

SubstiTUBE[®] T8 Connected Advanced UO 0.6m/1.2m/ 1.5m EM Generation 2

Datasheet



Technical Features

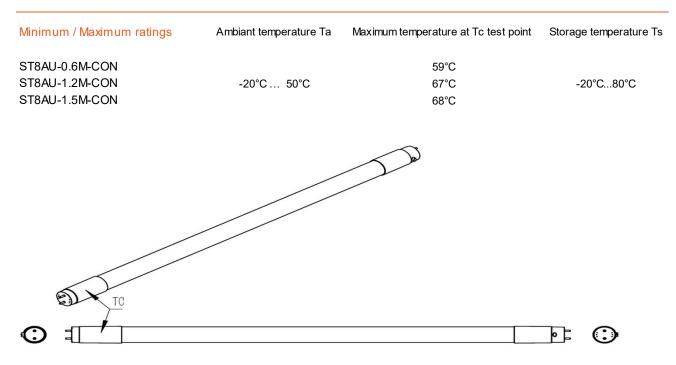
- T8 LED tube made of glass with G13 socket
- Weight: 0.6m: 117g 1.2m: 214g 1.5m: 252g
- No bending thanks to glass technology
- Direct retrofit for CCG / Mains*
 Power factor > 0.9
- Up to 50.000 h lifetime (L70/B50)
- Switching cycles: 200.000

- Suitable to Electro Magnetic Ballast (EM) / Mains
- No bending thanks to glass technology
- Lower maintenance cost thanks to longer lifetime and lower energy consumption
- · Glass tube with coated protection sheet.
- · Applicable in car parks, industry area
 - Works with LEDVANCE Connected Sensor. Wireless connection. Zigbee 3.0
 - Connected Sensor ST8 LB Gen2: 4058075232969
 - Connected Sensor ST8 HB Gen2: 4058075232983

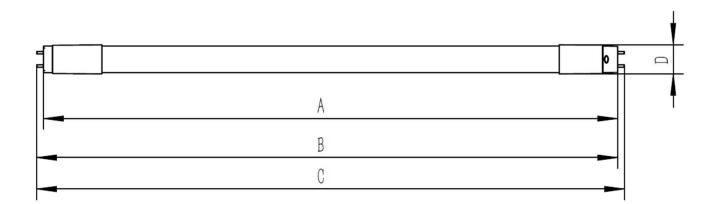
- Color Rendering Index (CRI): 83
- Overpower and short circuit protected
- RoHS-conformity, no mercury
- Dimmable only with LEDVANCE Connected Sensor
- Energy Efficiency Class: A++
- Beam angle: >160°

Technical operating data	Color	Colortemp. [K]	Lum. Flux [lm]	Voltage [V] / Frequency [Hz] / Input Current [mA]	Power [W]	Energy Consumption kWh/1000h
ST8AU-0-6m7.5W-840-CON	Cool White	4000	1100			
ST8AU-0-6m7.5W-865-CON	Cool Daylight	6500	1100	35 mA(CCG/ M ains)	7.5	8 kWh
ST8AU-1.2m-16W-840-CON	Cool White	4000	2400			
ST8AU-1.2m-16W-865-CON	Cool Daylight	6500	2400	73 mA(CCG/ Mains)	16	16 kWh
ST8AU-1.5m-24W-840-CON	Cool White	4000	3600			
ST8AU-1.5m-24W-865-CON	Cool Daylight	6500	3600	106 mA (CCG/Mains)	24	24 kWh





TC measurement point is where OSRAM lamp logo is positioned



Drawings	A[mm]	B [mm]	C [mm]	D [mm]
ST8AU-0.6M-CON	588.7	595.7	602.7	27.8
ST8AU-1.2M-CON	1198.3	1205.5	1212.3	27.8
ST8AU-1.5M-CON	1499	1506	1513	27.8



Safety and Application notes

The SubstiTUBE® Connected tube must not be damaged or operated in a damaged condition.

• When operating with CCG,



Lamp to be used in dry conditions or in a luminaire that provides protection



Lamp not suitable for emergency operation



Lamp not suitable for high frequency operation



LED replacement starter



Lamp suitable for 50 Hz or 60 Hz operation



Dimming works with LEDVANCE Connected Sensor

- The SubstiTUBE® emits light only with a limited angle (>160°), not like a fluorescent tube with 360° output.
- Due to the characteristic light distribution of the SubstiTUBE®, the resulting luminaire light characteristic is likely to change.
- It is not guaranteed that e.g. standards for lighting at working places will be complied to after replacement. A photometric check of the installation is recommended.
- SubstiTUBE[®] products differ in their diameters and geometries from fluorescent lamps. Their use in open batten luminaires with gaskets is possible if no excessive force is expended during the fixing. Obtaining the necessary IP protection in open batten luminaires with gaskets cannot be ensured.
- SubstiTUBE[®] may also be driven directly on line voltage 220-240V. In order to grant a safe operation mode please refer to the installation instructions for further information.
- · Photobiological Safety of lamps and lamp systems according to IEC 62471. Risk Group: Exempt

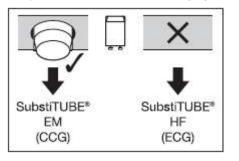


The SubstiTUBE[®] is protected according to IP20. Applications with external risk of moisture and dust can be served with an adequately protected luminaire.

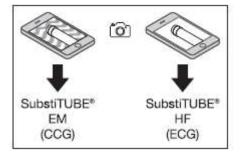


Installation instructions for SubstiTUBE® T8 ADVANCED UO CONNECTED EM

Starter-Test: See whether the luminaire has a starter. If it does not have a starter, you need an operation on an Electronic Ballast (HF).

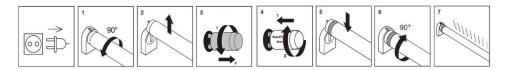


Camera-Test: Examine with a smart phone camera. If the light does not flicker you need an operation on an Electronic Ballast (HF).



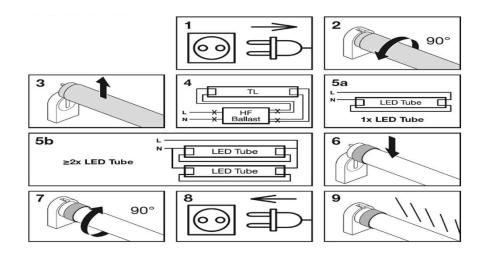
Installation Instructions for CCG (EM)

- Make sure that the supply voltage is disconnected.
- Turn the conventional lamp 90° and take it out of the socket carefully
- Remove conventional starter from the luminaire
- · Insert and latch the LEDStarter into socket.
- Insert SubstiTUBE® Connected into socket and locate into position by turning 90°.
- · Check light emission direction.



Installation Instructions for Mains (230V)

- · Make sure that the supply voltage is disconnected
- Turn the conventional lamp 90° and take it out of the socket carefully
- Rewiring according to installation guideline, cut and remove ballast.
- Insert SubstiTUBE[®] into socket and locate into position by turning 90°
- Connect SubstiTUBE® to supply voltage
- · Check light emission direction.
- Please do not insert fluorescent lamp into socket after rewiring.





Maximum amount of SubstiTUBE® T8 Advanced UO CONNECTED EM on 1 circuit breaker

CCG with		18 pcs
CCG with	compensation compensation operation 230v	320 pcs 30 pcs 320 pcs
CCG with	compensation compensation operation 230v	95pcs 16pcs 95pcs
CCG with	compensation compensation operation 230v	155pcs 27pcs 155pcs
CCG with	compensation compensation operation 230v	65 pcs 14 pcs 65 pcs
CCG with	compensation compensation operation 230v	105 pcs 24 pcs 105 pcs

Ordering guide	Light color	EAN*	S-Unit**
ST8AU-0.6M-7.5W-840-CON	Cool White / 4000 K	4058075187337	10 x 1
ST8AU-0.6M-7.5W-865-CON	Cool Daylight / 6500 K	4058075187351	
ST8AU-1.2m-16W-840-CON	Cool White / 4000 K	4058075187375	10 x 1
ST8AU-1.2m-16W-865-CON	Cool Daylight / 6500 K	4058075187399	
ST8AU-1.5m-24W-840-CON	Cool White / 4000 K	4058075187634	10 x 1
ST8AU-1.5m-24W-865-CON	Cool Daylight / 6500 K	4058075187658	

* EAN: Ordering number per single module

** S-Unit: Lamps per shipping unit

Sales and Technical Support

Sales and technical support is given by the local LEDVANCE subsidiaries. On our worldwide homepage all LEDVANCE subsidiaries are listed with complete address and phone numbers.

Further Information

Downloads: Eulumdat / IES files, CE declaration www.ledvance.com/Substitube