Linear Luminaire with LED
Series EXLUX 6002/2 Version IIC

16707E00

- For use in hazardous areas with gas group IIC
- Latest LED technology with a high luminous efficacy and a long service life
- As pendant light fitting or pole mounted light fitting
- Central locking

The luminaires with LED Series **EXLUX 6002** are suitable for general lighting of indoor and outdoor areas. The luminaires with LED were designed for 1 to 1 replacing of luminaires with fluorescent lamps. An equivalent luminous flux by lower energy consumption ensures an increase in efficiency of the lighting system.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
For use in		x	x		x	x

Explosion Protection	
Global (IECEx)	
Gas and dust	IECEx IBE 14.0035 Ex db eb op is IIC T4 Gb Ex tb op is IIIC T100°C Db
Europe (ATEX)	
Gas and dust	IBExU 14ATEX1088 Ex II 2 G Ex db eb op is IIC T4 Gb Ex II 2 D Ex tb op is IIIC T100°C Db
Certifications and certificates	
Certificates	IECEx, ATEX, India (PESO), Kazakhstan (TR), Russia (TR), Belarus (TR)

WebCode 6002C

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Selection Table

Version	Colour temperature	CRI	Length mm	Power consumption	Cable entry	Order number	Weight kg
EXLUX 6002 Gasgruppe IIC	5,000 K	≥ 80	700	28 W	3x M25 Plastic	**6002/2182-5400-5131-0**	4.300
					3x M20 Metal	**6002/2182-5400-5232-0**	4.300
			1310	52 W	3x M25 Plastic	**6002/2284-5400-5131-0**	6.600
					3x M20 Metal	**6002/2284-5400-5232-0**	6.600
	5,700 K	≥ 70	700	28 W	3x M25 Plastic	**6002/2182-5400-5131-1**	4.300
					3x M20 Metal	**6002/2182-5400-5232-1**	4.300
			1310	52 W	3x M25 Plastic	**6002/2284-5400-5131-1**	6.600
					3x M20 Metal	**6002/2284-5400-5232-1**	6.600

Note
The light fittings are delivered without mounting material.
These accessories must be ordered separately!

Technical Data

Electrical data

Control gear

AC: 110 V to 240 V ±10%; 50 to 60 Hz
DC: 110 V to 250 V ±10%

	6002/.1.2-....-....-.		6002/.2.4-....-....-.	
Power consumption [W]	28		52	
Voltage [V]	230	110	230	110
Frequency [Hz]	50	60	50	60
Power factor	> 0.90	> 0.99	> 0.95	> 0.99
THD [%]	< 8	< 12	< 6	< 6

Optionally available with DALI interface in accordance with IEC 62386-207:2009-08

Inrush current

I_{peak} = 51 A; Δt = 127 µs
maximum number of luminaires per miniature circuit breaker at 230 V:

Type	10 A	16 A	20 A	25 A
B	8	13	16	20
C	13	22	27	34
K	27	44	55	69

Technical Data

Luminous characteristics

	6002/.1.2-....-....-0	6002/.2.4-....-....-0	6002/.1.2-....-....-1	6002/.2.4-....-....-1
Power consumption [W]	28	52	28	52
Colour rendering [CRI]	≥ 80	≥ 80	≥ 70	≥ 70
Colour temperature [K]	5,000	5,000	5,700	5,700
without diffuser				
Luminous flux [lm]	2,850	5,700	3,150	6,300
Luminaire efficacy [lm/W]	102	110	113	121
with diffuser				
Luminous flux [lm]	2,350	4,700	2,600	5,200
Luminaire efficacy [lm/W]	84	90	93	100

Values apply to T_a = +25 °C.
Luminous flux decrease
- at T_a = +60 °C to ≥ 70 % of the nominal value.
- during DC operation to 50%.

Ambient conditions

Operating temperature range	-40 ... +60 °C luminaires without through wiring -40 ... +60 °C luminaires with through wiring; I_N ≤ 10 A -40 ... +50 °C luminaires with through wiring; I_N ≤ 16 A
Storage	-40 ... +75 °C

Service life

Service life

	T_a ≤ 25 °C	T_a ≤ 45 °C	T_a ≤ 60 °C
$L_{70}B_{10}C_{10}$	100,000 h	90,000 h	50,000 h

$L_xB_yC_z$
At the end of the service life:
- Luminous flux decrease to "x" percent
- up to "y" percent of all luminaires fall below "x"
- up to "z" percent of all luminaires break down completely

Mechanical data

Degree of protection	IP66 / IP67 (IEC 60598)
Protection class	I (with internal PE connection)
Impact strength (IK code)	IK10 (IEC 62262)
Material	
Enclosure	
Material	Polyester resin, glass fibre-reinforced
Colour	colour grey, similar to RAL 7035
Seal	Silicone foam gasket in the lamp cover
Translucent cover	Polycarbonate
Luminaire locking	Central locking which can be opened/closed using a socket key M8 / wrench size 13, hinged lamp cover

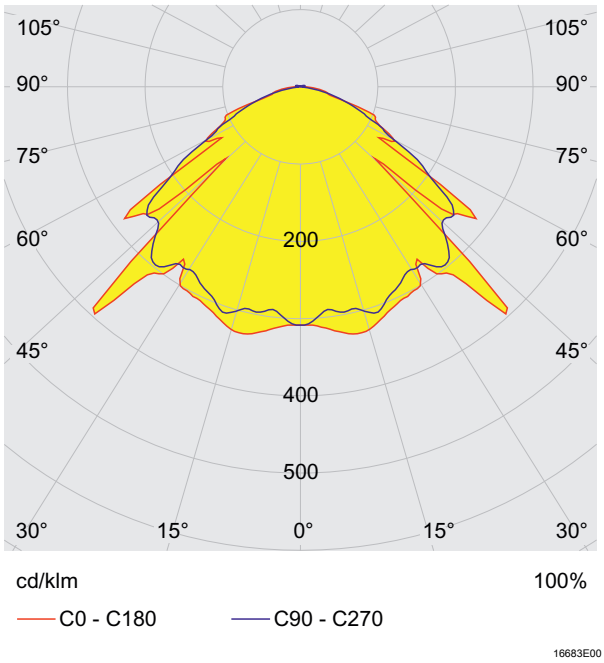
Technical Data

Mounting / Installation

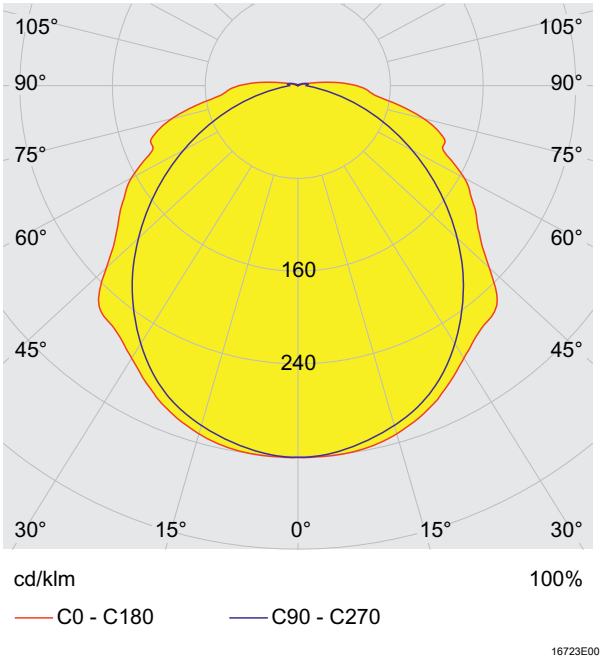
Cable glands	**Standard luminaire** Plastic: 2 x M25 x 1.5 cable glands 8161 and 2 x M25 x 1.5 stopping plugs 8290 (enclosed) Metal: 2 x metal plates M20 x 1.5 connected by means of PE for metal cable entries Attention: cable entries must be ordered separately Special: max. 4 bores for M20, M25, NPSM ½" max. 2 bores for NPT ¾" Metal cable glands: M20 x 1.5, M25 x 1.5; earthing of the metal cable entries by means of metal plates
Connection	**Standard:** Cage clamp terminals 5-pole: L1, L2, L3, N, PE Clamping range: 1 x 0.75 to 4 mm^2 (solid / finely stranded) (2 free clamping units per pole available) **Special version:** Terminal block with cover 5-pole: L1, L2, L3, N, PE Clamping range: 2 x 0.75 to 6 mm^2 (solid); 2 x 0.75 to 4 mm^2 (finely and extra finely stranded) **Luminaire with DALI:** Cage clamp terminals 8-pole: L1, L2, L3, N, PE, D1, D2 Clamping range: 1 x 0.75 to 4 mm^2 (solid / finely stranded) (2 free clamping units per pole available)
Through wiring	**Standard luminaire** **with** Light fittings are equipped with internal through wiring. Inlet and outgoing leads can be connected to the opposite sides. Terminals: see tech. data Wiring cross section of the supply line connection: 2.5 mm^2 for max. 16 A **Optional** **without** On the connection side, there are 2 M25 x 1.5 bores for cable entries for inlet and outgoing wiring of the connection line (inlet and outgoing leads on one side).
Assembly	**Standard luminaire** Standard: 2 x M8 insert nuts in the enclosure Special: Mounting grooves in the enclosure for use of fastening and ceiling rails for variable luminaire mounting (variable mounting distances for luminaires L = 700 mm: 320 ... 480 mm; L = 1310 mm; 670 ... 930 mm)

E2

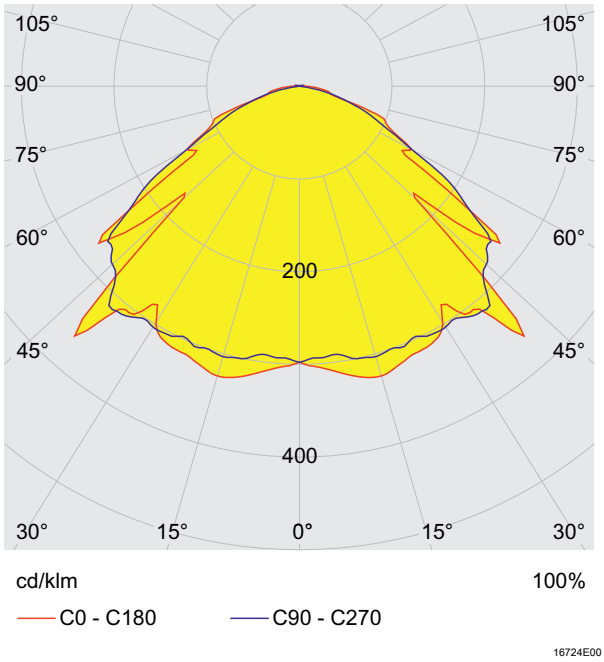
Light Distribution Curves



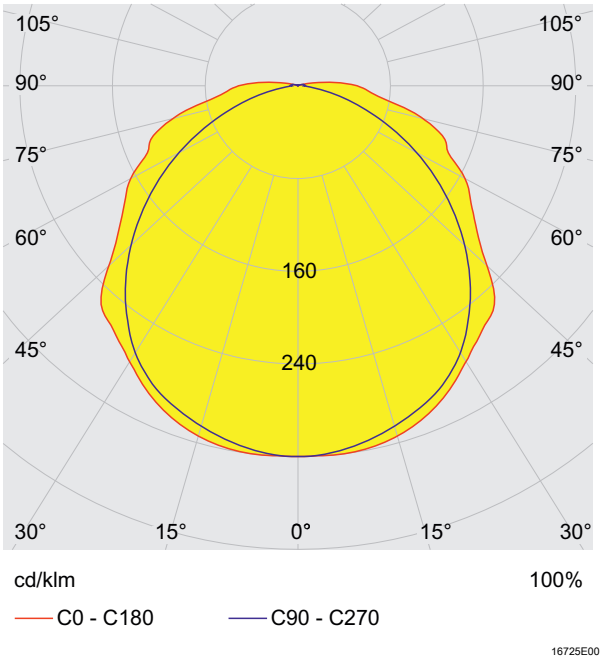
28 W without diffusor



28 W with diffusor

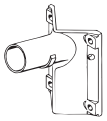
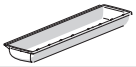
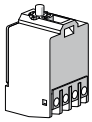
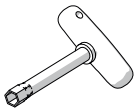
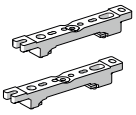
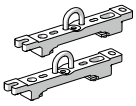
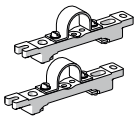
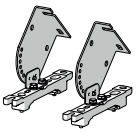


52 W without diffusor

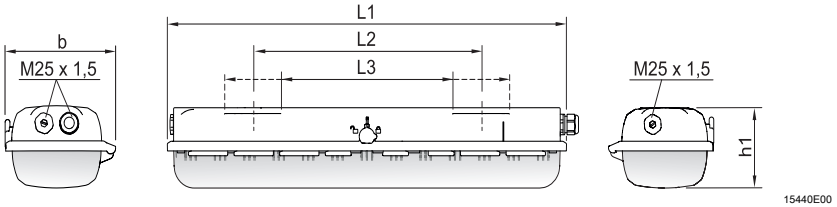


52 W with diffusor

Accessories and Spare Parts

Designation	Figure	Description	Art. no.	Weight kg
Bracket for wall mounting with tube	 05460E00	for side entry lamp; with tube, length 400 mm, ∅ 42 mm	**108947**	2.480
Translucent cover		for luminaire L=700	**222427**	0.639
		for luminaire L=1310	**222428**	1.149
Switch	 10809E00	Switching element 8080/1-3-L, 2 normally closed contacts	**132527**	0.026
Socket key	 15507E00	M8 / wrench size 13; to open/close the central locking	**222430**	0.210
Mounting rail	 15584E00	for a variable mounting distance 1 pair	**222826**	0.300
Mounting bracket	 15585E00	mounting clamp mounted on a mounting rail for a variable mounting distance 1 pair	**222456**	0.400
Pole mounting sleeve	16985E00	for the subsequent mounting on lights 18 W and 36 W, completely with assembly parts	**227512**	3.200
Pipe clamp	 15583E00	R $1^1/_2$“	**222459**	1.200
		R $1^1/_4$“	**222458**	0.900
		R 2“	**222460**	0.750
		with mounting rail for a variable mounting distance; Material: stainless steel 1 pair		
Ring bolt	05378E00	M8, direct mounting in insert nuts, 1 pair	**115736**	0.112
Ceiling and wall-mounting bracket	 15586E00	1 pair	**222827**	1.200
		mounted on a mounting rail for a variable mounting distance; Material: stainless steel Lamp can be swiveled in steps of 15°		

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations

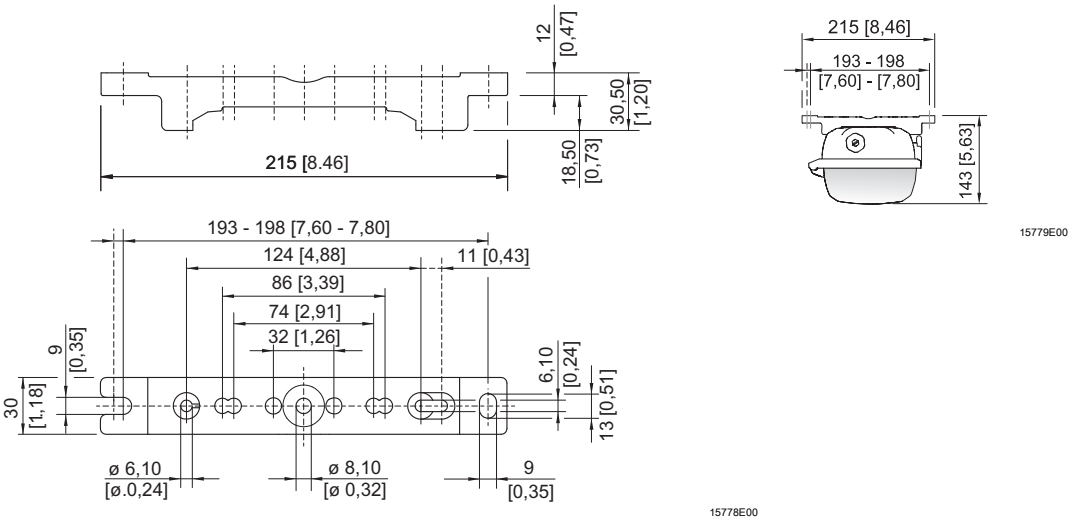


Dimensions	Luminaire	
	28 W	52 W
L1	700 [27.56]	1310 [51.57]
L2 1)	400 [15.75]	800 [31.50]
L3 2)	320 ... 480 [12.60 ... 18.90]	670 ... 930 [26.38 ... 36.61]
b	184 [7.24]	184 [7.24]
h1	125 [4.92]	125 [4.92]

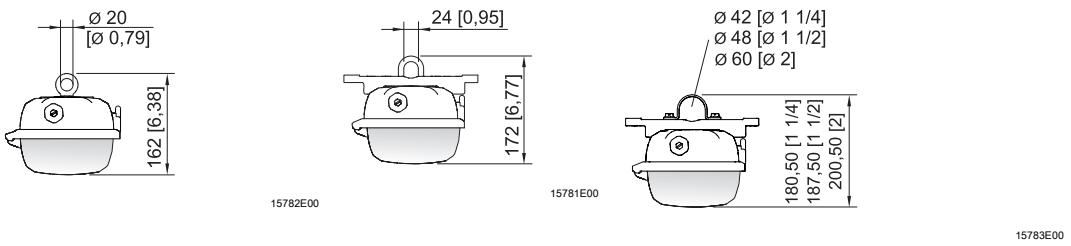
1) fixed mounting distance 2) variable mounting distance

EXLUX 6002 Standard luminaire

Dimensional drawings for assembly parts and accessories (all dimensions in mm [inches]) – Subject to alterations



Mounting rail

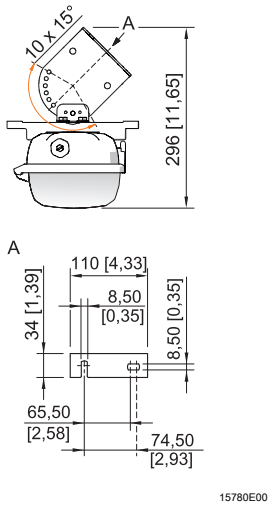


Ring bolt fitted in insert nut of the luminaire

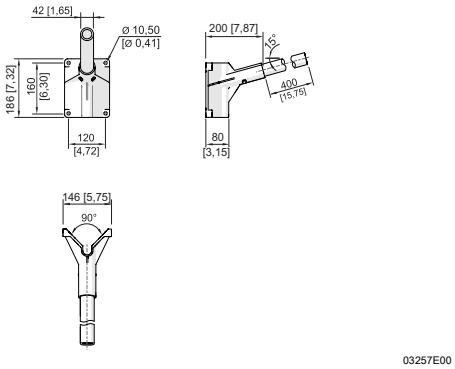
Mounting bracket fitted in mounting rail

Pipe clamp fitted in mounting rail

Dimensional drawings for assembly parts and accessories (all dimensions in mm [inches]) – Subject to alterations



Wall mounting bracket fitted in mounting rail



Bracket for wall mounting with pipe section

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.