

# PRODUCT DATASHEET

## HB P 75W 865 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 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)



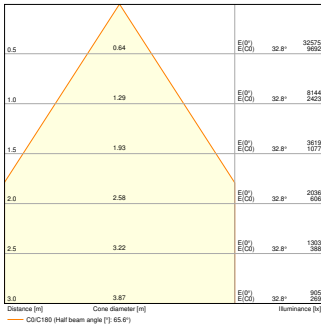
## TECHNICAL DATA

### Electrical data

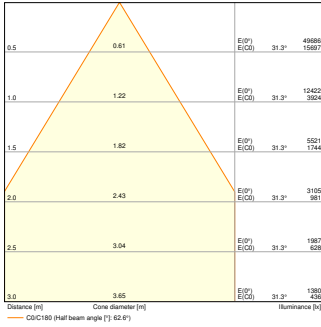
|   |                       |
|---|-----------------------|
| Nominal wattage   | 75 W / 53 W           |
| Nominal voltage   | 220...240 V           |
| Mains frequency   | 50...60 Hz            |
| Nominal current   | 335...240 mA          |
| Inrush current  | 14 A                  |
| Inrush current time $T_{h50}$                               | 324 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 15                    |
| Max. number of luminaires per miniature circuit breaker C10 | 12                    |
| Max. number of luminaires per miniature circuit breaker C16 | 19                    |
| Power factor $\lambda$                                      | > 0.95                |
| Total harmonic distortion                                   | < 15 %                |
| Protection class  | I                     |
| Operating mode  | Integrated LED driver |
| Dimming interface   | 0-10V                 |

### Photometrical data

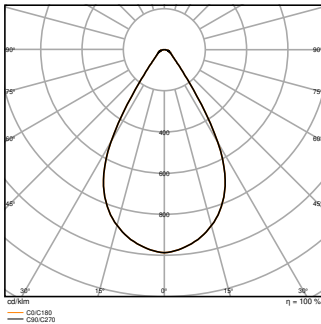
|  |                           |
|--|---------------------------|
| Luminous flux                                | 13125 lm / 9275 lm        |
| Luminous efficacy                            | 175 lm/W                  |
| Color temperature                            | 6500 K                    |
| Light color (designation)                    | Cool Daylight             |
| Color rendering index Ra                     | $\geq 80$                 |
| Standard deviation of color matching         | $\leq 4$ sdc <sub>m</sub> |
| Low flicker                                  | Yes                       |
| Flickering metric (Pst LM)                   | <1                        |
| Stroboscope effect metric (SVM)              | <0,4                      |
| Photobiological safety group acc. to EN62778 | RG1                       |
| Beam angle                                   | 70 °                      |



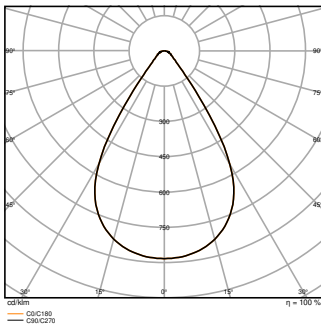
HB P 53W 865 70DEG IP66 PS



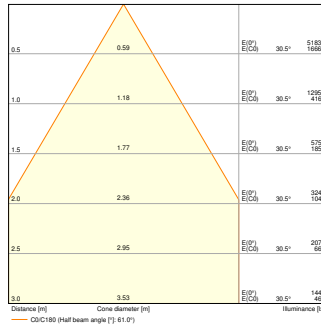
HB P 75W 865 70DEG IP66 PS - REFLECTOR



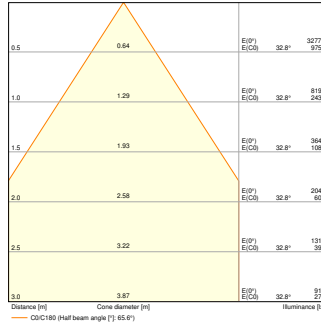
HB P 75W 865 70DEG IP66 PS



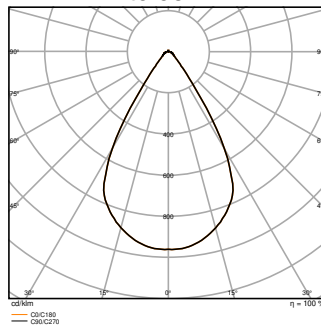
HB P 75W 865 70DEG IP66 PS set to 53W



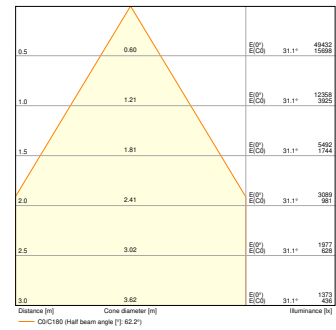
HB P 75W 865 70DEG IP66 PS



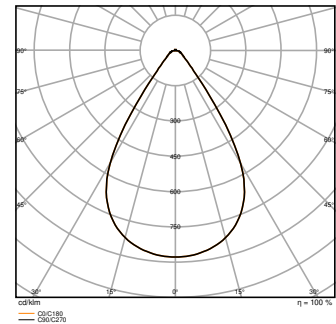
HB P 75W 865 70DEG IP66 PS set to 53W



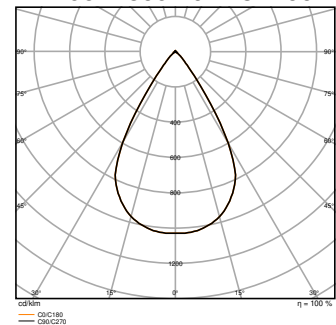
HB P 75W 865 70DEG IP66 PS - REFLECTOR



HB P 75W 865 70DEG IP66 PS - REFRACTOR



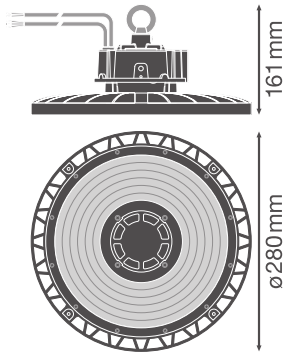
HB P 53W 865 70DEG IP66 PS



HB P 75W 865 70DEG IP66 PS - REFLECTOR

Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 280.00 mm |
| Height         | 161.00 mm |
| Product weight | 2600.00 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 <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 100000 h               |
| Lifespan L90/B10 at 25 °C  | 49000 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

|                             |        |
|-----------------------------|--------|
| Output current              | 305 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 415 | 4058075844568 |
|   | HB PC REFRACTOR 415  | 4058075844605 |

## 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 53W 865 70DEG IP66 PS             |
|  | IES file (IES)                         | HB P 75W 865 70DEG IP66 PS             |
|  | IES file (IES)                         | HB P 75W 865 70DEG IP66 PS - REFLECTOR |
|  | IES file (IES)                         | HB P 75W 865 70DEG IP66 PS - REFRACTOR |
|  | IES file (IES)                         | HB P 75W 865 70DEG IP66 PS set to 53W  |
|  | LDT file (Eulumdat)                    | HB P 53W 865 70DEG IP66 PS             |
|  | LDT file (Eulumdat)                    | HB P 75W 865 70DEG IP66 PS             |
|  | LDT file (Eulumdat)                    | HB P 75W 865 70DEG IP66 PS - REFRACTOR |

| Photometric and lighting design files   |                                     | Document name                          |
|---|-------------------------------------|--|
|    | LDT file (Eulumdat)                 | HB P 75W 865 70DEG IP66 PS - REFLECTOR |
|    | LDT file (Eulumdat)                 | HB P 75W 865 70DEG IP66 PS set to 53W  |
|    | ULD file (DIALux)                   | HB P 75W 865 70DEG IP66                |
|    | ROLF file (RELUX)                   | HB P 75W 865 70DEG                     |
|    | UGR file (UGR table)                | HB P 53W 865 70DEG IP66 PS             |
|    | UGR file (UGR table)                | HB P 75W 865 70DEG IP66 PS             |
|    | UGR file (UGR table)                | HB P 75W 865 70DEG IP66 PS - REFRACTOR |
|    | UGR file (UGR table)                | HB P 75W 865 70DEG IP66 PS - REFLECTOR |
|   | UGR file (UGR table)                | HB P 75W 865 70DEG IP66 PS set to 53W  |
|  | Light distribution curve type cone  | HB P 53W 865 70DEG IP66 PS             |
|  | Light distribution curve type cone  | HB P 75W 865 70DEG IP66 PS             |
|  | Light distribution curve type cone  | HB P 75W 865 70DEG IP66 PS - REFRACTOR |
|  | Light distribution curve type cone  | HB P 75W 865 70DEG IP66 PS - REFLECTOR |
|  | Light distribution curve type cone  | HB P 75W 865 70DEG IP66 PS set to 53W  |
|  | Light distribution curve type polar | HB P 53W 865 70DEG IP66 PS             |
|  | Light distribution curve type polar | HB P 75W 865 70DEG IP66 PS             |
|  | Light distribution curve type polar | HB P 75W 865 70DEG IP66 PS - REFRACTOR |
|  | Light distribution curve type polar | HB P 75W 865 70DEG IP66 PS - REFLECTOR |
|  | Light distribution curve type polar | HB P 75W 865 70DEG IP66 PS set to 53W  |
| CAD/BIM files   |                                     | Document name                          |
|  | BIM Revit 3D                        | High Bay G5                            |
|  | CAD STEP 3D                         | HB G5 75W                              |

| Tender texts | Document name |
|--------------|---------------|
|--------------|---------------|



Tender documents

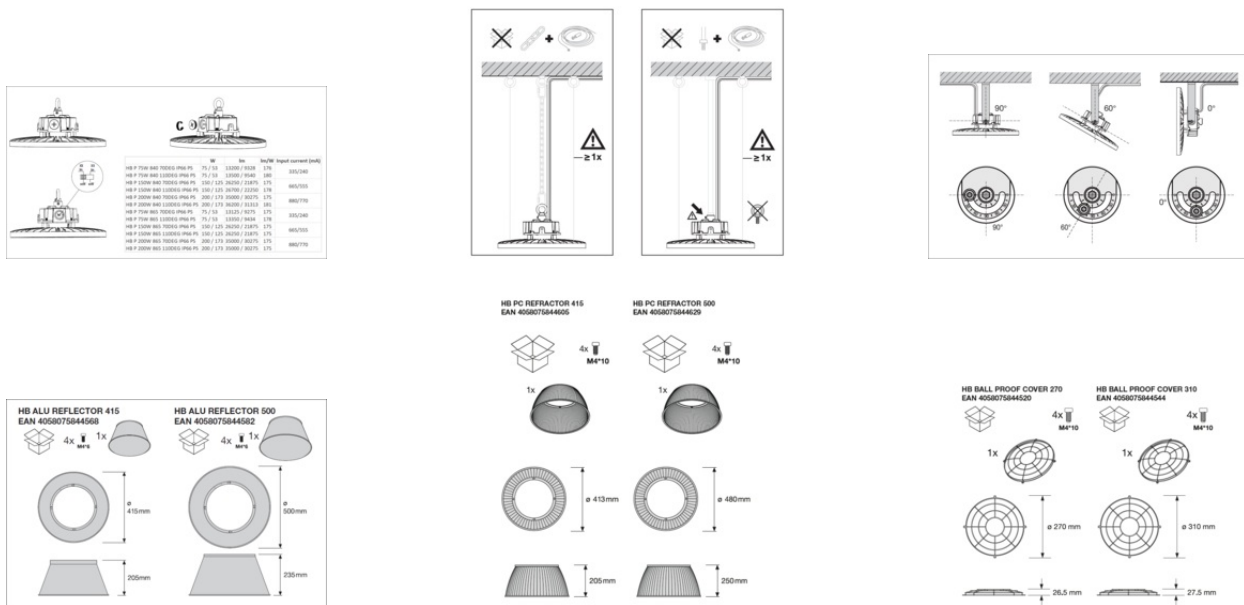
HIGH BAY GEN 5 75W 865 70DEG IP66 PS-EN

**LOGISTICAL DATA**

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075844346 | Shipping box<br>1            | 338 mm x 328 mm x 171 mm             | 3208.00 g    | 18.96 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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