

## ST8-HB5 24 W/840 1500 mm

SubstiTUBE Basic | Standard LED tubes for electromagnetic control gears



### Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Cooling and storage rooms
- Corridors, stairways, parking garages
- Ideal for simple lighting tasks

### Product benefits

- Quick, simple and safe replacement without rewiring
- Low maintenance costs thanks to long lifetime
- 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

- LED alternative to classic T8 fluorescent lamps in CCG luminaires
- Uniform illumination
- Wide beam angle: 160° (1.2 m), 150° (1.5 m)
- Integrated ECG with high power factor
- Mercury-free and RoHS compliant
- Type of protection: IP20



# Product datasheet

## Technical data

### Electrical data

Rated luminous flux	2400 lm
Nominal wattage	24.00 W
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Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal current	0.109 A
Type of current	AC
Number of switching cycles	200000
Power factor $\lambda$	> 0.90

### Photometrical data

Light color (designation)	Cool White
Color temperature	4000 K
Nominal luminous flux	2400 lm
Color rendering index Ra	>80

### Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	150.00 °

### Dimensions & weight



Overall length	1513 mm
Tube diameter	27.5 mm
Base diameter	27.5 mm
Product weight	400.00 g

## Product datasheet

Maximum diameter	28.0 mm
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### Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Temperature range in operation	-20...75 °C

### Lifespan

Nominal lamp life time	40000 h
Rated lamp life time	40000 h
Lumen main.fact.at end of nom.life time	0.70

### Additional product data

Base (standard designation)	G13
Mercury-free	Yes

### Capabilities

Dimmable	No
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### Certificates & standards

Standards	CE
Energy efficiency class	A+
Energy consumption	29 kWh/1000h

### Country specific categorizations

ILCOS	DR-23/840-G13-26/1500
Order reference	ST8-HB5-240 24W

### Logistical data

Temperature range at storage	-20...80 °C
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#### Equipment / Accessories

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

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#### Safety advice

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

Not suitable for operation with electronic control gear.

## Product datasheet

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### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899922549	ST8-HB5 24 W/840 1500 mm	Shipping carton box 25	1637 mm x 191 mm x 207 mm	64.72 dm <sup>3</sup>	12720.00 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.

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### References / Links

For current information see

▶ [www.osram.com/substitute](http://www.osram.com/substitute)

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### 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.

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### Disclaimer

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