

PRODUCT FAMILY DATASHEET

SubstiTUBE Advanced Ultra Output

LED tubes for electromagnetic control gears



AREAS OF APPLICATION

- General illumination within ambient temperatures from -20...+50 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores

PRODUCT BENEFITS

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 63 % (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
- High luminous flux for sophisticated lighting tasks

PRODUCT FEATURES

- LED alternative to classic T8 fluorescent lamps in CCG luminaires
- Rotatable end caps
- For especially uniform illumination
- Lifetime: up to 60,000 h
- Mercury-free and RoHS compliant



- Type of protection: IP20
- Tube made of glass

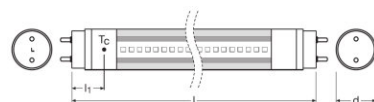
TECHNICAL DATA

Product description	Electrical data						Photometrical data					
	Nominal wattage	Rated wattage	Nominal voltage	Operating frequency	Nominal current	Type of current	Light color (designation)	Color temperature	Nominal luminous flux	Rated luminous flux	Color rendering index Ra	Lumen main.fact.at end of nom.life time
ST8AU-EM 15 W/840 1200 mm ¹⁾	15.00 W	15.00 W	220...240 V	50...60 Hz	0.069 A	AC	Cool White	4000 K	2400 lm	2400 lm	>80	0.70
ST8AU-EM 15 W/830 1200 mm ¹⁾	15.00 W	15.00 W	220...240 V	50...60 Hz	0.069 A	AC	Warm White	3000 K	2160 lm	2160 lm	>80	0.70
ST8AU-EM 15 W/865 1200 mm ¹⁾	15.00 W	15.00 W	220...240 V	50...60 Hz	0.069 A	AC	Cool Daylight	6500 K	2400 lm	2400 lm	>80	0.70
ST8AU-EM 22.5 W/830 1500 mm ¹⁾	22.50 W	22.50 W	220...240 V	50...60 Hz	0.103 A	AC	Warm White	3000 K	3240 lm	3240 lm	>80	0.70
ST8AU-EM 22.5 W/840 1500 mm ¹⁾	22.50 W	22.50 W	220...240 V	50...60 Hz	0.103 A	AC	Cool White	4000 K	3600 lm	3600 lm	>80	0.70
ST8AU-EM 22.5 W/865 1500 mm ¹⁾	22.50 W	22.50 W	220...240 V	50...60 Hz	0.103 A	AC	Cool Daylight	6500 K	3600 lm	3600 lm	>80	0.70

Product description	Light technical data			Dimensions & weight		Temperatures & operating conditions	Lifespan	
	Starting time	Rated beam angle (half peak value)	Warm-up time (60 %)	Product weight	Overall length	Ambient temperature range	Nominal lamp life time	Number of switching cycles
ST8AU-EM 15 W/840 1200 mm ¹⁾	< 0.5 s	210.00 °	< 0.50 s	198.00 g	1213 mm	-20...+50 °C	60000 h	200000
ST8AU-EM 15 W/830 1200 mm ¹⁾	< 0.5 s	210.00 °	< 0.50 s	198.00 g	1213 mm	-20...+50 °C	60000 h	200000
ST8AU-EM 15 W/865 1200 mm ¹⁾	< 0.5 s	210.00 °	< 0.50 s	198.00 g	1213 mm	-20...+50 °C	60000 h	200000
ST8AU-EM 22.5 W/830 1500 mm ¹⁾	< 0.5 s	210.00 °	< 0.50 s	246.00 g	1513 mm	-20...+50 °C	60000 h	200000
ST8AU-EM 22.5 W/840 1500 mm ¹⁾	< 0.5 s	210.00 °	< 0.50 s	246.00 g	1513 mm	-20...+50 °C	60000 h	200000
ST8AU-EM 22.5 W/865 1500 mm ¹⁾	< 0.5 s	210.00 °	< 0.50 s	246.00 g	1513 mm	-20...+50 °C	60000 h	200000

Product description	Additional product data		Capabilities	Certificates & standards	Country-specific categorizations	Logistical data
	Base (standard designation)	Mercury-free	Dimmable	Type of protection	ILCOS	Temperature range at storage
ST8AU-EM 15 W/840 1200 mm ¹⁾	G13	Yes	No	IP20	DR-15/840-G13-25.5/1213	-20...80 °C
ST8AU-EM 15 W/830 1200 mm ¹⁾	G13	Yes	No	IP20	DR-15/830-G13-25.5/1213	-20...80 °C
ST8AU-EM 15 W/865 1200 mm ¹⁾	G13	Yes	No	IP20	DR-15/865-G13-25.5/1213	-20...80 °C
ST8AU-EM 22.5 W/830 1500 mm ¹⁾	G13	Yes	No	IP20	DR-22.5/830-G13-25.5/1513	-20...80 °C
ST8AU-EM 22.5 W/840 1500 mm ¹⁾	G13	Yes	No	IP20	DR-22.5/840-G13-25.5/1513	-20...80 °C
ST8AU-EM 22.5 W/865 1500 mm ¹⁾	G13	Yes	No	IP20	DR-22.5/865-G13-25.5/1513	-20...80 °C

¹⁾ When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system/Not usable in luminaires with serial lamp connection, i.e. more than one tube at one magnetic ballast (tandem circuitry)



ST8AU-EM 15 W/840 1200 mm, ST8AU-EM 15 W/865 1200 mm, ST8AU-EM 22.5 W/840 1500 mm

ST8AU-EM 15 W/830 1200 mm, ST8AU-EM 22.5 W/830 1500 mm, ST8AU-EM 22.5 W/865 1500 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	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4058075818293	ST8AU-EM 15 W/840 1200 mm	Shipping carton box 10	1352 mm x 210 mm x 115 mm	32.65 dm ³	3009.00 g
4058075818279	ST8AU-EM 15 W/830 1200 mm	Shipping carton box 10	1352 mm x 210 mm x 115 mm	32.65 dm ³	3170.00 g
4058075818316	ST8AU-EM 15 W/865 1200 mm	Shipping carton box 10	1352 mm x 210 mm x 115 mm	32.65 dm ³	3200.00 g
4058075818330	ST8AU-EM 22.5 W/830 1500 mm	Shipping carton box 10	1652 mm x 210 mm x 115 mm	39.90 dm ³	3850.00 g
4058075818354	ST8AU-EM 22.5 W/840 1500 mm	Shipping carton box 10	1652 mm x 210 mm x 115 mm	39.90 dm ³	3590.00 g
4058075818378	ST8AU-EM 22.5 W/865 1500 mm	Shipping carton box 10	1652 mm x 210 mm x 115 mm	39.90 dm ³	3830.00 g

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.