

PRODUCT DATASHEET

HB P 150W 840 110DEG 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 power steps (Multi Lumen) on the housing
- Improved UGR compared to previous generations, down to $UGR \leq 19$ (<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: power 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)



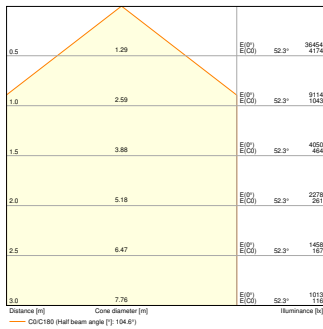
TECHNICAL DATA

Electrical data

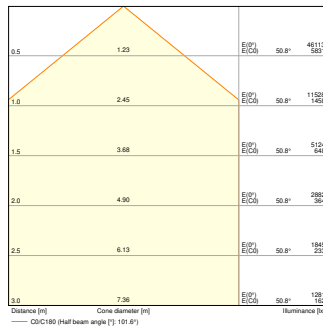
| | |
|---|-----------------------|
| Nominal wattage | 150 W / 125 W |
| Nominal voltage | 220...240 V |
| Mains frequency | 50...60 Hz |
| Nominal current | 665...555 mA |
| Inrush current | 16.7 A |
| Inrush current time T_{h50} | 302 μ s |
| Max. number of luminaires per miniature circuit breaker 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

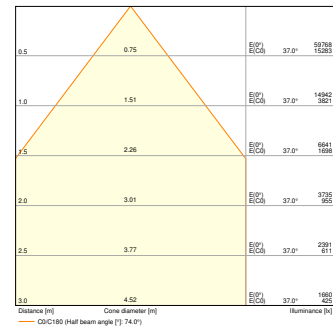
| | |
|--|---------------------------|
| Luminous flux | 26700 lm / 22250 lm |
| Luminous efficacy | 178 lm/W |
| Color temperature | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | ≥ 80 |
| Standard deviation of color matching | ≤ 4 sdc _m |
| Low flicker | Yes |
| Flickering metric (Pst LM) | <1 |
| Stroboscope effect metric (SVM) | <0,4 |
| Photobiological safety group acc. to EN62778 | RG1 |
| Beam angle | 110 ° |



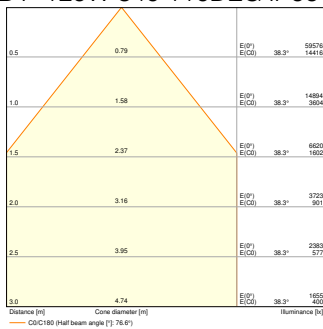
HB P 125W 840 110DEG IP66 PS



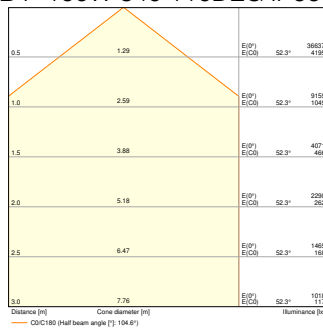
HB P 150W 840 110DEG IP66 PS



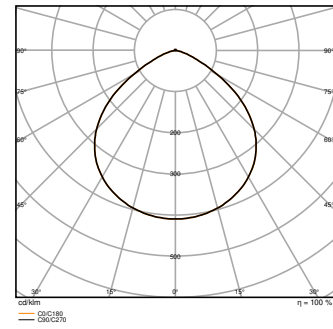
HB P 150W 840 110DEG IP66 PS - REFRACTOR



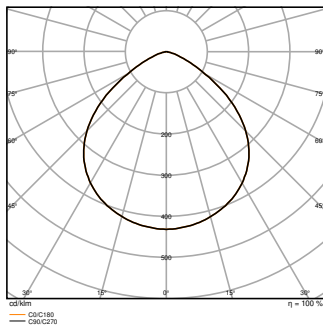
HB P 150W 840 110DEG IP66 PS - REFLECTOR



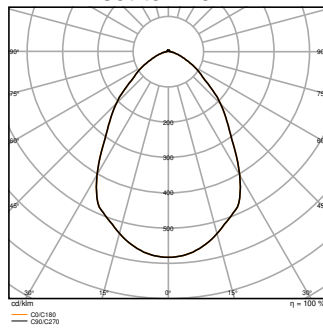
HB P 150W 840 110DEG IP66 PS set to 125W



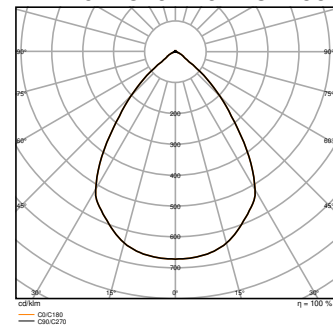
HB P 125W 840 110DEG IP66 PS



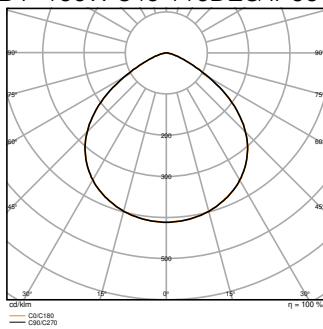
HB P 150W 840 110DEG IP66 PS



HB P 150W 840 110DEG IP66 PS - REFRACTOR



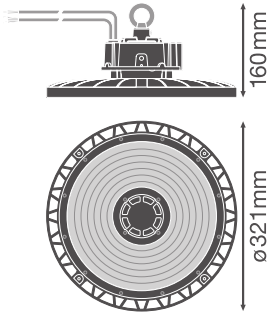
HB P 150W 840 110DEG IP66 PS - REFLECTOR



HB P 150W 840 110DEG 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

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 |
| 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 |

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

| | |
|--|---|
| 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 |

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 | HB ACC UI |
|  | Legal information | HB P |
|  | Legal information | Informationstext 18 Abs 4 ElektroG |
|  | Legal information | Safety Insert G11205496 |
|  | Declarations of conformity | HIGHBAY P |
|  | Declarations of conformity UKCA | HIGHBAY P |
|  | Certificates | ENEC HIGHBAY P ON_OFF |
| Photometric and lighting design files | | Document name |
|  | IES file (IES) | HB P 125W 840 110DEG IP66 PS |
|  | IES file (IES) | HB P 150W 840 110DEG IP66 PS |
|  | IES file (IES) | HB P 150W 840 110DEG IP66 PS - REFLECTOR |
|  | IES file (IES) | HB P 150W 840 110DEG IP66 PS - REFRACTOR |
|  | IES file (IES) | HB P 150W 840 110DEG IP66 PS set to 125W |
|  | LDT file (Eulumdat) | HB P 125W 840 110DEG IP66 PS |
|  | LDT file (Eulumdat) | HB P 150W 840 110DEG IP66 PS |
|  | LDT file (Eulumdat) | HB P 150W 840 110DEG IP66 PS - REFRACTOR |

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|--|-------------------------------------|--|
|  | LDT file (Eulumdat) | HB P 150W 840 110DEG IP66 PS - REFLECTOR |
|  | LDT file (Eulumdat) | HB P 150W 840 110DEG IP66 PS set to 125W |
|  | ULD file (DIALux) | HB P 150W 840 110DEG IP66 PS |
|  | ROLF file (RELUX) | HB P 150W 840 110DEG IP66 PS |
|  | UGR file (UGR table) | HB P 125W 840 110DEG IP66 PS |
|  | UGR file (UGR table) | HB P 150W 840 110DEG IP66 PS |
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|  | UGR file (UGR table) | HB P 150W 840 110DEG IP66 PS set to 125W |
|  | Light distribution curve type cone | HB P 125W 840 110DEG IP66 PS |
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|  | Light distribution curve type polar | HB P 125W 840 110DEG IP66 PS |
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|  | Light distribution curve type polar | HB P 150W 840 110DEG IP66 PS - REFLECTOR |
|  | Light distribution curve type polar | HB P 150W 840 110DEG IP66 PS set to 125W |
| CAD/BIM files | | Document name |
|  | BIM Revit 3D | High Bay G5 |
|  | CAD STEP 3D | HB G5 150W |

