

# PRODUCT DATASHEET

## HB P 200W 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)



---

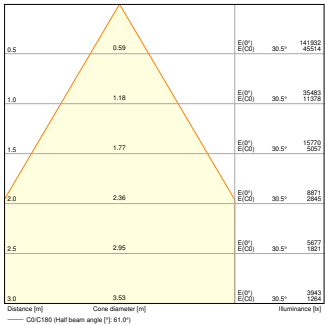
## TECHNICAL DATA

### Electrical data

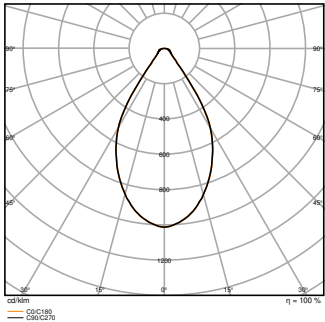
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 200 W / 173 W         |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 880...770 mA          |
| Inrush current                                              | 16.7 A                |
| Inrush current time $T_{h50}$                               | 302 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 9                     |
| Max. number of luminaires per miniature circuit breaker C10 | 8                     |
| Max. number of luminaires per miniature circuit breaker C16 | 12                    |
| Power factor $\lambda$                                      | > 0.95                |
| Total harmonic distortion                                   | < 15 %                |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |
| Dimming interface                                           | 0-10V                 |

### Photometrical data

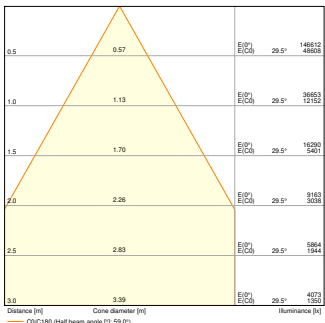
|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 35000 lm / 30275 lm       |
| Luminous efficacy                            | 175 lm/W                  |
| 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 °                      |



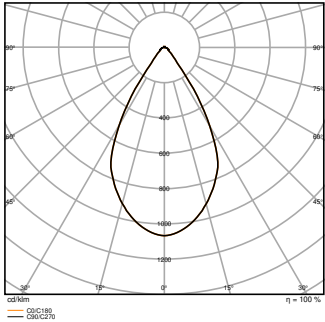
HB P 200W 865 70DEG IP66 PS



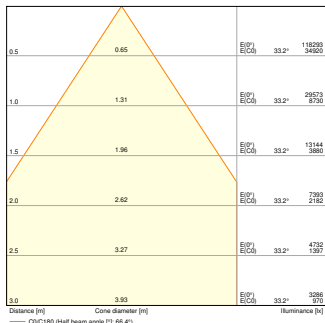
HB P 200W 865 70DEG IP66 PS



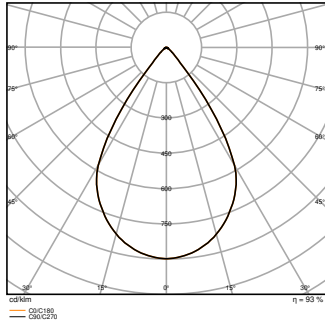
HB P 200W 865 70DEG IP66 PS -  
REFRACTOR



HB P 200W 865 70DEG IP66 PS -  
REFRACTOR



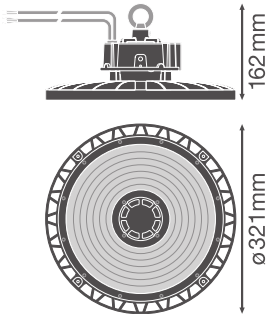
HB P 200W 865 70DEG IP66 PS -  
REFLECTOR



HB P 200W 865 70DEG IP66 PS -  
REFLECTOR

Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 321.00 mm |
| Height         | 162.00 mm |
| Product weight | 3300.00 g |
| Cable length   | 1500 mm   |



HB P

## 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 <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              | 825 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 |
|  | HB EL CONV BOX 30W 3H MT AT   | 4099854690624 |
|  | HB EL CONV BOX REMOTE CONTROL | 4099854719523 |

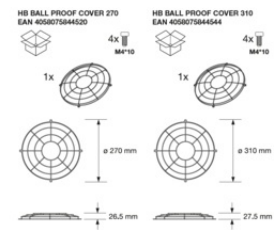
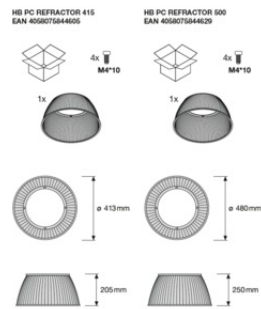
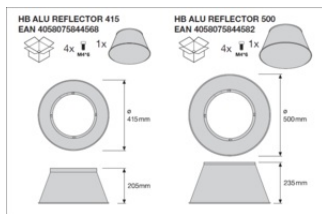
### EQUIPMENT / ACCESSORIES

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

### DOWNLOAD DATA

| 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                   |
|    | EPD                                    | EPD EN HIGH BAY GEN 5 DALI              |
| Photometric and lighting design files                                              |                                        | Document name                           |
|  | IES file (IES)                         | HB P 200W 865 70DEG IP66 PS             |
|  | IES file (IES)                         | HB P 200W 865 70DEG IP66 PS - REFLECTOR |
|  | IES file (IES)                         | HB P 200W 865 70DEG IP66 PS - REFRACTOR |
|  | LDT file (Eulumdat)                    | HB P 200W 865 70DEG IP66 PS             |
|  | LDT file (Eulumdat)                    | HB P 200W 865 70DEG IP66 PS - REFRACTOR |
|  | LDT file (Eulumdat)                    | HB P 200W 865 70DEG IP66 PS - REFLECTOR |
|  | ULD file (DIALux)                      | HB P 200W 865 70DEG IP66 PS             |
|  | ROLF file (RELUX)                      | HB P 200W 865 70DEG IP66 PS             |
|  | UGR file (UGR table)                   | HB P 200W 865 70DEG IP66 PS             |





## References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

## DISCLAIMER

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