

## ST8-HB4 21 W/830 1200 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        | 1900 lm     |
| Nominal wattage            | 21.00 W     |
| Rated wattage              | 21.00 W     |
| Nominal voltage            | 220...240 V |
| Operating frequency        | 50...60 Hz  |
| Nominal current            | 0.094 A     |
| Type of current            | AC          |
| Number of switching cycles | 200000      |
| Power factor $\lambda$     | > 0.90      |

### Photometrical data

|                           |            |
|---------------------------|------------|
| Light color (designation) | Warm White |
| Color temperature         | 3000 K     |
| Nominal luminous flux     | 1900 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 | 1213 mm  |
| Tube diameter  | 27.5 mm  |
| Base diameter  | 27.5 mm  |
| Product weight | 260.00 g |

## Product datasheet

|                  |         |
|------------------|---------|
| Maximum diameter | 28.0 mm |
|------------------|---------|

### 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 |
|----------|----|

### Certificates & standards

|                         |              |
|-------------------------|--------------|
| Standards               | CE           |
| Energy efficiency class | A            |
| Energy consumption      | 26 kWh/1000h |

### Country specific categorizations

|                 |                        |
|-----------------|------------------------|
| ILCOS           | DR-21/830-G13-27.5/590 |
| Order reference | ST8-HB4-190 21W        |

### 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 |
|---------------|--------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899922501 | ST8-HB4 21 W/830 1200 mm | Shipping carton box 25       | 1335 mm x 191 mm x 207 mm            | 52.78 dm <sup>3</sup> | 9623.00 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.