

# PRODUCT DATASHEET

## HB P 87W 865 110DEG IP65

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



PERFOR-  
MANCE  
CLASS

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### 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)

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### 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

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### Product features

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

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 <sub>h50</sub>                        | 378 µs        |
| 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 λ                                              | ≥ 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                            | 6500 K              |
| Light color (designation)                    | Cool Daylight       |
| Color rendering index Ra                     | ≥80                 |
| Standard deviation of color matching         | ≤5 sdc <sub>m</sub> |
| Low flicker                                  | Yes                 |
| Photobiological safety group acc. to EN62778 | RG1                 |
| Beam angle                                   | 110 °               |
| UGR                                          | ≤ 29                |

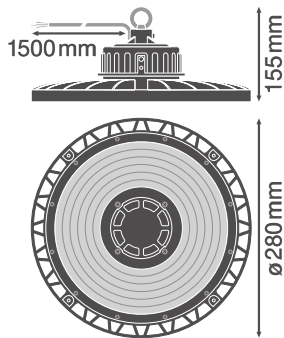
LDC typ cone

LDC typ polar

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            |
| LED module replaceable                 | Not replaceable   |
| With light source                      | Yes               |

Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 80000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 50000 h <sup>1)</sup> |
| 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 &amp; 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                 |

## EQUIPMENT / ACCESSORIES

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

## DOWNLOAD DATA

| Documents and certificates                                                         |                                 |
|------------------------------------------------------------------------------------|---------------------------------|
|   | User instruction                |
|  | Addon Technical Information     |
|  | Packaging insert                |
|  | Declarations Of Conformity CE   |
|  | Declarations Of Conformity UKCA |
|  | Certificates                    |
|  | PEP Ecopassport                 |
| Photometric and lighting design files                                              |                                 |
|  | IES file (IES)                  |
|  | LDT file (Eulumdat)             |
|  | ULD file (DIALux)               |
|  | ROLF file (RELUX)               |

## Photometric and lighting design files



UGR file (UGR table)



LDC typ cone



LDC typ polar

## CAD/BIM files



BIM\_Revit\_3D



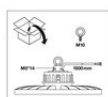
CAD\_STEP\_3D

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075692848 | 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)

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