

# PRODUCT DATASHEET

## HB COMP V 83W 840 110DEG IP65

HIGH BAY COMPACT GEN 1 | High-bay luminaires up to 120 lm/W



VALUE  
CLASS

### Areas of application

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

### Product benefits

- Modern exclusive design
- Energy savings of up to 60 % compared to conventional high bay luminaires
- Optimized weight and size due to compact design

### Product features

- Operating temperature: -20...45 °C
- Black aluminum housing, tempered glass cover
- Opal cover
- Type of protection: IP65
- Lifetime (L70): up to 50,000 h
- High luminous efficacy: up to 120 lm/W

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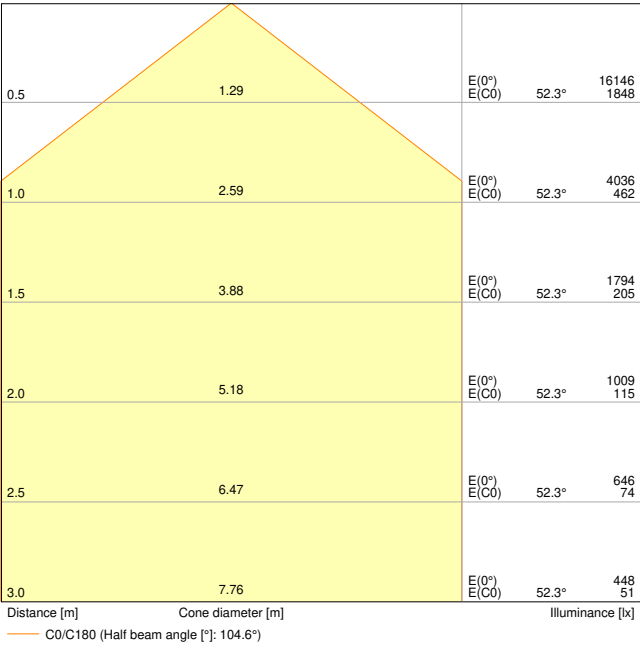
## TECHNICAL DATA

### Electrical data

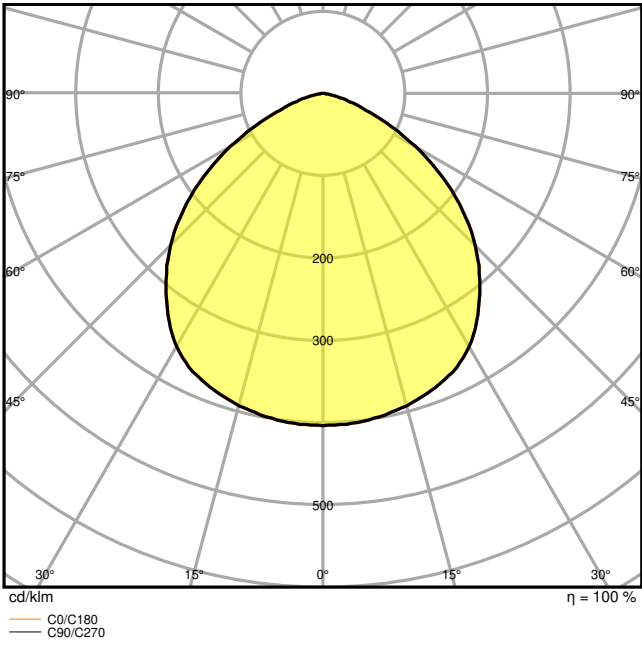
|                                                             |               |
|-------------------------------------------------------------|---------------|
| Nominal wattage                                             | 83.00 W       |
| Nominal voltage                                             | 220...240 V   |
| Mains frequency                                             | 50...60 Hz    |
| Nominal current                                             | 360 mA        |
| Inrush current                                              | 9.5 A         |
| Inrush current time $T_{h50}$                               | 16.04 $\mu$ s |
| Max. number of luminaires per miniature circuit breaker B16 | 35            |
| Max. number of luminaires per miniature circuit breaker C10 | 22            |
| Max. number of luminaires per miniature circuit breaker C16 | 35            |
| Power factor $\lambda$                                      | > 0.90        |
| Total harmonic distortion                                   | < 20 %        |
| Protection class                                            | I             |
| Operating mode                                              | Mains voltage |

### Photometrical data

|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 10000 lm                  |
| Luminous efficacy                            | 120 lm/W                  |
| Color temperature                            | 4000 K                    |
| Light color (designation)                    | Cool White                |
| Color rendering index Ra                     | > 80                      |
| Standard deviation of color matching         | $\leq 5$ sdc <sub>m</sub> |
| Photobiological safety group acc. to EN62778 | RG1                       |
| Beam angle                                   | 110 °                     |



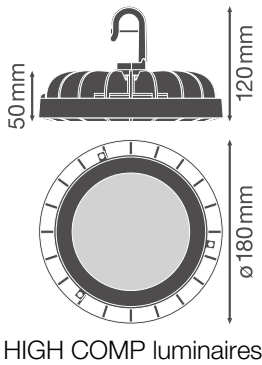
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Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 180.00 mm |
| Height         | 50.00 mm  |
| Product weight | 800.00 g  |
| Cable length   | 500 mm    |



Materials & Colors

|                          |          |
|--------------------------|----------|
| Product color            | Black    |
| Housing color            | Black    |
| RAL Color (most similar) | RAL 9017 |

|                                            |          |
|--------------------------------------------|----------|
| Body material                              | Aluminum |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C   |

### Application & Mounting

|                                        |               |
|----------------------------------------|---------------|
| Ambient temperature range              | -20...+45 °C  |
| Type of connection                     | Cable, 3-pole |
| Type of protection                     | IP65          |
| Protection class IK (shock resistance) | IK06          |
| Dimmable                               | No            |
| Mounting type                          | Post top      |
| Mounting location                      | Ceiling       |
| Application environment                | Indoor        |
| With light source                      | Yes           |
| Replaceable light source               | No            |

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 45000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 45000 h               |
| Lifespan L90/B10 at 25 °C  | 30000 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)

### Certificates & Standards

|                                                      |                      |
|------------------------------------------------------|----------------------|
| Standards                                            | CE / UKCA / CB / EAC |
| Luminaire with limited surface temperature, "D sign" | No                   |
| Ball shot safe                                       | No                   |
| EPD                                                  | LEDV-00040-V01.01-EN |
| Replaceable light source (EPREL)                     | Not replaceable      |

### EQUIPMENT / ACCESSORIES

- Bracket available
- Reflector available

### DOWNLOAD DATA

| Documents and certificates                                                                                                | Document name             |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------|
|  User instruction / safety instructions | UI HighBay Compact V 110D |

| Documents and certificates                                                         |                                     | Document name                           |
|------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------|
|    | Legal information                   | LS Insert HighBay Compact V 110D        |
|    | Legal information                   | Legal insert HB VAL AND HB COMP V       |
|    | Legal information                   | Informationstext 18 Abs 4 ElektroG      |
|    | Declarations of conformity          | EC Declaration HB COMP V                |
|    | Declarations of conformity UKCA     | HB COMP V 110DEG IP65                   |
|    | EPD                                 | EPD EN HIGH BAY COMPACT                 |
| Photometric and lighting design files                                              |                                     | Document name                           |
|    | IES file (IES)                      | HB COMP V 83W 840 110DEG IP65           |
|   | LDT file (Eulumdat)                 | HB COMP V 83W 840 110DEG IP65           |
|  | ULD file (DIALux)                   | HB COMP V 83W 840 110DEG                |
|  | ROLF file (RELUX)                   | HB COMP V 83W 840                       |
|  | UGR file (UGR table)                | HB COMP V 83W 840 110DEG IP65           |
|  | Light distribution curve type cone  | HB COMP V 83W 840 110DEG IP65           |
|  | Light distribution curve type polar | HB COMP V 83W 840 110DEG IP65           |
| CAD/BIM files                                                                      |                                     | Document name                           |
|  | BIM Revit 3D                        | High Bay Compact                        |
|  | CAD STEP 3D                         | HB COMP 83W                             |
| Tender texts                                                                       |                                     | Document name                           |
|  | Tender documents                    | HIGH BAY COMPACT 83W 840 110DEG IP65-EN |

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|--------------|------------------------------|--------------------------------------|--------------|--------|
|--------------|------------------------------|--------------------------------------|--------------|--------|

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075708174 | Shipping box<br>1            | 75 mm x 215 mm x 225 mm              | 1005.00 g    | 3.63 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.

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## ADDITIONAL CATALOG INFORMATION

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### References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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### DISCLAIMER

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