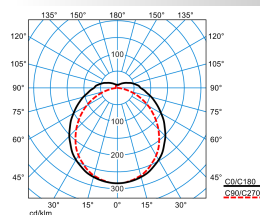


Product features and key data

Luminaire type	Multi-variable and modern tube luminaire with 75 mm profile diameter.
Mounting method	Surface-mounting Suspension
Luminaire optic	Opal cylindrical profile with photometrically effective prismatic structure as secondary optic.
Light distribution curve	Lambertian (L)
Light Engine	standard product
Colour temperature	3000 K
Rated luminous flux	12500 lm
Connected load	78,00 W
Luminous efficacy	160 lm/W
Rated service life	L80 (25 °C) = 70.000 h
Colour rendering index	80
Colour tolerance	3 SDCM
Photobiological class	Group 0 - no risk
Luminaire colour	RAL7016 Anthracite grey
Luminaire body	Luminaire profile made of polycarbonate (PC).
Electrical version	With electronic transformer, switchable.
Connection method	Plug-in terminal
Mains voltage	220 - 240 V
Mains frequency	50/60 Hz
Total harmonic distortion < %	14 %
IFS label	Yes
Protection rating	IP66
Protection rating on room side	IP66
Protection class	I
Impact resistance (IK)	IK10
Hot wire resistance	850 °C
Ambient temperature	-30 - 35 °C
Max. Luminaires B10	18
Max. Luminaires B16	30
Max. Luminaires C10	31
Max. Luminaires C16	51
Net length	1.849 mm
Net width	75 mm
Net height	75 mm
Outside diameter	75 mm
Weight	3,4 kg

light distribution curve

TugraHE 18 PL 125-830 ET PC C2

UGR I = 23,9
 UGR q = 25,7
 DIN 5040: B30
 UTE: 0.88 G + 0.12 T
 DLOR: 88 %
 ULOR: 12 %
 CEN Flux Code: 43 72 90 88 100 14 31 58 12

Available accessories

Material	Description
 ZAA/01 4601700	Ceiling canopy, round. Colour white.
 ZAA/03 4601800	Ceiling canopy, round. Colour silver-grey.
 ZAE/01 515 4691700	Ceiling canopy for connection of the 5-pole mains cable in case of ceiling outlets. Square, white.
 ZAE/03 515 4691800	Ceiling canopy for connection of the 5-pole mains cable in case of ceiling outlets. Square, silver-grey.
 ZAR/01 7002300	Ceiling canopy, square, white.
 ZAR/03 7002400	Ceiling canopy, square, silver grey.
 Tugra ZLV/315/18 8117200	Through-wiring, 3-core. For luminaires from seriesTugra 18... .
 Tugra ZLV/515/18 8117300	Through-wiring, 5-core. For luminaires from seriesTugra 18... .
 Tugra Ks 58 PC 01 Set Ersatz 8088800	End cap made of thermoplastically fused PC / TPE with high-quality, matt surface structure and surface finish according to VDI30. The end cap is equipped with 3 self-sealing membranes for cable cross-sections 7 mm - 13 mm as well as 3 pre-stamped feed points for PG cable glands (M20/M25) for protection rating-compliant infeed (IP66). Colour white.
 Tugra Ks 58 PC C2 Set Ersatz 8088900	End cap made of thermoplastically fused PC / TPE with high-quality, matt surface structure and surface finish according to VDI30. The end cap is equipped with 3 self-sealing membranes for cable cross-sections 7 mm - 13 mm as well as 3 pre-stamped feed points for PG cable glands (M20/M25) for protection rating-compliant infeed (IP66). Colour: anthracite.
 Tugra Ks 58 PC 05 Set Ersatz 8089000	End cap made of thermoplastically fused PC / TPE with high-quality, matt surface structure and surface finish according to VDI30. The end cap is equipped with 3 self-sealing membranes for cable cross-sections 7 mm - 13 mm as well as 3 pre-stamped feed points for PG cable glands (M20/M25) for protection rating-compliant infeed (IP66). Colour black.
 Tugra LME HFS ET 130 PC 01 8089600	Smart module for single luminaire applications. With integrated HF motion sensor. Module length 150 mm. Colour white.
 Tugra LME HFS ET 130 PC C2 8089700	Smart module for single luminaire applications. With integrated HF motion sensor. Module length 150 mm. Colour: anthracite.
 Tugra LME HFS ET 130 PC 05 8089800	Smart module for single luminaire applications. With integrated HF motion sensor. Module length 150 mm. Colour black.
 Tugra LME HFS ETDD 130 PC 01 8090400	Smart module for single luminaire applications. With integrated HF motion sensor. Module length 150 mm. Colour white.

	Tugra LME HFS ETDD 130 PC C2 8090500	Smart module for single luminaire applications. With integrated HF motion sensor. Module length 150 mm. Colour: anthracite.
	Tugra LME HFS ETDD 130 PC 05 8090600	Smart module for single luminaire applications. With integrated HF motion sensor. Module length 150 mm. Colour black.
	Tugra LME DMR 130 PC 01 8091600	Smart module for single luminaire applications. With LiveLink SwarmSens receiver equipment. Module length 150 mm.
	Tugra LME DMR 130 PC C2 8091700	Smart module for single luminaire applications. With LiveLink SwarmSens receiver equipment. Module length 150 mm.
	Tugra LME DMR 130 PC 05 8091800	Smart module for single luminaire applications. With LiveLink SwarmSens receiver equipment. Module length 150 mm.
	Tugra LME DMM 130 PC 01 8092400	Smart module for single luminaire applications. With HF sensor and LiveLink SwarmSens transmitter equipment. Module length 150 mm.
	Tugra LME DMM 130 PC C2 8092500	Smart module for single luminaire applications. With HF sensor and LiveLink SwarmSens transmitter equipment. Module length 150 mm.
	Tugra LME DMM 130 PC 05 8092600	Smart module for single luminaire applications. With HF sensor and LiveLink SwarmSens transmitter equipment. Module length 150 mm.
	Tugra LME Beacon 130 PC 01 8093200	Smart module beacon for single luminaire application and continuous line ends. Colour white.
	Tugra LME Beacon 130 PC C2 8093300	Smart module beacon for single luminaire application and continuous line ends. Colour: anthracite.
	Tugra LME Beacon 130 PC 05 8093400	Smart module beacon for single luminaire application and continuous line ends. Colour black.
	Tugra LME MP 260 01 8093900	Universal mounting plates made of sheet steel. powder-coated white, similar to RAL 9016
	Tugra LME MP 260 8094000	Universal mounting plates made of sheet steel.
	Tugra LMB 165 PC 01 8094200	PC coupler long. Surface coated white (similar to RAL 9016)
	Tugra LMB 165 PC C2 8094300	PC coupler long. Surface coated anthracite grey (similar to RAL 7016)
	Tugra LMB 165 PC 05 8094400	PC coupler long. Surface coated black (similar to RAL 9005)
	Tugra LMB HFS ET 165 PC 01 8095000	Smart module for continuous row applications. With integrated HF motion sensor. Module length 165 mm. Colour white.
	Tugra LMB HFS ET 165 PC C2 8095100	Smart module for continuous row applications. With integrated HF motion sensor. Module length 165 mm. Colour: anthracite.
	Tugra LMB HFS ET 165 PC 05 8095200	Smart module for continuous row applications. With integrated HF motion sensor. Module length 165 mm. Colour black.
	Tugra LMB HFS ETDD 165 PC 01 8095800	Smart module for continuous row applications. With integrated HF motion sensor. Module length 165 mm. Colour white.

	Tugra LMB HFS ETDD 165 PC C2 8095900	Smart module for continuous row applications. With integrated HF motion sensor. Module length 165 mm. Colour: anthracite.
	Tugra LMB HFS ETDD 165 PC 05 8096000	Smart module for continuous row applications. With integrated HF motion sensor. Module length 165 mm. Colour black.
	Tugra LMB DMR 165 PC 01 8096600	Smart module for continuous row applications With LiveLink SwarmSens receiver equipment. Module length 165 mm.
	Tugra LMB DMR 165 PC C2 8096700	Smart module for continuous row applications With LiveLink SwarmSens receiver equipment. Module length 165 mm.
	Tugra LMB DMR 165 PC 05 8096800	Smart module for continuous row applications With LiveLink SwarmSens receiver equipment. Module length 165 mm.
	Tugra LMB DMM 165 PC 01 8097400	Smart module for continuous row applications With HF sensor and LiveLink SwarmSens transmitter equipment. Module length 165 mm.
	Tugra LMB DMM 165 PC C2 8097500	Smart module for continuous row applications With HF sensor and LiveLink SwarmSens transmitter equipment. Module length 165 mm.
	Tugra LMB DMM 165 PC 05 8097600	Smart module for continuous row applications With HF sensor and LiveLink SwarmSens transmitter equipment. Module length 165 mm.
	Tugra LMB Beacon 165 PC 01 8098200	Smart module beacon for continuous line applications. Module length 165 mm.
	Tugra LMB Beacon 165 PC C2 8098300	Smart module beacon for continuous line applications. Colour: anthracite.
	Tugra LMB Beacon 165 PC 05 8098400	Smart module beacon for continuous line applications. Colour black.
	Tugra BLP 322 PL PC 8098900	Blank module for continuous line applications. Made of impact-resistant PC, opal. Length 361 mm, Width 75 mm, height 75 mm.
	Tugra BLP 603 PL PC 8099300	Blank module for continuous line applications. Made of impact-resistant PC, opal. Length 642 mm, Width 75 mm, height 75 mm.
	Tugra BLP 1165 PL PC 8100100	Blank module for continuous line applications. Made of impact-resistant PC, opal. Length 1204 mm, Width 75 mm, height 75 mm.
	Tugra BLP 1446 PL PC 8100500	Blank module for continuous line applications. Made of impact-resistant PC, opal. Length 1485 mm, Width 75 mm, height 75 mm.
	Tugra BLP 1727 PL PC 8100900	Blank module for continuous line applications. Made of impact-resistant PC, opal. Length 1766 mm, Width 75 mm, height 75 mm.
	Tugra BLP 2008 PL PC 8101300	Blank module for continuous line applications. Made of impact-resistant PC, opal. Length 2047 mm, Width 75 mm, height 75 mm.
	Tugra ZLK PC 01 8101800	PC coupler short. Colour white (similar to RAL 9016).
	Tugra ZLK PC C2 8101900	PC coupler short. Colour: anthracite.(similar to RAL 7016).
	Tugra ZLK PC 05 8102000	PC coupler short. Colour black (similar to RAL 9005).

	Tugra ZSDT/2000 8117800	Wire suspension for luminaires of series Tugra. With decorative ceiling connection. With metal clamp for use of triangle.
	Tugra ZSDD/2000 8117900	Wire suspension for luminaires of series Tugra. With decorative ceiling connection. With threaded sleeve for attachment to the mounting clip.
	Tugra ZSSD/2000 8118000	Wire suspension for luminaires of series Tugra. With loop for ceiling suspension. With threaded sleeve for attachment to the mounting clip.
	Tugra ZBRS 8118100	Tube clip for wall and ceiling mounting and also suitable for suspended mounting by means of separate accessories. Length 125 mm, Width 25 mm, height 90 mm.
	Tugra ZBWM 8118200	Pivotable mounting brackets for wall or ceiling mounting. Length 76 mm, Width 87 mm, height 108 mm.
	Tugra ZB V2A Ersatz 8118300	Standard stainless steel mounting clips (2 pieces, V2A) for wall and ceiling fixing with triangle for holding components for suspended mounting.
	Tugra ZB V4A 8118400	Stainless steel mounting clips (2 pieces, V4A) for wall and ceiling fixing with triangle for holding components for suspended mounting. Length 47,5 mm, Width 30 mm, height 23 mm.
	Tugra ZBATL 8118500	Disassembly protection for horizontal wall mounting. Length 60,5 mm, Width 40,4 mm, height 20 mm.
	Tugra ZSST/2000 8118900	Wire suspension for luminaires of series Tugra. With loop for ceiling suspension. With metal clamp for use of triangle.
	Tugra L-Connector Alu C2 9829400	L-connector for the mechanical connection of two luminaires in a continuous line application. Made of aluminium, with matt surface structure. Colour: anthracite.
	Tugra I-Connector Alu C2 9830200	I-connector for the mechanical connection of two luminaires in a continuous line application. Made of aluminium, with matt surface structure. Colour: anthracite.
	Tugra T-Connector Alu C2 9830300	T-connector for the mechanical connection of three luminaires in a continuous line application. Made of aluminium, with matt surface structure. Colour: anthracite.
	Tugra X-Connector Alu C2 9830500	X-connector for the mechanical connection of four luminaires in a continuous line application. Made of aluminium, with matt surface structure. Colour: anthracite.
	Tugra ZBRS PA 03 6000664100	Tube clip for wall and ceiling mounting. Made of polyamide. Resistant to UV radiation and ageing. impact resistance level in accordance with IEC 62262: IK10. Length 105 mm, Width 39 mm, height 116 mm.

Offer text

Multi-variable and modern tube luminaire with 75 mm profile diameter. Suitable for use in HACCP, IFS and/or BRC Global Standard Food certified companies. With limited surface temperature, suitable for use in fire hazardous areas according to DIN EN 60598-2-24. For wall and ceiling mounting. Standard stainless steel mounting clips (2 pieces, V2A) with triangle included in the scope of supply. Optional accessories enable further mounting concepts. As single luminaire or for continuous line use. The continuous mounting channel of the luminaire body enables very high flexibility in positioning the fixing points. The packaging is made of recyclable cardboard, plastic-free. Multiple packaging with 28 luminaires as well as project packaging with 108 luminaires per packaging unit further reduce the general consumption of resources in the overall process. Opal cylindrical profile with photometrically effective prismatic structure as secondary optic. With Lambertian light distribution. With mainly direct light distribution. With slight indirect component for surface illumination. Luminaire luminous flux and light color fixed. Luminaire luminous flux 12500 lm, connected load 78,00 W, Light colour warm white, correlated colour temperature (CCT) 3000 K, general colour rendering index (CRI) $R_a > 80$. Colour locus tolerance (initial MacAdam) ≤ 3 SDCM. Mean rated service life L80 ($t_a 25^\circ\text{C}$) = 70,000 h. The light source is replaceable according to the ecodesign requirements (VO (EU) 2019/2020). Flicker: Pst LM ≤ 1.0 at full load. Stroboscopic effect: SVM ≤ 0.4 at full load. Luminaire profile made of polycarbonate (PC). End cap colour anthracite (similar to RAL 7016). End cap made of thermoplastically fused PC / TPE with high-quality, matt surface structure and surface finish according to VDI30. The end cap is equipped with 3 self-sealing membranes for cable cross-sections 7 mm - 13 mm as well as 3 pre-stamped feed points for PG cable glands (M20/M25) for protection rating-compliant infed (IP66). The end cap is connected to the profile cylinder via a bayonet lock. Standard end caps included. Luminaire length 1849 mm, Luminaire height 75 mm, Ø Luminaire body 75 mm. The gear tray is fixed to the luminaire profile with transparent devices to avoid shadowing. Safety class (EN 61140): I, protection rating (DIN EN 60529): IP66, impact resistance level in accordance with IEC 62262: IK10, testing temperature of wire glow test in accordance with IEC 60695-2-11: 850 °C. Permissible ambient temperature (t_a): -30 °C to 35 °C. Weight: 3,4 kg. The connection is made by means of a plug-in terminal with mains forwarding equipment. The barrier free cable duct inside the luminaire profile facilitates the insertion of optional through-wiring or alternative uses, e.g. installing network cables. With electronic transformer, switchable. The control gear unit is replaceable in accordance with the ecodesign requirements (VO (EU) 2019/2020). The ENEC certification by an independent testing laboratory is in preparation. The luminaire complies with the fundamental requirements of applicable EU regulations and product safety legislation and bears the CE symbol. Luminaire available for 10 years, spare parts (LED module, control gear unit, optical system) for 15 years from date of invoice, subject to reasonable modifications in the interests of progress.

Disassembly instructions (PDF) for the product available at: <https://www.trilux.com/EcoDesign>

EPREL - European Product Registry for Energy Labelling

This product contains (a) light source(s) of energy efficiency class(es):

Energy Efficiency Class	Model identifier
D	85400972-00
B	LMC-A-88-430-830-B01-L56W2-C
B	85403528