HFW	•
2 x 28W	≤ 200 (65°)	≤ 16	86	1277 x 190 x 60	356	R4871/228HFW	2457 x 190 x 60	357	R48711/228HFW	•
2 x 35W	≤ 200 (65°)	≤ 16	86	1577 x 190 x 60	356	R4871/235HFW	3057 x 190 x 60	357	R48711/235HFW	•
2 x 49W	≤ 1000 (65°)	≤ 16	86	1577 x 190 x 60	356	R4871/249HFW	3057 x 190 x 60	357	R48711/249HFW	•
2 x 54W	≤ 1000 (65°)	≤ 19	86	1277 x 190 x 60	356	R4871/254HFW	2457 x 190 x 60	357	R48711/254HFW	•
CAD reflector - satin-anodised aluminium - Equilum® baffles										
 TS - Ø 16 mm										
55° 1 x 28W	≤ 1000 (55°)	≤ 16	84	1277 x 190 x 60	356	R4881/128HFW	2457 x 190 x 60	357	R48811/128HFW	•
1 x 35W	≤ 1000 (55°)	≤ 16	84	1577 x 190 x 60	356	R4881/135HFW	3057 x 190 x 60	357	R48811/135HFW	•
1 x 49W	≤ 1000 (55°)	≤ 16	84	1577 x 190 x 60	356	R4881/149HFW	3057 x 190 x 60	357	R48811/149HFW	•
1 x 54W	≤ 1000 (65°)	≤ 16	84	1277 x 190 x 60	356	R4881/154HFW	2457 x 190 x 60	357	R48811/154HFW	•
Reflector - satin-anodised aluminium - SLL baffles - asymmetric-beam distribution										
 TS - Ø 16 mm										
90° 1 x 35W	-	-	86	1577 x 190 x 75	356	R4561/135HFW				•
1 x 49W	-	-	89	1577 x 190 x 75	356	R4561/149HFW				•
Reflector - satin-anodised aluminium - Equilum® baffles - individually switchable up- and downlights										
 TS - Ø 16 mm										
60° 3 x 28W	≤ 1000 (65°)	≤ 16	88	1345 x 250 x 60	359	R4901/328HFW ²				-

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white² code + X2: luminaire in RAL9006-aluminium whiteR486
1 lampR486
2 lampR486...T1
1 lampR486...T1
2 lampR487
1 lampR487
2 lamp

R488



R456



R49

SURFACE MOUNTED AND SUSPENDED LUMINAIRES



R4, HaloOptics® - webref. R4019B1

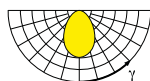
R4

LINEAR suspended luminaire - individual

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code ¹	 option
Diffuser - acrylic / HaloOptics®						
 T5 - Ø 16 mm						
1 x 28W	≤ 19	93	1277 x 190 x 60	356	R4F01/128HFW	-
1 x 35W	≤ 19	95	1577 x 190 x 60	356	R4F01/135HFW	-
2 x 28W	≤ 22	88	1277 x 190 x 60	356	R4F01/228HFW	-
2 x 35W	≤ 22	85	1577 x 190 x 60	356	R4F01/235HFW	-
Diffuser - polycarbonate / HaloOptics®						
 T5 - Ø 16 mm						
1 x 28W	≤ 19	89	1277 x 190 x 60	356	R4J01/128HFW	•
1 x 35W	≤ 19	91	1577 x 190 x 60	356	R4J01/135HFW	•
2 x 28W	≤ 22	84	1277 x 190 x 60	356	R4J01/228HFW	•
2 x 35W	≤ 22	81	1577 x 190 x 60	356	R4J01/235HFW	•

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white



R4F / R4J



R4 suspension, straight line mounting - webref. SR4013C2

R4

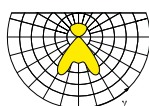
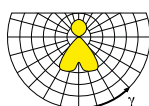
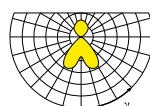
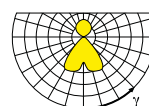
LINEAR

suspended luminaire - straight line mounting

through wiring (3 x 1.5 mm²): included as standard

Table explanation p 427

lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	L x W x H mm	plan N.	order code ¹	option
Standard reflector - satin-anodised aluminium - Equilum® baffles - clear plastic cover										
 TS - Ø 16 mm										
65° 1 x 35W	≤ 1000 (65°)	≤ 16	86	1529 x 190 x 60	358	R4863/135HFWT1	1480 x 190 x 60	358	R4865/135HFWT1	-
1 x 49W	≤ 1000 (65°)	≤ 16	86	1529 x 190 x 60	358	R4863/149HFWT1	1480 x 190 x 60	358	R4865/149HFWT1	-
2 x 35W	≤ 1000 (65°)	≤ 16	84	1529 x 190 x 60	358	R4863/235HFWT1	1480 x 190 x 60	358	R4865/235HFWT1	-
Standard reflector - satin-anodised aluminium - Equilum® baffles										
 TS - Ø 16 mm										
65° 1 x 28W	≤ 1000 (65°)	≤ 16	87	1229 x 190 x 60	358	R4863/128HFW	1180 x 190 x 60	358	R4865/128HFW	-
1 x 35W	≤ 1000 (65°)	≤ 16	87	1529 x 190 x 60	358	R4863/135HFW	1480 x 190 x 60	358	R4865/135HFW	-
1 x 49W	≤ 1000 (65°)	≤ 16	87	1529 x 190 x 60	358	R4863/149HFW	1480 x 190 x 60	358	R4865/149HFW	-
1 x 54W	≤ 1000 (65°)	≤ 16	87	1229 x 190 x 60	358	R4863/154HFW	1180 x 190 x 60	358	R4865/154HFW	-
2 x 28W	≤ 1000 (65°)	≤ 19	89	1229 x 190 x 60	358	R4863/228HFW	1180 x 190 x 60	358	R4865/228HFW	-
2 x 35W	≤ 1000 (65°)	≤ 19	89	1529 x 190 x 60	358	R4863/235HFW	1480 x 190 x 60	358	R4865/235HFW	-
2 x 49W	-	≤ 19	89	1529 x 190 x 60	358	R4863/249HFW	1480 x 190 x 60	358	R4865/249HFW	-
2 x 54W	-	≤ 19	89	1229 x 190 x 60	358	R4863/254HFW	1180 x 190 x 60	358	R4865/254HFW	-
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
 TS - Ø 16 mm										
65° 1 x 28W	≤ 200 (65°)	≤ 16	87	1229 x 190 x 60	358	R4873/128HFW	1180 x 190 x 60	358	R4875/128HFW	-
1 x 35W	≤ 200 (65°)	≤ 16	87	1529 x 190 x 60	358	R4873/135HFW	1480 x 190 x 60	358	R4875/135HFW	-
1 x 49W	≤ 200 (65°)	≤ 16	87	1529 x 190 x 60	358	R4873/149HFW	1480 x 190 x 60	358	R4875/149HFW	-
1 x 54W	≤ 1000 (65°)	≤ 16	87	1229 x 190 x 60	358	R4873/154HFW	1180 x 190 x 60	358	R4875/154HFW	-
2 x 28W	≤ 200 (65°)	≤ 16	86	1229 x 190 x 60	358	R4873/228HFW	1180 x 190 x 60	358	R4875/228HFW	-
2 x 35W	≤ 200 (65°)	≤ 16	86	1529 x 190 x 60	358	R4873/235HFW	1480 x 190 x 60	358	R4875/235HFW	-
2 x 49W	≤ 1000 (65°)	≤ 16	86	1529 x 190 x 60	358	R4873/249HFW	1480 x 190 x 60	358	R4875/249HFW	-
2 x 54W	≤ 1000 (65°)	≤ 19	86	1229 x 190 x 60	358	R4873/254HFW	1180 x 190 x 60	358	R4875/254HFW	-
CAD reflector - satin-anodised aluminium - Equilum® baffles										
 TS - Ø 16 mm										
55° 1 x 28W	≤ 1000 (55°)	≤ 16	84	1229 x 190 x 60	358	R4883/128HFW	1180 x 190 x 60	358	R4885/128HFW	-
1 x 35W	≤ 1000 (55°)	≤ 16	84	1529 x 190 x 60	358	R4883/135HFW	1480 x 190 x 60	358	R4885/135HFW	-
1 x 49W	≤ 1000 (55°)	≤ 16	84	1529 x 190 x 60	358	R4883/149HFW	1480 x 190 x 60	358	R4885/149HFW	-
1 x 54W	≤ 200 (65°)	≤ 16	84	1229 x 190 x 60	358	R4883/154HFW	1180 x 190 x 60	358	R4885/154HFW	-

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium whiteR486
1 lampR486
2 lampR486...T1
1 lampR486...T1
2 lampR487
1 lampR487
2 lamp

R488

SURFACE MOUNTED
AND SUSPENDED LUMINAIRES



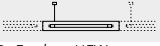


R4, HaloOptics® - webref. SR4019B2

R4

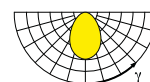
LINEAR
suspended luminaire - straight line mounting
through wiring (3 x 1,5 mm²): included as standard

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code ¹	L x W x H mm	plan N.	order code ¹	 option
Diffuser - acrylic / HaloOptics®									
 T5 - Ø 16 mm 									
1 x 28W	≤ 19	93	1229 x 190 x 60	358	R4F03/128HFW	1180 x 190 x 60	358	R4F05/128HFW	-
1 x 35W	≤ 19	95	1529 x 190 x 60	358	R4F03/135HFW	1480 x 190 x 60	358	R4F05/135HFW	-
2 x 28W	≤ 22	88	1229 x 190 x 60	358	R4F03/228HFW	1180 x 190 x 60	358	R4F05/228HFW	-
2 x 35W	≤ 22	85	1529 x 190 x 60	358	R4F03/235HFW	1480 x 190 x 60	358	R4F05/235HFW	-
Diffuser - polycarbonate / HaloOptics®									
 T5 - Ø 16 mm 									
1 x 28W	≤ 19	89	1229 x 190 x 60	358	R4J03/128HFW	1180 x 190 x 60	358	R4J05/128HFW	-
1 x 35W	≤ 19	91	1529 x 190 x 60	358	R4J03/135HFW	1480 x 190 x 60	358	R4J05/135HFW	-
2 x 28W	≤ 22	84	1229 x 190 x 60	358	R4J03/228HFW	1180 x 190 x 60	358	R4J05/228HFW	-
2 x 35W	≤ 22	81	1529 x 190 x 60	358	R4J03/235HFW	1480 x 190 x 60	358	R4J05/235HFW	-

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

Save up to 75% on energy
see p 236 up to 261



R4F / R4J

SURFACE MOUNTED AND SUSPENDED LUMINAIRES

R4 suspension, straight line mounting angular - webref. SR401314

R4

LINEAR

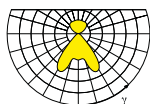
suspended luminaire - straight line mounting - angular

through wiring (3 x 1.5 mm²): included as standard

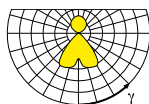
Table explanation p 427

lamp type	L _{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	L x W x H mm	plan N.	order code ¹	option
Standard reflector - satin-anodised aluminium - Equilum® baffles - clear plastic cover										
T5 - Ø 16 mm										
65° 1 x 35W	≤ 1000 (65°)	≤ 16	86	1529 x 190 x 60	360	R4863/135HFWT1	1480 x 190 x 60		R4865/135HFWT1	R4865/135HFWT1 -
1 x 49W	≤ 1000 (65°)	≤ 16	86	1529 x 190 x 60	360	R4863/149HFWT1	1480 x 190 x 60		R4865/149HFWT1	R4865/149HFWT1 -
2 x 35W	≤ 1000 (65°)	≤ 16	84	1529 x 190 x 60	360	R4863/235HFWT1	1480 x 190 x 60		R4865/235HFWT1	R4865/235HFWT1 -
Standard reflector - satin-anodised aluminium - Equilum® baffles										
T5 - Ø 16 mm										
65° 1 x 28W	≤ 1000 (65°)	≤ 16	87	1229 x 190 x 60	360	R4867/128HFW	1180 x 190 x 60	360	R4869/128HFW	R48690/128HFW -
1 x 35W	≤ 1000 (65°)	≤ 16	87	1529 x 190 x 60	360	R4867/135HFW	1480 x 190 x 60	360	R4869/135HFW	R48690/135HFW -
1 x 49W	≤ 1000 (65°)	≤ 16	87	1529 x 190 x 60	360	R4867/149HFW	1480 x 190 x 60	360	R4869/149HFW	R48690/149HFW -
1 x 54W	≤ 1000 (65°)	≤ 16	87	1229 x 190 x 60	360	R4867/154HFW	1180 x 190 x 60	360	R4869/154HFW	R48690/154HFW -
2 x 28W	≤ 1000 (65°)	≤ 19	89	1229 x 190 x 60	360	R4867/228HFW	1180 x 190 x 60	360	R4869/228HFW	R48690/228HFW -
2 x 35W	≤ 1000 (65°)	≤ 19	89	1529 x 190 x 60	360	R4867/235HFW	1480 x 190 x 60	360	R4869/235HFW	R48690/235HFW -
2 x 49W	-	≤ 19	89	1529 x 190 x 60	360	R4867/249HFW	1480 x 190 x 60	360	R4869/249HFW	R48690/249HFW -
2 x 54W	-	≤ 19	89	1229 x 190 x 60	360	R4867/254HFW	1180 x 190 x 60	360	R4869/254HFW	R48690/254HFW -
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
T5 - Ø 16 mm										
65° 1 x 28W	≤ 200 (65°)	≤ 16	87	1229 x 190 x 60	360	R4877/128HFW	1180 x 190 x 60	360	R4879/128HFW	R48790/128HFW -
1 x 35W	≤ 200 (65°)	≤ 16	87	1529 x 190 x 60	360	R4877/135HFW	1480 x 190 x 60	360	R4879/135HFW	R48790/135HFW -
1 x 49W	≤ 200 (65°)	≤ 16	87	1529 x 190 x 60	360	R4877/149HFW	1480 x 190 x 60	360	R4879/149HFW	R48790/149HFW -
1 x 54W	≤ 1000 (65°)	≤ 16	87	1229 x 190 x 60	360	R4877/154HFW	1180 x 190 x 60	360	R4879/154HFW	R48790/154HFW -
2 x 28W	≤ 200 (65°)	≤ 16	86	1229 x 190 x 60	360	R4877/228HFW	1180 x 190 x 60	360	R4879/228HFW	R48790/228HFW -
2 x 35W	≤ 200 (65°)	≤ 16	86	1529 x 190 x 60	360	R4877/235HFW	1480 x 190 x 60	360	R4879/235HFW	R48790/235HFW -
2 x 49W	≤ 1000 (65°)	≤ 16	86	1529 x 190 x 60	360	R4877/249HFW	1480 x 190 x 60	360	R4879/249HFW	R48790/249HFW -
2 x 54W	≤ 1000 (65°)	≤ 19	86	1229 x 190 x 60	360	R4877/254HFW	1180 x 190 x 60	360	R4879/254HFW	R48790/254HFW -
CAD reflector - satin-anodised aluminium - Equilum® baffles										
T5 - Ø 16 mm										
55° 1 x 28W	≤ 1000 (55°)	≤ 16	84	1229 x 190 x 60	360	R4887/128HFW	1180 x 190 x 60	360	R4889/128HFW	R48890/128HFW -
1 x 35W	≤ 1000 (55°)	≤ 16	84	1529 x 190 x 60	360	R4887/135HFW	1480 x 190 x 60	360	R4889/135HFW	R48890/135HFW -
1 x 49W	≤ 1000 (55°)	≤ 16	84	1529 x 190 x 60	360	R4887/149HFW	1480 x 190 x 60	360	R4889/149HFW	R48890/149HFW -
1 x 54W	≤ 200 (65°)	≤ 16	84	1229 x 190 x 60	360	R4887/154HFW	1180 x 190 x 60	360	R4889/154HFW	R48890/154HFW -

¹ code + X1: luminaire in RAL003-white / code + X2: luminaire in RAL9006-aluminium white



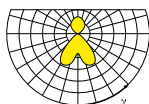
R486
1 lamp



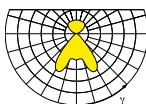
R486
2 lamp



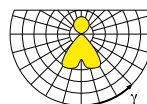
R486...T1
1 lamp



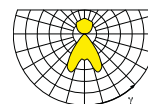
R486...T1
2 lamp



R487
1 lamp



R487
2 lamp



R488



webref. SR4013J3

webref. SR4003J1

webref. SR4003J2

webref. SR4003J4

webref. SR4003J6

Options and accessories

Suspension sets: 1 steel wire per mounting point

R4

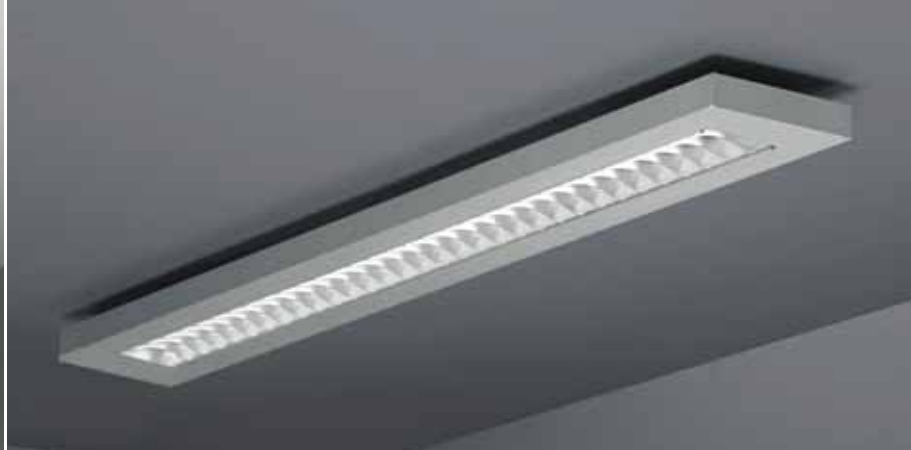
Individual luminaires 1 set contains all accessories for 2 suspension points			 no power supply	 common power supply	 external dimming or emergency unit	 external dimming and emergency unit
	2x minimalist mounting transparent power cable	-		R4H15/100-3	R4H15/100-5	R4H15/100-7
	minimalist mounting + ceiling cap transparent power cable	RAL9003-white	-	R4H16/100-3X1	R4H16/100-5X1	
		RAL9006-aluminium white	-	R4H16/100-3X2	R4H16/100-5X2	
	2x ceiling cap transparent power cable	RAL9003-white	-	R4H16/100-3X10	R4H16/100-5X10	R4H16/100-7X10
		RAL9006-aluminium white	-	R4H16/100-3X20	R4H16/100-5X20	R4H16/100-7X20
	2x loop transparent power cable		R4H13/100	R4H13/100-3	-	-
Luminaires for in-line assembly 1 set Suspend the 1st luminaire from 2 points and each subsequent one from 1 suspension point (number of suspension points/straight line = number of luminaires + 1)			 no power supply	 external dimming or emergency unit	 common power supply	 power supply + external dimming + emergency unit
	minimalist mounting		R4H25/100	R4H25/100-2	R4H25/100-3	R4H25/100-5
	ceiling cap	RAL9003-white	R4H26/100X1	R4H26/100-2X1	R4H26/100-3X1	R4H26/100-5X1
		RAL9006-aluminium white	R4H26/100X2	R4H26/100-2X2	R4H26/100-3X2	R4H26/100-5X2
Suspension sets: 2 steel wires per mounting point				 common power supply	 external dimming or emergency unit	 external dimming and emergency unit
Individual luminaires 1 set contains all accessories for 2 suspension points						
	2x minimalist bracket transparent power cable	RAL9003-white		R4H11/100-3X1	R4H11/100-5X1	R4H11/100-7X1
		RAL9006-aluminium white		R4H11/100-3X2	R4H11/100-5X2	R4H11/100-7X2
	minimalist bracket + ceiling cap transparent power cable	RAL9003-white		R4H12/100-3X1	R4H12/100-5X1	-
		RAL 9006-aluminium white		R4H12/100-3X2	R4H12/100-5X2	-
	2x ceiling cap transparent power cable	RAL9003-white		R4H12/100-3X10	R4H12/100-5X10	R4H12/100-7X10
		RAL 9006-aluminium white		R4H12/100-3X20	R4H12/100-5X20	R4H12/100-7X20
Luminaires for in-line mounting 1 set Suspend the 1st luminaire from 2 points and each subsequent one from 1 suspension point (number of suspension points/straight line = number of luminaires + 1)			 no power supply	 external dimming or emergency unit	 common power supply	 power supply + external dimming + emergency unit
	minimalist bracket	RAL9003-white	R4H21/100X1	R4H21/100-2X1	R4H21/100-3X1	R4H21/100-5X1
		RAL9006-aluminium white	R4H21/100X2	R4H21/100-2X2	R4H21/100-3X2	R4H21/100-5X2
	ceiling cap	RAL9003-white	R4H22/100X1	R4H22/100-2X1	R4H22/100-3X1	R4H22/100-5X1
		RAL9006-aluminium white	R4H22/100X2	R4H22/100-2X2	R4H22/100-3X2	R4H22/100-5X2
Rod suspension sets				 common power supply	 external dimming or emergency unit	 power supply + external dimming + emergency unit
Individual luminaires 1 set contains all accessories for 2 suspension points						
	2x rod	RAL9003-white	-	R4H14/050-3X1	R4H14/050-5X1	R4H14/050-7X1
		RAL9006-aluminium white	-	R4H14/050-3X2	R4H14/050-5X2	R4H14/050-7X2
Luminaires for in-line assembly 1 set Suspend the 1st luminaire from 2 points and each subsequent one from 1 suspension point (number of suspension points/straight line = number of luminaires + 1)			 no power supply	 external dimming or emergency unit	 common power supply	 external dimming or emergency unit
	1x rod	RAL9003-white	R4H24/050-0X1	R4H24/050-2X1	R4H24/050-3X1	R4H24/050-5X1
		RAL9006-aluminium white	R4H24/050-0X2	R4H24/050-2X2	R4H24/050-3X2	R4H24/050-5X2
Coupling piece 90°		RAL9003-white				R4H4/90X1
		RAL9006-aluminium white				R4H4/90X2
Cable channel		for surface mounted luminaires				upon request

SURFACE MOUNTED
AND SUSPENDED LUMINAIRES





R5 reflector suspension - webref. SR5001A1



R5 reflector surface mounted - webref. SR5002A1



R5

	Housing	Lacquered sheet steel housing
	Optic	Reflector - HRSilver™ - high reflection aluminium Diffuser - MesoOptics™ for high efficiency and light distribution

Dimensional sketches p 396

surface mounted luminaire - individual

Table explanation p 427

lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	 option
Comfort reflector - satin-anodised aluminium - Equilum® baffles							
 T5 - Ø 16 mm							
65° 1 x 28W	≤ 200 (65°)	≤ 19	81	1300 x 173 x 55	404	R5870/128HFW	•
1 x 35W	≤ 200 (65°)	≤ 19	86	1600 x 173 x 55	404	R5870/135HFW	•
1 x 49W	≤ 200 (65°)	≤ 19	84	1600 x 173 x 55	404	R5870/149HFW	•
1 x 54W	≤ 200 (65°)	≤ 19	86	1300 x 173 x 55	404	R5870/154HFW	•

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

suspended luminaire - individual

Table explanation p 427

lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	 option
Comfort reflector - satin-anodised aluminium - Equilum® baffles							
 T5 - Ø 16 mm							
65° 1 x 28W	≤ 200 (65°)	≤ 16	82	1300 x 173 x 55	402	R5871/128HFW	•
1 x 35W	≤ 200 (65°)	≤ 16	87	1600 x 173 x 55	402	R5871/135HFW	•
1 x 49W	≤ 200 (65°)	≤ 16	85	1600 x 173 x 55	402	R5871/149HFW	•
1 x 54W	≤ 1000 (65°)	≤ 16	87	1300 x 173 x 55	402	R5871/154HFW	•

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

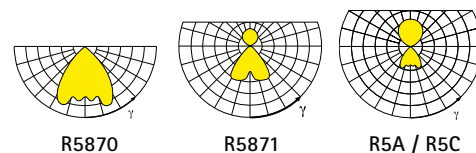
suspended luminaire - individual

Table explanation p 427

lamp type	η %	L x W x H mm	plan N.	order code ¹	 option
Diffuser - acrylic / MesoOptics™ film					
  T5 - Ø 16 mm					
2 x 28W	58	1300 x 220 x 35	400	R5A01/228HFW	-
Diffuser - polycarbonate / MesoOptics™ film					
  T5 - Ø 16 mm					
2 x 28W	55	1300 x 220 x 35	400	R5C01/228HFW	•

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

Save up to 75% on energy
see p 236 up to 261



SURFACE MOUNTED AND SUSPENDED LUMINAIRES

R5 reflector individual and straight line mounting - webref. SR5001B2

R5

surface mounted luminaire - straight line mounting

Table explanation p 427

lamp type	$L_{av.}$ - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	L x W x H mm	plan N.	order code ¹	 option
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
65° 1 x 28W	≤ 200 (65°)	≤ 19	81	1240 x 173 x 55	405	R5872/128HFW	1180 x 173 x 55	405	R5874/128HFW	-
1 x 35W	≤ 200 (65°)	≤ 19	86	1540 x 173 x 55	405	R5872/135HFW	1480 x 173 x 55	405	R5874/135HFW	-
1 x 49W	≤ 200 (65°)	≤ 19	84	1540 x 173 x 55	405	R5872/149HFW	1480 x 173 x 55	405	R5874/149HFW	-
1 x 54W	≤ 200 (65°)	≤ 19	86	1240 x 173 x 55	405	R5872/154HFW	1180 x 173 x 55	405	R5874/154HFW	-

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

suspended luminaire - straight line mounting

Table explanation p 427

lamp type	$L_{av.}$ - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	L x W x H mm	plan N.	order code ¹	 option
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
65° 1 x 28W	≤ 200 (65°)	≤ 16	82	1240 x 173 x 55	403	R5873/128HFW	1180 x 173 x 55	403	R5875/128HFW	-
1 x 35W	≤ 200 (65°)	≤ 16	87	1540 x 173 x 55	403	R5873/135HFW	1480 x 173 x 55	403	R5875/135HFW	-
1 x 49W	≤ 200 (65°)	≤ 16	85	1540 x 173 x 55	403	R5873/149HFW	1480 x 173 x 55	403	R5875/149HFW	-
1 x 54W	≤ 1000 (65°)	≤ 16	87	1240 x 173 x 55	403	R5873/154HFW	1180 x 173 x 55	403	R5875/154HFW	-

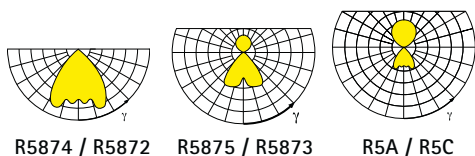
¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

suspended luminaire - straight line mounting

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code ¹	L x W x H mm	plan N.	order code ¹	 option
Diffuser - acrylic / MesoOptics™ film									
 T5 - Ø 16 mm									
2 x 28W	≤ 16	58	1300 x 220 x 35	401	R5A03/228HFW	1300 x 220 x 35	401	R5A05/228HFW	-
Diffuser - polycarbonate / MesoOptics™ film									
 T5 - Ø 16 mm									
2 x 28W	≤ 16	55	1300 x 220 x 35	401	R5C03/228HFW	1300 x 220 x 35	401	R5C05/228HFW	-

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white





R5 uplight - webref. SR5003D1

R5

Options and accessories

Suspension sets: 2 steel wires per mounting set

Individual luminaires 1 set contains all accessories for 2 suspension points						
			common power supply	external dimming or emergency unit	external dimming and emergency unit	
	2x minimalist bracket transparent power cable	RAL9003-white	R5H11/100-3X1	R5H11/100-5X1	R5H11/100-7X1	
		RAL9006-aluminium white	R5H11/100-3X2	R5H11/100-5X2	R5H11/100-7X2	
	minimalistic bracket + ceiling cap transparent power cable	RAL9003-white	R5H12/100-3X1	R5H12/100-5X1	-	
		RAL9006-aluminium white	R5H12/100-3X2	R5H12/100-5X2	-	
	2x ceiling cap transparent power cable	RAL9003-white	R5H12/100-3X10	R5H12/100-5X10	R5H12/100-7X10	
		RAL9006-aluminium white	R5H12/100-3X20	R5H12/100-5X20	R5H12/100-7X20	
Luminaires for in-line assembly 1 set Suspend the 1st luminaire from 2 points and each subsequent one from 1 suspension point (number of suspension points/straight line = number of luminaires + 1)						
			no power supply	external dimming or emergency unit	common power supply	power supply + external dimming + emergency unit
	minimalist mounting	RAL9003-white	R5H21/100X1	R5H21/100-2X1	R5H21/100-3X1	R5H21/100-5X1
		RAL9006-aluminium white	R5H21/100X2	R5H21/100-2X2	R5H21/100-3X2	R5H21/100-5X2
	ceiling cap	RAL9003-white	R5H22/100X1	R5H22/100-2X1	R5H22/100-3X1	R5H22/100-5X1
		RAL9006-aluminium white	R5H22/100X2	R5H22/100-2X2	R5H22/100-3X2	R5H22/100-5X2



Save up to 75% on energy
see p 236 up to 261

webref. SR5003D2

SURFACE MOUNTED
AND SUSPENDED LUMINAIRES





R8, end piece - webref. SR8011G7



R8 surface mounted, straight line mounting - webref. SR8011B1



R8



Housing

Aluminium profile: RAL9003-white
Diffuse lamp shielding - HaloOptics® for high efficiency

Dimensional sketches p 396

surface mounted luminaire

individual

straight line mounting: through wiring (3 x 1,5 mm²): included as standard

Table explanation p 427

lamp type	UGR	η %	L x Ø mm	plan N.	order code white	L x Ø mm	plan N.	order code white	option
Diffuser - acrylic / HaloOptics®									
650 °C T5 - Ø 16 mm									
1 x 28W	-	93	1192 x 90	450	R8F00/128HFW	1180 x 90	451	R8F02/128HFW	-
1 x 35W	-	96	1492 x 90	450	R8F00/135HFW	1480 x 90	451	R8F02/135HFW	-
2 x 28W	-	91	1192 x 90	450	R8F00/228HFW	1180 x 90	451	R8F02/228HFW	-
2 x 35W	-	92	1492 x 90	450	R8F00/235HFW	1480 x 90	451	R8F02/235HFW	-
Diffuser - polycarbonate / HaloOptics®									
960 °C T5 - Ø 16 mm									
1 x 28W	-	87	1192 x 90	450	R8J00/128HFW	1180 x 90	451	R8J02/128HFW	●1
1 x 35W	-	89	1492 x 90	450	R8J00/135HFW	1480 x 90	451	R8J02/135HFW	●1
2 x 28W	-	84	1192 x 90	450	R8J00/228HFW	1180 x 90	451	R8J02/228HFW	●1
2 x 35W	-	85	1492 x 90	450	R8J00/235HFW	1480 x 90	451	R8J02/235HFW	●1

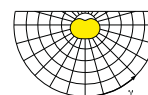
¹ only for individual luminaire



Save up to 75% on energy
see p 236 up to 261

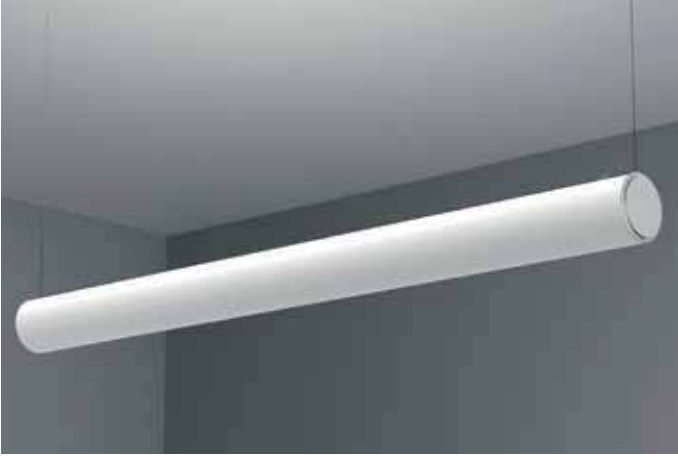


R8F / R8J
1x T5 - Ø 16 mm



R8F / R8J
2x T5 - Ø 16 mm

SURFACE MOUNTED AND SUSPENDED LUMINAIRES



R8 suspended individual - webref. SR8011C1

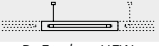
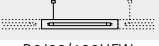
R8

suspended luminaire

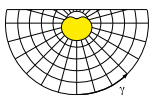
individual

straight line mounting: through wiring (3 x 1,5 mm²): included as standard

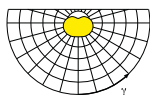
Table explanation p 427

lamp type	UGR	η %	L x Ø mm	plan N.	order code	L x Ø mm	plan N.	order code	 option
Diffuser - acrylic / HaloOptics®									
 T5 - Ø 16 mm									
1 x 28W	-	93	1192 x 90	452	R8F01/128HFW	1180 x 90	453	R8F03/128HFW	-
1 x 35W	-	96	1492 x 90	452	R8F01/135HFW	1480 x 90	453	R8F03/135HFW	-
2 x 28W	-	91	1192 x 90	452	R8F01/228HFW	1180 x 90	453	R8F03/228HFW	-
2 x 35W	-	92	1492 x 90	452	R8F01/235HFW	1480 x 90	453	R8F03/235HFW	-
Diffuser - polycarbonate / HaloOptics®									
 T5 - Ø 16 mm									
1 x 28W	-	87	1192 x 90	452	R8J01/128HFW	1180 x 90	453	R8J03/128HFW	● ¹
1 x 35W	-	89	1492 x 90	452	R8J01/135HFW	1480 x 90	453	R8J03/135HFW	● ²
2 x 28W	-	84	1192 x 90	452	R8J01/228HFW	1180 x 90	453	R8J03/228HFW	●
2 x 35W	-	85	1492 x 90	452	R8J01/235HFW	1480 x 90	453	R8J03/235HFW	● ²

¹ only for individual luminaire HFW
² only for individual luminaire



R8F / R8J
1x T5 - Ø 16 mm



R8F / R8J
2x T5 - Ø 16 mm



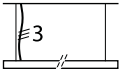
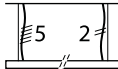
R8 suspension - webref. SR8011F1

R8, suspension straight line mounting - webref. SR8011F2

R8

Options and accessories

Suspension sets for individual luminaires

1 set per luminaire contains all the accessories for 2 suspension points		 common power supply	 external dimming or emergency unit	 external dimming and emergency unit
 + 	2x minimalist mounting transparent power cable	R8H11/100-3	R8H11/100-5	R8H11/100-7
 + 	minimalist mounting + ceiling cap transparent power cable	R8H12/100-3	R8H12/100-5	
 + 	2x ceiling cap transparent power cable			R8H12/100-7

Suspension sets for in-line luminaires

1 set per suspension point Suspend the 1st luminaire from 2 points and each subsequent one from 1 suspension point (number of suspension points/straight line = number of luminaires + 1)		 no power supply	 external dimming or emergency unit	 common power supply	 power supply + external dimming + emergency unit
	suspension set minimalist mounting	R8H21/100	R8H21/100-2	R8H21/100-3	R8H21/100-5
	suspension set ceiling cap		R8H22/100-2	R8H22/100-3	R8H22/100-5
End piece (2 per line), per piece				surface mounted	R8H3-1
				suspended	R8H3-2



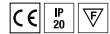
Save up to 75% on energy
see p 236 up to 261

SURFACE MOUNTED AND SUSPENDED LUMINAIRES



RJ55 - webref. SRJ015A1

RJ55



	Housing	Lacquered sheet steel housing with optics
	Optic	Reflector - high reflection aluminium

Dimensional sketches p 396

surface mounted luminaire

Table explanation p 427

lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code	 option	
Reflector - satin-anodised aluminium - SLL baffles								
 TC-S								
60°	2 x 11W	≤ 1000 (65°)	≤ 19	66	294 x 294 x 94	490	RJ55/211HFW	-





RT1, 1 lamp and 2 lamp - webref. SRT1011G



RT1

	Housing	Lacquered sheet steel housing with hinged optics White housing RAL9003 with grey end pieces RAL7047 or housing and end pieces in RAL9006-aluminium white
	Optic	Reflector - high reflection aluminium

Dimensional sketches p 396

surface mounted luminaire - individual

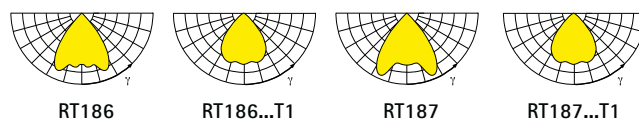
Table explanation p 427

lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	 option
Standard reflector - satin-anodised aluminium - Equilum® baffles							
 T5 - Ø 16 mm							
65° 1 x 28W	≤ 1000 (65°)	≤ 19	85	1185 x 120 x 99	500	RT1860/128HFW	-
1 x 35W	≤ 1000 (65°)	≤ 19	85	1485 x 120 x 99	500	RT1860/135HFW	-
1 x 49W	≤ 1000 (65°)	≤ 22	85	1485 x 120 x 99	500	RT1860/149HFW	-
1 x 54W	≤ 1000 (65°)	≤ 22	85	1185 x 120 x 99	500	RT1860/154HFW	-
2 x 28W	-	≤ 22	77	1185 x 120 x 99	500	RT1860/228HFWT1	-
2 x 35W	-	≤ 22	77	1485 x 120 x 99	500	RT1860/235HFWT1	-
Standard reflector - satin-anodised aluminium - Equilum® baffles							
 T5 - Ø 16 mm							
65° 2 x 28W	≤ 1000 (65°)	≤ 19	85	1185 x 204 x 99	501	RT1860/228HFW	-
2 x 35W	≤ 1000 (65°)	≤ 19	85	1485 x 204 x 99	501	RT1860/235HFW	-
2 x 49W	≤ 1000 (65°)	≤ 22	85	1485 x 204 x 99	501	RT1860/249HFW	-
2 x 54W	≤ 1000 (65°)	≤ 22	85	1185 x 204 x 99	501	RT1860/254HFW	-
Comfort reflector - satin-anodised aluminium - Equilum® baffles							
 T5 - Ø 16 mm							
65° 1 x 28W	≤ 200 (65°)	≤ 19	82	1185 x 120 x 99	500	RT1870/128HFW	-
1 x 35W	≤ 200 (65°)	≤ 19	82	1485 x 120 x 99	500	RT1870/135HFW	-
1 x 49W	≤ 200 (65°)	≤ 19	82	1485 x 120 x 99	500	RT1870/149HFW	-
1 x 54W	≤ 200 (65°)	≤ 19	82	1185 x 120 x 99	500	RT1870/154HFW	-
2 x 28W	≤ 200 (65°)	≤ 19	72	1185 x 204 x 99	500	RT1870/228HFWT1	-
2 x 35W	≤ 200 (65°)	≤ 19	72	1485 x 204 x 99	500	RT1870/235HFWT1	-
Comfort reflector - satin-anodised aluminium - Equilum® baffles							
 T5 - Ø 16 mm							
65° 2 x 28W	≤ 200 (65°)	≤ 19	82	1185 x 204 x 99	501	RT1870/228HFW	-
2 x 35W	≤ 200 (65°)	≤ 19	82	1485 x 204 x 99	501	RT1870/235HFW	-
2 x 49W	≤ 200 (65°)	≤ 19	82	1485 x 204 x 99	501	RT1870/249HFW	-
2 x 54W	≤ 200 (65°)	≤ 19	82	1185 x 204 x 99	501	RT1870/254HFW	-

¹ code + X1: luminaire in RAL9003-white with end pieces in RAL7047-grey
/ code + X2: luminaire and end pieces in RAL9006-aluminium white



Save up to 75% on energy
see p 236 up to 261



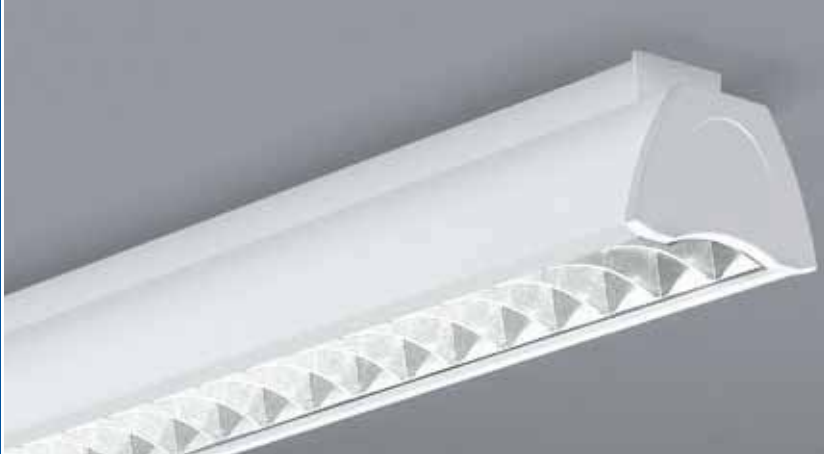
RT186

RT186...T1

RT187

RT187...T1

SURFACE MOUNTED AND SUSPENDED LUMINAIRES



RT1 reflector – webref. SRT1011E

RT1

surface mounted luminaire – individual

Table explanation p 427

lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	 option	
CAD reflector - satin-anodised aluminium - Equilum® baffles								
 T5 - Ø 16 mm								
55°	1 x 28W	≤ 1000 (55°)	≤ 16	75	1185 x 120 x 99	500	RT1880/128HFW	-
	1 x 35W	≤ 1000 (55°)	≤ 16	75	1485 x 120 x 99	500	RT1880/135HFW	-
	1 x 49W	≤ 1000 (55°)	≤ 16	75	1485 x 120 x 99	500	RT1880/149HFW	-
	1 x 54W	≤ 1000 (55°)	≤ 19	75	1185 x 120 x 99	500	RT1880/154HFW	-
CAD reflector - satin-anodised aluminium - Equilum® baffles								
 T5 - Ø 16 mm								
55°	2 x 28W	≤ 1000 (55°)	≤ 16	75	1185 x 204 x 99	501	RT1880/228HFW	-
	2 x 35W	≤ 1000 (55°)	≤ 16	75	1485 x 204 x 99	501	RT1880/235HFW	-
	2 x 49W	≤ 1000 (55°)	≤ 16	75	1485 x 204 x 99	501	RT1880/249HFW	-
	2 x 54W	≤ 1000 (55°)	≤ 19	75	1185 x 204 x 99	501	RT1880/254HFW	-

¹ code + X1: luminaire in RAL9003-white with end pieces in RAL7047-grey /
code + X2: luminaire and end pieces in RAL9006-aluminium white

surface mounted luminaire – straight line mounting

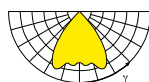
Table explanation p 427

lamp type	L_{av} – limit cd/ m ²	UGR	η %	L x W x H mm	plan N.	order code	L x W x H mm	plan N.	order code ¹	 option	
Standard reflector - satin-anodised aluminium - Equilum® baffles											
 T5 - Ø 16 mm											
65°	1 x 28W	≤ 1000 (65°)	≤ 19	85	1185 x 120 x 99	500	RT1863/128HFW	1185 x 120 x 99	500	RT1861/128HFW	-
	1 x 35W	≤ 1000 (65°)	≤ 19	85	1485 x 120 x 99	500	RT1863/135HFW	1485 x 120 x 99	500	RT1861/135HFW	-
	1 x 49W	≤ 1000 (65°)	≤ 22	85	1485 x 120 x 99	500	RT1863/149HFW	1485 x 120 x 99	500	RT1861/149HFW	-
	1 x 54W	≤ 1000 (65°)	≤ 22	85	1185 x 120 x 99	500	RT1863/154HFW	1185 x 120 x 99	500	RT1861/154HFW	-
	2 x 28W	-	≤ 22	77	1185 x 120 x 99	500	RT1863/228HFWT1	1185 x 120 x 99	500	RT1861/228HFWT1	-
	2 x 35W	-	≤ 22	77	1485 x 120 x 99	500	RT1863/235HFWT1	1485 x 120 x 99	500	RT1861/235HFWT1	-
Standard reflector - satin-anodised aluminium - Equilum® baffles											
 T5 - Ø 16 mm											
65°	2 x 28W	≤ 1000 (65°)	≤ 19	85	1185 x 204 x 99	501	RT1863/228HFW	1185 x 204 x 99	501	RT1861/228HFW	-
	2 x 35W	≤ 1000 (65°)	≤ 19	85	1485 x 204 x 99	501	RT1863/235HFW	1485 x 204 x 99	501	RT1861/235HFW	-
	2 x 49W	≤ 1000 (65°)	≤ 22	85	1485 x 204 x 99	501	RT1863/249HFW	1485 x 204 x 99	501	RT1861/249HFW	-
	2 x 54W	≤ 1000 (65°)	≤ 22	85	1185 x 204 x 99	501	RT1863/254HFW	1185 x 204 x 99	501	RT1861/254HFW	-

¹ code + X1: luminaire in RAL9003-white with end pieces in RAL7047-grey /
code + X2: luminaire and end pieces in RAL9006-aluminium white



RT188



RT186



RT186...T1



RT1 straight line mounting - webref. SRT1014A

RT1

surface mounted luminaire - straight line mounting

Table explanation p 427

lamp type	L_{av} - limit cd/ m ²	UGR	η %	L x W x H mm	plan N.	order code	L x W x H mm	plan N.	order code ¹	 option
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
65° 1 x 28W	≤ 200 (65°)	≤ 19	82	1185 x 120 x 99	500	RT1873/128HFW	1185 x 120 x 99	500	RT1871/128HFW	-
1 x 35W	≤ 200 (65°)	≤ 19	82	1485 x 120 x 99	500	RT1873/135HFW	1485 x 120 x 99	500	RT1871/135HFW	-
1 x 49W	≤ 200 (65°)	≤ 19	82	1485 x 120 x 99	500	RT1873/149HFW	1485 x 120 x 99	500	RT1871/149HFW	-
1 x 54W	≤ 200 (65°)	≤ 19	82	1185 x 120 x 99	500	RT1873/154HFW	1185 x 120 x 99	500	RT1871/154HFW	-
2 x 28W	≤ 200 (65°)	≤ 19	72	1185 x 204 x 99	500	RT1873/228HFWT1	1185 x 204 x 99	500	RT1871/228HFWT1	-
2 x 35W	≤ 200 (65°)	≤ 19	72	1485 x 204 x 99	500	RT1873/235HFWT1	1485 x 204 x 99	500	RT1871/235HFWT1	-
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
65° 2 x 28W	≤ 200 (65°)	≤ 19	82	1185 x 204 x 99	501	RT1873/228HFW	1185 x 204 x 99	501	RT1871/228HFW	-
2 x 35W	≤ 200 (65°)	≤ 19	82	1485 x 204 x 99	501	RT1873/235HFW	1485 x 204 x 99	501	RT1871/235HFW	-
2 x 49W	≤ 200 (65°)	≤ 19	82	1485 x 204 x 99	501	RT1873/249HFW	1485 x 204 x 99	501	RT1871/249HFW	-
2 x 54W	≤ 200 (65°)	≤ 19	82	1185 x 204 x 99	501	RT1873/254HFW	1185 x 204 x 99	501	RT1871/254HFW	-
CAD reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
55° 1 x 28W	≤ 1000 (55°)	≤ 16	75	1185 x 120 x 99	500	RT1883/128HFW	1185 x 120 x 99	500	RT1881/128HFW	-
1 x 35W	≤ 1000 (55°)	≤ 16	75	1485 x 120 x 99	500	RT1883/135HFW	1485 x 120 x 99	500	RT1881/135HFW	-
1 x 49W	≤ 1000 (55°)	≤ 16	75	1485 x 120 x 99	500	RT1883/149HFW	1485 x 120 x 99	500	RT1881/149HFW	-
1 x 54W	≤ 1000 (55°)	≤ 19	75	1185 x 120 x 99	500	RT1883/154HFW	1185 x 120 x 99	500	RT1881/154HFW	-
CAD reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
55° 2 x 28W	≤ 1000 (55°)	≤ 16	75	1185 x 204 x 99	501	RT1883/228HFW	1185 x 204 x 99	501	RT1881/228HFW	-
2 x 35W	≤ 1000 (55°)	≤ 16	75	1485 x 204 x 99	501	RT1883/235HFW	1485 x 204 x 99	501	RT1881/235HFW	-
2 x 49W	≤ 1000 (55°)	≤ 16	75	1485 x 204 x 99	501	RT1883/249HFW	1485 x 204 x 99	501	RT1881/249HFW	-
2 x 54W	≤ 1000 (55°)	≤ 19	75	1185 x 204 x 99	501	RT1883/254HFW	1185 x 204 x 99	501	RT1881/254HFW	-

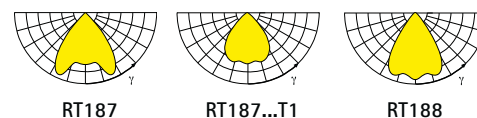
¹ code + X1: luminaire in RAL9003-white with end pieces in RAL7047-grey
/ code + X2: luminaire and end pieces in RAL9006-aluminium white

Options and accessories

semi-transparent colour accent	red
	green
	blue



Save up to 75% on energy
see p 236 up to 261

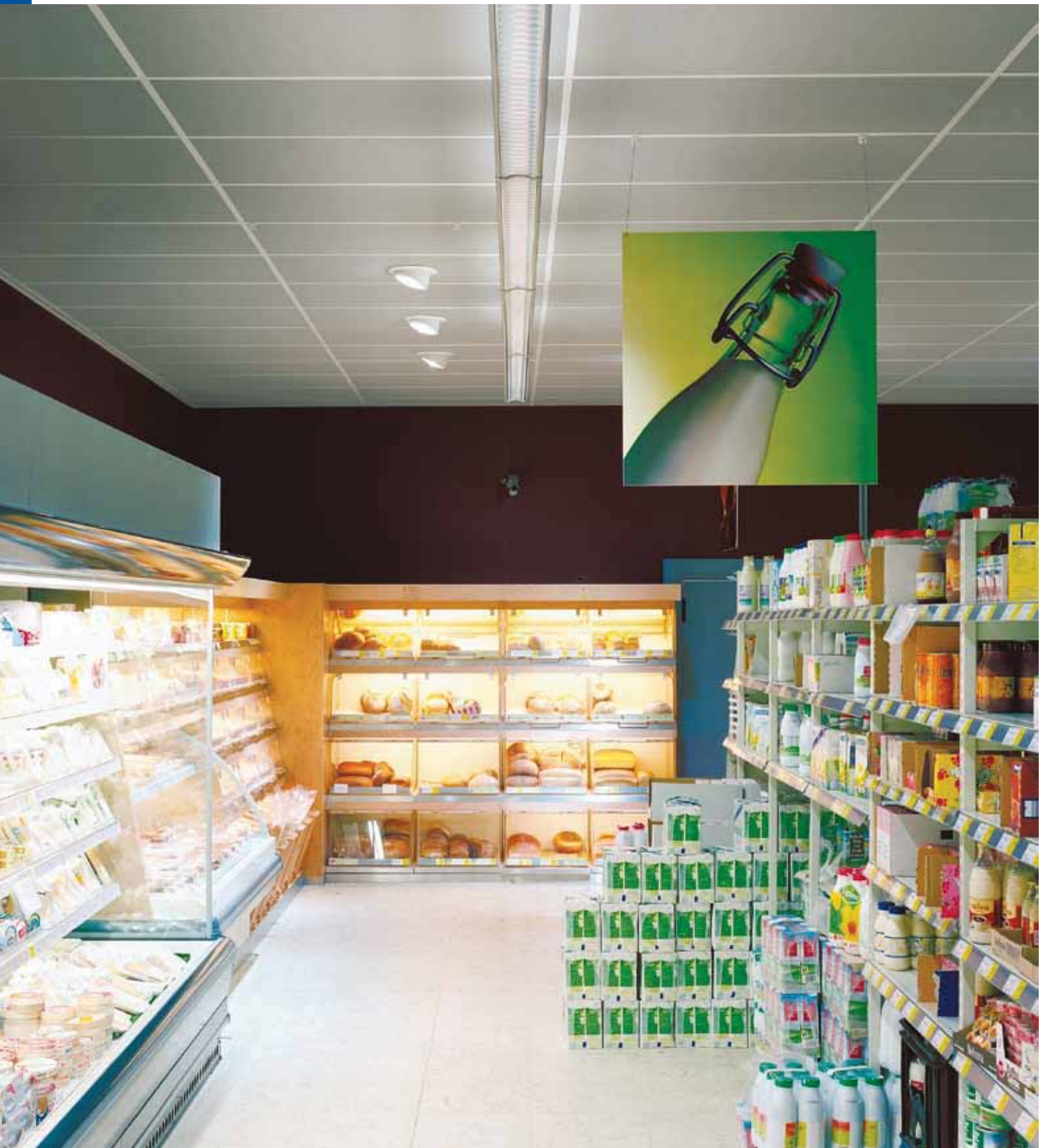


RT187

RT187...T1

RT188

SURFACE MOUNTED
AND SUSPENDED LUMINAIRES





RT2 with colour accent - webref. SRT2012J



RT2, 1 and 2 lamp - webref. SRT2012F

RT2



Housing

Lacquered sheet steel housing with hinged optics
End pieces in aluminium
RAL9003-white housing with RAL7047-grey end pieces or housing and end pieces in RAL9006-white aluminium

Optic

Reflector - high reflection aluminium

Dimensional sketches p 396

suspended luminaire - individual

suspension set: included as standard

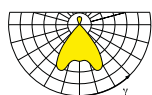
Table explanation p 427

lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	option	
Standard reflector - satin-anodised aluminium - Equilum® baffles								
								
T5 - Ø 16 mm								
65°	1 x 28W	≤ 1000 (65°)	≤ 19	80	1185 x 120 x 98	600	RT2860/128HFW	-
	1 x 35W	≤ 1000 (65°)	≤ 19	84	1485 x 120 x 98	600	RT2860/135HFW	-
	1 x 49W	≤ 1000 (65°)	≤ 19	84	1485 x 120 x 98	600	RT2860/149HFW	-
	1 x 54W	≤ 1000 (65°)	≤ 19	80	1185 x 120 x 98	600	RT2860/154HFW	-
	2 x 28W	≤ 1000 (65°)	≤ 19	73	1185 x 120 x 98	600	RT2860/228HFWT1	-
	2 x 35W	≤ 1000 (65°)	≤ 19	78	1485 x 120 x 98	600	RT2860/235HFWT1	-
	2 x 49W	-	≤ 22	78	1485 x 120 x 98	600	RT2860/249HFWT1	-
	2 x 54W	-	≤ 22	73	1185 x 120 x 98	600	RT2860/254HFWT1	-
Standard reflector - satin-anodised aluminium - Equilum® baffles								
								
T5 - Ø 16 mm								
65°	2 x 28W	≤ 1000 (65°)	≤ 16	87	1185 x 204 x 77	601	RT2860/228HFW	-
	2 x 35W	≤ 1000 (65°)	≤ 16	87	1485 x 204 x 77	601	RT2860/235HFW	-
	2 x 49W	≤ 1000 (65°)	≤ 16	87	1485 x 204 x 77	601	RT2860/249HFW	-
	2 x 54W	≤ 1000 (65°)	≤ 19	87	1185 x 204 x 77	601	RT2860/254HFW	-
Comfort reflector - satin-anodised aluminium - Equilum® baffles								
								
T5 - Ø 16 mm								
65°	1 x 28W	≤ 200 (65°)	≤ 16	79	1185 x 120 x 98	600	RT2870/128HFW	-
	1 x 35W	≤ 200 (65°)	≤ 16	80	1485 x 120 x 98	600	RT2870/135HFW	-
	1 x 49W	≤ 200 (65°)	≤ 16	80	1485 x 120 x 98	600	RT2870/149HFW	-
	1 x 54W	≤ 200 (65°)	≤ 19	79	1185 x 120 x 98	600	RT2870/154HFW	-
	2 x 28W	≤ 1000 (65°)	≤ 19	71	1185 x 204 x 98	600	RT2870/228HFWT1	-
	2 x 35W	≤ 1000 (65°)	≤ 19	76	1485 x 204 x 98	600	RT2870/235HFWT1	-
	2 x 49W	≤ 1000 (65°)	≤ 19	76	1485 x 204 x 98	600	RT2870/249HFWT1	-
	2 x 54W	≤ 1000 (65°)	≤ 19	71	1185 x 204 x 98	600	RT2870/254HFWT1	-
Comfort reflector - satin-anodised aluminium - Equilum® baffles								
								
T5 - Ø 16 mm								
65°	2 x 28W	≤ 200 (65°)	≤ 16	87	1185 x 204 x 77	601	RT2870/228HFW	-
	2 x 35W	≤ 200 (65°)	≤ 16	87	1485 x 204 x 77	601	RT2870/235HFW	-
	2 x 49W	≤ 200 (65°)	≤ 16	87	1485 x 204 x 77	601	RT2870/249HFW	-
	2 x 54W	≤ 1000 (65°)	≤ 16	87	1185 x 204 x 77	601	RT2870/254HFW	-

¹ code + X1: luminaire in RAL9003-white with end pieces in RAL7047-grey /
code + X2: luminaire and end pieces in RAL9006-aluminium white



Save up to 75% on energy
see p 236 up to 261



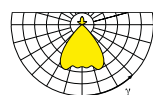
RT286
1-lamp



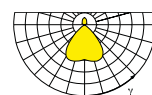
RT286...T1



RT286
2-lamp



RT287
1-lamp



RT287...T1



RT287
2-lamp

SURFACE MOUNTED AND SUSPENDED LUMINAIRES

RT2, 1 and 2 lamp – webref. SRT2017E

RT2

suspended luminaire - individual suspension set: included as standard

Table explanation p 427

lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	 option	
CAD reflector - satin-anodised aluminium - Equilum® baffles								
 T5 - Ø 16 mm								
55°	1 x 28W	≤ 1000 (55°)	≤ 16	74	1185 x 120 x 98	600	RT2880/128HFW	-
	1 x 35W	≤ 1000 (55°)	≤ 16	78	1485 x 120 x 98	600	RT2880/135HFW	-
	1 x 49W	≤ 1000 (55°)	≤ 16	78	1485 x 120 x 98	600	RT2880/149HFW	-
	1 x 54W	≤ 1000 (55°)	≤ 16	74	1185 x 120 x 98	600	RT2880/154HFW	-
CAD reflector - satin-anodised aluminium - Equilum® baffles								
 T5 - Ø 16 mm								
55°	2 x 28W	≤ 1000 (55°)	≤ 16	82	1185 x 204 x 77	601	RT2880/228HFW	-
	2 x 35W	≤ 1000 (55°)	≤ 16	82	1485 x 204 x 77	601	RT2880/235HFW	-
	2 x 49W	≤ 200 (65°)	≤ 16	82	1485 x 204 x 77	601	RT2880/249HFW	-
	2 x 54W	≤ 1000 (65°)	≤ 16	82	1185 x 204 x 77	601	RT2880/254HFW	-

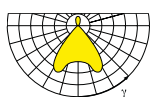
¹ code + X1: luminaire in RAL9003-white with end pieces in RAL7047-grey /
code + X2: luminaire and end pieces in RAL9006-aluminium white

suspended luminaire - straight line mounting through wiring (3 x 1,5 mm²) / suspension set: included as standard

Table explanation p 427

lamp type	L_{av} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹					 option
Standard reflector - satin-anodised aluminium - Equilum® baffles											
 T5 - Ø 16 mm											
65°	1 x 28W	≤ 1000 (65°)	≤ 19	80	1185 x 120 x 98	600	RT2861/128HFW	RT2863/128HFW	RT2864/128HFW	RT2865/128HFD	-
	1 x 35W	≤ 1000 (65°)	≤ 19	84	1485 x 120 x 98	600	RT2861/135HFW	RT2863/135HFW	RT2864/135HFW	RT2865/135HFD	-
	1 x 49W	≤ 1000 (65°)	≤ 19	84	1485 x 120 x 98	600	RT2861/149HFW	RT2863/149HFW	RT2864/149HFW	RT2865/149HFD	-
	1 x 54W	≤ 1000 (65°)	≤ 19	80	1185 x 120 x 98	600	RT2861/154HFW	RT2863/154HFW	RT2864/154HFW	RT2865/154HFD	-
	2 x 28W	≤ 1000 (65°)	≤ 19	73	1185 x 120 x 98	600	RT2861/228HFWT1	RT2863/228HFWT1	RT2864/228HFWT1	RT2865/228HFDT1	-
	2 x 35W	≤ 1000 (65°)	≤ 19	78	1485 x 120 x 98	600	RT2861/235HFWT1	RT2863/235HFWT1	RT2864/235HFWT1	RT2865/235HFDT1	-
	2 x 49W	-	≤ 22	78	1485 x 120 x 98	600	RT2861/249HFWT1	RT2863/249HFWT1	RT2864/249HFWT1	RT2865/249HFDT1	-
	2 x 54W	-	≤ 22	73	1185 x 120 x 98	600	RT2861/254HFWT1	RT2863/254HFWT1	RT2864/254HFWT1	RT2865/254HFDT1	-
Standard reflector - satin-anodised aluminium - Equilum® baffles											
 T5 - Ø 16 mm											
65°	2 x 28W	≤ 1000 (65°)	≤ 16	87	1185 x 204 x 77	601	RT2861/228HFW	RT2863/228HFW	RT2864/228HFW	RT2865/228HFD	-
	2 x 35W	≤ 1000 (65°)	≤ 16	87	1485 x 204 x 77	601	RT2861/235HFW	RT2863/235HFW	RT2864/235HFW	RT2865/235HFD	-
	2 x 49W	≤ 1000 (65°)	≤ 16	87	1485 x 204 x 77	601	RT2861/249HFW	RT2863/249HFW	RT2864/249HFW	RT2865/249HFD	-
	2 x 54W	≤ 1000 (65°)	≤ 19	87	1185 x 204 x 77	601	RT2861/254HFW	RT2863/254HFW	RT2864/254HFW	RT2865/254HFD	-

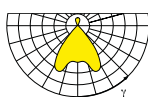
¹ code + X1: luminaire in RAL9003-white with end pieces in RAL7047-grey /
code + X2: luminaire and end pieces in RAL9006-aluminium white



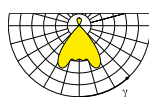
RT288
1 lamp



RT288
2 lamp



RT286
1 lamp



RT286...T1



RT286
2 lamp



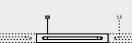
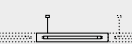
RT2 straight line mounting - webref. SRT2017D

RT2

suspended luminaire - straight line mounting

through wiring (3 x 1,5 mm²) / suspension set: included as standard

Table explanation p 427

lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹				 option
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
65° 1 x 28W	≤ 200 (65°)	≤ 16	79	1185 x 120 x 98	600	RT2871/128HFW	RT2873/128HFW	RT2874/128HFW	RT2875/128HFD	-
1 x 35W	≤ 200 (65°)	≤ 16	80	1485 x 120 x 98	600	RT2871/135HFW	RT2873/135HFW	RT2874/135HFW	RT2875/135HFD	-
1 x 49W	≤ 200 (65°)	≤ 16	80	1485 x 120 x 98	600	RT2871/149HFW	RT2873/149HFW	RT2874/149HFW	RT2875/149HFD	-
1 x 54W	≤ 200 (65°)	≤ 19	79	1185 x 120 x 98	600	RT2871/154HFW	RT2873/154HFW	RT2874/154HFW	RT2875/154HFD	-
2 x 28W	≤ 1000 (65°)	≤ 19	71	1185 x 204 x 98	600	RT2871/228HFWT1	RT2873/228HFWT1	RT2874/228HFWT1	RT2875/228HFDT1	-
2 x 35W	≤ 1000 (65°)	≤ 19	76	1485 x 204 x 98	600	RT2871/235HFWT1	RT2873/235HFWT1	RT2874/235HFWT1	RT2875/235HFDT1	-
2 x 49W	≤ 1000 (65°)	≤ 19	76	1485 x 204 x 98	600	RT2871/249HFWT1	RT2873/249HFWT1	RT2874/249HFWT1	RT2875/249HFDT1	-
2 x 54W	≤ 1000 (65°)	≤ 19	71	1185 x 204 x 98	600	RT2871/254HFWT1	RT2873/254HFWT1	RT2874/254HFWT1	RT2875/254HFDT1	-
Comfort reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
65° 2 x 28W	≤ 200 (65°)	≤ 16	87	1185 x 204 x 77	601	RT2871/228HFW	RT2873/228HFW	RT2874/228HFW	RT2875/228HFD	-
2 x 35W	≤ 200 (65°)	≤ 16	87	1485 x 204 x 77	601	RT2871/235HFW	RT2873/235HFW	RT2874/235HFW	RT2875/235HFD	-
2 x 49W	≤ 200 (65°)	≤ 16	87	1485 x 204 x 77	601	RT2871/249HFW	RT2873/249HFW	RT2874/249HFW	RT2875/249HFD	-
2 x 54W	≤ 1000 (65°)	≤ 16	87	1185 x 204 x 77	601	RT2871/254HFW	RT2873/254HFW	RT2874/254HFW	RT2875/254HFD	-
CAD reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
55° 1 x 28W	≤ 1000 (55°)	≤ 16	74	1185 x 120 x 98	600	RT2881/128HFW	RT2883/128HFW	RT2884/128HFW	RT2885/128HFD	-
1 x 35W	≤ 1000 (55°)	≤ 16	78	1485 x 120 x 98	600	RT2881/135HFW	RT2883/135HFW	RT2884/135HFW	RT2885/135HFD	-
1 x 49W	≤ 1000 (55°)	≤ 16	78	1485 x 120 x 98	600	RT2881/149HFW	RT2883/149HFW	RT2884/149HFW	RT2885/149HFD	-
1 x 54W	≤ 1000 (55°)	≤ 16	74	1185 x 120 x 98	600	RT2881/154HFW	RT2883/154HFW	RT2884/154HFW	RT2885/154HFD	-
CAD reflector - satin-anodised aluminium - Equilum® baffles										
 T5 - Ø 16 mm										
55° 2 x 28W	≤ 1000 (55°)	≤ 16	82	1185 x 204 x 77	601	RT2881/228HFW	RT2883/228HFW	RT2884/228HFW	RT2885/228HFD	-
2 x 35W	≤ 1000 (55°)	≤ 16	82	1485 x 204 x 77	601	RT2881/235HFW	RT2883/235HFW	RT2884/235HFW	RT2885/235HFD	-
2 x 49W	≤ 200 (65°)	≤ 16	82	1485 x 204 x 77	601	RT2881/249HFW	RT2883/249HFW	RT2884/249HFW	RT2885/249HFD	-
2 x 54W	≤ 1000 (65°)	≤ 16	82	1185 x 204 x 77	601	RT2881/254HFW	RT2883/254HFW	RT2884/254HFW	RT2885/254HFD	-

¹ code + X1: luminaire in RAL9003-white with end pieces in RAL7047-grey /
code + X2: luminaire and end pieces in RAL9006-aluminium white

Options and accessories

semi-transparent colour accent

red

green

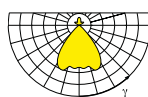
blue

neutral tube

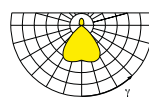
for power or control cable of the suspension set



Save up to 75% on energy
see p 236 up to 261



RT287
1 lamp



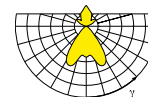
RT287...T1



RT287
2 lamp

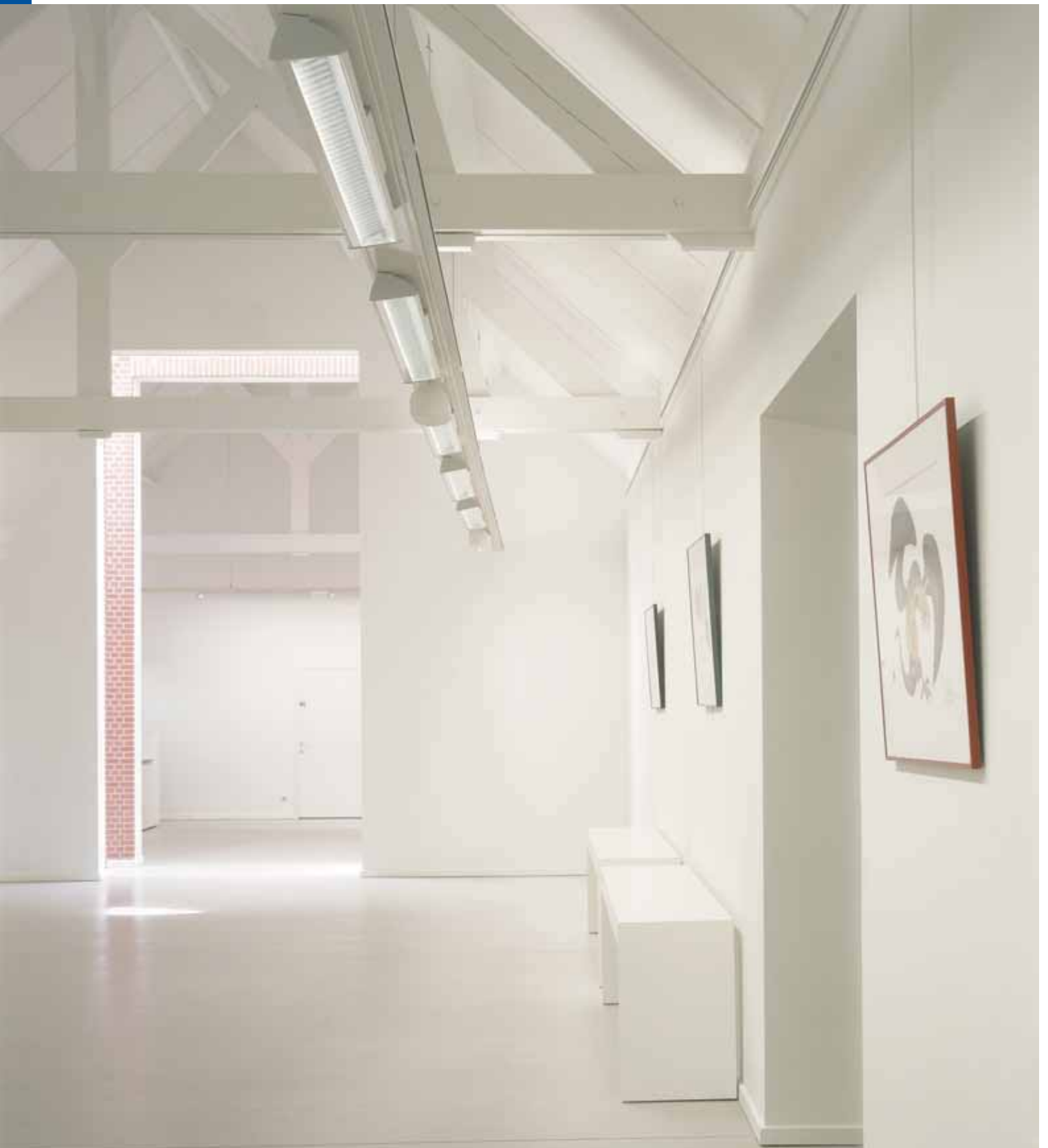


RT288
1 lamp



RT288
2 lamp

SURFACE MOUNTED
AND SUSPENDED LUMINAIRES





RT6 - webref. SRT6012C



RT6

	Housing	Lacquered sheet steel housing with hinged optics Aluminium end pieces White housing RAL9003 with RAL7047-grey end pieces or housing and end pieces in RAL9006-aluminium white
	Optic	Reflector - high reflection aluminium

Dimensional sketches p 396

surface mounted luminaire

Table explanation p 427

table explanation p. 42								
lamp type	L _{av.} - limit cd/m ²	UGR	η %	L x W x H mm	plan N.	order code ¹	 option	
Reflector - satin-anodised aluminium - SLL baffles - asymmetric-beam distribution								
 T5 - Ø 16 mm								
60°	1 x 14W	-	-	85	583 x 158 x 98	700	RT6000/114HFW	-
	1 x 24W	-	-	86	583 x 158 x 98	700	RT6000/124HFW	-
	1 x 35W	-	-	83	1483 x 158 x 98	700	RT6000/135HFW	-
	1 x 49W	-	-	86	1483 x 158 x 98	700	RT6000/149HFW	-

¹ code + X1: luminaire in RAL9003-white with end pieces in RAL7047-grey /
code + X2: luminaire and end pieces in RAL9006-aluminium white

Options and accessories

semi-transparent colour accent

red

green

bleu



Save up to 75% on energy
see p 236 up to 261



with
cross-baffles

SURFACE MOUNTED
AND SUSPENDED LUMINAIRES





EGAL, perforated lamp shielding - webref. SAL41G1A



EGAL square - webref. SAL41C1



EGAL

	Housing	Lacquered sheet steel housing with lamp shielding Ceiling plate of white-lacquered sheet steel (suspended luminaire) Closed lamp shielding: lacquered aluminium Perforated lamp shielding: lacquered sheet steel Titanium grey Wieland connection
	Optic	Softlight - high reflection lacquer

Dimensional sketches p 396

SQUARE surface mounted luminaire

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code titanium grey	option
Softlight - closed lamp shielding						
TC-T 1 x 26/32W	-	18	360 x 360 x 120	710	EGAL360-126/32COBE	-
Softlight - closed lamp shielding						
TC-L 2 x 34/36/40W	≤ 28	34	595 x 595 x 98	711	EGAL600-234/36/40COBE	-
Softlight - perforated lamp shielding						
TC-T 1 x 26/32W		40	360 x 360 x 120	710	EGAL360-126/32PFBE	-
Softlight - perforated lamp shielding						
TC-L 2 x 34/36/40W	-	37	595 x 595 x 98	711	EGAL600-234/36/40PFBE	-



Save up to 75% on energy
see p 236 up to 261

SURFACE MOUNTED AND SUSPENDED LUMINAIRES



EGAL - webref. SAL41A1A

EGAL

LINEAR

surface mounted luminaire

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code titanium grey	 option
Softlight - closed lamp shielding						
  T5 - Ø 16 mm						
2 x 24W	≤ 28	30	750 x 380 x 104	712	EGAL750-224COBE	•
Softlight - perforated lamp shielding						
  T5 - Ø 16 mm						
2 x 24W	≤ 28	37	750 x 380 x 104	712	EGAL750-224PFBE	•
2 x 54W	≤ 28	41	1330 x 380 x 104	712	EGAL1350-254PFBE	•

suspended luminaire

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code titanium grey	 option
Softlight - closed lamp shielding						
  T5 - Ø 16 mm						
4 x 54W	≤ 22	30	1330 x 380 x 104	713	EGAL-S1350-454CODABE	•
Softlight - perforated lamp shielding						
  T5 - Ø 16 mm						
4 x 54W	≤ 22	40	1330 x 380 x 104	713	EGAL-S1350-454PFDABE	•





ELAN – webref. SAL51A1A



ELAN

	Housing	Lacquered sheet steel housing with 2-part lamp shielding which hinges open Perforated lamp shielding: lacquered sheet steel Wieland connection
	Optic	Softlight - high reflection lacquer

Dimensional sketches p 396

LINEAR

surface mounted luminaire

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code titanium grey	 option
Softlight - perforated lamp shielding						
  T8 - Ø 26 mm 2 x 36W	 ≤ 28	54	1250 x 300 x 115	720	ELAN1250-236BE	-



Save up to 75% on energy
see p 236 up to 261

SURFACE MOUNTED AND SUSPENDED LUMINAIRES



FUZO – webref. SAL55A1A

FUZO



	Housing	Luminaire of lacquered extruded aluminium in titanium grey Ceiling plate of lacquered sheet steel Ceiling plate and cable tube in white Wieland connection
	Optic	Uplight

Dimensional sketches p 396

suspended luminaire

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code titanium grey	 option
Uplight						
T5 - Ø 16 mm						
2 x 54W	≤16	59	1250 x 112 x 51	730	FUZO1250-254BE	-
4 x 54W	-	59	2450 x 112 x 51	730	FUZO2500-454BE	-



SEXTRA

webref. SAL63B1A



OELITE

webref. SAL40A3A



OELITE

	Housing	Lacquered sheet steel housing with 2-part lamp shielding which hinges open Wieland connection
	Optic	Softlight - high reflection lacquer Diffuser - HaloOptics® for high efficiency

Dimensional sketches p 396

surface mounted luminaire

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code RAL9210	 option
Diffuser - polycarbonate / HaloOptics®						
  T5 - Ø 16 mm 2 x 24W	≤28	76	700 x 700 x 40	740	OELITE700-224HRBE	•
Softlight - perforated lamp shielding						
  TC-L 2 x 34/36/40W	≤ 28	63	700 x 700 x 40	740	OELITE700-234/36/40BE	•
2 x 55W	≤ 28	63	700 x 700 x 40	740	OELITE700-255BG	•



SEXTRA

	Housing	Lacquered sheet steel housing, optics mounted by screws or click system Ceiling plate of white-lacquered sheet steel Wieland connection
	Optic	Softlight - high reflection lacquer Diffuser - HaloOptics® for high efficiency

Dimensional sketches p 396

suspended luminaire

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code white	 option
Diffuser - polycarbonate / HaloOptics®						
  T5 - Ø 16 mm 2 x 28/54W	-	77	1230 x 260 x 104	751	SEXTRA1200-228/54HRBE	-
Softlight - perforated lamp shielding						
  T5 - Ø 16 mm 2 x 28/54W	≤25	75	1230 x 260 x 104	750	SEXTRA1200-228/54BE	-



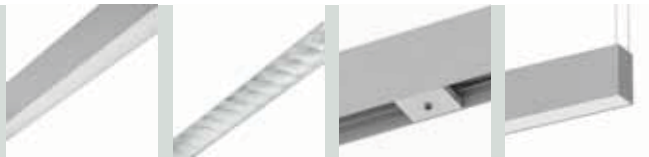
Save up to 75% on energy
see p 236 up to 261

MODULAR SYSTEMS



KARDÓ 60

p 127



KARDÓ 90

p 131



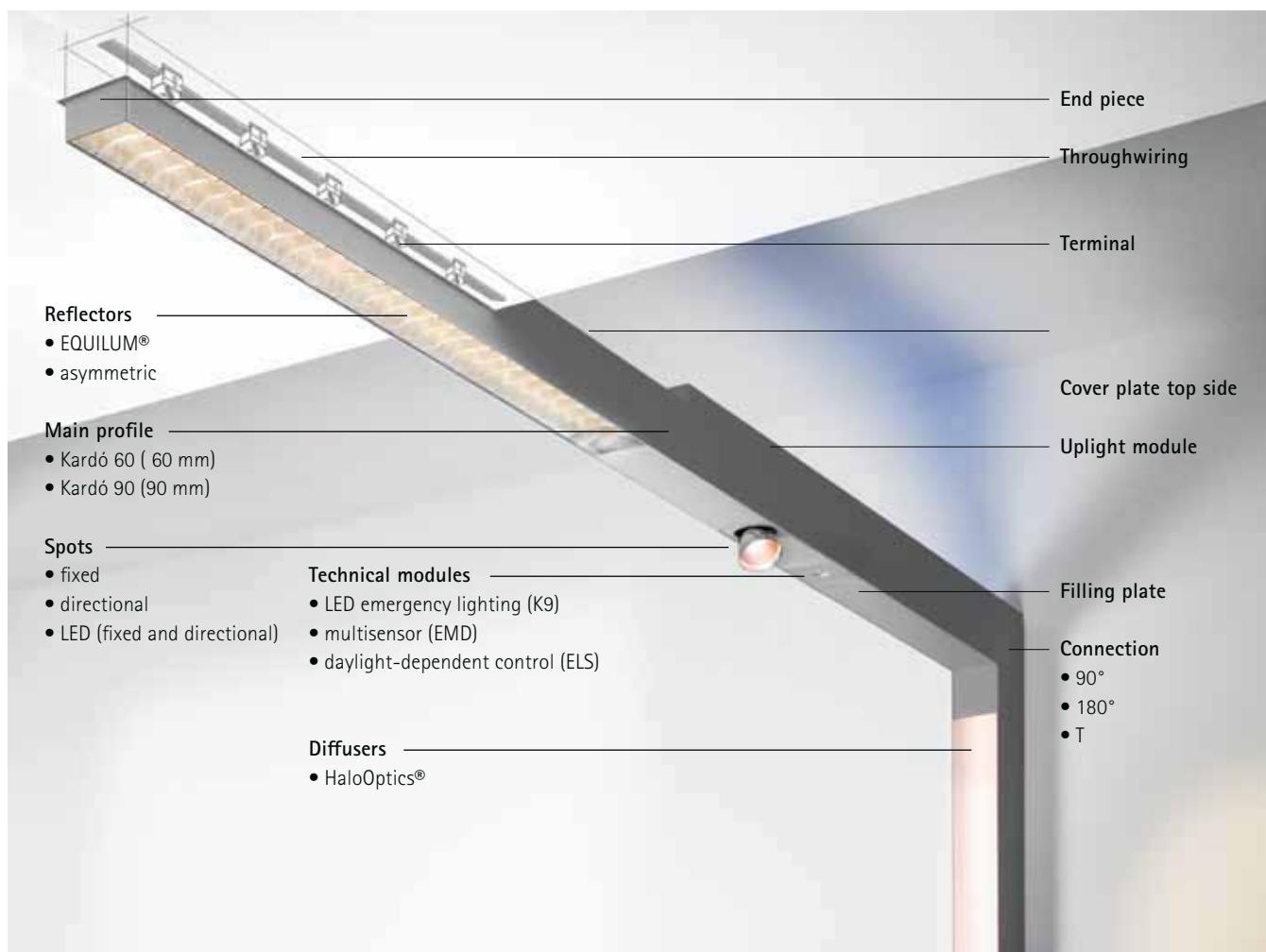
KARDÓ: ENDLESS LIGHT COMBINATIONS

Design: EER Architectural design, Belgium

The Kardó modular light system allows you to use one and the same profile for your lighting throughout the entire building: suspended or built in, wall or ceiling mounting, individual, in line or an angle. And like always, ETAP also has a wide range of high-quality light modules for the Kardó system. Kardó is available in two versions: a 90 mm version (Kardó 90) and a 60 mm version (Kardó 60).

ONE PROFILE FOR EVERYTHING

Kardó's heart is an anodised aluminium profile, which gives Kardó its nice modern shape. The profile's flexibility is unique. It is always bespoke, the through wiring can contain up to 14 cores (7 cores for Kardó 60) and the light modules can be mounted anywhere in the profile. The range of low-energy light modules that can be mounted in the profile is huge: both reflectors, diffusers and spots can be used, with LEDs, fluorescent or HIT lamps. All kinds of technical modules can be added to your system, such as lighting control systems, emergency lighting or bespoke modules.





Simple instructions make installation easier – webref. SA045A1



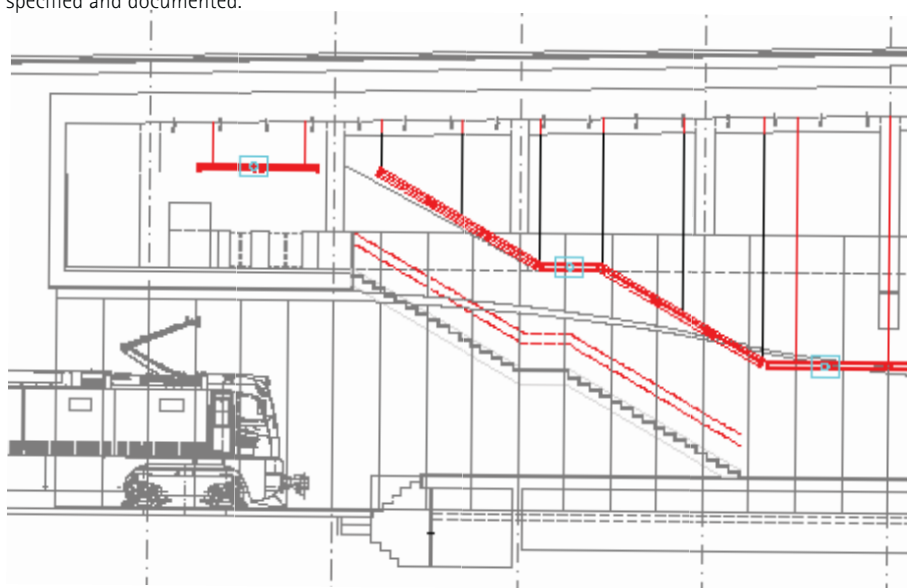
Your ETAP-adviser designs together with you – webref. SA024H1

KARDÓ PROJECTS: AN INTERACTION BETWEEN YOURSELF AND ETAP

DESIGN

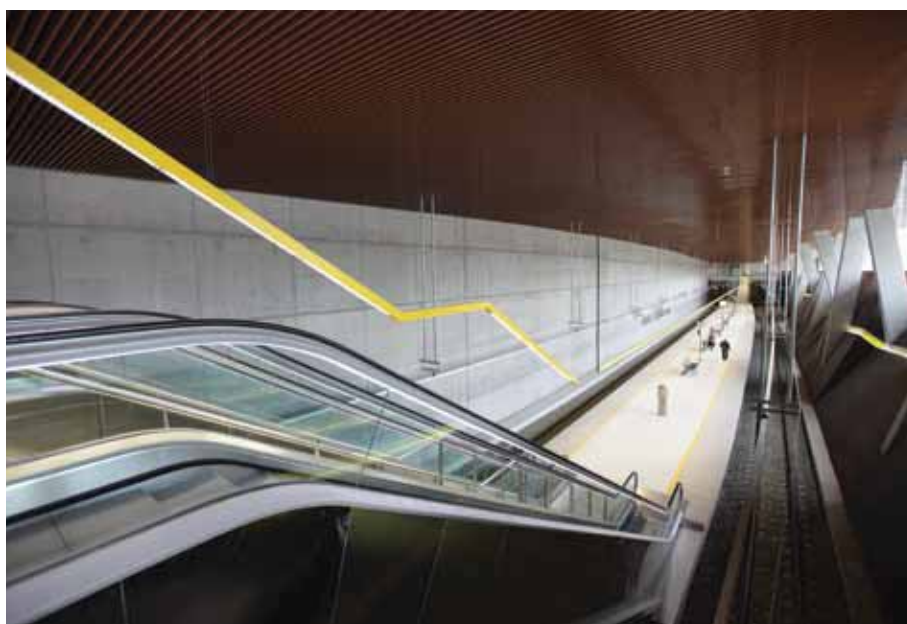
Kardó light lines are always bespoke. You design the line with our consultants.

ETAP makes the illumination study and prepares everything: every detail of the Kardó lines is clearly specified and documented.



DELIVERY AND INSTALLATION

When all the details have been agreed, we start production. We provide clear overviews per line to ensure a smooth installation. To save time finding the right part during installation, there will be extra large labels on the packaging, with clear referral to the installation diagram.





webref. SV41001E1

webref. SV21003A1

webref. SV21001A



KARDÓ 60



Housing

Extruded aluminium support with cord and phase selector switch for flexible and easy installation

Optic

Reflector - high reflection aluminium
Diffuser - HaloOptics® for high efficiency

Dimensional sketches see p 405

Lighting module - individual

Table explanation p 427

	lamp type	UGR	η %	L x W mm	order code	option
Uplight (cover plate in clear polycarbonate) 	 T5 -Ø16mm					
	1 x 14W		84	1000 x 50	V2M1400/114HFW	-
	1 x 21W		88	1300 x 50	V2M1400/121HFW	-
	1 x 24W		80	1000 x 50	V2M1400/124HFW	-
	1 x 28W		88	1600 x 50	V2M1400/128HFW	-
	1 x 35W		90	1900 x 50	V2M1400/135HFW	-
	1 x 39W		83	1300 x 50	V2M1400/139HFW	-
	1 x 49W		83	1900 x 50	V2M1400/149HFW	-
	1 x 54W		80	1600 x 50	V2M1400/154HFW	-
Diffuser - acrylic / HaloOptics® 	 T5 -Ø16mm 					
	1 x 28W	≤ 25	56	1180 x 50	V2M1F00/128HFW	-
	1 x 35W	≤ 25	58	1480 x 50	V2M1F00/135HFW	-
Diffuser - polycarbonate / HaloOptics® 	 T5 -Ø16mm 					
	1 x 28W	≤ 22	45	1180 x 50	V2M1J00/128HFW	-
	1 x 35W	≤ 25	47	1480 x 50	V2M1J00/135HFW	-
Reflector - Equilum® baffles	 T5 -Ø16mm 					
	1 x 28W	≤ 19	88	1180 x 50	V2M1860/128HFW	-
	1 x 35W	≤ 19	88	1480 x 50	V2M1860/135HFW	-
	1 x 49W	≤ 22	79	1480 x 50	V2M1860/149HFW	-
	1 x 54W	≤ 22	79	1180 x 50	V2M1860/154HFW	-



Save up to 75% on energy
see p 236 up to 261

webref. SV41002C1

KARDÓ 60

Lighting module - in-line - reflector

Table explanation p 427

lamp type	L x W mm	order code	 option	L x W mm	order code	 option
Base for reflector						
T5 						
1 x 28W	1180 x 50	V2M1861/128HFW	-	1180 x 50	V2M1862/128HFW	-
1 x 35W	1480 x 50	V2M1861/135HFW	-	1480 x 50	V2M1862/135HFW	-
1 x 49W	1480 x 50	V2M1681/149HFW	-	1480 x 50	V2M1862/149HFW	-
1 x 54W	1180 x 50	V2M1681/154HFW	-	1180 x 50	V2M1862/154HFW	-

Lighting module - in-line - diffuser

Table explanation p 427

lamp type	L x W mm	order code	 option	L x W mm	order code	 option
Base for diffuser (excluding diffuser)						
T5 						
1 x 28W	1180 x 50	V2M1B01/128HFW	-	1180 x 50	V2M1B02/128HFW	-
1 x 35W	1480 x 50	V2M1B01/135HFW	-	1480 x 50	V2M1B02/135HFW	-
Diffuser - acrylic / HaloOptics®						
	3000 x 55	V2MF0/3000				
Diffuser - polycarbonate / HaloOptics®						
	3000 x 55	V2MJ0/3000				





LED emergency lighting – webref. SV51005A



Multisensor – webref. SV51005B



ELS – webref. SV51005C

KARDÓ 60

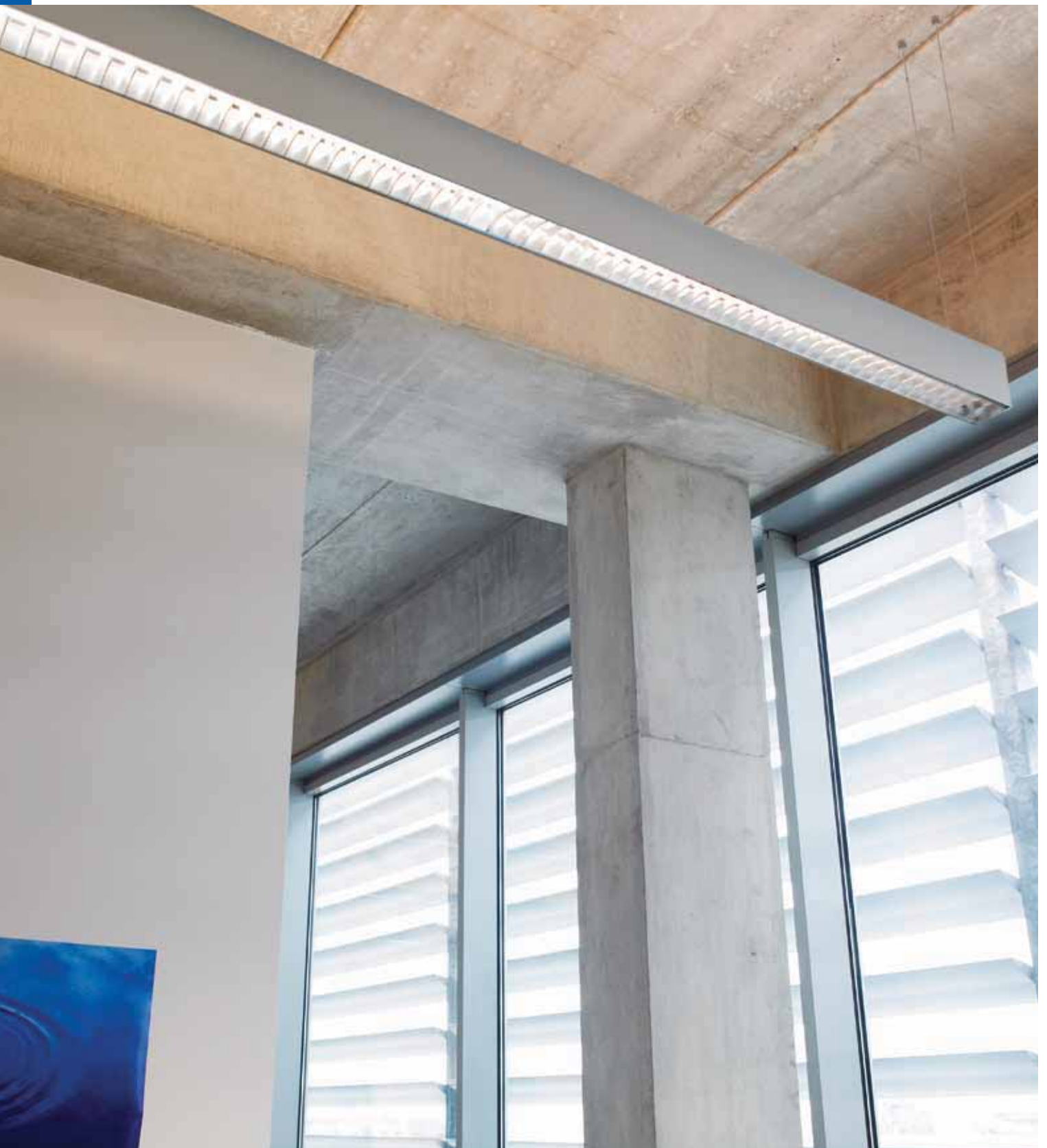
Technical modules

Table explanation p 427

	L x W mm		order code ¹	order code ¹
LED emergency lighting (K9)	300 x 55		1h	3h
		self-contained – EST+ – escape route lighting	V2MK9066/3N	V2MK9066/3NS2
		self-contained – EST+ – anti-panic lighting	V2MK9067/3N	V2MK9067/3NS2
		self-contained – ESM – escape route lighting	V2MK9096/3N	V2MK9096/3NS2
		self-contained – ESM – anti-panic lighting	V2MK9097/3N	V2MK9097/3NS2
				110-230V
		central – escape route lighting		V2MK906/3-ADH
		central – anti-panic lighting		V2MK907/3-ADH
multisensor	80 x 55	MDS movement dependent sensor		V2MC21
		EMD daylight dependent sensor/movement dependent sensor (DALI) +IR remote control		V2MC41
daylight-dependent control (ELS)	80 x 55	1-10V		V2MC10
		DALI		V2MC11

¹ order code + X1: luminaire in RAL9003-white / order code + X2: luminaire in anodised aluminium

Save up to 75% on energy
see p 236 up to 261





webref. SV2002A



webref. SV2002B



KARDÓ 90



Housing

Extruded aluminium support with cord and phase selector switch for flexible and easy installation

Optic

Reflector - high reflection aluminium
Diffuser - HaloOptics®

Dimensional sketches see p 405

Lighting module - individual

Table explanation p 427

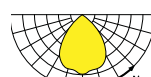
	lamp type	L _{av} - limit cd/m ²	UGR	η %	L x W mm	order code	Option
Comfort reflector - satin-anodised aluminium - EQUILUM® baffles	T5 - Ø16mm						
	1 x 28W	≤ 200(65°)	≤ 19	82	1180 x 85	V1M1870/128HFW	•
	1 x 35W	≤ 200(65°)	≤ 19	82	1480 x 85	V1M1870/135HFW	•
	1 x 49W	≤ 200(65°)	≤ 19	82	1480 x 85	V1M1870/149HFW	•
	1 x 54W	≤ 200(65°)	≤ 19	82	1180 x 85	V1M1870/154HFW	•
	2 x 28W	≤ 200(65°)	≤ 19	72	1180 x 85	V1M1870/228HFW	•
	2 x 35W	≤ 200(65°)	≤ 19	72	1480 x 85	V1M1870/235HFW	•
	2 x 49W	≤ 200(65°)	≤ 22	72	1480 x 85	V1M1870/249HFW	•
	2 x 54 W	≤ 200(65°)	≤ 22	72	1180 x 85	V1M1870/254HFW	•
Asymmetrical reflector - satin-anodised aluminium	T5 - Ø16mm						
	1 x 28W			86	1180 x 85	V1M1300/128HFW	•
	1 x 35W			86	1480 x 85	V1M1300/135HFW	•
	1 x 49W			86	1480 x 85	V1M1300/149HFW	•
	1 x 54W			86	1180 x 85	V1M1300/154HFW	•
Uplight (cover plate in clear polycarbonate)	T5 - Ø16mm						
	1 x 28W			92	1180 x 85	V1M1400/128HFW	-
	1 x 35W			92	1480 x 85	V1M1400/135HFW	-
	1 x 49W			92	1480 x 85	V1M1400/149HFW	-
	1 x 54W			92	1180 x 85	V1M1400/154HFW	-
Diffuser - acrylic / HaloOptics®	T5 - Ø16mm						
	1 x 28W		≤ 22	84	1180 x 85	V1M1F00/128HFW	-
	1 x 35W		≤ 22	82	1480 x 85	V1M1F00/135HFW	-
	2 x 28W		≤ 25	74	1180 x 85	V1M1F00/228HFW	-
	2 x 35W		≤ 25	67	1480 x 85	V1M1F00/235HFW	-
Diffuser - polycarbonate / HaloOptics®	T5 - Ø16mm						
	1 x 28W		≤ 22	76	1180 x 85	V1M1J00/128HFW	•
	1 x 35W		≤ 22	74	1480 x 85	V1M1J00/135HFW	•
	2 x 28W		≤ 25	68	1180 x 85	V1M1J00/228HFW	•
	2 x 35W		≤ 25	60	1480 x 85	V1M1J00/235HFW	•



Save up to 75% on energy
see p 236 up to 261



V1M1870



V1M1870



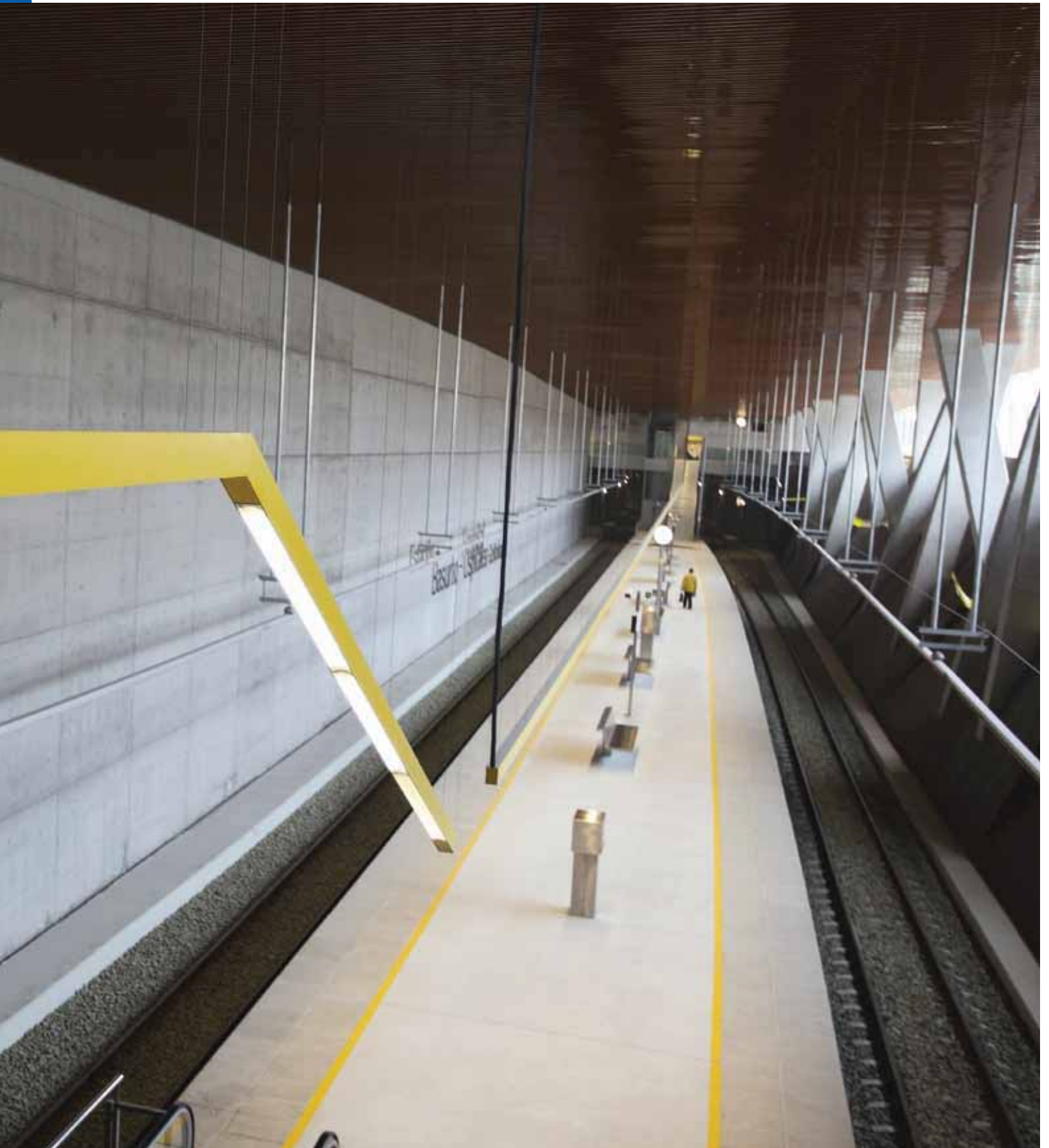
V1M1300



V1M1400



V1M1F / V1M1J



TRAIN STATION, BILBAO - SPAIN

webref. SV3007H1



webref. SV2002A

KARDÓ 90

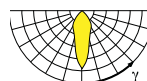
Lighting module - individual

Table explanation p 427

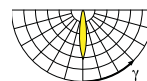
	lamp type		η %	L x W mm	order code ¹	Option
Spot - fixed incl. electronic ballast	CDM-TC					
	1 x 35W		72	300 x 85	V1M202/C135HF	-
	1 x 70W		72	300 x 85	V1M202/C170HF	-
Spot - fixed incl. electronic ballast	LED					
	9 x 1,2W (warm white)			300 x 85	V1M200/SMW11S ¹	-
	9 x 1,2W (cold white)			300 x 85	V1M200/SMC11S ¹	-
Spot - directional incl. electronic ballast	CDM-TC					
	1 x 35W 15°		68	300 x 85	V1M210/C135HF ¹	-
	1 x 35W 30°		67	300 x 85	V1M211/C135HF ¹	-
	1 x 70W 15°		68	300 x 85	V1M210/C170HF ¹	-
	1 x 70W 30°		67	300 x 85	V1M211/C170HF ¹	-
Spot - directional incl. electronic ballast	LED					
	6 x 1,2W (warm white)			300 x 85	V1M210/SMW7S ¹	-
	6 x 1,2W (cold white)			300 x 85	V1M210/SMC7S ¹	-

¹ order code + X1: luminaire in RAL9003-white / order code + X2: luminaire in anodised aluminium

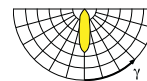
Save up to 75% on energy
see p 236 up to 261



V1M202



V1M210



V1M211

webref. SV1003A

webref. SV4001E

KARDÓ 90

Lighting module – in-line – reflector

Table explanation p 427

lamp type	L x W mm	order code	 option	L x W mm	order code	 option
Base with Comfort reflector – satin-anodised aluminium – EQUILUM® baffles						
T5 						
1 x 28W	1180 x 85	V1M1871/128HFW	•	1180 x 85	V1M1872/128HFW	•
1 x 35W	1480 x 85	V1M1871/135HFW	•	1480 x 85	V1M1872/135HFW	•
1 x 49W	1480 x 85	V1M1871/149HFW	•	1480 x 85	V1M1872/149HFW	•
1 x 54W	1180 x 85	V1M1871/154HFW	•	1180 x 85	V1M1872/154HFW	•
2 x 28W	1310 x 85	V1M1871/228HFW	•	1310 x 85	V1M1872/228HFW	•
2 x 35W	1610 x 85	V1M1871/235HFW	•	1610 x 85	V1M1872/235HFW	•
2 x 49W	1610 x 85	V1M1871/249HFW	•	1610 x 85	V1M1872/249HFW	•
2 x 54W	1310 x 85	V1M1871/254HFW	•	1310 x 85	V1M1872/254HFW	•

Lighting module – in-line – diffuser

Table explanation p 427

lamp type	L x W mm	order code	 option	L x W mm	order code	 option	order code	 option
Base for diffuser (excluding diffuser)								
T5 								
1 x 21W							V1M1B03/121HFW ¹	-
1 x 28W	1180 x 85	V1M1B01/128HFW	•	1180 x 85	V1M1B02/128HFW	•	V1M1B03/128HFW ¹	-
1 x 35W	1480 x 85	V1M1B01/135HFW	•	1480 x 85	V1M1B02/135HFW	•	V1M1B03/135HFW ¹	-
2 x 28W	1310 x 85	V1M1B01/228HFW	•	1310 x 85	V1M1B02/228HFW	•	¹	
2 x 35W	1610 x 85	V1M1B01/235HFW	•	1610 x 85	V1M1B02/235HFW	•	¹	
Diffuser – acrylic / HaloOptics®								
	3000 x 85	V1MF0/3000						
Diffuser – polycarbonate / HaloOptics®								
	3000 x 85	V1MJ0/3000						

1 variable end module



webref. SV2005B1



webref. SV1005A

KARDÓ 90

Technical modules

			Table explanation p 427	
	L x W mm		order code ¹	order code ¹
LED emergency lighting (K9)	300 x 85		1h	3h
		self-contained – EST+ – escape route lighting	V1MK9066/3N	V1MK9066/3NS2
		self-contained – EST+ – anti-panic lighting	V1MK9067/3N	V1MK9067/3NS2
		self-contained – ESM – escape route lighting	V1MK9096/3N	V1MK9096/3NS2
		self-contained – ESM – anti-panic lighting	V1MK9097/3N	V1MK9097/3NS2
			24-48V	110-230V
multisensor	85 x 85	central – escape route lighting	V1MK906/3-ADL	V1MK906/3-ADH
		central – anti-panic lighting	V1MK907/3-ADL	V1MK907/3-ADH
		MDS movement dependent sensor		V1MC21
		EMD daylight dependent sensor/movement dependent sensor DALI + IR remote control		V1MC41
daylight-dependent control (ELS)	85 x 85	1-10V		V1MC10
		DALI		V1MC11

¹ order code + X1: luminaire in RAL9003-white / order code + X2: luminaire in anodised aluminium



Save up to 75% on energy
see p 236 up to 261

DOWNLIGHTS



round

square

recessed – fixed



D1

p 139



D1

p 140



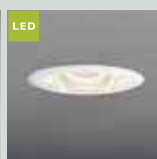
D1

p 141



D4

p 147



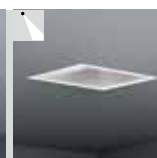
D9

p 151



D3

p 145



D3

p 146



D3

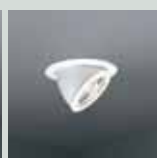
p 146

recessed –
directional



D5

p 149



D5

p 149

surface mounted –
fixed



D2

p 143





D1 - webref. SDL011A1



D1 with air extraction - webref. SDL011A8



D1 - webref. SDL011A0



D1

	Housing	Housing of polycarbonate and galvanised sheet steel, trim of lacquered sheet steel Wieland connection (not for D14) White or white aluminium RAL9006 trim
	Optic	Reflector with diamond - wide-angle
	Air extraction	Possible through option T9 for wafer trim versions (not for D14)

Dimensional sketches p 410

Mounting bracket 1 - 35 mm is included as standard

Table explanation p 427

material	optics	lamp type	UGR	η %	$\emptyset \times H$ mm	plan N.	white	order code RAL9006-aluminium white	option
Luxial® wafer trim - reflector - involute - gear housing is detachable  									
65°	sat ¹	cutout	TC-T						
		$\emptyset$ 180	1 x 13W	≤ 19	64	195 x 151	1000	D10/T113HFWX1	D10/T113HFWX2 -
			1 x 18W	≤ 22	72	195 x 151	1000	D10/T118HFWX1	D10/T118HFWX2 •
		$\emptyset$ 205	1 x 26W	≤ 22	72	220 x 160	1000	D10/T126HFWX1	D10/T126HFWX2 •
			1 x 32W	≤ 25	76	220 x 160	1000	D10/T132HFWX1	D10/T132HFWX2 •
		$\emptyset$ 230	1 x 42W	≤ 25	70	245 x 171	1000	D10/T142HFWX1	D10/T142HFWX2 -
	spec ²		2 x 26W	≤ 25	66	245 x 171	1000	D10/T226HFWX1	D10/T226HFWX2 •
			2 x 32W	≤ 25	67	245 x 171	1000	D10/T232HFWX1	D10/T232HFWX2 •
		$\emptyset$ 180	1 x 13W	≤ 19	70	195 x 151	1000	D12/T113HFWX1	D12/T113HFWX2 -
			1 x 18W	≤ 22	80	195 x 151	1000	D12/T118HFWX1	D12/T118HFWX2 •
		$\emptyset$ 205	1 x 26W	≤ 22	79	220 x 160	1000	D12/T126HFWX1	D12/T126HFWX2 •
			1 x 32W	≤ 25	83	220 x 160	1000	D12/T132HFWX1	D12/T132HFWX2 •
		$\emptyset$ 230	1 x 42W	≤ 25	77	245 x 171	1000	D12/T142HFWX1	D12/T142HFWX2 -
			2 x 26W	≤ 25	73	245 x 171	1000	D12/T226HFWX1	D12/T226HFWX2 •
			2 x 32W	≤ 25	73	245 x 171	1000	D12/T232HFWX1	D12/T232HFWX2 •
	flat trim - reflector - involute - gear housing is detachable 	cutout	TC-T						
		$\emptyset$ 180	1 x 13W	≤ 19	64	199 x 148	1000	D10/T113HFWX3	D10/T113HFWX4 -
			1 x 18W	≤ 22	72	199 x 148	1000	D10/T118HFWX3	D10/T118HFWX4 •
		$\emptyset$ 205	1 x 26W	≤ 22	72	224 x 157	1000	D10/T126HFWX3	D10/T126HFWX4 •
			1 x 32W	≤ 25	76	224 x 157	1000	D10/T132HFWX3	D10/T132HFWX4 •
		$\emptyset$ 230	1 x 42W	≤ 25	70	249 x 168	1000	D10/T142HFWX3	D10/T142HFWX4 -
	spec ²		2 x 26W	≤ 25	66	249 x 168	1000	D10/T226HFWX3	D10/T226HFWX4 •
			2 x 32W	≤ 25	67	249 x 168	1000	D10/T232HFWX3	D10/T232HFWX4 •
		$\emptyset$ 180	1 x 13W	≤ 19	70	199 x 148	1000	D12/T113HFWX3	D12/T113HFWX4 -
			1 x 18W	≤ 22	80	199 x 148	1000	D12/T118HFWX3	D12/T118HFWX4 •
		$\emptyset$ 205	1 x 26W	≤ 22	79	224 x 157	1000	D12/T126HFWX3	D12/T126HFWX4 •
			1 x 32W	≤ 25	83	224 x 157	1000	D12/T132HFWX3	D12/T132HFWX4 •
		$\emptyset$ 230	1 x 42W	≤ 25	77	249 x 168	1000	D12/T142HFWX3	D12/T142HFWX4 -
			2 x 26W	≤ 25	73	249 x 168	1000	D12/T226HFWX3	D12/T226HFWX4 •
			2 x 32W	≤ 25	73	249 x 168	1000	D12/T232HFWX3	D12/T232HFWX4 •

¹ sat: satin-anodised aluminium² spec: specular aluminiumD10
Ø 180D10
Ø 205D10
Ø 230 - 1 lampD10
Ø 230 - 2 lampD12
Ø 180D12
Ø 205D12
Ø 230 - 1 lampD12
Ø 230 - 2 lamp



D1 with glass ring - webref. SDL001C4



D16 asymmetric beam - webref. SDL011K1



D1 IP44 - webref. SDL011B6

D1

material	optics	lamp type	UGR	η %	$\varnothing$ x H mm	plan N.	white	order code RAL9006-aluminium white	 option	
Luxial®										
wafer trim - reflector										
										
75°	spec ²	cutout Ø 205	TC-T							
			1 x 18W	≤ 25	79	220 x 100	1002	D14/T118HFWX1	D14/T118HFWX2	•
			1 x 26W	≤ 28	85	220 x 100	1002	D14/T126HFWX1	D14/T126HFWX2	•
			1 x 32W	≤ 28	82	220 x 100	1002	D14/T132HFWX1	D14/T132HFWX2	•
			2 x 26W	≤ 28	77	220 x 100	1002	D14/T226HFWX1	D14/T226HFWX2	•
opliggende board - reflector										
										
75°	spec ²	cutout Ø 205	TC-T							
			1 x 18W	≤ 25	79	224 x 97	1002	D14/T118HFWX3	D14/T118HFWX4	•
			1 x 26W	≤ 28	85	224 x 97	1002	D14/T126HFWX3	D14/T126HFWX4	•
			1 x 32W	≤ 28	82	224 x 97	1002	D14/T132HFWX3	D14/T132HFWX4	•
			2 x 26W	≤ 28	77	224 x 97	1002	D14/T226HFWX3	D14/T226HFWX4	•
wafer trim - reflector - involute - asymmetric-beam distribution - gear housing is detachable										
										
65°	sat ¹	cutout Ø 205	TC-T							
			1 x 26W	-	66	220 x 160	1000	D16/T126HFWX1	D16/T126HFWX2	•
			1 x 32W	-	66	220 x 160	1000	D16/T132HFWX1	D16/T132HFWX2	•
		Ø 230	1 x 42W	-	74	245 x 171	1000	D16/T142HFWX1	D16/T142HFWX2	-
	spec ²	Ø 205	1 x 26W	-	69	220 x 160	1000	D18/T126HFWX1	D18/T126HFWX2	•
			1 x 32W	-	69	220 x 160	1000	D18/T132HFWX1	D18/T132HFWX2	•
		Ø 230	1 x 42W	-	74	245 x 171	1000	D18/T142HFWX1	D18/T142HFWX2	-
flat trim - reflector - involute - asymmetric-beam distribution - gear housing is detachable										
										
65°	sat ¹	cutout Ø 205	TC-T							
			1 x 26W	-	66	224 x 157	1000	D16/T126HFWX3	D16/T126HFWX4	•
			1 x 32W	-	66	224 x 157	1000	D16/T132HFWX3	D16/T132HFWX4	•
		Ø 230	1 x 42W	-	74	249 x 168	1000	D16/T142HFWX3	D16/T142HFWX4	-
	spec ²	Ø 205	1 x 26W	-	69	224 x 157	1000	D18/T126HFWX3	D18/T126HFWX4	•
			1 x 32W	-	69	224 x 157	1000	D18/T132HFWX3	D18/T132HFWX4	•
		Ø 230	1 x 42W	-	74	249 x 168	1000	D18/T142HFWX3	D18/T142HFWX4	-

¹ sat: satin-anodised aluminium

² spec: specular aluminium

D14
1 lamp

D14
2 lamp

D16/D18
Ø 205

D16/D18
Ø 230



D1 with frosted disc - webref. SDL001C5



D1 with design cone - webref. SDL011J2



D1 with radial louvre - webref. SDL011A6

D1

Options and accessories Luxial®

with wafer trim

version with air extraction (not for 13W and 18W)	for D10 and D12 ø 205 mm - 115 cm ² ø 230 mm - 127 cm ²	code + T9	Plan N. 1001
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with flat trim

glass ring	code + 2	Plan N. 1003
frosted disc	code + 3	Plan N. 1003
design disc	code + 4	Plan N. 1003
design cone	code + 5	Plan N. 1004
design cylinder	code + 6	Plan N. 1004
 IP44 version (compliant from below)	code + T1	
transparent colour filter for design-accessories: disc, cone and cylinder: red	D1H2-1	
transparent colour filter for design-accessories: disc, cone and cylinder: blue	D1H2-2	
transparent colour filter for design-accessories: disc, cone and cylinder: light green	D1H2-3	

with wafer and flat trim

radial louvre, 55°	for D10, D12 and D14 ø 205 mm ø 230 mm	code + 1	
housing for recessed mounting in concrete ceiling	ø 180 mm	D1H3-180	p 378
	ø 205 mm	D1H3-205	p 378
	ø 230 mm	D1H3-230	p 378



Save up to 75% of energy
see p 236 up to 261





D2 – webref. SDL031A1



D2

	Housing	Lacquered aluminium housing White or aluminium white RAL9006
	Optic	Reflector with diamond facets - wide-angle

Dimensional sketches p 410

Table explanation p 427

material optics	lamp type	UGR	η %	Ø x H mm	plan N.	order code ¹	 option
Luxial® Reflector - involute							
	 TC-T						
65° spec ²	1 x 18W	≤ 22	83	230 x 212	1100	D22/T118HFW	-
	1 x 26W	≤ 22	79	230 x 212	1100	D22/T126HFW	-
	1 x 32W	≤ 25	83	230 x 212	1100	D22/T132HFW	-

¹ code + X1: luminaire in RAL9016-white / code + X2: luminaire in RAL9006-aluminium white
² spec: specular aluminium


Save up to 75% of energy
see p 236 up to 261







D3 with glass border – webref. SDV011J0



D3 IP44 – webref. SDV011B3



D3 with air extraction – webref. SDV011A3



D3



Housing

Housing of polycarbonate and galvanised sheet steel, trim of lacquered sheet steel
Wieland connection
White or white aluminium RAL9006 trim

Air extraction

Possible through option T9 for wafer trim versions (not for x 175)

Dimensional sketches p 410

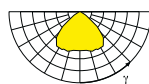
Mounting bracket 1 – 35mm is included as standard

Table explanation p 427

material	optics	lamp type	UGR	η %	L x W x H mm	plan N.	white	order code RAL9006-aluminium white	 option	
Luxial®										
wafer trim - reflector - involute - gear housing is detachable										
		 TC-T								
60°	sat ¹	cutout Ø 175	1 x 13W	≤ 22	76	188 x 188 x 125	1200	D30/T113HFWX1	D30/T113HFWX2	-
			1 x 18W	≤ 22	90	188 x 188 x 125	1200	D30/T118HFWX1	D30/T118HFWX2	•
		Ø 205	1 x 26W	≤ 22	85	218 x 218 x 142	1200	D30/T126HFWX1	D30/T126HFWX2	•
			1 x 32W	≤ 22	91	218 x 218 x 142	1200	D30/T132HFWX1	D30/T132HFWX2	•
			2 x 26W	≤ 25	84	218 x 218 x 142	1200	D30/T226HFWX1	D30/T226HFWX2	•
			2 x 32W	≤ 25	75	218 x 218 x 142	1200	D30/T232HFWX1	D30/T232HFWX2	•
flat trim - reflector - involute - gear housing is detachable										
		 TC-T								
60°	sat ¹	cutout Ø 175	1 x 13W	≤ 22	76	192 x 192 x 125	1200	D30/T113HFWX3	D30/T113HFWX4	-
			1 x 18W	≤ 22	90	192 x 192 x 125	1200	D30/T118HFWX3	D30/T118HFWX4	•
		Ø 205	1 x 26W	≤ 22	85	218 x 222 x 139	1200	D30/T126HFWX3	D30/T126HFWX4	•
			1 x 32W	≤ 22	91	218 x 222 x 139	1200	D30/T132HFWX3	D30/T132HFWX4	•
			2 x 26W	≤ 25	84	218 x 222 x 139	1200	D30/T226HFWX3	D30/T226HFWX4	•
			2 x 32W	≤ 25	75	218 x 222 x 139	1200	D30/T232HFWX3	D30/T232HFWX4	•

¹ sat: satin-anodised aluminium

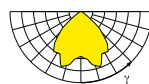
Save up to 75% of energy
see p 236 up to 261



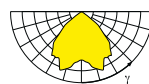
D30
X175 - 1 x 13W



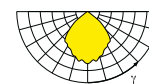
D30
X175 - 1 x 18W



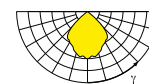
D30
X205 - 1 x 26W



D30
X205 - 1 x 32W



D30
X205 - 2 x 26W



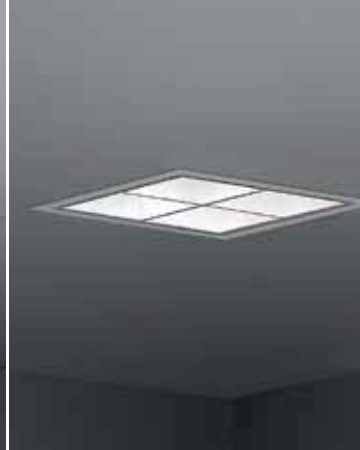
D30
X205 - 2 x 32W



D3 with frosted plate - webref. SDV011J1



D3 asymmetric-beam distribution - webref. SDV011K1



D3 with crossed baffles - webref. SDV011A9

D3

Mounting bracket 1 - 35 mm is included as standard

Table explanation p 427

material	optics	lamp type	UGR	η %	L x W x H mm	plan N.	white	order code RAL9006-aluminium white	option
Luxial®									
wafer trim - reflector - involute - asymmetric-beam distribution - gear housing is detachable									
									
60°	sat ¹	cutout Ø 205	TC- T						
			1 x 26W	-	82	218 x 218 x 142	1200	D36/T126HFWX1	D36/T126HFWX2 •
			1 x 32W	-	88	218 x 218 x 142	1200	D36/T132HFWX1	D36/T132HFWX2 •
flat trim - reflector - involute - asymmetric-beam distribution - gear housing is detachable									
									
60°	sat ¹	cutout Ø 205	TC-T						
			1 x 26W	-	82	218 x 222 x 139	1200	D36/T126HFWX3	D36/T126HFWX4 •
			1 x 32W	-	88	218 x 222 x 139	1200	D36/T132HFWX3	D36/T132HFWX4 •

¹ sat: satin-anodised aluminium

Options and accessories Luxial®

with wafer trim

version with air extraction	for ø 205 mm - 54 cm ³	code + T9	plan N. 1201
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with flat trim

glass border	voor ø 205 mm	code + 2	plan N. 1202
frosted plate	voor ø 205 mm	code + 3	plan N. 1202
 IP44 version (compliant from below)		code + T1	plan N. 1202

with wafer and flat trim

crossed baffles, 60°	code + 0
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D36
Ø 205



D4 39W - webref. SD4001C1



D4 20W - webref. SD4001A1



D4



Housing

Housing in aluminium
Lacquered housing in RAL9003-white, LED module lacquered in RAL9005-black

Optic

Lens: wide angle

Design: mun* product design, Belgium

Dimensional sketches p 410

Table explanation p 427

lamp type	UGR	lumen luminaire	Ø x H mm	plan N.	order code	option
Downlight - flat trim						
LED						
HIGH POWER						
1 x 20W - natural white	≤ 19	1290	200 x 74	1300	D42/LEDN20S	-
1 x 20W - warm white	≤ 19	1120	200 x 74	1300	D42/LEDW20S	-
1 x 39W - natural white	≤ 19	2490	250 x 74	1301	D42/LEDN39S	-
1 x 39W - warm white	≤ 19	2150	250 x 74	1301	D42/LEDW39S	-

Options and accessories

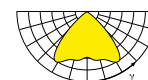
reinforcing ring for soft ceilings (for Ø 200 mm)	D4H1010-180
reinforcing ring for soft ceilings (for Ø 250 mm)	D4H1010-230

Colour options

housing and led module	in RAL9005-black	Consult ETAP
	in RAL9003-white	
	in grey	



Save up to 75% of energy
see p 236 up to 261



D42





D5 - webref. SD5001A1

D5



Housing Enameled injection moulded aluminium housing
Cover glass of borosilicate
White or black

Optic Reflector and lens - directional light beam

Dimensional sketches p 410

Mounting bracket 6 - 30 mm is included as standard

Table explanation p 427

optics	lamp type	UGR	η %	$\varnothing$ x H mm	plan N.	order code ¹	 optie		
Sextant									
flat trim - reflector - directional									
									
cutout	HIT-CRI								
8°	$\varnothing$ 210	1 x 150W	smal	≤ 19	65	220 x 200	1400	D50/C1150HF ²	-
14°	$\varnothing$ 210	1 x 150W	medium	≤ 22	76	220 x 200	1400	D51/C1150HF ²	-
21°	$\varnothing$ 210	1 x 150W	wide	≤ 25	63	220 x 200	1400	D52/C1150HF ²	-
flat trim - reflector - directional									
									
cutout	HIT-CRI								
8°	$\varnothing$ 210	1 x 35W	smal	≤ 18	65	220 x 200	1400	D50/C135HF ³	-
14°	$\varnothing$ 210	1 x 35W	medium	≤ 16	76	220 x 200	1400	D51/C135HF ³	-
21°	$\varnothing$ 210	1 x 35W	wide	≤ 22	63	220 x 200	1400	D52/C135HF ³	-
8°	$\varnothing$ 210	1 x 70W	smal	≤ 18	65	220 x 200	1400	D50/C170HF ³	-
14°	$\varnothing$ 210	1 x 70W	medium	≤ 19	76	220 x 200	1400	D51/C170HF ³	-
21°	$\varnothing$ 210	1 x 70W	wide	≤ 22	63	220 x 200	1400	D52/C170HF ³	-
flat trim - reflector - directional									
									
cutout	TC-T								
48°	$\varnothing$ 210	1 x 26W	wide	≤ 25	41	220 x 200	1400	D52/T126HFW ³	-
		1 x 32W	wide	≤ 25	41	220 x 200	1400	D52/T132HFW ³	-

¹ code + X3: luminaire in RAL9010-white / code + X5: luminaire in black

² IP40 compliant from below when pushed in

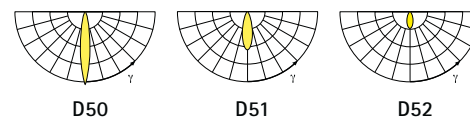
³ IP44 compliant from below when pushed in

Options and accessories

shielding	not for 150 W CDM-T lamp	code + 7
ceiling ring, cutout $\emptyset$ 212 mm		D5H1 p 378



Save up to 75% of energy
see p 236 up to 261



D50

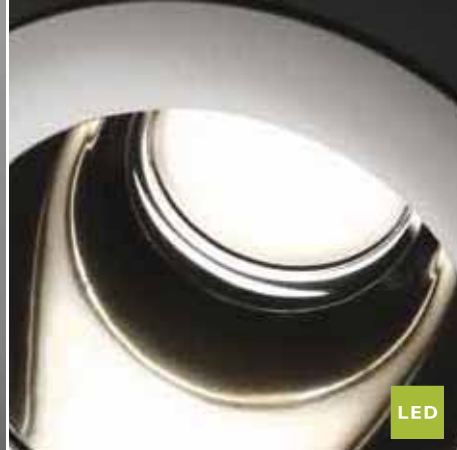
D51

D52





D9 - webref. SD9001A1



D9 - webref. SD9001A3



D9



Housing

Housing of polycarbonate and aluminium, trim in aluminium and heat sink in extruded aluminium
Wieland connection
Trim in RAL9010-white

Optic

Smooth reflector: wide-angle distribution

Dimensional sketches p 410

Table explanation p 427

	lamp type	UGR	lumen total	Ø x H mm	plan N.	order code	 option
flat trim - downlight							
							LED
50°	18 W- natural white	≤ 19	1010	173 x 145	1405	D92/LEDN18SX1	-
	19 W- warm white	≤ 19	1010	173 x 145	1405	D92/LEDW19SX1	-
	32 W- natural white	≤ 22	1580	173 x 145	1405	D92/LEDN32SX1	-
	36 W- warm white	≤ 22	1580	173 x 145	1405	D92/LEDW36SX1	-



Save up to 75% of energy
see p 236 up to 261

SPOTS

surface mounted



FS1
p 161



FS2
p 161



PHARE
p 163



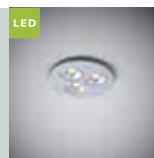
RIOT
p 166



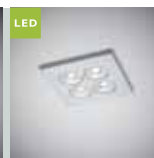
SQUAD
p 167



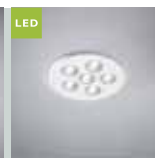
recessed



DIPP 3
p 155



DIPP 4
p 155



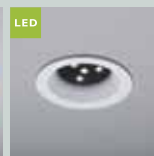
DIPP 6
p 156



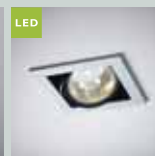
DIPP 9
p 156



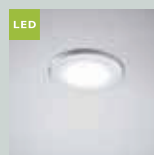
FACTOR
p 157



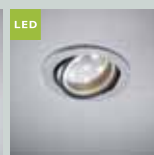
FLARE
p 158



MILKY-WAY
p 162



PLUTO
p 164



PLUTO MOVE
p 165



STARSKY
p 167



DIPP 3

Table explanation p 427

lamp type	Ø x H mm	plan N.	order code
LED LED HP			
70° 9 W- natural white	60 x 44	2040	DIPP3-3/LEDN9N
9 W- warm white	60 x 44	2040	DIPP3-3/LEDW9N

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white
/ code + X4: luminaire in RAL9005-black

Options and accessories

power LED drive, 350mA, dimmable (max. 6 luminaires per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 1 luminaire per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 1 luminaire per drive)	L9D07

Housing	Housing in lacquered aluminium with satin-anodised reflector
Light source	3 power LEDs of 3 W Dimmable



Dimensional sketches p 412



DIPP 3 - webref. SL005A9

DIPP 4

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code
LED LED HP			
70° 12 W- natural white	65 x 65 x 44	2041	DIPP4-3/LEDN12N
12 W- warm white	65 x 65 x 44	2041	DIPP4-3/LEDW12N

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white
/ code + X4: luminaire in black

Options and accessories

power LED drive, 350mA, dimmable (max. 6 luminaires per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 1 luminaire per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 1 luminaire per drive)	L9D07

Housing	Housing in lacquered aluminium with satin-anodised reflector
Light source	4 power LEDs of 3 W Dimmable



Dimensional sketches p 412



DIPP 4 - webref. SL005A10

DIPP 6

Housing	Housing in lacquered aluminium with satin-anodised reflector
Light source	6 power LEDs of 1,2 W Dimmable



Dimensional sketches p 412



DIPP6 - webref. SL005A1

DIPP 9

Housing	Housing in lacquered aluminium with satin-anodised reflector
Light source	9 power LEDs of 1,2 W Dimmable



Dimensional sketches p 412



DIPP9 - webref. SL005A4

Table explanation p 427

lamp type	Ø x H mm	plan N.	order code
LED HIGH POWER			
35° 7,2 W- warm white	84 x 65	2042	DIPP6-1/LEDW7N
70° 7,2 W- natural white	84 x 65	2042	DIPP6-2/LEDN7N
7,2 W- warm white	84 x 65	2042	DIPP6-2/LEDW7N

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

Options and accessories

power LED drive, 350mA, dimmable (max. 6 luminaires per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 1 luminaire per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 1 luminaire per drive)	L9D07

Table explanation p 427

lamp type	L x W x H mm	schets nr.	bestelcode
LED HIGH POWER			
35° 10,8 W- warm white	100 x 100 x 34	2043	DIPP9-1/LEDW11N
70° 10,8 W- natural white	100 x 100 x 34	2043	DIPP9-2/LEDN11N
10,8 W- warm white	100 x 100 x 34	2043	DIPP9-2/LEDW11N

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

Options and accessories

power LED drive, 350mA, dimmable (max. 6 luminaires per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 1 luminaire per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 1 luminaire per drive)	L9D07



FACTOR - webref. SL006A3



FACTOR - webref. SL006A2A



FACTOR

Housing	Housing in lacquered aluminium with silver coloured reflector Different colour combinations possible
Light source	18 power LEDs of 1,2 W in star shaped configuration Dimmable

Dimensional sketches p 412

Table explanation p 427

lamp type	Ø x H mm	plan N.	order code
LED HIGH POWER			
35° 21,6 W- warm white	120 x 60		FACTOR-1/LEDW22N
70° 21,6 W- natural white	120 x 60		FACTOR-2/LEDN22N
21,6 W- warm white	120 x 60		FACTOR-2/LEDW22N

¹ code + X1: luminaire in RAL9003-white with gold / code + X2: luminaire in RAL9006-aluminium white met aluminium grey / code + X4: luminaire in black with aluminium grey

Options and accessories

power LED drive, 350mA, dimmable (max. 1 luminaire per drive)	L9D06
---	-------





FLARE 6W fixed - webref. SFL001B1



FLARE



Housing Injection moulded aluminium housing
Housing lacquered in RAL9003-white, LED module in RAL9005-black

Optic Lens

Design: mun* product design, Belgium

Dimensional sketches p 412

Table explanation p 427

lamp type		lumen luminaire	Ø x H mm	plan N.	order code
Spot - fixed					
LED					
HIGH POWER					
small 16°	1 x 5W - natural white	287	96 x 63	2045	FLARE-10/LEDN5C
	1 x 5W - natural white	287	96 x 63	2045	FLARE-10/LEDN5V
	1 x 6W - natural white	376	96 x 63	2045	FLARE-10/LEDN6C
	1 x 6W - natural white	376	96 x 63	2045	FLARE-10/LEDN6V
	1 x 10W - natural white	629	96 x 63	2045	FLARE-10/LEDN10C
	1 x 10W - natural white	629	96 x 63	2045	FLARE-10/LEDN10V
	1 x 5W - warm white	250	96 x 63	2045	FLARE-10/LEDW5C
	1 x 5W - warm white	250	96 x 63	2045	FLARE-10/LEDW5V
	1 x 6W - warm white	327	96 x 63	2045	FLARE-10/LEDW6C
	1 x 6W - warm white	327	96 x 63	2045	FLARE-10/LEDW6V
	1 x 10W - warm white	547	96 x 63	2045	FLARE-10/LEDW10C
	1 x 10W - warm white	547	96 x 63	2045	FLARE-10/LEDW10V
medium 24°	1 x 5W - natural white	287	96 x 63	2045	FLARE-11/LEDN5C
	1 x 5W - natural white	287	96 x 63	2045	FLARE-11/LEDN5V
	1 x 6W - natural white	376	96 x 63	2045	FLARE-11/LEDN6C
	1 x 6W - natural white	376	96 x 63	2045	FLARE-11/LEDN6V
	1 x 10W - natural white	629	96 x 63	2045	FLARE-11/LEDN10C
	1 x 10W - natural white	629	96 x 63	2045	FLARE-11/LEDN10V
	1 x 5W - warm white	250	96 x 63	2045	FLARE-11/LEDW5C
	1 x 5W - warm white	250	96 x 63	2045	FLARE-11/LEDW5V
	1 x 6W - warm white	327	96 x 63	2045	FLARE-11/LEDW6C
	1 x 6W - warm white	327	96 x 63	2045	FLARE-11/LEDW6V
	1 x 10W - warm white	547	96 x 63	2045	FLARE-11/LEDW10C
	1 x 10W - warm white	547	96 x 63	2045	FLARE-11/LEDW10V
wide 36°	1 x 5W - natural white	287	96 x 63	2045	FLARE-12/LEDN5C
	1 x 5W - natural white	287	96 x 63	2045	FLARE-12/LEDN5V
	1 x 6W - natural white	376	96 x 63	2045	FLARE-12/LEDN6C
	1 x 6W - natural white	376	96 x 63	2045	FLARE-12/LEDN6V
	1 x 10W - natural white	629	96 x 63	2045	FLARE-12/LEDN10C
	1 x 10W - natural white	629	96 x 63	2045	FLARE-12/LEDN10V
	1 x 5W - warm white	250	96 x 63	2045	FLARE-12/LEDW5C
	1 x 5W - warm white	250	96 x 63	2045	FLARE-12/LEDW5V
	1 x 6W - warm white	327	96 x 63	2045	FLARE-12/LEDW6C
	1 x 6W - warm white	327	96 x 63	2045	FLARE-12/LEDW6V
	1 x 10W - warm white	547	96 x 63	2045	FLARE-12/LEDW10C
	1 x 10W - warm white	547	96 x 63	2045	FLARE-12/LEDW10V



LED

FLARE 5W directional - webref. SFL001B2

FLARE

Table explanation p 427

lamp type		lumen luminaire	Ø x H mm	plan N.	order code	option
Spot - directional						
LED						
HIGH POWER						
small 16°	1 x 5W - natural white	283	96 x 63	2046	FLARE-20/LEDN5C	-
	1 x 5W - natural white	283	96 x 63	2046	FLARE-20/LEDN5V	-
	1 x 6W - natural white	369	96 x 63	2046	FLARE-20/LEDN6C	-
	1 x 6W - natural white	369	96 x 63	2046	FLARE-20/LEDN6V	-
	1 x 10W - natural white	462	96 x 63	2046	FLARE-20/LEDN10C	-
	1 x 5W - warm white	246	96 x 63	2046	FLARE-20/LEDW5C	-
	1 x 5W - warm white	246	96 x 63	2046	FLARE-20/LEDW5V	-
	1 x 6W - warm white	321	96 x 63	2046	FLARE-20/LEDW6C	-
	1 x 6W - warm white	321	96 x 63	2046	FLARE-20/LEDW6V	-
	1 x 10W - warm white	402	96 x 63	2046	FLARE-20/LEDW10C	-
medium 24°	1 x 5W - natural white	283	96 x 63	2046	FLARE-21/LEDN5C	-
	1 x 5W - natural white	283	96 x 63	2046	FLARE-21/LEDN5V	-
	1 x 6W - natural white	369	96 x 63	2046	FLARE-21/LEDN6C	-
	1 x 6W - natural white	369	96 x 63	2046	FLARE-21/LEDN6V	-
	1 x 10W - natural white	462	96 x 63	2046	FLARE-21/LEDN10C	-
	1 x 5W - warm white	246	96 x 63	2046	FLARE-21/LEDW5C	-
	1 x 5W - warm white	246	96 x 63	2046	FLARE-21/LEDW5V	-
	1 x 6W - warm white	321	96 x 63	2046	FLARE-21/LEDW6C	-
	1 x 6W - warm white	321	96 x 63	2046	FLARE-21/LEDW6V	-
	1 x 10W - warm white	402	96 x 63	2046	FLARE-21/LEDW10C	-
wide 36°	1 x 5W - natural white	283	96 x 63	2046	FLARE-22/LEDN5C	-
	1 x 5W - natural white	283	96 x 63	2046	FLARE-22/LEDN5V	-
	1 x 6W - natural white	369	96 x 63	2046	FLARE-22/LEDN6C	-
	1 x 6W - natural white	369	96 x 63	2046	FLARE-22/LEDN6V	-
	1 x 10W - natural white	462	96 x 63	2046	FLARE-22/LEDN10C	-
	1 x 5W - warm white	246	96 x 63	2046	FLARE-22/LEDW5C	-
	1 x 5W - warm white	246	96 x 63	2046	FLARE-22/LEDW5V	-
	1 x 6W - warm white	321	96 x 63	2046	FLARE-22/LEDW6C	-
	1 x 6W - warm white	321	96 x 63	2046	FLARE-22/LEDW6V	-
	1 x 10W - warm white	402	96 x 63	2046	FLARE-22/LEDW10C	-

Options and accessories

LED drive, 350mA - 15W, 1-10V, dimmable	L9D09
LED drive, 500mA - 22W, 1-10V, dimmable	L9D10
Power supply 24V - 72W, not dimmable	L9S02

Colour options

housing and LED module	in RAL9005 -black	consult ETAP
	in RAL9003-white	
	in grey	

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code
Spot - electronic transformer included (possible bundles and power of the lamp, p. 368)			
QR			
1 x 50W	125 x 100 x 257	2050	FS10/H150
1 x 75W	240 x 160 x 257	2050	FS11/H175
Spot - specular aluminium - igniter and UV safety glass included			
HIT-CRI			
12°-36° 1 x 35W	255 x 160 x 257	2050	FS121/C135HF
1 x 70W	255 x 160 x 257	2050	FS121/C170HF

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code
Spot - electronic transformer included (possible bundles and power of the lamp, p. 368)			
QR			
1 x 50W	125 x 100 x 125	2060	FS20/H150
1 x 75W	240 x 160 x 225	2060	FS21/H175
Spot - specular aluminium - igniter and UV safety glass included			
HIT-CRI			
12°-36° 1 x 35W	255 x 160 x 225	2060	FS221/C135HF
1 x 70W	225 x 160 x 225	2060	FS221/C170HF



FS1

Housing	Housing of lacquered aluminium Reflector housing of brushed aluminium Brackets of matt nickel-coated aluminium
Optic	Directional light beam



Dimensional sketches p 412

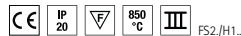


FS1 - webref. SF029C1



FS2

Housing	Housing of lacquered aluminium Reflector housing of brushed aluminium Brackets of matt nickel-coated aluminium 3-fase euro adapter
Optic	Directional light beam



Dimensional sketches p 412



FS2 - webref. SF030A1

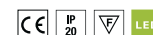


webref. SL008A4



MILKY-WAY - webref. SL008A1

MILKY-WAY



Housing	Housing in lacquered aluminium housing with aluminium reflector Trim in grey, inside housing in black
Light source	6 or 12 power LEDs of 1,2 W Dimmable

Dimensional sketches p 412

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code
Milky-Way Single			
[LED] HIGH POWER			
35° 7,2 W- warm white	112 x 112 x 81	2070	MILKYWAY-1/LEDW7N
70° 7,2 W- natural white	112 x 112 x 81	2070	MILKYWAY-2/LEDN7N
7,2 W- warm white	112 x 112 x 81	2070	MILKYWAY-2/LEDW7N
Milky-Way Double			
[LED] HIGH POWER			
35° 14,4 W- warm white	200 x 112 x 81	2070	MILKYWAY-1/LEDW14N
70° 14,4 W- natural white	200 x 112 x 81	2070	MILKYWAY-2/LEDN14N
14,4 W- warm white	200 x 112 x 81	2070	MILKYWAY-2/LEDW14N

Options and accessories

Milky-Way Power Single

power LED drive, 350mA, dimmable (max. 3 luminaires per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 1 luminaire per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 1 luminaire per drive)	L9D07

Milky-Way Power Double

power LED drive, 350 mA, dimmable (max. 1 luminaire per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 1 luminaire per 2 drives)	L9D08
power LED drive, 350/700 mA, dimmable (max. 1 luminaire per 2 drives)	L9D07



PHARE - webref. SL017B2



PHARE - webref. SL017A1



PHARE

Housing	Housing in lacquered aluminum with chromed reflector
Light source	6 power LEDs of 1,2 W and a fitted driver

Dimensional sketches p 412

lamp type		Ø x H mm	plan N.	order code
[LED] HIGH POWER				
35°	7,2 W- warm white	90 x 130	2071	PHARE-1/LEDW7S
70°	7,2 W- natural white	90 x 130	2071	PHARE-2/LEDN7S
	7,2 W- warm white	90 x 130	2071	PHARE-2/LEDW7S

¹ code + X1: luminaire in RAL9003-white with chrome/
code + X2: luminaire in RAL9006-aluminium white with black



webref. SL017A2

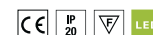


PLUTO - webref. SL010A3



PLUTO - webref. SL010A1

PLUTO



Housing	Housing in satin-anodised aluminium with (frosted) glass lamp shielding
Light source	3 or 6 power LEDs of 1,2 W Dimmable

Dimensional sketches p 412

Table explanation p 427

lamp type		L x W x H mm	plan N.	order code
Spot - frosted glass				
	LED HIGH POWER			
35°	3,6 W - warm white	70 x 51	2072	PLUTO-1/LEDW4NX31
	7,2 W - warm white	89 x 51	2073	PLUTO-1/LEDW7NX31
70°	3,6 W - natural white	70 x 51	2072	PLUTO-2/LEDN4NX31
	7,2 W - natural white	89 x 51	2073	PLUTO-2/LEDN7NX31
	3,6 W - warm white	70 x 51	2072	PLUTO-2/LEDW4NX31
	7,2 W - warm white	89 x 51	2073	PLUTO-2/LEDW7NX31
Spot - clear glass				
	LED HIGH POWER			
35°	3,6 W - warm white	70 x 51	2072	PLUTO-1/LEDW4NX32
	7,2 W - warm white	89 x 51	2073	PLUTO-1/LEDW7NX32
70°	3,6 W - natural white	70 x 51	2072	PLUTO-2/LEDN4NX32
	7,2 W - natural white	89 x 51	2073	PLUTO-2/LEDN7NX32
	3,6 W - warm white	70 x 51	2072	PLUTO-2/LEDW4NX32
	7,2 W - warm white	89 x 51	2073	PLUTO-2/LEDW7NX32

Options and accessories

Pluto Power 3,6 W

power LED drive, 350mA, dimmable (max. 6 luminaires per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 3 luminaires per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 3 luminaires per drive)	L9D07

Pluto Power 7,2 W

power LED drive, 350 mA, dimmable (max. 3 luminaires per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 1 luminaire per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 1 luminaire per drive)	L9D07



LED

webref. SL010B2



PLUTO MOVE

Housing	Housing in satin-anodised aluminium with directional optics
Light source	3 or 6 power LEDs of 1,2 W Dimmable

Dimensional sketches p 412

Table explanation p 427

lamp type		Ø x H mm	plan N.	order code
LED HIGH POWER				
35°	3,6 W- warm white	80 x 65	2074	PLUTOMOVE-1/LEDW4NX32
	7,2 W- warm white	98 x 70	2075	PLUTOMOVE-1/LEDW7NX32
70°	3,6 W- natural white	80 x 65	2074	PLUTOMOVE-2/LEDN4NX32
	7,2 W- natural white	98 x 70	2075	PLUTOMOVE-2/LEDN7NX32
	3,6 W- warm white	80 x 65	2074	PLUTOMOVE-2/LEDW4NX32
	7,2 W- warm white	98 x 70	2075	PLUTOMOVE-2/LEDW7NX32

Options and accessories

Pluto Move 3,6 W

power LED drive, 350mA, dimmable (max. 6 luminaires per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 3 luminaires per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 3 luminaires per drive)	L9D07

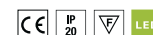
Pluto Move 7,2 W

power LED drive, 350 mA, dimmable (max. 3 luminaires per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 1 luminaire per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 1 luminaire per drive)	L9D07



RIOT - webref. SL015A1

RIOT



Housing	Lacquered aluminium spot that can be mounted on an optional lamp holder Lamp shielding in clear glass
Light source	6 or 9 power LEDs of 1,2 W Dimmable

Dimensional sketches p 412

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code
LED HIGH POWER			
35°	10,8 W - cold white	84 x 90	2076 RIOT-1/LEDC11NX22
	7,2 W - cold white	84 x 90	2076 RIOT-1/LEDC7NX22
	10,8 W - warm white	84 x 90	2076 RIOT-1/LEDW11NX22
	7,2 W - warm white	84 x 90	2076 RIOT-1/LEDW7NX22
70°	10,8 W - cold white	84 x 90	2076 RIOT-2/LEDC11NX22
	7,2 W - cold white	84 x 90	2076 RIOT-2/LEDC7NX22
	10,8 W - natural white	84 x 90	2076 RIOT-2/LEDN11NX22
	7,2 W - natural white	84 x 90	2076 RIOT-2/LEDN7NX22
	10,8 W - warm white	84 x 90	2076 RIOT-2/LEDW11NX22
	7,2 W - warm white	84 x 90	2076 RIOT-2/LEDW7NX22

Options and accessories

Drivers Riot Power 7,2 W

power LED drive, 350mA, dimmable (max. 6 luminaires per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 3 luminaires per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 3 luminaires per drive)	L9D07

Drivers Riot Superpower 10,8 W

power LED drive, 350 mA, dimmable (max. 3 luminaires per drive)	L9D06
power LED drive, 350/700 mA, not dimmable (max. 1 luminaire per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 1 luminaire per drive)	L9D07

Mechanical options Riot

Riot bracket and base	RIOT-H1
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webref. SL015B1

SQUAD

Table explanation p 427

lamp type	L x W x H mm	plan N	order code
LED HIGH POWER			
35° 10,8 W- warm white	120 x 80 x 140	2077	SQUAD-1/LEDW11NX1
70° 10,8 W- natural white	120 x 80 x 140	2077	SQUAD-2/LEDN11NX1
10,8 W- warm white	120 x 80 x 140	2077	SQUAD-2/LEDW11NX1

Options and accessories

power LED drive, 350/700 mA, not dimmable (max. 1 luminaire per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 1 luminaire per drive)	L9D07

Housing	Housing in lacquered aluminium with cooling grid on the back. Directional
Light source	9 power LEDs of 1,2 W Dimmable



Dimensional sketches p 412



SQUAD - webref. SL003A2A

STARKY

Table explanation p 427

lamp type	Ø x H mm	plan N.	order code
LED HIGH POWER			
35° 21,6 W- warm white	168 x 105	2078	STARKY-1/LEDW22NX3
70° 21,6 W- natural white	168 x 105	2078	STARKY-2/LEDN22NX3
21,6 W- warm white	168 x 105	2078	STARKY-2/LEDW22NX3

Options and accessories

power LED drive, 350 mA, dimmable (max. 1 luminaire per drive)	L9D06
--	-------

Housing	Housing in satin-anodised aluminium with star shaped optic. Directional
Light source	18 power LEDs of 1,2 W Dimmable



Dimensional sketches p 412



STARKY - webref. SL011A1B

WALL LUMINAIRES

uplights



RT4
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ALADIN
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ETALE
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led



BLOQ
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GUIDE
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UW
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WA?
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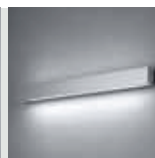
softlight



FA1
p 171



FA2
p 171



FA4
p 172



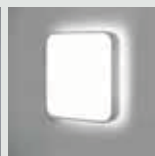
FA5
p 172



FA6
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FA7
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FA9
p 175



FA10
p 175



R8
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AMANTA
p 182



ASKY
p 183



ATITA
p 183



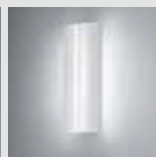
AVELA
p 184



AXTRA
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EGAL
p 117

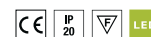


ELLO
p 185



BLOQ - webref. SL002A1

BLOQ



Housing	Simple, rectangular surface luminaire with coloured optics on top and bottom
Light source	8 power LEDs of 1,2 W and a specially designed driver

Dimensional sketches p 414

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	option
LED HIGH POWER				
35° 9,6 W- warm white	100 x 55 x 120	2209	BLOQ-1/LEDW10S	-
70° 9,6 W- natural white	100 x 55 x 120	2209	BLOQ-2/LEDN10S	-
9,6 W- warm white	100 x 55 x 120	2209	BLOQ-2/LEDW10S	-

¹ code + X1: luminaire in RAL9003-white with gold / code + X2: luminaire in RAL9006-aluminium white with aluminium / code + X4: luminaire in black with aluminium



BLOQ - webref. SL002A2



FA1 - FA2

	Housing	Housing of enameled sheet steel, trim of stainless steel
	Optic	Diffuser - opal acrylic

Dimensional sketches p 414

FA1

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	 option
Diffuser - acrylic				
				
1 x 22W	320 x 320 x 60	2210	FA1/E122HFW	-
1 x 40W	420 x 420 x 60	2210	FA1/E140HFW	-
1 x 55W	600 x 600 x 70	2210	FA1/E155HFW	-
Diffuser - acrylic				
				
1 x 13W	180 x 180 x 60	2210	FA1/D113HF	-
Diffuser - acrylic				
				
1 x 24W	320 x 320 x 60	2210	FA1/F124HFW	-
Diffuser - acrylic				
				
2 x 24W	420 x 420 x 60	2210	FA1/L224HFW	-
3 x 36W	600 x 600 x 70	2210	FA1/L336HFW	-



FA1 - webref. SF021C1

FA2

Table explanation p 427

lamp type	Ø x H mm	plan N.	order code	 option
Diffuser - acrylic				
				
1 x 22W	320 x 60	2220	FA2/E122HFW	-
1 x 40W	485 x 60	2220	FA2/E140HFW	-
1 x 55W	485 x 60	2220	FA2/E155HFW	-
Diffuser - acrylic				
				
1 x 13W	190 x 60	2220	FA2/D113HF	-
Diffuser - acrylic				
				
1 x 24W	320 x 60	2220	FA2/F124HFW	-



FA2 - webref. SF022C1

FA4



Housing	Housing of anodised aluminium
Optic	Upper and lower diffuser - opal acrylic



Dimensional sketches p 414



FA4 - webref. SF024C1

FA5



Housing	Lacquered sheet steel with anodised aluminium trim
Optic	Wall: diffuser front opal acrylic, back clear acrylic Suspension: diffuser opal acrylic



Dimensional sketches p 414



FA5 - webref. SR027B1

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	option
Diffuser - acrylic				
 TC-L				
1 x 18W	300 x 92 x 80	2230	FA4/L118HFW	-
Diffuser - acrylic				
 T5 - Ø 16 mm				
1 x 14W/24W	600 x 92 x 80	2230	FA4/114HFW	-
1 x 21W/39W	900 x 92 x 80	2230	FA4/121HFW	-
1 x 28W/54W	1200 x 92 x 80	2230	FA4/128HFW	-

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	option
surface mounted luminaire				
Diffuser - acrylic				
 TC-F				
1 x 18/24W	300 x 300 x 85	2241	FA5/F124HFW	-
Diffuser - acrylic				
 T-R				
1 x 40W	450 x 450 x 85	2241	FA5/E140HFW	-
1 x 22W + 1 x 40W	600 x 600 x 85	2241	FA5/E2240HFW	-
suspended luminaire				
Diffuser - acrylic				
 TC-F				
1 x 18/24W	300 x 300 x 85	2240	FA5P/F118HFW	-
Diffuser - acrylic				
 T-R				
1 x 40W	450 x 450 x 85	2240	FA5P/E140HFW	-
1 x 22W + 1 x 40W	600 x 600 x 85	2240	FA5P/E2240HFW	-

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	option
surface mounted luminaire				
Diffuser - acrylic				
				
TC-L				
1 x 24W	450 x 150 x 85	2251	FA6/L124HFW	-
1 x 36W	600 x 200 x 85	2251	FA6/L136HFW	-
Diffuser - acrylic				
				
TC-D				
1 x 18W	300 x 150 x 85	2251	FA6/D118HFW	-
Diffuser - acrylic				
				
T5 - Ø 16 mm				
2 x 54W	1300 x 360 x 85	2251	FA6/254HFW	-
suspended luminaire				
Diffuser - acrylic				
				
T-R				
2 x 28W/54W	1300 x 360 x 85	2250	FA6P/254HFW	-

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	option
surface mounted luminaire				
Diffuser - acrylic				
				
T-R				
1 x 22W	350 x 90	2261	FA7/E122HFW	-
1 x 22W + 1 x 40W	450 x 90	2261	FA7/E2240HFW	-
Diffuser - acrylic				
				
TC-L				
6 x 18W	650 x 125	2261	FA7/L618HFW	-
suspended luminaire				
Diffuser - acrylic				
				
T-R				
1 x 22W	350 x 90	2260	FA7P/E122HFW	-
1 x 22W + 1 x 40W	450 x 90	2260	FA7P/E2240HFW	-
Diffuser - acrylic				
				
TC-L				
6 x 18W	650 x 125	2260	FA7P/L618HFW	-

FA6



Housing	Lacquered sheet steel with anodised aluminium trim
Optic	Wall: diffuser front opal acrylic, back clear acrylic Suspension: diffuser opal acrylic



Dimensional sketches p 414



FA6 - webref. SF028C1

FA7



Housing	Lacquered sheet steel with anodised aluminium trim
Optic	Wall: diffuser front opal acrylic, back clear acrylic Suspension: diffuser opal acrylic



Dimensional sketches p 414



FA7 - webref. SF031B1



Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	 option
Diffuser - acrylic 				
TC-L				
2 x 24W	450 x 450 x 88	2270	FA9/L224HFW	-
3 x 36W	600 x 600 x 88	2270	FA9/L336HFW	-
Diffuser - acrylic 				
TC-F				
1 x 24W	300 x 300 x 88	2270	FA9/F124HFW	-

Table explanation p 427

lamp type	L x B x H mm	plan N.	order code	 option
Diffuser - acrylic 				
TC-L				
1 x 24W	450 x 150 x 88	2280	FA10/L124HFW	-
1 x 36W	600 x 200 x 88	2280	FA10/L136HFW	-
Diffuser - acrylic 				
TC-D				
1 x 18W	300 x 150 x 88	2280	FA10/D118HFW	-
Diffuser - acrylic 				
T5 - Ø 16 mm				
2 x 54W	1300 x 360 x 88	2280	FA10/254HFW	-



FA9

Housing	Lacquered sheet steel housing with anodised aluminium trim
Optic	Wall: diffuser front opal acrylic, back clear acrylic



Dimensional sketches p 414



FA9 - webref. SF0330A1



FA10

Housing	Lacquered sheet steel housing with anodised aluminium trim
Optic	Wall: diffuser front opal acrylic, back clear acrylic



Dimensional sketches p 414



FA10 - webref. SF0340A1



LED

GUIDE - webref. SL016A1



LED

GUIDE - webref. SL016A2

GUIDE



Housing	Aluminium housing with optic in frosted glass Suited for standard recessed box
Light source	4 SMD LEDs of 0,2 W

Dimensional sketches p 414

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	 option
LED SMD				
20° 0,2 W - cold white	80 x 83 x 45	2281	GUIDE-3/LEDC15X31	-

Options and accessories

recessed mounting box	GUIDE-H1
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RT4 - webref. SRT4012A

RT4



Housing

Lacquered sheet steel housing, polycarbonate cover
RAL9006 white housing with RAL7047-grey end pieces or housing and end pieces in RAL9006 white aluminium
Level adjustment on uneven walls by means of a slide

Optic

Asymmetric reflector

Dimensional sketches p 414

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code ¹	 option
Uplight reflector - satin-anodised aluminium - polycarbonate				
 T5 - Ø 16 mm				
2 x 24W	585 x 170 x 82	2300	RT4003/224HFW	-

¹ code + X1: luminaire in RAL9003-white with end pieces in RAL7047-grey /
code + X2: luminaire and end pieces in RAL9006-aluminium white

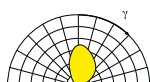
Options and accessories

semi-transparent design accent

red

green

blue







UW - webref. SUW001A1



UW

	Housing	Lacquered sheet steel housing with lacquered aluminium front plate
	Optic	Light guide, wide-angle

Dimensional sketches p 414

Table explanation p 427

lamp type	lumen luminaire	L x W x H mm	plan N.	order code ¹	option
Diffuser - acrylic - hollow wall					
	LED				
	HIGH POWER				
85° 3 W- natural white		200 x 80 x 43	2301	UW1/LEDN3S	-
3 W- warm white		200 x 80 x 43	2301	UW1/LEDW3S	-
Diffuser - acrylic - solid wall					
	LED				
	HIGH POWER				
85° 3 W- natural white		200 x 80 x 43	2302	UW1/LEDN3ST0	-
3 W- warm white		200 x 80 x 43	2302	UW1/LEDW3ST0	-

¹ code + X1: luminaire in RAL9003-white /
code + X2: luminaire in RAL9006-aluminium white

Options and accessories

electrical recessed box	UW1H1
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WA? - webref. SL004A2



WA?

Housing	Lacquered aluminium housing in RAL9003-white, black or RAL9006-aluminium white Connect directly to the main power supply 230V
Light source	1 power LED of 4 W Dimmable

Design: EER Architectural design, Belgium

Dimensional sketches p 414

Table explanation p 427

lamp type		L x W x H mm	plan N.	order code ¹	 option
Diffuser					
LED HIGH POWER					
20°	4 W- natural white	50 x 55 x 125	2304	WA?-3/LEDN4N	-
	4 W- warm white	50 x 55 x 125	2304	WA?-3/LEDW4N	-

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white / code + X4: luminaire in black

ALADIN



Housing	Housing of lacquered sheet steel, clear glass cover Perforated downlight element: lacquered sheet steel
Optic	Uplight



Dimensional sketches p 414



ALADIN - webref. SAL62A1A

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	option
Uplight 				
2 x 40W	580 x 190 x 206	2305	ALADIN580-240BE	-
Uplight 				
TC-L				
2 x 55W	580 x 190 x 206	2305	ALADIN580-255BG	-

AMANTA



Housing	Lacquered sheet steel housing, optics mounting by screws Perforated and closed lamp shielding: lacquered sheet steel
Optic	Softlight



Dimensional sketches p 414



AMANTA - webref. SAL12A1

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	option
Softlight - polycarbonate 				
TC-L				
3 x 40W	780 x 660 x 110	2340	AMANTA780-340BE	•

Table explanation p 427

lamp type	Ø x H mm	plan N.	order code	 option
Diffuser - polycarbonate / HaloOptics®				
				
T-R				
1 x 40W	640 x 162	2345	ASKY600-C140HRBE	•



ASKY

Housing	Lacquered sheet steel housing with lamp shielding which hinges open Diffuse lamp shielding - HaloOptics®
Optic	Diffuser - HaloOptics® for high efficiency



Dimensional sketches p 414



ASKY - webref. SAL68A1A

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	 option
Softlight - glass				
				
TC-L				
2 x 18W	310 x 242 x 108	2350	ATITA310-218VEBE	•
2 x 34/36/40W	580 x 242 x 108	2350	ATITA580-234/36/40VEBE	•



ATITA

Housing	Lacquered sheet steel housing with 2-part lamp shielding which hinges open Lamp shielding: matt glass with fine striped texture in al aluminium profile
Optic	Softlight



Dimensional sketches p 414



ATITA - webref. SAL53A1

AVELA



Housing	Lacquered sheet steel housing with clicked-on lamp shielding Perforated and closed lamp shielding: lacquered sheet steel
Optic	Softlight



Dimensional sketches p 414



AVELA – webref. SAL34D2

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	option
Softlight - perforated lamp shielding 				
TC-L				
2 x 18W	340 x 340 x 100	2360	AVELA340-218BE	•

AXTRA



Housing	Lacquered sheet steel housing, optics mounting by screws or by click system Perforated lamp shielding: lacquered sheet steel Diffuse lamp shielding: HaloOptics®
Optic	Softlight - high reflection laquer Diffuser - HaloOptics® for high efficiency



Dimensional sketches p 414



AXTRA – webref. SAL63D2

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	option
Softlight - polycarbonate / HaloOptics® 				
T5 - Ø 16 mm				
2 x 24W	615 x 306 x 107	2371	AXTRA600-224HRBE	•
Softlight - perforated lamp shielding 				
T5 - Ø 16 mm				
2 x 24W	615 x 306 x 107	2370	AXTRA600-224BE	•

Table explanation p 427

lamp type	L x B x H mm	plan N.	order code	option
Softlight - perforated lamp shielding				
2 x 36W	505 x 230 x 108	2380	ELLO500-236PFBE	-



ELLO

Housing	Lacquered sheet steel housing with 2-part lamp shielding which hinges open Perforated lamp shielding: lacquered sheet steel
Optic	Softlight - high reflection lacquer



Dimensional sketches p 414



ELLO - webref. SAL49C1

Table explanation p 427

lamp type	L x W x H mm	plan N.	order code	option
Uplight				
TC-L				
2 x 55W	580 x 250 x 80	2390	ETALE580-255BLBE	-
3 x 55W	580 x 310 x 85	2390	ETALE580-355BLDABE	-

Options and accessories

cap	code + CAP
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ETALE

Housing	Housing of lacquered sheet steel, polycarbonate cover Perforated downlight element: lacquered sheet steel
Optic	Uplight



Dimensional sketches p 414



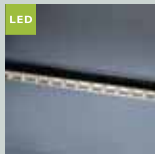
ETALE - webref. SAL37C1

DECORATIVE & ACCENT

surface mounted



BARRY
p 188



LEDSTRIP 20
p 190



LEDSTRIP 30
193



LEDSTRIP
SMD
p 194

recessed mounted



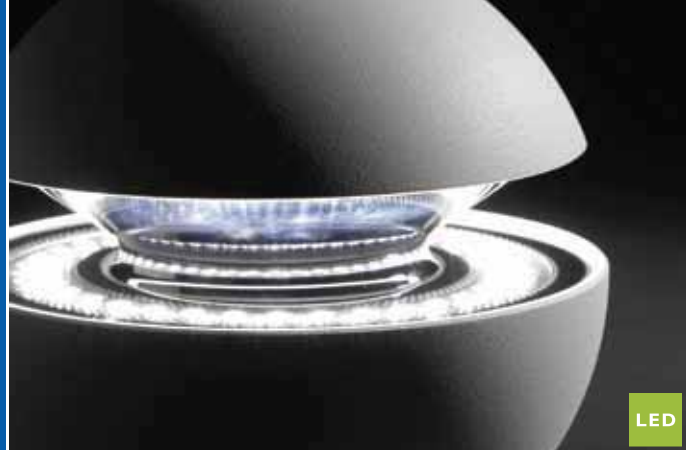
GROUND MOVE
p 189



MINI
p 195



DECORATIVE AND ACCENT



LED

BARRY - webref. SL012A2

BARRY



Housing	Lacquered aluminium housing Chromed reflector
Light source	5 mm LED 5W Connect directly to main power supply 230V

Dimensional sketches p 418

Table explanation p 427

lamp type		Ø x H mm	plan N.	order code ¹	 option
20°	5 W - natural white	180 x 180	2391	BARRY-2/LEDN5S	-

¹ code + X1: luminaire in RAL9003-white / code + X4: luminaire in black



GROUND MOVE - webref. SL007A3



GROUND MOVE - webref. SL007A1



GROUNDMOVE

Housing	Satin-anodised, aluminium housing with directional lamp base and clear glass cover. Recessed mounting set for easy installation.
Optic	9 power LEDs of 1,2 W Dimmable

Dimensional sketches p 418

Table explanation p 427

lamp type	Ø x H mm	plan N.	order code	option
LED HIGH POWER				
35° 10,8 W - cold white	150 x 171	2392	GROUNDMOVE-1/LEDC11NX3	-
10,8 W - warm white	150 x 171	2392	GROUNDMOVE-1/LEDW11NX3	-
70° 10,8 W - cold white	150 x 171	2392	GROUNDMOVE-2/LEDC11NX3	-
10,8 W - natural white	150 x 171	2392	GROUNDMOVE-2/LEDN11NX3	-
10,8 W - warm white	150 x 171	2392	GROUNDMOVE-2/LEDW11NX3	-

Options and accessories

power LED drive, 350/700 mA, not dimmable (max. 1 luminaire per drive)	L9D08
power LED drive, 350/700 mA, dimmable (max. 1 luminaire per drive)	L9D07

DECORATIVE AND ACCENT



Ledstrip20 - webref. SL013A3

LED

LEDSTRIP20



Housing	Transparent plexiglass tube wit flat reflector Available in different lengths
Light source	5 mm LED

Dimensional sketches p 418

Table explanation p 427

L x Ø mm	lamp type		plan N.	order code
	LED 5 MM			
343 x 26	15°	1 x 3W - warm white	2393	LEDSTRIP20-1/LEDW3NX3
	20°	1 x 3W - cold white	2393	LEDSTRIP20-2/LEDC3NX3
	20°	1 x 3W - natural white	2393	LEDSTRIP20-2/LEDN3NX3
	50°	1 x 3W - warm white	2393	LEDSTRIP20-3/LEDW3NX3
543 x 26	15°	1 x 5W - warm white	2393	LEDSTRIP20-1/LEDW5NX3
	20°	1 x 5W - cold white	2393	LEDSTRIP20-2/LEDC5NX3
	20°	1 x 5W - natural white	2393	LEDSTRIP20-2/LEDN5NX3
	50°	1 x 5W - warm white	2393	LEDSTRIP20-3/LEDW5NX3
643 x 26	15°	1 x 6W - warm white	2393	LEDSTRIP20-1/LEDW6NX3
	20°	1 x 6W - cold white	2393	LEDSTRIP20-2/LEDC6NX3
	20°	1 x 6W - natural white	2393	LEDSTRIP20-2/LEDN6NX3
	50°	1 x 6W - warm white	2393	LEDSTRIP20-3/LEDW6NX3
743 x 26	15°	1 x 7W - warm white	2393	LEDSTRIP20-1/LEDW7NX3
	20°	1 x 7W - cold white	2393	LEDSTRIP20-2/LEDC7NX3
	20°	1 x 7W - natural white	2393	LEDSTRIP20-2/LEDN7NX3
	50°	1 x 7W - warm white	2393	LEDSTRIP20-3/LEDW7NX3
843 x 26	15°	1 x 8W - warm white	2393	LEDSTRIP20-1/LEDW8NX3
	20°	1 x 8W - cold white	2393	LEDSTRIP20-2/LEDC8NX3
	20°	1 x 8W - natural white	2393	LEDSTRIP20-2/LEDN8NX3
	50°	1 x 8W - warm white	2393	LEDSTRIP20-3/LEDW8NX3
943 x 26	15°	1 x 9W - warm white	2393	LEDSTRIP20-1/LEDW9NX3
	20°	1 x 9W - cold white	2393	LEDSTRIP20-2/LEDC9NX3
	20°	1 x 9W - natural white	2393	LEDSTRIP20-2/LEDN9NX3
	50°	1 x 9W - warm white	2393	LEDSTRIP20-3/LEDW9NX3
1043 x 26	15°	1 x 10W - warm white	2393	LEDSTRIP20-1/LEDW10NX3
	20°	1 x 10W - cold white	2393	LEDSTRIP20-2/LEDC10NX3
	20°	1 x 10W - natural white	2393	LEDSTRIP20-2/LEDN10NX3
	50°	1 x 10W - warm white	2393	LEDSTRIP20-3/LEDW10NX3
1143 x 26	15°	1 x 11W - warm white	2393	LEDSTRIP20-1/LEDW11NX3
	20°	1 x 11W - cold white	2393	LEDSTRIP20-2/LEDC11NX3
	20°	1 x 11W - natural white	2393	LEDSTRIP20-2/LEDN11NX3
	50°	1 x 11W - warm white	2393	LEDSTRIP20-3/LEDW11NX3
1243 x 26	15°	1 x 12W - warm white	2393	LEDSTRIP20-1/LEDW12NX3
	20°	1 x 12W - cold white	2393	LEDSTRIP20-2/LEDC12NX3
	20°	1 x 12W - natural white	2393	LEDSTRIP20-2/LEDN12NX3
	50°	1 x 12W - warm white	2393	LEDSTRIP20-3/LEDW12NX3

Table explanation p 427

L x Ø mm	lamp type		plan N.	order code
	LED 5 MM			
1343 x 26	15°	1 x 13W - warm white	2393	LEDSTRIP20-1/LEDW13NX3
	20°	1 x 13W - cold white	2393	LEDSTRIP20-2/LEDC13NX3
	20°	1 x 13W - natural white	2393	LEDSTRIP20-2/LEDN13NX3
	50°	1 x 13W - warm white	2393	LEDSTRIP20-3/LEDW13NX3
1443 x 26	15°	1 x 14W - warm white	2393	LEDSTRIP20-1/LEDW14NX3
	20°	1 x 14W - cold white	2393	LEDSTRIP20-2/LEDC14NX3
	20°	1 x 14W - natural white	2393	LEDSTRIP20-2/LEDN14NX3
	50°	1 x 14W - warm white	2393	LEDSTRIP20-3/LEDW14NX3
1543 x 26	15°	1 x 15W - warm white	2393	LEDSTRIP20-1/LEDW15NX3
	20°	1 x 15W - cold white	2393	LEDSTRIP20-2/LEDC15NX3
	20°	1 x 15W - natural white	2393	LEDSTRIP20-2/LEDN15NX3
	50°	1 x 15W - warm white	2393	LEDSTRIP20-3/LEDW15NX3
1643 x 26	15°	1 x 16W - warm white	2393	LEDSTRIP20-1/LEDW16NX3
	20°	1 x 16W - cold white	2393	LEDSTRIP20-2/LEDC16NX3
	20°	1 x 16W - natural white	2393	LEDSTRIP20-2/LEDN16NX3
	50°	1 x 16W - warm white	2393	LEDSTRIP20-3/LEDW16NX3
1743 x 26	15°	1 x 17W - warm white	2393	LEDSTRIP20-1/LEDW17NX3
	20°	1 x 17W - cold white	2393	LEDSTRIP20-2/LEDC17NX3
	20°	1 x 17W - natural white	2393	LEDSTRIP20-2/LEDN17NX3
	50°	1 x 17W - warm white	2393	LEDSTRIP20-3/LEDW17NX3
1843 x 26	15°	1 x 18W - warm white	2393	LEDSTRIP20-1/LEDW18NX3
	20°	1 x 18W - cold white	2393	LEDSTRIP20-2/LEDC18NX3
	20°	1 x 18W - natural white	2393	LEDSTRIP20-2/LEDN18NX3
	50°	1 x 18W - warm white	2393	LEDSTRIP20-3/LEDW18NX3
1943 x 26	15°	1 x 19W - warm white	2393	LEDSTRIP20-1/LEDW19NX3
	20°	1 x 19W - cold white	2393	LEDSTRIP20-2/LEDC19NX3
	20°	1 x 19W - natural white	2393	LEDSTRIP20-2/LEDN19NX3
	50°	1 x 19W - warm white	2393	LEDSTRIP20-3/LEDW19NX3
2043 x 26	15°	1 x 20W - warm white	2393	LEDSTRIP20-1/LEDW20NX3
	20°	1 x 20W - cold white	2393	LEDSTRIP20-2/LEDC20NX3
	20°	1 x 20W - natural white	2393	LEDSTRIP20-2/LEDN20NX3
	50°	1 x 20W - warm white	2393	LEDSTRIP20-3/LEDW20NX3
2143 x 26	15°	1 x 21W - warm white	2393	LEDSTRIP20-1/LEDW21NX3
	20°	1 x 21W - cold white	2393	LEDSTRIP20-2/LEDC21NX3
	20°	1 x 21W - natural white	2393	LEDSTRIP20-2/LEDN21NX3
	50°	1 x 21W - warm white	2393	LEDSTRIP20-3/LEDW21NX3



LED

Ledstrip20 – webref. SL013A1

LEDSTRIP20

Table explanation p 427

Table Explanation p. 12

L x Ø mm	lamp type		plan N.	order code
LED 5 MM				
2243 x 26	15°	1 x 22W - warm white	2393	LEDSTRIP20-1/LEDW22NX3
	20°	1 x 22W - cold white	2393	LEDSTRIP20-2/LEDC22NX3
	20°	1 x 22W - natural white	2393	LEDSTRIP20-2/LEDN22NX3
	50°	1 x 22W - warm white	2393	LEDSTRIP20-3/LEDW22NX3
2343 x 26	15°	1 x 23W - warm white	2393	LEDSTRIP20-1/LEDW23NX3
	20°	1 x 23W - cold white	2393	LEDSTRIP20-2/LEDC23NX3
	20°	1 x 23W - natural white	2393	LEDSTRIP20-2/LEDN23NX3
	50°	1 x 23W - warm white	2393	LEDSTRIP20-3/LEDW23NX3
2443 x 26	15°	1 x 24W - warm white	2393	LEDSTRIP20-1/LEDW24NX3
	20°	1 x 24W - cold white	2393	LEDSTRIP20-2/LEDC24NX3
	20°	1 x 24W - natural white	2393	LEDSTRIP20-2/LEDN24NX3
	50°	1 x 24W - warm white	2393	LEDSTRIP20-3/LEDW24NX3
2543 x 26	15°	1 x 25W - warm white	2393	LEDSTRIP20-1/LEDW25NX3
	20°	1 x 25W - cold white	2393	LEDSTRIP20-2/LEDN25NX3
	20°	1 x 25W - natural white	2393	LEDSTRIP20-2/LEDN25NX3
	50°	1 x 25W - warm white	2393	LEDSTRIP20-3/LEDW25NX3
2643 x 26	15°	1 x 26W - warm white	2393	LEDSTRIP20-1/LEDW26NX3
	20°	1 x 26W - cold white	2393	LEDSTRIP20-2/LEDN26NX3
	20°	1 x 26W - natural white	2393	LEDSTRIP20-2/LEDN26NX3
	50°	1 x 26W - warm white	2393	LEDSTRIP20-3/LEDW26NX3
2743 x 26	15°	1 x 27W - warm white	2393	LEDSTRIP20-1/LEDW27NX3
	20°	1 x 27W - cold white	2393	LEDSTRIP20-2/LEDN27NX3
	20°	1 x 27W - natural white	2393	LEDSTRIP20-2/LEDN27NX3
	50°	1 x 27W - warm white	2393	LEDSTRIP20-3/LEDW27NX3
2843 x 26	15°	1 x 28W - warm white	2393	LEDSTRIP20-1/LEDW28NX3
	20°	1 x 28W - cold white	2393	LEDSTRIP20-2/LEDC28NX3
	20°	1 x 28W - natural white	2393	LEDSTRIP20-2/LEDN28NX3
	50°	1 x 28W - warm white	2393	LEDSTRIP20-3/LEDW28NX3
2943 x 26	15°	1 x 29W - warm white	2393	LEDSTRIP20-1/LEDW29NX3
	20°	1 x 29W - cold white	2393	LEDSTRIP20-2/LEDC29NX3
	20°	1 x 29W - natural white	2393	LEDSTRIP20-2/LEDN29NX3
	50°	1 x 29W - warm white	2393	LEDSTRIP20-3/LEDW29NX3
3043 x 26	15°	1 x 30W - warm white	2393	LEDSTRIP20-1/LEDW30NX3
	20°	1 x 30W - cold white	2393	LEDSTRIP20-2/LEDC30NX3
	20°	1 x 30W - natural white	2393	LEDSTRIP20-2/LEDN30NX3
	50°	1 x 30W - warm white	2393	LEDSTRIP20-3/LEDW30NX3

Options and accessories

Power supply

Power supply 12,5A (150W, 12V) (max. 12 m ledstrip)	L9S01
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Control units (for dimming and scene setting)

Mini Program Unit Pro (6 preprogrammed settings) - RGB	L9C01
Mini Program Unit Pro Plus (6 preprogrammed settings) - RGB + external switch	L9C02
Bus Drive Analog: 0-10V of 1-10V, monocolour	L9C03
Bus Drive Digital: push-button interface, RGB	L9C04
DMX 512 converter - RGB	L9C05
DMX 512 converter simplex - Monocolour	L9C06
Push-button interface - for connection of ledstrip	L9H06

Additional information on the control units can be found on page 381





LED

Ledstrip30 – webref. SL013A4



LEDSTRIP30

Housing	Transparent plexiglass tube with flat reflector Available in different lengths
Optic	5 mm LED

Dimensional sketches p 418

Table explanation p 427

L x Ø mm	lamp type	plan N.	order code
LED 5 MM			
343 x 26	15° 1 x 3,75W - RGB	2393	LEDSTRIP30-1/LEDA4NX3
	15° 1 x 3,75W - warm white	2393	LEDSTRIP30-1/LEDW4NX3
	20° 1 x 3,75W - cold white	2393	LEDSTRIP30-2/LEDC4NX3
	20° 1 x 3,75W - natural white	2393	LEDSTRIP30-2/LEDN4NX3
	50° 1 x 3,75W - warm white	2393	LEDSTRIP30-3/LEDW4NX3
643 x 26	90° 1 x 3,75W - RGB	2393	LEDSTRIP30-3/LEDA4NX3
	15° 1 x 7,5W - RGB	2393	LEDSTRIP30-1/LEDA8NX3
	15° 1 x 7,5W - warm white	2393	LEDSTRIP30-1/LEDW8NX3
	20° 1 x 7,5W - cold white	2393	LEDSTRIP30-2/LEDC8NX3
	20° 1 x 7,5W - natural white	2393	LEDSTRIP30-2/LEDN8NX3
943 x 26	50° 1 x 7,5W - warm white	2393	LEDSTRIP30-3/LEDW8NX3
	90° 1 x 7,5W - RGB	2393	LEDSTRIP30-3/LEDA8NX3
	15° 1 x 11,25W - RGB	2393	LEDSTRIP30-1/LEDA11NX3
	15° 1 x 11,25W - warm white	2393	LEDSTRIP30-1/LEDW11NX3
	20° 1 x 11,25W - cold white	2393	LEDSTRIP30-2/LEDC11NX3
1243 x 26	20° 1 x 11,25W - natural white	2393	LEDSTRIP30-2/LEDN11NX3
	50° 1 x 11,25W - warm white	2393	LEDSTRIP30-3/LEDW11NX3
	90° 1 x 11,25W - RGB	2393	LEDSTRIP30-3/LEDA11NX3
	15° 1 x 15W - RGB	2393	LEDSTRIP30-1/LEDA15NX3
	15° 1 x 15W - warm white	2393	LEDSTRIP30-1/LEDW15NX3
1543 x 26	20° 1 x 15W - cold white	2393	LEDSTRIP30-2/LEDC15NX3
	20° 1 x 15W - natural white	2393	LEDSTRIP30-2/LEDN15NX3
	50° 1 x 15W - warm white	2393	LEDSTRIP30-3/LEDW15NX3
	90° 1 x 15W - RGB	2393	LEDSTRIP30-3/LEDA15NX3
	15° 1 x 18,75W - RGB	2393	LEDSTRIP30-1/LEDA19NX3
1843 x 26	15° 1 x 18,75W - warm white	2393	LEDSTRIP30-1/LEDW19NX3
	20° 1 x 18,75W - cold white	2393	LEDSTRIP30-2/LEDC19NX3
	20° 1 x 18,75W - natural white	2393	LEDSTRIP30-2/LEDN19NX3
	50° 1 x 18,75W - warm white	2393	LEDSTRIP30-3/LEDW19NX3
	90° 1 x 18,75W - RGB	2393	LEDSTRIP30-3/LEDA19NX3
1843 x 26	15° 1 x 22,5W - RGB	2393	LEDSTRIP30-1/LEDA23NX3
	15° 1 x 22,5W - warm white	2393	LEDSTRIP30-1/LEDW23NX3
	20° 1 x 22,5W - cold white	2393	LEDSTRIP30-2/LEDC23NX3
	20° 1 x 22,5W - natural white	2393	LEDSTRIP30-2/LEDN23NX3
	50° 1 x 22,5W - warm white	2393	LEDSTRIP30-3/LEDW23NX3
1843 x 26	90° 1 x 22,5W - RGB	2393	LEDSTRIP30-3/LEDA23NX3

L x Ø mm	lamp type	plan N.	order code
LED 5 MM			
2143 x 26	15° 1 x 26,25W - RGB	2393	LEDSTRIP30-1/LEDA26NX3
	15° 1 x 26,25W - warm white	2393	LEDSTRIP30-1/LEDW26NX3
	20° 1 x 26,25W - cold white	2393	LEDSTRIP30-2/LEDC26NX3
	20° 1 x 26,25W - natural white	2393	LEDSTRIP30-2/LEDN26NX3
	50° 1 x 26,25W - warm white	2393	LEDSTRIP30-3/LEDW26NX3
2443 x 26	90° 1 x 26,25W - RGB	2393	LEDSTRIP30-3/LEDA26NX3
	15° 1 x 30W - RGB	2393	LEDSTRIP30-1/LEDA30NX3
	15° 1 x 30W - warm white	2393	LEDSTRIP30-1/LEDW30NX3
	20° 1 x 30W - cold white	2393	LEDSTRIP30-2/LEDC30NX3
	20° 1 x 30W - natural white	2393	LEDSTRIP30-2/LEDN30NX3
2743 x 26	50° 1 x 30W - warm white	2393	LEDSTRIP30-3/LEDW30NX3
	90° 1 x 30W - RGB	2393	LEDSTRIP30-3/LEDA30NX3
	15° 1 x 33,75W - RGB	2393	LEDSTRIP30-1/LEDA34NX3
	15° 1 x 33,75W - warm white	2393	LEDSTRIP30-1/LEDW34NX3
	20° 1 x 33,75W - cold white	2393	LEDSTRIP30-2/LEDC34NX3
3043 x 26	20° 1 x 33,75W - natural white	2393	LEDSTRIP30-2/LEDN34NX3
	50° 1 x 33,75W - warm white	2393	LEDSTRIP30-3/LEDW34NX3
	90° 1 x 33,75W - RGB	2393	LEDSTRIP30-3/LEDA34NX3
	15° 1 x 37,5W - RGB	2393	LEDSTRIP30-1/LEDA38NX3
	15° 1 x 37,5W - warm white	2393	LEDSTRIP30-1/LEDW38NX3
3043 x 26	20° 1 x 37,5W - cold white	2393	LEDSTRIP30-2/LEDC38NX3
	20° 1 x 37,5W - natural white	2393	LEDSTRIP30-2/LEDN38NX3
	50° 1 x 37,5W - warm white	2393	LEDSTRIP30-3/LEDW38NX3
	90° 1 x 37,5W - RGB	2393	LEDSTRIP30-3/LEDA38NX3

Options and accessories

Power supply

Power supply 12,5A (150W, 12V) (max. 12 m ledstrip)	L9S01
---	-------

Control units (for dimming and scene setting)

Mini Program Unit Pro (6 preprogrammed settings) - RGB	L9C01
Mini Program Unit Pro Plus (6 preprogrammed settings) - RGB + external switch	L9C02
Bus Drive Analog: 0-10V of 1-10V - MONOCOLOR	L9C03
Bus Drive Digital: push-button interface - RGB	L9C04
DMX 512 converter - RGB	L9C05
DMX 512 converter simplex - RGB	L9C06
Push-button interface - for connection of ledstrip	L9H06

Additional information on the control units can be found on page 381



LedstripSMD - webref. SL014A5

LED

LEDSTRIPSMD



Housing	Transparent plexiglass tube with flat reflector Available in different lengths
Light source	SMD LED Dimmable

Dimensional sketches p 418

Table explanation p 427

L x Ø mm	lamp type	plan N.	order code
	LED SMD		
343 x 26	1 x 6W - RGB	2393	LEDSTRIPSMD-3/LEDA6NX3
643 x 26	1 x 12W - RGB	2393	LEDSTRIPSMD-3/LEDA12NX3
943 x 26	1 x 18W - RGB	2393	LEDSTRIPSMD-3/LEDA18NX3
1243 x 26	1 x 24W - RGB	2393	LEDSTRIPSMD-3/LEDA24NX3
1555 x 26	1 x 30W - RGB	2393	LEDSTRIPSMD-3/LEDA30NX3
1843 x 26	1 x 36W - RGB	2393	LEDSTRIPSMD-3/LEDA36NX3
2143 x 26	1 x 42W - RGB	2393	LEDSTRIPSMD-3/LEDA42NX3
2443 x 26	1 x 48W - RGB	2393	LEDSTRIPSMD-3/LEDA48NX3
2743 x 26	1 x 54W - RGB	2393	LEDSTRIPSMD-3/LEDA54NX3
3055 x 26	1 x 60W - RGB	2393	LEDSTRIPSMD-3/LEDA60NX3

Options and accessories

Power supply

Power supply 12,5A (150W, 12V) (max. 12 m ledstrip)	L9S01
---	-------

Control units (for dimming and scene setting)

bus drive digital, with external push-buttons,, monocolour	L9C04
Mini programma unit pro (6 preprogrammed settings) - RGB	L9C01
Mini programma unit pro (6 preprogrammed settings) - RGB + external switch	L9C02
bus drive analogue (0.1V, 1-10V), RGB - monocolour	L9C03
DMX 512 converter - RGB	L9C05
DMX 512 converter simplex - RGB	L9C06
Push-button interface - connection RJ10 with silicone cable	L9H06

Additional information on the control units can be found on page 381



MINI - webref. SL009A4



MINI - webref. SL009A1



MINI

Housing	Lacquered aluminium housing, grey
Light source	5 mm LED Different control units and drivers available Dimmable

Dimensional sketches p 418

Table explanation p 427

lamp type	Ø x H mm	plan N.	order code	option
MINI 4W				
	LED 5 MM			
15° 4 W- warm white	63 x 25	2396	MINI-1/LEDW4NX2	-
20° 4 W- cold white	63 x 25	2396	MINI-2/LEDC4NX2	-
4 W- natural white	63 x 25	2396	MINI-2/LEDN4NX2	-
50° 4 W- warm white	63 x 25	2396	MINI-3/LEDW4NX2	-
MINI 8W				
	LED 5 MM			
15° 8 W- warm white	79 x 25	2397	MINI-1/LEDW8NX2	-
20° 8 W- cold white	79 x 25	2397	MINI-2/LEDC8NX2	-
8 W- natural white	79 x 25	2397	MINI-2/LEDN8NX2	-
50° 8 W- warm white	79 x 25	2397	MINI-3/LEDW8NX2	-

Options and accessories

Drivers MINI 4W

mini drive 4W (max. 1 luminaire per drive)	L9D01
drive eco monocolour 16/4 (max. 16 luminaires per drive)	L9D02
drive eco monocolour 32/4 (max. 32 luminaires per drive)	L9D03

Drivers MINI 8W

drive eco monocolour 8/8 (max. 8 luminaires per drive)	L9D04
drive eco monocolour 16/8 (max. 16 luminaires per drive)	L9D05

Control units for dimming and scene setting

Mini Program Unit Pro (6 preprogrammed settings) - RGB	L9C01
Mini Program Unit Pro Plus (6 preprogrammed settings) - RGB + external switch	L9C02
Bus Drive Analog - 0-10V of 1-10V - Monocolour	L9C03
Bus Drive Digital - push-buttons - RGB	
DMX512 Convertor - RGB	L9C05
DMX512 Convertor simplex - Monocolour	L9C06

Additional information on the control units can be found on page 381



PADEO – webref. SAL070A1A

FLOOR STANDING LUMINAIRES

PADEO



	Housing	Lacquered aluminium housing Diffuse lamp shielding: HaloOptics® Lacquered steel base
	Optic	Diffuser - HaloOptics® for high efficiency

Dimensional sketches p 419

Table explanation p 427				
	lamp type	L x W x H mm	plan N.	order code
Diffuser - polycarbonate / HaloOptics®	 T5 - Ø 16 mm			
	switch and electric socket 16A	4 x 20W	1950 x 655 x 385	2502
				PADE02000-420HRBE



RT5 stand equipped with integrated sockets
- webref. SRT5013F



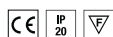
RT5 task lighting and uplight
- webref. SRT5013A



RT5 task lighting
- webref. SRT5013C



RT5 - webref. SRT5013D



RT5



Housing

Lacquered sheet steel housing with hinged optics, polycarbonate cover
Heavy steel base-plate
RAL9003-white housing with RAL7047-grey end pieces or housing and end pieces in
RAL9006-white aluminium
Variable height adjustment

Optic

Task lighting: asymmetric reflector with progressive shielding

Dimensional sketches p 419

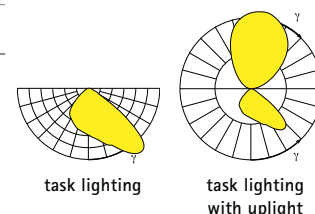
Table explanation p 427

	lamp type	L x W x H mm	plan N.	order code ¹
Desk				
Reflector - satin-anodised aluminium - asymmetric-beam distribution - task lighting: progressive longitudinal shielding				
	 T5 - Ø 16 mm			
switch	1 x 14W	585 x 151 x 81	2501	RT5806/T01
switch - manual lighting control	1 x 14W	585 x 151 x 81	2501	RT5806/T02
switch - occupancy detection	1 x 14W	585 x 151 x 81	2501	RT5806/T04
switching and regulating by infrared remote control	1 x 14W	585 x 151 x 81	2501	RT5806/T05
Floor-standing				
Reflector - satin-anodised aluminium - asymmetric-beam distribution - task lighting: progressive longitudinal shielding				
	 T5 - Ø 16 mm			
switch	1 x 14W	585 x 151 x 81	2500	RT5804/T01
switch - manual lighting control	1 x 14W	585 x 151 x 81	2500	RT5804/T02
switch - occupancy detection	1 x 14W	585 x 151 x 81	2500	RT5804/T04
switching and regulating by infrared remote control	1 x 14W	585 x 151 x 81	2500	RT5804/T05
Reflector - satin-anodised aluminium - down- and uplight - task lighting: progressive longitudinal shielding - uplight: polycarbonate				
	 T5 - Ø 16 mm			
	task uplight			
task lighting - uplight: separated switches	1 x 14W 2 x 24W	585 x 290 x 113	2500	RT5805/T01U01
task lighting - uplight: separated switches - manual lighting control	1 x 14W 2 x 24W	585 x 290 x 113	2500	RT5805/T02U02
task lighting: switch - manual lighting control	1 x 14W 2 x 24W	585 x 290 x 113	2500	RT5805/T02U03
uplight: switch - manual lighting control - ELS				
task lighting: switch - occupancy detection	1 x 14W 2 x 24W	585 x 290 x 113	2500	RT5805/T04U01
uplight: switch				
task lighting - uplight:	1 x 14W 2 x 24W	585 x 290 x 113	2500	RT5805/T05U05
switching and regulating by infrared remote control				

¹ code + X1: luminaire in RAL9003-white with RAL7047-grey / code + X2: luminaire in RAL9006-aluminium white

Options and accessories

Desk- and floor standing	coloured semi-transparent desing accent	red
		green
		blue
Floor-standing	stand equipped with integrated sockets	p 378



LIGHT LINE SYSTEMS

wide-angle distribution

extra visual comfort

T8 - Ø26 mm



E31
p 203



E32
p 203



E35
p 204



E34
p 204



E38
p 207



E39
p 207

T5 - Ø16 mm



E52
p 209



E58
p 212



webref. SE5003A3

narrow-angle
distribution

assymmetric-beam
distribution



E33
p 203



E36
p 205



E37
p 205



E53
p 210



E56
p 211





webref. SE5011B1



webref. SE5001D1



webref. SE3026G

E3 – E5

LIGHT LINE SYSTEMS

INDUSTRIAL LUMINAIRES FOR INDIVIDUAL AND IN-LINE ASSEMBLY

E3 and E5 luminaires are available with a wide range of reflectors for the most diverse visual tasks. The luminaires can be suspended by steel wires or ceiling mounted.

E3 and E5 luminaires are installation-friendly. The basic housing contains the complete electrical equipment. After mounting the housing, only the reflector and the lamp remain to be mounted, for which no tools are required.

E3 and E5 luminaires are available as individual or as versions for in-line assembly.

The individual luminaires are identical in appearance to the line sections. Both types can therefore be used together within one room.

The in-line system consists of completely finished, prewired sections. They are connected by means of coupling pieces. The sections are fitted with through wiring (5x 2.5 mm²) and plugs.

A phase selector switch in the section allows balanced loading of the three mains phases or switching of the lighting in groups. The line can also be equipped with emergency lighting.

IN-LINE SYSTEM

Line sections with complete electrical equipment for lighting

Double lamp length

ballast left

ballast left and right

ballast right

Single lamp length

Line sections with through wiring only

Double lamp length

36W E307/036-5

E307/036-7

58W E307/058-5

E307/058-7

35W, 49W, 80W E5007/035-5

E5007/035-7

Following standard options are possible

2 pole extra throughwiring for emergency unit and non-permanent emergency lighting

3 pole extra throughwiring for emergency lighting

Other line accessories

Coupling piece (number of sections per line -1), per piece E3H115

Line end piece (2 per line), per piece E3H116

Connector (1 per line), 5-pin, per piece E3H117

Connector (1 per line), 7 pole with dimming (analog or DALI), per piece

Connector for 9 pole throughwiring with dimming and emergency unit or non-permanent emergency lighting, per piece E3H118

Connector for 7 pole throughwiring with emergency unit or non-permanent emergency lighting, per piece E3H119

Connector for 8 pole throughwiring with emergency lighting, per piece E3H128

Connector for 10 pole throughwiring with dimming (analog or DALI) and emergency lighting, per piece



webref. SE3044B3



webref. SE3044A1

E3 – E5

Flexibility for future additions

Unused positions in the line can later be equipped with a plug-in add-on element (p. 153) and a reflector.

Combination with emergency lighting

- Specific line sections for emergency lighting
- Rapid mounting: emergency lighting luminaires with pre-mounted profile and flex with plug
- Emergency lighting luminaires: see emergency lighting catalogue and dimensional sketches no. 4300

Line section for emergency lighting with through wiring

(emergency lighting luminaires not included)

Single lamp length

58W - half section for non-maintained emergency lighting with 7 pole throughwiring	E309/058S1
58W - half section for emergency lighting with 10 pole throughwiring	E309/058S2
35W, 49W or 80W - half section for non-maintained emergency lighting with 7 pole throughwiring	E5009/035S1
35W, 49W or 80W - half section for emergency lighting with 10 pole throughwiring	E5009/035S2

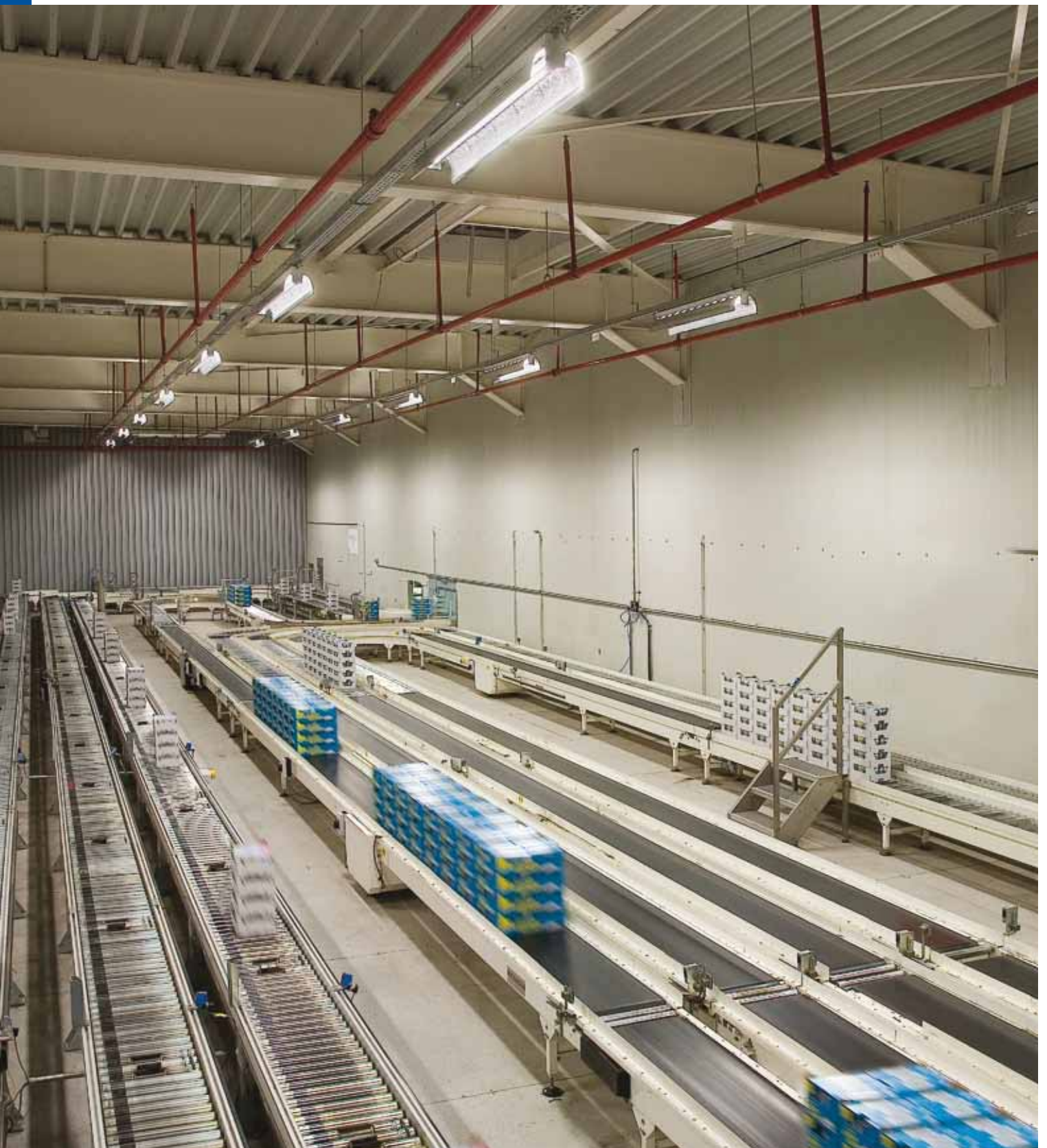
Additional through wiring for emergency lighting in line sections with lighting

Consult your ETAP-adviser.

Wiring diagrams on in-line systems, see p 382



Save up to 75% of energy
see p 236 up to 261





E32 - webref. SE3046A1



E31 - webref. SE3047A1

E3



E3



Housing

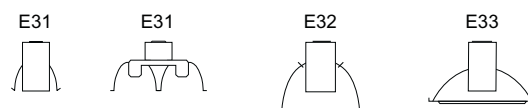
Lacquered sheet steel housing, with rapid mounting of reflectors

Optic

Reflector

- E31: compact, wide-angle
- E32: extreme wide-angle
- E33: extreme narrow-angle

Dimensional sketches p 420



individual

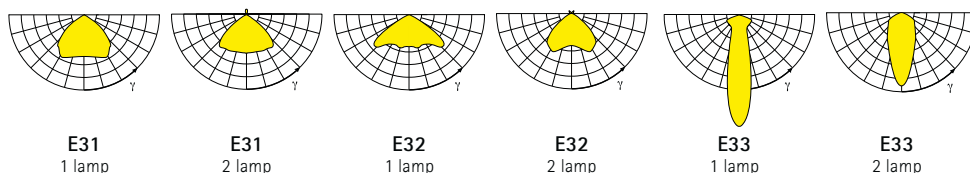
straight line mounting: through wiring (5 x 2,5 mm²) included as standard

Table explanation p 427

lamp type	L _{av} - limit cd/m ²	UGR	η %	plan N.	order code	plan N.	order code			
E31										
Reflector - hammered aluminium - parabolic										
 T8 - Ø 26 mm										
1 x 36W	-	≤ 25	90	3000	E310/136HFW	4300	E316/136HFW	E317/136HFW	E318/136HFW	E319/136HFW
1 x 58W	-	≤ 25	88	3000	E310/158HFW	4300	E316/158HFW	E317/158HFW	E318/158HFW	E319/158HFW
Reflector - hammered aluminium - parabolic										
 T8 - Ø 26 mm										
2 x 36W	-	≤ 25	93	3001	E310/236HFW	4300	E316/236HFW	E317/236HFW	E318/236HFW	E319/236HFW
2 x 58W	-	≤ 25	92	3001	E310/258HFW	4300	E316/258HFW	E317/258HFW	E318/258HFW	E319/258HFW
E32										
Reflector - hammered aluminium - parabolic - extreme wide-angle distribution										
 T8 - Ø 26 mm										
1 x 36W	-	≤ 22	93	3400	E320/136HFW	4300	E326/136HFW	E327/136HFW	E328/136HFW	E329/136HFW
1 x 58W	-	≤ 25	94	3400	E320/158HFW	4300	E326/158HFW	E327/158HFW	E328/158HFW	E329/158HFW
2 x 36W	-	≤ 25	90	3400	E320/236HFW	4300	E326/236HFW	E327/236HFW	E328/236HFW	E329/236HFW
2 x 58W	-	≤ 25	89	3400	E320/258HFW	4300	E326/258HFW	E327/258HFW	E328/258HFW	E329/258HFW
E33										
Reflector - hammered aluminium - parabolic - narrow-angle distribution										
 T8 - Ø 26 mm										
1 x 36W	-	≤ 22	91	3200	E330/136HFW	4300	E336/136HFW	E337/136HFW	E338/136HFW	E339/136HFW
1 x 58W	-	≤ 22	91	3200	E330/158HFW	4300	E336/158HFW	E337/158HFW	E338/158HFW	E339/158HFW
2 x 36W	-	≤ 22	88	3200	E330/236HFW	4300	E336/236HFW	E337/236HFW	E338/236HFW	E339/236HFW
2 x 58W	-	≤ 25	86	3200	E330/258HFW	4300	E336/258HFW	E337/258HFW	E338/258HFW	E339/258HFW



Save up to 75% of energy
see p 236 up to 261



E35 - webref. SE6046M1

E34 - webref. SE3048B1

E3



Housing Lacquered sheet steel housing, with rapid mounting of reflectors

Optic Reflector
- E34: wide-angle
- E35: extreme wide-angle

Dimensional sketches p 420



individual
straight line mounting: through wiring (5 x 2,5 mm²) included as standard

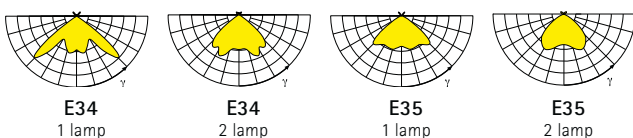
Table explanation p 427

lamp type	L _{av} - limit cd/m ²	UGR	η %	plan N.	order code	plan N.	order code
Reflector - satin-anodised aluminium - SLL baffles							
T8 - Ø 26 mm							
1 x 36W	≤ 1000 (65°)	≤ 19	86	3800	E340/136HFW	4300	E346/136HFW
1 x 58W	-	≤ 22	87	3800	E340/158HFW	4300	E346/158HFW
2 x 36W	-	≤ 19	85	3800	E340/236HFW	4300	E346/236HFW
2 x 58W	-	≤ 19	82	3800	E340/258HFW	4300	E346/258HFW

E35

Reflector - hammered aluminium - flat baffles - extreme wide-angle distribution

T8 - Ø 26 mm							
1 x 36W	-	≤ 19	82	3400	E350/136HFW	4300	E356/136HFW
1 x 58W	-	≤ 19	82	3400	E350/158HFW	4300	E356/158HFW
2 x 36W	-	≤ 22	77	3400	E350/236HFW	4300	E356/236HFW
2 x 58W	-	≤ 22	77	3400	E350/258HFW	4300	E356/258HFW





E37 - webref. SE3049N1



E36 - webref. SE3049A2

E3



E3



Housing

Lacquered sheet steel housing, with rapid mounting of reflectors
Adjustable in 5 positions: -16°, -8°, 0°, 8°, 16°

Optic

Reflector - asymmetric-beam

Dimensional sketches p 420

E36/E37



individual

straight line mounting: through wiring (5 x 2,5 mm²) included as standard

Table explanation p 427

lamp type	L _{av} - limit cd/m²	UGR	η %	plan N.	order code	plan N.	order code			
E36										
Reflector - hammered aluminium - asymmetric-beam distribution										
 T8 - Ø 26 mm										
1 x 58W	-	-	86	3600	E360/158HFW	4300	E366/158HFW	E367/158HFW	E368/158HFW	E369/158HFW
2 x 58W	-	-	79	3600	E360/258HFW	4300	E366/258HFW	E367/258HFW	E368/258HFW	E369/258HFW

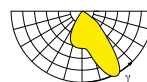
E37

Reflector - hammered aluminium - flat baffles - asymmetric beam distribution

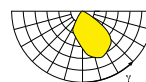
T8 - Ø 26 mm										
1 x 58W	-	-	75	3600	E370/158HFW	4300	E376/158HFW	E377/158HFW	E378/158HFW	E379/158HFW
2 x 58W	-	-	67	3600	E370/258HFW	4300	E376/258HFW	E377/258HFW	E378/258HFW	E379/258HFW



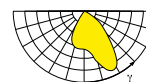
Save up to 75% of energy
see p 236 up to 261



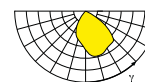
E36
1 lamp



E36
2 lamp



E37
1 lamp



E37
2 lamp



VIRGIN MEGASTORES, SAINT-DENIS - FRANCE

webref. SE3040B4



E39 - webref. SE3050A1



E38 - webref. SE3048N1

E3



E3



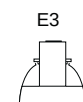
Housing

Lacquered sheet steel housing, with rapid mounting of reflectors

Optic

Reflector - wide-angle

Dimensional sketches p 420



individual

straight line mounting: through wiring (5 x 2,5 mm²) included as standard

Table explanation p 427

lamp type	L _{av.} - limit cd/m ²	UGR	η %	plan N.	order code	plan N.	order code
E38							
Reflector - satin-anodised aluminium - Isolum® baffles							
T8 - Ø 26 mm							
1 x 36W	≤ 200 (65°)	≤ 19	85	3800	E380/136HFW	4300	E386/136HFW
1 x 58W	≤ 200 (65°)	≤ 19	85	3800	E380/158HFW	4300	E386/158HFW
2 x 36W	≤ 1000 (65°)	≤ 19	80	3800	E380/236HFW	4300	E386/236HFW
2 x 58W	≤ 1000 (65°)	≤ 19	80	3800	E380/258HFW	4300	E386/258HFW

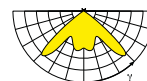
E39

Reflector - satin-anodised aluminium - Isolum® baffles

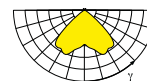
T8 - Ø 26 mm							
1 x 58W	≤ 1000 (65°)	≤ 19	75	3800	E3960/158HFW	4300	E3966/158HFW



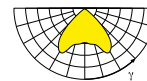
Save up to 75% of energy
see p 236 up to 261



E38
1 lamp



E38
2 lamp



E39
1 lamp





E522 - webref. SE5011E2



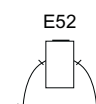
E520 - webref. SE5011A1



E5

	Housing	Lacquered sheet steel housing, with rapid mounting of reflectors
	Optic	Reflector - wide-angle

Dimensional sketches p 420



individual

straight line mounting: through wiring (5 x 2,5 mm²) included as standard

Table explanation p 427

lamp type	L _{av} - limit cd/m ²	UGR	η %	plan N.	order code	plan N.	order code	order code	order code
E52									
Reflector - hammered aluminium - parabolic									
T5 - Ø 16 mm									
1 x 35W	-	≤ 25	100	4001	E5200/135HFW	4300	E5206/135HFW	E5207/135HFW	E5208/135HFW
1 x 49W	-	≤ 25	103	4001	E5200/149HFW	4300	E5206/149HFW	E5207/149HFW	E5208/149HFW
1 x 80W	-	≤ 25	104	4001	E5200/180HFW	4300	E5206/180HFW	E5207/180HFW	E5208/180HFW
2 x 35W	-	≤ 25	99	4001	E5200/235HFW	4300	E5206/235HFW	E5207/235HFW	E5208/235HFW
2 x 49W	-	≤ 25	102	4001	E5200/249HFW	4300	E5206/249HFW	E5207/249HFW	E5208/249HFW
2 x 80W	-	≤ 28	102	4001	E5200/280HFW	4300	E5206/280HFW	E5207/280HFW	E5208/280HFW
4 x 80W	-	-	99	4001	E5200/480HFW	4300	E5206/480HFW	E5207/480HFW	E5208/480HFW
Reflector - hammered aluminium - parabolic									
T5 - Ø 16 mm									
1 x 35W	-	≤ 22	82	4001	E5220/135HFW	4300	E5226/135HFW	E5227/135HFW	E5228/135HFW
1 x 49W	-	≤ 22	84	4001	E5220/149HFW	4300	E5226/149HFW	E5227/149HFW	E5228/149HFW
1 x 80W	-	≤ 22	86	4001	E5220/180HFW	4300	E5226/180HFW	E5227/180HFW	E5228/180HFW
2 x 35W	-	≤ 22	87	4001	E5220/235HFW	4300	E5226/235HFW	E5227/235HFW	E5228/235HFW
2 x 49W	-	≤ 22	90	4001	E5220/249HFW	4300	E5226/249HFW	E5227/249HFW	E5228/249HFW
2 x 80W	-	≤ 25	92	4001	E5220/280HFW	4300	E5226/280HFW	E5227/280HFW	E5228/280HFW
4 x 80W	-	≤ 25	82	4001	E5220/480HFW	4300	E5226/480HFW	E5227/480HFW	E5228/480HFW

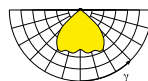
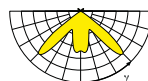
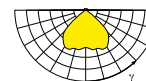
Options and accessories

air extraction openings for luminaires in dusty environments

code + T1

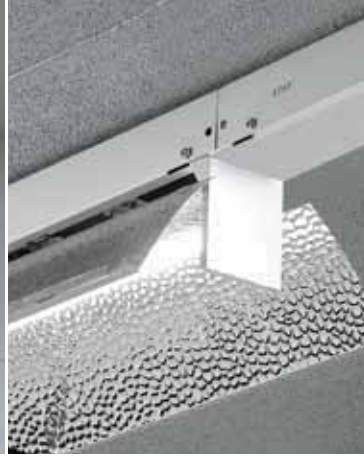


Save up to 75% of energy
see p 236 up to 261

E520
1 lampE520
2 lampE520
4 lampE522
1 lampE522
2 lampE522
4 lamp



E53 - webref. SE5012B1



E53 - webref. SE5012A2

E5

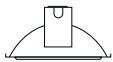


Housing Lacquered sheet steel housing, with rapid mounting of reflectors

Optic Reflector - narrow-angle

Dimensional sketches p 420

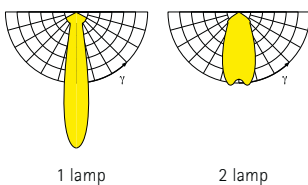
E53



*individual
straight line mounting: through wiring (5 x 2,5 mm²) included as standard*

Table explanation p 427

lamp type	L _{av.} - limit cd/-m ²	UGR	η %	plan N.	order code	plan N.	order code
E53							
Reflector - hammered aluminium - parabolic							
T5 - Ø 16 mm							
1 x 35W	-	≤ 22	102	4101	E5300/135HFW	4300	E5306/135HFW
1 x 49W	-	≤ 22	105	4101	E5300/149HFW	4300	E5306/149HFW
1 x 80W	-	≤ 25	105	4101	E5300/180HFW	4300	E5306/180HFW
2 x 35W	-	≤ 22	98	4101	E5300/235HFW	4300	E5306/235HFW
2 x 49W	-	≤ 25	101	4101	E5300/249HFW	4300	E5306/249HFW
2 x 80W	-	≤ 25	108	4101	E5300/280HFW	4300	E5306/280HFW
							E5307/135HFW
							E5307/149HFW
							E5307/180HFW
							E5307/235HFW
							E5307/249HFW
							E5307/280HFW
							E5308/135HFW
							E5308/149HFW
							E5308/180HFW
							E5308/235HFW
							E5308/249HFW
							E5308/280HFW
							E5309/135HFW
							E5309/149HFW
							E5309/180HFW
							E5309/235HFW
							E5309/249HFW
							E5309/280HFW



1 lamp

2 lamp



E562 - webref. SE5013E2



E560 - webref. SE5013A1

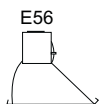
E5



E5

	Housing	Lacquered sheet steel housing, with rapid mounting of reflectors Adjustable in 5 positions: -16°, -8°, 0°, 80; 16°
	Optic	Reflector - asymmetric beam

Dimensional sketches p 420



individual
straight line mounting: through wiring (5 x 2,5 mm²) included as standard

Table explanation p 427

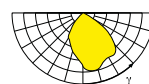
lamp type	L _{av} - limit cd/m ²	UGR	η %	plan N.	order code	plan N.	order code	order code	order code
E56									
Reflector - hammered aluminium - asymmetric beam distribution									
T5 - Ø 16 mm									
1 x 35W	-	-	103	4201	E5600/135HFW	4300	E5606/135HFW	E5607/135HFW	E5608/135HFW
1 x 49W	-	-	104	4201	E5600/149HFW	4300	E5606/149HFW	E5607/149HFW	E5608/149HFW
1 x 80W	-	-	108	4201	E5600/180HFW	4201	E5606/180HFW	E5607/180HFW	E5608/180HFW
2 x 35W	-	-	101	4201	E5600/235HFW	4300	E5606/235HFW	E5607/235HFW	E5608/235HFW
2 x 49W	-	-	105	4201	E5600/249HFW	4300	E5606/249HFW	E5607/249HFW	E5608/249HFW
2 x 80W	-	-	-	4201	E5600/280HFW	4201	E5606/280HFW	E5607/280HFW	E5608/280HFW
Reflector - hammered aluminium - flat baffles - asymmetric beam distribution									
T5 - Ø 16 mm									
1 x 35W	-	-	88	4201	E5620/135HFW	4300	E5626/135HFW	E5627/135HFW	E5628/135HFW
1 x 49W	-	-	89	4201	E5620/149HFW	4300	E5626/149HFW	E5627/149HFW	E5628/149HFW
1 x 80W	-	-	93	4201	E5620/180HFW	4300	E5626/180HFW	E5627/180HFW	E5628/180HFW
2 x 35W	-	-	87	4201	E5620/235HFW	4300	E5626/235HFW	E5627/235HFW	E5628/235HFW
2 x 49W	-	-	89	4201	E5620/249HFW	4300	E5626/249HFW	E5627/249HFW	E5628/249HFW
2 x 80W	-	-	93	4201	E5620/280HFW	4300	E5626/280HFW	E5627/280HFW	E5628/280HFW



Save up to 75% of energy
see p 236 up to 261



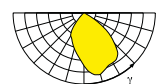
E560
1 lamp



E560
2 lamp



E562
1 lamp

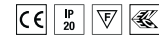


E562
2 lamp



E58 - webref. SE5014B1

E5



Housing Lacquered sheet steel housing, with rapid mounting of reflectors

Optic Reflector -wide-angle

Dimensional sketches p 420

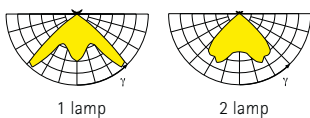
E58

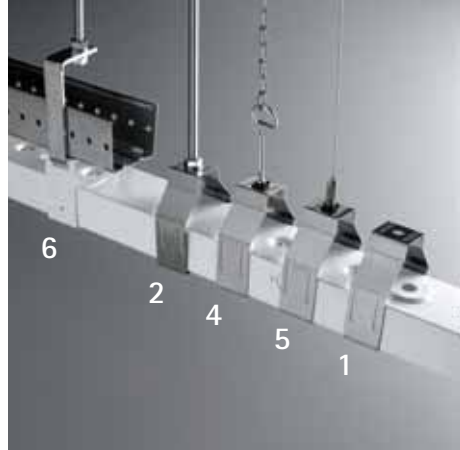


individual
straight line mounting: through wiring (5 x 2,5 mm²) included as standard

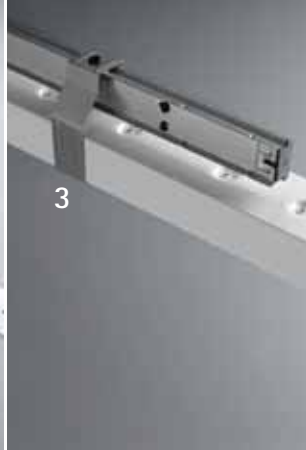
Table explanation p 427

lamp type	L _{av} - limit cd/m ²	UGR	η %	plan N.	order code	plan N.	order code
Reflector - satin-anodised aluminium - parabolic							
T5 - Ø 16 mm							
1 x 35W	≤ 1000 (65°)	≤ 19	100	4301	E5860/135HFW	4300	E5866/135HFW
1 x 49W	-	≤ 22	101	4301	E5860/149HFW	4300	E5866/149HFW
1 x 80W	-	≤ 22	105	4301	E5860/180HFW	4300	E5866/180HFW
2 x 35W	-	≤ 19	99	4301	E5860/235HFW	4300	E5866/235HFW
2 x 49W	-	≤ 22	102	4301	E5860/249HFW	4300	E5866/249HFW
2 x 80W	-	≤ 22	106	4301	E5860/280HFW	4300	E5866/280HFW

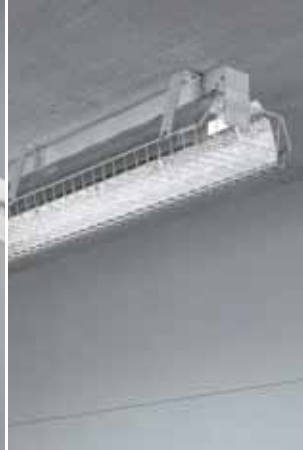




Mounting brackets - webref. SE5015E1



webref. SE6051E2



Protective grille - webref. SE6046D1

Plug-in add-on element
- webref. SE305111

Suspension and accessories

Mounting brackets (2 per individual luminaire or number of line-sections + 1)

For ceiling mounting, per piece	see photo 1	E3H120
For threaded rod (also for Telemecanique Canalis KBA), per piece	see photo 2	E3H121
For Telemecanique Canalis KLE, per piece	see photo 3	E3H122
For chain, per piece	see photo 4	E3H123
Roll of chain, per roll of 30 m		E3H124
For steel wire, bracket with quick-adjustment system, ceiling attachment and 3 m steel wire, per set	see photo 5	E3H125
For cable channel on top, mounting bracket with accessories, per set (not suitable for E36 and E37)	see photo 6	E3H103
For ELS with protective grille		E3H127

Protective grilles

For in-line mounting with discontinuous reflectors or individual mounting

For E31 (1 lamp), E32, E34 of E35		
36W		E3H20/036
58W		E3H20/058
For E31 (2 lamp)		
36W		E3H20/236
58W		E3H20/258
For E52 or E58	35W, 49W or 80W	E5H20/035
For E53	35W, 49W or 80W	E5H30/035
For in-line mounting with continuous reflectors		
For E31 (1 lamp), E32, E34 or E35		
36W		E3H21/036
36W (end grille with 1 flange)		E3H22/036
58W		E3H21/058
58W (end grille with 1 flange)		E3H22/058
For E52 or E58	35W, 49W of 80W	E5H21/035
	35W, 49W of 80W (eindbeschermkorf met 1 opstaande kant)	E5H22/035

Reflector end piece

For E32, E35	E3H105
--------------	--------

Reflector alignment piece

For E34	E3H107
For E36 and E37	E3H109
For E38	E3H108

Plug-in add-on element (to provide free places in the line with electrical equipment; excluding reflector)

1 x 36 W	E3B20/136HFW
2 x 36W	E3B20/236HFW
1 x 58W	E3B20/158HFW
2 x 58W	E3B20/258HFW

Conversion sets

From E32 to E35, 36W	E3R50/036-1
From E32 to E35, 58W	E3R50/058-1
From E36 to E37, 58W	E3R70/058-1
From E520 to E522	E5R22/035-1
From E560 to E562	E5R62/035-1

HIGH PROTECTION FACTOR LUMINAIRES





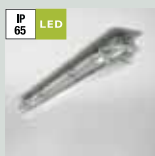
IP
65
IK
07

B1
p 216



IP
65

E1
p 217



IP 65 LED

E1
p 223



IP
65

E2
p 224



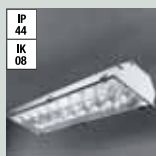
IP
54
IK
08

E4
p 225



IP
65
IK
08

E6
p 227



IP
44
IK
08

E9
p 229

HIGH PROTECTION FACTOR LUMINAIRES



B1 - webref. SB1011B1

B1



	Housing	Housing of lacquered corrosion-free aluminium Clear, tempered glass cover Polyurethane seal Quick release latches of stainless steel Continuously variable mounting bracket for wall or ceiling mounting
	Optic	Wide-angle
	Application	Outdoor lighting

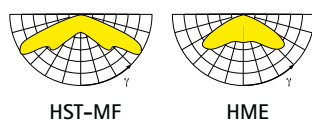
Dimensional sketches p 424

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code RAL7037-grey	option
Reflector - satin-anodised aluminium - extreme wide-angle distribution						
HST-MF						
1 x 150W	-	79	583 x 380 x 151	5000	B10/150-11	-
1 x 70W	-	78	583 x 380 x 151	5000	B10/70-11	-
Reflector - satin-anodised aluminium - wide-angle distribution						
HME						
1 x 125W	-	81	583 x 380 x 151	5000	B11/125-21	-

Options and accessories

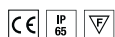
bracket for pole mounting	B1H1	p 379
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E11 - webref. SE1014B1

E1



Housing	Housing of fibreglass-reinforced polyester Acrylate or polycarbonate cover Polyurethane seal Quick release latches and mounting brackets of stainless steel (not for ATEX-version)
Optic	Reflector - gull-wing or parabolic
Application	In aggressive environments In gas environments (ATEX)

Dimensional sketches p 424

Table explanation p 427

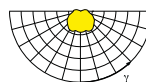
	lamp type	UGR	η %	L x W x H mm	plan N.	order code	option
Reflector - satin-anodised aluminium - acrylic - gull-wing							
	T8 - Ø 26 mm						
	1 x 36W	≤ 25	83	1292 x 148 x 117	5100	E11/136HFW	-
	1 x 58W	-	83	1592 x 148 x 117	5100	E11/158HFW	-
	2 x 36W	-	69	1292 x 148 x 117	5100	E11/236HFW	-
	2 x 58W	≤ 28	67	1592 x 148 x 117	5100	E11/258H	-
-30 °C	2 x 58W	≤ 28	67	1592 x 148 x 117	5100	E11/258S4 ¹	-
Reflector - satin-anodised aluminium - acrylic - gull-wing							
	T5 - Ø 16 mm						
	1 x 35W	≤ 25	110	1592 x 148 x 117	5100	E11/135HFW	-
	1 x 49W	≤ 25	111	1592 x 148 x 117	5100	E11/149HFW	-
	1 x 80W	≤ 28	97	1592 x 148 x 117	5100	E11/180HFW	-
	2 x 35W	≤ 28	97	1592 x 148 x 117	5100	E11/235HFW	-

¹ cold store version

Save up to 75% of energy
see p 236 up to 261



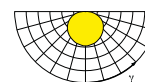
gull wing
1x T8 - Ø 26 mm



gull wing
2x T8 - Ø 26 mm



gull wing
1x T5 - Ø 16 mm



gull wing
2x T5 - Ø 16 mm

HIGH PROTECTION
FACTOR LUMINAIRES





E12 - webref. SE1014A1



E12 ATEX gas - webref. SE1008A2

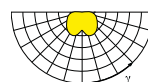
E1

Table explanation p 427

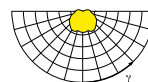
lamp type		UGR	η %	L x W x H mm	plan N.	order code	 option	
Reflector - satin-anodised aluminium - polycarbonate - gull-wing								
								
		T8 - Ø 26 mm						
		1 x 18W	≤ 28	79	682 x 148 x 117	5100	E12/118HFW	-
		1 x 36W	25	79	1292 x 148 x 117	5100	E12/136HFW	-
		1 x 58W	28	79	1592 x 148 x 117	5100	E12/158HFW	-
		2 x 18W	≤ 28	66	682 x 148 x 117	5100	E12/218HFW	-
		2 x 36W	28	66	1292 x 148 x 117	5100	E12/236HFW	-
		2 x 58W	-	64	1592 x 148 x 117	5100	E12/258H	-
	- 30 °C	2 x 58W	28	64	1592 x 148 x 117	5100	E12/258S4 ³	-
Reflector - satin-anodised aluminium - polycarbonate - gull-wing								
								
		T5 - Ø 16 mm						
		1 x 35W	≤ 25	105	1592 x 148 x 117	5100	E12/135HFW	-
		1 x 49W	-	107	1592 x 148 x 117	5100	E12/149HFW	-
		1 x 80W	≤ 28	93	1592 x 148 x 117	5100	E12/180HFW	-
		2 x 35W	≤ 28	94	1592 x 148 x 117	5100	E12/235HFW	-
Reflector - satin-anodised aluminium - polycarbonate - gull-wing								
								
		T8 - Ø 26 mm						
	II 2 D Ex tD A21 IP65 T125°C	1 x 36W	≤ 25	79	1292 x 148 x 117	5100	E12/136HFWV200	-
		1 x 36W	≤ 25	79	1292 x 148 x 117	5100	E12/136HFW3V200 ¹	-
		1 x 36W	≤ 25	79	1292 x 148 x 117	5100	E12/136HFW5V200 ²	-
		1 x 58W	≤ 28	79	1592 x 148 x 117	5100	E12/158HFWV200	-
		1 x 58W	≤ 28	79	1592 x 148 x 117	5100	E12/158HFW3V200 ¹	-
		1 x 58W	≤ 28	79	1592 x 148 x 117	5100	E12/158HFW5V200 ²	-
		2 x 58W	≤ 28	64	1592 x 148 x 117	5100	E12/258HV200	-
	II 3 G Ex nA II T4 (gas zone 2)	1 x 36W	≤ 25	79	1292 x 148 x 117	5101	E12/136HV280	-
		1 x 36W	≤ 25	79	1292 x 148 x 117	5101	E12/136HFWV280	-
		1 x 36W	≤ 25	79	1292 x 148 x 117	5101	E12/136H3V280	-
		1 x 36W	≤ 25	79	1292 x 148 x 117	5101	E12/136HFW3V280 ¹	-
		1 x 36W	≤ 25	79	1292 x 148 x 117	5101	E12/136H5V280	-
		1 x 36W	≤ 25	79	1292 x 148 x 117	5101	E12/136HFW5V280 ²	-
		1 x 58W	≤ 28	79	1592 x 148 x 117	5101	E12/158HV280	-
		1 x 58W	≤ 28	79	1592 x 148 x 117	5101	E12/158HFWV280	-
		1 x 58W	≤ 28	79	1592 x 148 x 117	5101	E12/158H3V280 ¹	-
		1 x 58W	≤ 28	79	1592 x 148 x 117	5101	E12/158HFW3V280 ¹	-
		1 x 58W	≤ 28	79	1592 x 148 x 117	5101	E12/158H5V280 ²	-
		1 x 58W	≤ 28	79	1592 x 148 x 117	5101	E12/158HFW5V280 ²	-
		2 x 36W	≤ 25	66	1292 x 148 x 117	5101	E12/236HV280	-
		2 x 36W	≤ 25	66	1292 x 148 x 117	5101	E12/236HFWV280	-
		2 x 36W	≤ 25	66	1292 x 148 x 117	5101	E12/236H3V280 ¹	-
		2 x 36W	≤ 25	66	1292 x 148 x 117	5101	E12/236HFW3V280 ¹	-
		2 x 36W	≤ 25	66	1292 x 148 x 117	5101	E12/236H5V280 ²	-
		2 x 36W	≤ 25	66	1292 x 148 x 117	5101	E12/236HFW5V280 ²	-
		2 x 58W	≤ 28	64	1592 x 148 x 117	5101	E12/258HV280	-
		2 x 58W	≤ 28	64	1592 x 148 x 117	5101	E12/258H3V280 ¹	-
		2 x 58W	≤ 28	64	1592 x 148 x 117	5101	E12/258H5V280 ²	-

¹ with 3 core through wiring² with 5 core through wiring³ cold store version

Save up to 75% of energy
see p 236 up to 261



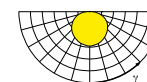
gull wing
1x T8 - Ø 26 mm



gull wing
2x T8 - Ø 26 mm



gull wing
1x T5 - Ø 16 mm



gull wing
2x T5 - Ø 16 mm

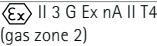
HIGH PROTECTION FACTOR LUMINAIRES

E 12 ATEX - webref. SE1016B1

webref. SE1016C1

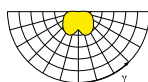
E1

Table explanation p 427

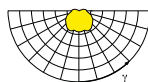
		lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Reflector - satin-anodised aluminium - polycarbonate - gull-wing								
		T5 - Ø 16 mm						
	1 x 35W	≤ 25	105	1592 x 148 x 117	5100	E12/135HFWV200	-	
	1 x 35W	≤ 25	105	1592 x 148 x 117	5100	E12/135HFW3V200 ¹	-	
	1 x 35W	≤ 25	105	1592 x 148 x 117	5100	E12/135HFW5V200 ²	-	
	1 x 49W	≤ 25	107	1592 x 148 x 117	5100	E12/149HFWV200	-	
	1 x 49W	≤ 25	107	1592 x 148 x 117	5100	E12/149HFW3V200 ¹	-	
	1 x 49W	≤ 25	107	1592 x 148 x 117	5100	E12/149HFW5V200 ²	-	
	2 x 35W	≤ 28	94	1592 x 148 x 117	5100	E12/235HFWV200	-	
	2 x 35W	≤ 28	94	1592 x 148 x 117	5100	E12/235HFW3V200 ¹	-	
	2 x 35W	≤ 28	94	1592 x 148 x 117	5100	E12/235HFW5V200 ²	-	
	1 x 28W	≤ 25	105	1292 x 148 x 117	5101	E12/128HFWV280	-	
	1 x 28W	≤ 25	105	1292 x 148 x 117	5101	E12/128HFW3V280 ¹	-	
	1 x 28W	≤ 25	105	1292 x 148 x 117	5101	E12/128HFW5V280 ²	-	
	1 x 35W	≤ 25	105	1592 x 148 x 117	5101	E12/135HFWV280	-	
	1 x 35W	≤ 25	105	1592 x 148 x 117	5101	E12/135HFW3V280 ¹	-	
	1 x 35W	≤ 25	105	1592 x 148 x 117	5101	E12/135HFW5V280 ²	-	
	1 x 49W	≤ 25	107	1592 x 148 x 117	5101	E12/149HFWV280	-	
	1 x 49W	≤ 25	107	1592 x 148 x 117	5101	E12/149HFW3V280 ¹	-	
	1 x 49W	≤ 25	107	1592 x 148 x 117	5101	E12/149HFW5V280 ²	-	
	2 x 28W	≤ 28	94	1292 x 148 x 117	5101	E12/228HFWV280	-	
	2 x 28W	≤ 25	94	1292 x 148 x 117	5101	E12/228HFW3V280 ¹	-	
	2 x 28W	≤ 28	94	1292 x 148 x 117	5101	E12/228HFW5V280 ²	-	
	2 x 35W	≤ 28	94	1592 x 148 x 117	5101	E12/235HFWV280	-	
	2 x 35W	≤ 28	94	1592 x 148 x 117	5101	E12/235HFW3V280 ¹	-	
	2 x 35W	≤ 28	94	1592 x 148 x 117	5101	E12/235HFW5V280 ²	-	

¹ with 3 core through wiring

² with 5 core through wiring



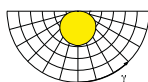
gull wing
1x T8 - Ø 26 mm



gull wing
2x T8 - Ø 26 mm



gull wing
1x T5 - Ø 16 mm



gull wing
2x T5 - Ø 16 mm



E13 - webref. SE1014C1

E1

Table explanation p 427

	lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
	Reflector - satin-anodised aluminium - acrylic - parabolic						
	 T8 - Ø 26 mm						
	1 x 36W	≤ 22	75	1292 x 148 x 117	5100	E13/136HFW	-
	1 x 58W	≤ 25	71	1592 x 148 x 117	5100	E13/158HFW	-
	Reflector - satin-anodised aluminium - acrylic - parabolic						
	 T5 - Ø 16 mm						
	1 x 35W	≤ 25	101	1592 x 148 x 117	5100	E13/135HFW	-
	1 x 49W	≤ 25	107	1592 x 148 x 117	5100	E13/149HFW	-
	1 x 80W	≤ 25	92	1592 x 148 x 117	5100	E13/180HFW	-
	Reflector - satin-anodised aluminium - polycarbonate - parabolic						
	 T8 - Ø 26 mm						
	1 x 36W	≤ 22	71	1292 x 148 x 117	5100	E14/136HFW	-
	1 x 58W	≤ 25	67	1592 x 148 x 117	5100	E14/158HFW	-
	Reflector - satin-anodised aluminium - polycarbonate - parabolic						
	 T5 - Ø 16 mm						
	1 x 35W	≤ 25	97	1592 x 148 x 117	5100	E14/135HFW	-
	1 x 49W	≤ 25	101	1592 x 148 x 117	5100	E14/149HFW	-
	1 x 80W	≤ 25	87	1592 x 148 x 117	5100	E14/180HFW	-
	2 x 35W	≤ 25	82	1592 x 148 x 117	5100	E14/235HFW	-



Save up to 75% of energy
see p 236 up to 261



parabolic
1x T8 - Ø 26 mm



parabolic
1x T5 - Ø 16 mm



parabolic
2x T5 - Ø 16 mm

HIGH PROTECTION
FACTOR LUMINAIRES





LED

E14 LED - webref. SE1010A1

E1



Housing	Housing of fibreglass-reinforced polyester Acrylate or polycarbonate cover Polyurethane seal Quick release latches and mounting brackets of stainless steel (not for ATEX-version)
Optic	Reflector - gull-wing
Application	In cooling and freezing environments (t > -40°C)

Dimensional sketches p 424

Table explanation p 427

lamp type	UGR	lumen luminaire	L x W x H mm	plan N.	order code	option
Reflector - satin-anodised aluminium - polycarbonate - parabolic						
HIGH POWER						
57,6 W - cold white	25	4323	1592 x 148 x 117	5102	E14/LEDC58S	-

Options and accessories

quick-mounting version with RST20i3 Wieland-plug and pre-mounted lamp	p 379
single female Wieland plug	p 379
female Wieland plug for looping through	p 379



E14 LED - webref. SE1010B1



Save up to 75% of energy
see p 236 up to 261



E14/LED

HIGH PROTECTION FACTOR LUMINAIRES

E2 - webref. SE2014A1

E2 - webref. SE2014B1

E2

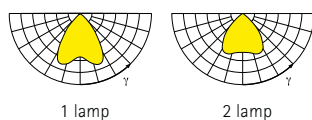


	Housing	Extruded aluminium housing with rubber end pieces Polycarbonate lamp holders 2 aluminium mounting plates slide into the profile
	Optic	Reflector - high reflection aluminium

Dimensional sketches p 424

Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code	option
Reflector - hammered aluminium						
 T8 - Ø 26 mm						
1 x 58W	≤ 22	84	1570 x 234 x 212	5200	E221/158HFW	-
2 x 58W	≤ 25	80	1570 x 234 x 212	5200	E221/258HFW	-



1 lamp

2 lamp

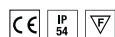


E4 - webref. SE4015A1



E4 - webref. SE4015B1

E4



E4

	Housing	Housing of lacquered sheet steel Clear tempered glass cover Polyurethane seal Quick release latches of inox Mounting brackets of galvanised steel
	Optic	Reflector - high reflection aluminium

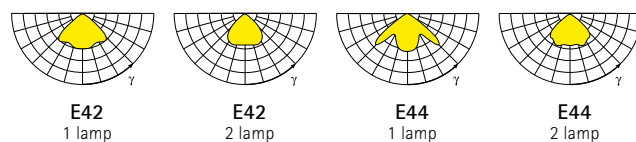
Dimensional sketches p 424

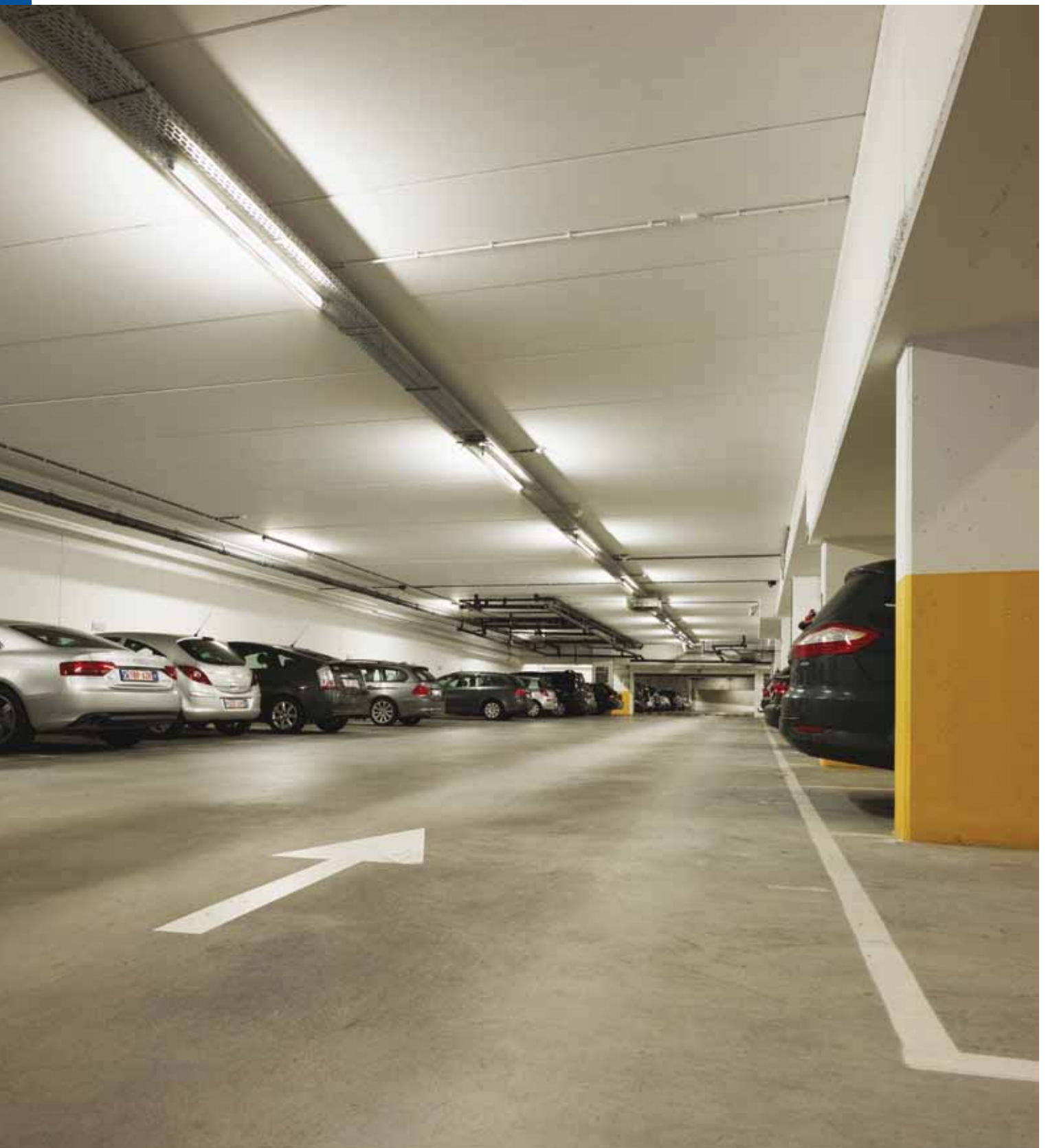
Table explanation p 427

lamp type	UGR	η %	L x W x H mm	plan N.	order code	option
Reflector - hammered aluminium - glass - parabolic						
T8 - Ø 26 mm						
1 x 58W	≤ 22	79	1630 x 278 x 226	5300	E42/158HFW	-
2 x 58W	≤ 22	68	1630 x 278 x 226	5300	E42/258HFW	-
Reflector - satin-anodised aluminium - glass - SLL baffles						
T8 - Ø 26 mm						
1 x 58W	≤ 19	71	1630 x 278 x 226	5300	E44/158HFW	-
2 x 58W	≤ 19	62	1630 x 278 x 226	5300	E44/258HFW	-



Save up to 75% of energy
see p 236 up to 261







webref. SE6001A1



E6

	Housing	Polycarbonate housing and protective cover Silicone seal Quick release latches and mounting brackets of stainless steel
	Optic	Reflector - high reflection aluminium
	Application	In car parks, basements, technical or storage rooms

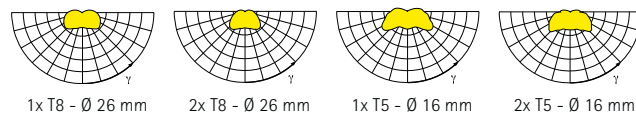
Dimensional sketches p 424

Table explanation p 427

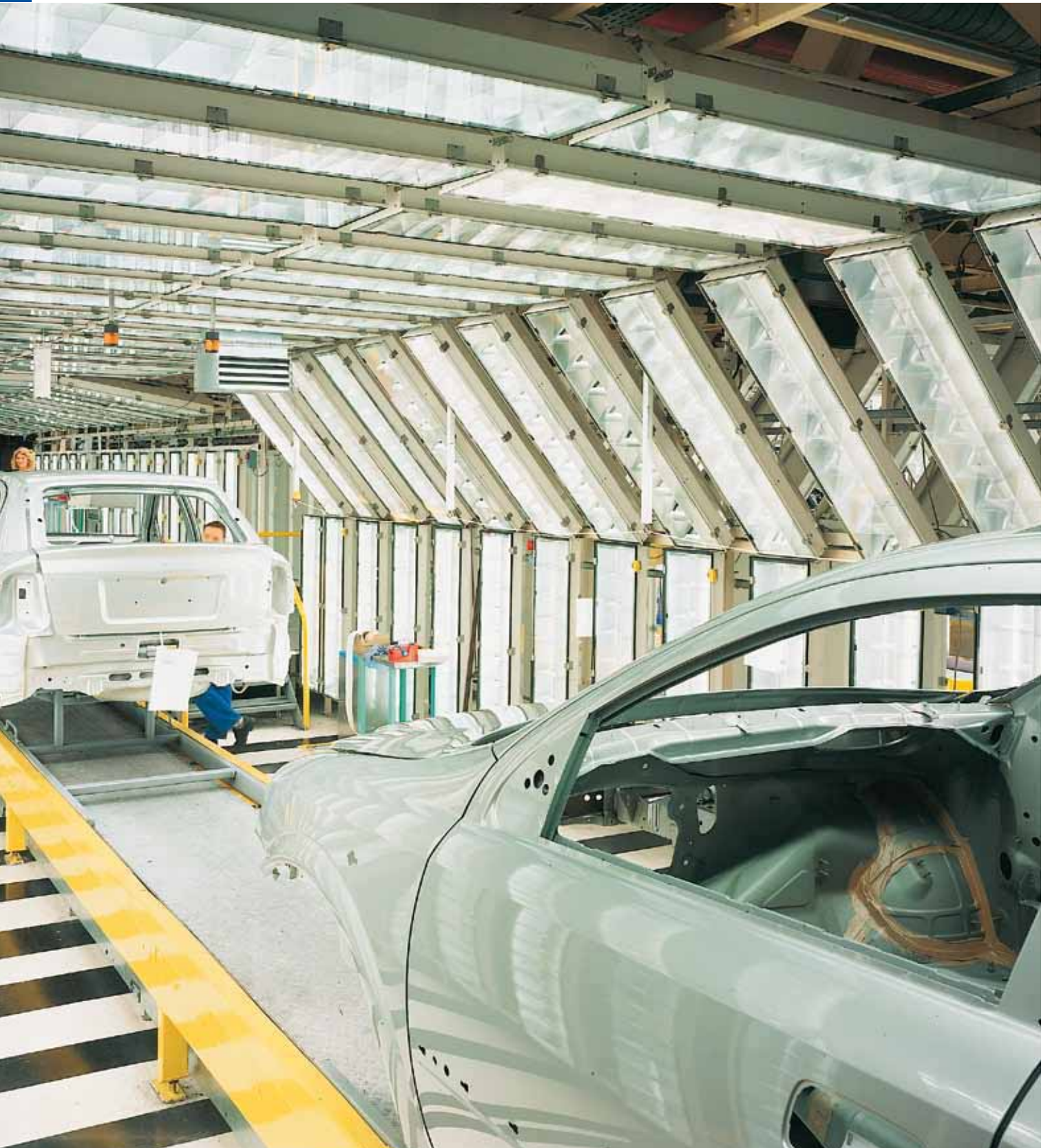
lamp type	UGR	η %	L x W x H mm	plan N.	order code	 option
Reflector - satin-anodised aluminium - gull wing						
 T8 - Ø 26 mm						
1 x 36W	≤ 28	86	1270 x 86 x 90	5400	E62/136HFW	•
1 x 58W	≤ 28	86	1570 x 86 x 90	5400	E62/158HFW	•
2 x 36W	≤ 28	74	1270 x 136 x 90	5400	E62/236HFW	•
2 x 58W	≤ 28	74	1570 x 136 x 90	5400	E62/258HFW	-
Reflector - satin-anodised aluminium - gull wing						
 T5 - Ø 16 mm						
1 x 28W	≤ 28	97	1270 x 86 x 90	5400	E62/128HFW	•
1 x 35W	-	97	1570 x 86 x 90	5400	E62/135HFW	•
1 x 49W	-	102	1570 x 86 x 90	5400	E62/149HFW	•
1 x 54W	-	97	1270 x 86 x 90	5400	E62/154HFW	-
1 x 80W	-	103	1570 x 86 x 90	5400	E62/180HFW	-
2 x 28W	≤ 28	91	1270 x 136 x 90	5400	E62/228HFW	•
2 x 35W	≤ 28	84	1570 x 136 x 90	5400	E62/235HFW	•
2 x 49W	≤ 28	72	1570 x 136 x 90	5400	E62/249HFW	-



Save up to 75% of energy
see p 236 up to 261



HIGH PROTECTION
FACTOR LUMINAIRES



webref. SE9001A



E9 - webref. SE9016A1



E9 attached to working table - webref. SE9017A1



E9

	Housing	Lacquered sheet steel housing with hinged optics Clear glass or acrylic cover
	Optic	Reflector - high reflection aluminium The special construction prevents glare and provides maximum contrast on the work plane

Dimensional sketches p 424

Table explanation p 427

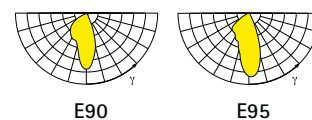
lamp type	UGR	η %	L x W x H mm	plan N.	order code	option
Reflector - satin-anodised aluminium - polycarbonate T8 - Ø 26 mm 2 x 58W	-	59	1578 x 402 x 203	5500	E901/258HFW	-
Reflector - satin-anodised aluminium - acrylic T8 - Ø 26 mm 2 x 18W	-	62	640 x 344 x 161	5501	E950/218HFW	-

Options and accessories

set for mounting luminaires on Ø34 mm round tube (2 clamps)	E9H1	p 379
set of mounting tube and 2x2 clamps for attachment from the luminaire on a working table	E9H2/018	p 379



Save up to 75% of energy
see p 236 up to 261



MEDICAL SYSTEMS





R9
p 233



R9
p 233



MEDILUX®
p 235





webref. SR9002A2



webref. SR9001A3

R9



R9

	Housing	Extruded aluminium, lacquered
	Optic	Diffuser

Dimensional sketches p 425

Surface mounted luminaire - R9

Table explanation p 427

lamp type		L x W x H mm	plan N.	order code	 option
read	uplight				
Medilux®					
Diffuser - acrylic - uplight: fixed					
					
T5 - Ø 16 mm					
1 x 21W	2 x 39W	1005 x 255 x 125	6000	R900/239HFWX1	-
Diffuser - acrylic - uplight: directional					
					
T5 - Ø 16 mm					
1 x 21W	2 x 39W	1095 x 255 x 125	6001	R901/239HFWX1	-

Surface mounted luminaire on channel - R9

Table explanation p 427

lamp type		L x W x H mm	plan N.	order code	 option
read	uplight				
Medilux®					
Diffuser - acrylic - uplight: fixed					
					
T5 - Ø 16 mm					
1 x 21W	2 x 39W	1005 x 220 x 125	6002	R902/239HFWX1	-
Diffuser - acrylic - uplight: directional					
					
T5 - Ø 16 mm					
1 x 21W	2 x 39W	1095 x 220 x 125	6003	R903/239HFWX1	-

Options and accessories

version with nightlight

order code + T0





webref. SR9003A3

R9

MEDICAL TECHNOLOGY IN MODERN CASING

Hospitals are increasingly requesting to keep lighting apart from medical technology. Consequently, the equipment housing is more compact and looks less "technical". The room has a more friendly appearance and the person staying there feels more at home.

A particularity of the Medilux® system is that the front panel for the housing may be made to measure. You define the dimensions, material and design of the front panel yourself, for example in the facility's house style. Up to three connections for medical gasses may be integrated and the electrical connections (sockets, equipotential connections, data communication and paging system) are discreetly concealed in the sides of the housing.

The housing is completely custom made, in accordance with the components you require.

HORIZONTAL SYSTEMS

The more conventional horizontal design of medical care systems is also often present, both in treatment rooms and in intensive care units.

One channel contains medical gasses and another contains electrical connections. Horizontal Medilux® systems can have up to three channels.

Here too ETAP always provides custom made work. You specify what equipment and components you need and we integrate them into a specially adapted solution. A Medilux® luminaire can always be fastened to the uppermost channel. The channel is available in all RAL colours and can be up to six metres long, so it is suitable for both one- and two-person rooms.

webref. SR9002A1



LIGHT CONTROLS



daylight dependent



ELS
p 239

movement dependent

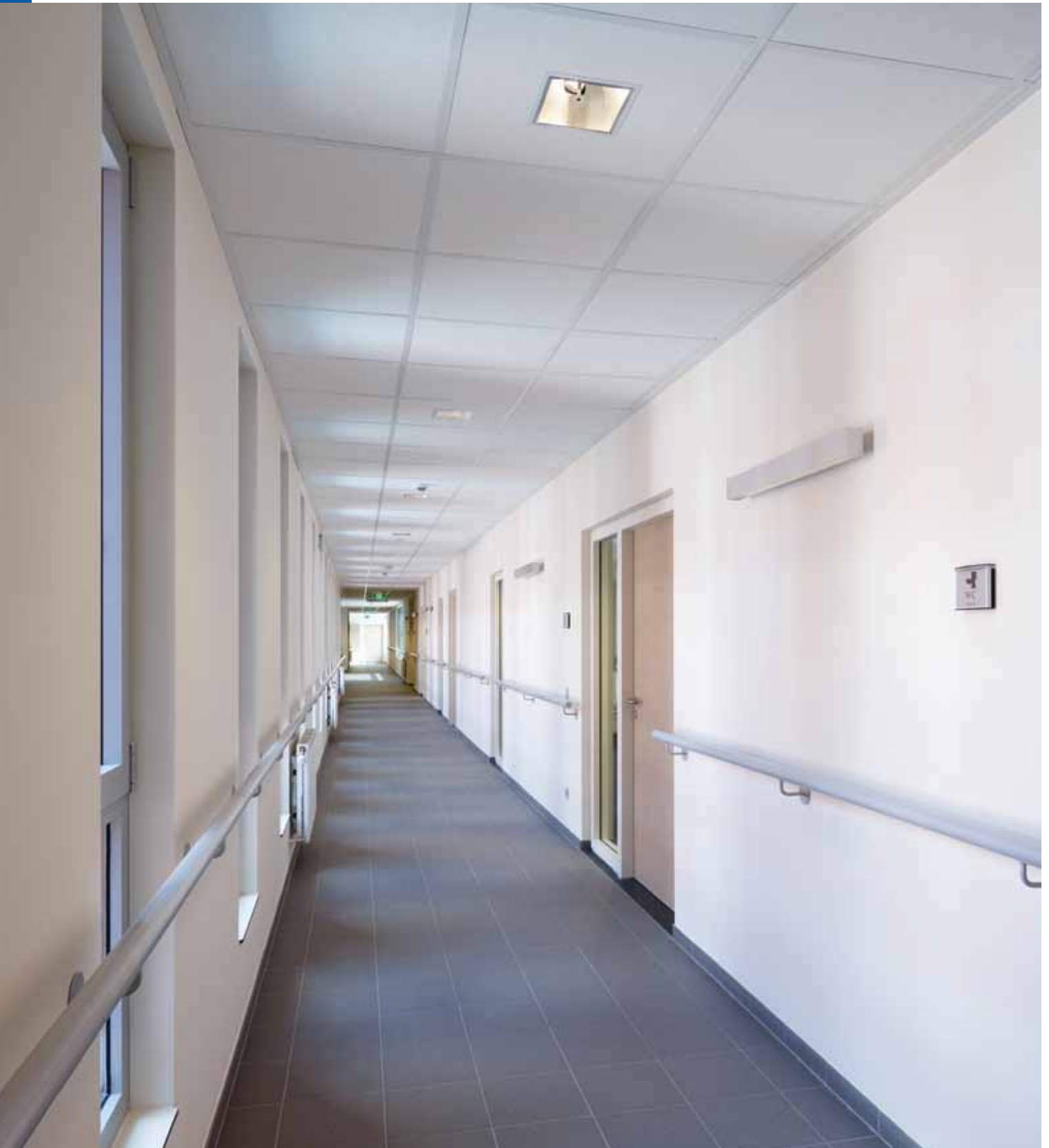


MDS
p 240

multisensor



EMD
p 241



ELS



ELS - webref. SC006B1

DAYLIGHT DEPENDENT

Regulates and shuts down the artificial light output in accordance with the level of natural light

Energy-saving

Controls the light level individually

Imperceptible automatic dimming

Easy installation, clipped onto the lamp

ELS 1-10 V

The ELS sensor is integrated into the luminaire and controls a standard dimming electronic ballast with analogue control of 1-10V.

As an option, ELS can be combined with external dimming of 1-10V.

DALI-ELS

Luminaires with DALI ballast can also be equipped with an ELS light sensor. Optionally it can switch off the artificial light, after it has been at the dimmed level for a while.

INSTALLATION

The installation time for luminaires with or without ELS is the same, because no additional connections have to be made.

MEASURING FIELD

Minimum measuring field on the floor: $\varnothing 1,7$ m for a mounting height of 2,8 m

SETTINGS

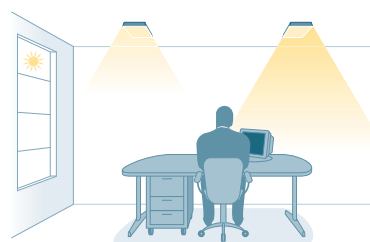
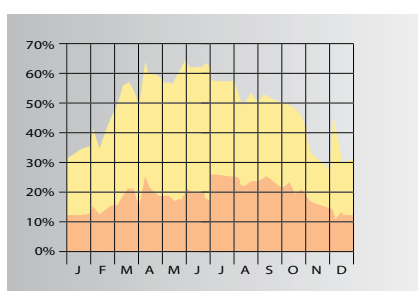
ELS: the light sensor's sensitivity is adjustable (approx. 15% per revolution). For every project, ELS is equipped with the appropriate settings in the factory.

Standard settings: 500 lx for 20% reflection factor of the measuring field. Other settings for 1-10V ELS on request.

ORDER

Consult your ETAP advisor for other factory settings.

The sensor can be built into the housing on request.





MDS movement sensor for applications of normal mounting height – webref. SC036A1

MDS

MOVEMENT DEPENDENT

INTEGRATED OCCUPANCY DETECTION

You can also have the luminaire switched on or off depending on whether any people are in the room. We will integrate a small PIR sensor and a small regulator in the luminaire to switch the lamp and ballast on or off.

A SENSOR FOR EACH APPLICATION

MDS switches the lamp on or off depending on whether people are in the room and is therefore advisable for smaller spaces.

MDS is available with different types of sensors:

- A small sensor for applications of normal mounting height (up to max. 3 m)

- A bigger sensor with a greater detection area, for spaces with a high mounting height

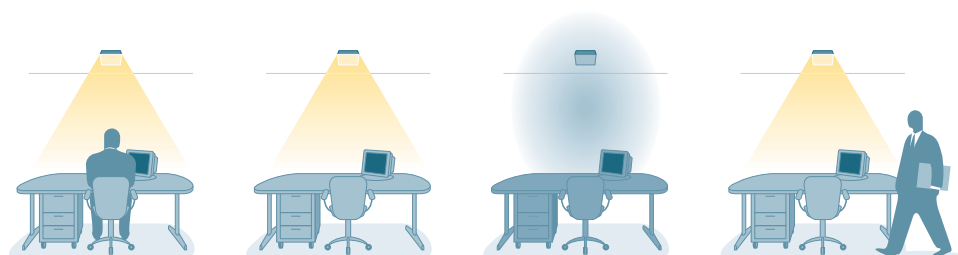
- A sensor with an elliptical detection area, typical for warehouses

Every application (offices, hallways, warehouses,...) demands a specific light control strategy. This is possible per luminaire or you can integrate a master-slave mode. Sensors can be linked, so you can switch luminaires in group.

MDS is delivered for every project with the correct presettings.

ORDER

Consult your ETAP adviser.





EMD multisensor - webref. SC022B1

EMD

MULTIDETECTION

COMPREHENSIVE LIGHT CONTROL

ETAP multi-sensors allow you to control the light depending on factors other than occupancy. EMD does not only have an integrated PIR sensor for movement detection, but also a daylight sensor and an IR-recipient. The daylight sensor controls the light level depending on the available daylight. And thanks to the IR-recipient you can easily operate the luminaire using an IR transmitter.

LIGHT CONTROLS FOR EVERY SITUATION

EMD sensors not only switch the luminaire on or off, they can also dim it. That is why they are the logical choice for applications where movement detection can be combined with a daylight linking system. The ETAP multi-sensors are also very suitable for movement detection in landscape or group offices, possibly in combination with a daylight linking system. In these applications people usually prefer that the light is not switched off but only dimmed in empty rooms. The office is still bright enough for the users sitting elsewhere. The lights are only switched off when the last person has left the office.

EXTENSIVE RANGE AND POSSIBILITIES

EMD controls luminaires with DALI-ballasts. The possibilities of master-slave mode or linking in group considerably broaden the applicability of EMD. Your ETAP adviser will gladly help you work out the best solution for every situation.

USER COMFORT

The remote control offers maximum user comfort, such as the possibility of scene settings and individual preferences.

Options and accessories

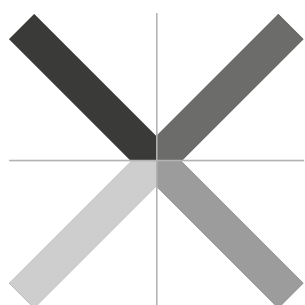
remote control transmitter

ECT010





EXCELLUM



CONTENTS EXCELLUM



ELM

249



CONTROL-IT™

257



Dynamic light

261





EXCELLUM, ENERGY SAVING AND FLEXIBILITY

ADVANCED LIGHT CONTROL SYSTEMS

Excellum offers lighting control systems that are compatible with every kind of lighting, irrespective of type or brand. The product range includes systems for entire buildings or individual rooms, systems for maximum energy savings and dynamic lighting systems. All our solutions offer you maximum flexibility to ensure your system is able to keep track of your needs in the future.

A COMPREHENSIVE SERVICE, TO MAKE IT WORK

Contemporary lighting control systems offer many possibilities in terms of functionality and flexibility and therefore require a well thought-out configuration. If necessary, Excellum offers turnkey solutions thanks to an extensive offer of services throughout the life cycle of your project, from specification and configuration to installation and maintenance.



ADDRESSABLE LIGHT CONTROL SYSTEM FOR LIGHT CONTROL AND ENERGY MANAGEMENT

ELM is a comprehensive design for integrated light control and energy management system. The instant energy savings result in a short cost recovery time and improvement of your personal comfort. The addressable dimming and switching function, combined with the user-friendly software allows ELM to react dynamically to the constantly changing light situation in a building. Irrespective of time and location, ELM always provides the right amount of light. By integrating six different energy control strategies in one system, applying them simultaneously, ELM eliminates practically all energy waste caused by lighting.

EASY TO IMPLEMENT

ELM communicates with every luminaire individually. The configuration in areas is software based and therefore independent from the lighting circuits. It makes the design simple, fast, future-based and flexible. All network components are looped with ready-made wiring with a plug connection. Because no addressing or paper work is required during the installation, the connection of a luminaire or sensor is a matter of 'plug & play'.

EASY TO MANAGE

The central control software allows the building manager to control every luminaire in a building from his PC or via the internet. The user-friendly ground plan software allows simple navigation or system configuration.

EASY TO ADJUST

Luminaires and sensors are individually controlled. Reconfigurations after changes in a work space or refurbishing of the building are done entirely via ELM software. The lighting luminaires in the ground plan are dragged to another space by a 'mouse click'. Changing the wiring or moving hardware has become a thing of the past.



MAXIMIZE ENERGY SAVINGS WITH 6 STRATEGIES

1 . Intelligent time control

In parts of the building where occupancy detection is not recommended, time controlled switching or dimming can be used. This is also possible for small areas such as one room or even an individual luminaire. The intelligent time control can be perfectly combined with manual control, so they can be switched off automatically at the end of each working day.

2 . Daylight linking system

Daylight sensors can automatically adapt the lighting levels taking into account the available daylight.

3 . Task tuning

Energy waste caused by overlighting is avoided by setting standard lighting levels based on specific jobs or applications. The flexibility of ELM ensures that future changes to the system are simple and flexible.

4 . Occupancy control

Movement dependent sensors can automatically switch the lighting on or off or dim it.

5 . Individual control

Users are able to personalise the lighting if they have control over the lighting at their workspace. They can do this the classical way, with switches, but it can also be done easily with PCS, personal control software.

6 . Restriction of peak capacity

By continuously monitoring the power in a building and automatically controlling the lighting via dimming or switching, peak loads can be reduced. This can also be done selectively of course, e.g. based on the importance of an area.





webref. SA021G2

ELM means no more nasty surprises. Most features are already provided in the software's basic licence. No upgrades need to be paid or dormant features activated if you want to use them in the future. Thanks to the intuitive graphics, changes can be implemented by the software and no installation activities are necessary which results in extra cost cuts.

	STANDARD FEATURES	
	Included in base license	optional
Completely integrated and simultaneous control strategies giving maximum energy savings and optimal comfort		
- Calendar controlled lighting	x	
- Movement sensors	x	
- Task tuning and maintenance control	x	
- User control with scenesetting and comfort dimming	x	
- Daylight dependant dimming or switching	x	
- Avoid peak loads	x	
Choice from a wealth of user control possibilities:		
- Pushbuttons (free choice of design by PB-interfaces)	x	
- Wireless (RF) battery free pushbuttons/transmitters	x	
- Personal Control Software (PCS) with scenesetting	x	
- Control via IP-phones	x	
- Control via smartphones and PDA	x	
Easy installation and validation:		
- GreenBus™ prefabricated structured wiring (click and go)	x	
- DALI offering single cable 'mains + control' wiring	x	
- No pre-addressing needed, no on-site registration of ID's allowing easy logistics and fast install	x	
Professional project management and services:		
- Fast budget quote and energy savings estimation	x	
- Direct sales contact, following your project from A-Z	x	
- Every project is managed by a project manager	x	
- Detailed documentation, administrator training	x	
- Customized training		x
Flexible system configuration and maintenance:		
- Central monitoring and configuration, with no additional license costs, regardless the number of clients	x	
- State-of-the-art graphical user-interface	x	
- Floorplan based as well as logical tree structure	x	
Integration with other systems:		
- Fire alarm interface (lights on at alarm)	x	
- AV-interface	x	
- supporting BACnet protocol		x
- Tridium Niagara ^{AX} -integration		x
Modular maintenance contracts to suit your specific needs:		
- Hotline and remote assistance		x
- On site system tuning		x
- Software maintenance and support		x
- Extended hardware support		x
Extended features for the facility manager:		
- Detailed energy analysis	x	
- Open system supporting luminaries, sensors and pushbuttons from different manufactures	x	
- Easy integration with Building Management Systems and exchange of information		x

ELM

SYSTEM STRUCTURE



ELM

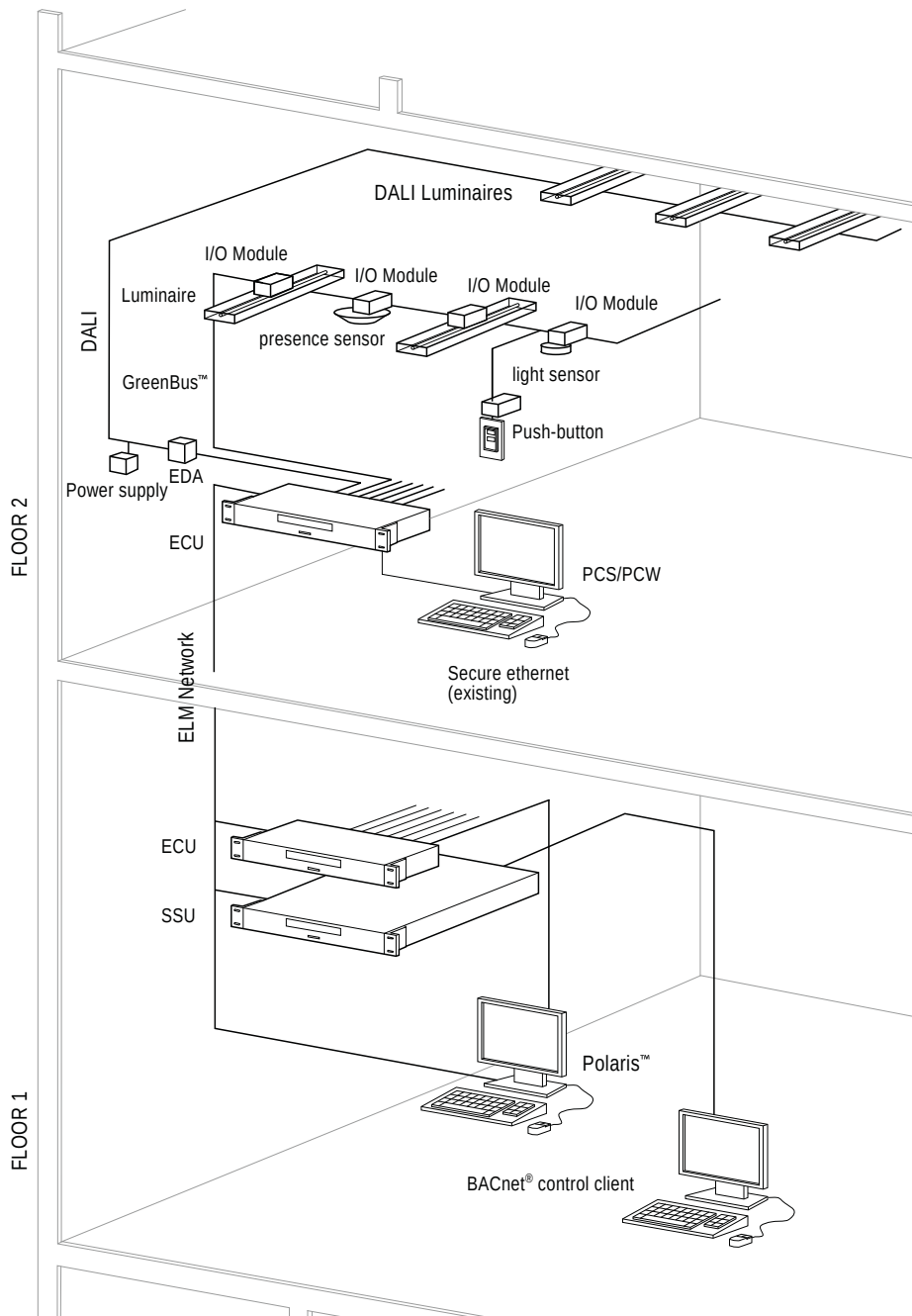
webref. SR400412

DALI

DALI (Digital Addressable Lighting Interface) is a standard protocol for the lighting industry. DALI provides simplified communication and installation. Every DALI line can monitor up to 64 luminaires, which remain individually addressable. Correct communication with the network is possible thanks to the DALI ballast.

GREENBUS™

Excellum's GreenBus™ communication technology is a bus system specifically designed for monitoring. It allows luminaires to be individually monitored and it integrates additional devices, such as presence detectors, light sensors, etc. in an entirely programmable light monitoring system. GreenBus™ provides low-voltage for all devices on the network which means external voltage supplies for sensors etc. are no longer necessary.





webref: SC016A

Central control components

SSU

The System Server Unit (SSU) contains the system's central database. The SSU also logs all data regarding the realised energy savings. The SSU is also necessary for the web server and other interfaces. One SSU per site is necessary.

SSU (System Server Unit)	C2C01
--------------------------	-------



ECU

The Energy Control Unit (ECU) is the ELM system's exchange. All nodes (sensors, actors, DALI devices, ...) are connected to this. Per building component (e.g. per storey) an ECU is installed which typically manages 450 nodes.

ECU (Energie Controle Unit) incl. SW-bundle	C2C00
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DALI GATEWAY

DALI gateways are connected directly to the ECU and allow DALI sensors and actors to be used with ELM. Several gateways can be connected to one ECU.

Dali Gateway RS232/Dali	C2C02
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ETHERNET SWITCH

The ELM network uses the standard Ethernet protocol. Excellum selected a high-quality switch with the ideal configurability.

Ethernet Switch with 24 RJ45 gateways	C2C04-26
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Inputs

INPUT MODULE

Input modules allow sensors and operational elements to be integrated in ELM such as push-buttons, movement detectors, light sensors, etc. Input modules are available for GreenBus™ and DALI.

Sensor I/O - 9p terminal block in / 2 x RJ45 (24V) uit	C2N10
I/O - Mini input unit 4x T - DALI	C2N28D2





RVT, Mol - Belgium - webref. SC035A1



PUSH-BUTTONS

Thanks to the flexible software you can use push-buttons for manual switching or dimming but also to select scenes. Versions with 2, 4 or 6 keys, some with transparent text field and optionally with LED feedback offer a push-button for every application. Push-buttons are connected to an input module.

Push-button panel 2 buttons	C2RP0
Push-button panel 4 buttons	C2RP1
Push-button panel 6 buttons	C2RP2



SENSORS GREENBUS™

The information collected by sensors enables ELM to work out the optimal comfort and maximum energy saving. Excellum has a range of sensors for light measurement and movement detection in recessed and surface-mounted models and with different technologies such as PIR, Ultrason or Dual-Technology. GreenBus™ sensors are connected to an Input Module.

Daylight sensor - surface mounted	C2RL2
Presence sensor 360° PIR - recessed mounted - 40 m²	C2RM0
Presence sensor 360° PIR - surface mounted - 40 m²	C2RM1
Presence sensor 360° PIR + US - surface mounted - 200 m²	C2RM2
Presence sensor 90° PIR - surface mounted, hall - 15 m²	C2RM3
Presence sensor 360° US - surface mounted - 200m²	C2RM4
Multisensor BM 360° PIR + LS - recessed mounted - 40m²	C2RM5
Wall sensor - surface mounted - 30m	C2RM6



SENSORS DALI

DALI-sensors which detect light and movement are available for recessed and surface-mounted models and for luminaire integration. They are connected directly to the DALI line.

Presence/daylight sensor 360° PIR - luminaire- 25m² - DALI	C2RM1D2
Presence/daylight sensor 360° PIR - recessed mounted - 25m² - DALI	C2RM2D2
Presence/daylight sensor 360° PIR - surface mounted - 25m² - DALI	C2RM4D2



webref. SC033B1

Outputs

OUTPUT MODULES

Output modules are connected to the GreenBus™ and switch and/or dim the lighting. The dimming exit is 1-10V sinking conform to EN60929. The modules can be integrated in a luminaire.

I/O - 2 x RJ45 in / relay and dim (1 - 10V) uit	C2N00
I/O - 2 x RJ45 in / 2 x relay out	C2N01



Configuration software

POLARIS™

Polaris™ software allows the lighting to be configured and managed based on a modern, floor plan-based graphic user interface. The Polaris™ software licence is included in the ECU price and there is no limit on the number of clients you want to install.



Personal control software

PCS / PCW

The Personal Control Software (PCS) allows users to operate the assigned lighting on their own PC.

Depending on the settings the luminaires can be switched individually or in group or dimmed and scenes can be selected and changed. A web version (PCW) is also available that does not require any installation on the user PC and allows suitable smartphones or PDAs to operate the lighting.



Integration BMS systems

AV-INTERFACE / BACnet / NIAGARA^{AX}

ELM can be easily integrated in building management systems (BMS). An AV interface is standard for simple integration with e.g. Crestron or AMX. A BACnet server is also available and ELM can be integrated in Niagara^{AX} (Tridium) based systems.





Accessories

GreenBus™ CABLE / GreenBus™ TESTER

The GreenBus™ cable is a communication cable which supplies power to the sensors and communicates with the ECU. Prefabricated CAT3 or CAT5 cables are preferable. To allow the installer to validate the installation, a user-friendly GreenBus™ tester (GBDT) is available.

Greenbus™ cable with 2 RJ45 plug	C2Axxx*
Greenbus™ tester	C2C05

*Contact Excellum for available lengths

ENERGY READER

The energy reader allows real-time data of the energy use (of the lighting or the entire building) to be monitored and peak use to be restricted by the ECU's intelligent priority peak demand management.

Energy reader with Modbus over TCP/IP	C2C03
---------------------------------------	-------



DALI PS / DALI TESTER

Every DALI line needs to have its own specific DALI-power supply (DALI PS). With a simple push button and a preconfigured input module (DALI tester), the efficient operation of a DALI line can be tested.

Power supply DALI line - DIN - 250mA	C2S01D1
Power supply DALI line - DIN - 200mA	C2S02D2
I/O - Mini input unit 4x T - DALI	C2N28D2

POWER PACK

To switch or dim groups of luminaires, power packs are available.

These power packs can resist high switching peak currents of the EBs by zero-crossing detection and strengthen the 1-10W signal.

Power pack switch 1150VA	C2S03
Power pack switch 1150VA and dim 1-10V	C2S04



NIKE, HILVERSUM - THE NETHERLANDS

webref. SR3004F

Control-it™ is a simple local lighting control system to control the lighting luminaires using sensors, push-buttons and control units. It is ideal for rooms where you want to customise the lighting to changing 'local' situations.

INSTALLATION

ETAP delivers the CONTROL-it™ system completely prepared and finished with all sensors and accessories. Installation is very quick and simple.

ETAP luminaires can be fitted with a Wieland GST18 plug and bus or can be equipped with flex and plug.

ETAP control units have plug connections for:

- Mains voltage and single-phase through wiring (Wieland GST).
- 4 parallel connected exits (Wieland GST) per control-unit.
- Sensors, dimmers or push-buttons (RJ12 and screw connections).

The control units automatically detect the connected sensors and adjust their function.

Maximum configuration control unit

Outputs	Max. load	
Switching power	5 A / 1150 VA	All types of load
Control output 1-10V ECC002	25 mA	Max. 150 ballasts or 50 light bulb dimmers
Available for sensors	9 mA / 5 V DC	
	50 mA / 12 V DC	
Mains voltage	16 A	

Inputs	Max. number	Power used	Max. cable length
Sensors			
IR receiver remote control	3x	3 mA / 5 V DC	30 m
Movement sensor	5x	10 mA / 12 V DC	30 m
Light sensor	1x	10 mA / 12 V DC	30 m
Manual controls			
Potentiometer	1x		30 m
Push-button	unlimited		125 m
Push-button interface	6x	5 mA / 12 V DC	30 m
Sensor entrance looping			
To 1 or 2 control units			125 m
To 3 or 4 control units			100 m
To max. 5 control units			85 m

ORDER

Together with your ETAP adviser you determine the various requirements (daylight dependent control, ELS, occupancy detection, remote control, etc.). Based on this information ETAP works out the best solution and presents a proposal with a detailed component list.

After consultation and confirmation the CONTROL-it™ system is completely pre-configured.



Control-unit - webref. SC027A2

Components

CONTROL UNITS

The control units allow the connection of sensors for light and movement and manual and automatic switching. The units switch and/or dim (1-10V) the luminaires. Different versions are available: only switching, switching and dimming and a version with double dimming exit.

Switching output	ECC001-3
Switching and dim output	ECC002-3
Switching and double dim output (programmable)	ECC003-3

IR RECEIVER

Suitable for mounting through thin ceiling

IR receiver	ECR007
-------------	--------



WALL TRANSMITTER

Suitable for mounting on wall

Transmitter wall mounting	ECT004
---------------------------	--------



MANUAL TRANSMITTER

This transmitter can be used remotely and offers 4 scene buttons and a switch-off button. The transmitter is delivered with a wall mounting set..

Manual transmitter	ECT005
--------------------	--------



PUSH-BUTTON CONTROL

Push-buttons ECB003 (2 commands) or ECB004 (4 commands) can be connected to the control units directly, or via a push-button interface ECB100.

Push-button interface	ECB100
Push-button control (2 commands)	ECB003
Push-button control (4 commands)	ECB004



POTENTIOMETER

When connected directly to the control units, the potentiometers (ECB010, ECB011) over-rule all other dimming signals (of sensors, scenes,...)

Recessed mounting	ECB010
Surface mounting	ECB011



SENSORS

The sensors can be connected to the control units directly.

Movement sensor ceiling mounted	ECR001
Movement sensor wall mounted corridor	ECR002
Movement sensor, remote control receiver and light sensor	ECR006





webref. SC0148

ACCESSORIES FOR SENSORS

The standard Control-it™ accessories make your system Plug & Play and simplify the installation.

Sensor wires (ECA002x) and extension cables (ECA003x) are clicked together with T-pieces (ECA001). A special connection (ECA004x) is able to link several control units for central push-button functions.

The push-button flexes (ECA005x) have a connector one side and colour encoding on the cores allowing you to easily determine the function of the push-button by connecting the right colour combinations.

	T-piece 1 x plug / 3 x bus	ECA001
	Sensor cable 1 metre 2 x plug	ECA002/100
	Sensor cable 5 metre 2 x plug	ECA002/500
	Sensor extension cable 5 metres / 1x plug / 1 x bus	ECA003/500
	Sensor extension cable 20 metres / 1 x plug / 1 x bus	ECA003/201
	Flex for multiple control units on a push-button interface	ECA004/500
	10 pole flex for push-button interface (5 metres)	ECA005/500-10
	10 pole flex for push-button interface (20 metres)	ECA005/201-10

ACCESSORIES FOR 230 V CONNECTIONS

The standard Control-it™ accessories make your system Plug & Play and simplify the installation.

Connectors (ECS001x) and extension cables (ECS002x and ECS003x) can be clicked together with T-pieces and junctions boxes (ECS10x-x).

A 3-polar connection plug (ECS004-3) allows you to connect the first control unit to an existing power line.

	2 metre flex 3 x 1,5 mm² with CEE7 mains plug and GST18 bus	ECS001/200-3
	3 metre extension cable 3 x 1,5 mm² with GST18 plug and GST18 bus	ECS002/300-3
	3 metre flex 5 s 1,5 mm² with GST18 plug and GST18 bus (blue)	ECS003/300-5
	3 pole connector (for the first control unit from the distribution box)	ECS004-3
	T-piece 3 pole 1 x in / 2 x out	ECS101-3
	3 pole junction box 1 x in / 3 x out	ECS102-3
	3 pole junction box 1 x in / 5 x out	ECS103-3
	T-piece 5 pole 1 x in / 2 x out (blue)	ECS104-5



UCL, BRUSSELS - BELGIUM

webref. SC032A0

DYNAMIC LIGHT

BUILDING BLOCKS FOR DYNAMIC LIGHTING SYSTEMS

Dynamic light offers variation of colour, intensity and light distribution.

We can distinguish:

Stimulating light:	Support of the natural biological clock of people who receive little or no daylight at their workplace
Medical applications:	Custom-made light scenarios for medical applications, developed by the customer and medical experts.
Ambient applications:	Custom-made light scenarios allowing e.g. colour dynamics to be introduced into a room.

LIGHT CONTROL AND SCENARIOS

The automatic light control adapts the light level and light colour during the working day. For stimulating light in the office, Excellum provides a preprogrammed scenario. Other scenarios can be developed by the user. If desired, Excellum can assist in configuring your system.

INSTALLATION

The luminaires must be connected to the mains voltage and the DALI line. Excellum can offer assistance when starting up the system. That comes complete with all accessories and CD with software (except the PC, if applicable)

POWER

There are two options to control dynamic light luminaires: with a PC or a Touchscreen controller. You also need a DALI C2S02D2 power supply and special luminaires (consult the product pages in question on our website for more information about luminaires suitable for dynamic light).

Control using a PC (ECC010):

Order code ECC010 contains a serial PC to a DALI interface and a CD with the driver.

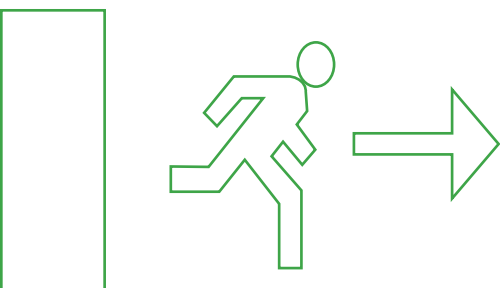
Control using a Touchpanel (ECC020):

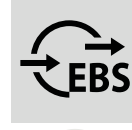
Order code ECC 020 contains the Touchpanel and a CD with the necessary software. For the touchpanel itself you need an extra C2CS02 power supply (in addition to the power supply for the DALI-line).





EMERGENCY LIGHTING



					K1 Surface, suspended and recessed luminaries	269
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webref. SK9024D4

ETAP EMERGENCY LIGHTING, DESIGN AND RELIABILITY

RELIABILITY AND EFFICIENCY

Reliability is the most important requirement for emergency lighting. ETAP guarantees this reliability thanks to advanced electronic design, intensive quality control, local and central test and control systems, and – of course – more than 40 years of experience. We also apply advanced photometry to increase the efficiency of the emergency lighting installation and to create the best conditions for evacuation of the building in case of emergency.

INTEGRATION INTO ARCHITECTURE

Emergency lighting is often viewed as intrusive. ETAP pays close attention to design and a flawless finish, therefore we join forces with external designers and architects. As a result, ETAP emergency luminaires can be integrated in a harmonic way into the building architecture.

THE EMERGENCY LIGHTING SPECIALIST

ETAP has a specialised team of electronics engineers and designers, self-certification laboratories, in-house manufacturing and test labs. We offer a complete product range: self-contained luminaires, solutions with central power supply, systems for control and management of emergency lighting installations. We assist our customers in developing a plan for emergency lighting that meets the national standards and regulations.





K1

SURFACE, SUSPENDED AND RECESSED LUMINAIRES

→ p 271 |
lighting



→ p 274 |
single sided signage



→ p 276 |
double sided signage

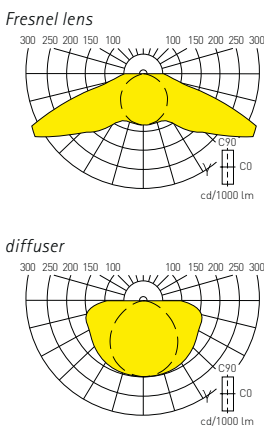


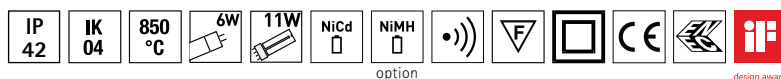


K1

SURFACE, SUSPENDED AND RECESSED
LUMINAIRES FOR LIGHTING



Application	Anti-panic lighting Escape route lighting	
Material	Base: impact-resistant polycarbonate Diffuser: impact-resistant polycarbonate	
Optics	K11: wide-angle distribution Fresnel lens K13: diffuser with or without opal foil	
Dimensions	L x W x H in mm: 304 x 155 x 73 Plan N.: 7000	
Photometrics	K11: ceiling mounting: 13,3 m (1 lux, mounting height 2,8 m, 200 lm) wall mounting vertical: 7,8 m (1 lux, mounting height 2 m, 200 lm) K13: ceiling mounting: 10,8 m (1 lux, mounting height 2,8 m, 200 lm) wall mounting vertical: 9,2 m (1 lux, mounting height 2,8 m, 200 lm) K13 with opal foil: ceiling mounting: 10,1 m (1 lux, mounting height 2,8 m, 170 lm) wall mounting vertical: 8,6 m (1 lux, mounting height 2 m, 170 lm)	



option

design award
winner

Dimensional sketches p 450



K1 with Fresnel lens - webref. SK1010G8



K1 diffuser recessed - webref. SK1017A1

K1 LIGHTING

LIGHTING

Self contained luminaires

optics	special application	mounting	NM/M	lamp type	lumen emergency	order code	
self test							
Fresnel lens	-	surface/recessed	NM	T5 6W	200	K111/6N	K112/6N
	-	surface/recessed	NM	TC-S 11W	450	K111/11N2	K112/11N2
	-	surface/recessed	M	T5 6W	200	K111/6P	K112/6P
	inhibiting mode	surface/recessed	NM	T5 6W	200	-	K172/6N
opal diffuser	inhibiting mode	surface/recessed	M	T5 6W	200	-	K172/6P
	-	surface/recessed	NM	T5 6W	200	K131/6N	K132/6N
	-	surface/recessed	M	T5 6W	200	K131/6P	K132/6P
ETAP Safety Manager: self test EST+							
Fresnel lens	-	surface/recessed	NM	T5 6W	200	K113/6N	K114/6N
	-	surface/recessed	NM	TC-S 11W	450	K113/11N2	K114/11N2
	-	surface/recessed	M	T5 6W	200	K113/6P	K114/6P
	inhibiting mode	surface/recessed	NM	T5 6W	200	K173/6N	K174/6N
opal diffuser	inhibiting mode	surface/recessed	M	T5 6W	200	K173/6P	K174/6P
	-	surface/recessed	NM	T5 6W	200	K133/6N	K134/6N
	-	surface/recessed	M	T5 6W	200	K133/6P	K134/6P

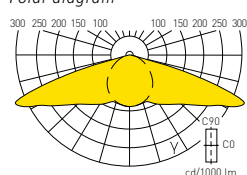
Centrally supplied luminaires

optics	special application	mounting	emergency supply voltage	lamp type	lumen		order code
					AC	DC	
Fresnel lens	-	surface/recessed	230V AC/DC	T5 6W	250	190	K11/6-230
	-	surface/recessed	230V AC/DC	TC-S 11W	520	430	K11/11-230
opal diffuser	-	surface/recessed	230V AC/DC	T5 6W	80	60	K13/6-230

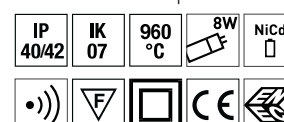
K8 for maintained lighting with increased flux

optics	special application	mounting	NM/M	lamp type	lumen emergency	order code
self test						
Fresnel lens	-	surface/recessed	M	T5 8W	430	K812/8P2
ETAP Safety Manager: self test EST+						
Fresnel lens	-	surface/recessed	M	T5 8W	430	K813/8P2 K814/8P2

Polar diagram



Base: glassfibre-reinforced polyester
Plan N.: 7650 on p 452



Options and accessories → p 435 | Spacing tables → p 438 | Wiring diagrams → p 448 | Dimensional sketches → p 450



K1 suspension - webref. SK1017E1



K1 with decorative end pieces - webref. SK1010A7



K1 parallel wall mounting - webref. SK1010F1

Accessories

decorative end pieces	- white aluminium (RAL9006)	K1H6-1
	- white (RAL9003)	K1H6-2
opal foil for diffuser		K1ED0
protective grille		K1H7

Mounting accessories

recessed mounting set (not for use with decorative end pieces)	K1H1
optional template for mounting set	K1H8
accessory for parallel wall mounting	K1H3
accessory for right angle wall mounting	K1H2
suspension set	K1H4-50

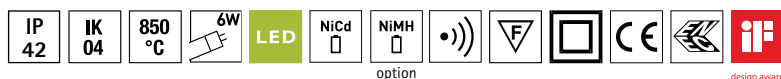
K1

SURFACE MOUNTED LUMINAIRES FOR SINGLE SIDED SIGNAGE



Application	Single sided illuminated safety signs (wall)
Material	Base: impact-resistant polycarbonate Diffuser: impact-resistant polycarbonate
Optics	Non-reflective cover
Dimensions	L x W x H in mm: 304 x 155 x 73 Plan N.: 7000
Safety sign	Foil, viewing distance: 26 m Perfect evenly distributed illumination, conforms to EN 1838 Diffuser to assist with escape route lighting and 1 lux zones (not for LED luminaires)

Dimensional sketches p 450



option

design award
winner



K1 suspension - webref. SK1011C0

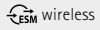
K1 right angle wall mounting - webref. SK1011B2

K1 - webref. SK1011F2

K1

SINGLE SIDED SIGNAGE

Self contained luminaires

function	mounting	NM/M	lamp type	order code	
self test					
single sided signage	surface/recessed	NM	T5 6W	K131/6N	K132/6N
	surface/recessed	M	T5 6W	K131/6P	K132/6P
	surface/recessed	M	Led 2W	K131/2P	K132/2P
ETAP Safety Manager: self test EST+				 wired	 wireless
single sided signage	surface/recessed	NM	T5 6W	K133/6N	K134/6N
	surface/recessed	M	T5 6W	K133/6P	K134/6P
	surface/recessed	M	Led 2W	K133/2P	K134/2P

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	order code
single sided signage	surface/recessed	230V AC/DC	T5 6W	K13/6-230
	surface/recessed	230V AC/DC	Led 2W	K13/2-230

Pictogram

pictogram choice: see overview p 336

Accessories

decorative end pieces	- aluminium white (RAL9006)	K1H6-1
	- white (RAL9003)	K1H6-2
protective grille		K1H7

Mounting accessories

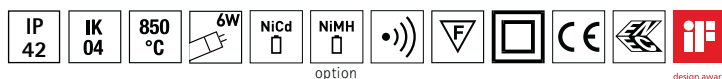
accessory right angle wall mounting (not for use with option tamper-proof device or decorative end pieces)	K1H2
suspension set	K1H5-50

K1

SURFACE, SUSPENDED AND RECESSED LUMINAIRES
FOR DOUBLE SIDED SIGNAGE



Application	Single and double sided illuminated safety signs (ceiling)
Material	Base: impact-resistant polycarbonate Diffuser: impact-resistant polycarbonate Sign plate: polymethyl metacrylate (PMMA)
Optics	Narrow beam Fresnel lens Reduced glare when viewed directly
Dimensions	L x W x H in mm: 304 x 155 x 73 Plan N.: 7001
Safety sign	Screenprinted on clear plate, viewing distance: 26 m Perfect evenly distributed illumination, conforms to EN 1838 Diffuser to assist with escape route lighting and 5 lux zones



option

design award
winner

Dimensional sketches p 450



K1 suspension – webref. SK1012D0



K1 right angle wall mounting – webref. SK1012C1



K1 recessed – webref. SK1012B1

SINGLE AND DOUBLE SIDED SIGNAGE

Self contained luminaires

function	mounting	NM/M	lamp type	order code	
self test					
single and double sided signage	surface/recessed	NM	T5 6W	K141/6N	K142/6N
	surface/recessed	M	T5 6W	K141/6P	K142/6P
ETAP Safety Manager: self test EST+					
single and double sided signage	surface/recessed	NM	T5 6W	K143/6N	K144/6N
	surface/recessed	M	T5 6W	K143/6P	K144/6P

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	order code
single and double sided signage	surface/recessed	230V AC/DC	T5 6W	K14/6-230

Pictogram

pictogram choice: see overview p 336

Accessories

decorative end pieces	- white aluminium (RAL9006)	K1H6-1
	- white (RAL9003)	K1H6-2

Mounting accessories

recessed mounting set (not for use with decorative end pieces)	K1H1
optional template for recessed mounting set	K1H8
accessory right angle wall bracket (not for use with option tamper-proof device or decorative end pieces)	K1H2
suspension set	K1H4-50





K2

IMPACT-RESISTANT, DUST AND WATERTIGHT
SURFACE, SUSPENDED AND RECESSED LUMINAIRES
FOR INTERIOR AND EXTERIOR USE

lighting

→ p 280



exterior lighting
of final emergency exit

single sided signage

→ p 282



double sided signage

→ p 284



K2

IMPACT-RESISTANT, DUST AND WATERTIGHT
SURFACE AND RECESSED LUMINAIRES FOR LIGHTING



Application	Anti-panic lighting for exterior ($t \geq -15^{\circ}\text{C}$) and interior lighting Escape route lighting for exterior ($t \geq -15^{\circ}\text{C}$) and interior lighting Exterior lighting of final emergency exit ($t \geq -15^{\circ}\text{C}$) with daylight sensor	<i>ceiling and exterior lighting fluo</i> <i>lighting of final emergency exit</i>
Material	Base: impact-resistant polycarbonate Diffuser: impact-resistant polycarbonate	
Optics	Wide-angle distribution Fresnel lens Exterior lighting of final emergency exit ($t \geq -15^{\circ}\text{C}$): narrow beam lens	
Dimensions	L x W x H in mm: 359 x 180 x 100 Plan N.: 7100	
Photometrics	K21: ceiling mounting: 14,3 m (1 lux, mounting height 2,8 m, 500 lm) K28: 1 m ² (1 lux, mounting height 5 m, 22 lm end service period)	

Dimensional sketches p 450



option



K2 suspension - webref. SK2015A1



K2 exterior lighting of final emergency exit - webref. SK2032A1



K2 right angle wall mounting - webref. S52013A1

LIGHTING

Self contained luminaires

optics	special application	temperature	mounting	NM/M	lamp type	lumen emergency	order code	
self test								
Fresnel lens	-	-	surface/recessed	NM	T5 6W	200	K211/6N	K212/6N
	-	-	surface/recessed	NM	TC-S 11W	500	K211/11N2	K212/11N2
	-	-	surface/recessed	M	T5 6W	200	K211/6P	K212/6P
	inhibiting mode	-	surface/recessed	NM	T5 6W	200	K271/6N	K272/6N
	inhibiting mode	-	surface/recessed	M	T5 6W	200	K271/6P	K272/6P
lens	for exterior use	≥ -15°C	surface/recessed	NM	T5 6W	200	K211/6NO	K212/6NO
	outdoor lighting of final emergency exit	≥ -15°C	surface/recessed	NM	Led 2W	44	K281/2N	K282/2N
	outdoor lighting of final emergency exit	≥ -15°C	surface/recessed	M	Led 2W	44	K281/2P	K282/2P
ETAP Safety Manager: self test EST+								
Fresnel lens	-	-	surface/recessed	NM	T5 6W	200	K213/6N	K214/6N
	-	-	surface/recessed	NM	TC-S 11W	500	K213/11N2	K214/11N2
	-	-	surface/recessed	N	T5 6W	200	K213/6P	K214/6P
	inhibiting mode	-	surface/recessed	NM	T5 6W	200	K273/6N	K274/6N
	inhibiting mode	-	surface/recessed	M	T5 6W	200	K273/6P	K274/6P
lens	for exterior use	≥ -15°C	surface/recessed	NM	T5 6W	200	K213/6NO	K214/6NO
	outdoor lighting of final emergency exit	≥ -15°C	surface/recessed	NM	Led 2W	44	K283/2N	K284/2N
	outdoor lighting of final emergency exit	≥ -15°C	surface/recessed	M	Led 2W	44	K283/2P	K284/2P

Centrally supplied luminaires

optics	special application	temperature	mounting	emergency supply voltage	lamp type	lumen		order code
						AC	DC	
Fresnel lens	-	-	surface/recessed	230V AC/DC	T5 6W	250	190	K21/6-230
	-	-	surface/recessed	230V AC/DC	TC-S 11W	570	470	K21/11-230
lens	outdoor lighting of final emergency exit	≥ -15°C	surface/recessed	230V AC/DC	Led 2W	25	25	K28/2-230

Accessories

protective grill	K2H27
------------------	-------

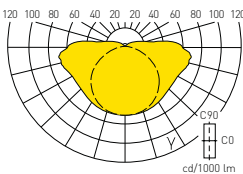
Mounting accessories

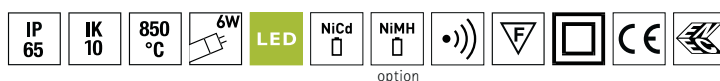
recessed mounting set	K2H21
accessory right angle wall bracket	K2H22
suspension set (the code does not include threaded rods)	K2H24

K2

IMPACT-RESISTANT, DUST AND WATERTIGHT
SURFACE AND RECESSED LUMINAIRES
FOR SINGLE SIDED SIGNAGE



Application	Single sided illuminated safety signs (wall) for exterior ($t \geq -15^{\circ}\text{C}$) and interior use	
Material	Base: impact-resistant polycarbonate Diffuser: impact-resistant polycarbonate	
Dimensions	L x W x H in mm: 359 x 180 x 100 Plan N.: 7100	
Safety sign	Foil, viewing distance: 26 m Perfect evenly distributed illumination, conforms to EN 1838 Diffuser to assist with escape route lighting and 1 lux on the floor next to each exit and emergency exit (not for LED luminaires)	



option

Dimensional sketches p 450



K2 suspension – webref. SK2019A1



K2 ceiling mounting – webref. SK2017A1



K2 with protective grille – webref. SK2028A2

SINGLE SIDED SIGNAGE

Self contained luminaires

function	temperature	mounting	NM/M	lamp type	order code	
self test						
single sided signage	-	surface/recessed	NM	T5 6W	K231/6N	K232/6N
	-	surface/recessed	M	T5 6W	K231/6P	K232/6P
	-	surface/recessed	M	Led 2W	K231/2P ¹	K232/2P ¹
single sided signage for exterior use	≥ -15°C	surface/recessed	M	Led 2W	K231/2PO ¹	K232/2PO ¹
ETAP Safety Manager: self test EST+						
single sided signage	-	surface/recessed	NM	T5 6W	K233/6N	K234/6N
	-	surface/recessed	M	T5 6W	K233/6P	K234/6P
	-	surface/recessed	M	Led 2W	K233/2P ¹	K234/2P ¹
single sided signage for exterior use	≥ -15°C	surface/recessed	M	Led 2W	K233/2PO ¹	K234/2PO ¹

¹ standard with NiMH batteries

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	order code
single sided signage	surface/recessed	230V AC/DC	T5 6W	K23/6-230
	surface/recessed	230V AC/DC	Led 2W	K23/2-230

Pictogram

pictogram choice: see overview p 336

Accessories

protective grill	K2H27
------------------	-------

Mounting accessories

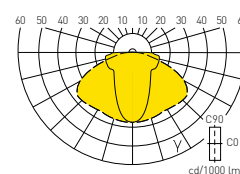
ceiling bracket	K2H23
accessory right angle wall mounting	K2H22
suspension set (the code does not include threaded rods)	K2H25

K2

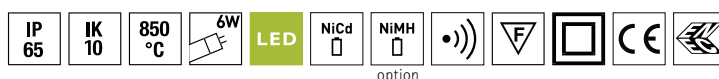
IMPACT-RESISTANT, DUST AND WATERTIGHT
SURFACE AND RECESSED LUMINAIRES
FOR DOUBLE SIDED SIGNAGE



Application	Single and double sided illuminated safety signs (ceiling) for exterior ($t \geq -15^{\circ}\text{C}$) and interior use
Material	Base: impact-resistant polycarbonate Diffuser: impact-resistant polycarbonate
Optics	Aluminium specular reflector for an even illumination of the pictogram
Dimensions	L x W x H in mm: 359 x 180 x 225 Plan N.: 7101
Safety sign	Foil, viewing distance: 26 m Perfect evenly distributed illumination, conforms to EN 1838 Diffuser to assist with escape route lighting an 1 and 5 lux on the floor next to crossings, fire extinguishers and other important places (not for LED luminaires)



Dimensional sketches p 450





K2 suspension – webref. SK2023A1



K2 right angle wall mounting – webref. SK2022A2



K2 – webref. SK2030B2

SINGLE AND DOUBLE SIDED SIGNAGE

Self contained luminaires

function	temperature	mounting	NM/M	lamp type	order code	
self test					EST	EST+
single and double sided signage	-	surface/recessed	NM	T5 6W	K241/6N	K242/6N
	-	surface/recessed	M	T5 6W	K241/6P	K242/6P
	-	surface/recessed	M	Led 2W	K241/2P ¹	K242/2P ¹
single and double sided signage for exterior use	≥ -15°C	surface/recessed	M	Led 2W	K241/2PO ¹	K242/2PO ¹
ETAP Safety Manager: self test EST+					ESM wired	ESM wireless
single and double sided signage	-	surface/recessed	NM	T5 6W	K243/6N	K244/6N
	-	surface/recessed	M	T5 6W	K243/6P	K244/6P
	-	surface/recessed	M	Led 2W	K243/2P ¹	K244/2P ¹
single and double sided signage for exterior use	≥ -15°C	surface/recessed	M	Led 2W	K243/2PO ¹	K244/2PO ¹

¹ standard with NiMH batteries

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	order code
single and double sided signage	surface/recessed	230V AC/DC	Led 2W	K24/2-230
	surface/recessed	230V AC/DC	T5 6W	K24/6-230

Pictogram

pictogram choice: see overview p 336

Mounting accessories

recessed mounting set	K2H21
accessory parallel wall bracket	K2H23
accessory right angle wall bracket	K2H22
suspension set (the code does not include threaded rods)	K2H24





K3

DUST AND WATERTIGHT SURFACE LUMINAIRES IP66

lighting

→ p 288



single sided signage

→ p 288



specific applications



high risk task area



explosive dust atmospheres

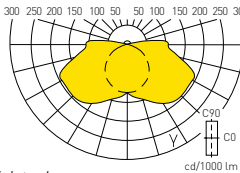
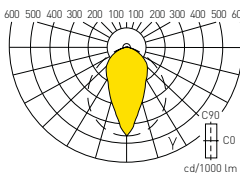


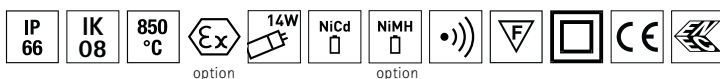
exterior lighting

K3

DUST AND WATERTIGHT
SURFACE LUMINAIRES IP66



Application	Anti-panic lighting Escape route lighting High risk task area lighting Explosive dust atmospheres, zones 21 and 22, Atex II 2 D (t = 80°C) Exterior lighting of final emergency exit (t ≥ -10°C) with daylight sensor Single sided illuminated safety signs (wall)	universal  high risk task area 
Material	Base: glassfibre-reinforced polyester (GRP) Diffuser: impact-resistant polycarbonate / quick release latches: stainless steel Seal between base and cover: polyurethane	
Optics	Wide- or narrow-angle specular reflector	
Dimensions	L x W x H in mm: 682 x 148 x 117 Plan N.: 7200	
Safety sign	Sticker, perfect evenly distributed illumination, conforms to EN 1838 Diffuser to assist with escape route lighting and 5 lux zones Viewing distance: 20 m	
Photometrics	Ceiling mounting: 15,2 m (1 lux, mounting height 2,8 m, 470 lm) Wall mounting: 8,8 m (1 lux, mounting height 2 m, 470 lm)	



Dimensional sketches p 451



K3 - webref. SK3004A4



K3 IP66 - webref. SK3004B3

LIGHTING

Self contained luminaires

optics	special application	temperature	mounting	NM/M	lamp type	lumen emergency	order code	
self test							EST+	
reflector	-	-	surface mounted	NM	T5 14W	470	K312/14N	
	-	-	surface mounted	NM	T5 14W	840	K312/14N2	
	-	-	surface mounted	M	T5 14W	470	K312/14P	
	-	-	surface mounted	M	T5 14W	840	K312/14P2	
	inhibiting mode	-	surface mounted	NM	T5 14W	470	K372/14N	
	inhibiting mode	-	surface mounted	M	T5 14W	470	K372/14P	
	for exterior use	≥ -10°C	surface mounted	M	T5 14W	220	K382/14P	
	increased risk	-	surface mounted	M	T5 14W	790	K392/14P2	
ETAP Safety Manager: self test EST+						ESM wired	ESM wireless	
reflector	-	-	surface mounted	NM	T5 14W	470	K313/14N	K314/14N
	-	-	surface mounted	NM	T5 14W	840	K313/14N2	K314/14N2
	-	-	surface mounted	M	T5 14W	470	K313/14P	K314/14P
	-	-	surface mounted	M	T5 14W	840	K313/14P2	K314/14P2
	inhibiting mode	-	surface mounted	NM	T5 14W	470	K373/14N	-
	inhibiting mode	-	surface mounted	M	T5 14W	470	K373/14P	-
	for exterior use	≥ -10°C	surface mounted	M	T5 14W	220	K383/14P	K384/14P
	increased risk	-	surface mounted	M	T5 14W	790	K393/14P2	K394/14P2

Centrally supplied luminaires

optics	special application	emergency supply voltage	lamp type	lumen		order code
				AC	DC	
reflector	-	230V AC/DC	T5 14W	120	120	K31/14-230

SINGLE SIDED SIGNAGE

Self contained luminaires

function	mounting	NM/M	lamp type	order code	
self test				EST+	
single sided signage	surface mounted	NM	T5 14W	K312/14N	
	surface mounted	M	T5 14W	K312/14P	
ETAP Safety Manager: self test EST+				ESM wired	ESM wireless
single sided signage	surface mounted	NM	T5 14W	K313/14N	K314/14N
	surface mounted	M	T5 14W	K313/14P	K314/14P

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	order code
single sided signage	surface mounted	230V AC/DC	T5 14W	K31/14-230

Pictogram

pictogram choice: see overview p 336

Accessories

protective grille

K2H2



K5

RECESSED LUMINAIRES



lighting

→ p 292



single and double sided signage

→ p 294

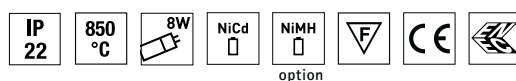


K5

RECESSED LUMINAIRES FOR LIGHTING



Application	Anti-panic lighting Escape route lighting	
Material	Base: white painted sheet steel Ceiling plate: white aluminium (RAL9006) or white (RAL9003) painted sheet steel	
Optics	Reflector: anodised aluminium, white cross baffles Diffuser: polycarbonate diffuser	
Dimensions	L x W x H in mm: 398 x 140 x 96 Plan N.: 7300	
Photometrics	Reflector: 13,3 m (1 lux, mounting height 2,8 m, 260 lm) Diffuser: ceiling mounting: 10,0 m (1 lux, mounting height 2,8 m, 200 lm) / wall mounting: 5,5 m (1 lux, mounting height 2 m, 200 lm)	



Dimensional sketches p 451

K5 - webref. SK5021A4

K5 - webref. SK5021A5

LIGHTING

Self contained luminaires

optics	mounting	MN/N	lamp type	lumen emergency	order code ¹	
self test						
reflector	recessed ceiling	NM	T5 8W	260	K5R11/8N	K5R12/8N
	recessed ceiling	NM	T5 8W	380	K5R11/8N2	K5R12/8N2
	recessed ceiling	M	T5 8W	260	K5R11/8P	K5R12/8P
	recessed ceiling	M	T5 8W	380	K5R11/8P2	K5R12/8P2
opal diffuser	recessed ceiling / wall	NM	T5 8W	200	K5R31/8N	K5R32/8N
	recessed ceiling / wall	NM	T5 8W	290	K5R31/8N2	K5R32/8N2
	recessed ceiling / wall	M	T5 8W	200	K5R31/8P	K5R32/8P
	recessed ceiling / wall	M	T5 8W	290	K5R31/8P2	K5R32/8P2
ETAP Safety Manager: self test EST+					 wired	
reflector	recessed ceiling	NM	T5 8W	260	K5R13/8N	
	recessed ceiling	NM	T5 8W	380	K5R13/8N2	
	recessed ceiling	M	T5 8W	260	K5R13/8P	
	recessed ceiling	M	T5 8W	380	K5R13/8P2	
opal diffuser	recessed ceiling / wall	NM	T5 8W	200	K5R33/8N	
	recessed ceiling / wall	NM	T5 8W	290	K5R33/8N2	
	recessed ceiling / wall	M	T5 8W	200	K5R33/8P	
	recessed ceiling / wall	M	T5 8W	290	K5R33/8P2	

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

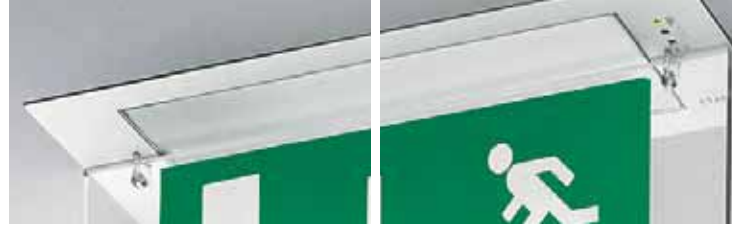
Centrally supplied luminaires

optics	mounting	emergency supply voltage	lamp type	lumen		order code ¹
				AC	DC	
reflector	recessed ceiling	230V AC/DC	T5 8W	400	330	K5R1/8-230
diffuser	recessed ceiling / wall	230V AC/DC	T5 8W	330	275	K5R3/8-230

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

Mounting accessory

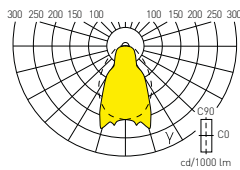
template for recessed mounting	K5RH8
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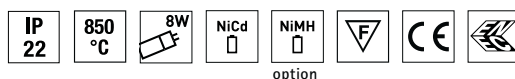


K5

RECESSED LUMINAIRES FOR SINGLE AND DOUBLE SIGNAGE



Application	Single sided illuminated safety signs (wall) Single and double sided illuminated safety signs (ceiling)	
Material	Base: white painted sheet steel Ceiling plate: white aluminium (RAL9006) or white (RAL9003) painted sheet steel Diffuser: polycarbonate Sign plate: polymethyl metacrylate (PMMA)	
Optics	Internal reflector Diffuser lightpanels	
Dimensions	L x W x H in mm: 398 x 140 x 96 Plan N.: 7300	
Safety sign	Viewing distance: 26 m Screenprint on a clear sign plate Perfect evenly distributed illumination, conforms to EN 1838 Diffuser to assist with escape route lighting and 5 lux zones	



option

Dimensional sketches p 451



K5 wall mounting - webref. SK5022A2



K5 - webref. SK5021B9



K5 - webref. SK5022B1

SINGLE SIDED SIGNAGE (WALL)

Self contained luminaires

function	mounting	NM/M	lamp type	order code ¹	
self test					
single sided signage	recessed	NM	T5 8W	K5R31/8N	K5R32/8N
	recessed	M	T5 8W	K5R31/8P	K5R32/8P
ETAP Safety Manager: self test EST+				wired	
single sided signage	recessed	NM	T5 8W	K5R33/8N	
	recessed	M	T5 8W	K5R33/8P	

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	order code ¹
single sided signage	recessed	230V AC/DC	T5 8W	K5R3/8-230

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

SINGLE AND DOUBLE SIDED SIGNAGE (CEILING)

Self contained luminaires

function	mounting	NM/M	lamp type	order code ¹	
alleenstaand					
single and double sided signage	recessed	NM	T5 8W	K5R41/8N	K5R42/8N
	recessed	M	T5 8W	K5R41/8P	K5R42/8P
ETAP Safety Manager: self test EST+				wired	
single and double sided signage	recessed	NM	T5 8W	K5R43/8N	
	recessed	M	T5 8W	K5R43/8P	

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	order code ¹
single and double sided signage	recessed	230V AC/DC	T5 8W	K5R4/8-230

¹ code + X1: luminaire in RAL9003-white / code + X2: luminaire in RAL9006-aluminium white

Pictogram

pictogram choice: see overview p 336

Accessory

template for recessed mounting	K5RH8
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K6

SURFACE LUMINAIRES

lighting

→ p 298



single sided signage

→ p 302



double sided signage

→ p 303



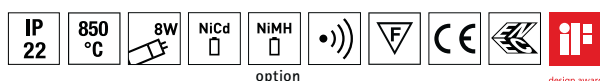
K6

SURFACE LUMINAIRES FOR LIGHTING



Appication	Anti-panic lighting Escape route lighting	<i>ceiling - clear diffuser</i> <i>wall - opal diffuser</i>
Material	Housing: aluminium, painted white aluminium (RAL9006); white (RAL9003) as option	
Optics	Ceiling mounting: satin-anodised aluminium reflector, clear diffuser (850°C) Wall mounting: opal diffuser (850°C)	
Dimensions	L x W x H in mm: 340 x 225 x 55 Plan N.: 7400	
Photometrics	Ceiling mounting: 12,7 m (1 lux, mounting height 2,8 m, 200 lm) Wall mounting: 4,8 m (1 lux, mounting height 2 m, 120 lm)	

Dimensional sketches p 451





K6 easy installation - webref. SK6003A4



K6 with aluminium reflector - webref. SK6004F3

LIGHTING

Self contained luminaires

optics		mounting	NM/M	lamp type	lumen emergency	order code ¹	
self test							
reflector	clear	surface ceiling	NM	T5 8W	200	K612/8N	
	clear	surface ceiling	NM	T5 8W	340	K612/8N2	
	clear	surface ceiling	M	T5 8W	200	K612/8P	
	clear	surface ceiling	M	T5 8W	340	K612/8P2	
diffuser	opal	surface wall	NM	T5 8W	120	K632/8N	
	opal	surface wall	M	T5 8W	120	K632/8P	
ETAP Safety Manager: self test EST+						 wired	 wireless
reflector	clear	surface ceiling	NM	T5 8W	200	K613/8N	K614/8N
	clear	surface ceiling	NM	T5 8W	340	K613/8N2	K614/8N2
	clear	surface ceiling	M	T5 8W	200	K613/8P	K614/8P
	clear	surface ceiling	M	T5 8W	340	K613/8P2	K614/8P2
diffuser	opal	surface wall	NM	T5 8W	120	K633/8N	K634/8N
	opal	surface wall	M	T5 8W	120	K633/8P	K634/8P

¹ standard colour: RAL9006-aluminium white / code + X1: luminaire in RAL9003-white

Centrally supplied luminaires

optics		mounting	emergency supply voltage	lamp type	lumen		order code ¹
					AC	DC	
reflector	clear	surface ceiling	230V AC/DC	T5 8W	140	110	K61/8-230
diffuser	opal	surface wall	230V AC/DC	T5 8W	80	70	K63/8-230

¹ standard colour: RAL9006-aluminium white / code + X1: luminaire in RAL9003-white



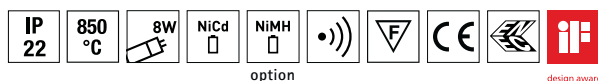
K6

SURFACE LUMINAIRES
FOR SIGNAGE



Application	Single sided signage (wall) Single and double sided signage (wall / ceiling)
Material	Housing: aluminium, painted aluminium white (RAL9006), white (RAL9003) as an option Safety sign panel: polycarbonate
Dimensions	L x W x H in mm: 340 x 225 x 55 Plan N.: 7402
Safety sign	Screenprint on clear diffuser Perfect evenly distributed illumination, conform to EN 1838 Viewing distance: 26 m

Dimensional sketches p 451



option

design award
winner



K6 - webref. SK6006A1



K6 - webref. SK6002C1

SINGLE SIDED SIGNAGE

Self contained luminaires

function	mounting	NM/M	lamp type	order code ¹	
self test				EST+	
single sided signage	wall	NM	T5 8W	K642/8N + picto	
	wall	M	T5 8W	K642/8P + picto	
ETAP Safety Manager: zelftest EST+				ESM wired	ESM wireless
single sided signage	wall	NM	T5 8W	K643/8N + picto	K644/8N + picto
	wall	M	T5 8W	K643/8P + picto	K644/8P + picto

¹ standard colour: RAL9006-aluminium white / code + X1: luminaire in RAL9003-white

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	order code ¹
single sided signagelering	wall	230V AC/DC	T5 8W	K64/8-230 + picto

¹ standard colour: RAL9006-aluminium white / code + X1: luminaire in RAL9003-white

Pictogram

pictogram choice: see overview p 336

Order example



K6 self contained wall luminaire, maintained function of the lamp, extensive self test EST+ and provided with tamper-proof device

order code = luminaire code + pictogram code
+ (selected) mechanical option code + (selected) electronic option code

- code of the self contained luminaire: = K642/8P
- code of the pictogram: + G0 = K642/8PG0
- code of mechanical option tamper-proof device: + M1 = K642/8PG0M1
- code of electrical option 3 h duration: + S2 = K642/8PG0M1S2



K6 suspension – webref. SK6003B1



K6 ceiling mounting – webref. SK6004B1



K6 right angle wall mounting – webref. SK6004C1

SINGLE AND DOUBLE SIDED SIGNAGE

Self contained luminaires

function	mounting	NM/M	lamp type	order code ¹	
alleenstaand				EST+	
single sided signage	surface	NM	T5 8W	K652/8N + picto	
	surface	M	T5 8W	K652/8P + picto	
double sided signage	surface	NM	T5 8W	K622/8N + picto	
	surface	M	T5 8W	K622/8P + picto	
ETAP Safety Manager zelftest EST+				wired	wireless
single sided signage	surface	NM	T5 8W	K653/8N + picto	K654/8N + picto
	surface	M	T5 8W	K653/8P + picto	K654/8P + picto
double sided signage	surface	NM	T5 8W	K623/8N + picto	K624/8N + picto
	surface	M	T5 8W	K623/8P + picto	K624/8P + picto

¹ standard colour: RAL9006-aluminium white / code + X1: luminaire in RAL9003-white

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	order code ¹
single sided signage	surface	230V AC/DC	T5 8W	K65/8-230 + picto
double sided signage	surface	230V AC/DC	T5 8W	K62/8-230 + picto

¹ standard colour: RAL9006-aluminium white / code + X1: luminaire in RAL9003-white

Pictogram

pictogram choice: see overview p 336

Mounting accessories

accessory right angle wall bracket	suffix M2
accessory right angle wall bracket + tamper-proof device	suffix M21
steel wire suspension set	suffix M3
steel-wire suspension set + tamper-proof device	suffix M31





K 7

SURFACE AND RECESSED LUMINAIRES WITH LED

non-maintained lighting

→ p 306



escape route (from 3,5 m mounting height) or stairway lighting (up to 3,5 m)

maintained lighting

→ p 308



escape route (from 3,5 m mounting height) or stairway lighting (up to 3,5 m)



comfort lighting

single sided signage

→ p 310



double sided signage

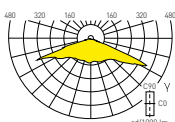
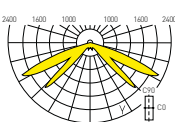
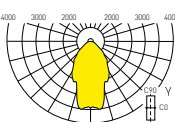
→ p 312



K7

SURFACE AND RECESSED LUMINAIRES
FOR NON-MAINTAINED LIGHTING



Material	Housing: impact-resistant polycarbonate		
Application	Anti-panic lighting (44x150x70mm) plan N. 7500a 		Optic: all-round, wide-angle lens Photometrics: 10,5 m (0,5 lux, mounting height 2,8 m)
	Escape route lighting (≤ 3,5 m) (44x150x70mm) plan N. 7500a 		Optic: plastic, specular reflector, wide-angle distribution along the centre line of the escape route Photometrics: 14,8m (1 lux, mounting height 2,8 m)
	Escape route (> 3,5 m) or stairway lighting (≤ 3,5m) (44x150x70 mm) plan N. 7500a 		Optic: wide-angle Fresnel lens Photometrics: 15 m (1 lux, mounting height 7 m) Stairway: 5 lux on 2 m by 2,8 m mounting height

Dimensional sketches p 451





K7 stairway lighting - webref. SK7009B1



K7 with through wiring - webref. SK7005A3A



K7 wall mounting - webref. SK7006A4

NON-MAINTAINED LIGHTING

Self contained luminaires

optics	application	mounting	NM/M	lamp type	lumen emergency	order code	
self test							
reflector and lens	escape route	ceiling $\leq 3,5$ m	NM	LED 3W	88	K711/3N	K712/3N
lens	escape route ¹	ceiling $> 3,5$ m	NM	LED 3W	85	K711/3N2¹	K712/3N2¹
lens	anti-panic	ceiling	NM	LED 3W	100	K721/3N2	K722/3N2
ETAP Safety Manager: self test EST+							
reflector and lens	escape route	ceiling $\leq 3,5$ m	NM	LED 3W	88	K713/3N	K714/3N
lens	escape route ¹	ceiling $> 3,5$ m	NM	LED 3W	85	K713/3N2¹	K714/3N2¹
lens	anti-panic	ceiling	NM	LED 3W	100	K723/3N2	K724/3N2

¹ also for stairway lighting $\leq 3,5$ m

Centrally supplied luminaires

optics	application	mounting	emergency supply voltage	lamp type	lumen		order code
					AC	DC	
reflector and lens	escape route	ceiling $\leq 3,5$ m	230V AC/DC	LED 3W	88	88	K71/3N-230
lens	escape route ¹	ceiling $> 3,5$ m	230V AC/DC	LED 3W	85	85	K71/3N2-230¹
lens	anti-panic	ceiling	230V AC/DC	LED 3W	100	100	K72/3N2-230

¹ also for stairway lighting $\leq 3,5$ m

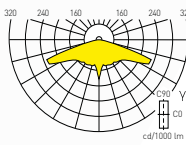
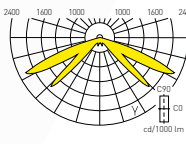
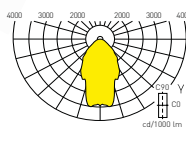
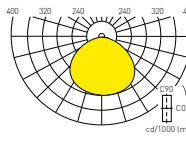
Mounting accessories

recessed mounting set	K7H21
accessory right angle wall bracket	K7H23-1
accessory for through wiring and/or surface mounted cabling	K7H29

K7

SURFACE AND RECESSED LUMINAIRES FOR MAINTAINED LIGHTING



Material	Housing: impact-resistant polycarbonate		
Application	Maintained lighting is fitted with a daylight sensor that switches off the light source during the day. Under insufficient lighting conditions the luminaire burns at 20%.		
Anti-panic lighting (52x182x85 mm) plan N. 7500b			Optic: wide-angle lens Photometrics: 9,5 m (0,5 lux, mounting height 2,8 m)
Escape route lighting (≤ 3,5 m) (52x182x85 mm) plan N. 7500b			Optic: plastic, specular reflector, wide-angle distribution along the centre line of the escape route Photometrics: 14,8 m (1 lux, mounting height 2,8 m)
Escape route (> 3,5 m) or stairway lighting (≤ 3,5 m) (52x182x85 mm) plan N. 7500b			Optic: wide-angle Fresnel lens Photometric: 15 m (1 lux, mounting height 7 m) Stairway: 5 lux on 2 m by 2,8 m mounting height
Comfort lighting for escape route and anti-panic (52x182x85 mm) plan N. 7500b			Optic: diffuser Photometrics: 7,1 m (1 lux, mounting height 2,8 m) 7,9 m (0,5 lux, mounting height 2,8m)

Dimensional sketches p. 452





K7 recessed comfort lighting - webref. SK7007A1



K7 maintained anti-panic lighting - webref. SK7008A2



K7 escape route wall mounting - webref. SK7009A2

MAINTAINED LIGHTING

Self contained luminaires

optics	application	mounting	NM/M	lamp type	lumen emergency	order code	
self test							
reflector and lens	escape route	ceiling ≤ 3,5 m	M	LED 3W	88	K711/3P	K712/3P
lens	escape route ¹	ceiling > 3,5 m	M	LED 3W	85	K711/3P2 ¹	K712/3P2 ¹
lens	anti-panic	ceiling	M	LED 3W	93	K721/3P2	K722/3P2
diffuser	comfort lighting	ceiling ≤ 3,5 m	M	LED 3W	79	K761/3P	K762/3P
ETAP Safety Manager: self test EST+							
reflector and lens	escape route	ceiling ≤ 3,5 m	M	LED 3W	88	K713/3P	K714/3P
lens	escape route ¹	ceiling > 3,5 m	M	LED 3W	85	K713/3P2 ¹	K714/3P2 ¹
lens	anti-panic	ceiling	M	LED 3W	93	K723/3P2	K724/3P2
diffuser	comfort lighting	ceiling ≤ 3,5 m	M	LED 3W	79	K763/3P	K764/3P

¹ also stairway lighting ≤ 3,5 m

Mounting accessories

recessed mounting set	K7H31
accessory parallel wall bracket	K7H33
accessory for through wiring and/or surface mounted cabling	K7H39

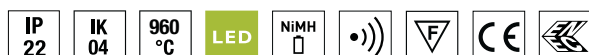
K7

SURFACE LUMINAIRES FOR SINGLE SIDED SIGNAGE



Application	Single sided signage (wall)	escape route module light spot module symmetrical all-round illumination
Material	Housing: impact-resistant polycarbonate Diffuser: impact-resistant polycarbonate Mounting bracket: galvanised steel	
Optics	Non-reflective cover Licht conductor and dot matrix film	
Dimensions	L x W x H in mm: 314 x 180 x 58 Plan N.: 7501	
Safety sign	Foil, viewing distance: 26 m Perfect evenly distributed illumination, conform to EN 1838	
Self test	Gives a warning signal when the brightness under emergency conditions drops below 2 cd/m ²	
Optional	Escape route module (-L1): 12,2 m intermediate distance with emergency lighting fitting (1 lux, mounting height 2,8m) Lightspot module (-L2): 5 lux on 1 m ² up to 4 m mounting height, for crossings of escape routes, fire extinguishers and other important places	

Dimensional sketches p 452





K7 upgrade to ESM - webref. SK7010C1

The pictogram is easy to place and change
- webref. SK7003C2

K7 with throughwiring - webref. SK7003G1

SINGLE SIDED SIGNAGE

Self contained luminaires

function	mounting	NM/M	lamp type	order code	
self test					
single sided signage	surface	NM/M*	LED 3W	K731/3P	K732/3P
ETAP Safety Manager: self test EST+					
single sided signage	surface	NM/M *	LED 3W	K733/3P	K734/3P

* NM/M adjustable at installation: see wiring diagrams p. 448

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	order code
single sided signage	surface	230V AC/DC	LED 3W	K73/3-230

Pictogram

pictogram choice: see overview p 336

Accessories

protective grille	K7H17
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Mounting accessories

accessory for through wiring and/or surface mounted cabling (wall mounting)	K7H19-1
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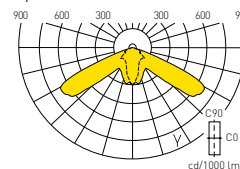
K7

SURFACE LUMINAIRES FOR DOUBLE SIDED SIGNAGE



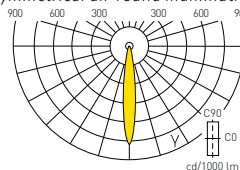
Application	Single and double sided signage (wall/ceiling)
Material	Housing: impact-resistant polycarbonate Diffuser: impact-resistant polycarbonate Mounting bracket: galvanised steel
Optics	Non-reflective cover Light conductor and dot matrix for perfectly uniform lighting
Dimensions	L x W x H in mm: 314 x 180 x 58 Plan N.: 7501
Safety sign	Foil, viewing distance: 26 m Perfect evenly distributed illumination, conform to EN 1838
Self test	Gives a warning indication when the brightness under emergency conditions drops below 2 cd/m ²
Optional	Escape route module (-L1): 12,2 m intermediate distance with emergency lighting fitting (1 lux, mounting height 2,8m) Lightspot module (-L2): 5 lux on 1 m ² up to 4 m mounting height, for crossings of escape routes, fire extinguishers and other important places

escape route module

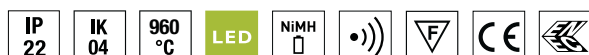


lightspot module

symmetrical all-round illumination



Dimensional sketches p 452





K7 suspension – webref. SK7004A1



K7 recessed mounting – webref. SK7002A1



K7 right angle wall mounting – webref. SK7003A1

SINGLE AND DOUBLE SIDED SIGNAGE

Self contained luminaires

function	mounting	NM/M	lamp type	order code	
self test					
single and double sided signage	surface/recessed	NM/M*	LED 3W	K741/3P	K742/3P
ETAP Safety Manager: self test EST+					
single and double sided signage	surface/recessed	NM/M*	LED 3W	K743/3P	K744/3P

* NM/M adjustable at installation: see wiring diagrams p 448

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	order code
single and double sided signage	surface/recessed	230V AC/DC	LED 3W	K74/3-230

Pictogram

pictogram choice: see overview p 336

Mounting accessories

recessed mounting set	K7H11
accessory right angle wall bracket	K7H12
suspension set	K7H14-50
accessory for through wiring and/or surface mounted cabling	K7H19-2



webref. SK9006J4

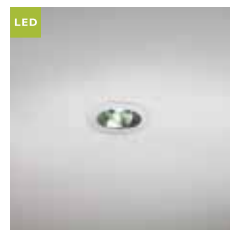
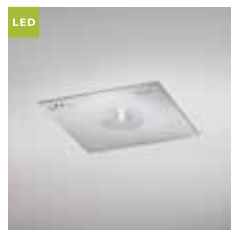


K9

LED TECHNOLOGY

lighting

→ p 318



lighting modules (see p 316)

single and doubled sided signage
maintained

→ p 323



single and double sided
signage
non-maintained

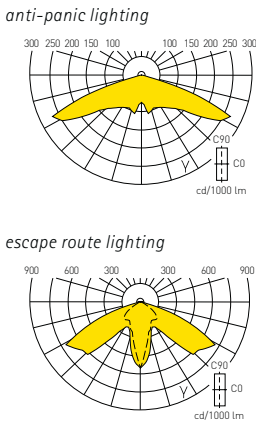
→ p 320



K9

LIGHTING MODULES



Application	Anti-panic lighting Escape route lighting	 <i>anti-panic lighting</i> <i>escape route lighting</i>
Material	Housing: injection moulded plastic, mat grey Heat sink: aluminium	
Optics	Lens for circular light distribution with plastic, vacuum metalised specular reflector for light distribution along the centre line of the escape route	
Dimensions	L x H in mm: 30 x 38 Plan N.: 7700	
Photometrics	Anti-panic lighting: 10,9 m (1 lux, mounting height 2,8 m) Escape route lighting: 10,8 m (1 lux, mounting height 2,8 m)	
Integration	Available either discrete or integrated in ETAP luminaires	
Order	Consult your ETAP adviser for information on integration in an ETAP luminaire	



Dimensional sketches p 452



K9 module integration in reflector luminaire - webref. SK9015A7



K9 module integration in Luxial® downlight - webref. SK9017A1

LIGHTING

Self contained luminaires

optics	mounting	NM/M	lamp type	lumen emergen	order code
self test					
anti-panic lighting	recessed	NM	LED 3W	92	K9022/3N
escape route lighting	recessed	NM	LED 3W	115	K9012/3N
ETAP Safety Manager: self test EST+					
anti-panic lighting	recessed	NM	LED 3W	92	K9023/3N
escape route lighting	recessed	NM	LED 3W	115	K9013/3N

Centrally supplied luminaires¹

optics	mounting	emergency supply voltage	lamp type	lumen		order code
				AC	DC	
anti-panic lighting	recessed	110-230V AC/DC	LED 3W	92	92	K902/3-ADH
escape route lighting	recessed	110-230V AC/DC	LED 3W	115	115	K901/3-ADH

¹ to be used only on non-maintained circuits

K9

SURFACE AND RECESSED LUMINAIRES FOR LIGHTING



Application	Anti-panic lighting Escape route lighting Night/emergency lighting: maintained operation of the LED in standby mode provides a reduced light level of 5 lumens for night surveillance	<i>anti-panic lighting</i> <i>escape route lighting</i>
Material	Housing: pressure die cast aluminium, painted white aluminium (RAL9006) , white (RAL9003) as option	
Optics	Lens for circular light distribution with plastic, vacuum metalised specular reflector for light distribution along the centre line of the escape route	
Dimensions	L x W x H in mm: 150 x 150 x 35 Plan N.: 7704	
Photometrics	Anti-panic lighting: 14 m (0,5 lux, mounting height 2,8 m) Escape route lighting: 15 m (1 lux, mounting height 2,8 m)	

Dimensional sketches p 452





K9 recessed escape route – webref. SK9014B1



K9 surface anti-panic – webref. SK9012B2



K9 recessed escape route – webref. SK9014A1

LIGHTING - SQUARE

Self contained luminaires

application	mounting	NM/M	lamp type	lumen emergency	order code ³
					EST+
self test					
anti-panic lighting	recessed	NM	LED 3W	124	K9322/3N
	surface	NM	LED 3W	124	K9122/3N
	recessed	M ¹	LED 3W	124	K9322/3P
	surface	M ¹	LED 3W	124	K9122/3P
escape route lighting	recessed	NM	LED 3W	118	K9312/3N
	surface	NM	LED 3W	118	K9112/3N
	recessed	M ¹	LED 3W	118	K9312/3P
	surface	M ¹	LED 3W	118	K9112/3P
ETAP Safety Manager: self test EST+					ESM wired
anti-panic lighting	recessed	NM	LED 3W	124	K9323/3N
	surface	NM	LED 3W	124	K9123/3N
	recessed	M ¹	LED 3W	124	K9323/3P
	surface	M ¹	LED 3W	124	K9123/3P
escape route lighting	recessed	NM	LED 3W	118	K9313/3N
	surface	NM	LED 3W	118	K9113/3N
	recessed	M ¹	LED 3W	118	K9313/3P
	surface mounted	M ¹	LED 3W	118	K9113/3P

Centrally supplied luminaires²

application	mounting	emergency supply voltage	lamp type	lumen		order code ³
				AC	DC	
anti-panic lighting	recessed	110-230V AC/DC	LED 3W	124	124	K932/3-ADH
	surface	110-230V AC/DC	LED 3W	124	124	K912/3-ADH
escape route lighting	recessed	110-230V AC/DC	LED 3W	118	118	K931/3-ADH
	surface	110-230V AC/DC	LED 3W	118	118	K911/3-ADH

LIGHTING - ROUND

Self contained luminaires

application	mounting	NM/M	lamp type	lumen emergency	order code ³
					EST+
EST+					
anti-panic lighting	recessed	NM	LED 3W	124	K9222/3N
	recessed	M ¹	LED 3W	124	K9222/3P
escape route lighting	recessed	NM	LED 3W	118	K9212/3N
	recessed	M ¹	LED 3W	118	K9212/3P
ESM					ESM wired
anti-panic lighting	recessed	NM	LED 3W	124	K9223/3N
	recessed	M ¹	LED 3W	124	K9223/3P
escape route lighting	recessed	NM	LED 3W	118	K9213/3N
	recessed	M ¹	LED 3W	118	K9213/3P

Centrally supplied luminaires²

application	mounting	emergency supply voltage	lamp type	lumen		order code ³
				AC	DC	
anti-panic lighting	recessed	110-230V AC/DC	LED 3W	124	124	K922/3-ADH
escape route lighting	recessed	110-230V AC/DC	LED 3W	118	118	K921/3-ADH

¹ night / emergency lighting (5 lm in standby mode))

² to be used only on non-maintained circuits

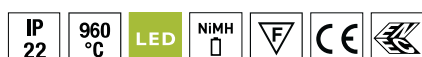
³ standard colour: RAL9006-aluminium white / code +X1: luminaire in RAL9003-white

K9

SURFACE AND RECESSED LUMINAIRES FOR NON-MAINTAINED SIGNAGE



Application	Single and double sided signage (ceiling)
Material	Housing: pressure die cast aluminium, painted white aluminium (RAL9006) , white (RAL9003) as option
Optics	Lens for circular light distribution with plastic, vacuum metalised specular reflector for illumination of the pictogram
Dimensions	L x W x H in mm: 155 x 155 x 70 Plan N.: 7708
Safety sign	Screenprint on foil, clear sign plate Illumination conforms EN 1838 Viewing distance: 12 m



Dimensional sketches p 453



K9 – webref. SK9022B1



K9 recessed – webref. SK9004B1

SINGLE AND DOUBLE SIDED SIGNAGE

Self contained luminaires

function	mounting	NM/M	lamp type	order code ¹
self test				
single and double sided signage	recessed	NM	LED 3W	K9352/3N
	surface	NM	LED 3W	K9152/3N
ETAP Safety Manager: self test EST+				bedraad
single and double sided signage	recessed	NM	LED 3W	K9353/3N
	surface	NM	LED 3W	K9153/3N

Centrally supplied luminaires

optics	mounting	emergency supply voltage	lamp type	order code ¹
single and double sided signage	recessed	110-230V AC/DC	LED 3W	K935/3-ADH
	surface	110-230V AC/DC	LED 3W	K915/3-ADH

¹ standard colour: RAL9006-aluminium white / code +X1: luminaire in RAL9003-white

Pictogram

pictogram choice: see overview p 336



K9

SURFACE AND RECESSED LUMINAIRES FOR MAINTAINED SIGNAGE



Application	Single sided signage (wall) Single and double sided signage (wall - right angel/ceiling)
Material	Housing: pressure die cast aluminium, painted white aluminium (RAL9006), white (RAL9003) as option Housing recessed: white (RAL9003) or white aluminium (RAL9006) painted sheet steel Sign plate: polymethyl metacrylate (PMMA)
Dimensions	L x W x H in mm: 155 x 155 x 70 Plan N.: 7709
Brightness of the sign	Under emergency conditions > 2 cd/m ² , conforms EN 1838 In standby mode: 2 types • Long life: brightness in standby mode 2 cd/m². Brightness under emergency conditions drops under the required 2 cd/m² after approximately 10 years (85,000 hours) • Brightness: brightness in standby mode > 2 cd/m². Brightness under emergency conditions drops under the required 2 cd/m² after approximately 3 years (30,000 hours)
Self test	Gives a lamp warning when the brightness under emergency conditions drops below 2 cd/m ²
Safety sign	Screenprint on foil, clear sign plate with screenprinted dot-matrix Perfect evenly distributed illumination, conform to EN 1838 Viewing distance: 26 m



design award
winner

Dimensional sketches p 453



K9 – webref. SK9007A2



K9 wall mounting – webref. SK3006A6

SINGLE SIDED SIGNAGE

Self contained luminaires

function	special application	mounting	NM/M	lamp type	order code ¹	
self test					EST+	
single sided signage	long life	wall	M	LED 1W	K9432/1P	
	brightness	wall	M	LED 1W	K9432/1P2	
ETAP Safety Manager: self test EST+					ESM wired	ESM wireless
single sided signage	long life	wall	M	LED 1W	K9433/1P	K9434/1P
	brightness	wall	M	LED 1W	K9433/1P2	K9434/1P2

¹ standard colour: RAL9006-aluminium white / code + X1: luminaire in RAL9003-white

Centrally supplied luminaires

function	special application	mounting	emergency supply voltage	lamp type	order code ¹
single sided signage	brightness	wall	110-230V AC/DC	LED 1W	K943/1-ADH

¹ standard colour: RAL9006-aluminium white / code + X1: luminaire in RAL9003-white

Pictogram

pictogram choice: see overview p 336



K9 suspension – webref. SK9005E1



K9 ceiling mounting – webref. SK9003A2



K9 recessed – webref. SK9004A2

SINGLE AND DOUBLE SIDED SIGNAGE

Self contained luminaires

function	special application	mounting	NM/M	lamp type	order code ¹	
self test					EST+	
single and double sided signage	long life	recessed	M	LED 1W	K9242/1P	
	brightness	recessed	M	LED 1W	K9242/1P2	
	long life	surface	M	LED 1W	K9142/1P	
	brightness	surface	M	LED 1W	K9142/1P2	
	long life	wall right angle	M	LED 1W	K9542/1P	
	brightness	wall right angle	M	LED 1W	K9542/1P2	
ETAP Safety Manager : self test EST+					ESM wired	ESM wireless
single and double sided signage	long life	recessed	M	LED 1W	K9243/1P	-
	brightness	recessed	M	LED 1W	K9243/1P2	-
	long life	surface	M	LED 1W	K9143/1P	K9144/1P
	brightness	surface	M	LED 1W	K9143/1P2	K9144/1P2
	long life	wall right angle	M	LED 1W	K9543/1P	K9544/1P
	brightness	wall right angle	M	LED 1W	K9543/1P2	K9544/1P2

¹ standard colour: RAL9006-aluminium white / code + X1: luminaire in RAL9003-white

Centrally supplied luminaires

function	special application	mounting	emergency supply voltage	lamp type	order code ¹
single and double sided signage	brightness	recessed	110-230V AC/DC	LED 1W	K924/1-ADH
	brightness	surface	110-230V AC/DC	LED 1W	K914/1-ADH
	brightness	wall right angle	110-230V AC/DC	LED 1W	K954/1-ADH

¹ standard colour: RAL9006-aluminium white / code + X1: luminaire in RAL9003-white

Pictogram

pictogram choice: see overview p 336

Mounting accessories

steel-wire suspension set	K9H2-50
template for recessed mounting (ceiling)	K9H3





K
B

IMPACT-RESISTANT, DUST AND WATERTIGHT
SURFACE LUMINAIRES
FOR INTERIOR AND EXTERIOR USE*

lighting

→ p 328



*exterior lighting
of finale emergency exit*

single or double sided signage

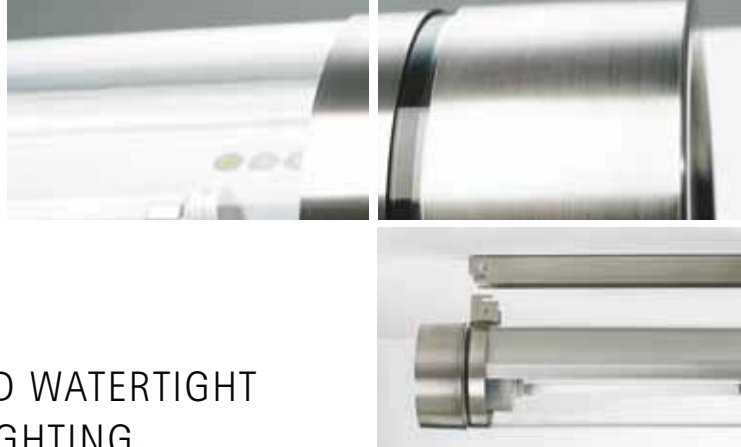
→ p 330



* decorative end pieces sold separately (see accessories)

KB

IMPACT-RESISTANT, DUST AND WATERTIGHT SURFACE LUMINAIRES FOR LIGHTING



Application	Anti-panic lighting for exterior ($t \geq -15^{\circ}\text{C}$) and interior Escape route lighting for exterior ($t \geq -15^{\circ}\text{C}$) and interior Emergency lighting of final emergency exit ($t \geq -15^{\circ}\text{C}$) + daylight sensor	exterior lighting of final emergency exit ($t \geq -15^{\circ}\text{C}$)
Material	Housing: stainless steel 304 Diffuser: impact-resistant polycarbonate	
Optics	Wide-angle specular reflector Exterior lighting of final emergency exit: narrow beam lens	
Dimensions	L x W x H in mm: 499 x 134 x 177 Plan N.: 7800	
Photometrics	KB1: ceiling: 12,6 m (1 lux, mounting height 2,8m, 230 lm) KB8: 1 m ² (1 lux, mounting height 5 m, 22 lm end service period)	

Dimensional sketches p 454



option



KB with decorative end pieces – webref. SKB1001D

LIGHTING

Self contained luminaires

optics	special function	temperature	mounting	NM/M	lamp type	lumen emergency	order code
self test							
reflector	-	-	surface	NM	T5 8W	230	KB12/8N
	-	-	surface	NM	T5 8W	430	KB12/8N2
	-	-	surface	M	T5 8W	430	KB12/8P2
	for exterior use	≥ -15°C	surface	NM	T5 8W	230	KB12/8NO ¹
	for exterior use	≥ -15°C	surface	M	T5 8W	430	KB12/8P2O
	outdoor lighting of final emergency exit	≥ -15°C	surface	M	LED 1W	85	KB82/2P ¹
ETAP Safety Manager: self test EST+							wired wireless
reflector	-	-	surface	NM	T5 8W	230	KB13/8N
	-	-	surface	NM	T5 8W	430	KB13/8N2
	-	-	surface	M	T5 8W	430	KB13/8P2
	for exterior use	≥ -15°C	surface	NM	T5 8W	230	KB13/8NO ¹
	for exterior use	≥ -15°C	surface	M	T5 8W	430	KB13/8P2O
	outdoor lighting of final emergency exit	≥ -15°C	surface	M	LED 1W	85	KB83/2P ¹

¹ standard with NiMH batteries

Centrally supplied luminaires

optics	special function	temperature	mounting	emergency supply voltage	lamp type	lumen AC DC	order code
reflector	-	-	surface	230V AC/DC	T5 8W	370 280	KB1/8-230
	outdoor lighting of final emergency exit	≥ -15°C	surface	230V AC/DC	LED 1W	44 44	KB8/2-230

Accessories

decorative end pieces	KBH6
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KB

IMPACT-RESISTANT, DUST AND
WATERTIGHT LUMINAIRES FOR
SINGLE AND DOUBLE SIDED SIGNAGE



Application	Single sided signage (wall or ceiling) for exterior ($t \geq -15^{\circ}\text{C}$) or interior use Double sided signage (ceiling) for exterior ($t \geq -15^{\circ}\text{C}$) or interior use
Material	Housing: stainless steel 304 Diffuser: impact-resistant polycarbonate
Dimensions	L x W x H in mm: 499 x 134 x 177 Plan N.: 7800
Self test	Gives a warning indication when the brightness under emergency conditions drops below 2 cd/m^2
Safety sign	Foil, viewing distance: 26 m Perfect evenly distributed illumination, conform to EN 1838



Dimensional sketches p 454



LED

KB – webref. SKB1005D

SINGLE OR DOUBLE SIDED SIGNAGE

Self contained luminaires

function	special function	temperature	mounting	NM/M	lamp type	order code
self test						EST+
single and double sided signage	-	-	surface	M	LED 2W	KB42/2P
	for exterior use	≥ -15°C	surface	M	LED 2W	KB42/2P
ETAP Safety Manager: self test EST+						ESM wired ESM wireless
single and double sided signage	-	-	surface	M	LED 2W	KB43/2P KB44/2P
	for exterior use	≥ -15°C	surface	M	LED 2W	KB43/2P0 KB44/2P0

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	lumen		order code
				AC	DC	
single and double sided signage	surface	230V AC/DC	LED 2W	45	45	KB4/2-230

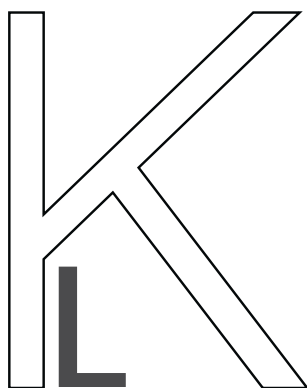
Pictogram

pictogram choice: see overview p 336

Accessories

decorative end pieces	KBH6
-----------------------	------





SURFACE LUMINAIRES FOR INCREASED VIEWING DISTANCE

single and double sided signage

→ p 334



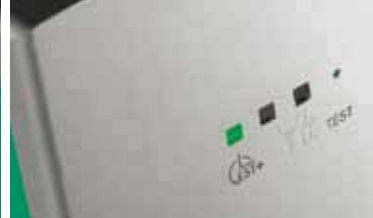
quadruple signage

→ p 334



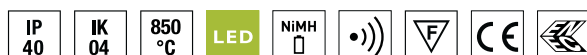
KL

SURFACE LUMINAIRES FOR INCREASED VIEWING DISTANCE



Application	Single and double sided signage (wall/ceiling) (KL7, plan N. 7900, and KL8, plan N. 7901) Quadruple signage (ceiling) (KL9, plan N. 7902)
Material	Housing: satin-anodised aluminium Safety sign KL7 - KL8: polymethyl metacrylate (PMMA) Cover KL9: polymethyl metacrylate (PMMA) Mounting bracket: sheet steel, powder painted in white (RAL9003)
Optic	Diffuser
Safety sign	KL7: screenprint, perfect evenly distributed illumination, conform to EN 1838 Pictogram height: 190 mm, viewing distance: 38 m KL8: screenprint, perfect evenly distributed illumination, conform to EN 1838 Pictogram height: 310 mm, viewing distance: 62 m KL9: Sticker, perfect evenly distributed illumination, conform to EN 1838 Pictogram height: 245 mm, viewing distance: 49 m

Dimensional sketches p 454





KL9 suspension – webref. SKL9001A2



KL parallel wall mounting – webref. SKL7002A3



KL right angle wall mounting – webref. SKL010A1

SINGLE AND DOUBLE SIDED SIGNAGE

Self contained luminaires

function	mounting	NM/M	lamp type	L x W x H mm	order code	
self test						
single and double sided signage	surface	M	LED 6W	420 x 94 x 210	KL742/6P	
	surface	M	LED 12W	640 x 94 x 330	KL842/12P	
ETAP Safety Manager: self test EST+						
single and double sided signage	surface	M	LED 6W	420 x 94 x 210	KL743/6P	KL744/6P
	surface	M	LED 12W	640 x 94 x 330	KL843/12P	KL844/12P

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	L x W x H mm	order code
single and double sided signage	surface	230V AC/DC	LED 6W	420 x 94 x 210	KL74/6-230
	surface	230V AC/DC	LED 12W	640 x 94 x 330	KL84/12-230

QUADRUPLE SIGNAGE

Self contained luminaires

function	mounting	NM/M	lamp type	L x W x H mm	order code	
self test						
single and double sided signage	surface	M	LED 6W	250 x 250 x 280	KL942/6P	
ETAP Safety Manager: self test EST+						
single and double sided signage	surface	M	LED 6W	250 x 250 x 280	KL943/6P	KL944/6P

Centrally supplied luminaires

function	mounting	emergency supply voltage	lamp type	L x W x H mm	order code
single and double sided signage	surface	230V AC/DC	LED 6W	250 x 250 x 280	KL94/6-230

Pictogram

pictogram choice: see overview p 336

Accessories

accessory parallel wall bracket (not for quadruple signage 250 x 250 cm)	suffix M5
accessory right angle wall bracket (not for quadruple signage 250 x 250 cm)	suffix M2
suspension set	suffix M3

PICTOGRAMS EMERGENCY LIGHTING

K1			K2			K3	K5			K6	K7 wall mounted
foil	plate		foil	foil for double sided cover		sticker	sticker	plate		plate	foil
single sided	single sided	double sided	single sided	single sided	double sided	single sided	single sided	single sided	double sided	signage	single sided

PICTOGRAMS FOR SAFETY SIGNAGE

	K1EG0	K1HG0E	K1HG0	K2EG0	K2HG0E	K2HG0	K3E202	K5EG0	K5HG0E	K5HG0	.. G0 *	K7EG0
	K1EG1	K1HG1E	K1HG1	K2EG1	K2HG1E	K2HG1	K3E201	K5EG1	K5HG1E	K5HG1	.. G1 *	K7EG1
	K1EG2	K1HG2E	K1HG1	K2EG2	K2HG2E	K2HG1	K3E200	K5EG2	K5HG2E	K5HG1	.. G2 *	K7EG2
	K1EJ0	K1HJ0E	K1HJ0	K2EJ0	K2HJ0E	K2HJ0	K3E206		K5HJ0E	K5HJ0	.. J0 *	K7EJ0
	K1EJ1	K1HJ1E	K1HJ1	K2EJ1	K2HJ1E	K2HJ1	K3E207		K5HJ1E	K5HJ1	.. J1 *	K7EJ1
	K1EJ2	K1HJ2E	K1HJ1	K2EJ2	K2HJ2E	K2HJ1	K3E208		K5HJ2E	K5HJ1	.. J2 *	K7EJ2
	K1EL0	K1HL0E	K1HL0	K2EL0	K2HL0E	K2HL0	K3EL0		K5HL0E	K5HL0	.. L0 *	K7EL0
	K1EL1	K1HL1E	K1HL1	K2EL1	K2HL1E	K2HL1	K3EL1		K5HL1E	K5HL1	.. L1 *	K7EL1
	K1EL2	K1HL2E	K1HL1	K2EL2	K2HL2E	K2HL1	K3EL2		K5HL2E	K5HL1	.. L2 *	K7EL2
	K1EQ0		K1HQ0	K2EQ0		K2HQ0			K5HQ0		.. Q0 *	K7EQ0
	K1ET0		K1HT0	K2ET0		K2HT0			K5HT0		.. T0 *	K7ET0
**	K1EZ0	K1HZ0E	K1HZ0	K2EZ0	K2HZ0E	K2HZ0	K3EZ0	K5EZ0	K5HZ0E	K5HZ0	.. Z0*	K7EZ0
**	K1EZ1	K1HZ1E	K1HZ1	K2EZ1	K2HZ1E	K2HZ1	K3EZ1	K5EZ1	K5HZ1E	K5HZ1	.. Z1*	K7EZ1
**	K1EZ2	K1HZ2E	K1HZ1	K2EZ2	K2HZ2E	K2HZ1	K3EZ2	K5EZ2	K5HZ2E	K5HZ1	.. Z2*	K7EZ2

* Add this pictogram code to K6 luminaire code

** Only available in Sweden

INFORMATIVE PICTOGRAMS



In addition to the standard range, ETAP can produce pictograms to your specification.
Contact your ETAP-adviser for more information.

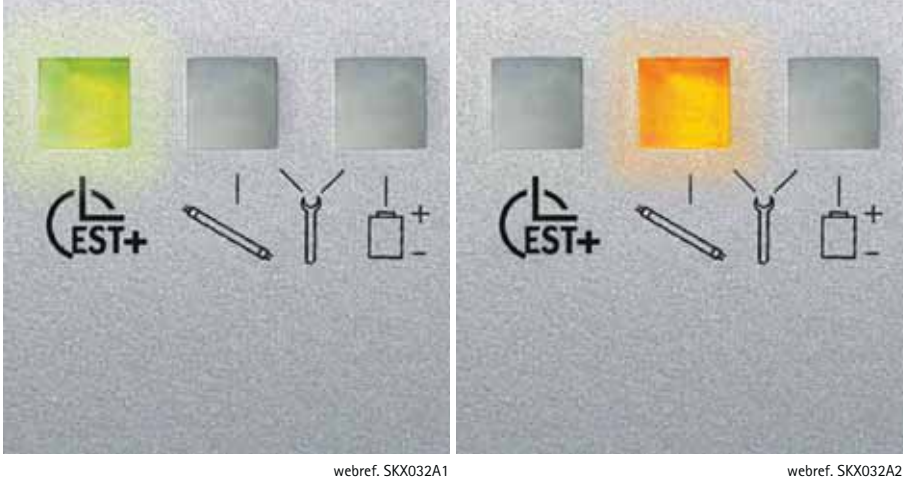
K7 ceiling mounted		K9				KB		KL 420 x 210 mm		KL 640 x 330 mm		KL 250 x 250 mm
foil	foil	plate for K9 maintained		plate for K9 non-maintained		foil		plate	plate	plate	plate	sticker
single sided	double sided	single sided	double sided	single sided	double sided	single sided	double sided	single sided	double sided	single sided	double sided	quadr. sided

K7HG0E	K7HG0	K9HG0E	K9HG0	K9HG0ES	K9HG0S	KBHG0E	KBHG0	KL7HG0E	KL7HG0	KL8HG0E	KL8HG0	KL9HG0E
K7HG1E	K7HG1	K9HG1E	K9HG1	K9HG1ES	K9HG1S	KBHG1E	KBHG1	KL7HG1E	KL7HG1	KL8HG1E	KL8HG1	
K7HG2E	K7HG1	K9HG2E	K9HG1	K9HG2ES	K9HG1S	KBHG2E	KBHG1	KL7HG2E	KL7HG1	KL8HG2E	KL8HG1	
K7HJ0E	K7HJ0	K9HJ0E	K9HJ0			KBHJ0E	KBHJ0					
K7HJ1E	K7HJ1	K9HJ1E	K9HJ1			KBHJ1E	KBHJ1					
K7HJ2E	K7HJ1	K9HJ2E	K9HJ1			KBHJ2E	KBHJ1					
K7HL0E	K7HL0	K9HL0E	K9HL0			KBHL0E	KBHL0	KL7HL0E	KL7HL0	KL8HL0E	KL8HL0	KL9HL0E
K7HL1E	K7HL1	K9HL1E	K9HL1			KBHL1E	KBHL1	KL7HL1E	KL7HL1	KL8HL1E	KL8HL1	
K7HL2E	K7HL1	K9HL2E	K9HL1			KBHL2E	KBHL1	KL7HL2E	KL7HL1	KL8HL2E	KL8HL1	
	K7HQ0		K9HQ0			KBHQ0E	KBHQ0					
	K7HT0		K9HT0			KBHT0E	KBHT0					
K7HZ0E	K7HZ0	K9HZ0E	K9HZ0	K9HZ0ES	K9HZ0S	KBHZ0E	KBHZ0	KL7HZ0E	KL7HZ0	KL8HZ0E	KL8HZ0	KL9HZ0E
K7HZ1E	K7HZ1	K9HZ1E	K9HZ1	K9HZ1ES	K9HZ1S	KBHZ1E	KBHZ1	KL7HZ1E	KL7HZ1	KL8HZ1E	KL8HZ1	
K7HZ2E	K7HZ1	K9HZ2E	K9HZ1	K9HZ2ES	K9HZ1S	KBHZ2E	KBHZ1	KL7HZ2E	KL7HZ1	KL8HZ2E	KL8HZ1	



EST

EUROPEAN SAFETY TEST

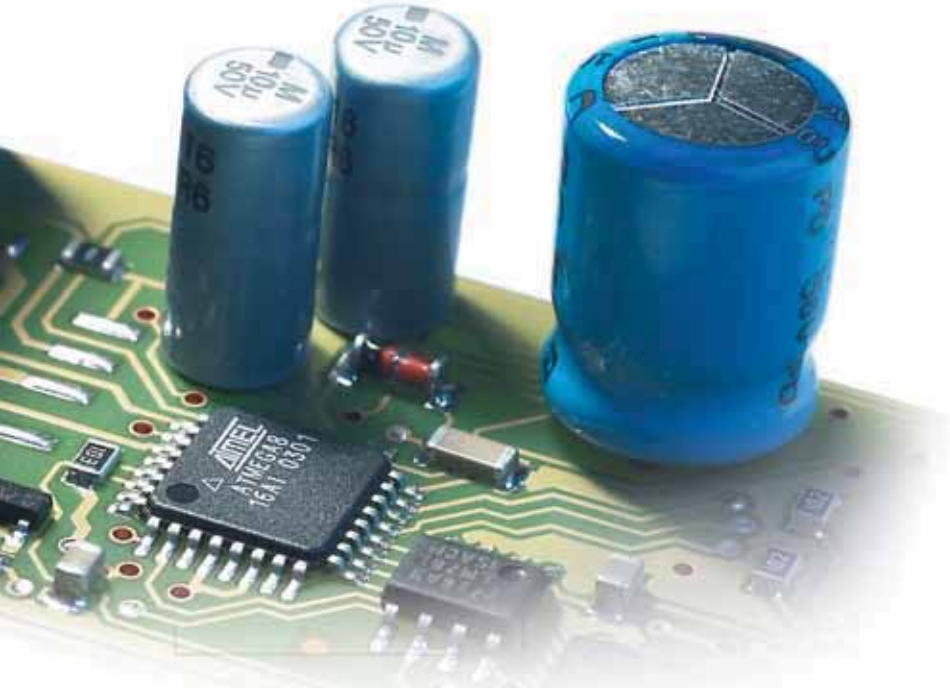


All ETAP luminaires are equipped with an automatic self-test system in accordance with the design standard for automatic testing devices, IEC 62034, and installation standard EN 50172. ETAP has developed a basic self-test, EST, and an extensive self-test, EST+. Both automatic self-tests feature a microprocessor with built-in quartz clock so that testing is carried out punctually at the set time.



Test	Test cycle at installation	Once, upon connection to mains voltage	Once, upon connection to mains voltage
	Functional test (function of the luminaire)	Monthly, 2 minutes On same weekday and time of installation to mains voltage	Weekly, 2 minutes At any time within the week after connection to mains voltage. Will then be repeated on same weekday and time
	Duration test (condition of batteries)	Yearly, NiCd complete discharge; NiMH during specified duration time On same weekday and time of installation to mains voltage	Quarterly, NiCd complete discharge; NiMH during specified duration time (ESM-luminaire*: always complete discharge) At any time within next 13 weeks, in the place of a functional test. Will then be repeated every 13 weeks on same weekday and time. To avoid that all luminaires discharge simultaneously. Test moment can be set manually (weekday and time) by means of the test push-button Testmoment kan manueel ingesteld worden (weekdag en uur) d.m.v. de testdrukknop
Indication	Passed/fault indication via 2 LEDs; last test OK, fault		Specific indication by means of 3 LEDs; last test OK; lamp fault; battery fault; electronic fault; BUS connection fault or BUS power supply fault ESM*), software communication fault (ESM*)
Extra function			Continues to light for 2 minutes when mains voltage is restored Start duration test by means of test push-button

* ESM: ETAP Safety Manager - p 341





REGIE DER GEBOUWEN (VICTOR HORTA BUILDING), BRUSSELS – BELGIUM

webref. SA021AA2

ETAP SAFETY MANAGER

CENTRAL MANAGING AND CONTROL SYSTEMS



APPLICATION

Application Program for monitoring, control, reporting and maintenance of self-contained emergency lighting systems with:

- ETAP self-contained emergency lighting luminaires
- Luminaires with K9 LED module
- Luminaires with emergency unit*
- ETAP centrally supplied luminaires connected to EBS (ETAP Battery System)

COMPONENTS

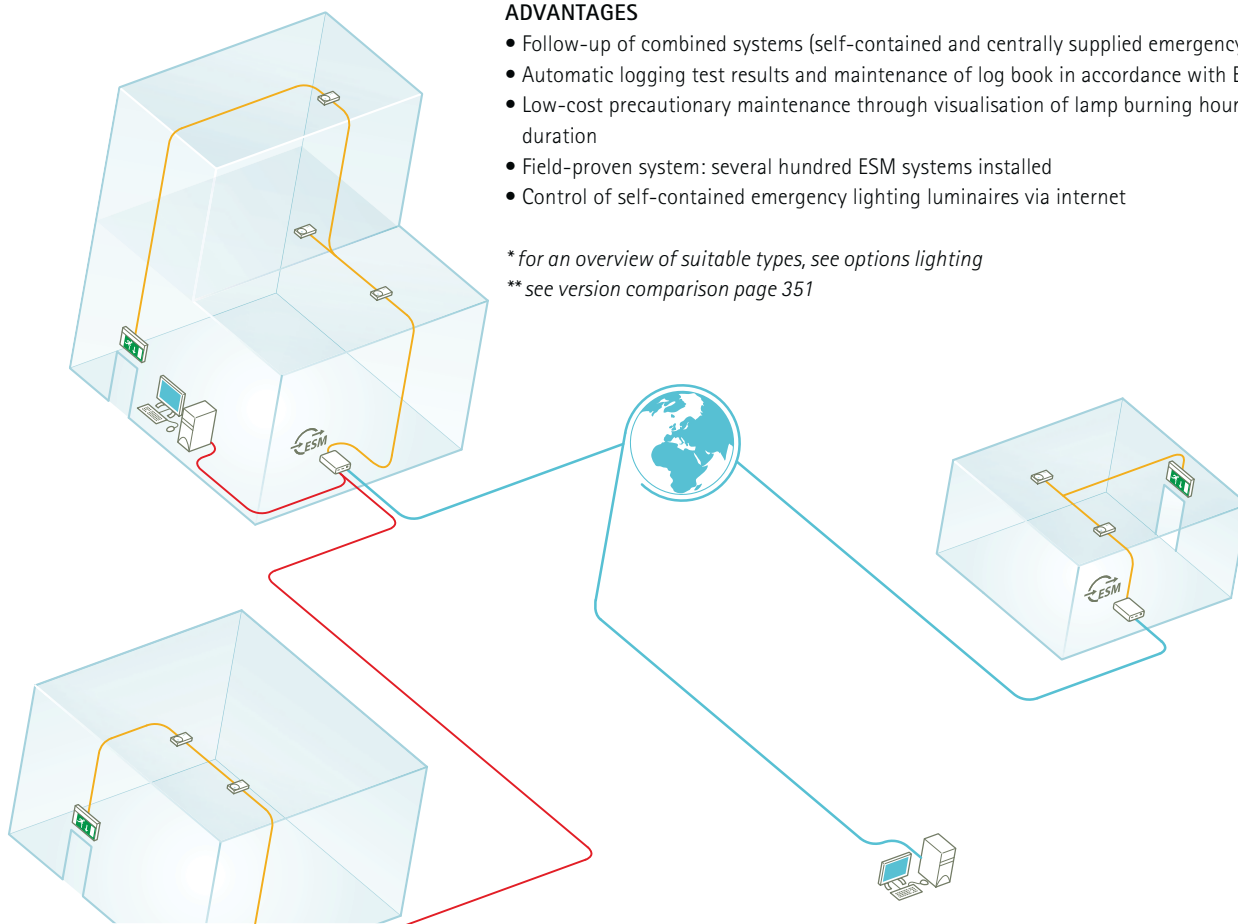
- Emergency lighting with wired or wireless ESM communication
- EBS systems and luminaires
- ESM web controller (for ESMweb™) or a PC with ESM software (for ESM windows based)**
- Wired network
- Optional:
 - Emergency Unit Gateway (EUG) for communication with lighting luminaires fitted with an emergency unit
 - coordinator for communication with emergency lighting luminaires equipped for wireless communication
 - COM server for multi-building systems connected to the local network (LAN)
 - ESM Remote Access for access to the ESM software of each PC connected to the company network
 - possibility of connecting an RS 232 driver (line driver) with cable for multibuilding systems not connected to a local network
 - volt-free contact module for transmission of errors to central control panel or building management system
 - ESM - EBS coupling module for the communication with EBS via LAN or USB

ADVANTAGES

- Follow-up of combined systems (self-contained and centrally supplied emergency lighting systems)
- Automatic logging test results and maintenance of log book in accordance with EN 50172
- Low-cost precautionary maintenance through visualisation of lamp burning hours and battery duration
- Field-proven system: several hundred ESM systems installed
- Control of self-contained emergency lighting luminaires via internet

*for an overview of suitable types, see options lighting

**see version comparison page 351





Typsa, Madrid - Spain - webref. SUT1002J

ESM SYSTEM FEATURES

LUMINAIRE – MESSAGES

- Luminaire errors: lamp, battery, electronics
- Network problem: BUS communication or radio communication problem
- Luminaire: identification data of self-contained luminaires

SOFTWARE – COMMANDS (INDIVIDUAL / GROUP / INSTALLATION)

- Remote switching of the maintained lamp (manual/periodic automatic)
- Adjustable test moment
- Search function
- Activate/deactivate rest mode (only for wired)
- Manual test function

SOFTWARE – OVERVIEW

- System status:
 - current operating mode (standby/test/rest/emergency)
 - lamp status, test settings (moment/cycle)
 - lamp burning hours (only self-contained luminaries)
 - battery duration (luminaires via Emergency Unit Gateway and EBS systems only indicate whether the specified duration has been met)
- Error messages: lamp, battery, electronics, network communication error
- Maintenance: maintenance orders and information on luminaire, lamp and battery
- Statistics: status report, history
- System reports: installation report, test settings, status report, maintenance report (in accordance with EN 50172)

SYSTEM – EXTERNAL CONNECTIONS

- Automatic export of status information (ASCII)
- Alarm signalling via potential free contact module
- Automatic fault signalling via e-mail
- Access via a PC with an internet or network connection



ESM web controller – webref. SKX029A1

ESMweb™ SYSTEM

1. ESM emergency luminaires

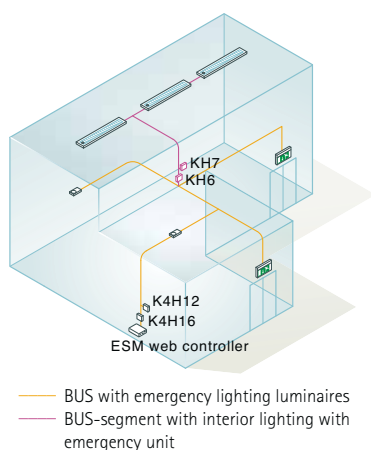
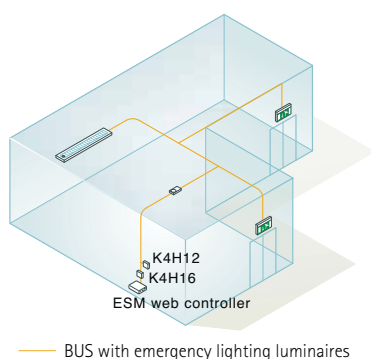
K1, K2, K3, K5*, K6, K7, K9*, KB, KL self-contained luminaires see productpages

ETAP luminaires with K9 LED module* consult ETAP
ETAP luminaires with emergency unit*

* recessed luminaires not wireless

2. ESM web controller (maximum 1 BUS per web controller)

ESM web controller	Material	aluminium
	Dimensions W x D x H	160 x 120 x 30
	Dimensions connected W x D x H	350 x 120 x 30
	Mounting	DIN rail
	Hardware	'solid state' memory / power supply: 230V, 0,7A max / Possible connections: Ethernet connector 10/100 LAN (RJ45), BUS-adapter connection
	Amount of luminaires:	
	up to 100	KH16-100
	up to 200	KH16-200
	up to 300	KH16-300
	up to 400	KH16-400
	up to 500	KH16-500
Licence extra luminaires	per 50	KH-50



3. ESM Network

a. Wired ESM network with emergency lighting luminaires (maximum 500 luminaires per BUS)

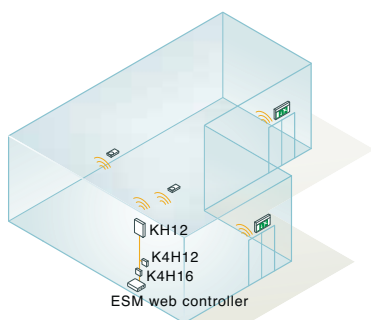
BUS-power supply	dimensions (w x h x d in mm): 90 x 60 x 75 / DIN-rail mounting reach: maximum distance between furthest points: 0.66 km with 0.5 mm² wire; 1.8 km with 1.5 mm² wire; 2.7 km with 2.5 mm² wire / resistance BUS power supply to utmost terminals: ≤ 50 Ohm / power: 3 W	K4H12
BUS-adapter	dimensions (w x h x d in mm): 90 x 60 x 75 / DIN-rail mounting / reach: in accordance with RS232 specifications / PC connection: RS232 COM port / power: 1 W	K4H16
BUS network	type: 2-core twisted pair (0.5 – 2.5 mm²) / total length: maximum 6 km (maximum capacity: 1 µF) / topology: free	not included

b. Wired ESM network for lighting luminaires with emergency units (maximum 64 luminaires per segment)

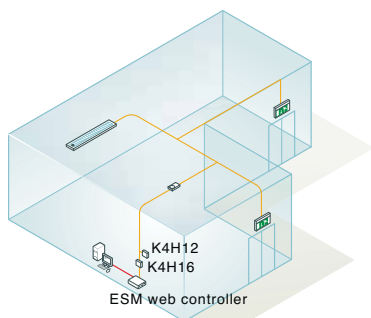
EUG-power supply	dimensions (w x h x d in mm): 90 x 60 x 75 / DIN-rail mounting / maximum reach: 200 m / power: 6 W	KH7
Emergency Unit Gateway (EUG)	dimensions (w x h x d in mm): 90 x 60 x 75 / DIN-rail mounting / power: 3 W	KH6
Wiring	type: 2-core (0.5 - 1.5 mm²) / total length: maximum 300 m with 1.5 mm² ; maximum resistance 8 Ohm	not included
Emergency unit	luminaires with emergency unit	consult ETAP



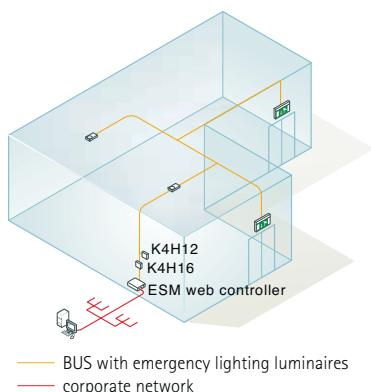
webref. SKX029A3



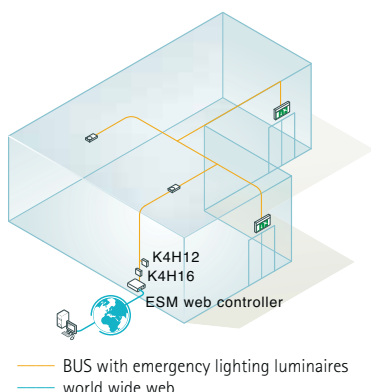
•)) wireless network with emergency lighting luminaires



— BUS with emergency lighting luminaires
— network cable



— BUS with emergency lighting luminaires
— corporate network



— BUS with emergency lighting luminaires
— world wide web

c. Wireless ESM network with emergency lighting luminaires

Coordinator	dimensions (w x h x d in mm): 160 x 130 x 60 / 2.4 GHz / 16 channels / communication based on IEEE 802.15.4 / transmission power: 1 mW / to connect to the ESM BUS	KH12
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4. Connection with ESM web controller

PC	with network connection and web browser	not included
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a. Directly on the PC

Network cable	crossed network cable	not included
---------------	-----------------------	--------------

b. Via corporate network

Corporate Network	Connection to ESM web controller via network cable	not included
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c. Via Internet

World Wide Web	Connection to ESM web controller via network cable	not included
----------------	--	--------------

Centralised monitoring and remote control with ESM – webref. SKX023A3

ESM windows based SYSTEEM

1. ESM self-contained emergency luminaires

K1, K2, K3, K5*, K6, K7, K9*, KB, KL self contained luminaires	see product pages
K1, K2, K3, K5, K6, K7, K9, KB, KL centrally supplied luminaires with EBS systems: Static, Dynamic, Dynamic Light, Group	see product pages
ETAP luminaires with LED module*	consult ETAP
ETAP luminaires with emergency unit*	

* recessed mounting versions not wireless

2. ETAP Safety Manager software

	Delivered on CD-ROM / assistance with set-up and start-up of the installation / protection on several password levels / integrated manual in English (incl. RS232 cable 8m)	KH3-E
PC	processor: minimum Pentium II – 266 MHz / OS: Windows® 2000 or more recent / RAM: minimum 64 MB / HD: minimum 400 MB / video RAM: S-VGA – 1 MB / screen: VGA 640x480 / mouse / CD reader / RS232 COM port (minimum 1) / Windows® XP and 2000: login as administrator required for installation; login as main user sufficient for use	not included

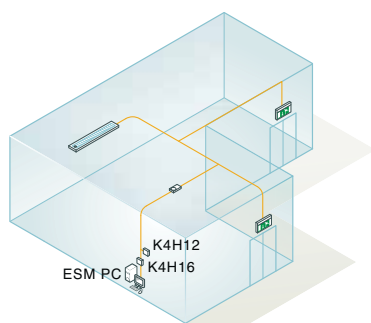
3. ESM Network

(maximum 8000 luminaires, maximum 12 COM ports per system)

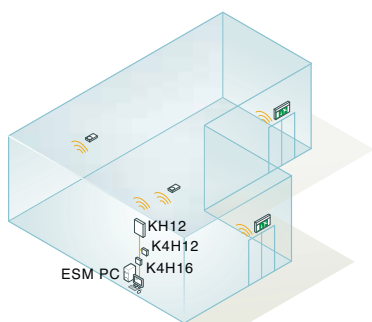
a. Wired BUS network with emergency lighting luminaires

(maximum 500 luminaires per BUS)

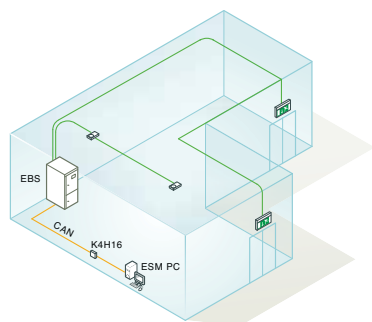
BUS-power supply	afmetingen (b x h x d in mm): 90 x 60 x 75 / DIN-rail montage bereik: maximum afstand tot uiterste aansluitpunt : 0,66 km bij 0,5 mm ² -draad; 1,8 km bij 1,5 mm ² -draad; 2,7 km bij 2,5 mm ² -draad / weerstand BUS-voeding tot uiterste aansluitpunt: ≤ 50 Ohm / vermogen: 3 W	K4H12
BUS-adapter	dimensions (w x h x d in mm): 90 x 60 x 75 / DIN-rail mounting / reach: in accordance with RS232 specifications / PC connection: RS232 COM port / power: 1 W	K4H16
BUS network	type: 2-core twisted pair (0.5 – 2.5 mm ²) / total length: maximum 6 km (maximum capacity: 1 µF) / topology: free	not included



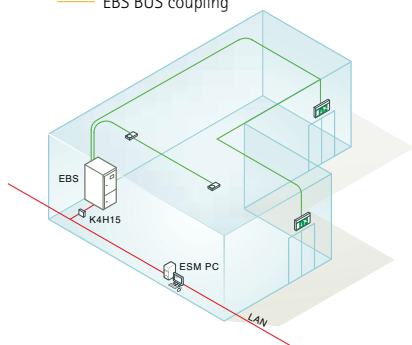
— BUS with emergency lighting luminaires



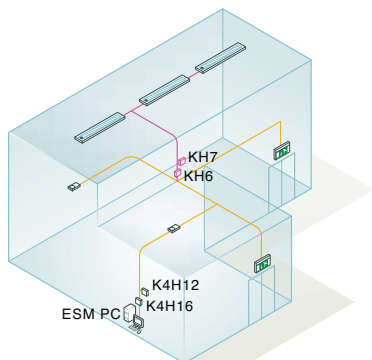
- wireless network with emergency lighting luminaires



- EBS circuit
- EBS BUS coupling



- EBS circuit
- corporate network



- BUS with emergency lighting luminaires
- BUS-segment with interior lighting with emergency unit

b. Wireless network with emergency lighting luminaires

Coordinator	dimensions (w x h x d in mm): 160 x 130 x 60 / 2.4 GHz / 16 channels / communication based on IEEE 802.15.4 / transmission power: 1 mW / to connect to the ESM BUS	KH12
-------------	--	-------------

c. Central battery system (EBS) (not for Superior or Static)

Direct connection

ESM-EBS coupling module via USB	for coupling an EBS (ETAP Battery system) centralised system via USB (hardware, software, users-ID)	KH14
	wiring CAN BUS, 3-core, max. 100 m	not included

Connection via LAN network

ESM-EBS coupling module via LAN	for coupling an EBS centralised system via LAN (hardware, software, user-ID)	KH15
	wiring corporate network	not included

d. BUS segment for interior lighting with emergency units (maximum 64 luminaires per segment)

BUS power supply	dimensions (w x h x d in mm): 90 x 60 x 75 / DIN-rail mounting / maximum reach: 200 m / power: 6 W	KH7
Emergency Unit Gateway (EUG)	dimensions (w x h x d in mm): 90 x 60 x 75 / DIN-rail mounting / power: 3 W	KH6
Wiring	type: 2-core (0.5 -1.5 mm ²) / total length: maximum 300 m with 1.5 mm ² ; maximum resistance 8 Ohm	not included
Emergency unit	luminaires with emergency unit	consult ETAP

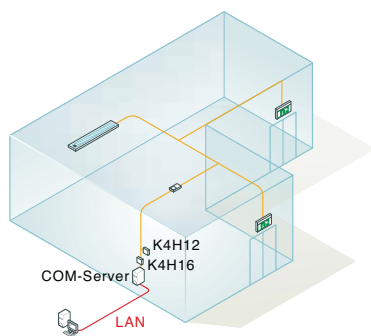
4. Connection with ESM network in other buildings

a. Via a local network (LAN)

(1 PC port per LAN connection)

EXTRA COMPONENTS PER ANNEX BUILDING

COM-server	ESM PC and COM server driver to be configured by the local network (LAN) administrator	KH11
Local Area Network (LAN)	ethernet	not included



BUS-network

— BUS with emergency lighting luminaires
— Local network (LAN)

b. Over a specific Fixed Line via an RS232 driver (line driver)

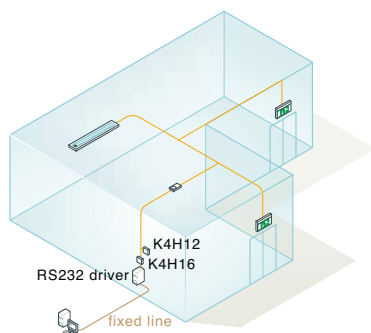
(for buildings not equipped with a LAN connection)

EXTRA COMPONENTS – MAIN BUILDING

RS232 driver	depending on requirements of RS232 driver / 1 per annex building	consult ETAP
--------------	--	--------------

EXTRA COMPONENTS PER ANNEX BUILDING

RS232 driver	depending on requirements	consult ETAP
Wiring	depending on requirements of RS232 driver (line driver)	not included



BUS-network

— BUS with emergency lighting luminaires
— Fixed line via RS232 line driver





With ESMweb™, luminaires can easily be located on images or maps of your building – webref. SKX029A5

Version comparison: ESMweb™ versus ESM windows based

	ESMweb™	ESM windows based
Maximum number of luminaires per system	500	8000
Access		
Local	x	x
Via company network	x	x
Via Internet	x	
User interface		
Navigation with images and / or plans	x	
Navigation via tree structure	x	x
Software platform		
Windows® 2000 to Windows® Vista		x
Web browser: Explorer, Firefox, Opera, Safari or Google Chrome	x	
Follow-up		
- Wired autonomous ETAP luminaires	x	x
- Wireless autonomous ETAP luminaires	x	x
- K9 module	x	x
- Emergency units	x	x
- Central battery for luminaires + EBS systems		x
Reporting		
In accordance with EN50172	x	x
ESM network		
Direct connection to the luminaires	x	x
Connection to a local network (LAN) via a COM server		x
Connection via a landline (RS232 driver)	x	x
Connection with a building management system		
Potential-free contact		x
Saved daily as an export file in ASCII-format	x	x



NETWORKS FOR BUILDING MANAGEMENT

Also ETAP emergency lighting can, in addition to other applications, be connected to such networks. Experience has taught us that this invariably involves customised solutions. For these projects we will be happy to work out the best possible solution. Consult your ETAP adviser.

CONNECTION TO ESM WEB CONTROLLER

1) VOLT-FREE CONTACT FOR ESM

This solution allows the status of the ESM installation to be displayed using 4 open/closed contacts

The following error situations are displayed:

- 1 or more luminaires have an error message;
- the communication between ESM and 1 or more luminaires has been broken;
- 1 or more luminaires is in emergency mode;
- the communication with ESM is broken.

PVC power supply	dimensions (w x h x d in mm): 27 x 75 x 100 / DIN-rail mounting / power: < 5W	KH8
PVC output module	dimensions (w x h x d in mm): 72 x 122 x 42 / DIN-rail mounting /	KH9
ESM PVC module	dimensions (w x h x d in mm): 72 x 122 x 42 / DIN-rail mounting / PC connection: RS232 COM port	KH10

2) ASCII EXPORT FILE

Every day, the ESM web controller writes a detailed file that serves as input for processing in the building management system.

LON®

Local Operating Network (LON®) is a universal protocol for BUS networks. In an LON® network, the building management system communicates with the connected equipment through LON®.

Also ETAP emergency lighting can, in addition to other applications, be connected to a LON® network. These self-contained ETAP emergency lighting luminaires have EST+ test functionality and an integrated LON® communication module. LON® allows you to give commands to and retrieve information from the luminaires.

1) ETAP LUMINAIRES WITH LON® COMMUNICATION MODULE

K1, K2, K3, K5, K6, K7, K9, KB, KL

consult ETAP

2) SOFTWARE

integration of the emergency lighting luminaires in the building management system is done by the LON® system integrator

3) BUS NETWORK

uses the BUS network of the LON® building management system



Hempelmann Kassel, Kassel/Waldau – Germany (ESM system) – webref. SKX030A1

Central Station, Antwerp – Belgium (LON® system) – webref. SKX030C1

SYSTEM FUNCTION COMPARISON

		ESM	LON®	DALI
Luminaire – messages	Errors: lamp, battery, electronics, network problems	x	●	●
	Identification data	x	●	
	Display of correct communication with communication LEDs	x		●
Software – commands	Switching of maintained lamp	x	●	●
	Adjustable test moment	x	●	●
	Activate/deactivate rest mode	x	●○	●
	Manual test function, search function	x	●	●
Software – overview	Error messages: lamp, battery, electronics, network communication error	x	●	●
	Statistics: status report, history	x	●	●
	System status: operating mode (standby / test / rest / emergency), lamp status, test settings (moment / cycle), lamp burning hours, battery duration	x	●	●
	System reports: installation report, test settings, status report, maintenance report	x	●	●
	Maintenance: maintenance orders and information on luminaire, lamp and battery	x		●

x standard

● to be implemented by system integrator

○ additional power supply and 4-wire bus required





webref. SKC007D2



webref. SKC007D1



ETAP CENTRAL BATTERY SYSTEM EBS

Central emergency lighting can offer a suitable solution in specific situations. Think, for example, of the renovation of existing installations, industrial environments with high light levels, or architectural buildings where the escape route and anti-panic lighting is fully integrated into the lighting system. A central battery may also be indicated where the emergency lighting is not readily accessible or where evacuation takes more time and a long duration is desirable and surroundings with strongly varying temperatures..

Emergency power supply devices

- Electronics cabinet
- Charging and charge preservation device
- Switching gear for maintained and non-maintained lighting
- Control and monitoring device

Central battery

Luminaires

In all ETAP Emergency Lighting series (K1, K2, K3, K5, K6, K7, K9, KB, KL) you can find versions for central power supply. These luminaires can have the option to be equipped with a module for central control. With LED luminaires it provides monitoring of the electronics, with luminaires with another lamp it provides control of the light source and the electronics.

For detailed information please contact your ETAP expert.



EBS Static – webref. SKC001C1



EBS Group – webref. SKC002B6



EBS Dynamic – webref. SKC003D1

PRODUCT OVERVIEW CENTRAL BATTERY SYSTEMS

EBS STATIC

- Fully automatic, processor controlled monitoring system
- 19-inch modular technique
- Steel plate free-standing cabinet
- Freely programmable for maintained or non-maintained mode
- Individual luminaire or circuit monitoring
- Central monitoring, also for substations
- Free programming of all system and customer data possible via PC
- Integrated monitoring book (according to EN 50172) for tests and events over a period of more than 2 years
- Individual luminaire monitoring with location indicated in plain text
- Internal and external bus system
- Automatic hardware detection, also for retrofitted series connections at the end of the electrical circuit

EBS GROUP

- Fully automatic, processor controlled monitoring system
- 19-inch mounting technique
- Steel plate free-standing cabinet
- Individually switchable output circuits with free programming for maintained and non-maintained mode, switched maintained light and stairwell lighting circuit
- Free programming of all system and customer data possible via PC
- Mixed operation of all types of system modes within one circuit (option)
- Built-in freely selectable individual luminaire or circuit monitoring
- Integrated monitoring book (according to EN 50172) for tests and events over a period of more than 2 years
- Individual luminaire monitoring with location indication in plain text

EBS DYNAMIC

- Fully automatic, processor controlled monitoring system
- 19" mounting technique on swivel frame
- Steel plate free-standing cabinet with transparent door
- Individually switchable output circuits with free programming for maintained and non-maintained mode, switched maintained light and stairwell lighting circuit (option)
- Built-in freely selectable individual luminaire or circuit monitoring

SELECTION TABLE

	EBS Static	EBS Group
Connecting capacity	unlimited	1500 W / 1 h, 500 W / 3 h
Number of output circuits	unlimited	4 / 8 / 12 / 16 / 20
Subdistributor	possible	-
DC voltage ¹	24 V / 216 V	216 V
Mounting of series connections for the lighting circuit	-	modular module
Output circuits	fixed wired (maintained/non-maintained)	programmable
FLEX technology ²	-	optional
Circuit monitoring	included	included
Individual luminaire monitoring	optional ³	included ³
Visualisation	-	optional
Device connection	-	-
Availability	on demand	from stock

¹ other voltages on demand ² mixed operation in the output circuit ³ monitoring module in luminaires required



EBS Superior – webref. SKC005C1

- Central monitoring, also for substations
- Free programming of all system and customer data possible via PC
- Mixed operation of all types of system modes within one circuit
- Internal and external bus system
- Integrated monitoring book (according to EN 50172) for tests and events over a period of more than 2 years
- Automatic hardware detection, also for retrofitted series connections at the end of the electrical circuit

EBS DYNAMIC LIGHT

- Fully automatic, processor controlled monitoring system
- 19" mounting technique
- Steel plate free-standing cabinet with or without control panel cover
- Individually switchable output circuits with free programming for maintained and non-maintained lighting, switched maintained light and stairwell lighting
- Built-in freely selectable individual luminaire or circuit monitoring
- Free programming of all system and customer data possible via PC
- Integrated monitoring book (according to EN 50172) for tests and events over a period of more than 2 years
- Individual luminaire monitoring with location indication in plain text

EBS SUPERIOR

- Fully automatic, processor controlled monitoring system
- Modular technique on DIN rail
- Steel plate free-standing cabinet
- Compactly structured central unit and substations
- Programming of each individual luminaire via the master unit
- Mixed operation of all types of system modes within one circuit (option)
- Freely selectable power source (battery, emergency power supply, 2nd network)
- Individual luminaire monitoring for DC and AC mains
- Built-in freely selectable individual luminaire or circuit monitoring
- Free programming of all system and customer data possible via PC
- Single-wire technique for subdistributors
- High level of reliability through use of intelligent substations with submaster for independent operation
- Integrated monitoring book (according to EN 50172) for tests and events over a period of more than 2 years
- Remote maintenance via Internet or telephone
- Luminaire monitoring with location indication in plain text

EBS Dynamic	EBS Dynamic Light	EBS Superior
unlimited	21.000 W / 1 h, 7.000 W / 3 h	unlimited
unlimited	20 / 32 / 44	unlimited
possible	-	possible
216 V	216 V	216 V
modular module	modular module	DIN-rail
programmable	programmable	programmable
optional	-	optional
included	included	included
included ¹	included ¹	included ¹
optional	optional	optional
included	-	included
on demand	from stock	on demand



EBS Static – webref. SKC001C1



EBS Group – webref. SKC002B6



EBS Dynamic – webref. SKC003D1

EBS SYSTEM CHARACTERISTICS AND STRUCTURE

EBS STATIC, EBS GROUP, EBS DYNAMIC, EBS DYNAMIC LIGHT

Control	central
Luminaire switching capability	per circuit
Back-up power supply	battery
Location of back-up power supply	near the control unit
Remote maintenance	-
Communication with GBS	LON®
Subdistributor cabling	two-wire technique

* only to be used in combination with electronic ballast



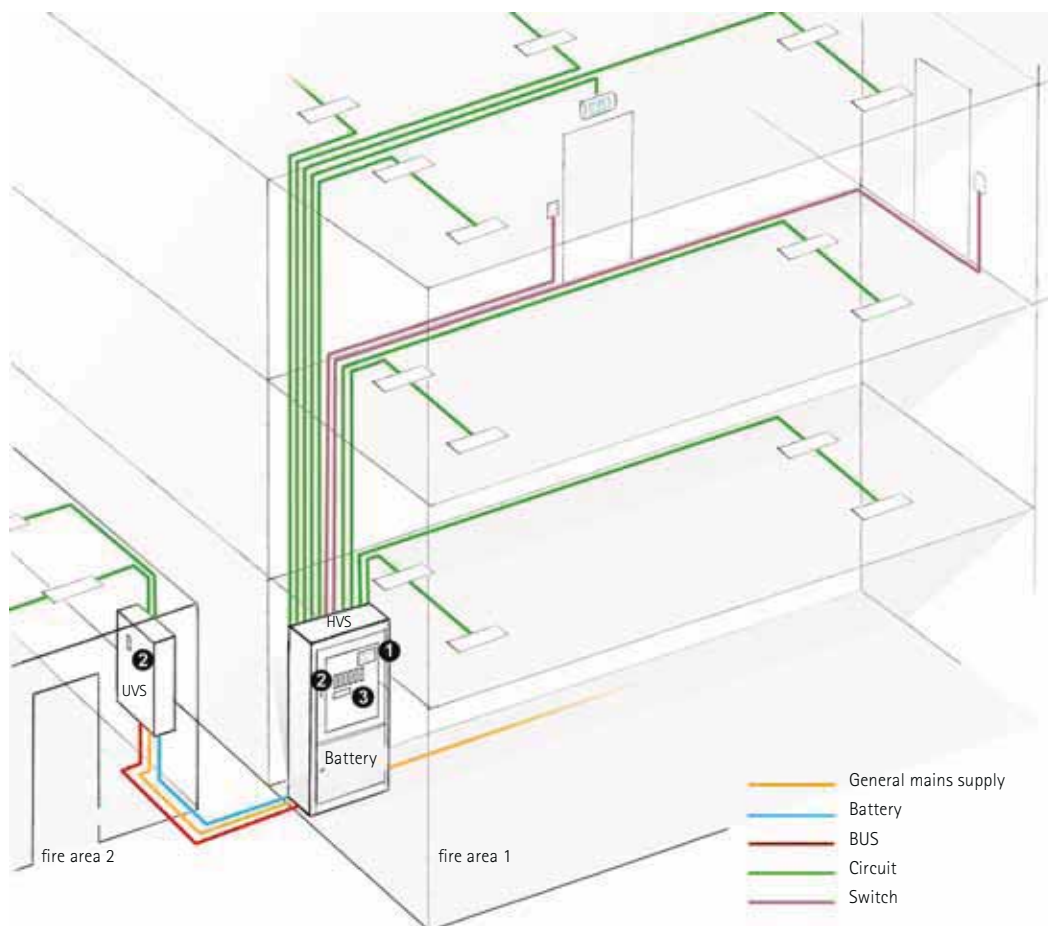
EBS control panel | 1



KCUE4/220 Circuit switching module | 2



KCLSM Luminaire switching module | 3



EBS MODULE* FOR CONTROL OF STAND-ALONE LUMINAIRES

TYPE	KCADB01	KCFLEX1
To be used with	Static, Dynamic, Dynamic Light, Group	Static, Dynamic, Dynamic Light, Group
Functionality	luminaire control	luminaire control and flex technology (mixed operation in 1 circuit)
Address setting	rotary coding switch	rotary coding switch
Max. number of luminaires per circuit	16	16
Switchable	-	with integrated switching relay
Voltage	230 V / 24 V	230 V
Order code (all ETAP series)	luminaire code + C1	luminaire code + C2

* only to be used in combination with electronic ballast



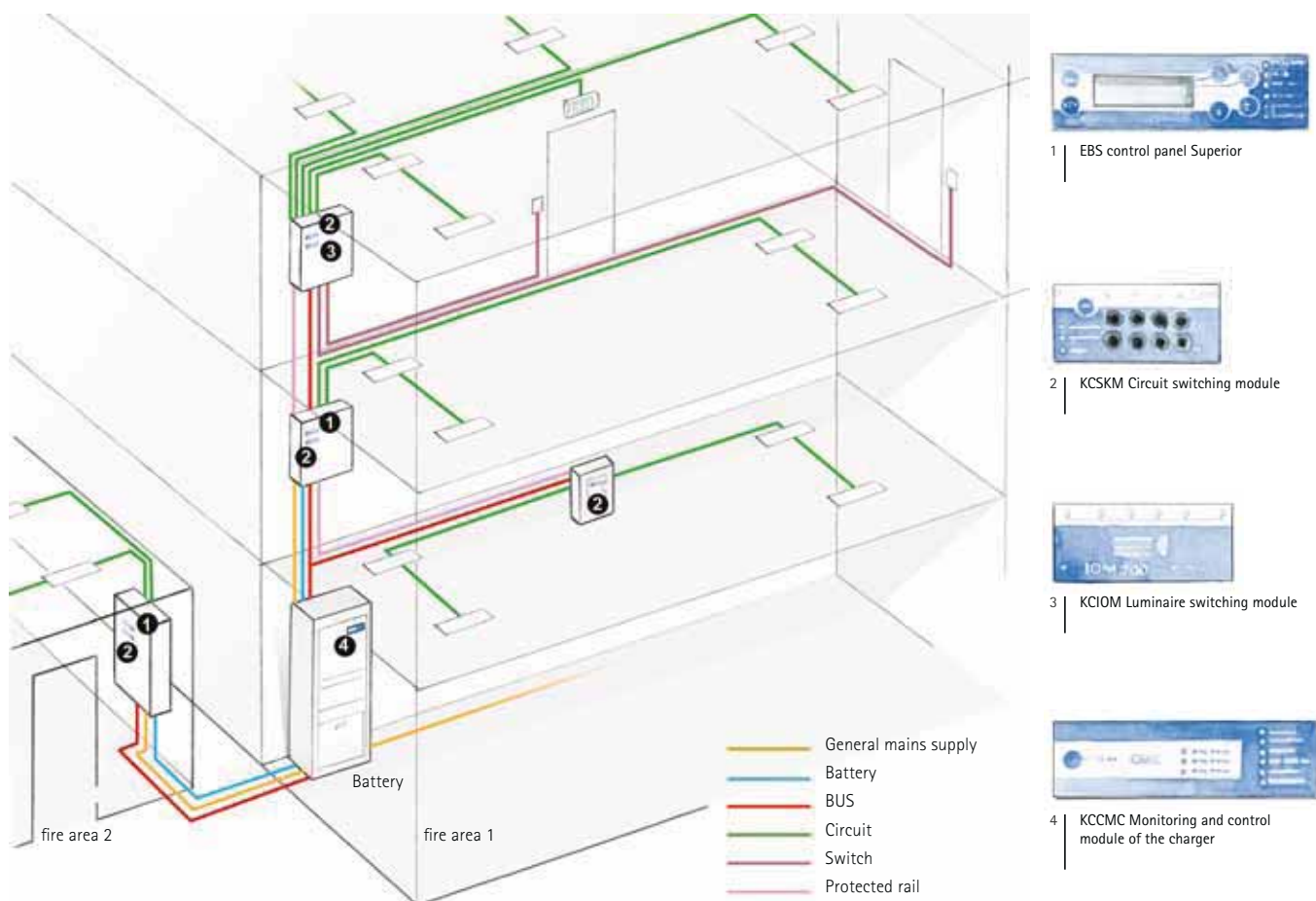
EBS Dynamic Light - webref. SKC004B1



EBS Superior - webref. SKC005C1

EBS SUPERIOR

decentralised
stand-alone luminaires
battery, emergency generating set, 2nd mains supply
independent of control unit
via telephone or Internet
LON® or EIB®
single-wire technique



KCLU1

Superior

luminaire control

rotary coding switch

20

-

230 V

upon request

KCFLEX2

Superior

luminaire control and flex technology
(mixed operation in 1 circuit)

rotary coding switch

20

with integrated switching relay

230 V

upon request

KCFLEX3

Superior

luminaire control and flex technology
(mixed operation in 1 circuit)

rotary coding switch or automatic addressing

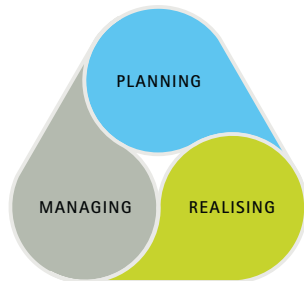
20

for EBS control panel Superior

230 V

upon request

SERVICES



ETAP offers services to ensure carefree commissioning, use and maintenance of its emergency lighting systems. In addition, ETAP provides services to ensure the smooth operation of your emergency lighting system, if desired in cooperation with your technicians. If necessary, luminaires can be swiftly delivered or replaced, so that safety is ensured at all times.

EMERGENCY LIGHTING INSTALLATIONS

Type	Description	Code
Advice	A reliable safety plan is vital for all buildings. In joint consultation with our ETAP specialists, an emergency lighting plan can be drawn up for your building in accordance with the applicable standards and fire specifications. This plan comprises the escape routes, a calculation of the numbers you need, all drawn in AutoCAD on your construction plan.	consult ETAP



ETAP SAFETY MANAGER

Type	Description	Code
Commissioning	To ensure an efficient and easy installation, the necessary information is provided to the installer prior to installation. An ETAP technician will then commission the ESM system on site and instruct the end user. <i>This service does not include the ESM software and hardware, the installation and cabling of the ESM installation.</i>	consult ETAP
Support and backup	During office hours ESM telephone support is provided. Questions or problems can be quickly solved because ETAP has a copy of the customer's ESM database. In case of problems with the hardware or software, it can be installed again. <i>For this service to be available, the ESM installation should have an internet connection.</i>	consult ETAP



ETAP BATTERY SYSTEM

Type	Description	Code
Commissioning	Commissioning includes configuration of the complete EBS system (circuits, testing scenarios ...), set up of the EBS control software and / or connection to the ESM system. <i>The service does not include installation and connection of the EBS system.</i>	consult ETAP
Maintenance	A yearly maintenance in line with the EN50172 requirements. This includes amongst others control of the batteries, circuit and discharge currents, full or partial simulations of the emergency mode and control of the ventilation system.	consult ETAP





webref. SKX031A1

LUMINAIRES



Type	Description
Quick additional delivery	In case of a shortage of a few luminaires during the installation, up to 10% of the original order quantity can be delivered quickly.
Quick replacement	Through an RMA (Return of Materials Authorisation) procedure a replacement of the luminaire is requested to ETAP, who provides a electronics interior, functionally equivalent to the defect one. Upon receipt of the internal part, you can install it in the luminaire and return the defective part to ETAP. The normal warranty conditions apply. <i>This service is available only for the electronic part of standard luminaires manufactured after 01//10/08. ETAP guarantees this service up till 1 year after end of life of the product. The defective internal parts must be returned within 1 month after receipt of the replacement part.</i>



For the 2 services above, you have following delivery options:

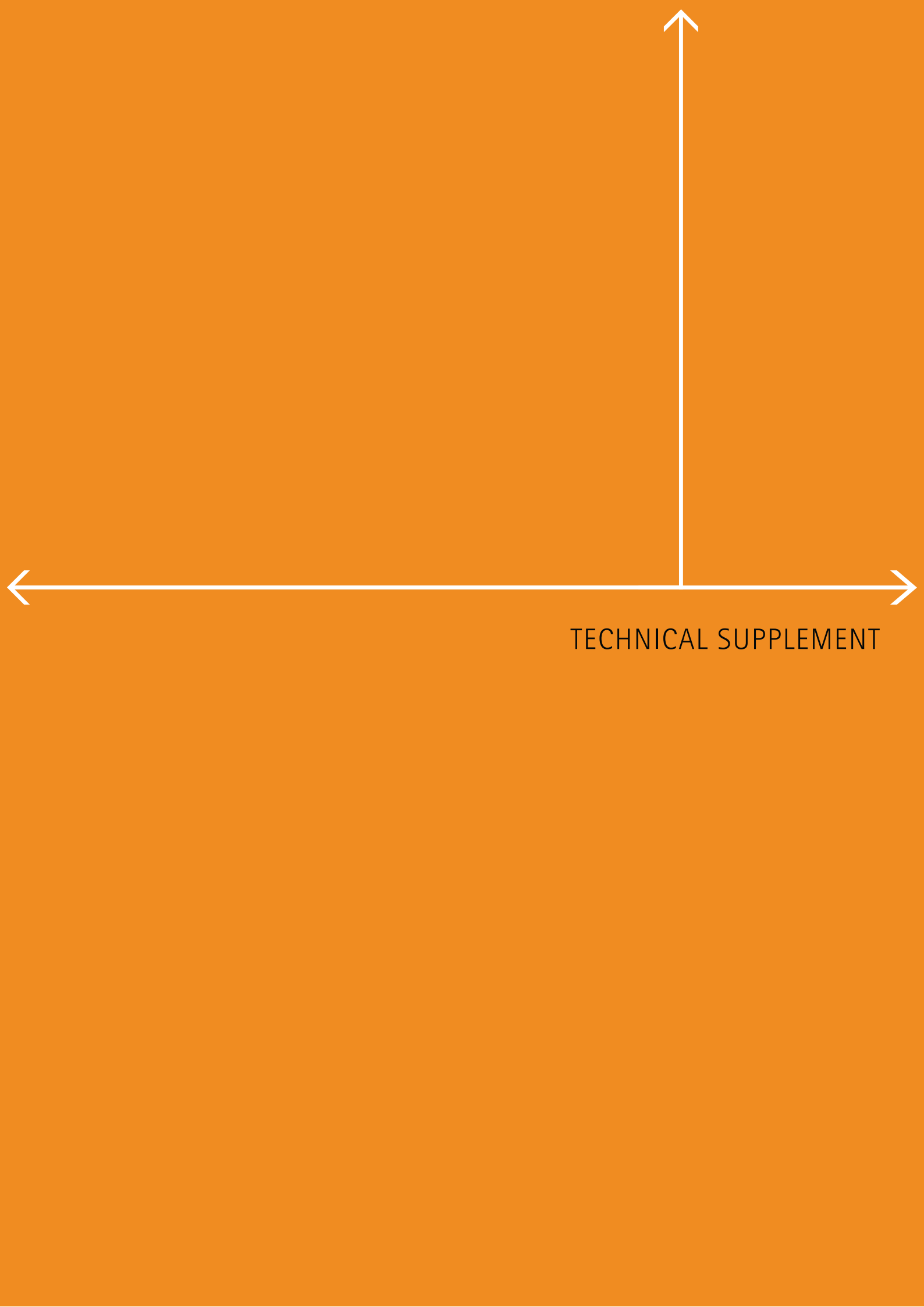
Express	The required material is available at the your premises within maximum 5 working days after RMA or order confirmation. Courier costs apply.
Speed	The required material is available at the your premises within maximum 10 working days after RMA or order confirmation.

INSTALLATION

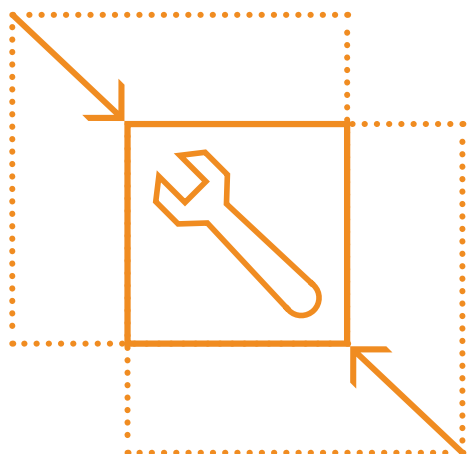


Type	Description
Maintenance	Upon request and if desired in consultation with your home installer, ETAP can provide a tailored periodic maintenance service for your system. All functional system parts are then inspected and maintained in accordance with the relevant standards. <i>Maintenance is limited to products supplied by ETAP.</i>
Repair	Something gone wrong with a luminaire, in spite of all precautions? ETAP's specialised repair service remedies any problem within the shortest time possible.





TECHNICAL SUPPLEMENT



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webref. SK1010G5



webref. SK9020A5

BASIC TERMS OF PHOTOMETRICS

LIGHT SOURCE

ETAP is always looking for efficient, economical and compact light sources. That is why we mainly use fluorescent lamps and LEDs.

Fluorescent lamps are energy-efficient and have good colour rendering properties. They are widely available and moderately priced.

LEDs (light emitting diodes) are very compact point light sources that radiate the light in one direction and as such are eminently suitable for subsequent light treatment as a function of the application.



light source



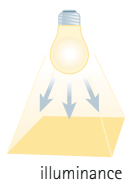
luminous



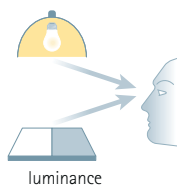
efficiency



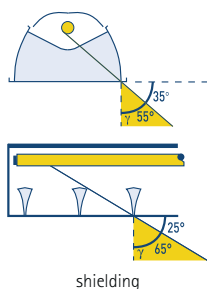
luminous intensity



illuminance



luminance



shielding

LUMINOUS FLUX F (lumen – lm)

Luminous flux is the energy of light emitted by a light source or luminaire per unit time.

Thermal management within the luminaire is a major consideration in our luminaire design, because it influences the luminous flux.

EFFICIENCY (%)

Efficiency is the ratio of the luminous flux emitted by a luminaire to the lamp luminous flux.

The higher the luminaire efficiency at a given shielding, the lower the energy consumption.

LUMINOUS INTENSITY L (candela – cd)

Luminous intensity is the luminous flux emitted in a given direction, per solid angle unit.

The luminous intensity therefore describes how the emitted light is distributed through the room.

For luminaires, luminous intensity is represented in the form of a polar diagram.

ILLUMINANCE E (lux– lx)

Illuminance is the luminous flux incident on a surface, per unit area. It is a measure for the amount of light, but tells us little about the quality of the lighting.

LUMINANCE L (cd/m²)

Luminance is an objective measure for the subjective perception of brightness.

Control of the luminances of luminaires is essential for comfortable lighting.

Standard EN12464-1 imposes restrictions on average luminances, but ETAP also invariably pays attention to limiting peak luminances.

SHIELDING (for reflectors)

ETAP reflectors ensure that, for certain viewing directions, no direct light from the lamp can fall into the eyes. This is referred to as physical shielding. However, it is equally important that no mirror images of the lamp are visible in the reflector. This is known as optical shielding. In ETAP products, the optical shielding is at least equal to the physical shielding. For reflector shielding, the following terms are used:

- cut-off angle g
- shielding angle (complement of g)



webref. SK3004B1

TECHNICAL CLASSIFICATIONS



IP PROTECTION

The IP classification specifies the level of protection against solid objects and dust (1st digit) and water (2nd digit)

IP

Protection class	Resistance to solid objects and dust	Resistance to water
IP20	test finger > 12 mm	not protected
IP22	test finger > 12 mm	falling water drips (15° slope)
IP40	solid objects > 1 mm	not protected
IP42	solid objects > 1 mm	falling water drips (15° slope)
IP44	solid objects > 1 mm	splash proof
IP50	dust protected	not protected
IP54	dust protected	splash proof
IP55	dust protected	jet proof
IP65	dust-tight	jet proof
IP66	dust-tight	heavy jet proof
IP68	dust-tight	sustained submersion



IK PROTECTION

The IK classification specifies the degree of protection against mechanical impact:

IK

Protection class	Shock energy
IK03	0,35 J
IK04	0,50 J
IK05	0,70 J
IK06	1 J
IK07	2 J
IK08	5 J
IK09	10 J
IK10	20 J

F SYMBOL

All luminaires carry an F symbol. There are three types:



The luminaire is suitable for mounting on normally flammable surfaces, but may not be covered.



The luminaire is suitable for mounting on normally flammable surfaces and may be covered with insulation mats.



The luminaire is suitable only for direct mounting on non flammable surfaces.



FIRE RESISTANCE CLASS

Resistance to fire is assessed by means of the filament test (as per standard IEC 695-2-1). All luminaires belong to flammability class 850°, unless otherwise indicated on the product pages.



IMPACT TEST

Some luminaires have been subjected to a ball impact test (as per DIN VDE 0710 Teil 13/05.81).

This test assesses the safety of the luminaire after a number of dosed ball impacts. In this catalogue these luminaires are indicated by the ball impact test icon.

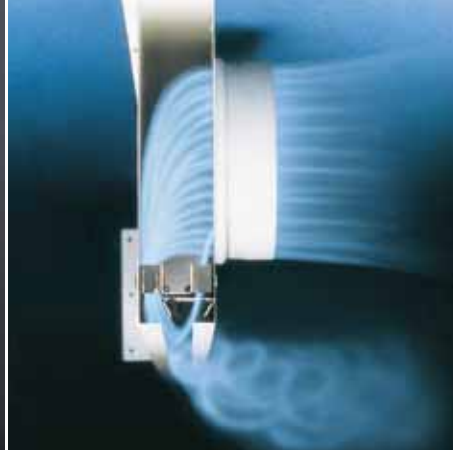


ATEX

Some luminaires are ATEX certified. They can be used in dusty and/or gas environments.



webref. SDL011A8



webref. SD003A

BESPOKE LUMINAIRES

With our experienced development team and our flexible production, we can swiftly respond to your custom needs. Form, colour, photometrics, air handling, dimensions, mounting or electrical connection can be specified according to your requirements. We have already supplied bespoke luminaires for countless projects.

MATERIAL, FORM AND COLOUR

Sometimes luminaires have to be integrated into a special ceiling. ETAP welcomes your suggestions and guides the design of the desired solution.

SPECIFIC PHOTOMETRICS

Some applications call for special photometrics. Examples include the maintenance of trains, a painting line in the automotive industry, etc. ETAP analyses the problem and offers ready solutions.

ELECTRICAL OR ELECTRONIC MODIFICATIONS

Do you have a different voltage or mains frequency, or other specific requirements for your emergency or normal lighting system? Together we examine the options and look for a proper solution.

AIRHANDLING FOR LIGHTING

ETAP considers lighting, air handling and noise control as one integrated whole. Air supply or air extraction via the luminaire means fewer cut-outs in the ceiling and possibly also lower installation costs. ETAP offers various standard systems and accessories. Specific situations can be tested and demonstrated in the ETAP simulation laboratories.

AIR SUPPLY

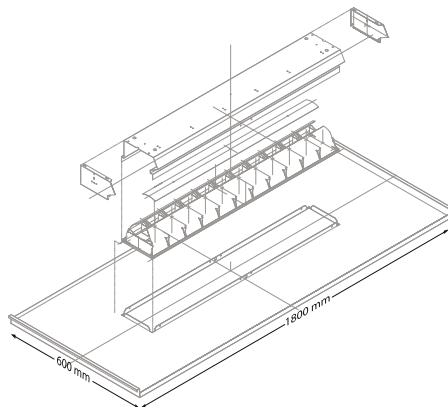
Fresh air in the rooms is required at all times. Draught-free comfort in a room is important. This is ensured by the linear air vent which can be efficiently adjusted. The standard air vent consists of 4 individually adjustable sections. Both the air flow direction and the induction can be set by means of turbulators. Codes and further information are available upon request.

AIR EXTRACTION

The heat load from the lamps can be discharged directly together with the used air. Cooling can then be reduced, and comfort is enhanced because less air flow is needed. Air extraction openings are standard in some ETAP luminaires. This is indicated in the catalogue. Ducted air extraction via an extraction plenum is also possible.

Air movement around the lamp causes a strong reduction in the luminous flux. That is why we have devised a patented solution for extraction without light loss, apart from the lamp.

Further information can be obtained upon request.



webref. SOD Leaflet



webref. SU3005D11

INTEGRATED SOLUTIONS

Lighting and emergency lighting are often considered separately, but there is no need to do so. ETAP offers various solutions in which lighting and emergency lighting are integrated with each other. The emergency lighting becomes, as it were, invisible.

EMERGENCY UNITS INTEGRATED INTO LIGHTING LUMINAIRES

In this case the lamp of the luminaire is also used to provide light in emergency situations.



LED MODULES INTEGRATED INTO LIGHTING LUMINAIRES

A LED module is unobtrusively integrated into a luminaire. In emergency mode, this LED provides the necessary light.

For details, refer to the chapter "Basic terms of Emergency lighting" on page 428.

SYMBIOSIS BETWEEN CEILING AND LIGHTING

If you are looking for a lighting system that optimally preserves your linear plank ceiling, ETAP can provide you with customised luminaires. We can design the luminaires so as to allow their perfect integration with the metal ceiling planks of your choice. For this, ETAP punches the necessary holes into the ceiling planks, so that the luminaires perfectly fit into the holes. The reflector floats in the ceiling and there is no roughly finished trim edge. Ceiling and lighting form one harmonious whole. We can also satisfy your specific requirements in the areas of photometry, air handling, light control, or emergency lighting.

SOD: "SIZE ON DEMAND"

Lighting luminaires often need to be recessed. It would be ideal, when the dimensions of the luminaire match those of the ceiling cut outs. However, that isn't always the case: renovations, different ceiling sizes,.... That's why you can personally define the dimensions of your luminaire: a maximum length of 1800 mm and a maximum width of 600 mm. The minimal dimensions are 596 x 117 mm.

A frame based on the dimension changes by the client is the starting point of a 'Size On Demand'-luminaire. The entire housing is mounted onto this frame. Next, only the reflector needs to be mounted. The frame is one solid piece, to ensure complete visual integration into the ceiling. 'Size On Demand'-luminaires are as easy to install as a ceiling tile.

OR YOU CHOOSE...

You can certainly think of many other situations that require a specific solution. Do not hesitate to contact us for professional advice.



webref. SA016E3



webref. SK9011C1

LAMPS



Fluorescent lamp
T16 – ø16 mm lamp: socket G5
 Ra 85 – colour: 830 / 840

Wattage W	Length mm	Lumen lm (25°C)	Efficiency lm/W (25°C)
<i>High efficiency versions</i>			
14	549	1200	99
21	849	1900	101
28	1149	2600	104
35	1449	3300	105

High output versions

24	549	1750	89
39	849	3100	92
49	1449	4300	99
54	1149	4450	93
80	1449	6150	88

Lamp life: 16000 hours (HF)¹



Fluorescent lamp
T8 – ø26 mm lamp: socket G13
 Ra 85 – colour: 830 / 840

Wattage W	Length mm	Lumen lm (25°C)	Efficiency lm/W (25°C)
18	590	1350	75
36	1200	3350	93
58	1500	5200	90

Lamp life: 17000 hours (HF)¹
 12000 hours (EM)¹



Circular fluorescent lamp
T16-R – ø16 mm lamp: socket 2xG13
 Ra 85 – colour: 860 / 840

Wattage W	Dimensions mm	Lumen lm (25°C)	Efficiency lm/W
22	ø225	1800	82
40	ø300	3300	83
55	ø300	4400	76
60	ø375	5000	83

Lamp life: 8000 hours (HF)¹



Compact fluorescent lamp
TC-SE lamp: socket 2G7
 Ra 82 – colour: 830 / 840

Wattage W	Dimensions mm	Lumen lm (25°C)	Efficiency lm/W (25°C)
7	28 x 13 x 113	400	62
9	28 x 13 x 145	600	73
11	28 x 13 x 215	900	82

Lamp life: 8000 hours (HF)¹



Compact fluorescent lamp
TC-T lamp
 Ra 82 – colour: 830 / 840

Wattage W	Dimensions mm	Socket	Lumen lm (25°C)	Efficiency lm/W (25°C)
13	45 x 49 x 106	GX24q-1	900	-
18	41 x 49 x 112	GX24q-2	1200	-
26	41 x 49 x 127	GX24q-3	1800	-
32	41 x 49 x 139	GX24q-3	2400	-
42	41 x 49 x 161	GX24q-4	3200	-

Lamp life: 8000 hours (HF)¹



Compact fluorescent lamp
TC-L lamp: socket 2G11
 Ra 82 – colour: 830 / 840

Wattage W	Dimensions mm	Lumen lm (25°C)	Efficiency lm/W (25°C)
18	24 x 38 x 220	1200	67
24	24 x 38 x 315	1800	75
34	24 x 44 x 535	2800	- ²
36	24 x 38 x 410	2900	81
40	24 x 38 x 535	3500	88
55	24 x 38 x 535	4800	87
80	24 x 38 x 565	6000	75

Lamp life: 14000 hours (HF)¹
 10000 hours (2)

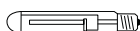


Compact fluorescent lamp
TC-F lamp: socket 2G10
 Ra 85 – colour: 830 / 840

Wattage W	Dimensions mm	Lumen lm (25°C)	Efficiency lm/W (25°C)
18	78 x 18 x 122	1100	-
24	79 x 18 x 165	1700	-
36	79 x 18 x 217	2800	-

Lamp life: 8000 hours¹

(1) 3u cycle – 10% drop
 (2) 12u cycle – 10% drop



High pressure sodium lamp
HST-MF lamp

Ra 25 – colour 2000K

Wattage W	Dimensions mm	Socket	Lumen lm. (25°C)	Efficiency lm/W (25°C)
70	ø32 x 156	E27	6600	91
150	ø47 x 156	E40	18000	117

Lamp life: 70W – 17000 hours³
150W – 21000 hours³



High pressure Mercury lamp
HME lamp

Ra 55 – colour: 3400K

Wattage W	Dimensions mm	Socket	Lumen lm (25°C)	Efficiency lm/W (25°C)
125	ø76 x 173	E27	6700	50

Lamp life: 7500 hours²



Aluminium reflector metal halide lamp 12V
QR-C51 lamp: socket GU5.3

Ra 100 – colour: 300K

Wattage W	Afmetingen mm	Beam	Distribution °	Peak intensity cd
20	ø51	Medium	36°	700
35	ø51	Medium	36°	1100
50	ø51	Medium	36°	1800

Lamp life: 4000 hours⁴



Aluminium reflector lamp 12V
QR-LP111 lamp: socket G53

Ra 100 – colour: 3000K

Wattage W	Dimensions mm	Beam	Distribution °	Peak intensity cd
35	ø111	Spot	4°	35000
35	ø111	Medium	24°	2500
50	ø111	Spot	4°	40000
50	ø111	Spot	8°	20000
50	ø111	Medium	24°	4000
75	ø111	Spot	8°	30000
75	ø111	Medium	24°	5300
75	ø111	Flood	45°	2000

Lamp life: 3000 hours⁴



CDM-T CDM-TC

Metal Halide lamp
CDM-T lamp: socket G12
CDM-TC lamp: socket G8,5

Ra81 – colour 3000K

Ra96 – colour 4200K

Wattage W	Dimensions mm	Socket	Lumen lm. (25°C)	Efficiency lm/W (25°C)
20	ø14 x 85	G8,5	1650	75
20	ø14 x 85	G12	1650	75
35	ø14 x 85	G8,5	3300	87
35	ø20 x 100	G12	3300	87
70	ø14 x 85	G8,5	5900	80
70	ø20 x 100	G12	6600	92
150	ø20 x 110	G12	12700	88

Lamp life: 9000 hours (HF)⁴

Run-up time: 3,5 minutes

(³) 12u cycle – 10% drop

(⁴) 50% drop

OVERVIEW ICONS

	Atex II 2 D (t = 80 °C), explosive dust atmospheres, zones 21 and 22		
	battery – NiCd Nickel-Cadmium		
	battery - NiMH NickelMetalHydride		
			fire safety (see technical classifications on page 365 for more information)
	CE mark		
	IF-award		
	wireless network		
	ENEC mark		
	ETAP Battery System (EBS)		
	ETAP Safety Manager (ESM)		
	European Safety Test, autom. selftest		
	European Safety Test, autom. selftest		
	IP protection level (see technical classifications on page 365 for more information)		
	class II, double insulated		
	licht source, compact fluorescent lamp		
	light source, linear fluorescent lamp		
	light source, LEDs		
	impact resistance (see technical classifications on page 365 for more information)		
	impact test		
		temperature resistance, filament test (see technical classifications on page 365 for more information)	
	light distribution		



webref. SA045A3

ETAP NEWS

Would you like to be kept abreast of the latest developments in energy efficient lighting? Make sure to regularly check out the news section on our website. Or subscribe to our monthly electronic newsletter "ETAP News and Views".

In "ETAP News and Views" we give brief information and tips regarding:

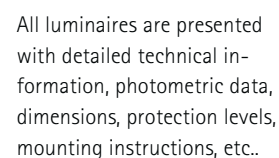
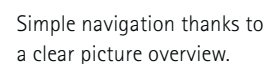
- the application of LEDS in lighting and emergency lighting
- energy efficient lighting installations, including interesting cases
- the integration of light and architecture
- new ETAP luminaires and light control systems
- changes in legislation and regulation concerning (emergency) lighting
- ...and a lot more

Interested? Go to www.etaplighting.com - more news - newsletter and subscribe online. You will receive the newsletter in your mailbox every month. We treat your data with the greatest of care. you will only receive news from us if we truly have something to tell you. Your data will not be passed on to third parties.



On our website you can find much more information about ETAP and ETAP products and services.

In our interactive, up-to-date product database you will quickly and easily find the luminaire you are looking for.



Project LIPA Antwerpsesteenweg 130, 2390 Malle

D00T11SHFWX1
Luxia® - recessed luminaire -
downlight
HFW: warm start electrical ballast

Housing
square - white - wafer trim
housing of polycarbonate and galvanised
sheet steel
trim of lacquered sheet steel

Measurements
dimensions: (LxWxH) 188 mm x 188 mm x 131 mm
minimum cutout: (LxW) 175 mm x 175 mm

Installation
mounting bracket 1 - 35 mm - gear housing is
detachable

Optic
downlight - satin-anodised aluminium - wide-
angle
Luminous area: 0.0193 m²

Lamp
lamp type: TC-T - 1 x 13W
inclusive lamp

Electrical equipment
HFW: warm start electrical ballast
voltage: 230-240V
frequency: 50Hz
Wieland connection: 1 x 3 polar Wieland
connection available
power consumption: 14 W

Luminous intensities in cd/m²			
beam	C 0°	C 45°	C 90°
0°	327	327	327
5°	331	332	331
10°	333	335	340
15°	343	345	348
20°	342	365	347
25°	348	385	329
30°	344	410	308
35°	340	411	256
40°	258	371	193
45°	238	284	126
50°	145	155	74
55°	65	50	33
60°	6	5	4
65°	2	1	1
70°	1	1	1
75°	1	0	0
80°	0	0	0
85°	0	0	0
90°	0	0	0

Corrected glare indices referring to a total lamp flux of 850lm			
Rho Ceiling	70%	50%	30%
Rho Walls	20%	100%	50%
Rho Floor	20%	100%	100%
2x2x24	19.9	20.8	21.0
3x3	19.8	20.4	20.1
4x4	19.8	20.4	20.1
6x6	19.7	20.3	20.0
8x8	19.7	20.3	20.0
12x12	19.7	20.3	20.0
16x16	19.7	20.3	20.0
24x24	19.7	20.3	20.0
36x36	19.7	20.3	20.0
48x48	19.7	20.3	20.0
60x60	19.7	20.3	20.0
72x72	19.7	20.3	20.0
84x84	19.7	20.3	20.0
96x96	19.7	20.3	20.0
108x108	19.7	20.3	20.0
120x120	19.7	20.3	20.0
132x132	19.7	20.3	20.0
144x144	19.7	20.3	20.0
156x156	19.7	20.3	20.0
168x168	19.7	20.3	20.0
180x180	19.7	20.3	20.0
192x192	19.7	20.3	20.0
204x204	19.7	20.3	20.0
216x216	19.7	20.3	20.0
228x228	19.7	20.3	20.0
240x240	19.7	20.3	20.0
252x252	19.7	20.3	20.0
264x264	19.7	20.3	20.0
276x276	19.7	20.3	20.0
288x288	19.7	20.3	20.0
300x300	19.7	20.3	20.0

All this information can be printed out neatly on a single page. You can also personalise the print-outs by inserting your own project and address data.

DOCUMENTATION

You can also download and view other useful information such as brochures, technical documents, our Dialux plug-in, etc. All our project and product photographs that appear in this catalogue with a web reference number (webref.) can also be found at our website.



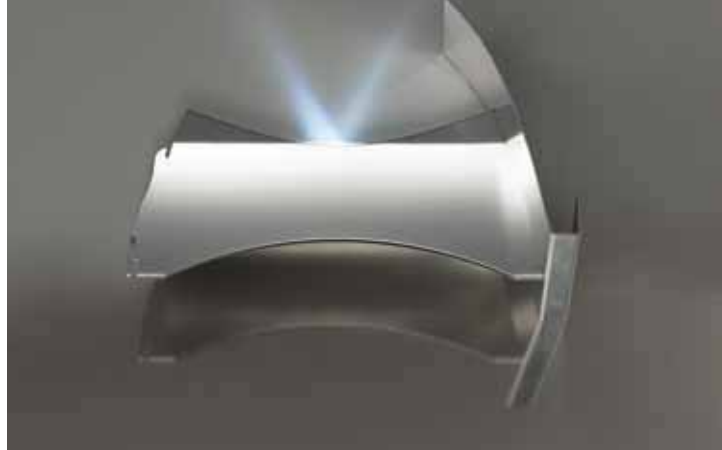
DIALUX

DIALux is a popular, commonly used and extensive light calculation program with powerful features for creating 3D renderings of lighting projects. To use DIALux with our luminaires, you need to download our plugin from www.etaplighting.com - downloads - photometric data. Or you can use the online plugin or our electronic product catalogue. The DIALux program can be downloaded at www.DIAL.de. Contact your ETAP adviser if you want to receive DIALux and the ETAP plugin on CD-ROM.





webref. SU5010C1



webref. SUTX003C

OPTICS

REFLECTORS

HRSilver™ - ALUMINIUM

ETAP uses HRSilver™ aluminium for the large majority of its reflectors.

This aluminium has an extremely high reflection factor (98%). As a result, HRSilver™ reflector luminaires have a considerably higher efficiency, allowing you to save more energy.

SYMMETRICAL LOW LUMINANCE (SLL) BAFFLES

Parabolically shaped with a flat top cover. They provide good luminance control longitudinally and transversely.

MICROLUM® BAFFLES

Parabolically shaped, with stepped top cover employing the Fresnel technique.

MICROLUM® baffles have low average luminances in all directions and significantly reduce peak luminances.

ISOLUM® BAFFLES

Parabolically shaped, with continuously formed top cover. They result in low average luminances in all directions and eliminate peak luminances.

EQUILUM® BAFFLES

Parabolically shaped on top and bottom sides. They prevent peak luminances and ensure perfectly uniform shielding in all directions.

DIFFUSERS

MesoOptics™

MesoOptics™ diffusers contain a precise microstructure that distributes the light in a controlled fashion. The efficiency is about 30 % higher than that of luminaires using conventional diffuser techniques. The result is rigidly and evenly illuminated optics without lamp silhouette and without any disturbing luminances or colour interference.

SOFTLIGHT

Softlight luminaires clearly show where the light comes from. They use the entire surface of the luminaire to evenly spread the light. They increase the brightness impression of the entire room.

HaloOptics®

HaloOptics® is a diffuser with a high transmission factor. Conventional diffusers create their diffusing effect by including impurities in the material, whereby much of the light is lost. HaloOptics® uses transparent inclusions, so that less light is lost and luminaire efficiency remains higher.



MICROLUM®



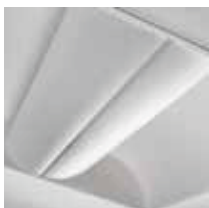
ISOLUM®



EQUILUM®



MesoOptics™



SOFTLIGHT



HaloOptics®



webref. SA012B1

STANDARDS LIGHTING

EUROPEAN APPLICATION STANDARD EN12464-1

The major application standard is European standard EN12464-1. This standard deals with the various quality aspects of a lighting installation for workstations and their immediate environment:

DEFINITION OF WORKSTATION AND PERIPHERAL ZONES

The standard distinguishes between the work plane (the task) and the environment. It describes a number of methods for defining your workstation. The standard defines the minimum illuminance, E_m , on the work plane for a variety of visual tasks and for the complete application time of the lighting installation.

LUMINANCE CONTROL ON COMPUTER SCREENS

Also on modern computer screens lighting can be a source of disturbance. The standard therefore contains requirements for the control of average luminances. For standard workstations, a limit of 1000 cd/m² or 200 cd/m² applies. This limit applies for angles from 65° all round. For critical computer screen activities (e.g. highly detailed drawings) or variable screen inclination, this value applies from an angle of 55° all round.

DIRECT GLARE

The standard prescribes two measures to reduce direct glare. First, a minimum shielding angle in all directions, depending on the lamp luminance, is prescribed. In addition, a maximum Unified Glare Rating (UGRL) is specified for each visual task. The UGR is an approximative model that expresses the probability of glare; the standard values range from UGR 16 to UGR 28. The catalogue indicates the reference UGR category for each luminaire.

IMPROVED COLOUR RENDERING

For the colour rendering index, R_a , the standard imposes minimum requirements as a function of the task. The higher the number, the better the colour rendering. The choice of lamp is the determining factor here. In rooms where people stay for a long time, lamps with an R_a of at least 80 are required.

SUPPORTED MAINTENANCE FACTOR

When the lighting system is new, luminaires are clean, lamps emit their full luminous flux and luminaires and planes in the room have optimal reflection properties. After the system has been in service for some time, light efficiency will decrease due to reduced lamp luminance, possible failure of electronics or lamps, contamination of the luminaire, the lamp and the room. The lighting design must make allowance for this by incorporating a maintenance factor. ETAP has commissioned an independent scientific institute to determine the maintenance factors to be applied for its luminaires. The report can be obtained upon request.

Unified Glare Rating (UGR) classes	
UGR ≤16	very high visual demands e.g. quality control, precision task
UGR ≤19	high visual demands e.g. Display Screen Equipment, office, conference, classroom
UGR ≤22	moderate visual and concentration demands e.g. assembly, information desk, canteen
UGR ≤25	low visual and concentration demands, frequent mobility e.g. rough industry, archives, stairways
UGR ≤28	very low visual and concentration demands e.g. (not continuously used) obstacle-free circulation area

Maintenance factor (MF)		Dust pollution levels			
		minimum ¹	low ²	medium ³	high ⁴
Open luminaires for direct lighting (T5 - ø16 mm of T8 - ø26 mm: Ra > 85)					
group replacement		0,85	0,80	0,75	0,70
replace broken lamp + group replacement		0,90	0,85	0,80	0,70
correction factor for					
luminaires with cover for direct lighting		BF x 0,95			
luminaires with painted reflector		BF x 0,90			
Uplights (T5 - ø16 mm of T8 - ø26 mm: Ra > 85)					
group replacement		0,85	0,70	0,65	0,65
replace broken lamp + group replacement		0,90	0,75	0,70	0,65
correction factor for					
luminaires with painted reflector		BF x 0,90			
Armatuur met up- en downlight (T5 - ø16 mm of T8 - ø26 mm: Ra > 85)					
group replacement		0,85	0,75	0,70	0,65
replace broken lamp + group replacement		0,90	0,80	0,75	0,70
correction factor for					
luminaires with painted reflector		BF x 0,90			

¹ A dust and smoke free from that is thoroughly cleaned every day. e.g. cleanrooms, operating rooms,...

² A room where hardly any dust or smoke is produced e.g. offices, hospital rooms,...

³ A room near an environment where dust or smoke is produced, where a limited amount of dust and smoke is produced e.g. restaurants, bakeries,...

⁴ A room where more dust of smoke is produced e.g. industry,...

CONSTRUCTION STANDARDS AND DIRECTIVES

EUROPEAN STANDARDS

The wiring of our luminaires is halogen-free and with diminished smoke production in accordance with harmonised document HD22.9 S3. All ETAP luminaires are constructed in accordance with electrical safety standards EN 60598-1 and EN 60598-2.

The ENEC approval mark, which can be awarded by independent certification authorities (KEMA, VDE, CEBC, etc.), guarantees conformity with the above standards and applies to most countries of the European Union. This catalogue indicates for each series whether the ENEC approval mark applies.

EUROPEAN DIRECTIVES

The CE marking certifies that ETAP luminaires conform to

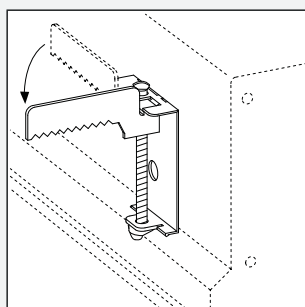
- the low-voltage directive (2006/95/EC)
- the electromagnetic compatibility directive (2004/108/EC)
- the requirements for waste electrical and electronic equipment (WEEE, 2002/96/EEG)
- the requirements for the use of certain hazardous substances in electrical and electronic equipment (ROHS, 2002/95/EC)
- the requirements for energy related products (ERP - EC 245/2009 and EC 347/2010).

Also, there are products available that conform to the requirements of

- the ATEX directive (94/9/EC) for application in explosive surroundings
- of
- the Medical directive (93/42/EC and 2007/47/EC) for application as medical support

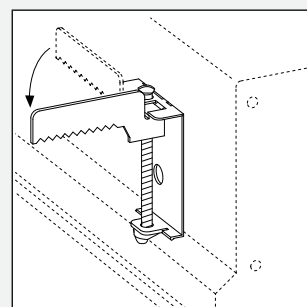
MOUNTING ACCESSORIES FOR LUMINAIRES

mounting brackets with variable
height adjustment,
mounting reach 31-54mm,
set of 4 pieces



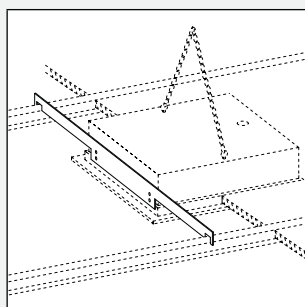
U8H1

mounting brackets with variable
height adjustment,
for spring 'T' fix,
mounting reach 24-47mm,
set of 4 pieces



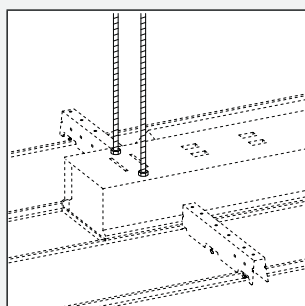
U8H2

mounting profiles,
mounting reach 46-54mm,
set of 2 pieces

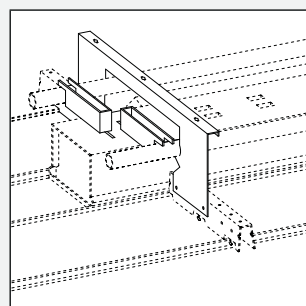


UZH57-1

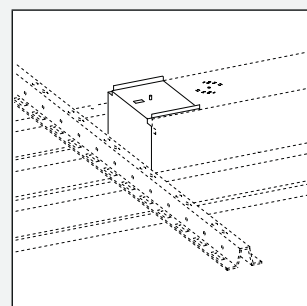
brackets and latches
for U3 mounting brackets



mounting with threaded rods

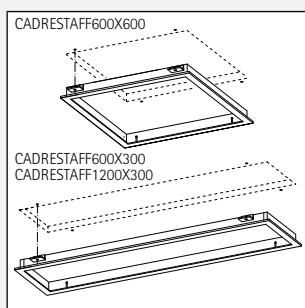


universal mounting system

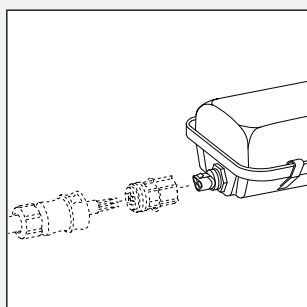


end mounting

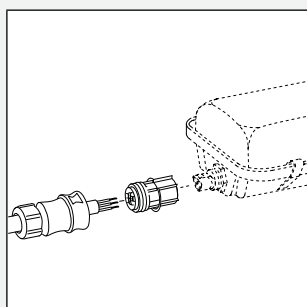
mounting accessories for
ALTER Softlight luminaires



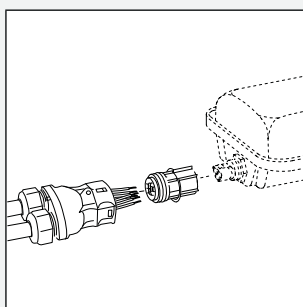
mounting frame



E1 with pre-mounted lamps and integrated male Wieland RST20i3 plug

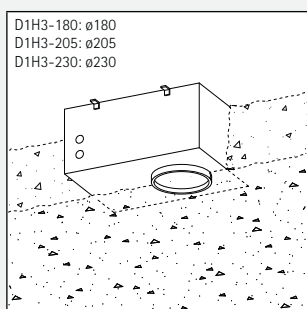


single female Wieland plug

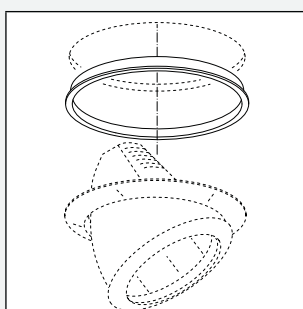


female Wieland plug for looping through

E1 quick mounting system with pre-mounted lamps and a male Wieland RST20i3 plug

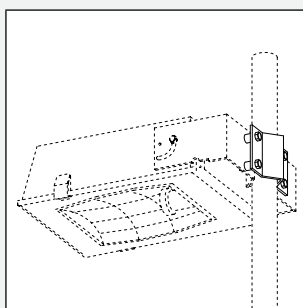


mounting housing: concrete ceilings



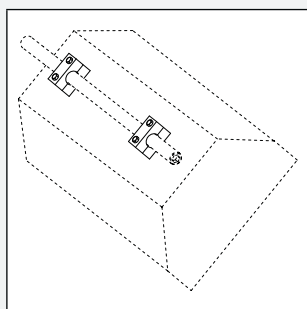
ceiling ring for D5 - D5H1

recessed downlights

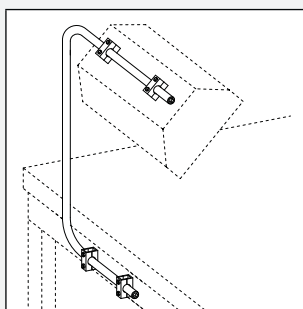


bracket for pole mounting of B1

B1H1



set of 2 tube clamps ø34 mm
E9H1



mounting tube and accessories
mounting on work bench
E9H2/018

E9

OTHER OPTIONS AND ACCESSORIES FOR LIGHTING

CHOICE OF ELECTRONIC BALLASTS

Where technically possible, all our luminaires are fitted with electronic ballasts (EB). The most important advantages as compared to magnetic ballasts are the higher lamp efficiency (energy savings between 20% and 30%), the improved comfort owing to stable operation without stroboscopic effects or electrode flicker, and the automatic switch-off of defective lamps.

An overview of the various ballasts that can be integrated into our luminaires is given below. Ask ETAP for advice.

HFV	non-dimmable electronic ballast, warm start
HFD	dimmable electronic ballast with analog 1-10V control
HFE	electronic ballast with daylight-dependent light control ELS
D	dimmable electronic ballast with DALI control
DE	dimmable electronic DALI ballast with daylight-dependent light control ELS
H	low loss electronic ballast with parallel compensation
DD	two circuits with dimmable electronic DALI ballast, for dynamic light applications

DALI (Digital Addressable Lighting Interface) is the latest industry standard for comfort and flexibility in luminaire control. Luminaires with DALI ballasts are digitally addressable, adjustable and dimmable. This results in a highly flexible lighting system. DALI networks can be connected via special components to a PC or to building management systems, e.g. via EIB® or LON®.

Electronic ballasts contain a multitude of electronic components, so that defects cannot be ruled out. For electronic ballasts from Philips and Osram the guarantee period is five years after the delivery date. Please contact ETAP for the exact terms and conditions.

FLEX / PLUG / LAMP

Luminaires with power cable and plug, cable clamps and mounted lamp. Or luminaires equipped with a modular plug system, e.g. Wieland, Wago, etc. This allows for very fast installation.

THROUGH WIRING

This option is useful for the electrical through-connection of luminaires.

LIGHT CONTROL SYSTEMS

ETAP offers various light control systems: for dimming artificial light in relation to the amount of daylight, or depending on the presence in the room, etc. – see pages 238 tot 243. Also for building management systems such as EIB®, LON® and Batibus, you can have the appropriate modules integrated into the luminaires.



INTEGRATION OF EMERGENCY LIGHTING

A self-contained emergency lighting module can be integrated into the luminaires. Such a module has rechargeable batteries and ignites the lamp of a luminaire in the event of a power failure. A clearly visible LED indicates the presence of charge current. For various luminaire series you can see in the detailed tables whether emergency units can be integrated as standard. For all other luminaires you can contact your ETAP representative.

Another option is to integrate a K9 module, which is a special LED module that will serve as emergency lighting in the event of a power failure. For individual monitoring in EBS, the ETAP central battery system, an addressing module can be integrated. For this solution, too, you can contact your ETAP representative.



webref. SC022B1



webref. SA016K

SHATTERPROOF LAMPS

These lamps are surrounded by a flexible protective cover in plastic, which keeps all glass fragments inside if the lamp breaks.

STACKED ON PALLETS

Luminaires are not individually packed in cardboard, but they are neatly stacked on pallets. This may be relevant for larger projects, as you do not need to remove large quantities of cardboard from the site and you thus save installation time.

ACCESSORIES FOR LED PRODUCTS

POWER SUPPLIES

All information on the applicable power supply can be found on the page of the concerning product.

Distance between fitting and power supply: 15-20 m for power LEDs.

For SMD LEDs & LED strips: please contact ETAP.

CONTROL UNITS

• *Native bus protocols*

- Mini program unit pro: controller + front-end for the set up of colours, and the selection of programs.
- Mini program unit pro plus: Mini program unit pro + the possibility to connect a switch in order to be able to pause the program and to turn off the LEDs.
- Bus drive digital: controller to which a push button is connected so that the single-colour luminaires can be connected and optionally dimmed (the output of the eco-drive can be divided into groups).
- Bus drive analogue: 3 analogue inputs (0-10 V or 1-10 V) to address colour drives (grouping isn't possible) or to address the single-colour drives (in that case the green signal is used).

• *Converters from other protocols*

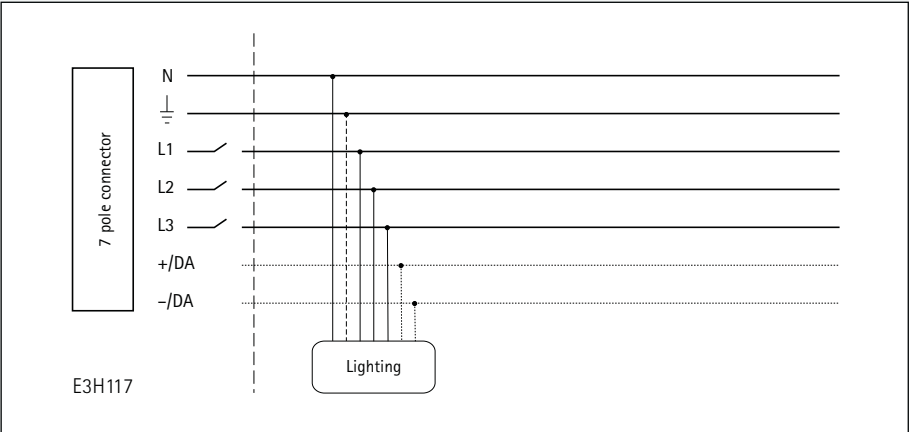
- DMX 512 converter: converter from DMX 512 to the bus, by which 10 channels of the bus can be addressed individually.
- DMX 512 converter simplex: converter from DMX 512 to the bus, by which all channels of the bus are addressed identically.

• *Pushbutton interface for ledstrips*

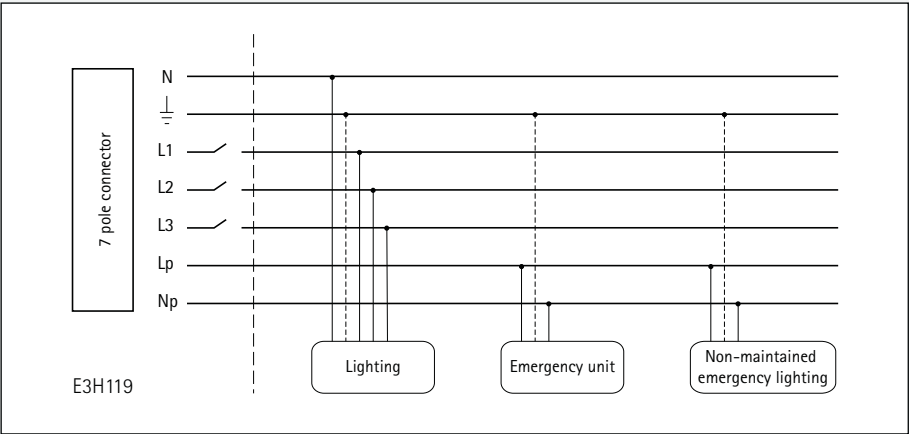
- Transition from RJ10 to screw contacts.

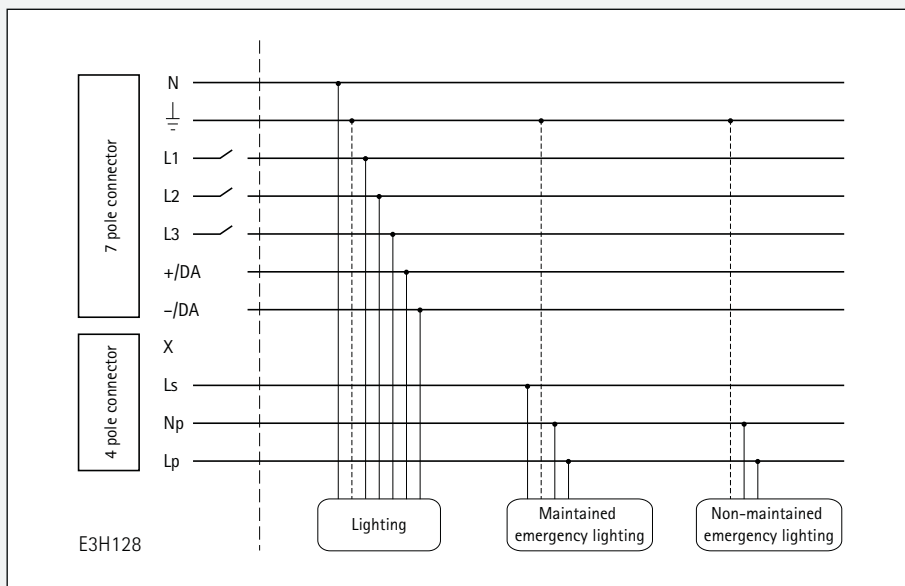
WIRING DIAGRAMS LIGHT LINE SYSTEMS (E3/E5)

5 or 7 pole throughwiring
without emergency lighting

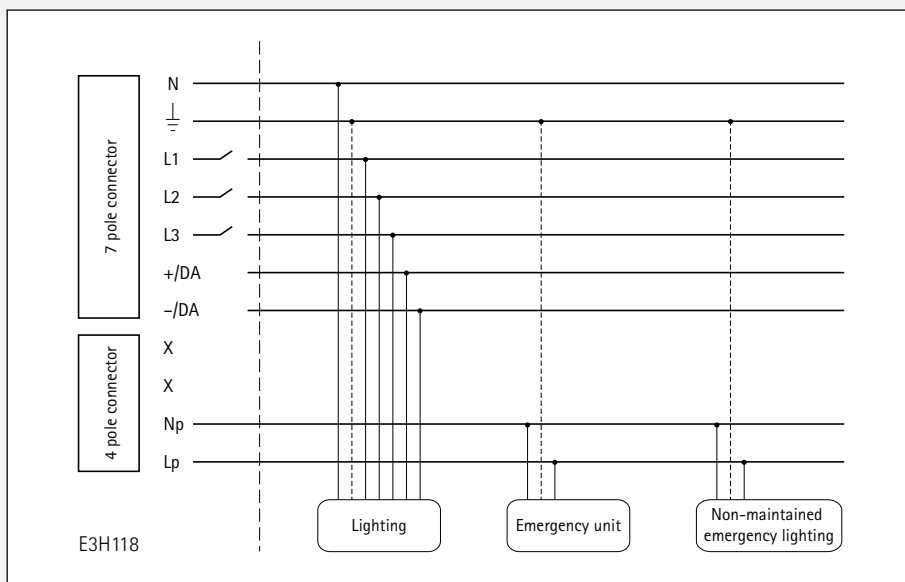


7 pole throughwiring with
emergency unit or non-maintained
emergency lighting





8 or 10 pole throughwiring with emergency lighting



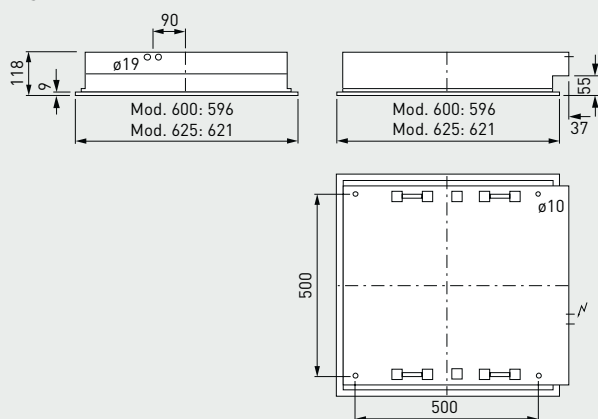
9 pole throughwiring with dimming and emergency unit or non-maintained emergency lighting

DIMENSIONAL SKETCHES

recessed luminaires

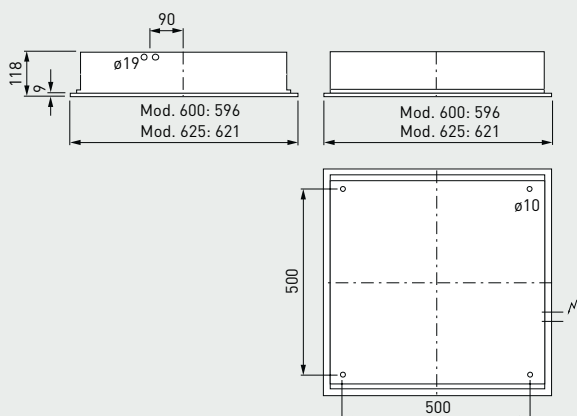
1. U14 - square - 3x T8 - Ø 26 mm

Ceiling cutout: 580 x 580



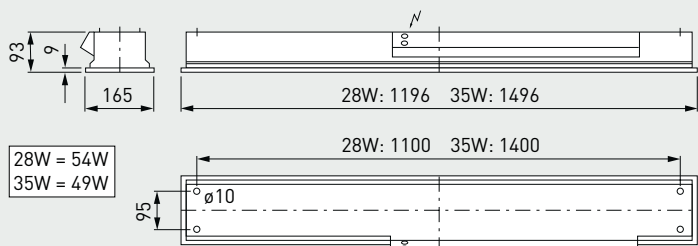
2. U14 - square - 3x T5 - Ø 16 mm

Ceiling cutout: 580 x 580



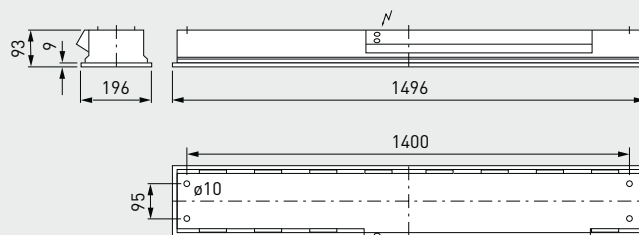
3. U1 - linear, non-modular - T5 - Ø 16 mm - 28W/ 35W

Ceiling cutout:
28W: 1184 x 144
35W: 1484 x 144



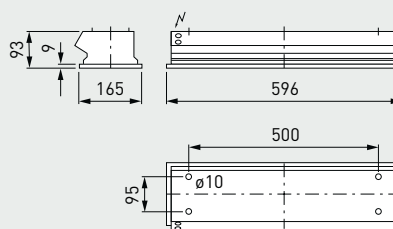
4. U1 - linear, non-modular with air extraction- T5 - Ø 16 mm

Ceiling cutout: 1484 x 165



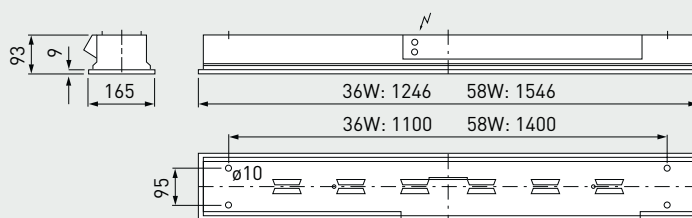
5. U1 - linear, non-modular - T5 - Ø 16 mm - 14W

Ceiling cutout: 584 x 144



6. U1 - linear, non-modular - 1x T8 - Ø 26 mm - 36W-58W

Ceiling cutout:
36W: 1234 x 144
58W: 1534 x 144

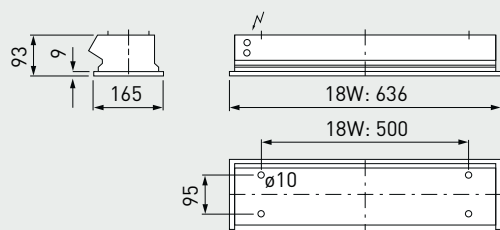


DIMENSIONAL SKETCHES

recessed luminaires

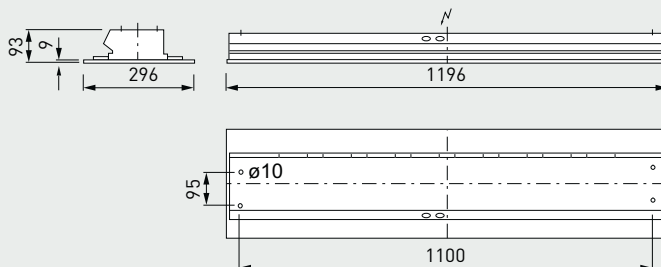
7. U1 - linear, non-modular- 1x T8 - Ø 26 mm - 18W

Ceiling cutout: 624 x 144



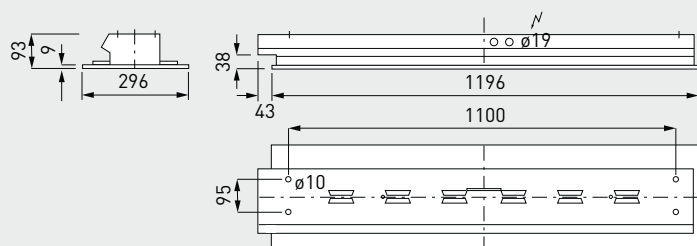
10. U1 - linear, module 300 - T5 - Ø 16 mm

Ceiling cutout: -



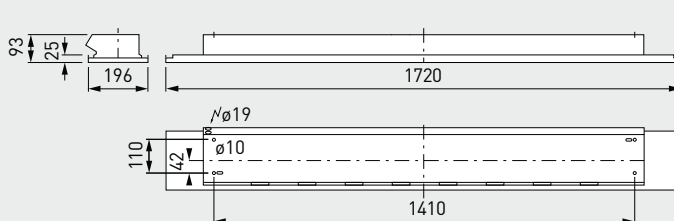
8. U1 - linear, module 300 - 1x T8 - Ø 26 mm - 36W

Ceiling cutout: -



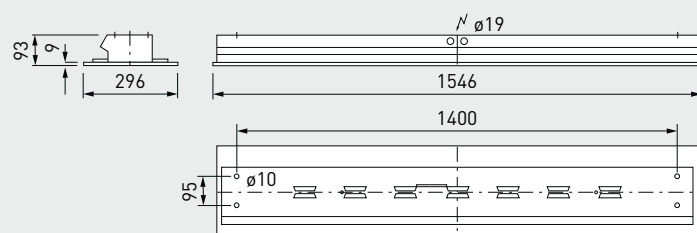
11. U1 - linear, 'BANDRASTER', module 1800 - T5 - Ø 16 mm

Ceiling cutout: -



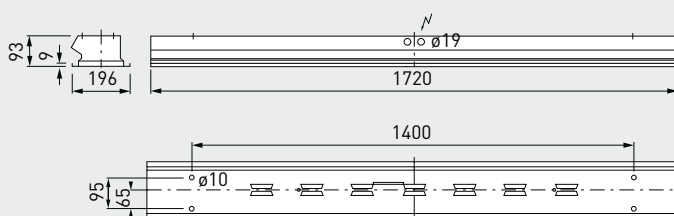
9. U1 - linear, module 300 - T8 - Ø 26 mm - 58W

Ceiling cutout: -



12. U1 - linear, 'BANDRASTER' - T8 - Ø 26 mm - 58W

Ceiling cutout: -

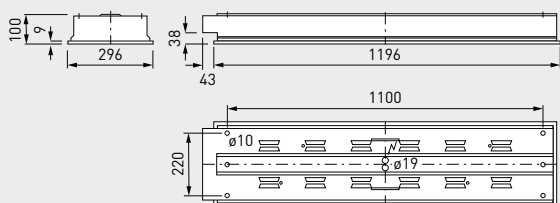


DIMENSIONAL SKETCHES

recessed luminaires

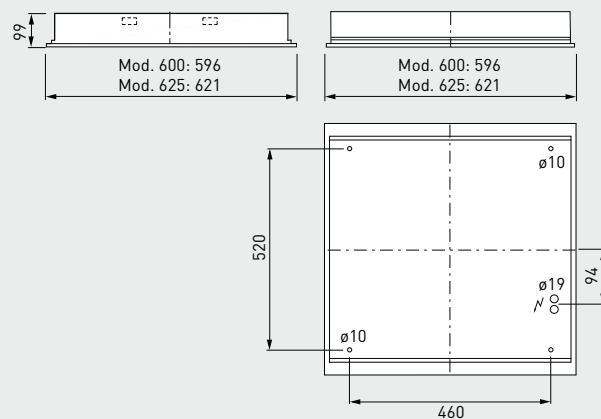
13. U1 - linear, module 300 - 2x T8 - Ø 26 mm - 36W

Ceiling cutout: 1184 x 275



16. U17 - square - 3x en 4x T5 - Ø 16 mm

Ceiling cutout: 586 x 586

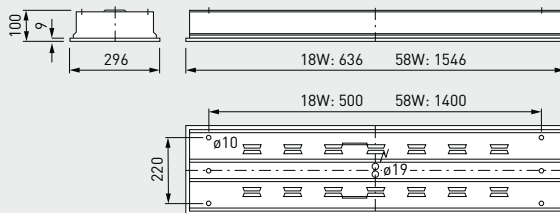


14. U1 - linear, module 300 - 2x T8 - Ø 26 mm - 18W/58W

Ceiling cutout:

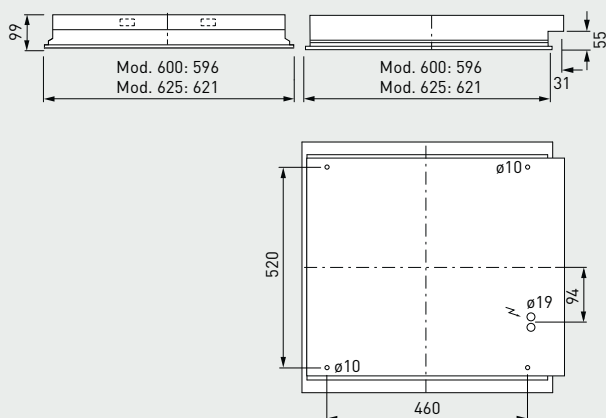
18W: 624 x 275 (without air extraction openings)

58W: 1537 x 275



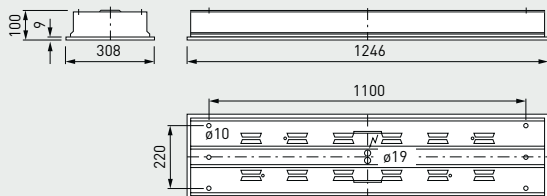
17. U17 - square - 3x T8 - Ø 26 mm

Ceiling cutout: 586 x 586



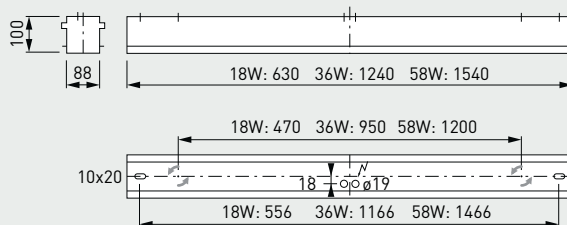
15. U1 - linear, module 625 - 2x T8 - Ø 26 mm - 36W

Ceiling cutout: 1184 x 275



20. U31 - 1 lamp

Ceiling cutout: -

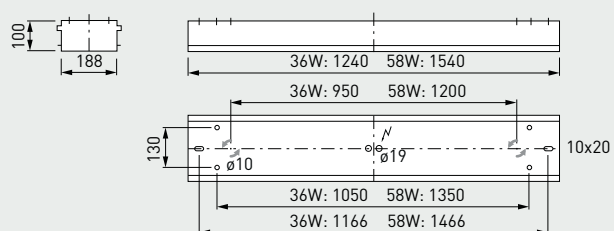


DIMENSIONAL SKETCHES

recessed luminaires

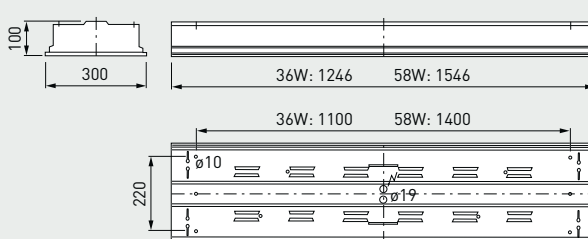
21. U31 - 2 lamp

Ceiling cutout: -



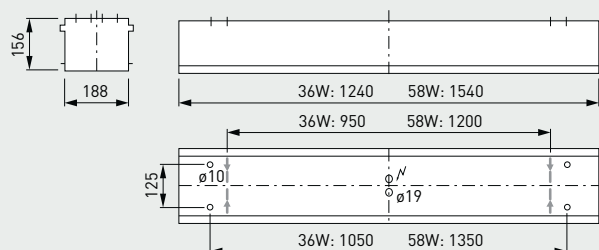
24. U3 - 2x T8 - Ø 26 mm

Ceiling cutout: -



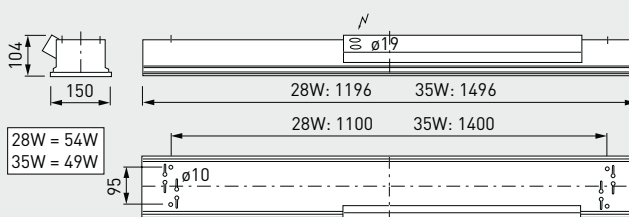
22. U36

Ceiling cutout: -



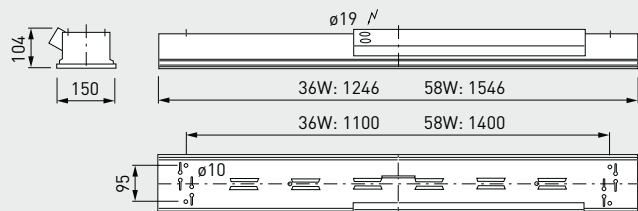
25. U38 - T5 - Ø 16 mm

Ceiling cutout: -



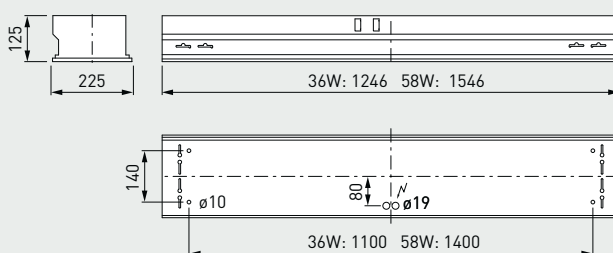
23. U38 - 1x T8 - Ø 26 mm

Ceiling cutout: -



26. U39

Ceiling cutout: -

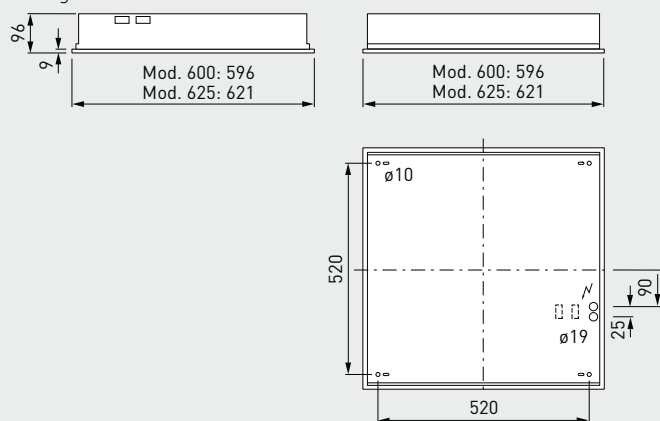


DIMENSIONAL SKETCHES

recessed luminaires

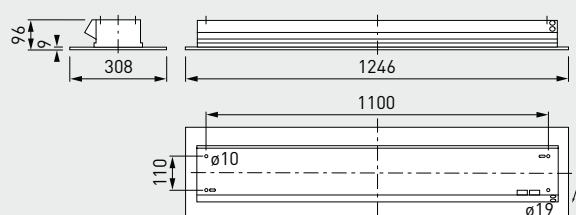
30. U5 - square - 3 lamp without air extraction

Ceiling cutout: 580 x 580



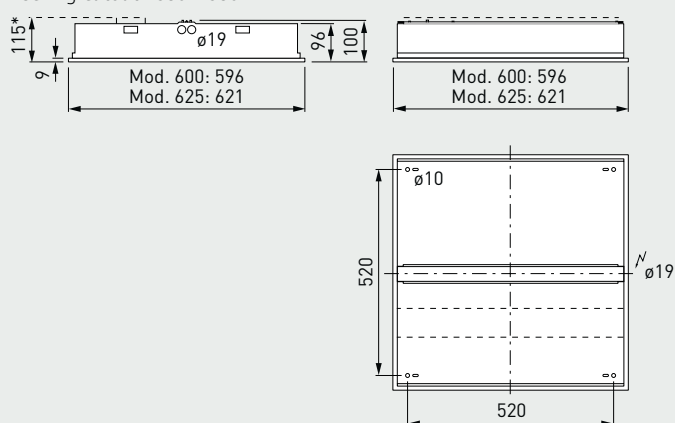
33. U5 - linear - module 625

Ceiling cutout: -



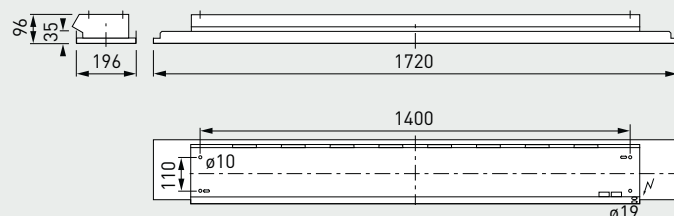
31. U5 - square - 4-lamps / ...* version with emergency unit

Ceiling cutout: 580 x 580



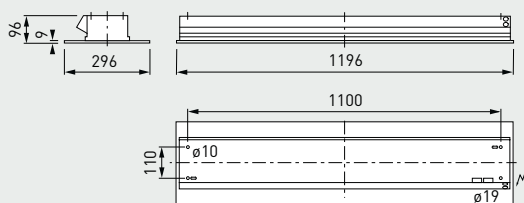
34. U5 - linear - 'BANDRASTER', module 1800

Ceiling cutout: -



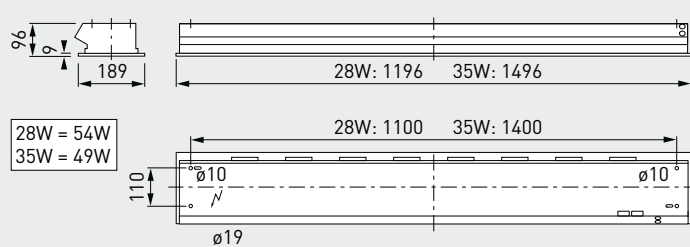
32. U5 - linear - module 300

Ceiling cutout: -



35. U5 - linear - non-modular with air extraction

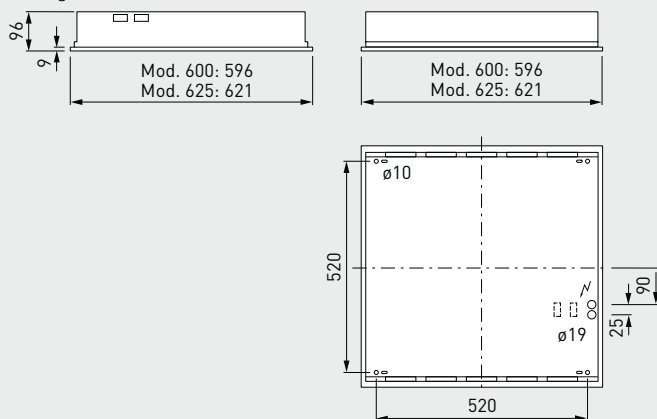
Ceiling cutout: -



recessed luminaires

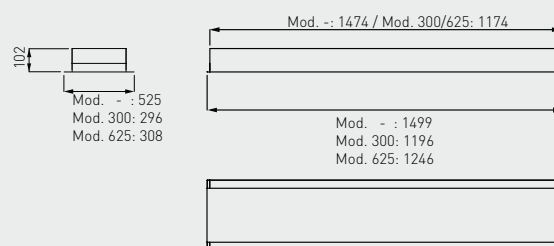
36. U5 - square - 3 lamp with air extraction

Ceiling cutout: 580 x 580



39. U5 - linear - IP 65

Ceiling cutout: -

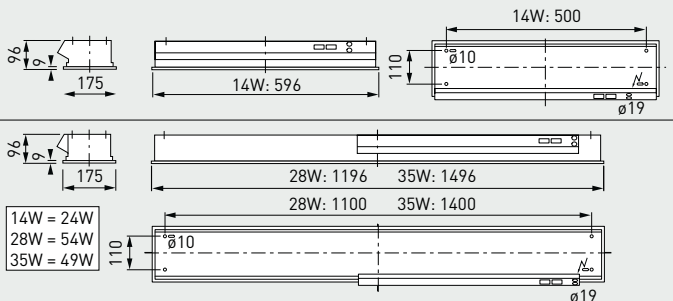


37. U5 - linear - non-modular

Ceiling cutout: 14W: 584 x 165

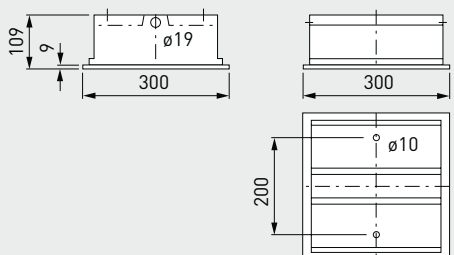
28W: 1184 x 165

35W: 1484 x 165



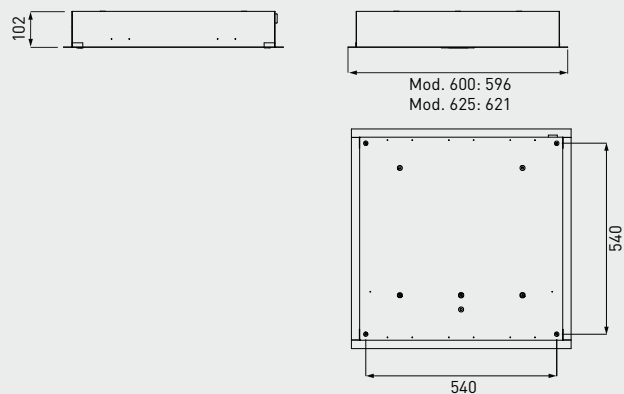
40. UJ201

Ceiling cutout: 280 x280



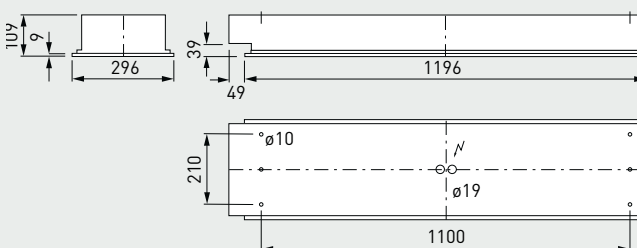
38. U5 - square - IP 65

Ceiling cutout: -



50. UJ403

Ceiling cutout: -

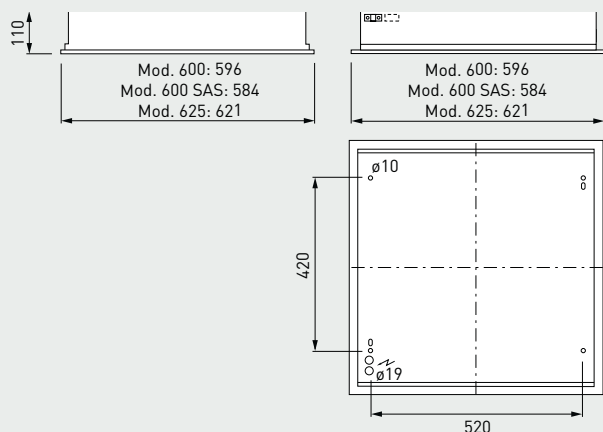


DIMENSIONAL SKETCHES

recessed luminaires

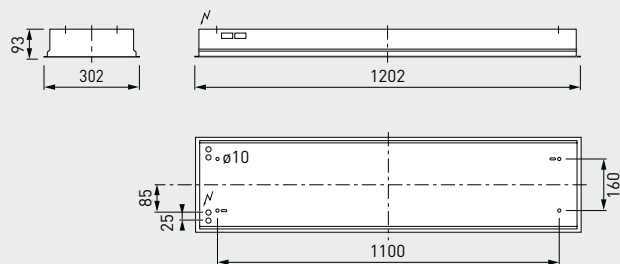
60. UM1 - square

Ceiling cutout: 580 x 580



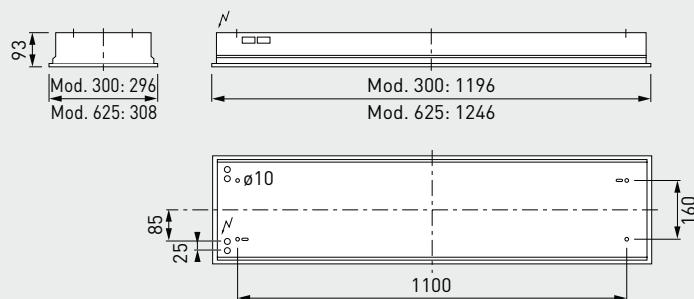
63. UM1 - linear - with wafer trim

Ceiling cutout: 1185 x 285



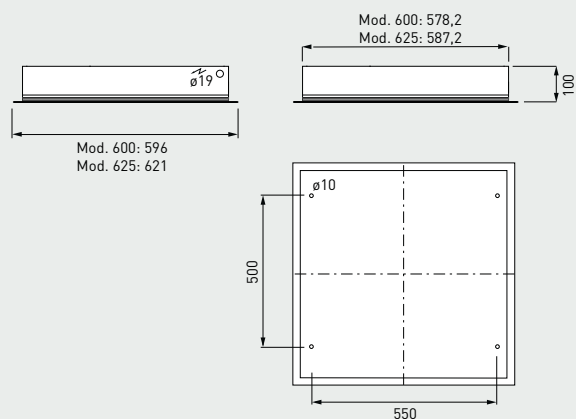
61. UM1 - linear

Ceiling cutout: 1178 x 280



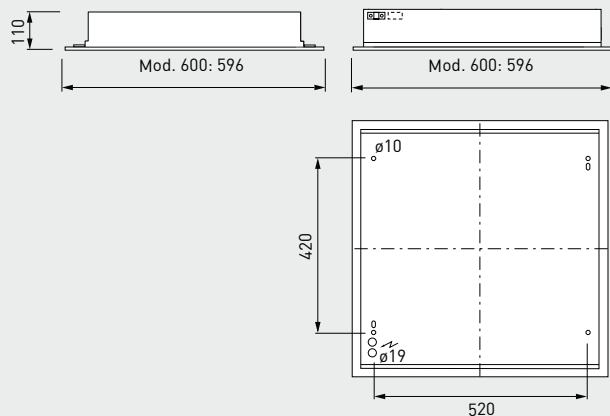
64. UM2 - square

Ceiling cutout: -



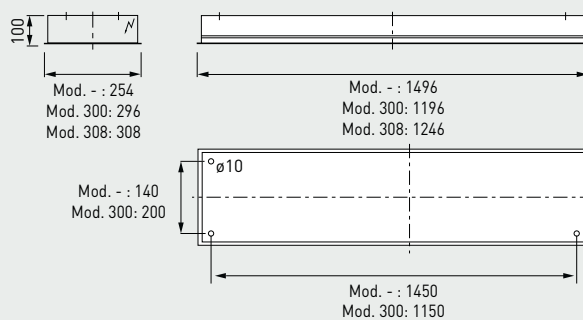
62. UM1 - square - with air extraction

Ceiling cutout: 580 x 580



65. UM2 - linear

Ceiling cutout: -

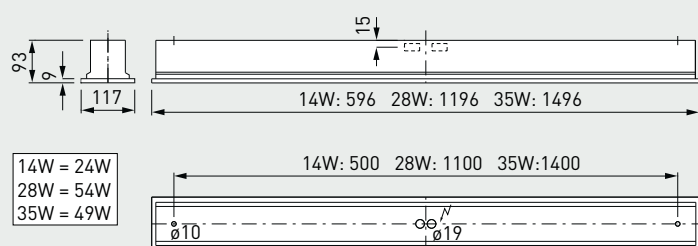


DIMENSIONAL SKETCHES

recessed luminaires

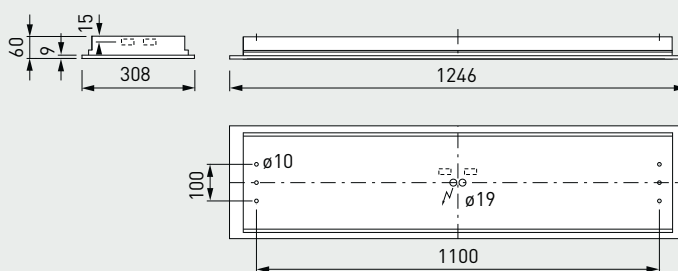
70. UT1 - linear - non-modular, 1 lamp

Ceiling cutout:
14/24W: 578 x 99
28/54W: 1178 x 99
35/49W: 1478 x 99



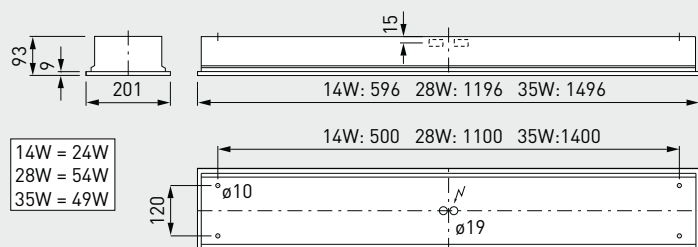
73. UT1 - linear - module 628

Ceiling cutout: -



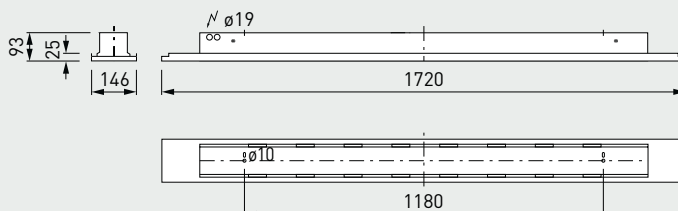
71. UT1 - linear - non-modular, 2-lamp

Ceiling cutout:
14/24W: 578 x 183
28/54W: 1178 x 183
35/49W: 1478 x 183



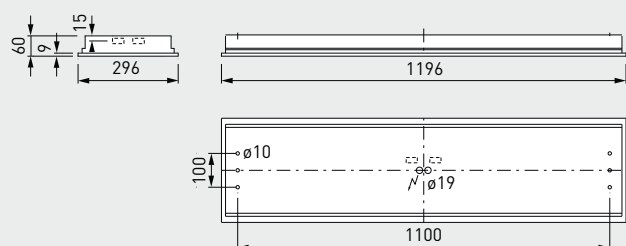
74. UT1 - linear - 'BANDRASTER'

Ceiling cutout: -



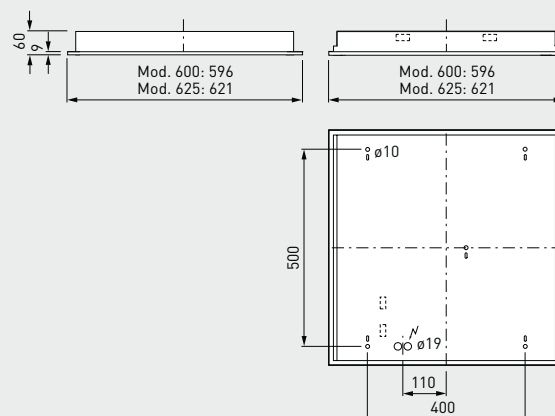
72. UT1 - linear - module 300

Ceiling cutout: 1178 x 278



75. UT1 - square - 1 x 14W / 3 x 14W / 4 x 14WT1

Ceiling cutout: -

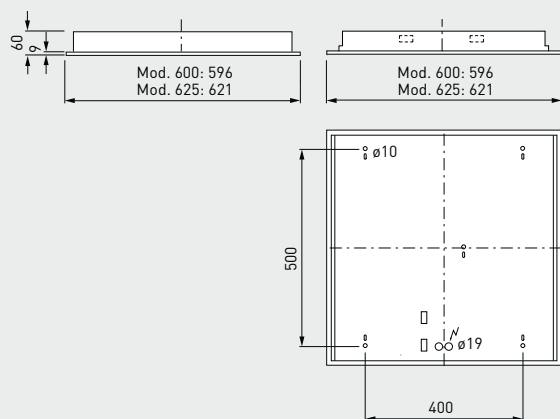


DIMENSIONAL SKETCHES

recessed luminaires

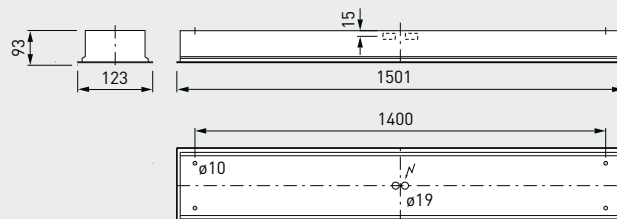
76. UT1 - square - 14W

Ceiling cutout: -



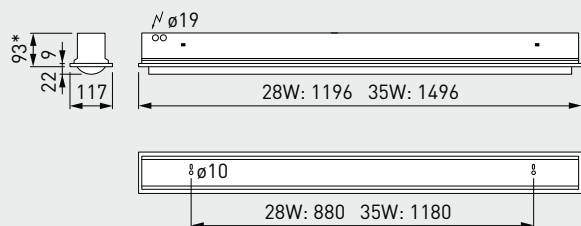
79. UT1 - linear with wafer trim - non-modular - 1 lamp

Ceiling cutout: 1485 x 110



77. UT1 - linear - HaloOptics® - non-modular

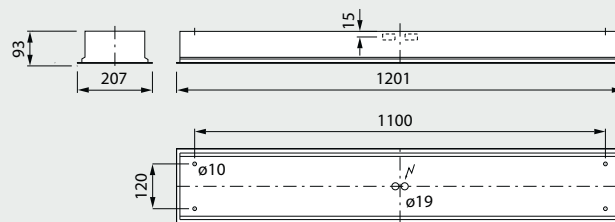
Ceiling cutout:
28W: 1177 x 105
35W: 1477 x 105



* with emergency unit: 98

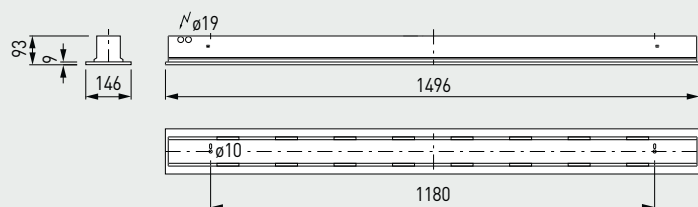
80. UT1 - linear with wafer trim - non-modular - 2 lamp

Ceiling cutout: 1185 x 194



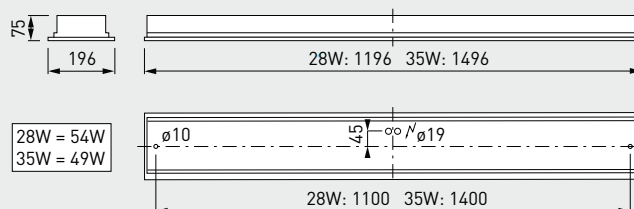
78. UT1 - linear - 35W - with air extraction

Ceiling cutout: 1480 x 120



90. UT6

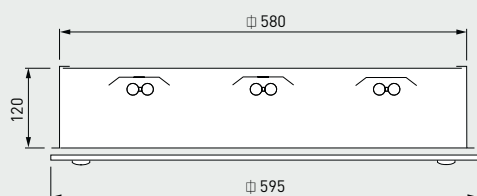
Ceiling cutout:
28W: 1184 x 165
35W: 1484 x 165



recessed luminaires

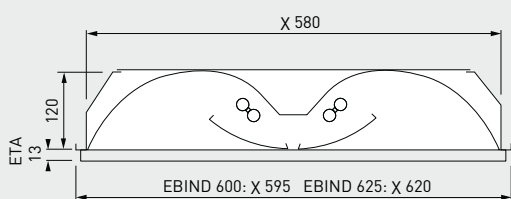
100. DALLE

Ceiling cutout: 580 x 580



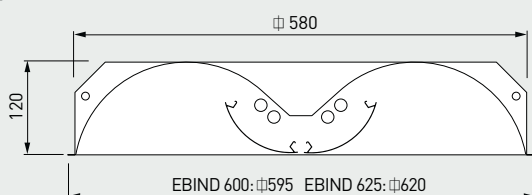
110. EBIND

Ceiling cutout: see sketch



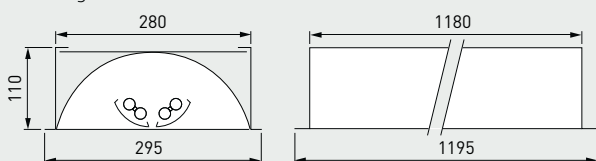
111. EBIND - with HaloOptics™

Ceiling cutout: see sketch



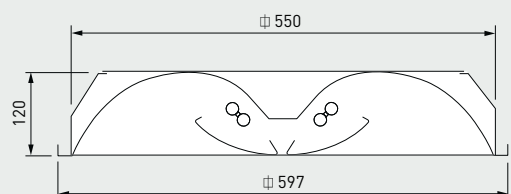
120. ECHO

Ceiling cutout: 1180 x 280



130. EDEN

Ceiling cutout: 550 x 550



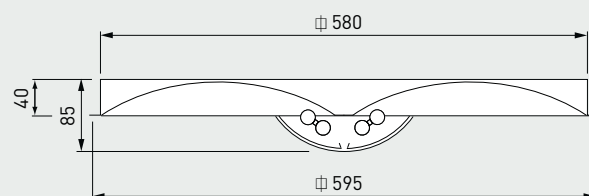
131. EHAD

Ceiling cutout: -



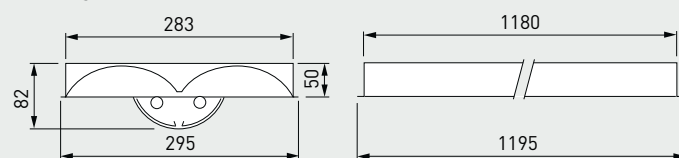
150. ELITE - square

Ceiling cutout: 580 x 580



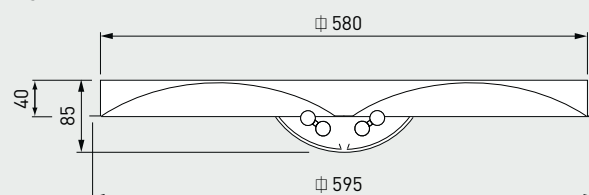
151. ELITE - linear

Ceiling cutout: 1185 x 285



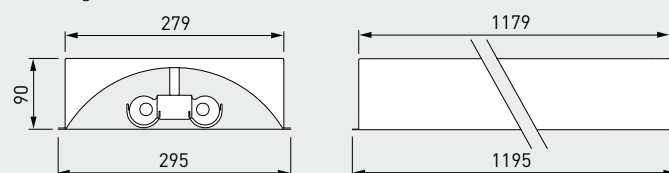
152. ELITE - square - with HaloOptics™

Ceiling cutout: 580 x 580



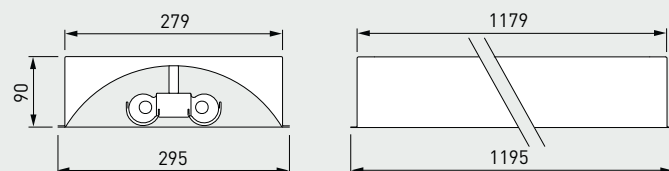
160. ENEXTRA

Ceiling cutout: 1179 x 279



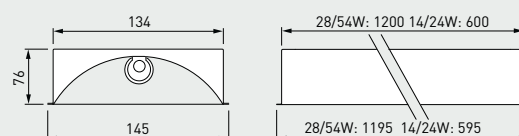
161. ENEXTRA - with HaloOptics™

Ceiling cutout: 1179 x 279



170. EPOLY

Ceiling cutout: 1185 x 285

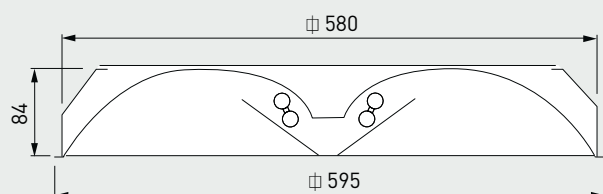


DIMENSIONAL SKETCHES

recessed luminaires

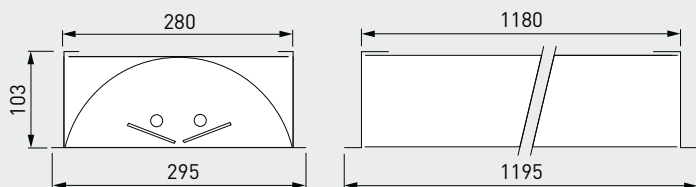
180. ETITA - square

Ceiling cutout: 580 x 580



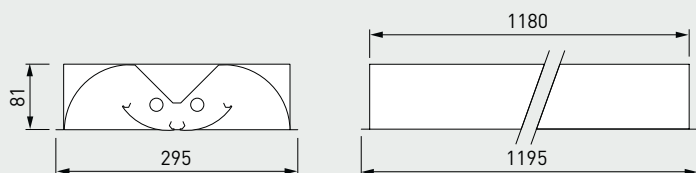
181. ETITA - linear

Ceiling cutout: 1180 x 280



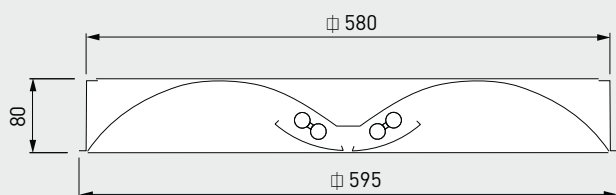
190. EVER - linear

Ceiling cutout: 1180 x 280



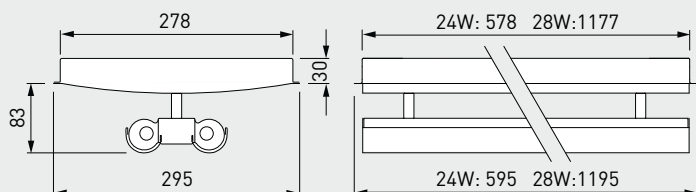
191. EVER - square

Ceiling cutout: 580 x 580



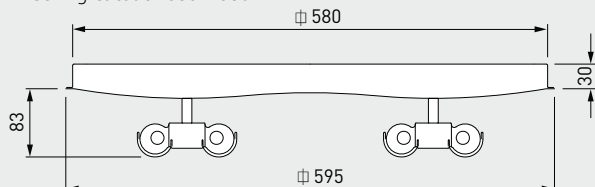
200. EXTRA - linear

Ceiling cutout: see sketch



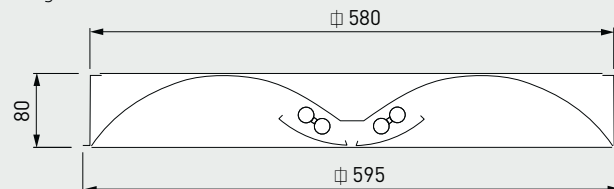
201. EXTRA - square

Ceiling cutout: 580 x 580



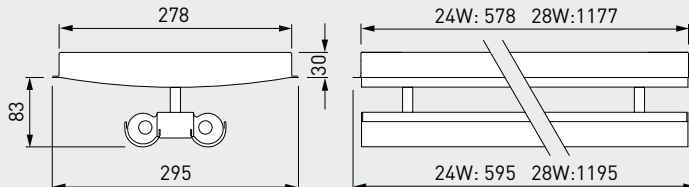
191. EVER - square

Ceiling cutout: 580 x 580



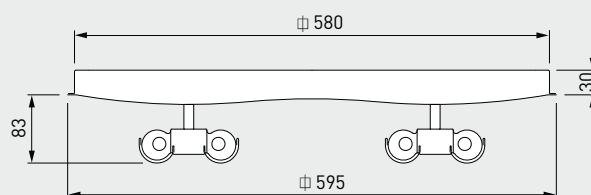
200. EXTRA - linear

Ceiling cutout: see sketch



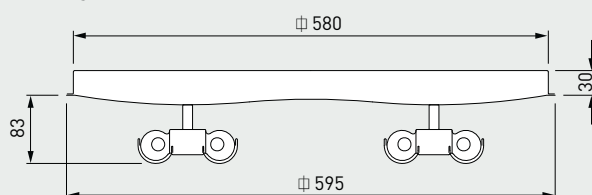
201. EXTRA - square

Ceiling cutout: 580 x 580



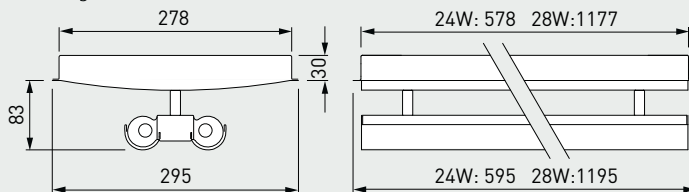
202. EXTRA - square - with HaloOptics™

Ceiling cutout: 580 x 580



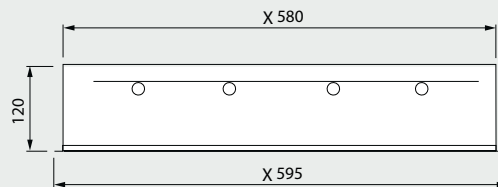
203. EXTRA - linear - with HaloOptics™

Ceiling cutout: see sketch



210. OPTART

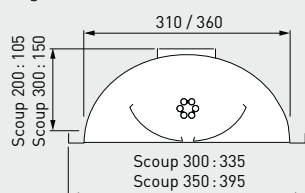
Ceiling cutout: 580 x 580



recessed luminaires

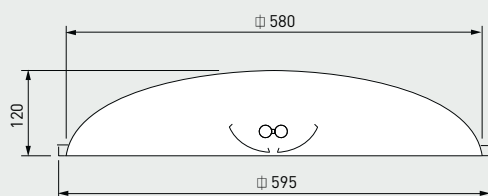
220. SCOUP - rond - 300/350

Ceiling cutout: see sketch



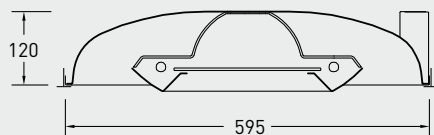
221. SCOUP - square - TC-L - 55W

Ceiling cutout: see sketch



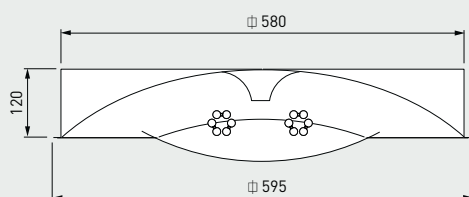
225. SKY

Ceiling cutout: see sketch



230. VELA

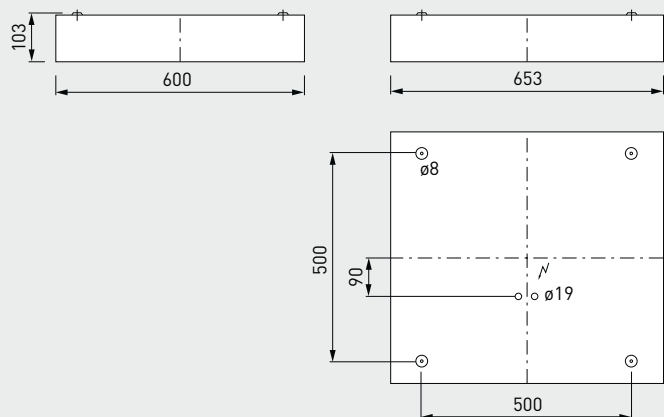
Ceiling cutout: see sketch



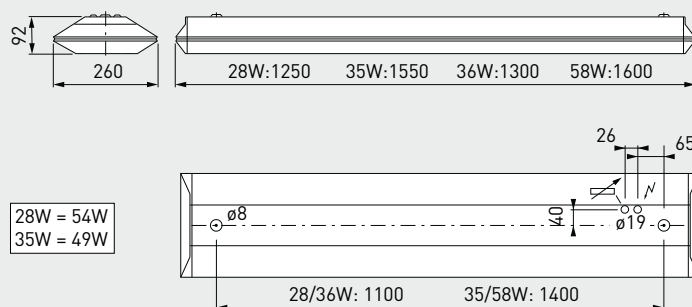
DIMENSIONAL SKETCHES

surface and suspended luminaires

300. R1 - square

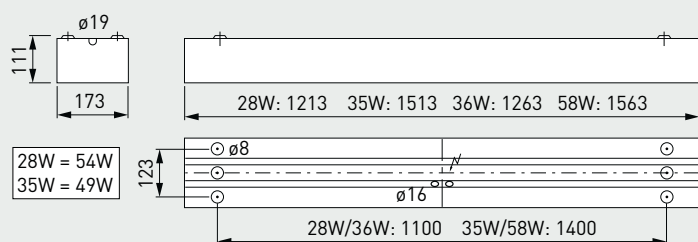


310. R2 - surface - individual



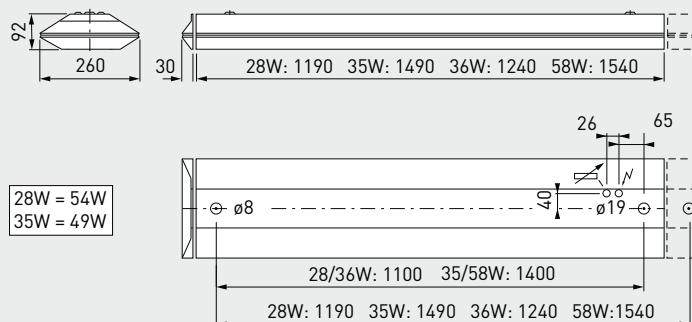
28W = 54W
35W = 49W

301. R1 - linear - 1 compartment reflector



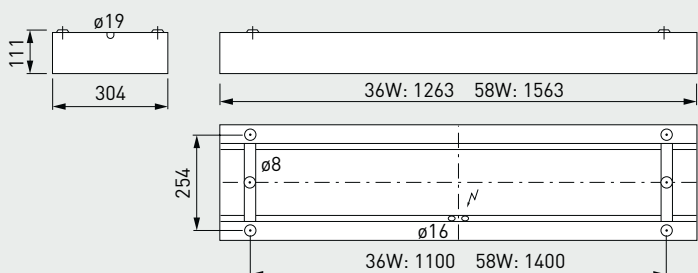
28W = 54W
35W = 49W

311. R2 - surface - in line

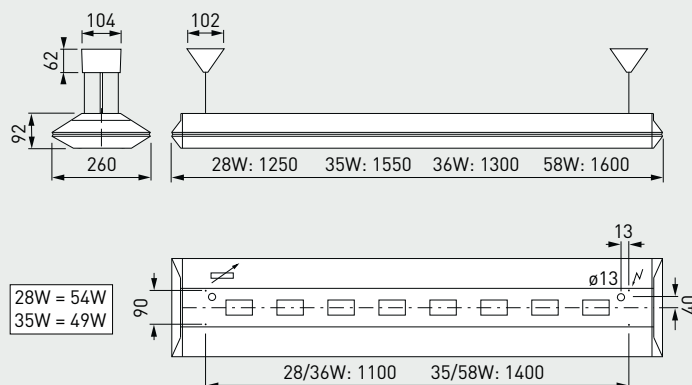


28W = 54W
35W = 49W

302. R1 - linear - 2 compartment reflector



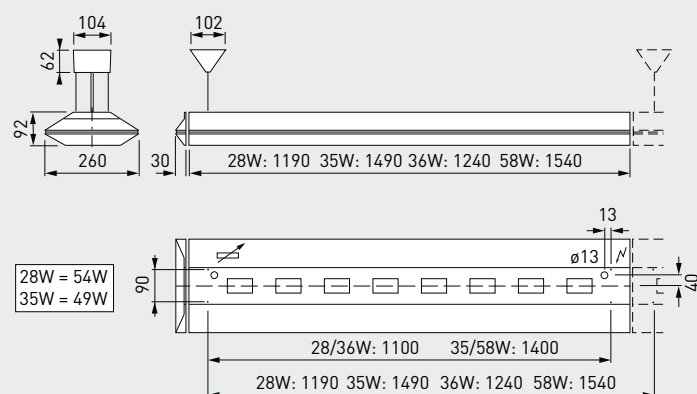
312. R2 - suspension - individual



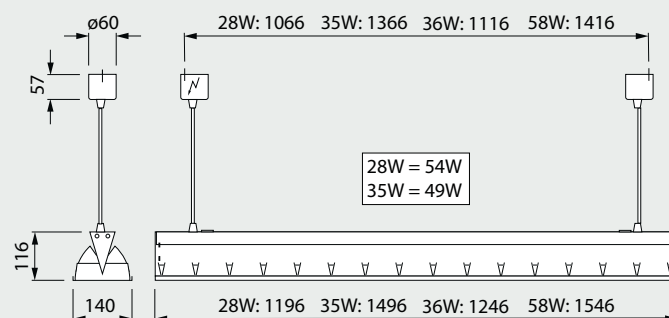
28W = 54W
35W = 49W

surface and suspended luminaires

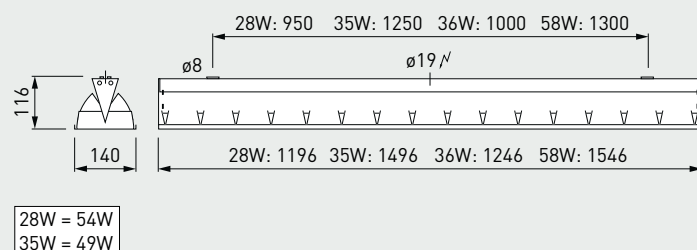
313. R2 - suspension - in line



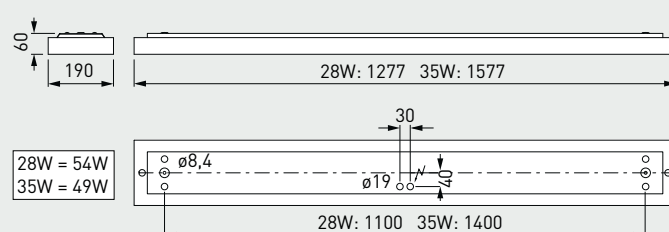
332. R3 - suspension with cables



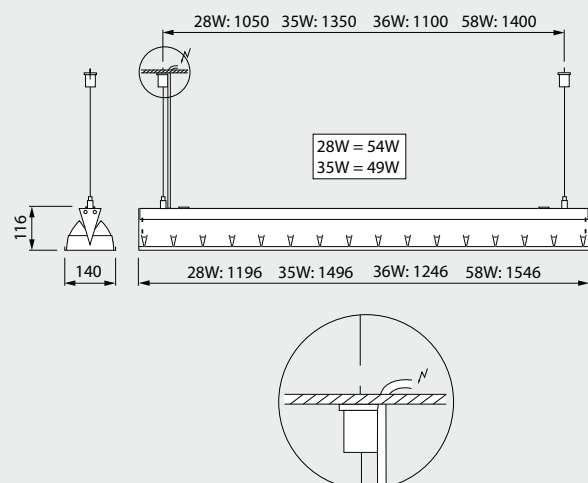
330. R3 - surface



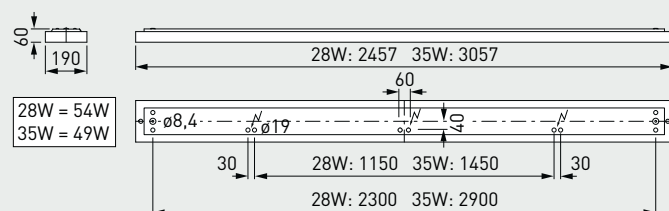
350. R4 - surface - linear - individual, single lamp length



331. R3 - steel wire suspension



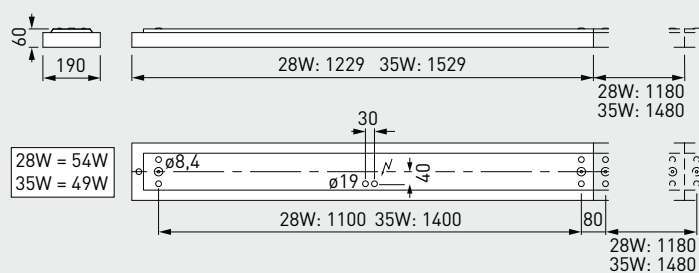
351. R4 - surface - linear - individual, double lamp length



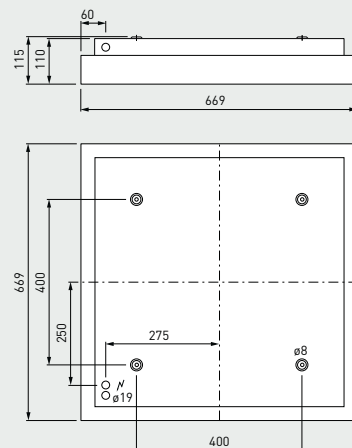
DIMENSIONAL SKETCHES

surface and suspended luminaires

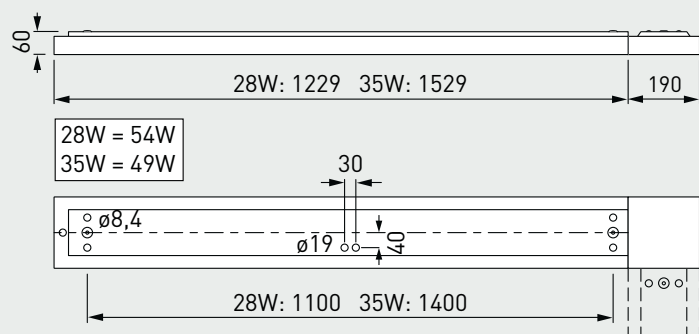
352. R4 - surface - linear - in line



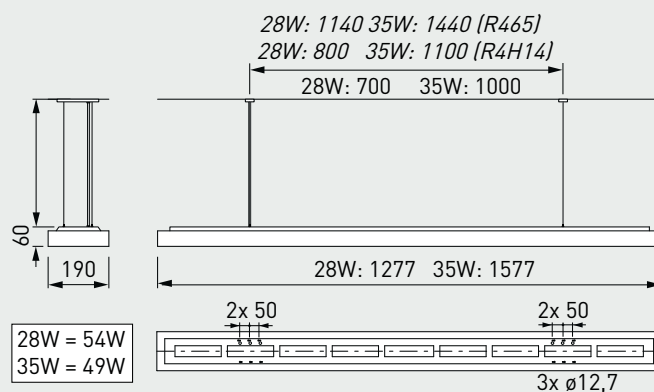
355. R4M - surface - square



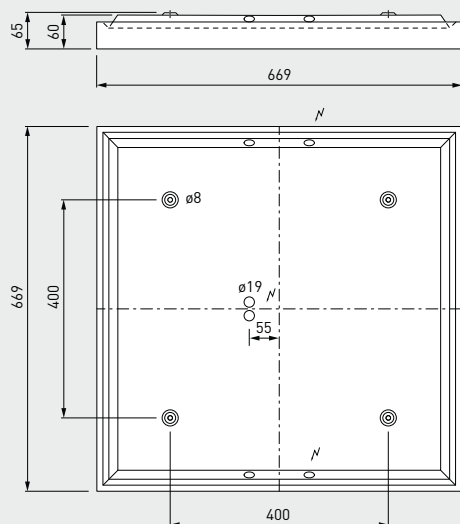
353. R4 - surface - linear - in line angular 90°, single lamp length



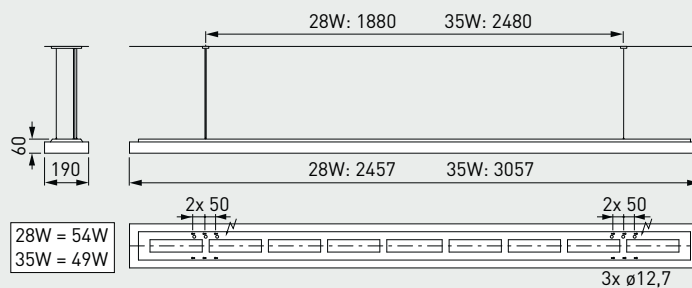
356. R4 - suspension - linear - individual, single lamp length



354. R48 - surface - square

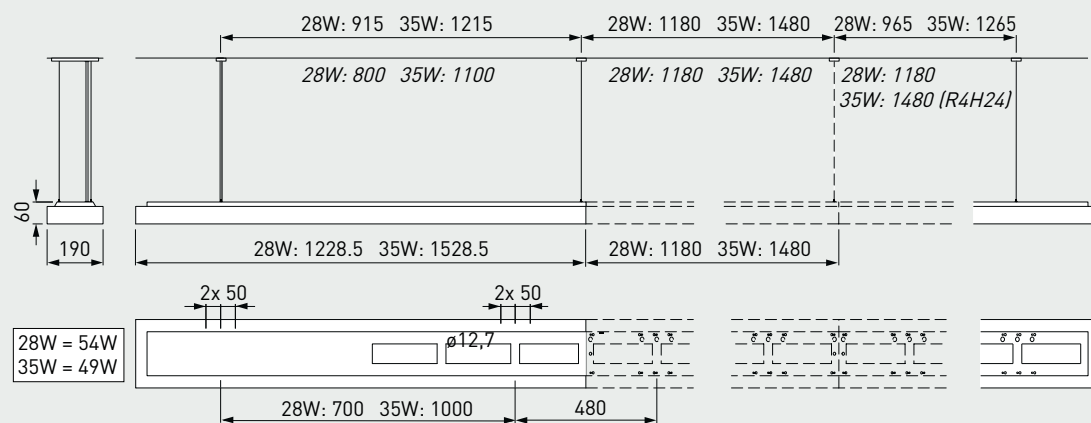


357. R4 - suspension - linear - individual, double lamp length

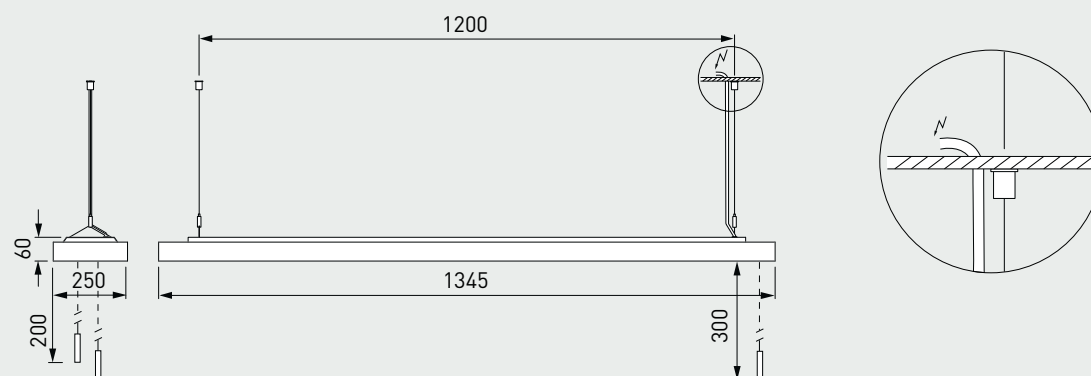


surface and suspended luminaires

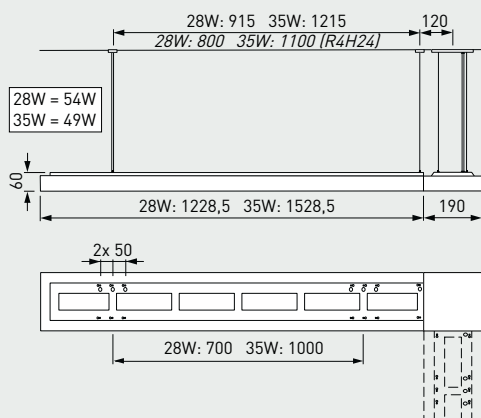
358. R4 - suspension - linear - in line



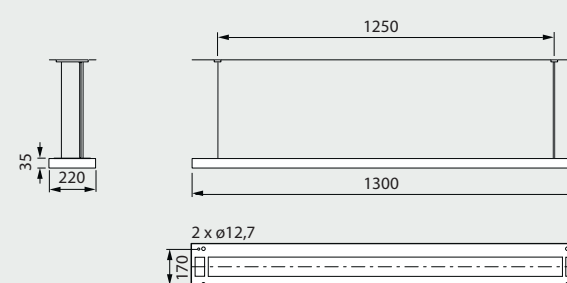
359. R49



360. R4 - suspension - linear - in line, angular 90°



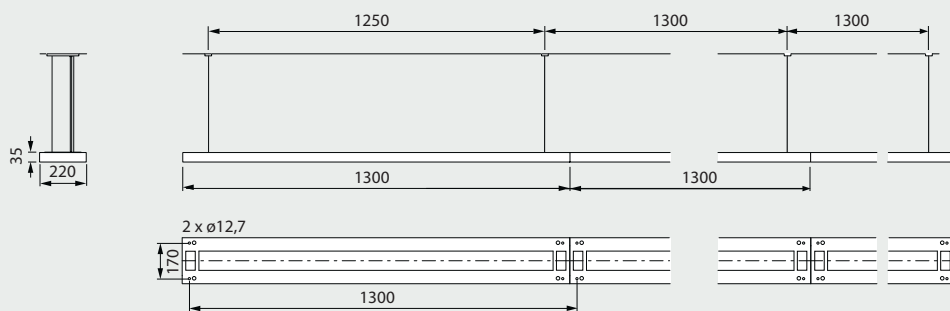
400. R5 - suspension - linear - individual - diffuser



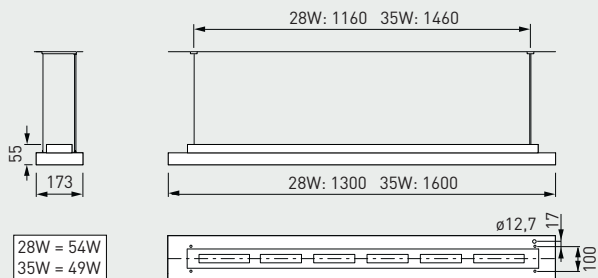
DIMENSIONAL SKETCHES

surface and suspended luminaires

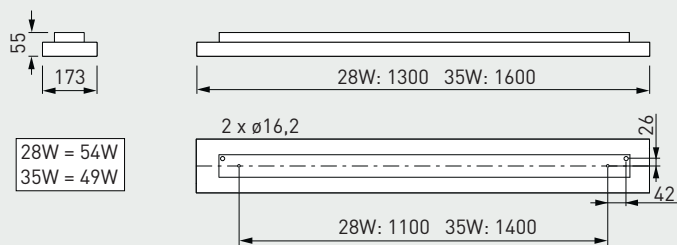
401. R5 - suspension - linear - in line - diffuser



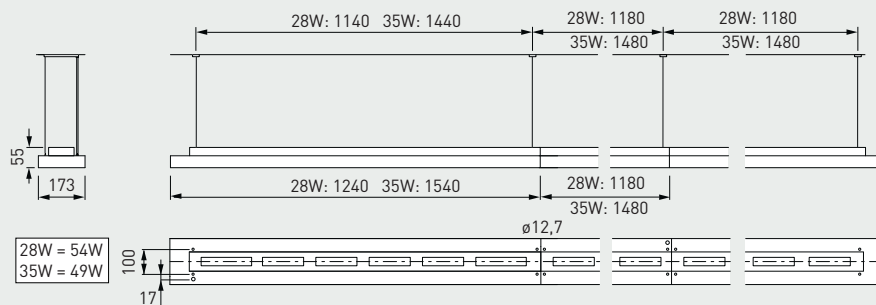
402. R5 - suspension - linear - individual - reflector



404. R5 - surface - linear - individual - reflector

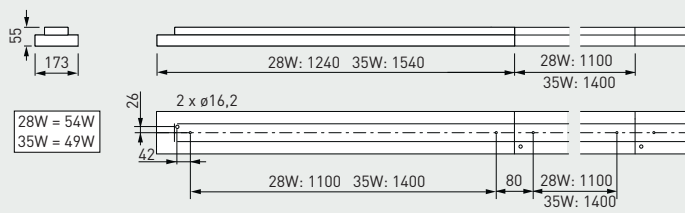


403. R5 - suspension - linear - in line - reflector

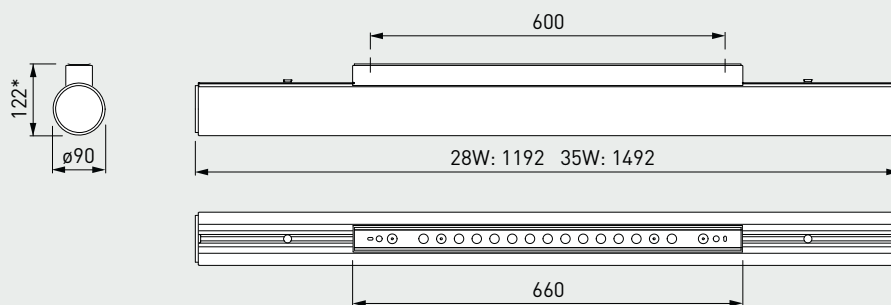


surface and suspended luminaires

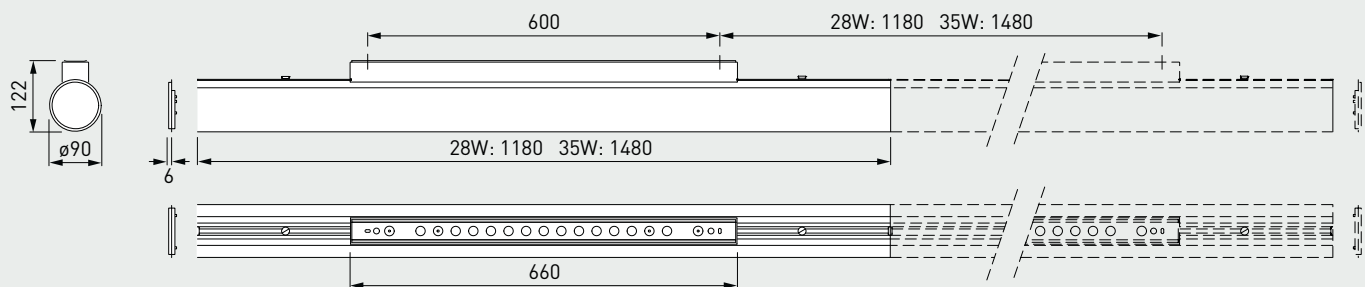
405. R5 - surface - in line - reflector



450. R8 - surface - individual / *version with 3h emergency unit: 130



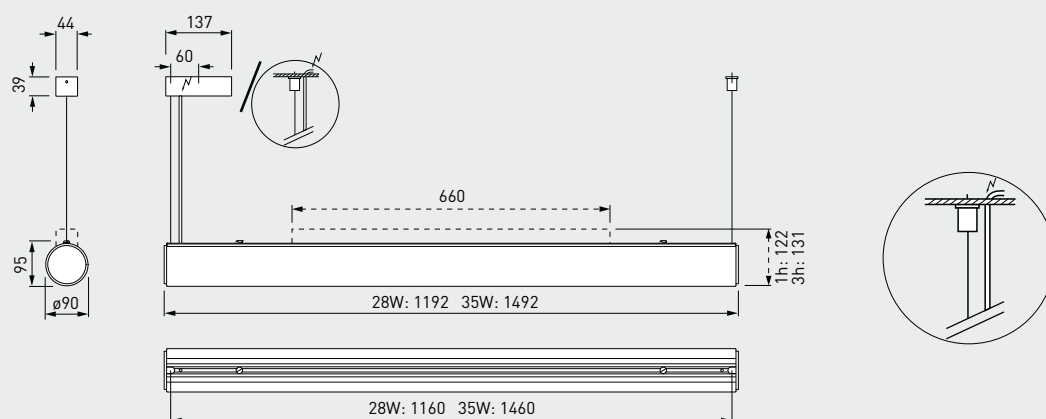
451. R8 - surface - in line



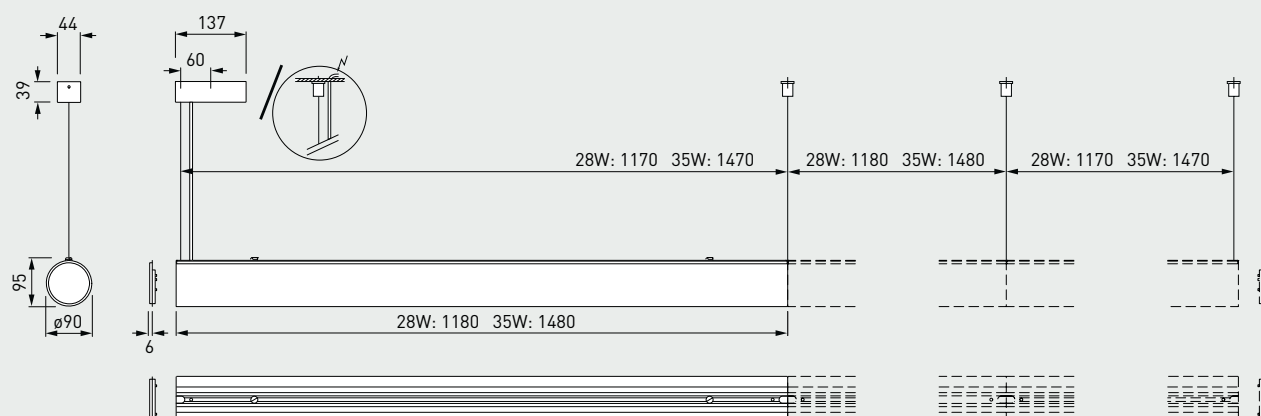
DIMENSIONAL SKETCHES

surface and suspended luminaires

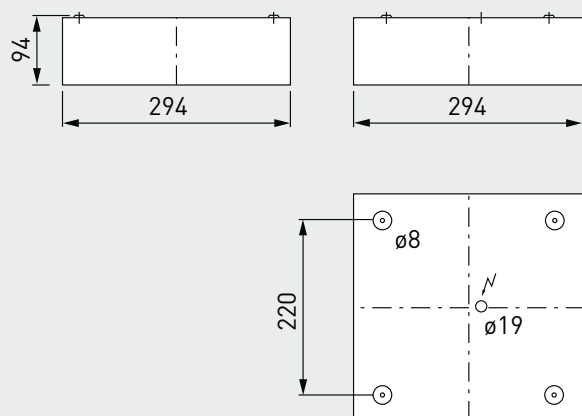
452. R8 - suspension - individual / ----- version with emergency unit



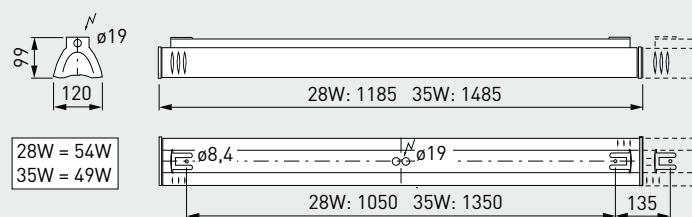
453. R8 - suspension - in line



490. RJ55



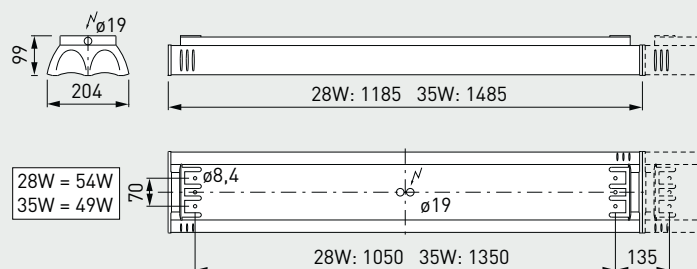
500. RT1 - 1 compartment reflector



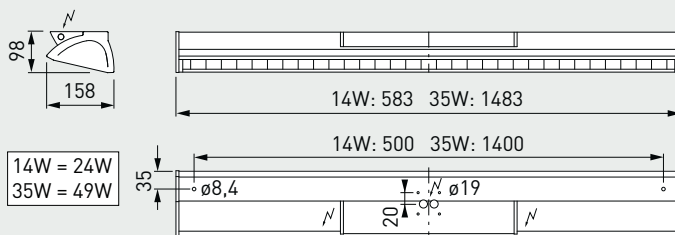
DIMENSIONAL SKETCHES

surface and suspended luminaires

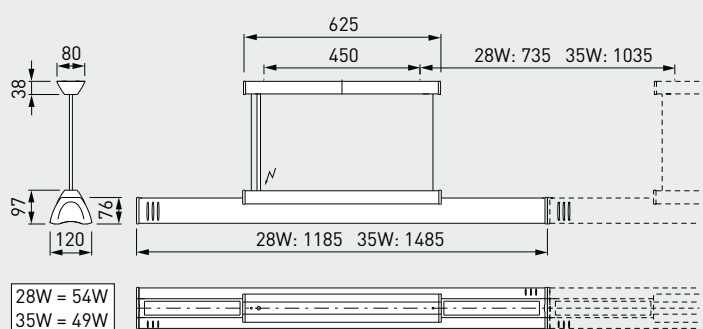
501. RT1 - 2 compartment reflector



700. RT6



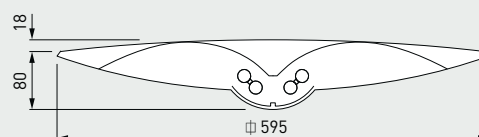
600. RT2 - 1 compartment reflector



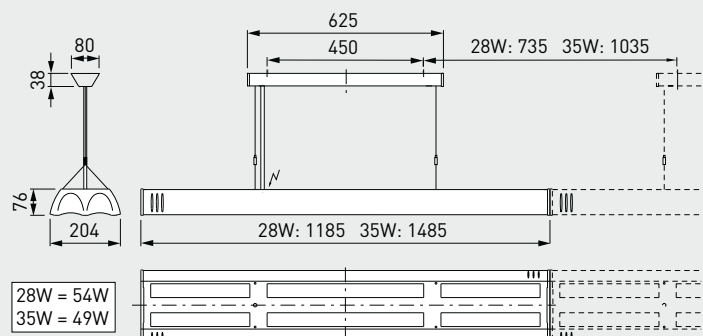
710. EGAL - square - 360



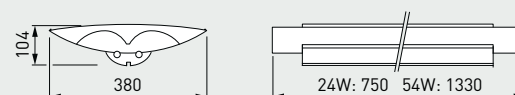
711. EGAL - square - 600



601. RT2 - 2 compartment reflector



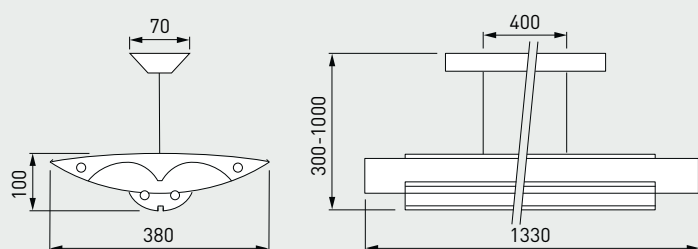
712. EGAL - surface - linear - T5 - ϕ 16 mm



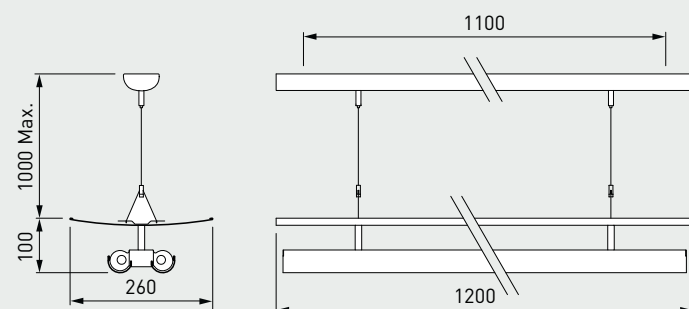
DIMENSIONAL SKETCHES

surface and suspended luminaires

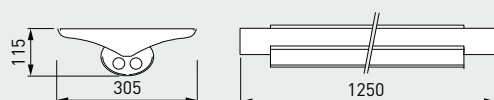
713. EGAL - suspension



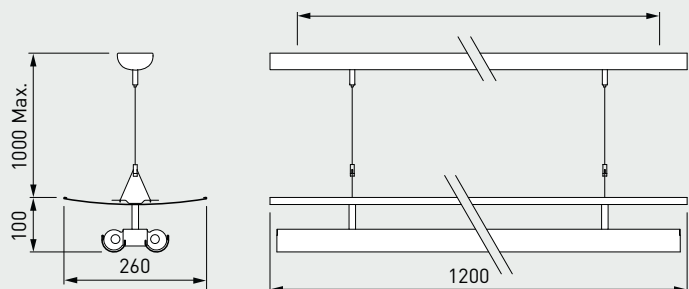
750. SEXTRA



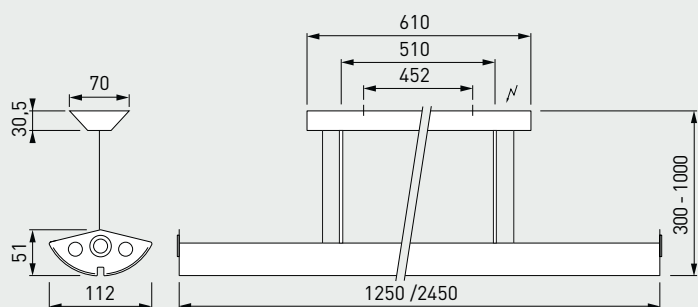
720. ELAN



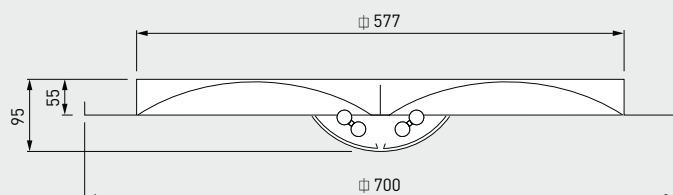
751. SEXTRA - met HaloOptics™



730. FUZO

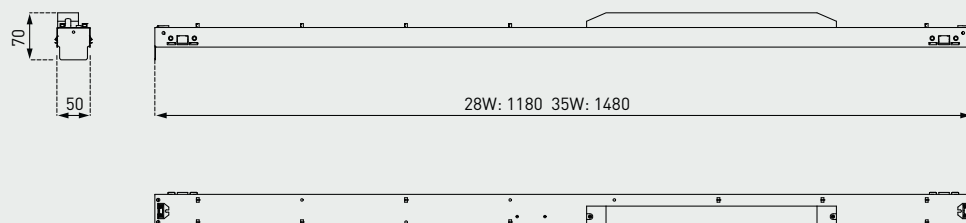


740. OELITE

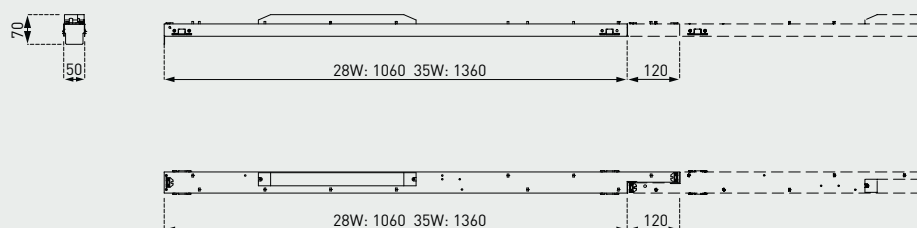


modular systems

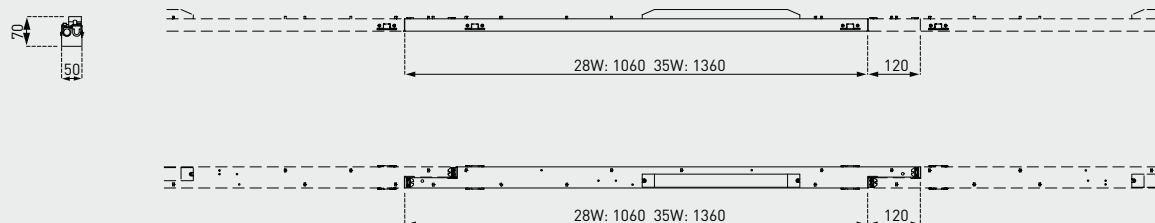
850. KARDÓ 60 - diffuser - individual



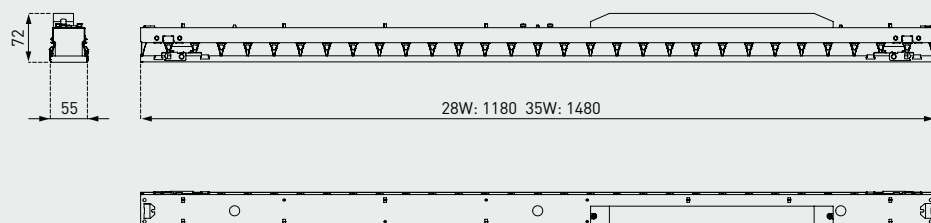
851. KARDÓ 60 - diffuser - in line - end piece



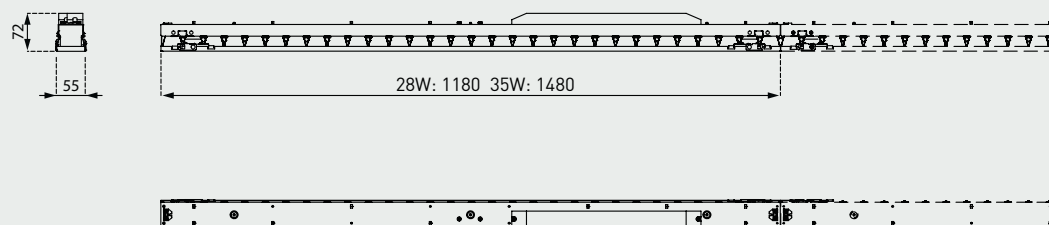
852. KARDÓ 60 - diffuser - in line - middle



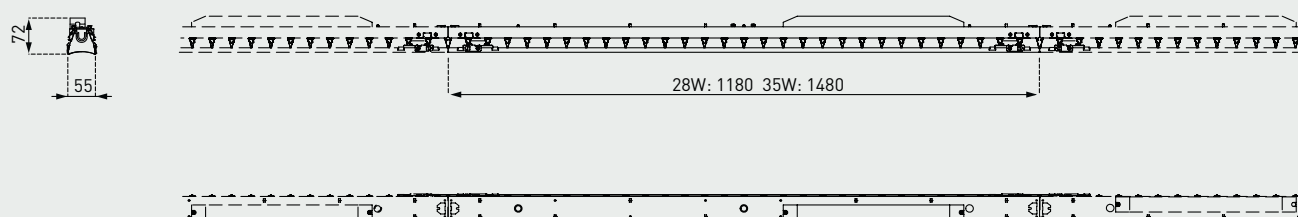
853. KARDÓ 60 - Equilum®-reflector - individual



854. KARDÓ 60 - Equilum®-reflector - in line - end piece



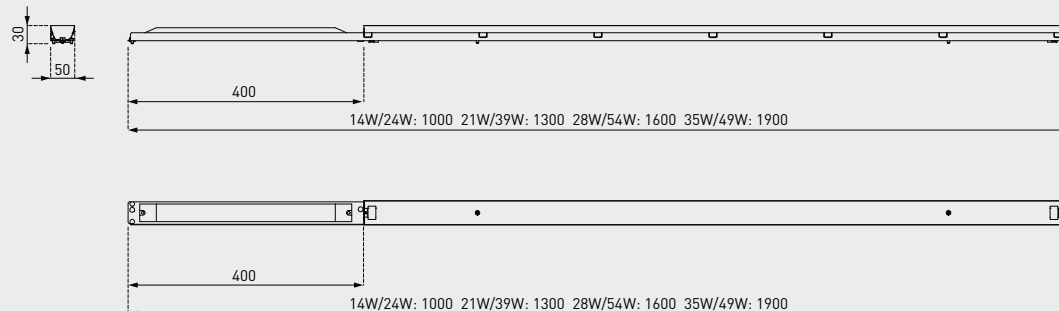
855. KARDÓ 60 - Equilum®-reflector - in line - middle



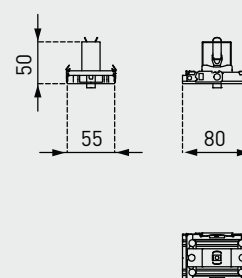
DIMENSIONAL SKETCHES

modular systems

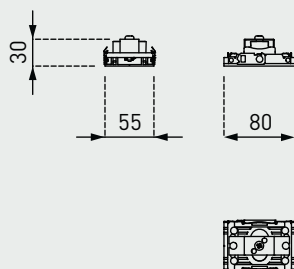
856. KARDÓ 60 - uplight



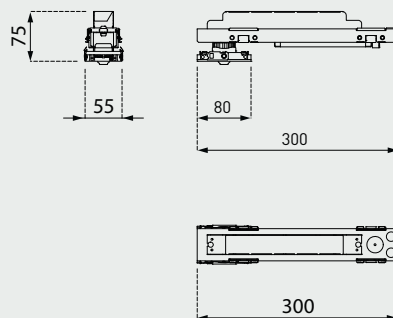
856. KARDÓ 60 - with ELS



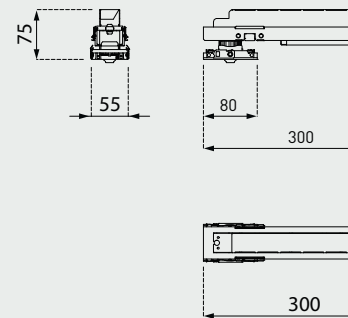
857. KARDÓ 60 - with EMD



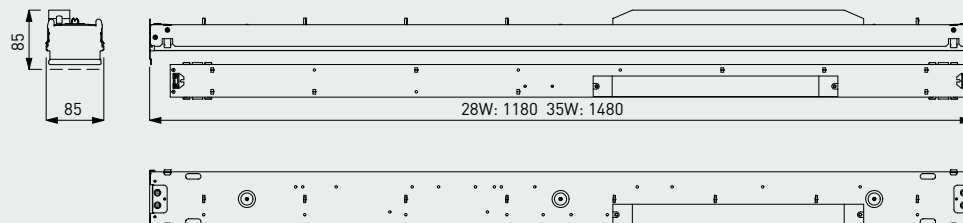
857. KARDÓ 60 - with K9 anti-panic



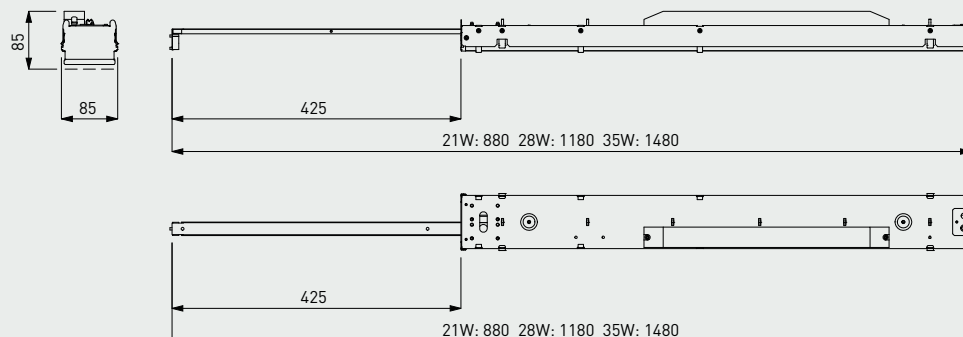
857. KARDÓ 60 - with K9 anti-panic



858. KARDÓ 90 - diffuser - individual

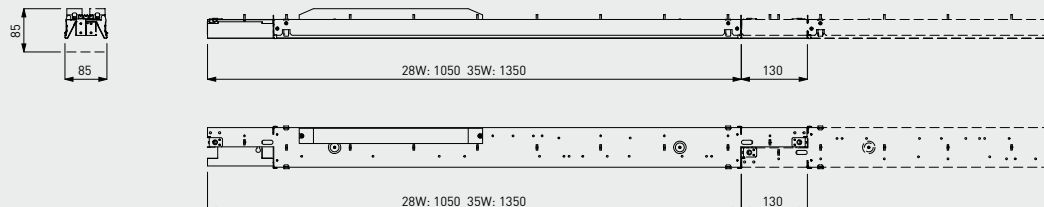


859. KARDÓ 90 - diffuser - filling plate



modular systems

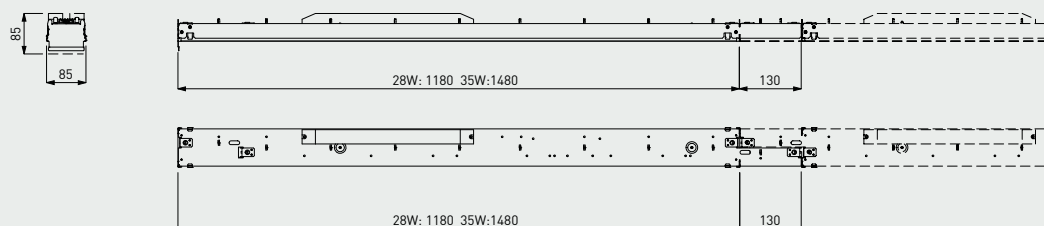
860. KARDÓ 90 - diffuser - in line - 1 lamp - end piece



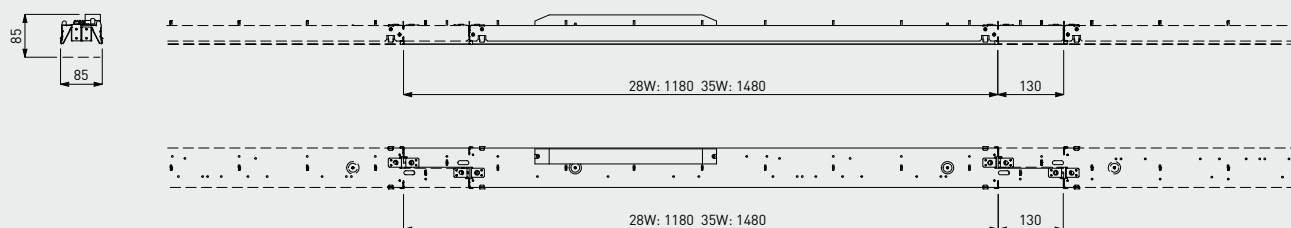
861. KARDÓ 90 - diffuser - in line - 1 lamp - middle



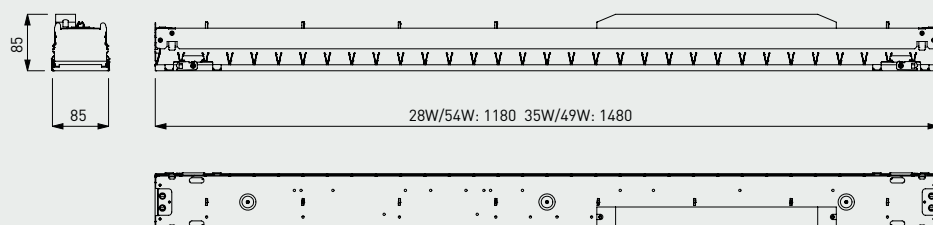
862. KARDÓ 90 - diffuser - in line - 2 lamp - end piece



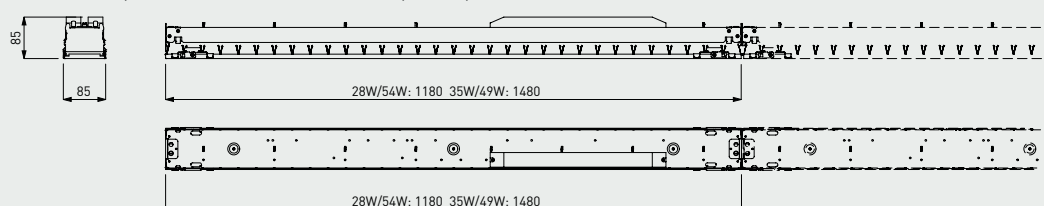
863. KARDÓ 90 - diffuser - in line - 2 lamp - middle



864. KARDÓ 90 - Equilum®-reflector - individual



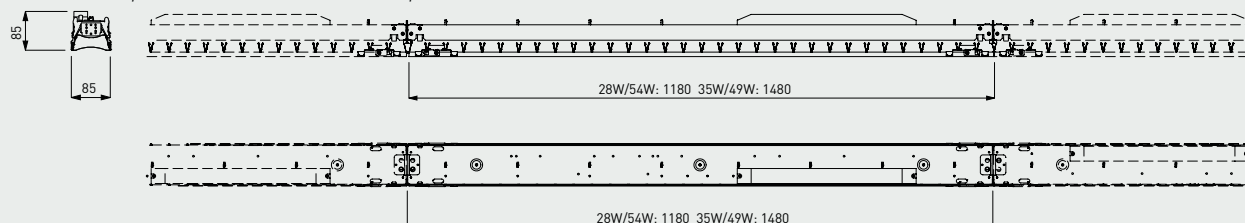
865. KARDÓ 90 - Equilum®-reflector - in line - 1 lamp - end piece



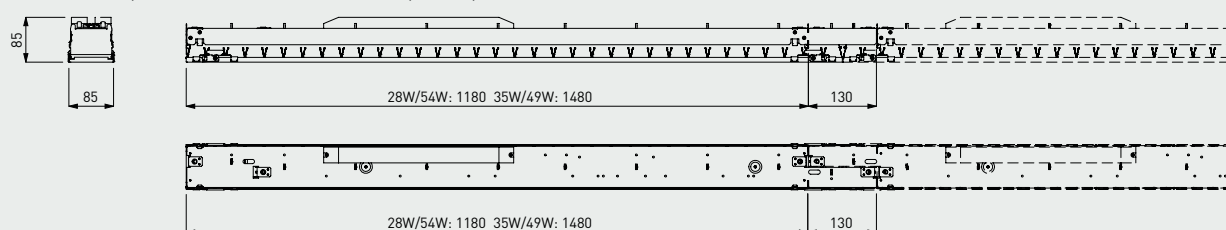
DIMENSIONAL SKETCHES

modular systems

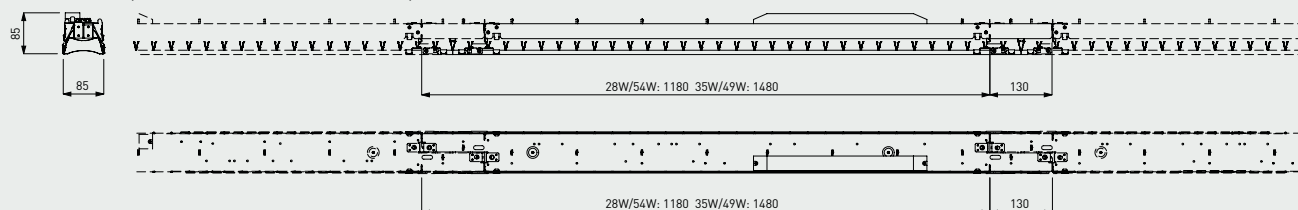
866. KARDÓ 90 - Equilum®-reflector - in line - 1 lamp - middle



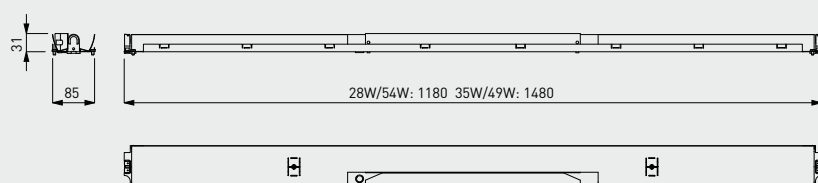
867. KARDÓ 90 - Equilum®-reflector - in line - 2 lamp - end piece



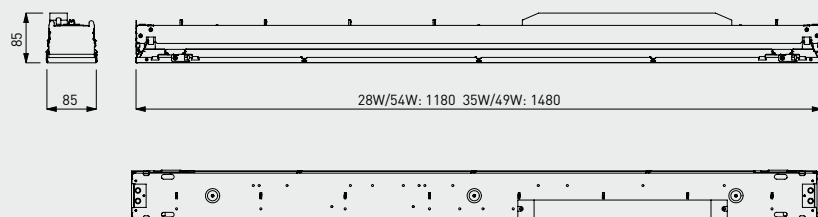
868. KARDÓ 90 - Equilum®-reflector - in line - 2 lamp - middle



869. KARDÓ 90 - uplight

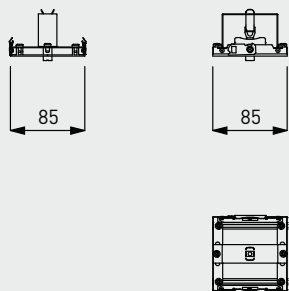


870. KARDÓ 90 - wallwasher

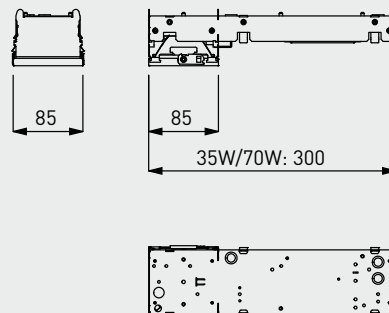


modular systems

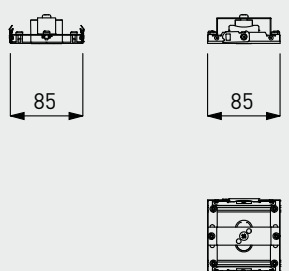
871. KARDÓ 90 - with ELS



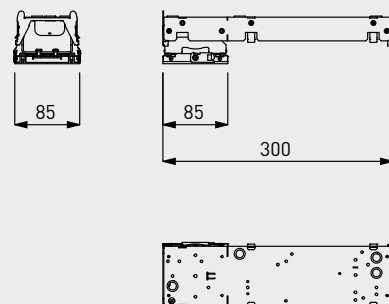
876. KARDÓ 90 - with fixed spot



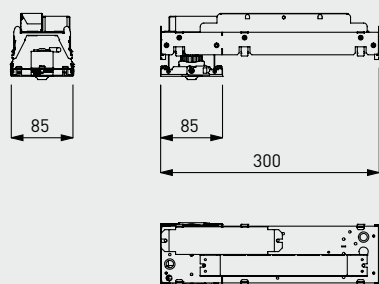
872. KARDÓ 60 - with EMD



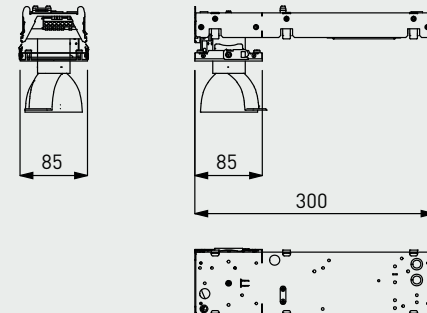
877. KARDÓ 90 - with fixed LED spot



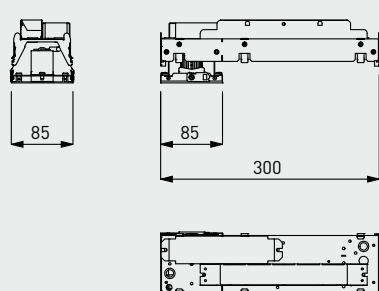
873. KARDÓ 90 - with K9 anti-panic



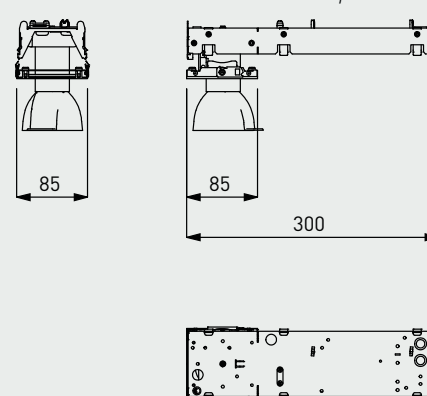
878. KARDÓ 90 - with directional spot



874. KARDÓ 90 - with K9 escape route



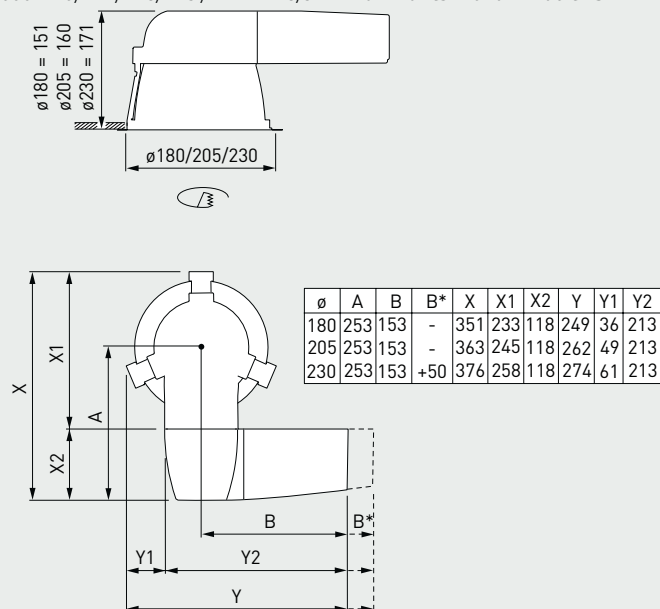
879. KARDÓ 90 - with directional LED spot



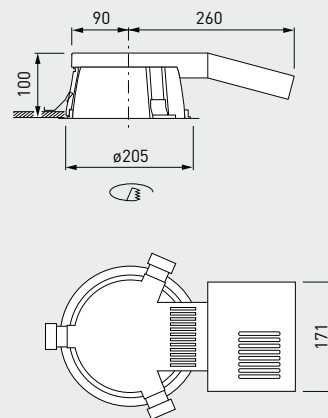
DIMENSIONAL SKETCHES

downlights

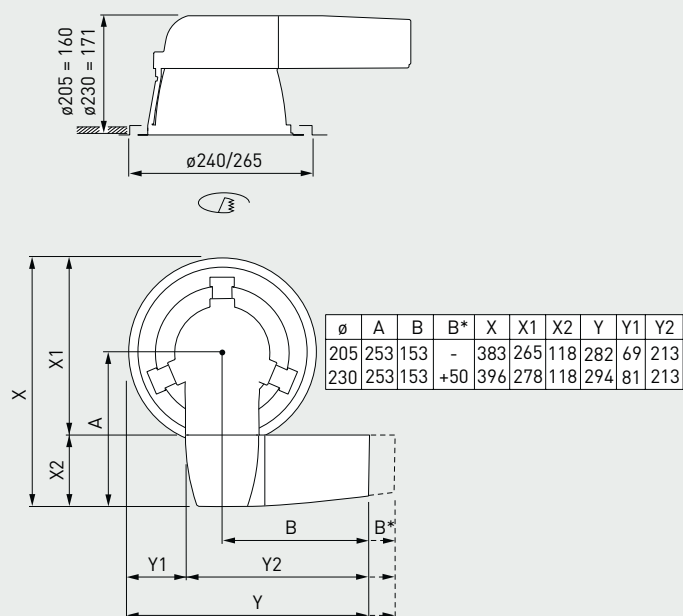
1000. D10/D12/D16/D18 / B* = 2x 26/32W - luminaires with dimmable VSA



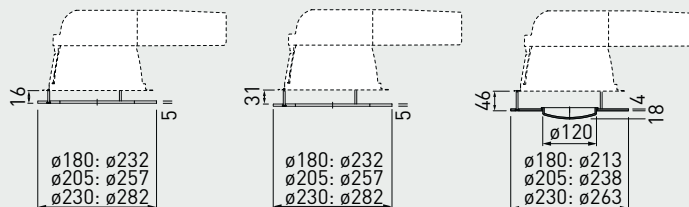
1002. D14



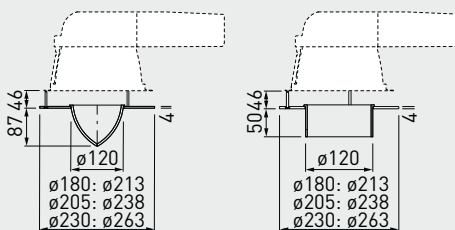
1001. D10/D12/D16/D18 - with air extraction / B* = 2x 23/32W luminaires with dimmable VSA



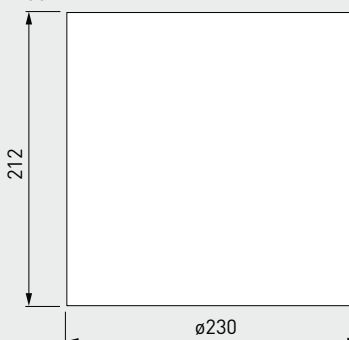
1003. D1 - with option frosted disk and glass ring + option oasis



1003. D1 - with option cone and cylinder

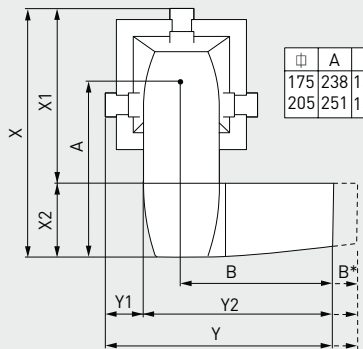
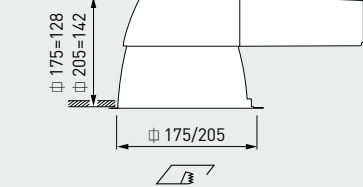


1100. D2



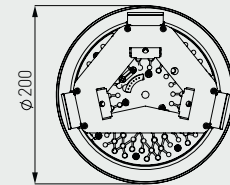
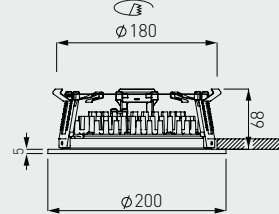
downlights

1200. D3 / B* = 2x 23/32W-luminaires with dimmable VSA

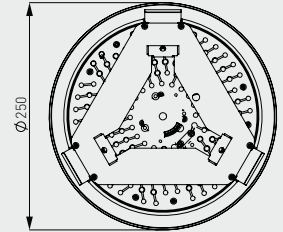
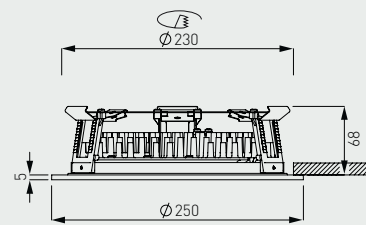


Φ	A	B	B*	X	X1	X2	Y	Y1	Y2
175	238	153	-	349	231	118	263	50	213
205	251	153	+50	376	258	118	278	65	213

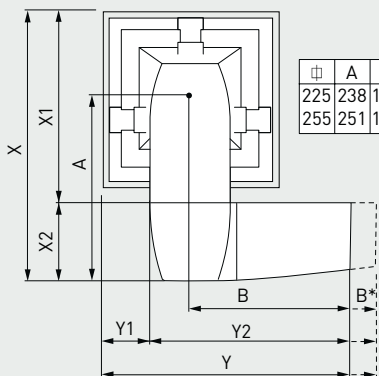
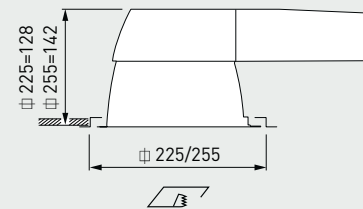
1300. D4 - 20W



1301. D4 - 39W

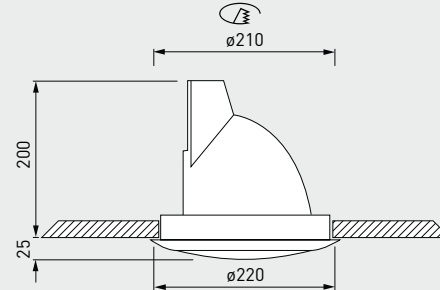


1201. D3 - with air extraction / B* = 2x 26/32W-luminaires with dimmable VSA

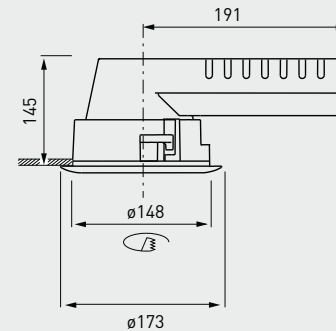


Φ	A	B	B*	X	X1	X2	Y	Y1	Y2
225	238	153	-	374	256	118	283	70	213
255	251	153	+50	401	283	118	278	65	213

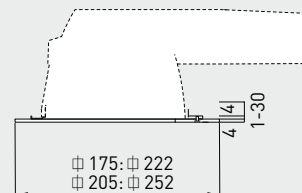
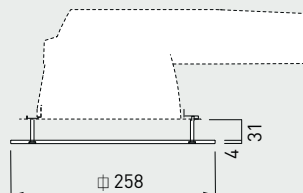
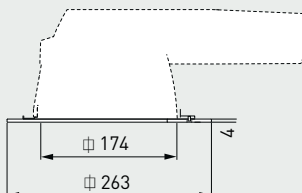
1400. D5 - Sextant



1405. D9



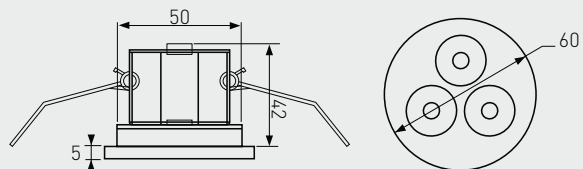
1202. D3 - with option glass border / glass plate / IP44



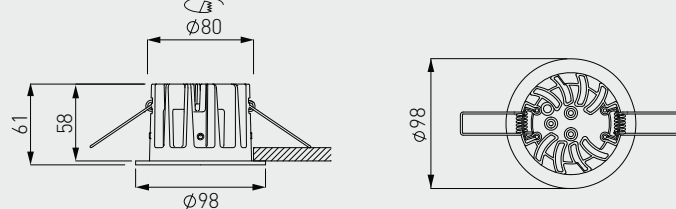
DIMENSIONAL SKETCHES

spots

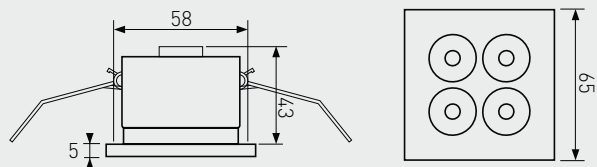
2040. DIPP 3



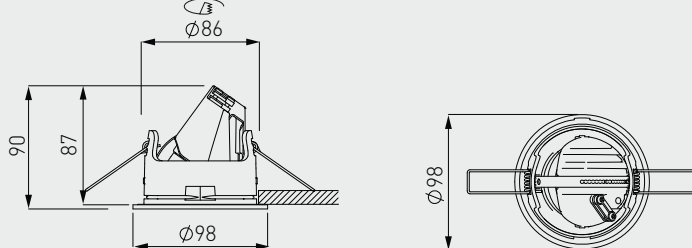
2045. FLARE - fixed



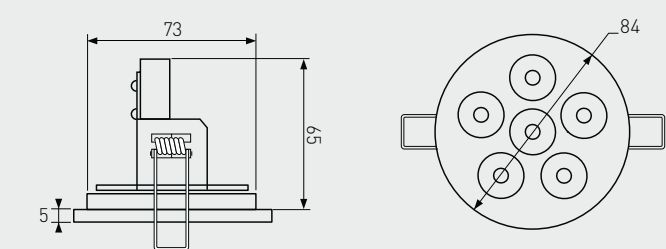
2041. DIPP 4



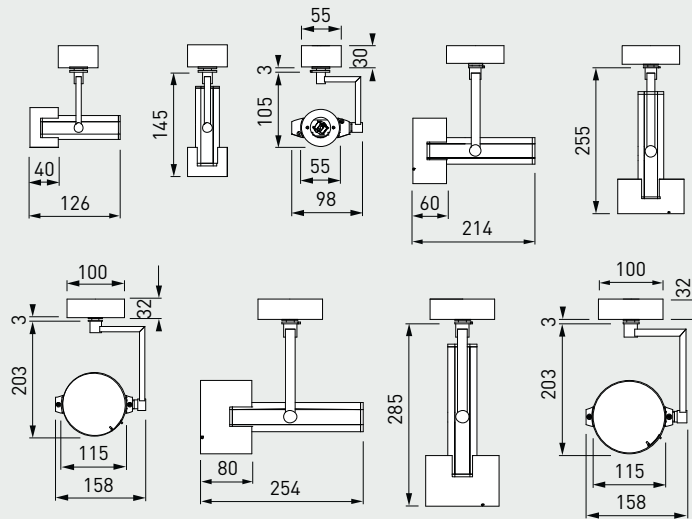
2046. FLARE - directional



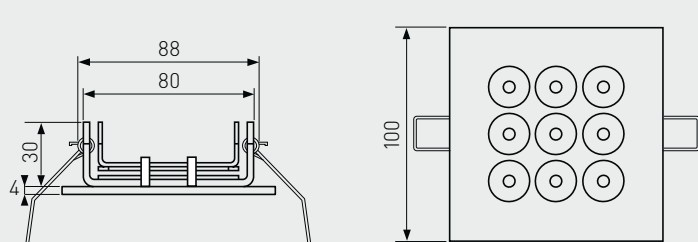
2042. DIPP 6



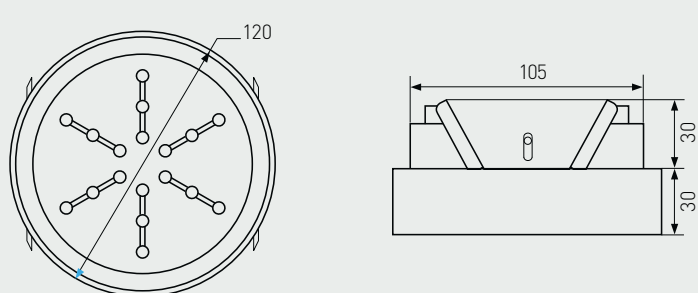
2050. FS1



2043. DIPP 9



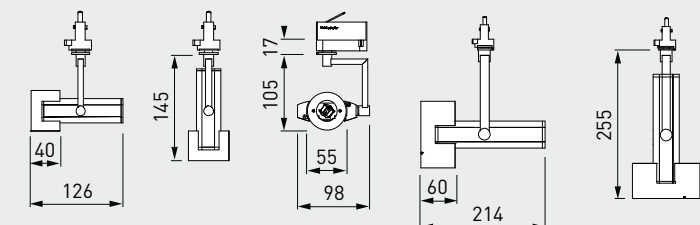
2044. FACTOR



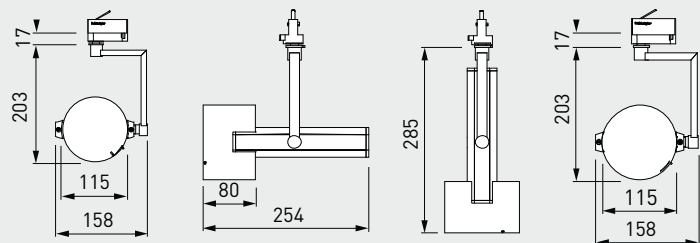
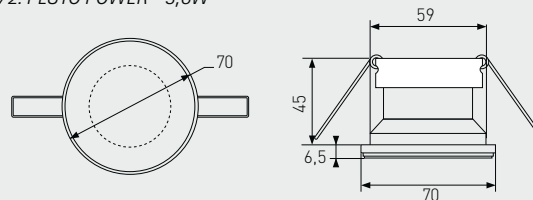
DIMENSIONAL SKETCHES

spots

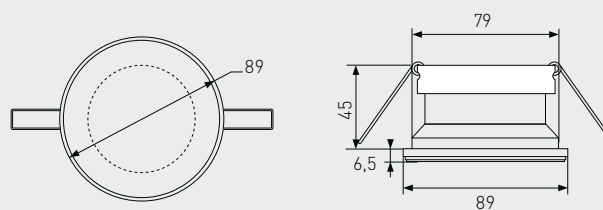
2060. FS2



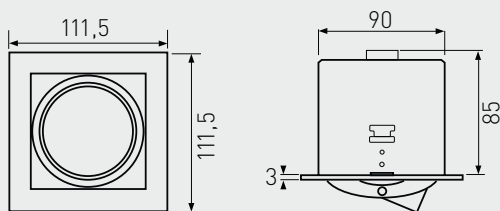
2072. PLUTO POWER - 3,6W



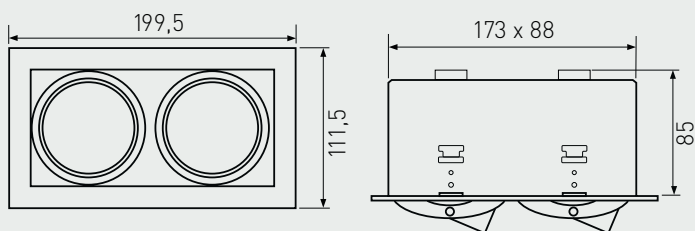
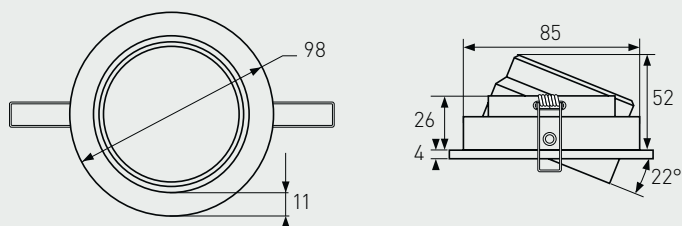
2073. PLUTO POWER - 7,2W



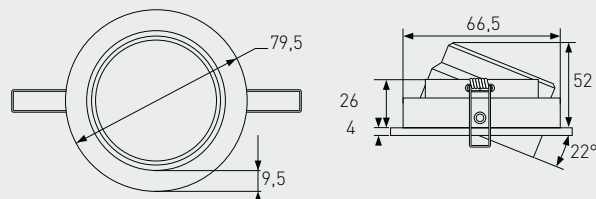
2070. MILKY-WAY



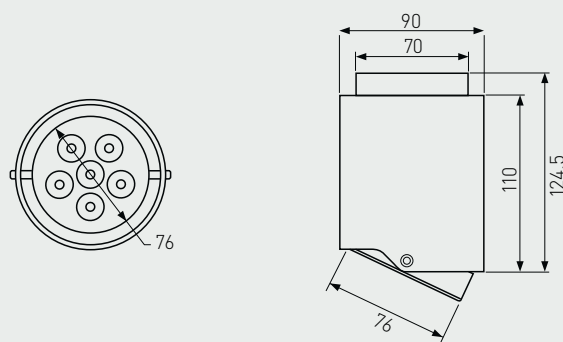
2074. PLUTO MOVE - 3,6W



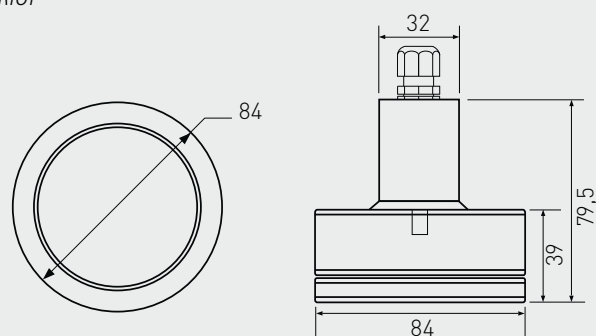
2075. PLUTO MOVE - 7,2W



2071. PHARE



2076. RIOT

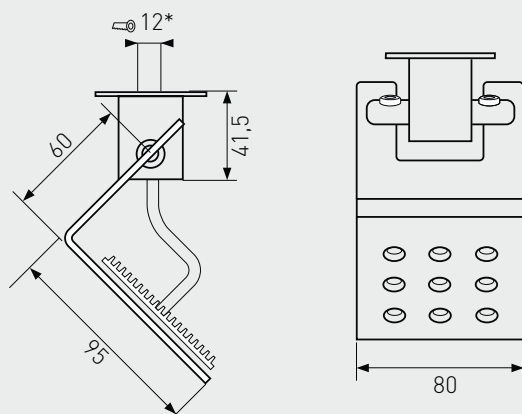


DIMENSIONAL SKETCHES

spots

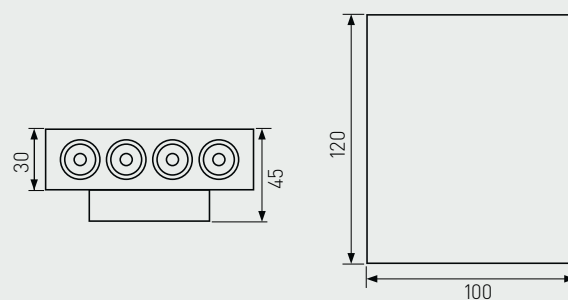
wall luminaires

2077. SQUAD

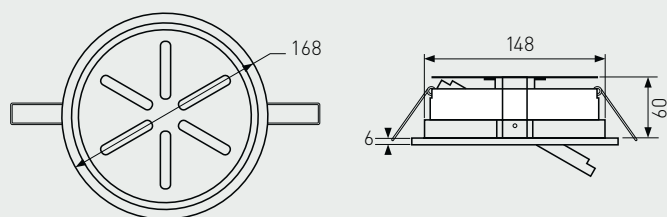


* Dimensions of the power supply (L x W x H): 99 x 39 x 24 mm

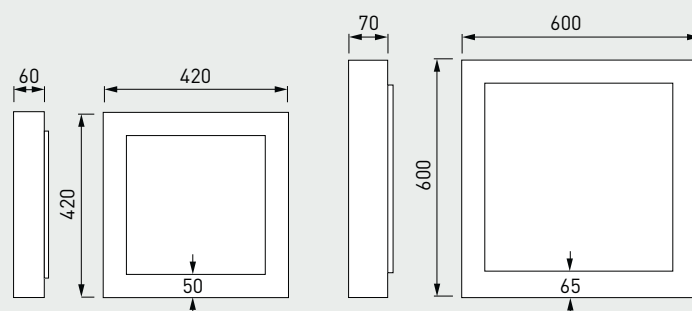
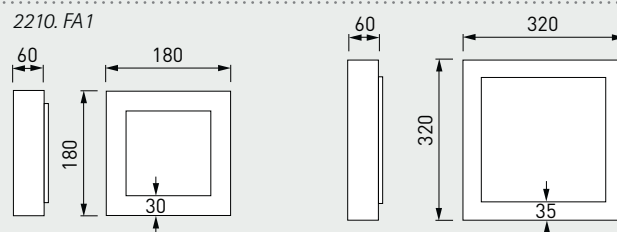
2209. BLOQ



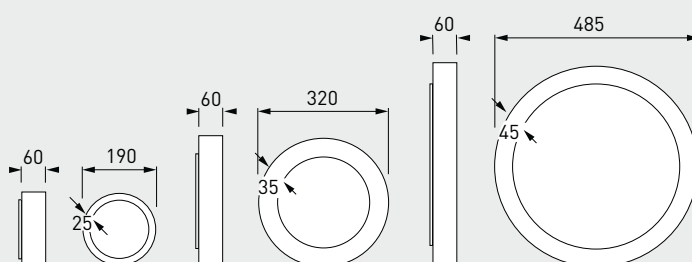
2078. STARKY



2210. FA1



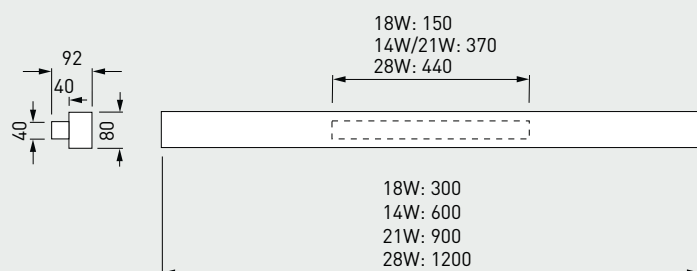
2220. FA2



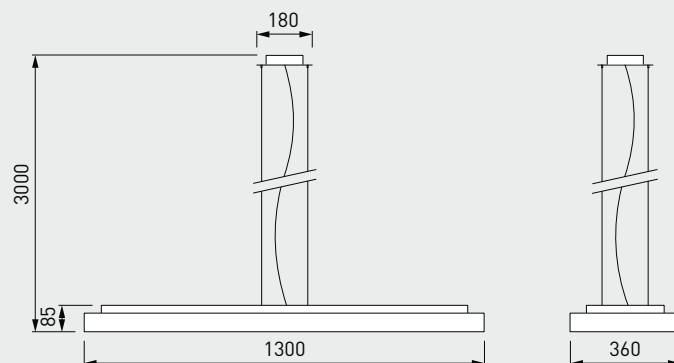
DIMENSIONAL SKETCHES

wall luminaires

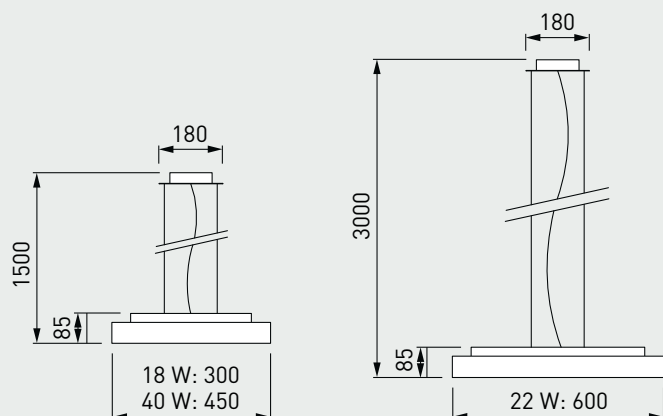
2230. FA4



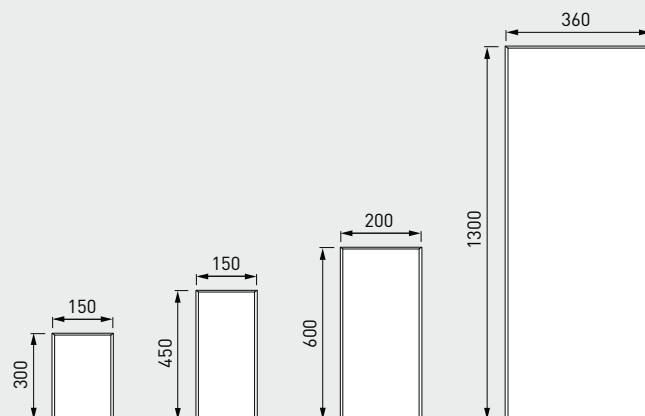
2250. FA6 - suspension



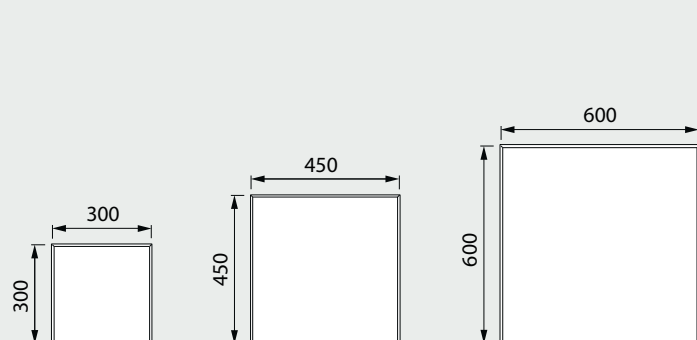
2240. FA5 - suspension



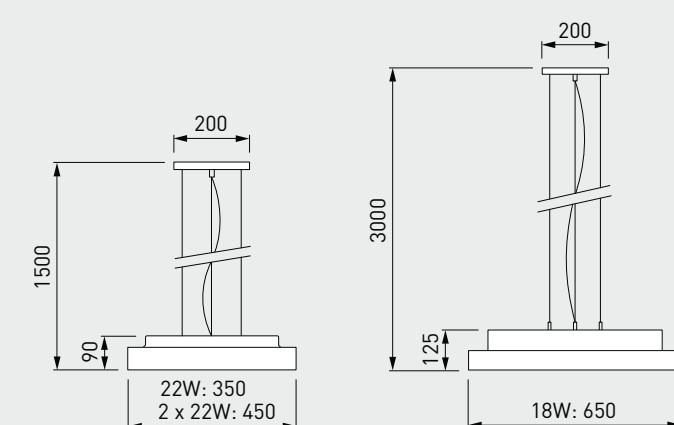
2251. FA6 - surface



2241. FA5 - surface



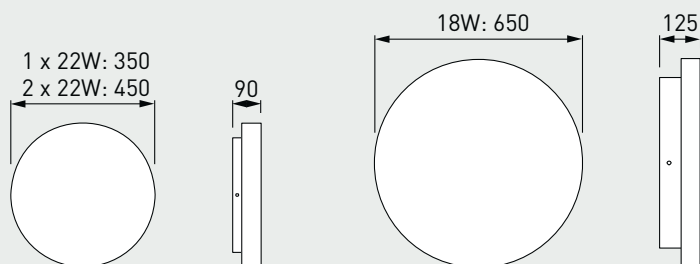
2260. FA7 - suspension



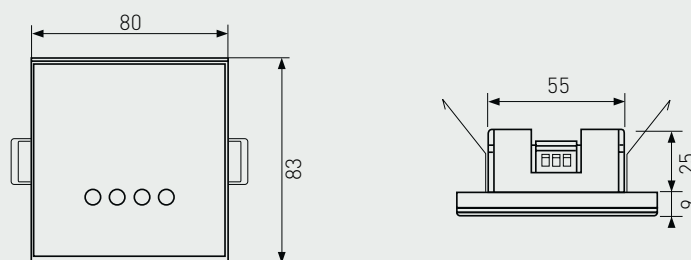
DIMENSIONAL SKETCHES

wall luminaires

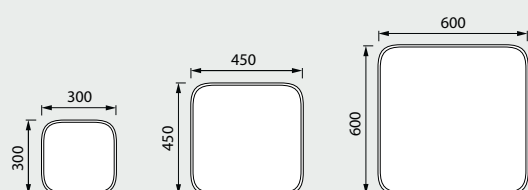
2261. FA7 - surface



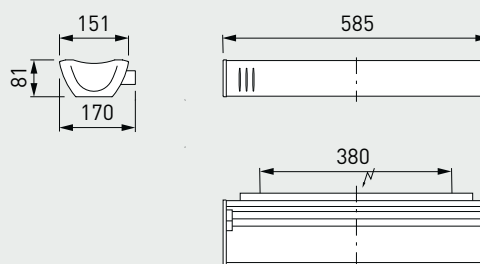
2281. GUIDE



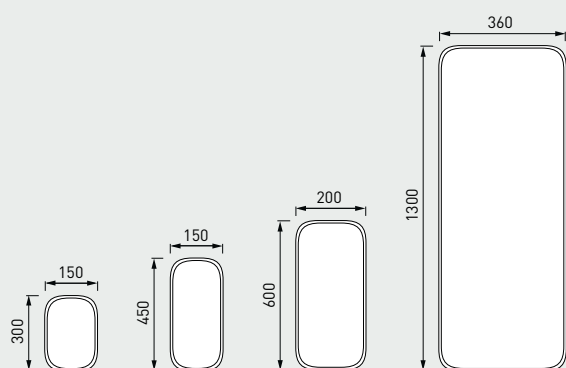
2270. FA9



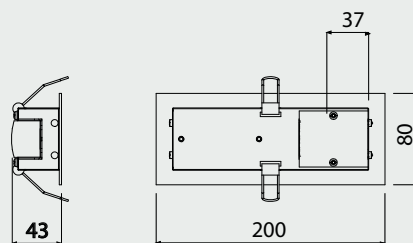
2300. RT4



2280. FA10



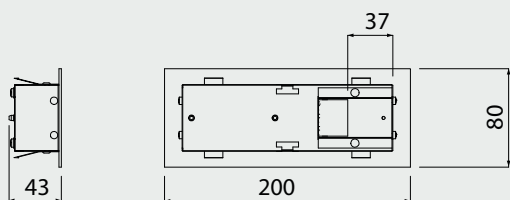
2301. UW - hollow wall



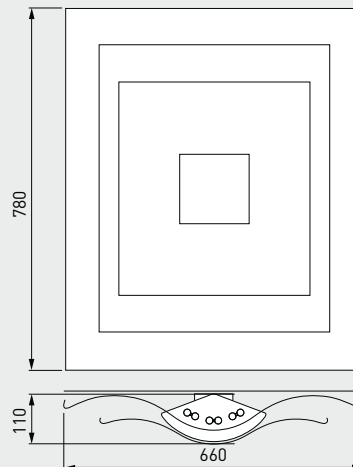
DIMENSIONAL SKETCHES

wall luminaires

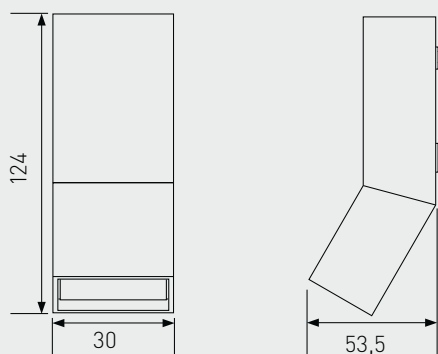
2302. UW - solid wall



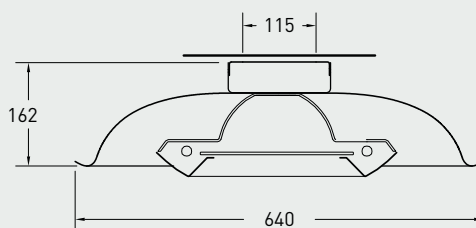
2340. AMANTA



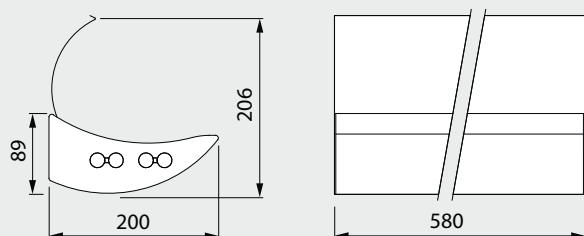
2304. WA?



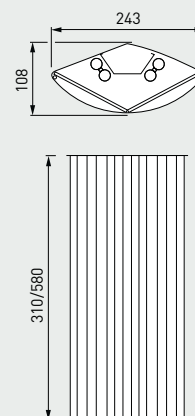
2345. ASKY



2305. ALADIN



2350. ATITA

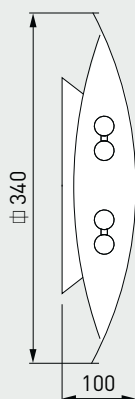


DIMENSIONAL SKETCHES

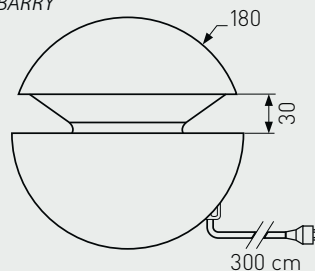
wall luminaires

decorative and accent

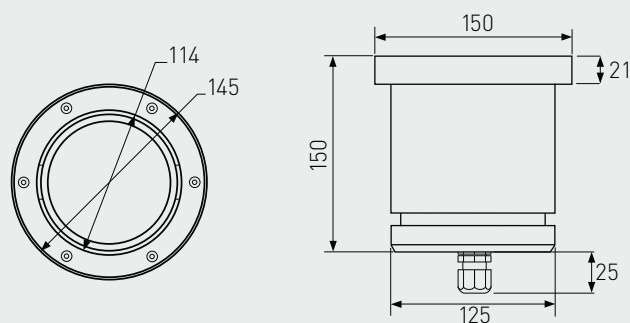
2360. AVELA



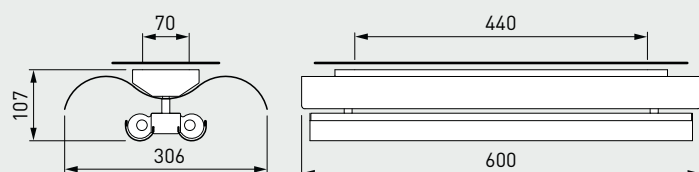
2391. BARRY



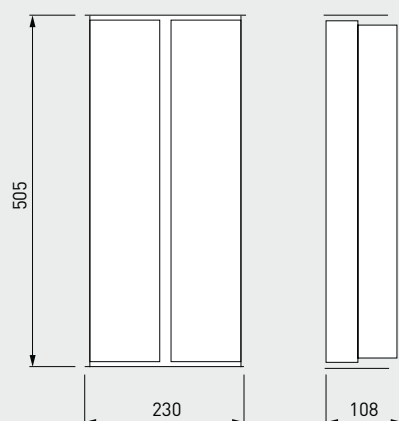
2392. GROUND MOVE



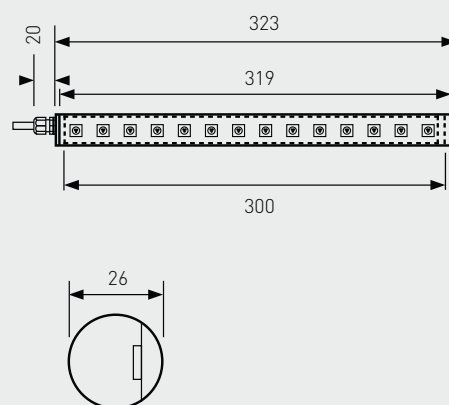
2370. AXTRA



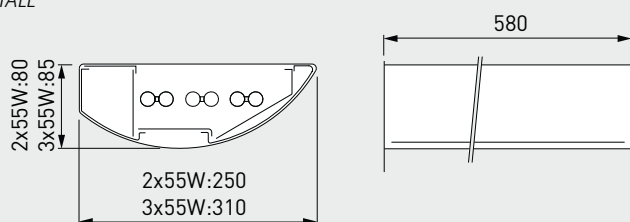
2380. ELLO



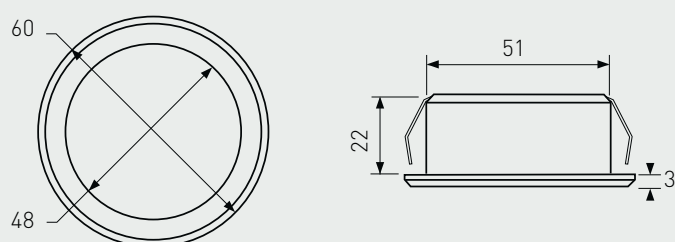
2393. LEDSTRIP20 / LEDSTRIP30 / LEDSTRIP SMD



2390. ETALE



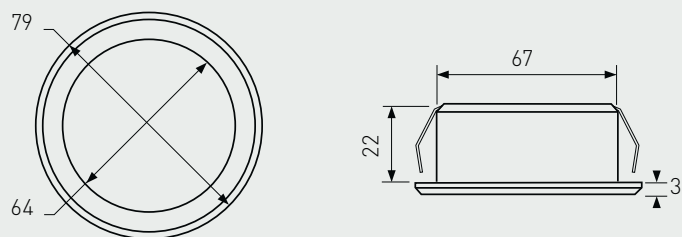
2396. MINI 4W



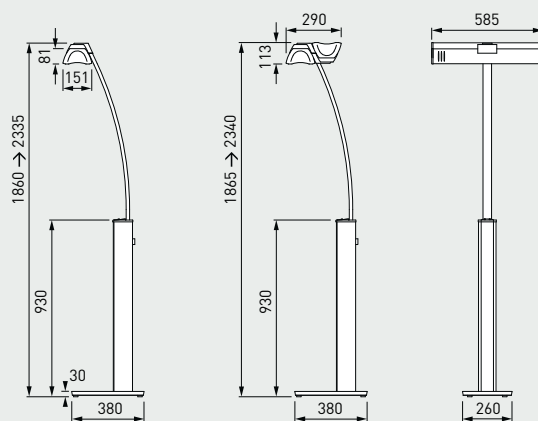
DIMENSIONAL SKETCHES

floor standing luminaires

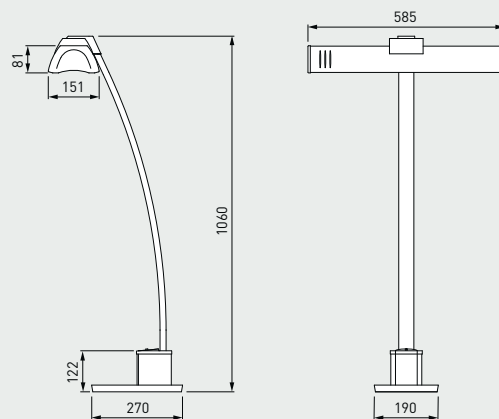
2397. MINI 8W



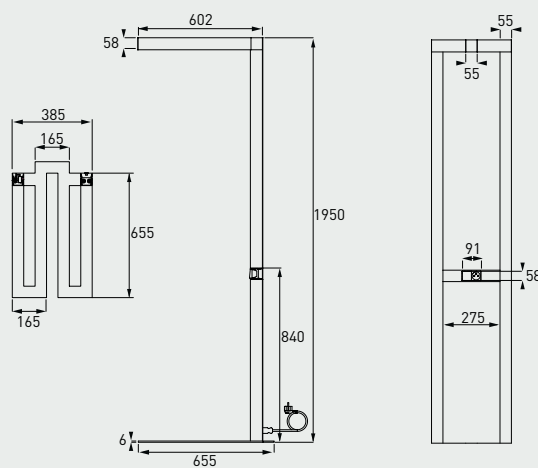
2500. RT5 - 14W



2501. RT5 - 14W



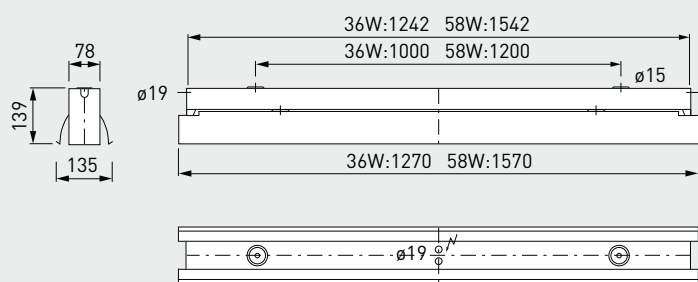
2502. PADEO



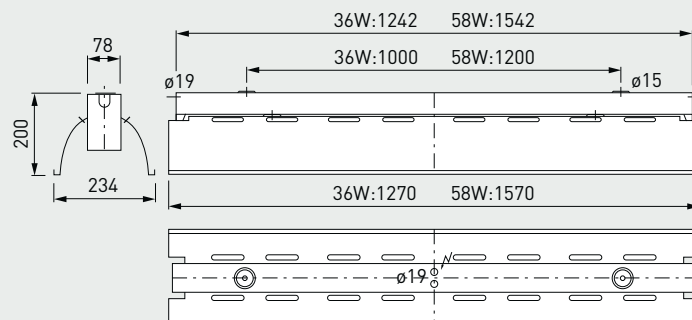
DIMENSIONAL SKETCHES

light line systems

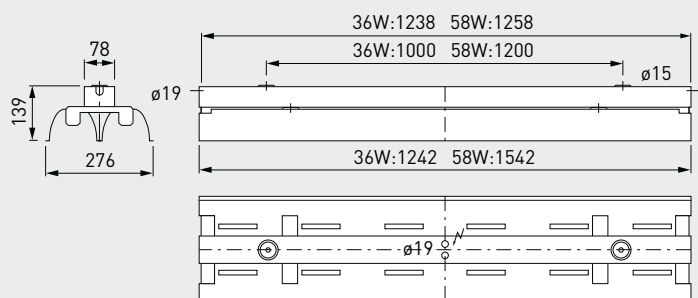
3000. E31 - individual - 1 lamp



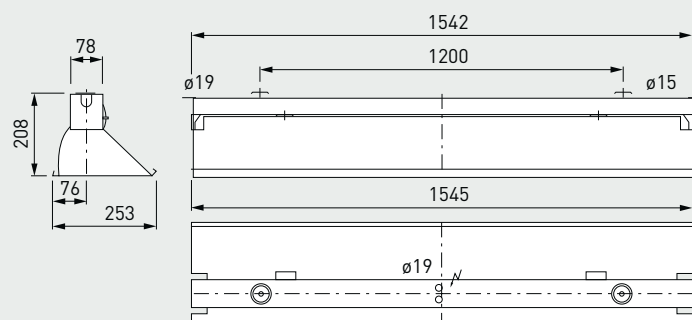
3400. E32/E35 - individual



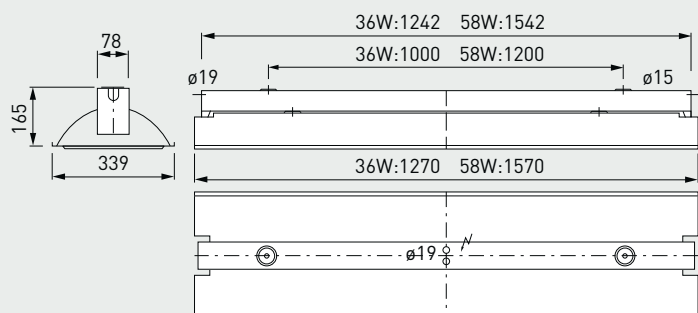
3001. E31 - individual - 2 lamp



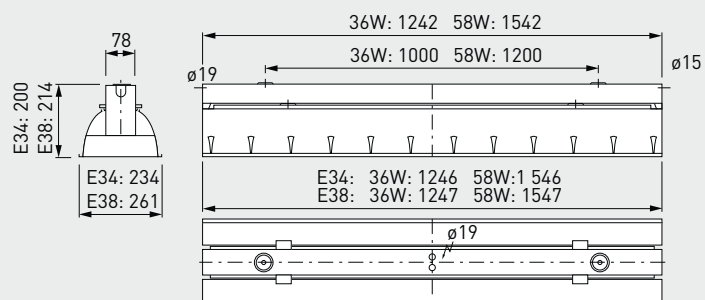
3600. E36/E37 - individual



3200. E33 - individual

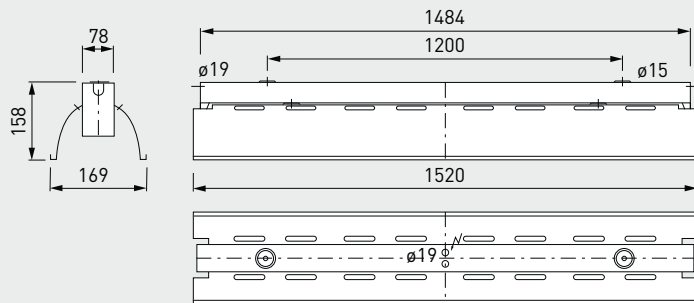


3800. E34/E38 - individual

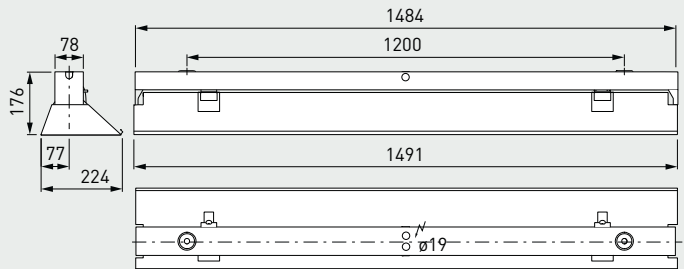


light line systems

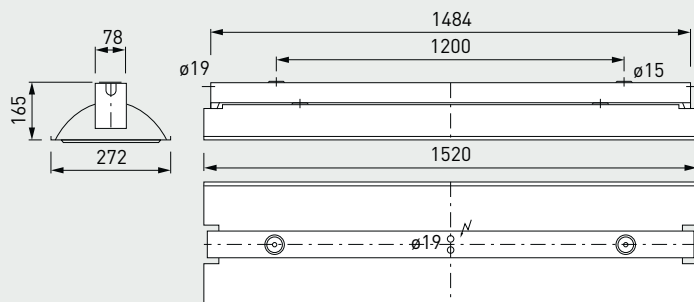
4001. E52 - individual



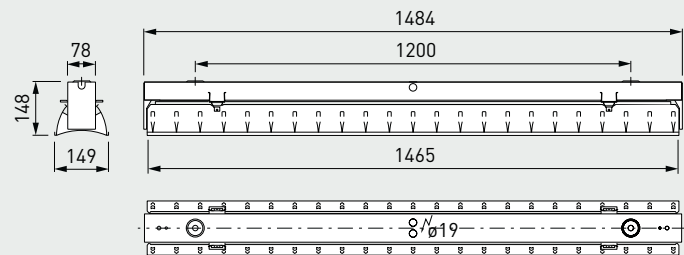
4201. E56 - individual



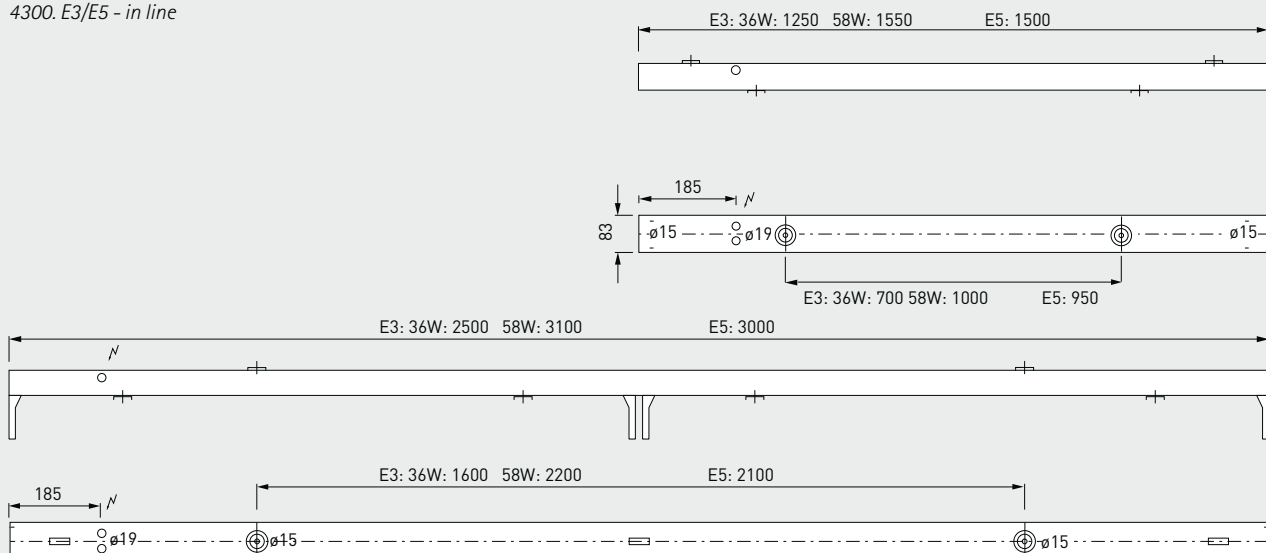
4101. E53 - individual



4250. E58 - individual



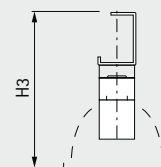
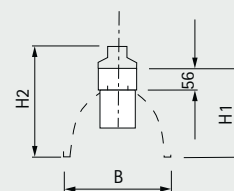
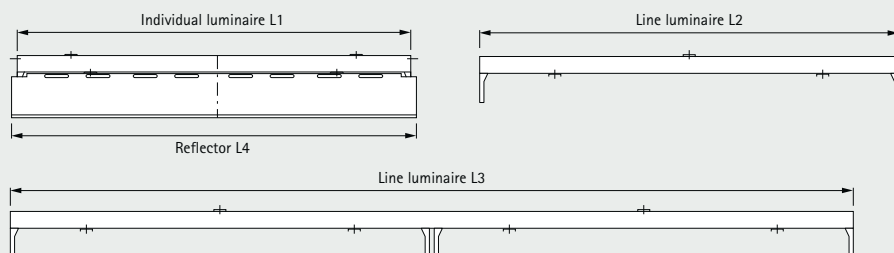
4300. E3/E5 - in line

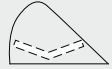


DIMENSIONAL SKETCHES

light line systems

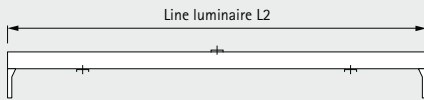
4300, E3/E5 - in line



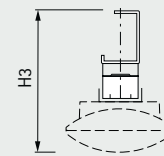
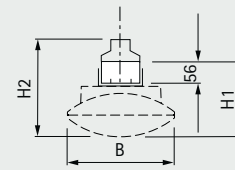
Type	Execution	L1	L2	L3	L4	B	H1	H2	H3
E31 	1 x 36 W	1242	1250	2500	1270	135	139	191	276
	1 x 58 W	1542	1550	3100	1570	135	139	191	276
	2 x 36 W	1238	1250	2500	1242	276	139	191	276
	2 x 58 W	1538	1550	3100	1542	276	139	191	276
E32/E35 	1 x 36 W	1242	1250	2500	1270	234	200	252	337
	1 x 58 W	1542	1550	3100	1570	234	200	252	337
	2 x 36 W	1242	1250	2500	1270	234	200	252	337
	2 x 58 W	1542	1550	3100	1570	234	200	252	337
E33 	1 x 36 W	1242	1250	2500	1270	339	165	217	302
	1 x 58 W	1542	1550	3100	1570	339	165	217	302
	2 x 36 W	1242	1250	2500	1270	339	165	217	302
	2 x 58 W	1542	1550	3100	1570	339	165	217	302
E34 	1 x 36 W	1242	1250	2500	1246	234	200	252	337
	1 x 58 W	1542	1550	3100	1546	234	200	252	337
	2 x 36 W	1242	1250	2500	1246	234	200	252	337
	2 x 58 W	1542	1550	3100	1546	234	200	252	337
E36/E37 	1 x 58 W	1542	1550	3100	1545	253	208	260	345
	2 x 58 W	1542	1550	3100	1545	253	208	260	345
E38 	1 x 36 W	1242	1250	2500	1247	261	214	266	351
	1 x 58 W	1542	1550	3100	1547	261	214	266	351
	2 x 36 W	1242	1250	2500	1247	261	214	266	351
	2 x 58 W	1542	1550	3100	1547	261	214	266	351
E39 	1 x 58 W	1542	1550	3100	1547	165	156	208	293
E52 	1 x 35 W	1484	1500	3000	1520	169	158	210	295
	2 x 35 W	1484	1500	3000	1520	169	158	210	295
E53 	1 x 35 W	1484	1500	3000	1520	272	165	217	302
	2 x 35 W	1484	1500	3000	1520	272	165	217	302
E56 	1 x 35 W	1484	1500	3000	1500	224	176	228	313
	2 x 35 W	1484	1500	3000	1500	224	176	228	313
E58 	1 x 35 W	1484	1500	3000	1500	149	148	200	285
	2 x 35 W	1484	1500	3000	1500	149	148	200	285

light line systems

4300. E3/E5 - in line



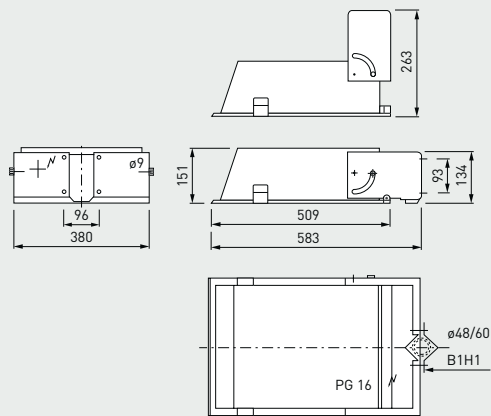
Type	Code	Lamp	L2	B	H1	H2	H3
K1 	E309/058S.	longitudinal	1550	155	144	196	281
		transversal	1550	304	144	196	281
	E5009/035S.	longitudinal	1500	155	144	196	281
		transversal	1500	304	144	196	281
K2 	E309/058S.	longitudinal	1550	155	314	366	451
		transversal	1550	304	314	366	451
	E5009/035S.	longitudinal	1500	155	314	366	451
		transversal	1500	304	314	366	451
K3 	E309/058S.	longitudinal	1550	180	171	223	308
		transversal	1550	359	171	223	308
	E5009/035S.	longitudinal	1500	180	171	223	308
		transversal	1500	359	171	223	308
K4 	E309/058S.	longitudinal	1550	152	177	229	314
		transversal	1550	400	177	229	314
	E5009/035S.	longitudinal	1500	152	177	229	314
		transversal	1500	400	177	229	314
K8 	E309/058S.	longitudinal	1550	155	158	210	295
		transversal	1550	360	158	210	295
	E5009/035S.	longitudinal	1500	155	158	210	295
		transversal	1500	360	158	210	295



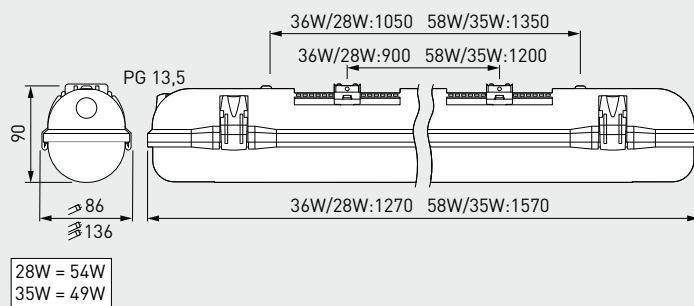
DIMENSIONAL SKETCHES

high protection factor luminaires

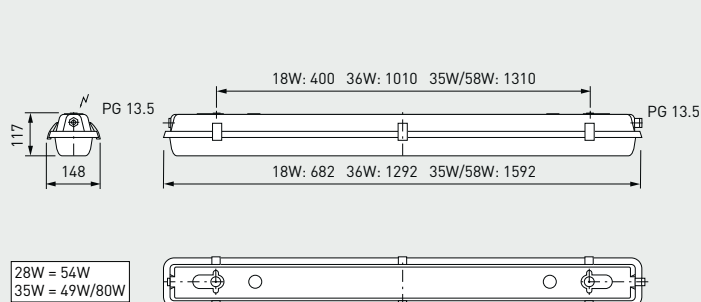
5000. B1



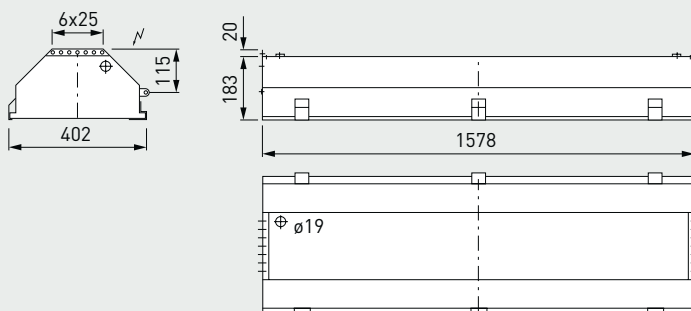
5400. E6



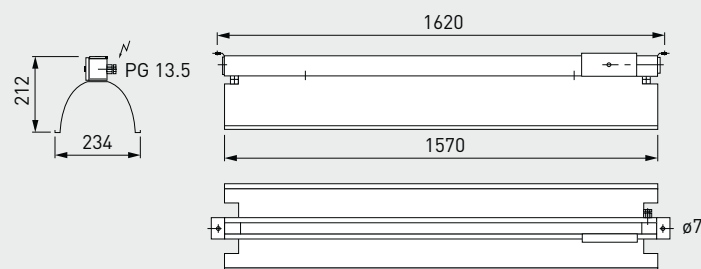
5100-5101-5102. E1 - inox brackets are standard: variable mounting distance



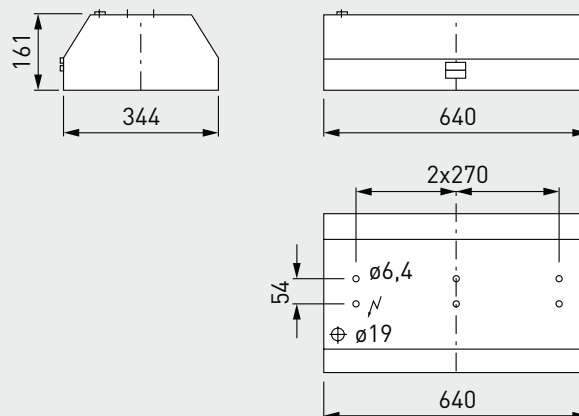
5500. E95



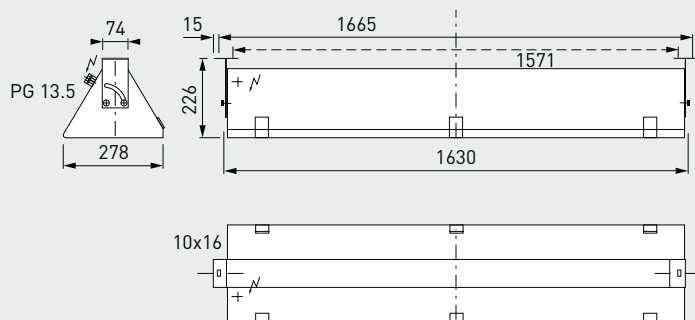
5200. E2



5501. E90

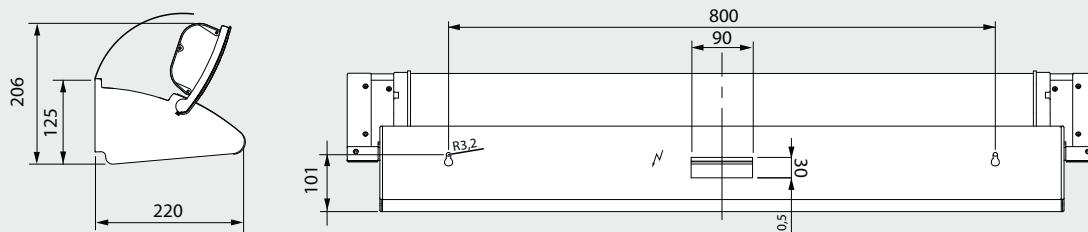


5300. E4

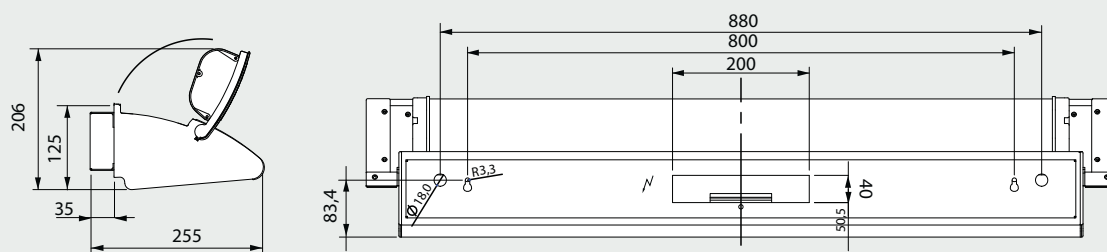


medical systems

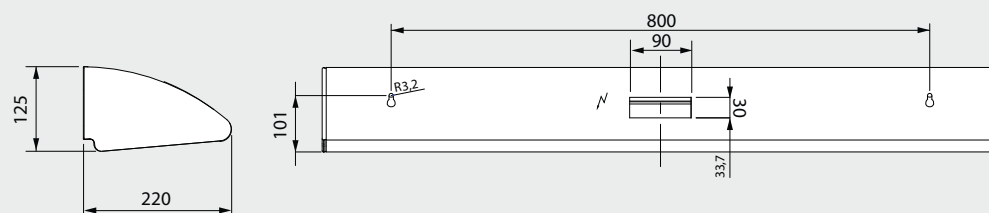
6000. R9 - surface - fixed



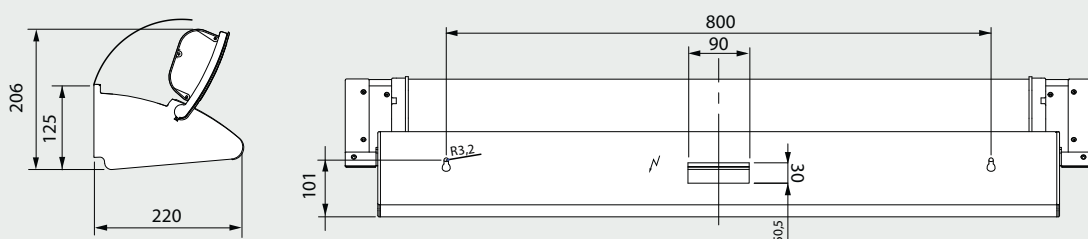
6001. R9 - surface - directional



6002. R9 - surface on channel - fixed



6003. R9 - surface, on channel - directional



GUARANTEE LIGHTING

DELIVERIES

Our general terms and conditions of sale and delivery shall apply to all deliveries.

FIVE YEAR WARRANTY ON PHILIPS AND OSRAM ELECTRONIC BALLASTS

This warranty relates to:

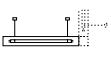
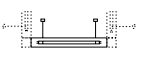
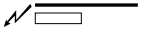
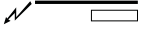
- Electronische ballasts and dimmable electronic ballasts for T5 ø16mm, T8 ø26mm and compact fluorescent lamps.
Both the luminaires and the lamps must have been purchased from ETAP (first purchase lamps).
Broken lamps must be replaced with lamps that conform to IEC.
The warranty period commences on the date of delivery of the luminaires.
- In case of defect ETAP will deliver a new electronic ballast at no additional cost, if the defect within the warranty period is demonstrably due to material or production faults.
- Luminaires must be used within the specification (voltage, IP rating, ambient temperature, etc.).
- Our warranty does not extend beyond the delivery of new electronic ballasts in replacement of defective products. Replacement will be at the expense of the purchaser.
- ETAP reserves the right to decide itself on the handling of the claim. To allow a fault analysis to be carried out, the defective electronic ballasts must be sent to ETAP, together with a copy of the original invoice.
- Statutory warranty claims shall not be affected and shall continue to apply independently and in connection with these terms.
- Warranty claims will be handled by ETAP.
- ETAP's general terms and conditions of sale shall remain applicable. In case of conflict between the general terms and conditions of sale and this document, the latter shall take precedence.

TABLE EXPLANATION LIGHTING

HEADING

module	luminaire suitable for the indicated ceiling module
lamp type	number of lamps and lamp power (see also p. 368)
$L_{av-limit}$	limit value of the average luminance expressed in cd/m^2 for the indicated cut-off angle. This value all round the luminaire for the standard lamp position (see also p. 364)
UGR	glare limit for standard lamp position (see also p. 364)
η	total efficiency expressed as a %
L x W x H	dimensions of the luminaire expressed in mm (length x width x height)
plan N.	number of the detailed dimension sketch as can be found as of p. 384
air	surface of air extraction openings expressed in cm^2
	• integration of an emergency unit is a standard option - no standard option; contact ETAP if necessary - mentioned F symbol is not valid for versions with emergency unit.

ORDER CODE SYMBOLS

Ceiling mounted	Suspended	
		Individual luminaire, single lamp length
		Individual luminaire, double lamp length
		End luminaire
		End luminaire with power cable
		End luminaire with angular coupling piece 90° on 1 side
		End luminaire for external dimming with one cable allowing the power or control cable to be routed to a separate end luminaire
		Intermediate luminaire
		Intermediate luminaire with power cable
		Intermediate luminaire with angular coupling piece 90° on one side
		Intermediate luminaire with angular coupling piece 90° on both sides
		Line section with double lamp length and lamp left
		Line section with double lamp length and lamp right
		Line section with double lamp length and lamps left and right
		Line section with single lamp length and ballast

BASIC CONCEPTS EMERGENCY LIGHTING

Emergency lighting luminaires break down into two large categories. First, there are signage luminaires, which are luminaires with pictograms. Second, there are luminaires for lighting in emergency situations, where a distinction is made between escape route lighting (e.g. in corridors) and anti-panic lighting (e.g. in offices). For more information, refer to the chapter "Emergency lighting standards" on page 430.

TYPES OF EMERGENCY LIGHTING

Signage applications always require specific luminaires.

For escape route and anti-panic lighting a number of different solutions are possible:

EMERGENCY LIGHTING	
Lighting	Signage
specific luminaires	specific luminaires
interior lighting with LED module	-
interior lighting - self-contained with emergency unit - connected to centralised emergency unit	-

SPECIFIC LUMINAIRES FOR EMERGENCY LIGHTING

These luminaires are specially designed for escape route and/or anti-panic lighting, and are planned accordingly.

Photometric optimisation allows the luminaires to be installed at large spacings, so that only a limited number are needed to ensure compliance with the standard. The luminaires are fitted with specific electronics for optimal starting (and therefore long life) of the lamp and low energy consumption.

LED MODULES INTEGRATED INTO INTERIOR LIGHTING LUMINAIRES

A LED module consists of a light source with a LED indicator, an electronic control and a battery set (in self-contained systems). It is unobtrusively integrated into a luminaire. In emergency mode, the LED provides the necessary light. If the light of the LED is distributed with a special optical system, only a limited number of LED modules are needed to ensure compliance with the safety standards. The LED in the module is insensitive to switching; in addition, it has a very long life, so that, in principle, it never needs replacing.

EMERGENCY UNTIGS INTEGRATED INTO INTERIOR LIGHTING LUMINAIRES

In this case the lamps of the interior lighting are also used to provide light in emergency situations. This is possible by connecting them to an external emergency power unit or by integrating an emergency unit. Such an emergency unit consists of electronics and a battery set.

With this solution no separate emergency lighting is visible, as the same light source is used for both regular lighting and emergency lighting.

The light distribution is that of the interior lighting luminaire and is therefore not ideal for emergency lighting. To comply with the standard, you will probably have to install a comparatively large number of emergency units, in part because of the light distribution.

MAINTAINED OR NON-MAINTAINED

The lamp of a maintained luminaire is on continuously, also when there is no power failure. Maintained luminaires are ideal for illuminated safety signs to indicate escape routes, emergency exits and rescue stations.

The lamp of a non-maintained emergency lighting luminaire is only switched on in case of a power failure. When the power comes back, the lamp switches off again.

DURATION

When the power fails, an emergency lighting luminaire will switch on for a certain period of time. The duration of a luminaire is determined by the power of the built-in battery. ETAP luminaires are available with the options of both 3 hour and 1 hour duration. The 3 hour version can be very useful in circumstances where the evacuation takes more time.

webref. SK8015C1 - vigilance

webref. SK8015C2 - emergency

webref. SKC003B1

CENTRALISED OR SELF-CONTAINED SYSTEM

Emergency lighting takes over from normal lighting in case of a power failure. Emergency lighting can be powered in two ways. Depending on where the energy source is located, we speak of a centralised or self-contained system.

CENTRALISED SYSTEM – CENTRALISED POWER

In a centralised system, the power comes from a centralised unit.

Luminaires for a centralised system are available in different voltages depending on the area of application: 230V alternate current and direct current.

SELF-CONTAINED SYSTEM

In a self-contained system, each luminaire has its own rechargeable battery. Each luminaire operates autonomously, i.e. independently of all others. Self-contained luminaires react independently to voltage drops. Expansion of the system is limitless and the chances of failure of the whole installation are nil. All ETAP self-contained luminaires have an automatic self-test system. Self-contained emergency lighting has been designed for a nominal alternate mains voltage of 230V. Luminaires can handle fluctuations between 207 and 245V in the mains voltage.

BATTERIES

Batteries are an essential part in any self-contained emergency lighting luminaire. ETAP uses two types of batteries: Nickel-Cadmium (NiCd) batteries and Nickel Metal Hydride (NiMH) batteries. Both battery types are subject to reversal of polarity which has a negative effect on the life cycle of the battery. Polarity reversal protection, provided in all self-contained ETAP luminaires, avoids the polarity of a battery from being reversed by a chemical reaction following strong depletion. All used batteries are recovered and recycled.

INHIBITING MODE

A switch sequence for special areas such as high-voltage switch rooms. The luminaires are connected in such a way that they only begin to function after a technician activates them on the spot (using a switch fitted specially for that purpose).



AUTOMATIC SELF-TEST

Well functioning emergency lighting requires regular monitoring. All ETAP self contained luminaires have an European Safety Test (EST) that carries out extensive and frequent tests. For more detailed information, see page 339.

Luminaires with an automatic self-test guarantee increased safety and offer significant time and money savings during functional testing. Without a self-test you are required under the standard to regularly switch off the voltage and to check whether the luminaires still lit after the specified battery duration has elapsed.

TEST BUTTON

All self-contained luminaires have a test button. The button allows you to simulate a voltage cut-off to test the luminaire's reaction.

RESPONSE TIME

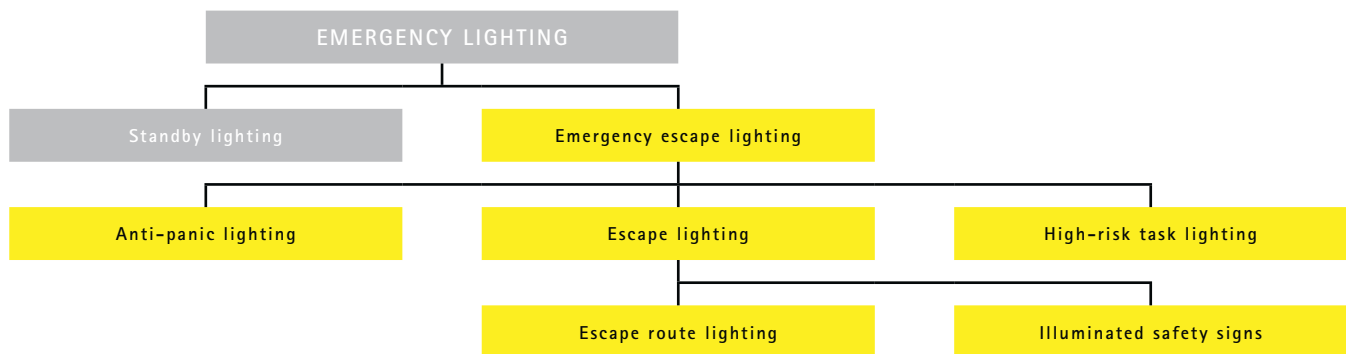
The response time is the time that the emergency lighting needs to switch on after a power failure. In case of self-contained systems, the response time is less than 2 seconds. The response time needs to be as short as possible to prevent people panicking in the dark.

STANDARDS EMERGENCY LIGHTING

When and how emergency lighting needs to be applied has been laid down by law. The technical aspects of emergency lighting are governed by numerous rules and regulations.

EUROPEAN STANDARD EN 1838 (BS5266 part 7)

European standard EN 1838 (Lighting applications – Emergency lighting) specifies the minimum requirements that emergency installations should meet. Below is a summary of these properties.



EMERGENCY LIGHTING

This is the lighting that comes on when the supply to the normal lighting fails. It allows people to safely evacuate the building without panic.

ANTI-PANIC LIGHTING

Sometimes known as open area lighting provides illumination for people to safely reach a place where an escape route can be identified.

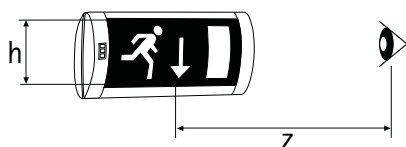
ESCAPE LIGHTING

- *Escape route lighting*

Is a defined route which allows people to safely make their way out of a building.

- *Illuminated safety signs*

Illuminated safety signs indicate the closest escape route. Good visibility and rapid recognition of the safety signs can be a matter of life-and-death in emergency situations. EN 1838:1999 sets out the requirements in terms of size and viewing distance, whilst the colour must be in accordance with ISO 3864.



Internally lit safety signs are easier to recognise from a distance than externally lit safety signs. EN1838 contains a formula that determines the viewing distance (d) depending on the height of the sign (h) and a constant value (z), whereby:

$z = 100$ for an externally lit safety sign

$z = 200$ for an internally lit safety sign

$d = z \times h$

All ETAP emergency signage comply with European directives. We also have a wide range of uniform images for customised signs to indicate where telephones, lifts, etc. can be found. In addition personalised signs can be produced in your house style to indicate areas or specific items.

HIGH-RISK TASK LIGHTING

The aim of the emergency lighting here is to provide illumination for the safety of people involved in a potentially dangerous process or situation such as moving machinery or where noxious vapours are released. To enable proper shut down procedures for the safety of the operator and other occupants of the premises.

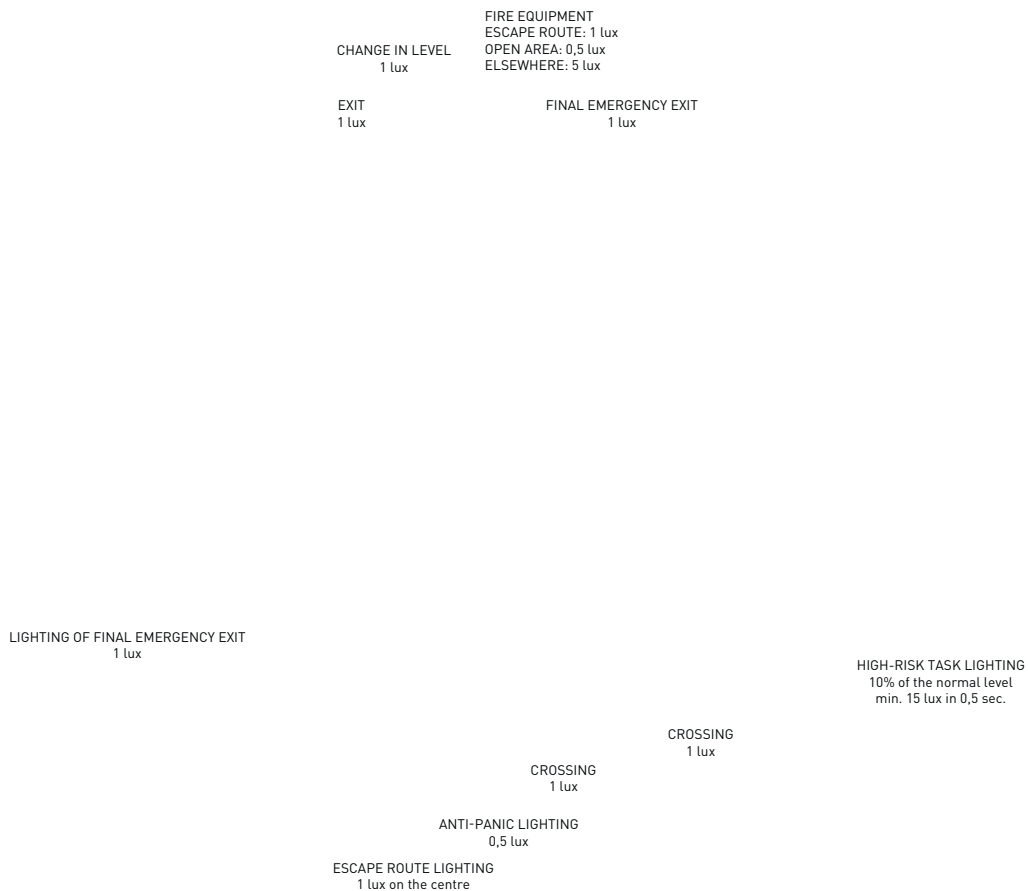
EN 1838 also specifies the minimum uniformity of emergency lighting: anti-panic lighting (1/40), escape route lighting (1/40), high-risk task lighting (1/10) and illuminated safety signs (1/10). (see p. 364 for photometry concepts)

EUROPEAN STANDARD EN 1838

This drawing shows the required EN1838 minimum horizontal illuminance on the floor according to location and function in a building. In addition to escape routes and (emergency) exits, NBN-EN1838 highlights the following places:

- every exit to be used in case of an emergency
- stairs in order to make sure that every step is directly lit
- other differences in level
- prescribed emergency exits and signs
- any change of direction
- any crossroads of corridors
- on the outside and in the proximity of the final exits
- every first aid station
- fire fighting equipment and fire alarms

An emergency lighting luminaire is required in these locations.



EUROPEAN STANDARD: EN50172

European standard EN 50172 calls for a monthly function test and an annual duration test of the emergency lighting as well as registration of the monitoring and maintenance in a logbook. ETAP Safety Manager (ESM), our self-testing luminaires and intelligent monitoring and management system for self-contained emergency lighting, meets this European standard.

RELATED EUROPEAN AND NATIONAL STANDARDS AND REGULATIONS

ETAP luminaires meet all relevant European and national safety standards and regulations. More so: ETAP is an emergency lighting specialist and contributes actively to the study groups that discuss these standards and regulations. Below is a summary of these properties.

LEGAL FRAMEWORK IN EUROPE

Product Standards

EN60598-2.22 Luminaires – Particular requirements:
Luminaires for emergency lighting

Safety colours

ISO 3864 Signage
IEC 60073 Indicating devices
EN 61000-6-3 Electromagnetic compatibility
Generic emission standard: Part 1: Residential commercial and industrial environments
EN 61000-6-1 Electromagnetic compatibility
Generic immunity standard. Part 1: Residential, commercial and light industry
EN 62034 Automatic test systems for battery powered
Emergency lighting
EN 50171 Central power supply systems
EN 50272-2 Safety requirements for batteries

Legal Requirements

73/23/EEC Low voltage directive
89/336/EEC Electromagnetic compatibility

EU directives

89/654/EEC Minimum requirements regarding safety and health at work
92/58/EEC Minimum requirements for safety and/or health signs at work

Application Standards

EN1838 Lighting applications: emergency lighting
EN 50172 Emergency escape lighting systems

ADDITIONAL UK REQUIREMENTS

BS EN 60598-2.22

EN 61000-6-3 Electromagnetic compatibility
Generic emission standard: Part 1: Residential, commercial and industrial environments
EN 61000-6-1 Electromagnetic compatibility
Generic immunity standard. Part 1: Residential, commercial and light industry
BS EN 50171 Central power supply systems: 2001
BS EN 50272-2 Safety requirements for secondary batteries and battery installations

Electrical Equipment (Safety) Regulations 1994
The Electromagnetic Compatibility Regulations 1992
Health & Safety at Work Act 1992
Workplace (Health Safety and Welfare) Regulations 1992
Fire Protection (Workplace) regulations 1997: Building Regulation
Health and Safety (Safety Signs and Signals) Regulations 1996
Building Act 1984
Building Regulations 2000
Building (Scotland) Act 2003

Application Standards

BS5266 Pt. 7 1999/ EN1838 Emergency Lighting Applications
BS5266 Pt. 1 1999 Code of practice for Emergency Lighting
BS7671 IEE wiring Regulations
CP1007:1955 Code of practice for Emergency Lighting of cinemas, theatres and other specified places of entertainment. 1955
Hospital Technical Memorandum 65 Signs Guide 2

Local Authority regulations may vary and be more stringent than those laid down in national or international standards



OPTIONS EMERGENCY LIGHTING

	K1	K2	K3	K5	K6	K7	K9 Modules	K9	KB	KL
MECHANICAL OPTIONS										
M1 - Tamper-proof device	●				●					
M4 - Atex II 2 D (t = 80°C), zones 21 and 22			●							
ELECTRONIC OPTIONS FOR SELF CONTAINED LUMINAIRES										
code + S1 - Through wiring		●				X				
code + S2 - 3h duration (not for exterior application with fluo or high lumen output)	●	●	●	●	●	●	●	●	●	●
code + S5 - NiMH batteries for non-maintained luminaires	●	●	●	●	●				●	
code + S8 - Volt-free contact (not for ESM, LON® and inhibiting mode luminaires) ¹	●	●	●	●	●				●	
code + S9 - Version for combination with E3/E5-in-line system (only surface mounted) (not for single sided signage)	●	●	●			●				●
code + S11 - Conform to DALI IEC62386-202 Ed. 2009 (only for ESM luminaires)	●	●	●	●	●	●	●	●	●	●
LON® version	○	○	○	○	○	○	○	○	○	○
ELECTRONIC OPTIONS FOR CENTRALISED LUMINAIRES										
KCADB01, EBS module - code + C1 (p. 356 - 357)	●	●	●	●	●		●	●	●	
KCFLEX1, EBS module - code + C2 (p. 356 - 357)	●	●	●	●	●		●	●	●	
KCFLEX2, EBS module (p. 356 - 357)	○	○	○	○	○		○	○	○	
KCFLEX3, EBS module (p. 356 - 357)	○	○	○	○	○		○	○	○	
PHOTOMETRIC OPTIONS										
code + L1 - Escape route module (for signage only)						●				
code + L2 - Spotlight module (for signage only)						●				

KEY:

● option available

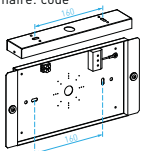
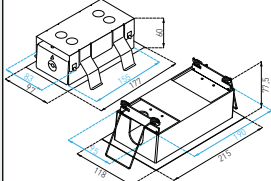
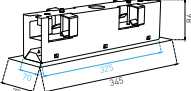
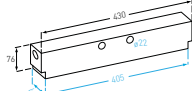
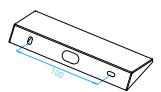
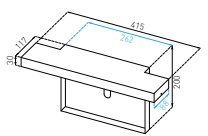
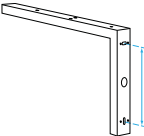
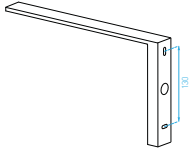
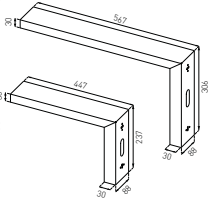
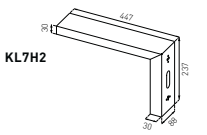
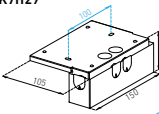
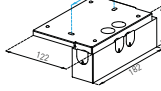
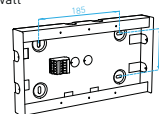
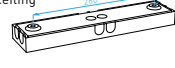
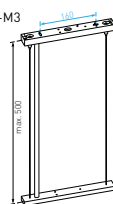
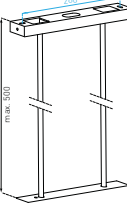
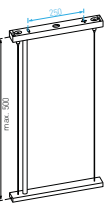
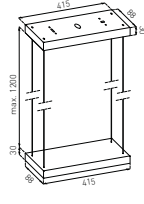
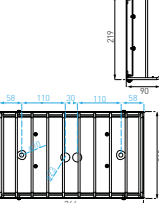
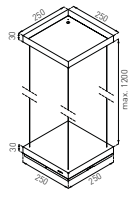
○ on request (consult ETAP)

X throughwiring possible with accessory (no option code)

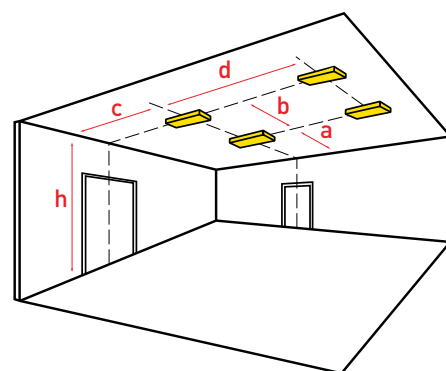
¹ option S8 possible with inhibiting mode for K3 and K6

ACCESSORIES EMERGENCY LIGHTING

	K1	K2	K3	K5
CEILING MOUNTING	K1H3 	K2H23 		
RECESSED	mounting frame: K1H1 mounting reach: 1-20 mm mounting template: K1H8	mounting frame: K2H21 mounting reach: 1-20 mm 		wall recessed mounting template: K5RH8
LONGITUDINAL WALL MOUNTING	K1H3 	K2H23 		
RIGHT ANGLED WALL MOUNTING	K1H2 	K2H22 		
THROUGHWIRING				
PENDANT	K1H5-50 vertical luminaire mounting K1H4-50 horizontal luminaire mounting 	K2H24 horizontal luminaire mounting K2H25 vertical luminaire mounting the code does not include threaded rods (max. M8)		
PROTECTIVE GRILLE	K1H7 	K2H27 protective grille 	K2H2 	

K6	K7 lighting	K7 signage	K9	KL
individual ceiling: K6H8 with luminaire: code  individual wall/ceiling: K6H7 with luminaire: code	mounting frame (44x150x70mm) K7H21  mounting frame (52x182x85mm): K7H31	mounting frame: K7H11 	mounting template: K9H3 	
	K7H23-1 			KLH3 
individual: K6H3 with luminaire: code+M2 		K7H12 		KL8H2  KL7H2 
	K7H29  K7H39 	K7H19-1 wall  K7H19-2 ceiling 		
individual: K6H4-50 with luminaire: code+M3 		K7H14-50 	K9H2-50 	KLH4-125 
		K7H17 		KL9H4-125 

DISTANCE TABLES: CEILING MOUNTED



K1 Fresnel lens



h	a	b	c	d
1 lux	K11 – 200 lm			
2,8 m	5,6	13,6	2,8	7,4
3,0 m	5,8	14,0	2,8	7,5
3,5 m	5,5	15,0	2,8	7,8
4,0 m	5,2	15,8	2,6	7,9
5,0 m	3,7	15,4	2,1	7,8

h	a	b	c	d
0,5 lux	K11 – 200 lm			
2,8 m	6,8	15,5	3,7	9,3
3,0 m	7,0	16,2	3,8	9,6
3,5 m	7,5	17,9	3,9	10,1
4,0 m	7,9	19,3	4,0	10,5
5,0 m	7,8	21,4	3,9	11,1

h	a	b	c	d
1 lux	K11 – 450 lm			
2,8 m	6,7	15,1	4,0	9,9
3,5 m	7,1	17,5	4,2	10,8
5,0 m	7,4	20,3	4,4	12,0
6,0 m	7,1	21,2	4,2	12,4
7,0 m	6,6	21,1	3,8	12,4

h	a	b	c	d
0,5 lux	K11 – 450 lm			
2,8 m	7,6	17,6	5,0	12,0
3,5 m	8,8	20,1	5,4	13,4
5,0 m	10,2	25,0	6,0	15,4
6,0 m	10,6	27,3	6,2	16,3
7,0 m	10,5	28,6	6,2	17,0

K1 diffuser



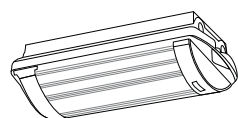
h	a	b	c	d
1 lux	K13 – 200 lm			
2,8 m	4,1	10,9	3,2	8,1
3,0 m	4,1	11,0	3,3	8,3
3,5 m	4,1	11,3	3,3	8,8
4,0 m	4,0	11,5	3,3	9,1
5,0 m	3,7	11,5	3,1	9,4

h	a	b	c	d
0,5 lux	K13 – 200 lm			
2,8 m	5,5	14,3	4,1	9,9
3,0 m	5,5	14,5	4,2	10,2
3,5 m	5,7	15,1	4,4	10,9
4,0 m	5,7	15,5	4,5	11,5
5,0 m	5,8	16,0	4,7	12,4

h	a	b	c	d
1 lux	K13+K1ED0 – 170 lm			
2,8 m	3,8	10,2	3,0	7,7
3,0 m	3,8	10,3	3,1	7,9
3,5 m	3,7	10,5	3,1	8,3
4,0 m	3,6	10,6	3,0	8,5
5,0 m	3,2	10,6	2,7	8,7

h	a	b	c	d
0,5 lux	K13+K1ED0 – 170 lm			
2,8 m	5,1	13,5	3,9	9,5
3,0 m	5,2	13,7	4,0	9,8
3,5 m	5,3	14,1	4,1	10,4
4,0 m	5,3	14,4	4,3	10,9
5,0 m	5,3	14,9	4,4	11,7

K2 Fresnel lens



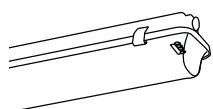
h	a	b	c	d
1 lux	K2 – 200 lm			
2,8 m	5,5	12,5	2,9	7,6
3,0 m	5,7	12,9	2,9	7,7
3,5 m	6,0	14,2	2,8	8,0
4,0 m	6,0	15,5	2,6	8,1
5,0 m	1,7	14,1	1,9	7,9

h	a	b	c	d
0,5 lux	K2 – 200 lm			
2,8 m	6,2	14,4	3,8	9,4
3,0 m	6,5	15,1	3,9	9,7
3,5 m	7,1	16,6	4,0	10,4
4,0 m	7,8	17,8	4,1	10,0
5,0 m	8,5	20,3	3,9	11,3

h	a	b	c	d
1 lux	K2 – 500 lm			
2,8 m	6,2	14,5	4,1	10,1
3,5 m	7,1	16,6	4,4	11,1
5,0 m	8,6	20,0	4,5	12,4
6,0 m	8,9	22,4	4,3	12,8
7,0 m	7,9	24,2	3,8	12,8

h	a	b	c	d
0,5 lux	K2 – 500 lm			
2,8 m	7,3	16,8	5,1	12,3
3,5 m	8,3	18,9	5,6	13,6
5,0 m	10,1	23,7	6,2	15,8
6,0 m	11,2	25,8	6,4	16,8
7,0 m	12,1	28,2	6,4	17,6

K3 reflector



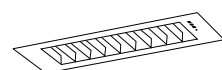
h	a	b	c	d
1 lux	K3 – 470 lm			
2,8 m	6,1	15,3	3,7	9,2
3,5 m	6,4	16,6	3,9	10,1
5,0 m	6,6	18,2	4,0	11,2
6,0 m	6,5	18,5	3,8	11,4
7,0 m	6,1	18,6	3,2	11,4

h	a	b	c	d
0,5 lux	K3 – 470 lm			
2,8 m	7,7	18,9	4,6	11,3
3,5 m	8,3	20,7	5,1	12,5
5,0 m	9,1	23,7	5,6	14,4
6,0 m	9,3	25,1	5,7	15,3
7,0 m	9,3	25,7	5,7	15,8

h	a	b	c	d
1 lux	K3 – 840 lm			
2,8 m	7,4	18,2	4,5	10,9
4,0 m	8,4	21,0	5,1	12,8
6,0 m	8,8	24,0	5,4	14,6
8,0 m	8,6	24,7	5,1	15,3
10,0 m	7,7	24,7	3,8	15,1

h	a	b	c	d
0,5 lux	K3 – 840 lm			
2,8 m	9,1	22,5	5,5	13,1
4,0 m	10,5	26,0	6,4	15,7
6,0 m	12,0	30,5	7,3	18,6
8,0 m	12,4	33,5	7,6	20,4
10,0 m	12,4	34,6	7,6	21,3

K5 reflector



h	a	b	c	d
1 lux	K5 – 260 lm			
2,8 m	5,6	13,5	3,3	8,7
3,0 m	5,8	13,9	3,3	8,9
3,5 m	6,0	14,9	3,5	9,0
4,0 m	5,1	16,0	3,5	9,2
5,0 m	5,6	16,1	2,8	9,9

h	a	b	c	d
0,5 lux	K5 – 260 lm			
2,8 m	6,7	15,2	4,3	10,7
3,0 m	7,0	16,0	4,4	11,0
3,5 m	7,5	17,7	4,5	11,7
4,0 m	8,0	19,1	4,7	12,3
5,0 m	8,5	21,3	5,0	12,8

h	a	b	c	d
1 lux	K5 – 380 lm			
2,8 m	6,2	14,5	3,9	9,8
3,5 m	6,9	16,5	4,0	10,6
5,0 m	6,2	19,6	4,2	11,3
6,0 m	6,8	19,5	3,4	12,0
7,0 m	7,4	17,5	3,0	11,5

h	a	b	c	d
0,5 lux	K5 – 380 lm			
2,8 m	7,3	16,1	4,9	11,9
3,5 m	8,3	18,9	5,3	13,1
5,0 m	9,9	23,5	5,7	15,1
6,0 m	10,3	25,6	6,0	15,5
7,0 m	8,7	27,7	6,0	15,9

K5 diffuser



h	a	b	c	d
1 lux	K5 – 200 lm			
2,8 m	4,1	9,9	3,5	8,9
3,0 m	4,2	10,2	3,6	9,1
3,5 m	4,4	10,9	3,7	9,6
4,0 m	4,5	11,5	3,7	10,0
5,0 m	4,7	12,4	3,6	10,5

h	a	b	c	d
0,5 lux	K5 – 200 lm			
2,8 m	5,0	11,9	4,5	10,9
3,0 m	5,1	12,3	4,6	11,2
3,5 m	5,5	13,3	4,8	12,0
4,0 m	5,8	14,1	5,0	12,7
5,0 m	6,2	15,5	5,3	13,7

h	a	b	c	d
1 lux	K5 – 290 lm			
2,8 m	4,6	10,9	4,0	9,9
3,5 m	5,0	12,1	4,3	10,9
5,0 m	5,5	14,0	4,5	12,2
6,0 m	5,6	14,9	4,3	12,6
7,0 m	5,5	15,5	3,9	12,7

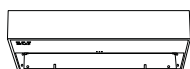
h	a	b	c	d
0,5 lux	K5 – 290 lm			
2,8 m	5,5	13,0	5,0	12,0
3,5 m	6,1	14,6	5,5	13,3
5,0 m	7,0	17,3	6,1	15,5
6,0 m	7,5	18,7	6,3	16,5
7,0 m	7,8	19,8	6,4	17,2

Lumen output and interdistances: data under reservation. The ETAP interdistances are guaranteed until the end of the lifetime of the light source. The reduction in light output of the light source according to standard EN 50698-2.22 is taken into account in the published values.

CEILING MOUNTED

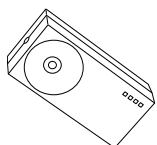
h	a	b	c	d	h	a	b	c	d	h	a	b	c	d	h	a	b	c	d
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K6 clear diffuser



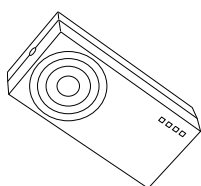
1 lux	K6 – 200 lm					0,5 lux	K6 – 200 lm					1 lux	K6 – 340 lm					0,5 lux	K6 – 340 lm				
2,8 m	4,4	12,9	2,8	7,5		2,8 m	6,4	15,2	3,7	9,5		2,8 m	6,1	14,7	3,5	9,0		2,8 m	7,4	17,0	4,5	11,1	
3,0 m	4,5	13,0	2,8	7,6		3,0 m	6,6	15,8	3,8	9,7		3,0 m	5,7	16,5	3,6	9,6		3,0 m	8,3	19,5	4,8	12,2	
3,5 m	5,0	13,1	2,7	7,8		3,5 m	6,8	17,2	3,9	10,2		5,0 m	6,9	16,1	3,4	10,3		5,0 m	8,1	23,5	5,2	13,7	
4,0	5,4	12,5	2,6	7,9		4,0 m	6,3	18,3	4,0	10,6		6,0 m	7,5	17,6	2,9	10,2		6,0 m	8,8	24,0	5,1	14,3	
5,0	5,7	14,2	1,8	7,7		5,0 m	7,1	18,5	3,8	11,1		7,0 m	5,4	19,3	1,5	9,7		7,0 m	9,7	22,7	4,9	14,6	

K7 non-maintained



1 lux K7 escape route ≤3,5 m – 88 lm					0,5 lux K7 anti-panic – 100 lm				
2,6 m	6,1	14,1	-	-	2,6 m	3,7	10,0	3,7	10,0
2,8 m	6,3	14,8	-	-	2,8 m	3,5	10,5	3,5	10,5
3,0 m	6,7	15,5	-	-	3,0 m	3,4	11,0	3,4	11,0
3,2 m	6,9	16,2	-	-	3,2 m	3,2	11,5	3,2	11,5
3,5 m	7,3	16,5	-	-	3,5 m	2,7	12,3	2,7	12,3
					4,0 m	0,9	12,8	3,5	12,8
1 lux K7 escape route > 3,5 m – 85 lm					4,5 m	0,6	12,6	0,6	12,6
4,0 m	4,6	11,3	-	-	5,0 m	0,6	12,0	0,6	12,0
4,5 m	4,9	12,2	-	-	6,0 m	0,5	12,0	0,5	12,0
5,0 m	5,1	12,9	-	-	7,0 m	0,4	10,4	0,4	10,4
6,0 m	5,4	14,2	-	-					
7,0 m	5,7	15,0	-	-					

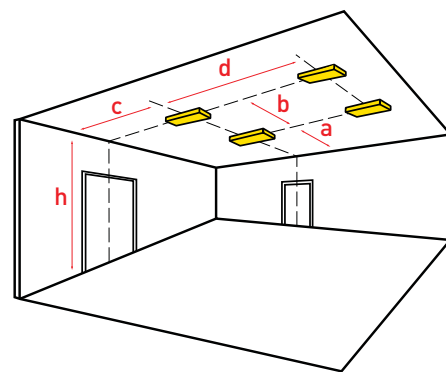
K7 maintained



1 lux K7 escape route ≤ 3,5 m – 88 lm					0,5 luxK7 anti-panic – 93 lm					1 luxK7 comfort – 79 lm					0,5 luxK7 comfort – 79 lm				
2,6 m	6,1	14,1	-	-	2,6 m	3,5	9,0	3,5	9,0	2,6 m	2,5	6,9	-	-	2,6 m	2,0	7,6	2,0	7,6
2,8 m	6,3	14,8	-	-	2,8 m	3,5	9,5	3,5	9,5	2,8 m	2,5	7,1	-	-	2,8 m	2,2	7,9	2,2	7,9
3,0 m	6,7	15,5	-	-	3,0 m	3,1	10,0	3,1	10,0	3,0 m	2,5	7,1	-	-	3,0 m	2,3	8,0	2,3	8,0
3,2 m	6,9	16,2	-	-	3,2 m	2,8	10,5	2,8	10,5	3,2 m	2,4	7,2	-	-	3,2 m	2,3	8,3	2,3	8,3
3,5 m	7,3	16,5	-	-	3,5 m	2,6	11,2	2,6	11,2	3,5 m	2,4	7,3	-	-	3,5 m	2,3	8,6	2,3	8,6
1 lux K7 escape route > 3,5 m – 85 lm					4,0 m1,610,11,610,1														
					4,5 m0,710,60,710,6														
4,0 m	4,6	11,3	-	-	5,0 m0,610,50,610,5														
4,5 m	4,9	12,2	-	-	6,0 m1,210,41,210,4														
5,0 m	5,1	12,9	-	-	7,0 m1,210,01,210,0														
6,0 m	5,4	14,2	-	-															
7,0 m	5,7	15,0	-	-															

Lumen output and interdistances: data under reservation. The ETAP interdistances are guaranteed until the end of the lifetime of the light source. The reduction in light output of the light source according to standard EN 50698-2.22 is taken into account in the published values.

CEILING MOUNTED



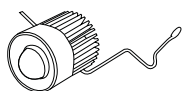
h	a	b	c	d
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h	a	b	c	d
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h	a	b	c	d
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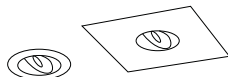
h	a	b	c	d
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K9 module



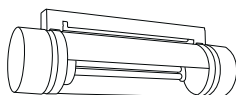
1 lux	K9 – escape route					0,5 lux	K9 – anti-panic				
2,6 m	5,3	12,2	-	-		2,6 m	4,9	13,2	4,9	13,2	
2,8 m	5,5	12,7	-	-		2,8 m	5,0	13,6	5,0	13,6	
3,0 m	5,7	13,2	-	-		3,0 m	5,1	13,8	5,1	13,8	
3,2 m	5,9	13,7	-	-		3,2 m	5,0	13,9	5,0	13,9	
3,5 m	6,1	14,5	-	-		3,5 m	5,0	13,9	5,0	13,9	

K9 luminaire



1 lux	K9 – escape route					0,5 lux	K9 – anti-panic				
2,6 m	6,3	14,2	-	-		2,6 m	5,1	13,7	5,1	13,7	
2,8 m	6,7	15,0	-	-		2,8 m	5,2	14,0	5,2	14,0	
3,0 m	6,9	15,7	-	-		3,0 m	5,3	14,3	5,3	14,3	
3,2 m	7,2	16,5	-	-		3,2 m	5,3	14,5	5,3	14,5	
3,5 m	7,5	17,4	-	-		3,5 m	5,3	14,5	5,3	14,5	

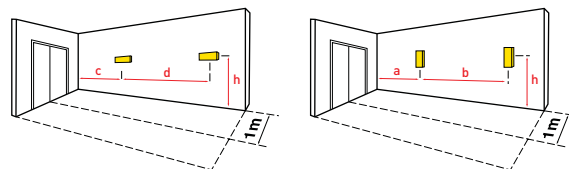
KB reflector



1 lux	KB – 230 lm					0,5 lux	KB – 230 lm					1 lux	KB – 430 lm					0,5 lux	KB – 430 lm				
2,8 m	4,8	12,5	2,6	6,7		2,8 m	6,3	15,5	3,4	8,2		2,8 m	6,1	15,2	3,3	8,1		2,8 m	7,6	18,7	4,1	9,7	
3,0 m	4,9	12,8	2,6	6,8		3,0 m	6,4	16,0	3,4	8,5		3,0 m	6,2	15,7	3,3	8,3		3,0 m	7,8	19,3	4,2	10,1	
3,5 m	4,9	13,3	2,6	7,1		3,5 m	6,7	17,0	3,6	9,1		3,5 m	6,5	16,6	3,5	8,9		3,5 m	8,3	20,6	4,5	10,9	
4,0 m	4,9	13,6	2,5	7,3		4,0 m	6,8	17,8	3,6	9,5		4,0 m	6,6	17,4	3,5	9,3		4,0 m	8,7	21,8	4,7	11,6	
5,0 m	4,6	13,8	1,9	7,2		5,0 m	6,9	18,9	3,6	10,1		5,0 m	6,7	18,4	3,5	9,9		5,0 m	9,2	23,8	4,9	12,7	

Lumen output and interdistances: data under reservation. The ETAP interdistances are guaranteed until the end of the lifetime of the light source. The reduction in light output of the light source according to standard EN 50698-2.22 is taken into account in the published values.

DISTANCE TABLES: WALL MOUNTED



K1 Fresnel lens



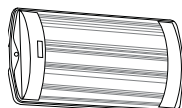
h	a	b	c	d	h	a	b	c	d	h	a	b	c	d	h	a	b	c	d
1 lux K11 – 200 lm					0,5 lux K11 – 200 lm					1 lux K11 – 450 lm					0,5 lux K11 – 450 lm				
1,5 m	3,0	7,6	2,6	6,0	1,5 m	3,8	9,7	3,0	7,0	1,5 m	3,9	9,7	3,1	7,2	1,5 m	4,9	12,2	3,6	8,4
2,0 m	3,0	7,9	2,7	6,3	2,0 m	3,9	10,1	3,2	7,4	2,0 m	3,9	10,2	3,2	7,7	2,0 m	5,1	13,0	3,9	9,0
2,5 m	2,8	7,8	2,7	6,6	2,5 m	3,9	10,3	3,3	7,8	2,5 m	3,9	10,4	3,4	8,1	2,5 m	5,2	13,5	4,1	9,6

K1 diffuser



1 lux	K13 – 200 lm				0,5 lux	K13 – 200 lm				1 lux	K13+K1EDO – 170 lm				0,5 lux	K13+K1EDO – 170 lm			
1,5 m	3,3	8,8	2,4	5,8	1,5 m	4,4	11,4	2,9	7,0	1,5 m	3,0	8,3	2,3	5,6	1,5 m	4,1	10,8	2,8	6,7
2,0 m	3,3	9,2	2,6	6,4	2,0 m	4,6	12,2	3,2	7,7	2,0 m	3,0	8,6	2,4	6,1	2,0 m	4,3	11,5	3,1	7,4
2,5 m	3,1	9,3	2,7	6,8	2,5 m	4,7	12,7	3,4	8,3	2,5 m	2,6	8,6	2,5	6,5	2,5 m	4,3	11,8	3,3	8,0

K2 Fresnel lens



1 lux	K2 – 200 lm				0,5 lux	K2 – 200 lm				1 lux	K2 – 500 lm				0,5 lux	K2 – 500 lm			
1,5 m	2,9	7,4	2,4	5,7	1,5 m	3,7	9,2	2,9	6,7	1,5 m	3,9	9,8	3,0	7,2	1,5 m	4,9	12,2	3,6	8,4
2,0 m	2,9	7,6	2,6	6,1	2,0 m	3,8	9,8	3,1	7,1	2,0 m	4,1	10,4	3,3	7,8	2,0 m	5,2	13,1	3,9	9,2
2,5 m	2,7	7,7	2,6	6,5	2,5 m	3,9	10,1	3,2	7,7	2,5 m	4,1	10,8	3,4	8,2	2,5 m	5,4	13,8	4,1	10,0

K3 reflector



1 lux	K3 – 470 lm				0,5 lux	K3 – 470 lm				1 lux	K3 – 840 lm				0,5 lux	K3 – 840 lm			
2,0 m	4,7	12,1	3,7	8,8	2,0 m	6,1	15,5	4,4	10,4	2,0 m	5,8	14,9	4,3	10,2	2,0 m	7,5	19,0	5,1	12,0
3,0 m	4,7	12,8	4,1	10,2	3,0 m	6,4	17,0	5,1	12,3	3,0 m	6,1	16,3	5,0	12,0	3,0 m	8,2	21,1	6,0	14,3
4,0 m	-	-	4,2	11,0	4,0 m	-	11,2	5,5	13,6	4,0 m	-	9,7	5,3	13,1	4,0 m	8,5	22,5	6,6	16,0

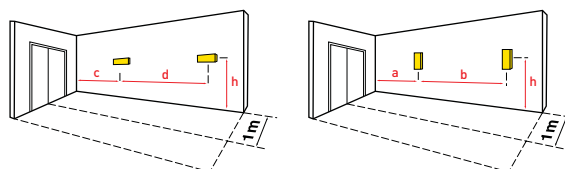
K5 diffuser



1 lux	K5 – 200 lm				0,5 lux	K5 – 200 lm				1 lux	K5 – 290 lm				0,5 lux	K5 – 290 lm			
1,5 m	2,3	5,6	2,2	5,4	1,5 m	2,8	6,8	2,7	6,5	1,5 m	2,6	6,2	2,5	6,0	1,5 m	3,1	7,5	3,0	7,2
2,0 m	2,2	5,5	2,1	5,4	2,0 m	2,8	6,7	2,7	6,6	2,0 m	2,5	6,1	2,5	6,0	2,0 m	3,1	7,5	3,0	7,3
2,5 m	1,7	5,1	1,8	5,1	2,5 m	2,6	6,6	2,6	6,5	2,5 m	2,2	5,9	2,2	5,9	2,5 m	3,0	7,3	3,0	7,2

Lumen output and interdistances: data under reservation. The ETAP interdistances are guaranteed until the end of the lifetime of the light source. The reduction in light output of the light source according to standard EN 50698-2.22 is taken into account in the published values.

WALL MOUNTED



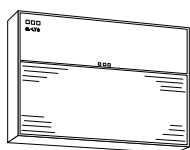
h	a	b	c	d
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h	a	b	c	d
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h	a	b	c	d
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h	a	b	c	d
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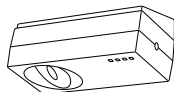
K6 opal diffuser



1 lux	K6 – 120 lm				
1,5 m	1,9	4,9	1,9	4,9	
2,0 m	1,7	4,8	1,7	4,8	
2,5 m	1,2	4,4	1,2	4,4	

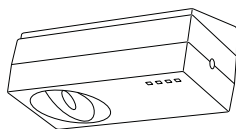
0,5 lux	K6 – 120 lm				
1,5 m	2,5	6,2	2,5	6,2	
2,0 m	2,4	6,2	2,4	6,2	
2,5 m	2,2	6,0	2,2	6,0	

K7 non-maintained



1 lux	K7 escape route ≤ 3,5 m				
1,5 m	-	-	4,1	9,2	
2,0 m	-	-	5,1	11,6	
2,5 m	-	-	5,9	13,7	
2,8 m	-	-	6,3	14,8	
3,0 m	-	-	6,7	15,5	

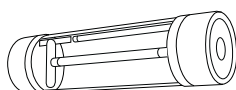
K7 maintained



1 lux	K7 escape route ≤ 3,5 m				
1,5 m	-	-	4,1	9,2	
2,0 m	-	-	5,1	11,6	
2,5 m	-	-	5,9	13,7	
2,8 m	-	-	6,3	14,8	
3,0 m	-	-	6,7	15,5	

1 lux	K7 comfort ≤ 3,5 m				
1,5 m	-	-	2,2	5,6	
2,0 m	-	-	2,4	6,3	
2,5 m	-	-	2,5	6,8	
2,8 m	-	-	2,5	7,1	
3,0 m	-	-	2,5	7,1	

KB



1 lux	KB – 230 lm				
1,5 m	3,5	8,8	2,7	6,4	
2,0 m	3,5	9,1	3,0	7,2	
2,5 m	-	-	3,1	7,7	

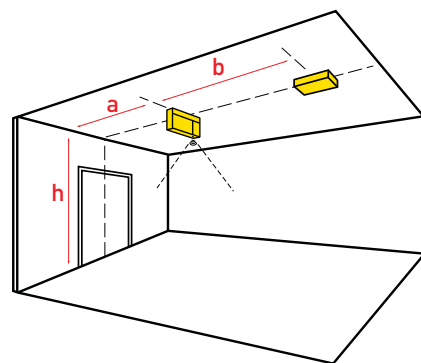
0,5 lux	KB – 230 lm				
1,5 m	4,4	11,2	3,2	7,4	
2,0 m	4,6	11,8	3,6	8,4	
2,5 m	-	10,4	3,9	9,1	

1 lux	KB – 430 lm				
1,5 m	4,3	10,9	3,1	7,3	
2,0 m	4,5	11,5	3,5	8,3	
2,5 m	-	8,8	3,8	9,0	

0,5 lux	KB – 430 lm				
1,5 m	5,5	13,7	3,7	8,4	
2,0 m	5,8	14,7	4,2	9,5	
2,5 m	6,0	15,5	4,5	10,6	

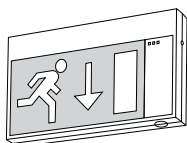
Lumen output and interdistances: data under reservation. The ETAP interdistances are guaranteed until the end of the lifetime of the light source. The reduction in light output of the light source according to standard EN 50698-2.22 is taken into account in the published values.

DISTANCE TABLES: BETWEEN SIGNAGE AND ESCAPE ROUTE LIGHTING



h	a	b	c	d
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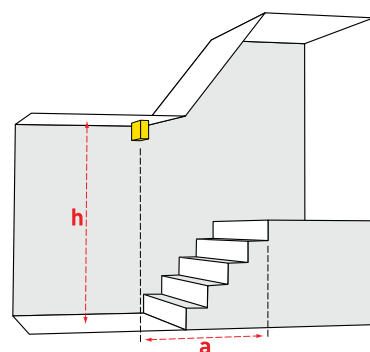
**K7 signage with
escape route
module L1**



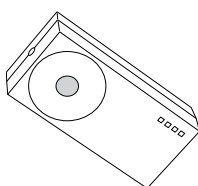
1 lux	K7 ceiling			
2,6 m	4,8	12,2	-	-
2,8 m	5,1	12,9	-	-
3,0 m	5,3	13,6	-	-
3,2 m	5,5	14,2	-	-
3,5 m	5,7	15,1	-	-

¹ tussenafstanden tot 10 jaar bij permanent gebruik

DISTANCE TABLES: STAIRWAY LIGHTING²



K7

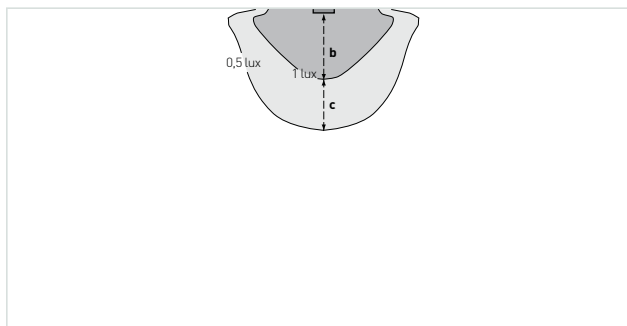
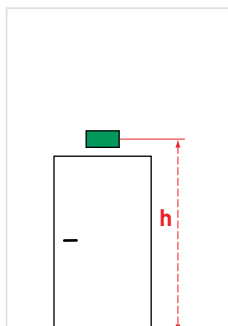
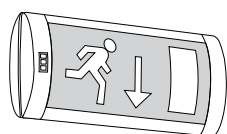


1 lux	K7 stairway – 85 lm				5 lux	K7 stairway – 85 lm			
2,6 m	2,25	-	-	-	2,6 m	1,75	-	-	-
2,8 m	2,25	-	-	-	2,8 m	2,0	-	-	-
3,0 m	2,25	-	-	-	3,0 m	2,0	-	-	-
3,2 m	2,5	-	-	-	3,2 m	2,25	-	-	-
3,5 m	2,75	-	-	-	3,5 m	2,25	-	-	-

² height step: 18,5 cm / depth step: 25 cm

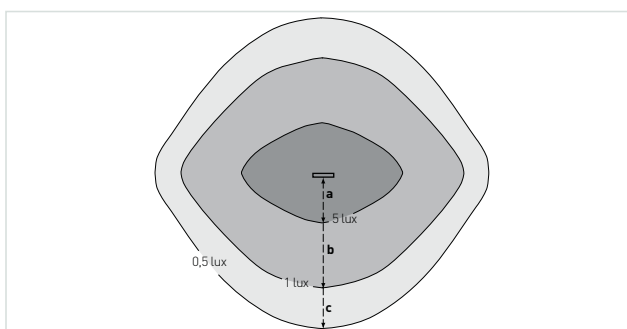
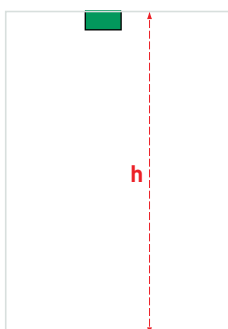
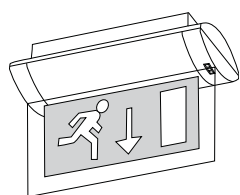
DISTANCE TABLES: MOUNTED WITH SIGN

K1 T5 6W lamp type
wall mounted



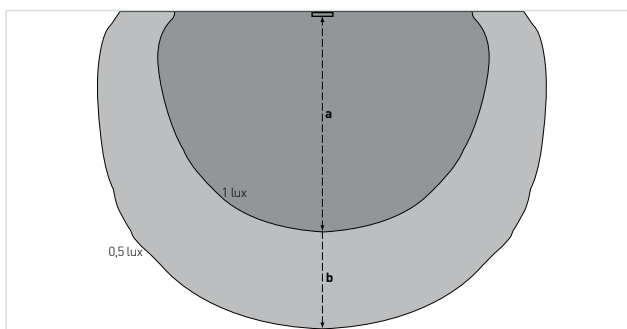
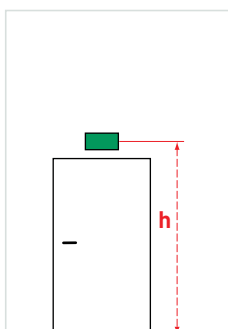
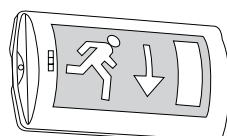
65 lm			
h	5 lx (a)	1 lx (b)	0,5 lx (c)
2,25 m	-	1,7	3,1
2,70 m	-	-	2,9

K1 ceiling mounted



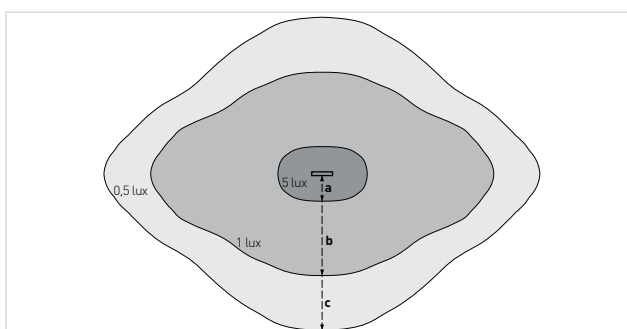
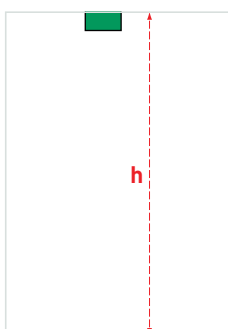
160 lm			
h	5 lx (a)	1 lx (b)	0,5 lx (c)
2,25 m	1,3	3,0	4,0
2,70 m	1,1	3,0	4,2

K2 T5 6W lamp type
wall mounted



100 lm			
h	5 lx (a)	1 lx (b)	0,5 lx (c)
2,25 m	-	2,7	3,9
2,70 m	-	2,5	3,8

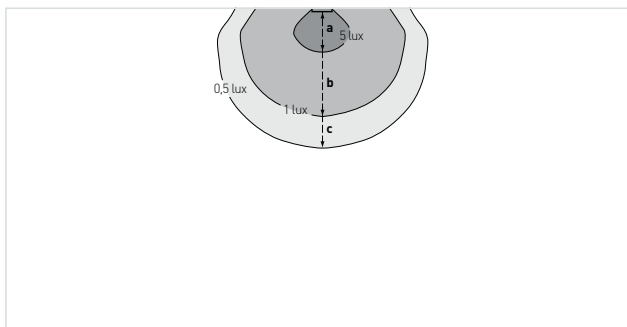
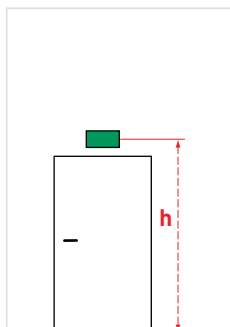
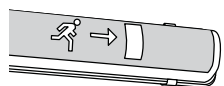
K2 T5 6W lamp type
ceiling mounted



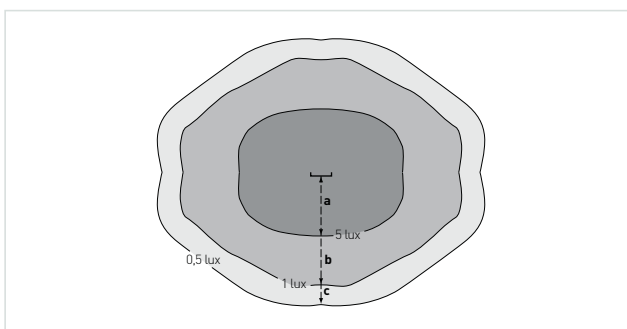
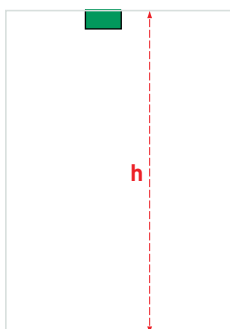
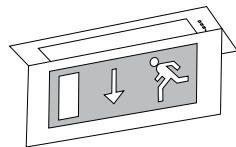
88 lm			
h	5 lx (a)	1 lx (b)	0,5 lx (c)
2,25 m	0,5	1,9	3,0
2,70 m	-	1,9	2,8

Lumen output and interdistances: data under reservation. The ETAP interdistances are guaranteed until the end of the lifetime of the light source. The reduction in light output of the light source according to standard EN 50698-2.22 is taken into account in the published values.

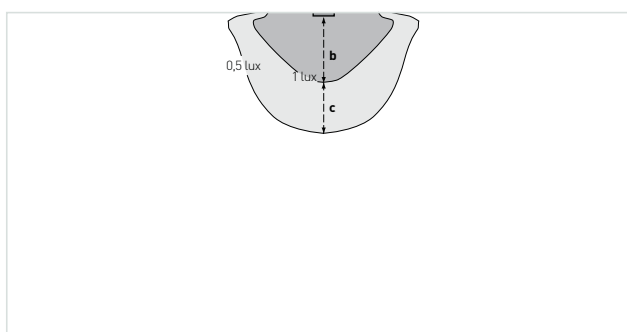
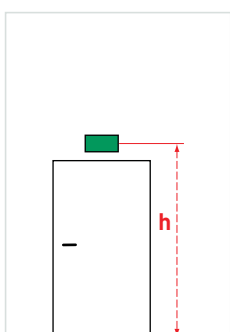
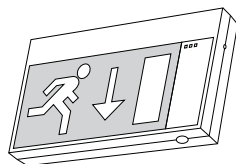
MOUNTED WITH SIGN

K3 wall mounted

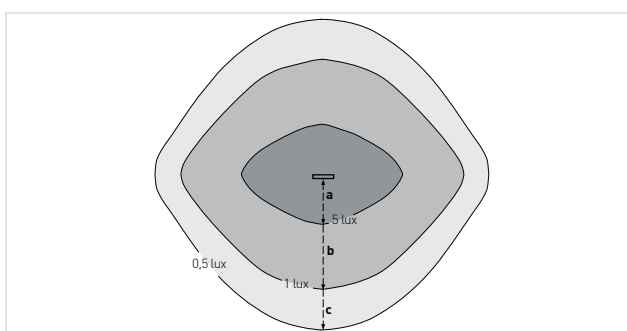
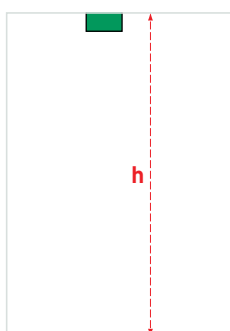
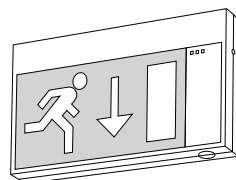
120 lm			
h	5 lx (a)	1 lx (b)	0,5 lx (c)
2,25 m	1,4	2,4	-
2,70 m	1,5	2,3	-

K5 ceiling mounted

120 lm			
h	5 lx (a)	1 lx (b)	0,5 lx (c)
2,25 m	1,2	2,2	2,6
2,70 m	1,3	2,4	2,9

K7 with spotlight module L2 wall mounted

120 lm			
h	5 lx (a)	1 lx (b)	0,5 lx (c)
2,25 m	0,8	1,5	1,8
2,70 m	0,8	1,5	1,9
3,00 m	0,8	1,6	2,0
4,00 m	0,9	1,6	2,2

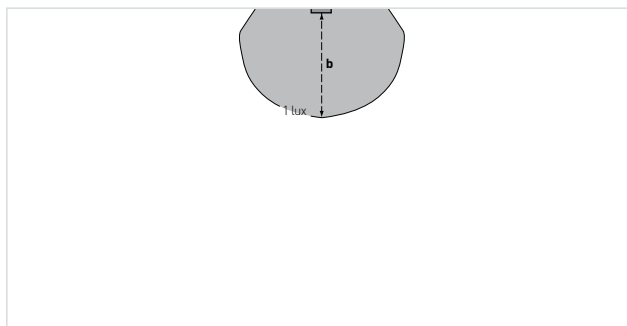
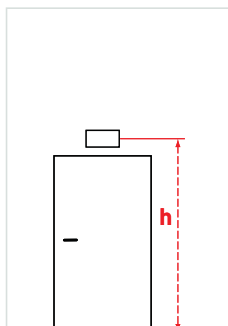
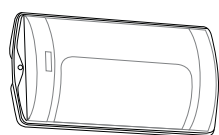
K7 with spotlight module L2 ceiling mounted

120 lm			
h	5 lx (a)	1 lx (b)	0,5 lx (c)
2,25 m	0,7	1,4	1,7
2,70 m	0,7	1,5	1,8
3,00 m	0,8	1,5	1,9
4,00 m	0,8	1,5	2,1

Lumen output and interdistances: data under reservation. The ETAP interdistances are guaranteed until the end of the lifetime of the light source. The reduction in light output of the light source according to standard EN 50698-2.22 is taken into account in the published values.

DISTANCE TABLES: EXTERIOR LIGHTING OF FINAL EMERGENCY EXIT

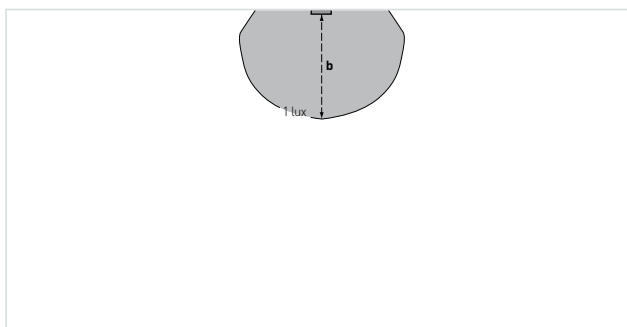
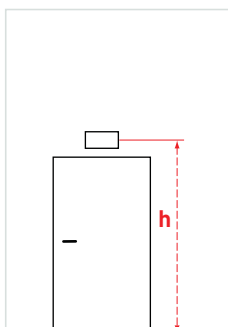
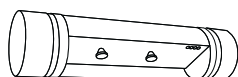
K2 wall mounted



22 lm ²			
h	5 lx (a)	1 lx (b)	0,5 lx (c)
2,25 m	-	1,6	-
2,75 m	-	1,8	-
3,00 m	-	1,8	-
4,00 m	-	2,0	-
5,00 m	-	1,1-2,1	-

² lumen output end service period (50 %)

KB wall mounted



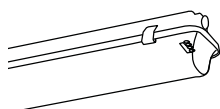
45 lm ²			
h	5 lx (a)	1 lx (b)	0,5 lx (c)
2,25 m	-	2,6	-
2,75 m	-	2,8	-
3,00 m	-	3,0	-
4,00 m	-	3,1	-
5,00 m	-	3,4	-

² lumen output end service period (50 %)

Lumen output and interdistances: data under reservation. The ETAP interdistances are guaranteed until the end of the lifetime of the light source. The reduction in light output of the light source according to standard EN 50698-2.22 is taken into account in the published values.

DISTANCE TABLES: MOUNTED OVER A HIGH RISK TASK AREA

K39



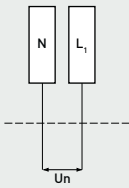
mounting height (m)	E _{min} ³ (lux)
1,0	150
1,5	110
2,0	70
3,0	45
4,0	20

³ minimum horizontal illuminance on a work plane 1,5 x 1 m

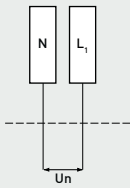
WIRING DIAGRAMS EMERGENCY LIGHTING

CONNECTION TO THE MAINS

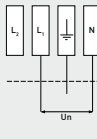
K1 – K2



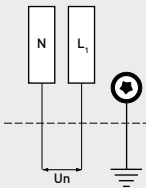
K1(LED) – K2(LED) – K7(light)



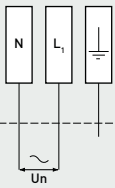
K3 – K5 – K6 – KB(fluo)



K7(signage) – K9

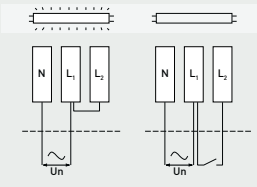


KB(LED) – KL



SELF CONTAINED LUMINAIRE OF THE MAINTAINED TYPE

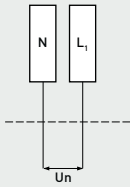
K1 – K2



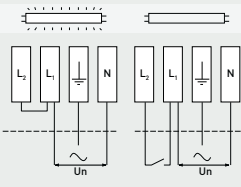
Maintained
function of
the lamp

Function of
the lamp in
standby state,
remote switching

K1(LED) – K2(LED) – K7(light)



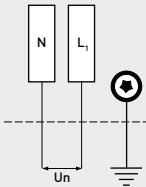
K3 – K5 – K6 – KB(fluo)



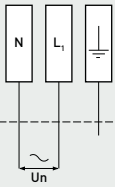
Maintained
function of
the lamp

Function of
the lamp in
standby state,
remote switching

K7(signage) – K9



KB(LED) – KL



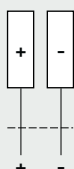
SET UP OF NON-MAINTAINED OR MAINTAINED OPERATION

K7 SIGNAGE

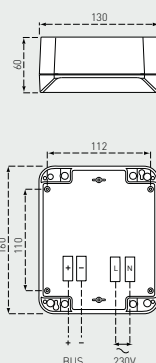
		signage	module
standard configuration		maintained	non-maintained
removal of 1 st jumper		non-maintained	non-maintained
removal of 2 nd jumper		maintained	maintained

ETAP SAFETY MANAGER (ESM): WIRED / WIRELESS

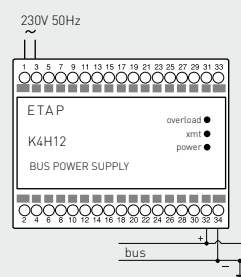
BUS connection luminaires



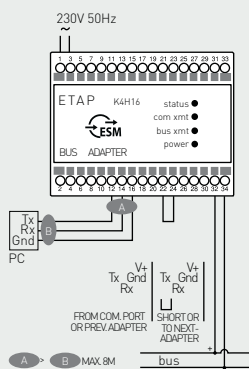
Coordinator wireless communication



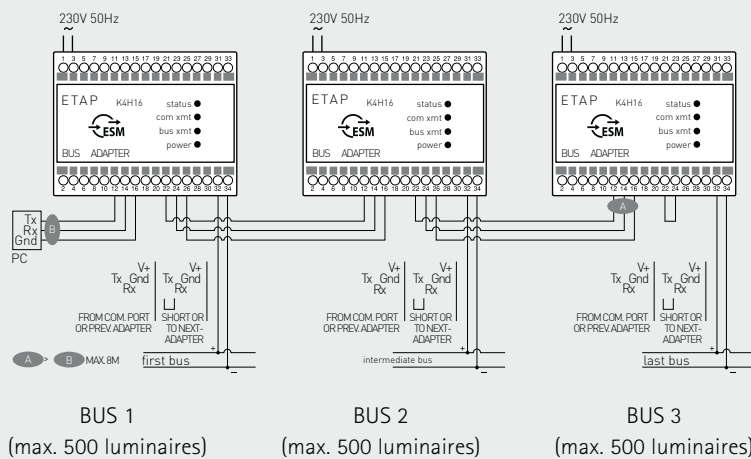
BUS power supply K4H12



BUS adapter K4H16

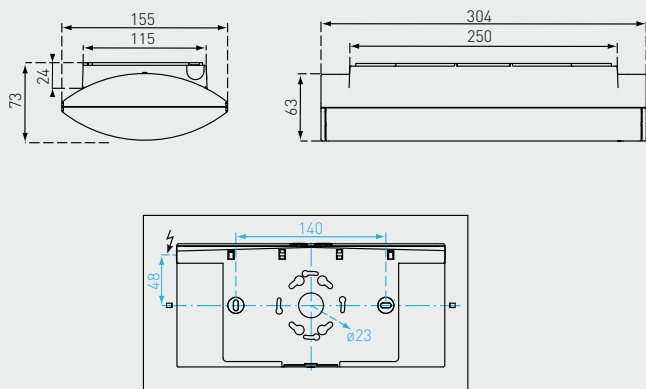


Connecting multiple BUS adapters

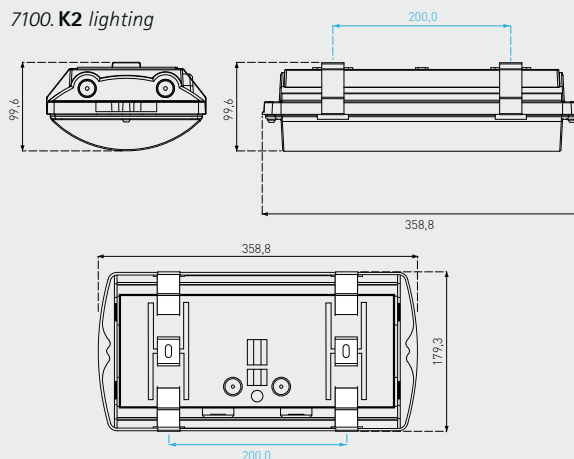


DIMENSIONAL SKETCHES

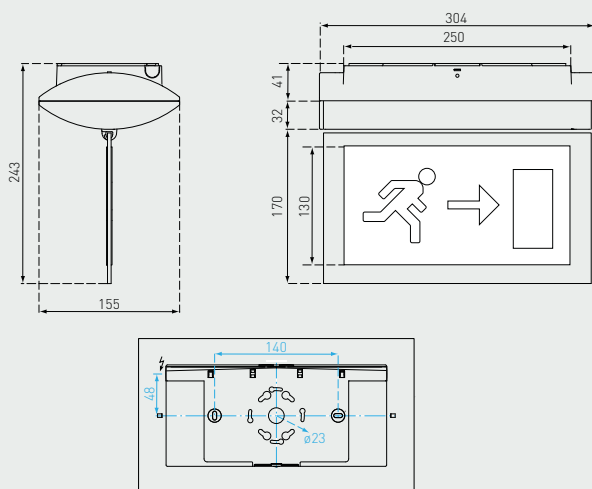
7000. K1 lighting and single sided signage



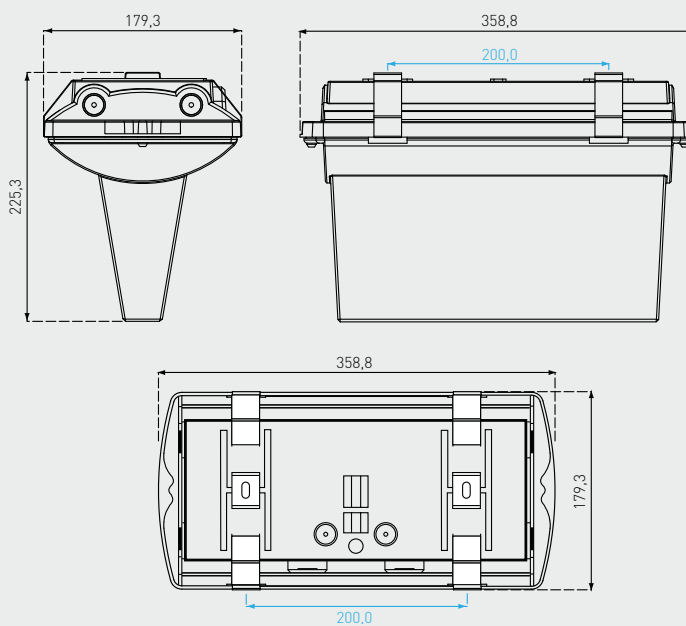
7100. K2 lighting



7001. K1 single and double sided signage

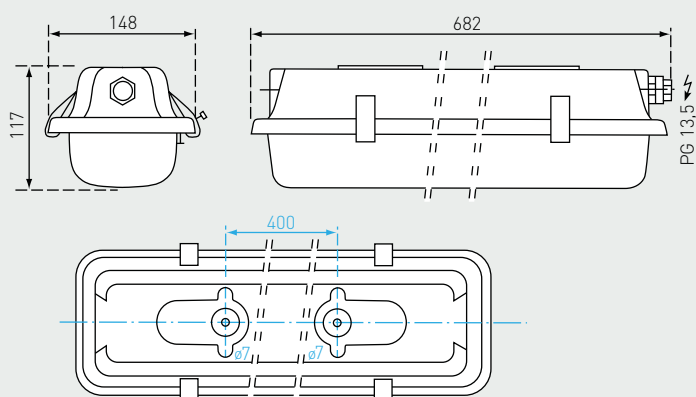


7101. K2 single and double sided signage

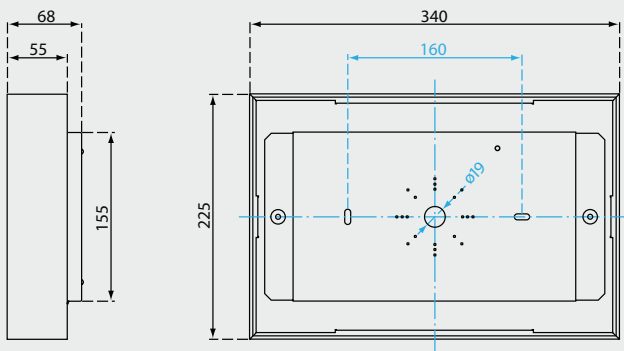


DIMENSIONAL SKETCHES

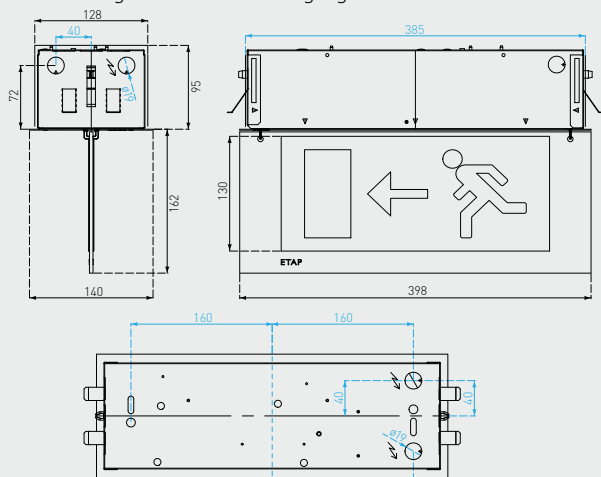
7200. **K3** lighting and single sided signage



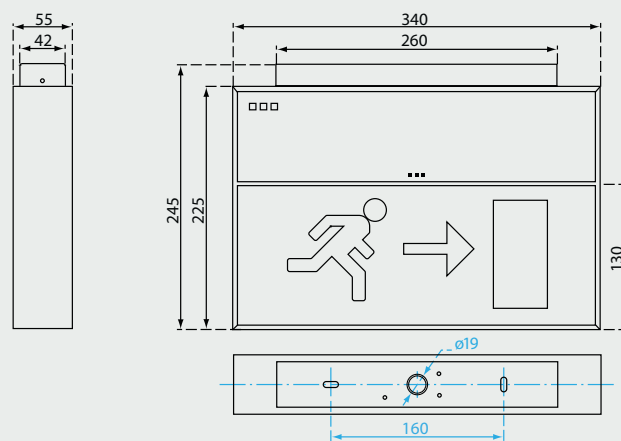
7400. **K6** lighting and single sided signage



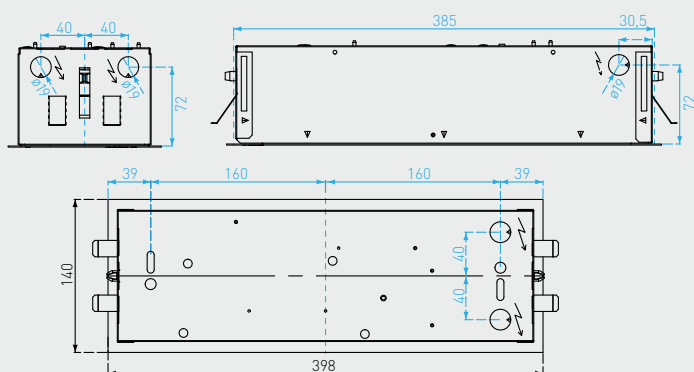
7300. **K5** single and double sided signage



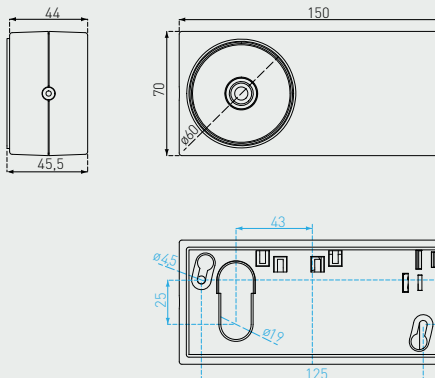
7402. **K6** single and double sided signage



7302. **K5** lighting and single sided signage

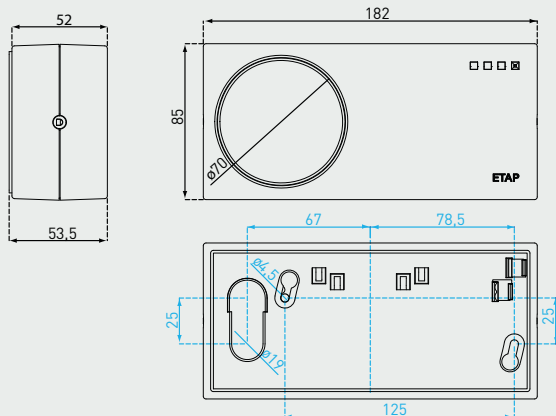


7500a. **K7** lighting, small luminaire

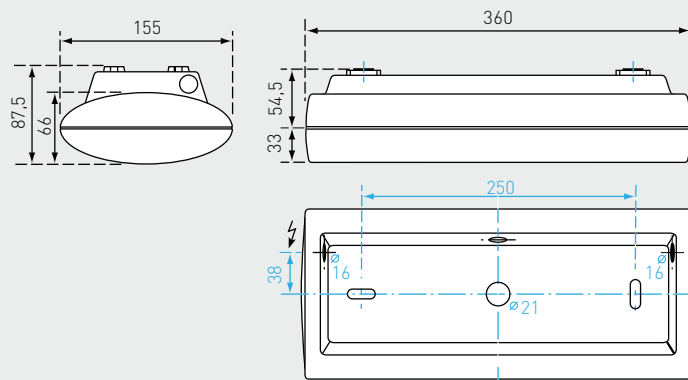


DIMENSIONAL SKETCHES

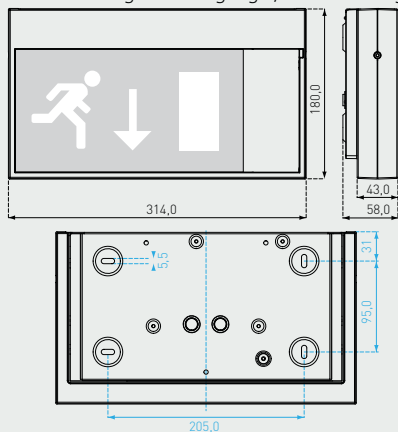
7500b. **K7** lighting, large luminaire



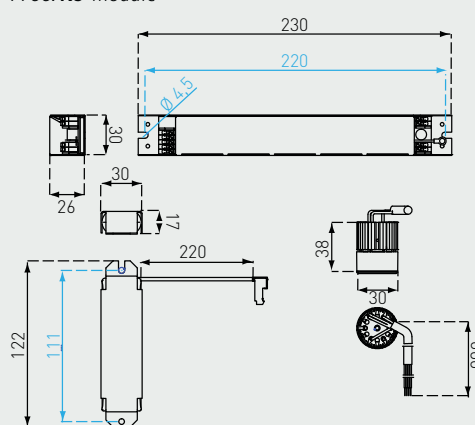
7650. **K8** lighting



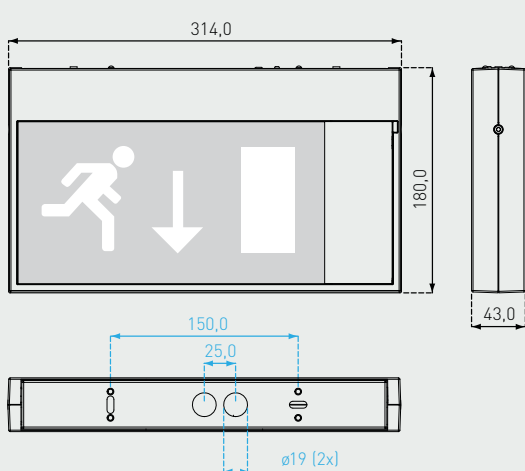
7501a. **K7** single sided signagel, wall mounting



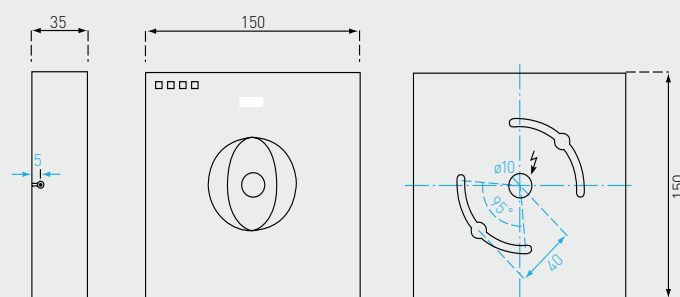
7700. **K9** module



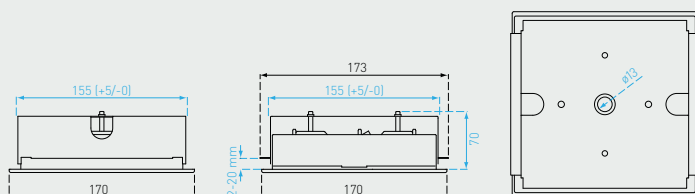
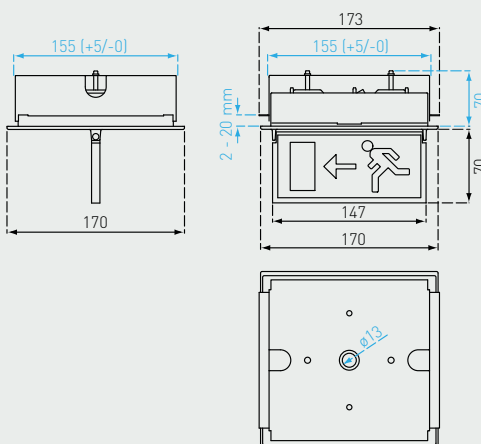
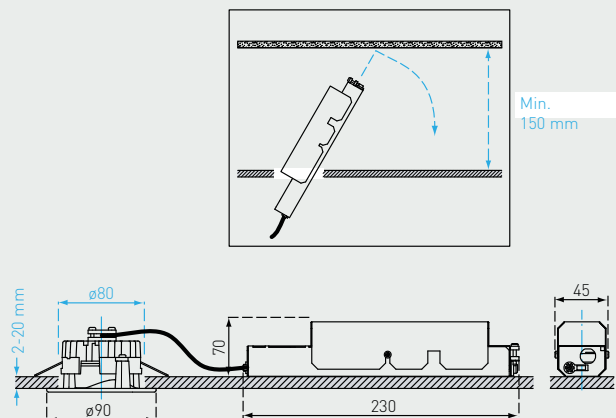
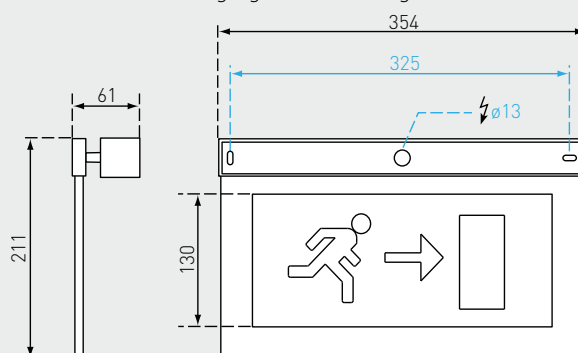
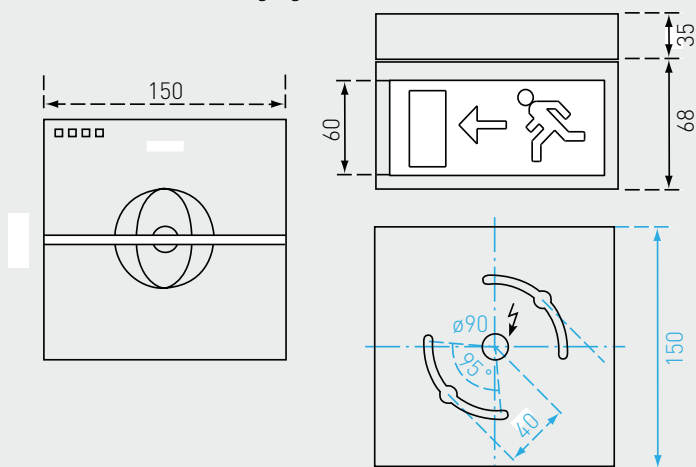
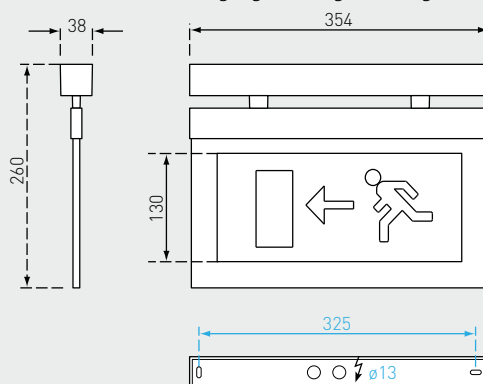
7501b. **K7** single and double sided signage, ceiling mounting



7704a. **K9** lighting - square - surface

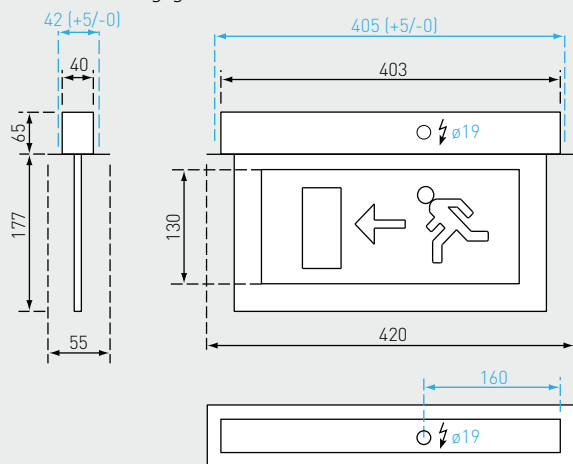


DIMENSIONAL SKETCHES

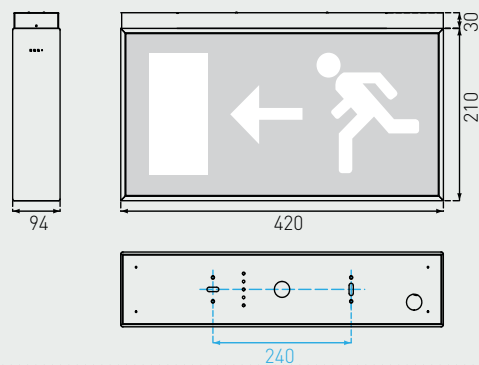
7704b. **K9** lighting - square - recessed7708b. **K9** non-maintained signage - recessed7704c. **K9** lighting - round7709a. **K9** maintained signage - wall mounting7708a. **K9** non-maintained signage - surface7709b. **K9** maintained signage - ceiling mounting

DIMENSIONAL SKETCHES

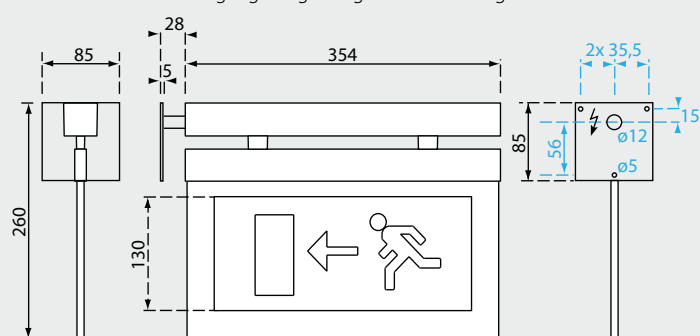
7709c. **K9** maintained singage - recessed



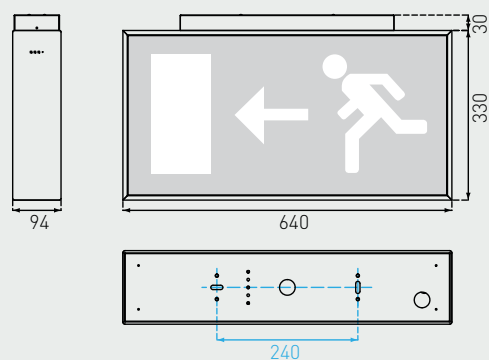
7900. **KL7**



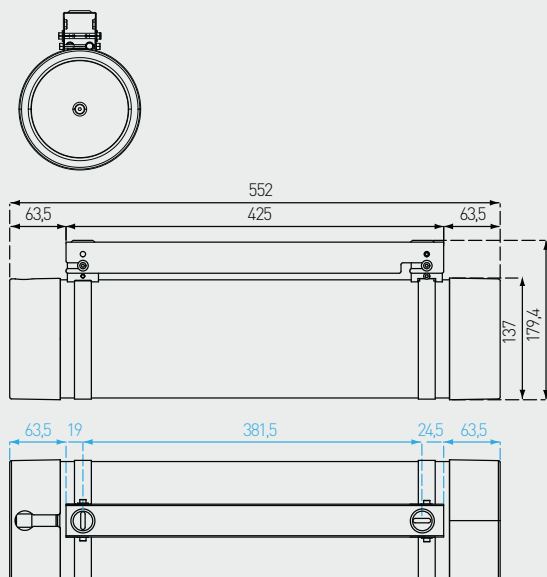
7709d. **K9** maintained signage - right angle wall mounting



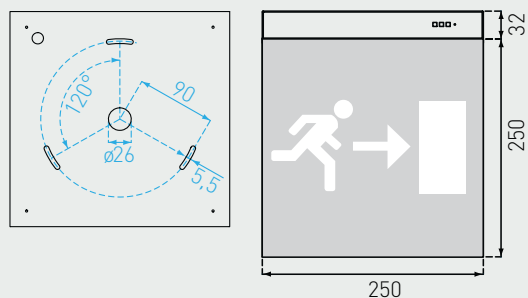
7901. **KL8**



7800. **KB** lighting and signage



7902. **KL9**



EMERGENCY LIGHTING GUARANTEE

1. ETAP guarantees that its emergency lighting luminaires are free of material and/or construction defects for a period of **5 years** following the date of purchase by the customer.
 - 1.1. This 5-year guarantee also applies to the batteries of self-contained luminaires. The specified duration is guaranteed for this 5-year period.
 - 1.2. This 5-year guarantee also applies to the LED light source of ETAP emergency lighting luminaires with the exception of luminaires having a specifically shorter lifetime as published at the time of delivery. The specified light levels in emergency mode are guaranteed for this 5-year period.
2. ETAP central battery systems, with the exception of the battery, are covered by a 2-year guarantee.
3. If, during this guarantee period, defects occur following the use of inferior materials and/or construction, ETAP shall repair or replace the defective parts by identical or equivalent parts, (to be evaluated by ETAP) without charging labour or parts in accordance with the following terms and conditions.
4. This guarantee is only provided on presentation of the original invoice issued by ETAP to the customer, in accordance with the specified general terms and conditions of sale and delivery.
5. This guarantee does not cover:
 - 5.1. Periodic testing, maintenance and repair or replacement of the fluorescent light source or parts other than those specified in 2 and 3 following normal wear and tear.
 - 5.2. Cost and risk of transport as well as call-out charges or assembly that is directly or indirectly related to the guarantee.
 - 5.3. Damage to the above-mentioned products following:
 - 5.3.1. Misuse or incorrect use, including but not limited to:
 - * improper use that is not in accordance with ETAP instructions regarding the correct use and maintenance of the products. Unless otherwise specified, the ambient temperature needs to be between +5° and +35°C.
 - * installation or use of ETAP products that is not in accordance with technical or safety standards.
 - 5.3.2. Repairs or modifications not carried out by ETAP.
 - 5.3.3. Accidents, force majeure, or any other cause that is beyond ETAP's control, including, but not limited to, lightning, water, fire, insufficient ventilation and civil disorder.
 - 5.3.4. Products whose date of manufacture or serial number has been removed, made illegible, or changed.
6. ETAP cannot be held liable for consequential damages.
7. This guarantee deviates from the 1-year general guarantee period as specified in Article 8.1 of our General Terms and Conditions of Sale and Delivery which will otherwise remain in full effect.

TABLE EXPLANATION EMERGENCY LIGHTING

HEADING

LON®	addressable luminaires
EUG	Emergency Unit Gateway
N	non-maintained
P	maintained



ALADIN	182	FS1	161	R4873	93	U160	19
AMANTA	182	FS2	161	R4874	87	U163	19
ASKY	183	FUZO	120	R4875	93	U170	17
ATITA	183	GUIDE	176	R4876	89	U31	22
AVELA	184	GROUNDMOVE	189	R4877	96	U36	22
AXTRA	184	MINI	195	R4878	89	U38	23
B10	216	MILKY-WAY	162	R4879	96	U39	23
B11	216	K11	272	R4880	84	U585	29
BARRY	188	K13	272	R4881	91	U586	27
BLOQ	170	k14	277	R4882	87	U587	27
D10	139	K17	272	R4883	93	U587...TO	28-32
D12	139	K21	281	R4884	87	U589	28
D14	140	K23	283	R4885	93	UJ201	33
D16	140	K24	285	R4886	89	UJ403	34
D18	140	K27	281	R4887	96	UM10	35
D2	143	K28	281	R4888	89	UM11	35
D30	145	K3	289	R4889	96	UM18	37
D36	146	K5R1	293	R4901	91	UM2	41
D4	147	K5R3	293	R4F00	85	UT186	42
D5	149	K5R4	293	R4F01	92	UT187	42
D9	151	K61	299	R4F02	88	UT188	42
DALLE	51	K62	303	R4F03	95	UT1F	48
DIPP3	155	K63	299	R4F04	88	UT1J	48
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DIPP6	156	K65	303	R4J00	85	UW	179
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E13	221	K73	311	R4J04	88	V1M1B	134
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E2	224	K90	317	R587	99-100	V1M2	133
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E33	203	K93	319-321	R8F	103-104	V1MF	134
E34	204	K94	324	R8J	103-104	V1MJ	134
E35	204	K95	325	R9	235	V1MK9	135
E36	205	KB1	329	RIOT	166	V2M14	127
E37	205	KB4	331	RJ55	106	V2M18	127-128
E38	207	KB8	329	RT1860	107	V2M1B	128
E39	207	KL7	335	RT1861	108	V2M1F	127
E42	225	KL8	335	RT1863	108	V2M1J	127
E44	225	KL9	335	RT1870	107	V2MC1	129
E52	209	LEDSTRIP20	190	RT1871	109	V2MC2	129
E53	211	LEDSTRIP30	193	RT1873	109	V2MF	128
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FACTOR	157	R4870	84	U144	18		
FLARE-1	159	R4871	91	U158	19		
FLARE-2	160	R4872	87	U159	19		



Mixed Sources

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