

# PRODUCT DATASHEET

## HB V 120W 840 90DEG IP66

HIGH BAY V | HIGH BAY luminaires with up to 185lm/w efficiency and long lifespan



VALUE  
CLASS

### Areas of application

- Replacement for high bay luminaires with mercury vapor or metal halide lamps
- Warehouses, logistic halls
- Industry
- High ceiling (e.g. in shopping malls, airports, commercial buildings, lobbies)

### Product benefits

- Low flicker light thanks to special electronic control gear
- Energy savings thanks to system efficacy up to 185lm/W
- Low product weight to optimize installation
- Modern and robust design
- 5 years guarantee

### Product features

- Lifetime (L70/B50): up to 100,000 h (at 35 °C)
- Operating temperature up to 50 degree Celsius
- Different luminous flux and beam angle for mounting heights of ~ 6 m to 18 m
- Available in 4000K, 5700K and 6500K
- Type of protection: IP66
- Impact resistance: IK10

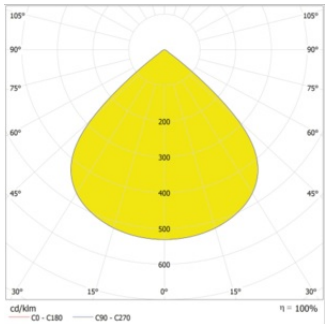
TECHNICAL DATA

Electrical data

|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 120.00 W              |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 590.000 mA            |
| Inrush current                                              | 40 A                  |
| Inrush current time T <sub>h50</sub>                        | 600 µs                |
| Max. number of luminaires per miniature circuit breaker B16 | 5                     |
| Max. number of luminaires per miniature circuit breaker C10 | 3                     |
| Max. number of luminaires per miniature circuit breaker C16 | 6                     |
| Power factor λ                                              | ≥ 0.95                |
| Total harmonic distortion                                   | < 20 %                |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |

Photometrical data

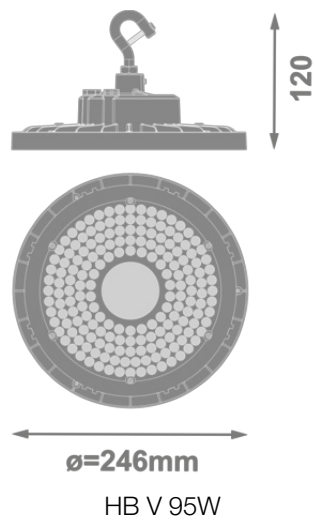
|                                              |            |
|----------------------------------------------|------------|
| Luminous flux                                | 21600 lm   |
| Luminous efficacy                            | 180 lm/W   |
| Color temperature                            | 4000 K     |
| Light color (designation)                    | Cool white |
| Color rendering index Ra                     | 80         |
| Standard deviation of color matching         | 5 sdcm     |
| Photobiological safety group acc. to EN62778 | RG1        |
| Beam angle                                   | 90 °       |



HB V 90DEG

Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 246.00 mm |
| Height         | 120.00 mm |
| Product weight | 1100.00 g |



Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | Black              |
| Housing color                              | Black              |
| Body material                              | Aluminum           |
| Cover material                             | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C             |
| Mercury content                            | 0.0 mg             |

Application & Mounting

|                                        |                   |
|----------------------------------------|-------------------|
| Ambient temperature range              | -20...+50 °C      |
| Temperature range at storage           | -40...+70 °C      |
| Type of connection                     | Cable, 3-pole     |
| Type of protection                     | IP66              |
| Protection class IK (shock resistance) | IK10              |
| Dimmable                               | No                |
| Mounting type                          | Suspended/Surface |
| Application environment                | Indoor            |
| With light source                      | Yes               |

Lifespan

|                           |                        |
|---------------------------|------------------------|
| Lifespan L70/B50 at 25 °C | 100000 h <sup>1)</sup> |
|---------------------------|------------------------|

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L80/B10 at 25 °C  | 96000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 96000 h               |
| Lifespan L90/B10 at 25 °C  | 49000 h               |
| Number of switching cycles | 100000                |

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

### Control gear

|                             |        |
|-----------------------------|--------|
| ECG - Output ripple current | < 10 % |
|-----------------------------|--------|

### Certificates & Standards

|                                                      |                                |
|------------------------------------------------------|--------------------------------|
| Standards                                            | CE / ROHS / REACH / ENEC / ERP |
| Luminaire with limited surface temperature, "D sign" | Yes                            |
| Ball shot safe                                       | No                             |
| Replaceable light source (EPREL)                     | Not replaceable                |

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                      |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
|  | User instruction / safety instructions | HB V IP66                          |
|  | Legal information                      | HB V IP66                          |
|  | Legal information                      | HB V IP66                          |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|  | Declarations of conformity             | HB V IP66                          |

| Photometric and lighting design files                                               |                                     | Document name |
|-------------------------------------------------------------------------------------|-------------------------------------|---------------|
|  | Light distribution curve type polar | HB V 90DEG    |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854326455 | Shipping box<br>1            | 300 mm x 300 mm x 125 mm             | 1756.00 g    | 11.25 dm <sup>3</sup> |

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.

**DISCLAIMER**

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