

PRODUCT DATASHEET

ST8AU-EM 16 W/865 1200 mm

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

- 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

Electrical data

Nominal wattage	16.00 W
Rated wattage	16.00 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal current	0.074 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	85 / 20 / 90 ¹⁾
Max. lamp no. on circuit break. 16 A (B)	135 / 30 / 140 ¹⁾
Power factor λ	> 0.90

¹⁾ Operated with conventional control gear / Operated with conventional control gear incl. compensation capacitor / Operated with direct mains connection (220...240 V)

Photometrical data

Light color (designation)	Cool Daylight
Rated color temperature	6500 K
Nominal luminous flux	2400 lm
Rated luminous flux	2400 lm
Rated lamp efficacy (standard condition)	150 lm/W
Color rendering index Ra	>80
Lumen main.fact.at end of nom.life time	0.70
Standard deviation of color matching	≤4 sdc _m

Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	160.00 °

Dimensions & weight



Length with base excl. base pins/connection	1198.00 mm
Tube diameter	27.3 mm
Base diameter	27.3 mm
Product weight	171.00 g
Overall length	1213 mm

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	75 °C ¹⁾

¹⁾ Maximum at the Tc-point

Lifespan

Lifespan	50000 h
Nominal lamp life time	50000 h
Rated lamp life time	50000 h
Number of switching cycles	200000

Additional product data

Base (standard designation)	G13
Mercury-free	Yes
Product remark	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)

Capabilities

Dimmable	No
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Certificates & standards

Type of protection	IP20
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Standards	CE; VDE
Energy efficiency class	A++
Energy consumption	16 kWh/1000h

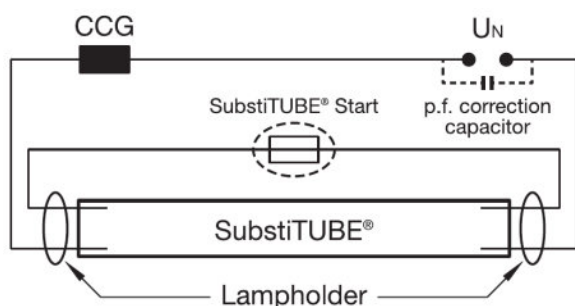
Country specific categorizations

ILCOS	DR-16/865-G13-27.5/1200
Order reference	ST8AU-1.2M 16W/

Logistical data

Temperature range at storage	-20...80 °C
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Wiring Diagram



Wiring diagram

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.

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899956445	ST8AU-EM 16 W/865 1200 mm	Shipping carton box 25	1335 mm x 166 mm x 182 mm	40.33 dm ³	6300.00 g
4058075818316	ST8AU-EM 16 W/865 1200 mm	Shipping carton box 10	1352 mm x 210 mm x 115 mm	32.65 dm ³	3200.00 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.