

# PRODUCT DATASHEET

## HB P 87W 840 110DEG IP65

HIGH BAY GEN 4 | High-bay luminaires up to 150 lm/W and attractive UGR



PERFOR-  
MANCE  
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

- Improved UGR compared to previous generations, down to  $UGR \leq 22$  in combination with reflector
- High luminous efficacy
- Energy savings of up to 64 % compared to conventional high bay luminaires
- 5 years guarantee
- Optimized weight and size due to compact design

### Product features

- Different luminous flux and beam angle for mounting heights of ~ 6 m to 14 m in 4000 K or 6500 K

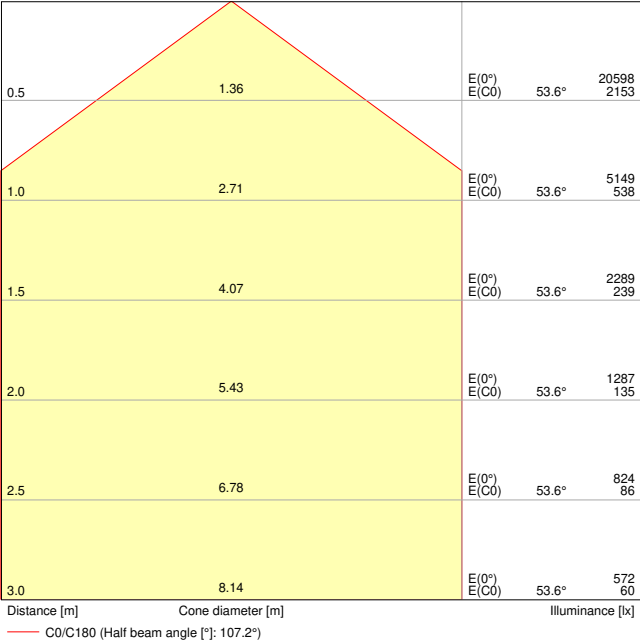
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**TECHNICAL DATA****Electrical data**

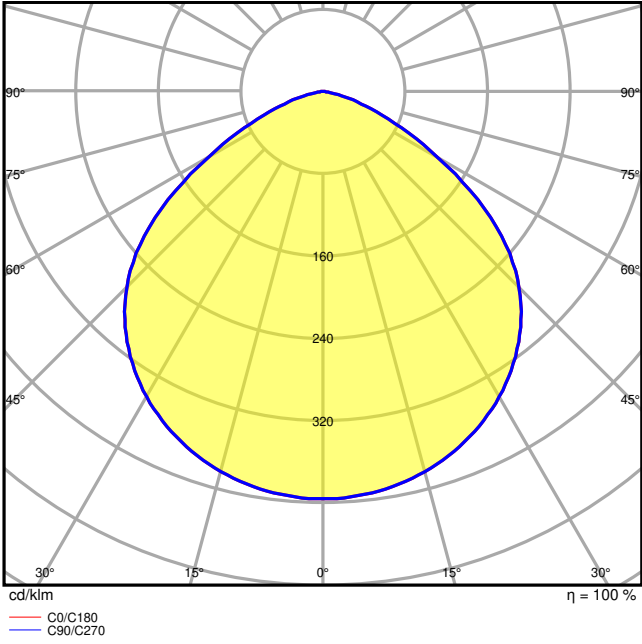
|                                                             |               |
|-------------------------------------------------------------|---------------|
| Nominal wattage                                             | 87.00 W       |
| Nominal voltage                                             | 220...240 V   |
| Mains frequency                                             | 50...60 Hz    |
| Nominal current                                             | 400 mA        |
| Inrush current                                              | 42 A          |
| Inrush current time $T_{h50}$                               | 378 $\mu$ s   |
| Max. number of luminaires per miniature circuit breaker B16 | 5             |
| Max. number of luminaires per miniature circuit breaker C10 | 5             |
| Max. number of luminaires per miniature circuit breaker C16 | 9             |
| Power factor $\lambda$                                      | $\geq 0.95$   |
| Total harmonic distortion                                   | $< 20 \%$     |
| Protection class                                            | I             |
| Operating mode                                              | Mains voltage |

**Photometrical data**

|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 13000 lm                  |
| Luminous efficacy                            | 150 lm/W                  |
| Color temperature                            | 4000 K                    |
| Light color (designation)                    | Cool White                |
| Color rendering index Ra                     | $\geq 80$                 |
| Standard deviation of color matching         | $\leq 5$ sdc <sub>m</sub> |
| Low flicker                                  | Yes                       |
| Photobiological safety group acc. to EN62778 | RG1                       |
| Beam angle                                   | 110 °                     |
| UGR                                          | $\leq 29$                 |



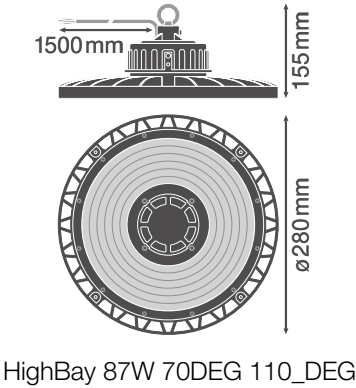
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Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 280.00 mm |
| Height         | 155.00 mm |
| Product weight | 2264.00 g |
| Cable length   | 1500 mm   |



Materials & Colors

|               |          |
|---------------|----------|
| Product color | Black    |
| Housing color | Black    |
| Body material | Aluminum |

|                                            |                    |
|--------------------------------------------|--------------------|
| Cover material                             | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C             |

### Application & Mounting

|                                        |                   |
|----------------------------------------|-------------------|
| Ambient temperature range              | -30...+50 °C      |
| Temperature range at storage           | -40...+70 °C      |
| Type of connection                     | Cable, 3-pole     |
| Type of protection                     | IP65              |
| Protection class IK (shock resistance) | IK08              |
| Dimmable                               | No                |
| Mounting type                          | Suspended/Surface |
| Mounting location                      | Ceiling / Wall    |
| Application environment                | Indoor            |
| With light source                      | Yes               |
| Replaceable light source               | No                |

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 80000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 50000 h               |
| Lifespan L90/B10 at 25 °C  | 35000 h               |
| Number of switching cycles | 200000                |

<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 / CB / ENEC / TÜV SÜD / EAC / EPD |
| Luminaire with limited surface temperature, "D sign" | Yes                                  |
| Ball shot safe                                       | No                                   |
| EPD                                                  | LEDV-00006-V01.01-EN                 |
| Replaceable light source (EPREL)                     | Not replaceable                      |

### EQUIPMENT / ACCESSORIES

- Mounting hook included
- Mounting brackets, reflectors and refractors available as separate accessory

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                            |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|
|    | User instruction / safety instructions | UI HighBay Gen4                          |
|    | User instruction / safety instructions | UI HighBay Gen4                          |
|    | Legal information                      | LS Insert HB P GEN4                      |
|    | Legal information                      | Legal insert HB P GEN 4 AND HB GEN 3     |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG       |
|    | Declarations of conformity             | EC Declaration HB P                      |
|    | Declarations of conformity UKCA        | UKCA Declaration of Conformity HB P IP65 |
|    | Declarations of conformity UKCA        | HB P IP65                                |
|   | Certificates                           | ENEC Certificate HB P and HB Sensor P    |
| Photometric and lighting design files                                              |                                        | Document name                            |
|  | IES file (IES)                         | HB P 87W 840 110DEG IP65                 |
|  | IES file (IES)                         | HB P 87W 840 110DEG IP65                 |
|  | LDT file (Eulumdat)                    | HB P 87W 840 110DEG IP65                 |
|  | LDT file (Eulumdat)                    | HB P 87W 840 110DEG IP65                 |
|  | ULD file (DIALux)                      | HB P 87W 840 110DEG                      |
|  | ROLF file (RELUX)                      | HB P 87W 840 110DEG IP65                 |
|  | UGR file (UGR table)                   | HB P 87W 840 110DEG IP65                 |
|  | Light distribution curve type cone     | HB P 87W 840 110DEG IP65                 |
|  | Light distribution curve type polar    | HB P 87W 840 110DEG IP65                 |
| CAD/BIM files                                                                      |                                        | Document name                            |
|  | BIM Revit 3D                           | HB G4                                    |

| CAD/BIM files                                                                                | Document name |
|----------------------------------------------------------------------------------------------|---------------|
|  CAD STEP 3D | HB G4 87W     |

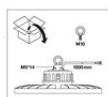
| Tender texts                                                                                      | Document name                         |
|---------------------------------------------------------------------------------------------------|---------------------------------------|
|  Tender documents | HIGH BAY GEN 4 87W 840 110DEG IP65-EN |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075692718 | Shipping box<br>1            | 328 mm x 328 mm x 171 mm             | 2872.00 g    | 18.40 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.

## ADDITIONAL CATALOG INFORMATION



## References / Links

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

## DISCLAIMER

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