

PRODUCT FAMILY DATASHEET

SubstiTUBE Value UN

LED tubes for electronic and electromagnetic control gears



AREAS OF APPLICATION

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Warehouses

PRODUCT BENEFITS

- Also suitable for operation at low temperatures
- Easy installation
- No bending thanks to glass technology

PRODUCT FEATURES

- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lifetime: up to 30,000 h
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage



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 with compensation	Max. lamp no. on circuit break. B16 A - CCG without compensation	Max. lamp no. on circuit break. B16 A - CCG with compensation
ST8V-UN 8 W/3000K 600 mm	8.00 W	220...240 V	50...60 Hz ¹⁾	8.00 W	0.045 A ²⁾	AC	37	166	62
ST8V-UN 8 W/4000K 600 mm	8.00 W	220...240 V	50...60 Hz ¹⁾	8.00 W	0.045 A ²⁾	AC	37	166	62
ST8V-UN 8 W/6500K 600 mm	8.00 W	220...240 V	50...60 Hz ¹⁾	8.00 W	0.045 A ²⁾	AC	37	166	62
ST8V-UN 16 W/3000K 1200 mm	16.00 W	220...240 V	50...60 Hz ¹⁾	16.00 W	0.076 A ³⁾	AC	37	103	62
ST8V-UN 16 W/4000K 1200 mm	16.00 W	220...240 V	50...60 Hz ¹⁾	16.00 W	0.076 A ³⁾	AC	37	103	62
ST8V-UN 16 W/6500K 1200 mm	16.00 W	220...240 V	50...60 Hz ¹⁾	16.00 W	0.076 A ³⁾	AC	37	103	62
ST8V-UN 19 W/3000K 1500 mm	19.00 W	220...240 V	50...60 Hz ¹⁾	19.00 W	0.09 A ⁴⁾	AC	37	69	62
ST8V-UN 19 W/4000K 1500 mm	19.00 W	220...240 V	50...60 Hz ¹⁾	19.00 W	0.09 A ⁴⁾	AC	37	69	62
ST8V-UN 19 W/6500K 1500 mm	19.00 W	220...240 V	50...60 Hz ¹⁾	19.00 W	0.09 A ⁴⁾	AC	37	69	62

Product description	Photometrical data							
	Max. lamp no. on circuit break. B10 A - CCG without compensation	Max. lamp no. on circuit break. 10 A (B)	Max. lamp no. on circuit break. 16 A (B)	Color temperature	Nominal luminous flux	Rated luminous flux	Lumen main.fact.at end of nom.life time	Light color (designation)
ST8V-UN 8 W/3000K 600 mm	113	113	166	3000 K	720 lm	720 lm	0.70	Warm White
ST8V-UN 8 W/4000K 600 mm	113	113	166	4000 K	800 lm	800 lm	0.70	Cool White
ST8V-UN 8 W/6500K 600 mm	113	113	166	6500 K	800 lm	800 lm	0.70	Cool Daylight
ST8V-UN 16 W/3000K 1200 mm	68	68	103	3000 K	1550 lm	1550 lm	0.70	Warm White
ST8V-UN 16 W/4000K 1200 mm	68	68	103	4000 K	1700 lm	1700 lm	0.70	Cool White
ST8V-UN 16 W/6500K 1200 mm	68	68	103	6500 K	1700 lm	1700 lm	0.70	Cool Daylight
ST8V-UN 19 W/3000K 1500 mm	43	43	69	3000 K	1800 lm	1800 lm	0.70	Warm White
ST8V-UN 19 W/4000K 1500 mm	43	43	69	4000 K	2000 lm	2000 lm	0.70	Cool White
ST8V-UN 19 W/6500K 1500 mm	43	43	69	6500 K	2000 lm	2000 lm	0.70	Cool Daylight

Product description	Color temperature	Luminous flux	Color rendering index Ra	Light technical data			Dimensions & weight				Temperatures & operating conditions
				Rated beam angle (half peak value)	Warm-up time (60 %)	Starting time	Tube diameter	Base diameter	Product weight	Overall length	Ambient temperature range
ST8V-UN 8 W/3000K 600 mm	3000 K	720 lm	≥80	160.00 °	< 0.50 s	< 0.5 s	26.7 mm	28.0 mm	133.00 g	600.0 mm	-20...+45 °C
ST8V-UN 8 W/4000K 600 mm	4000 K	800 lm	≥80	160.00 °	< 0.50 s	< 0.5 s	26.7 mm	28.0 mm	133.00 g	600.0 mm	-20...+45 °C
ST8V-UN 8 W/6500K 600 mm	6500 K	800 lm	≥80	160.00 °	< 0.50 s	< 0.5 s	26.7 mm	28.0 mm	133.00 g	600.0 mm	-20...+45 °C
ST8V-UN 16 W/3000K 1200 mm	3000 K	1550 lm	≥80	160.00 °	< 0.50 s	< 0.5 s	26.7 mm	28.0 mm	230.00 g	1200 mm	-20...+45 °C
ST8V-UN 16 W/4000K 1200 mm	4000 K	1700 lm	≥80	160.00 °	< 0.50 s	< 0.5 s	26.7 mm	28.0 mm	230.00 g	1200 mm	-20...+45 °C
ST8V-UN 16 W/6500K 1200 mm	6500 K	1700 lm	≥80	160.00 °	< 0.50 s	< 0.5 s	26.7 mm	28.0 mm	230.00 g	1200 mm	-20...+45 °C
ST8V-UN 19 W/3000K 1500 mm	3000 K	1800 lm	≥80	160.00 °	< 0.50 s	< 0.5 s	26.7 mm	28.0 mm	284.00 g	1500 mm	-20...+45 °C
ST8V-UN 19 W/4000K 1500 mm	4000 K	2000 lm	≥80	160.00 °	< 0.50 s	< 0.5 s	26.7 mm	28.0 mm	284.00 g	1500 mm	-20...+45 °C
ST8V-UN 19 W/6500K 1500 mm	6500 K	2000 lm	≥80	160.00 °	< 0.50 s	< 0.5 s	26.7 mm	28.0 mm	284.00 g	1500 mm	-20...+45 °C

Product description	Maximum temperature at tc test point	Lifespan		Additional product data		Capabilities	Certificates & standards	Logistical data
		Nominal lamp life time	Number of switching cycles	Base (standard designation)	Mercury-free	Dimmable	Type of protection	Temperature range at storage
ST8V-UN 8 W/3000K 600 mm	53 °C	30000 h	100000	G13	Yes	No	IP20	-20...+80 °C
ST8V-UN 8 W/4000K 600 mm	53 °C	30000 h	100000	G13	Yes	No	IP20	-20...+80 °C
ST8V-UN 8 W/6500K 600 mm	53 °C	30000 h	100000	G13	Yes	No	IP20	-20...+80 °C

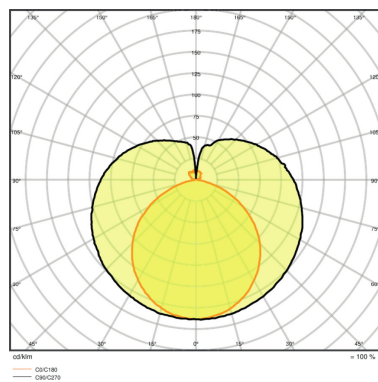
Product description		Lifespan		Additional product data		Capabilities	Certificates & standards	Logistical data
		Maximum temperature at tc test point	Nominal lamp life time	Number of switching cycles	Base (standard designation)	Mercury-free	Dimmable	Type of protection
ST8V-UN 16 W/3000K 1200 mm	53 °C	30000 h	100000	G13	Yes	No	IP20	-20...+80 °C
ST8V-UN 16 W/4000K 1200 mm	53 °C	30000 h	100000	G13	Yes	No	IP20	-20...+80 °C
ST8V-UN 16 W/6500K 1200 mm	53 °C	30000 h	100000	G13	Yes	No	IP20	-20...+80 °C
ST8V-UN 19 W/3000K 1500 mm	62 °C	30000 h	100000	G13	Yes	No	IP20	-20...+80 °C
ST8V-UN 19 W/4000K 1500 mm	62 °C	30000 h	100000	G13	Yes	No	IP20	-20...+80 °C
ST8V-UN 19 W/6500K 1500 mm	62 °C	30000 h	100000	G13	Yes	No	IP20	-20...+80 °C

¹⁾ 20-75KHz for ECG (HF)

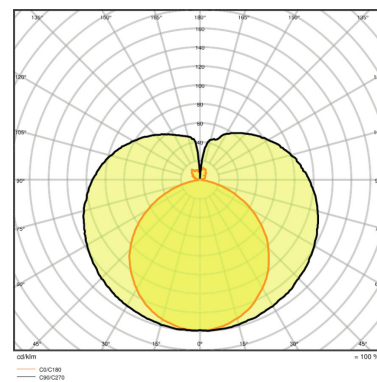
²⁾ 378 mA for ECG (HF)

³⁾ 390 mA for ECG (HF)

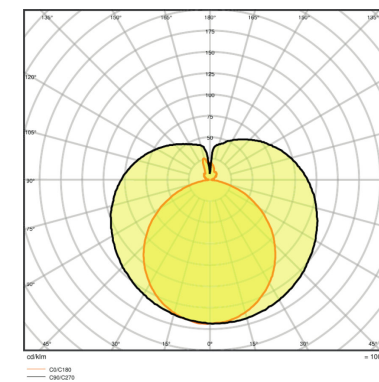
⁴⁾ 475 mA for ECG (HF)



ST8V-UN 8 W/3000K 600 mm

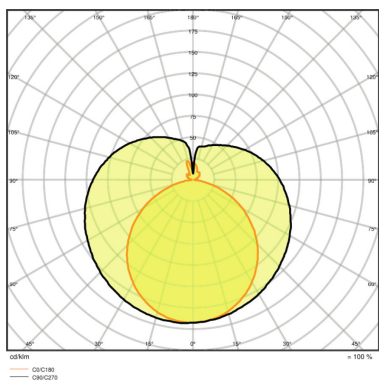


ST8V-UN 8 W/4000K 600 mm

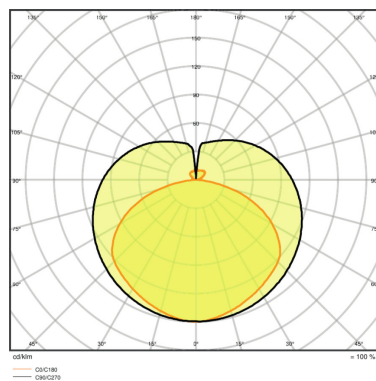


ST8V-UN 16 W/3000K 1200 mm

ST8V-UN 8 W/3000K 600 mm, ST8V-UN 8 W/4000K 600 mm, ST8V-UN 8 W/6500K 600 mm, ST8V-UN 16 W/3000K 1200 mm, ST8V-UN 16 W/4000K 1200 mm, ST8V-UN 16 W/6500K 1200 mm, ST8V-UN 19 W/3000K 1500 mm, ST8V-UN 19 W/4000K 1500 mm, ST8V-UN 19 W/6500K 1500 mm



ST8V-UN 16 W/4000K 1200 mm



ST8V-UN 19 W/4000K 1500 mm

SAFETY ADVICE

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
4058075137417	Shipping carton box 10	742 mm x 210 mm x 115 mm	2102.00 g	17.92 dm ³
4058075137431	Shipping carton box 10	742 mm x 210 mm x 115 mm	2100.00 g	17.92 dm ³
4058075137455	Shipping carton box 10	742 mm x 210 mm x 115 mm	1942.00 g	17.92 dm ³

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075137479	Shipping carton box 10	1352 mm x 210 mm x 115 mm	3279.00 g	32.65 dm ³
4058075137493	Shipping carton box 10	1352 mm x 210 mm x 115 mm	3279.00 g	32.65 dm ³
4058075137516	Shipping carton box 10	1352 mm x 210 mm x 115 mm	3279.00 g	32.65 dm ³
4058075137530	Shipping carton box 10	1652 mm x 210 mm x 115 mm	4020.00 g	39.90 dm ³
4058075137554	Shipping carton box 10	1652 mm x 210 mm x 115 mm	4020.00 g	39.90 dm ³
4058075137578	Shipping carton box 10	1652 mm x 210 mm x 115 mm	4020.00 g	39.90 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.

REFERENCES / LINKS

For current information see

▶ www.ledvance.com/substitute

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.