# PRODUCT DATASHEET
# HB P 150W 840 70DEG IP66 PS

HIGH BAY GEN 5 | High-bay luminaires up to 181 lm/W and attractive UGR



PERFOR-
MANCE
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

- Highly versatile due to selectable lumen steps (Multi Lumen) on the housing
- Improved UGR compared to previous generations, down to UGR ≤ 19 (<150W, 70°) in combination with reflector
- High luminous efficacy
- Energy savings of up to 70 % compared to conventional high bay luminaires
- Optimized weight and size due to compact design

## Product features

- Multi Lumen function: lumen steps selectable
- Different luminous flux and beam angle for mounting heights of ~ 6 m to 18 m in 4000 K or 6500 K
- 0-10 V dimmable
- Lifetime (L80/B10): up to 100,000 h (at 35 °C)




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## TECHNICAL DATA

### Electrical data

| | |
|---|---|
| Nominal wattage | 150 W / 125 W |
| Nominal voltage | 220…240 V |
| Mains frequency | 50…60 Hz |
| Nominal current | 665…555 mA |
| Inrush current | 16.7 A |
| Inrush current time $T_{h50}$ | 302 µs |
| Max. number of luminaires per miniature circuit breaker B16 | 13 |
| Max. number of luminaires per miniature circuit breaker C10 | 10 |
| Max. number of luminaires per miniature circuit breaker C16 | 16 |
| Power factor λ | > 0.95 |
| Total harmonic distortion | < 15 % |
| Protection class | I |
| Operating mode | Integrated LED driver |
| Dimming interface | 0-10V |

### Photometrical data

| | |
|---|---|
| Luminous flux | 26250 lm / 21875 lm |
| Luminous efficacy | 175 lm/W |
| Color temperature | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | ≥80 |
| Standard deviation of color matching | ≤4 sdcm |
| Low flicker | Yes |
| Flickering metric (Pst LM) | <1 |
| Stroboscope effect metric (SVM) | <0,4 |
| Photobiological safety group acc. to EN62778 | RG1 |
| Beam angle | 70 ° |


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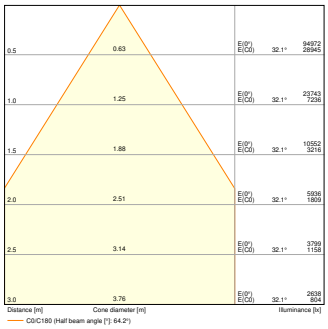
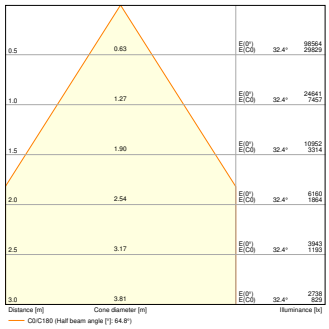
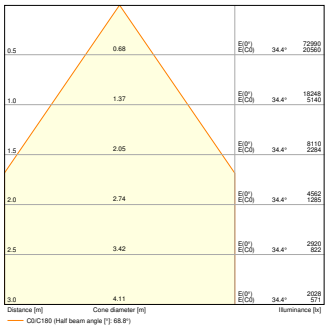


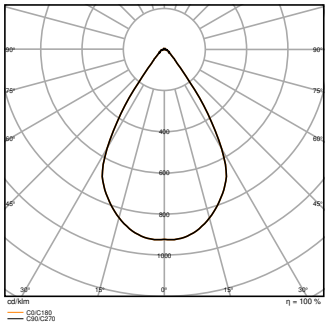
HB P 150W 840 70DEG IP66 PS - REFRACTOR



HB P 150W 840 70DEG IP66 PS - REFLECTOR



HB P 150W 840 70DEG IP66 PS set to 125W



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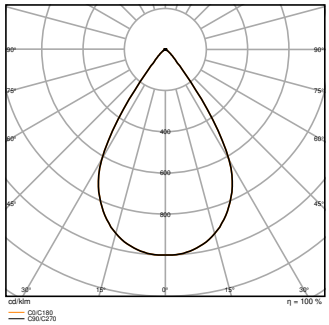

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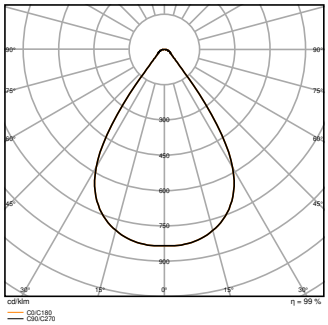
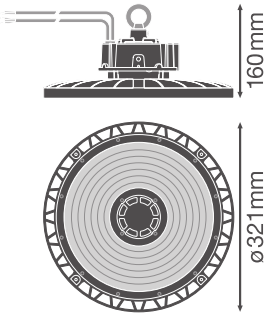


HB P 150W 840 70DEG IP66 PS set to 125W

## Dimensions & Weight

| | |
|---|---|
| Diameter | 321.00 mm |
| Height | 160.00 mm |
| Product weight | 2900.00 g |
| Cable length | 1500 mm |




HB P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## Materials & Colors

| | |
|---|---|
| Product color | Black |
| Housing color | Black |
| RAL Color (most similar) | RAL 9005 |
| Body material | Aluminum |
| Cover material | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C |
| Mercury content | 0.0 mg |

## Application & Mounting

| | |
|---|---|
| Ambient temperature range | -30…+50 °C |
| Temperature range at storage | -40…+80 °C |
| Type of connection | Cable, 3-pole |
| Type of protection | IP66 |
| Protection class IK (shock resistance) | IK10 |
| Dimmable | Yes |
| Mounting type | Surface/Suspended |
| Mounting location | Ceiling / Wall |
| Application environment | Indoor |
| With light source | Yes |
| Replaceable light source | No |

## Lifespan

| | |
|---|---|
| Lifespan L70/B50 at 25 °C | 120000 h [1)] |
| Lifespan L80/B10 at 25 °C | 100000 h [1)] |
| Lifespan L80/B50 at 25 °C | 100000 h |
| Lifespan L90/B10 at 25 °C | 49000 h |
| Number of switching cycles | 200000 |

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

## Control gear

| | |
|---|---|
| Output current | 615 mA |
| ECG - Output ripple current | < 5 % |

## Certificates & Standards


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| | |
|---|---|
| Standards | CE / UKCA / EAC / CB / ENEC / TÜV SÜD / EPD |
| Luminaire with limited surface temperature, "D sign" | Yes |
| Ball shot safe | No |
| EPD | LEDV-00032-V01.01-EN |
| Replaceable light source (EPREL) | Not replaceable |

## Additional product data

| | |
|---|---|
| Added function | MULTI SELECT |

## Accessories Optional

| Product image | Product name | EAN |
|---|---|---|
|  | HB BRACKET 138 | 4058075844643 |
|  | HB ALU REFLECTOR 500 | 4058075844582 |
|  | HB PC REFRACTOR 500 | 4058075844629 |
|  | HB EL CONV BOX 30W 3H MT AT | 4099854690624 |
|  | HB EL CONV BOX REMOTE CONTROL | 4099854719523 |

## EQUIPMENT / ACCESSORIES

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

## DOWNLOAD DATA


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| | Documents and certificates | Document name |
|---|---|---|
| PDF | User instruction / safety instructions | HB ACC UI |
| PDF | Legal information | HB P |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Legal information | Safety Insert G11205496 |
| PDF | Declarations of conformity | HIGHBAY P |
| PDF | Declarations of conformity UKCA | HIGHBAY P |
| PDF | Certificates | ENEC HIGHBAY P ON_OFF |
| PDF | EPD | EPD EN HIGH BAY GEN 5 DALI |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | HB P 150W 840 70DEG IP66 PS |
| LDT | LDT file (Eulumdat) | HB P 150W 840 70DEG IP66 PS |
| ULD | ULD file (DIALux) | HB P 150W 840 70DEG IP66 |
| ROLF | ROLF file (RELUX) | HB P 150W 840 70DEG |
| | UGR file (UGR table) | HB P 150W 840 70DEG IP66 PS |
| | UGR file (UGR table) | HB P 150W 840 70DEG IP66 PS - REFRACTOR |
| | UGR file (UGR table) | HB P 150W 840 70DEG IP66 PS - REFLECTOR |
| | Light distribution curve type cone | HB P 150W 840 70DEG IP66 PS - REFRACTOR |
| | Light distribution curve type cone | HB P 150W 840 70DEG IP66 PS - REFLECTOR |
| | Light distribution curve type cone | HB P 150W 840 70DEG IP66 PS set to 125W |
| | Light distribution curve type polar | HB P 150W 840 70DEG IP66 PS - REFRACTOR |
| | Light distribution curve type polar | HB P 150W 840 70DEG IP66 PS - REFLECTOR |


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| | Photometric and lighting design files | Document name |
|---|---|---|
| | Light distribution curve type polar | HB P 150W 840 70DEG IP66 PS set to 125W |

| | CAD/BIM files | Document name |
|---|---|---|
| | BIM Revit 3D | High Bay G5 |
| | CAD STEP 3D | HB G5 150W |

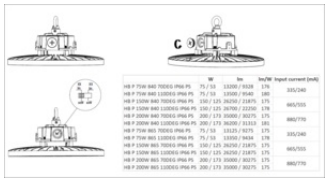
| | Tender texts | Document name |
|---|---|---|
| | Tender documents | HIGH BAY GEN 5 150W 840 70DEG IP66 PS-EN |

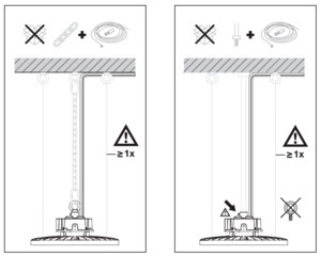
## LOGISTICAL DATA

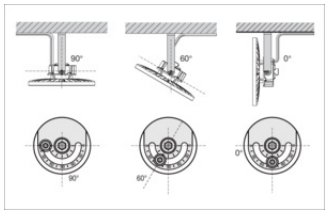
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4058075844308 | Shipping box<br>1 | 368 mm x 368 mm x 168 mm | 3553.00 g | 22.75 $dm^3$ |

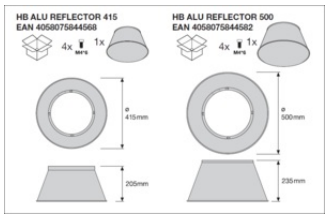
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

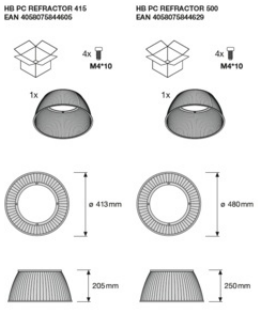
## ADDITIONAL CATALOG INFORMATION

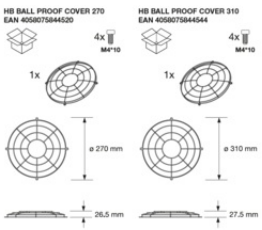









## References / Links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