

PRODUCT FAMILY DATASHEET

SubstiTUBE U-Shape

U-shaped LED tubes for electromagnetic control gears



AREAS OF APPLICATION

- Street and city lighting
- Industry

PRODUCT BENEFITS

- Quick, simple and safe replacement without rewiring
- Energy savings of up to 65 % (compared to T8 fluorescent lamp on CCG)
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Very high resistance to switching loads
- Also suitable for operation at low temperatures

PRODUCT FEATURES

- Double-capped LED alternative to classic T8 U-shaped fluorescent lamps in CCG luminaires
- Uniform illumination
- Mercury-free and RoHS compliant
- High luminous efficacy: up to 137 lm/W
- Lifetime: up to 50,000 h
- Type of protection: IP20



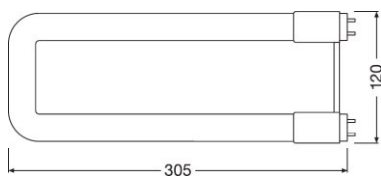
TECHNICAL DATA

Product description	Electrical data								
	Rated wattage	Nominal voltage	Operating frequency	Nominal wattage	Nominal current	Type of current	Max. lamp no. on circuit break. B10 A - CCG without compensation	Max. lamp no. on circuit break. B16 A - CCG with compensation	Max. lamp no. on circuit break. B16 A - CCG without compensation
ST8U-EM 8 W/4000K 300 mm	8.00 W	220...240 V	50...60 Hz	8.00 W	0.045 A	AC	170	270	270
ST8U-EM 20 W/4000K 600 mm	20.00 W	220...240 V	50...60 Hz	20.00 W	0.097 A	AC	75	120	120

Product description	Photometrical data							
	Max. lamp no. on circuit break. 10 A (B)	Max. lamp no. on circuit break. B10 A - CCG with compensation	Max. lamp no. on circuit break. 16 A (B)	Total harmonic distortion	Color temperature	Nominal luminous flux	Rated luminous flux	Lumen main.fact.at end of nom.life time
ST8U-EM 8 W/4000K 300 mm	170	170	270	12.5 %	4000 K	1100 lm	1100 lm	0.70
ST8U-EM 20 W/4000K 600 mm	75	75	120	13 %	4000 K	2750 lm	2750 lm	0.70

Product description	Light technical data					Dimensions & weight		Temperatures & operating conditions			
	Light color (designation)	Color temperature	Luminous flux	Color rendering index Ra	Rated beam angle (half peak value)	Warm-up time (60 %)	Starting time	Product weight	Overall length	Ambient temperature range	Maximum temperature at tc test point
ST8U-EM 8 W/4000K 300 mm	Cool White	4000 K	1100 lm	≥80	130.00 °	< 0.50 s	< 0.5 s	93.00 g	305.0 mm	-20...+50 °C	73 °C
ST8U-EM 20 W/4000K 600 mm	Cool White	4000 K	2750 lm	≥80	130.00 °	< 0.50 s	< 0.5 s	173.00 g	602.0 mm	-20...+50 °C	73 °C

Product description	Lifespan		Additional product data		Capabilities	Certificates & standards
	Nominal lamp life time	Number of switching cycles	Base (standard designation)	Mercury-free	Dimmable	Type of protection
ST8U-EM 8 W/4000K 300 mm	50000 h	200000	2G13	Yes	No	IP20
ST8U-EM 20 W/4000K 600 mm	50000 h	200000	2G13	Yes	No	IP20



ST8U-EM 8 W/4000K 300 mm



ST8U-EM 20 W/4000K 600 mm

EQUIPMENT / ACCESSORIES

- Suitable for operation with low-loss and conventional control gears

SAFETY ADVICE

Not suitable for operation with electronic control gear.

Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

APPLICATION ADVICE

For more detailed application information and graphics please see product datasheet.

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075284692	Shipping carton box 10	332 mm x 256 mm x 182 mm	1423.00 g	15.47 dm ³
4058075284715	Shipping carton box 10	616 mm x 252 mm x 180 mm	2587.00 g	27.94 dm ³

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

LEGAL ADVICE

When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.