

PRODUCT DATASHEET

HB P 87W 840 70DEG IP65

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



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

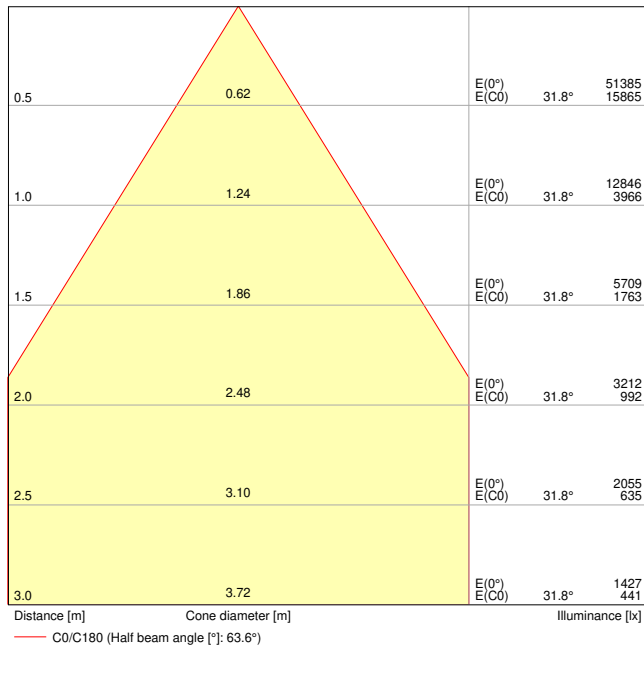
TECHNICAL DATA

Electrical data

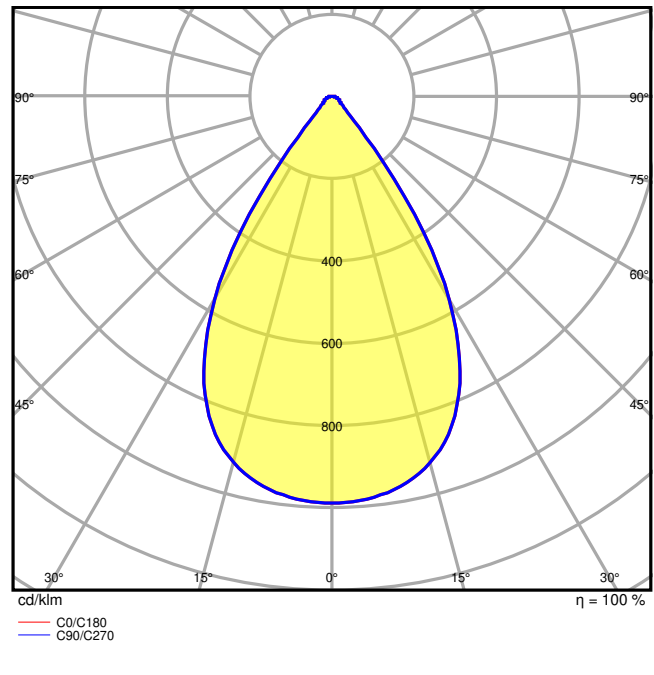
| | |
|--|---------------|
| Nominal wattage | 87.00 W |
| Nominal voltage | 220...240 V |
| Mains frequency | 50...60 Hz |
| Nominal current | 400 mA |
| Inrush current | 42 A |
| Inrush current time T_{h50} | 378 μ s |
| Max. no. of lum. on circuit break. B16 A | 5 |
| Max. no. of lum. on circuit break. C10 A | 5 |
| Max. no. of lum. on circuit break. C16 A | 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 | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | ≥ 80 |
| Standard deviation of color matching | ≤ 5 sdc _m |
| Low flicker | Yes |
| Photobiological safety group acc. to EN62778 | RG1 |
| Beam angle | 70 ° |
| UGR | ≤ 25 |



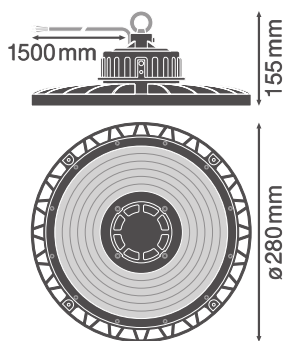
LDC typ cone



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 |
| Lifespan L80/B10 at 25 °C | 50000 h |
| Lifespan L90/B10 at 25 °C | 35000 h |
| Number of switching cycles | 200000 |

Control gear

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

Certificates & Standards

| | |
|--|--------------------------------|
| Standards | CE / CB / ENEC / TÜV SÜD / EAC |
| Luminaire with limited surface temperature, "D sign" | Yes |
| Ball shot safe | No |

EQUIPMENT / ACCESSORIES
















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

DOWNLOAD DATA

Documents and certificates



User instruction

| Documents and certificates | |
|---|---------------------------------|
|  | Addon Technical Information |
|  | Packaging insert |
|  | Declarations Of Conformity CE |
|  | Certificates |
|  | Declarations Of Conformity UKCA |
| Photometric and lighting design files | |
|  | IES file (IES) |
|  | LDT file (Eulumdat) |
|  | ULD file (DIALux) |
|  | ROLF file (RELUX) |
|  | UGR file (UGR table) |
|  | LDC typ cone |
|  | LDC typ polar |
| CAD/BIM files | |
|  | BIM_Revit_3D |
|  | CAD_STEP_3D |
| Tender texts | |
|  | Tender documents |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075692787 | Shipping box 1 | 328 mm x 328 mm x 171 mm | 2872.00 g | 18.40 dm ³ |

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

DISCLAIMER

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