

# PRODUCT DATASHEET

## HB FLEX P 240W 35 ML 840 WT

HIGH BAY FLEX | High-bay luminaires with up to 195 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
- Sports facilities
- High ceiling (e.g. in shopping malls, airports, commercial buildings, lobbies)

### Product benefits

- Flat housing design to minimize dust accumulation and easy cleaning
- Optimized weight and size due to compact design
- Ball-proof luminaire with increased physical robustness (according to DIN 18032-3 and DIN 57710-13)
- Energy savings of up to 70 % compared to conventional high bay luminaires

### Product features

- Multi Power and Multi lumen, power selectable
- Different luminous flux and beam angle for mounting heights
- High luminous efficacy: up to 195 lm/W
- Lifetime (L80/B10): up to 100,000 h (at 35 °C)
- Type of protection: up to IP66
- Impact resistance: IK10



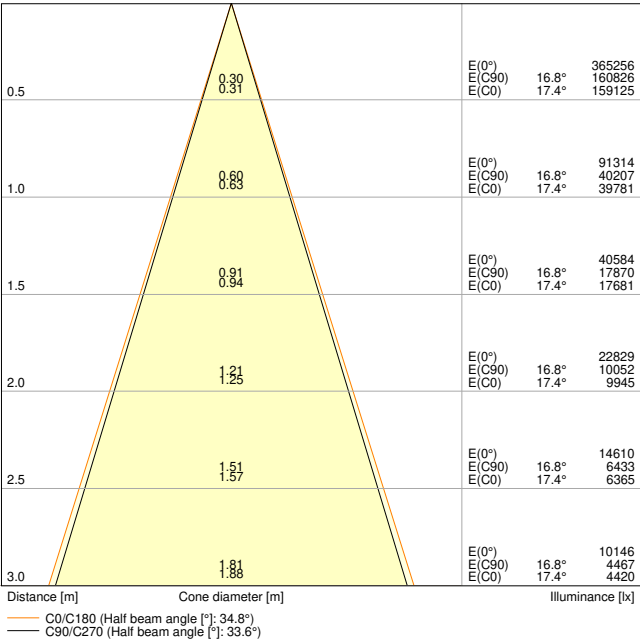
## TECHNICAL DATA

### Electrical data

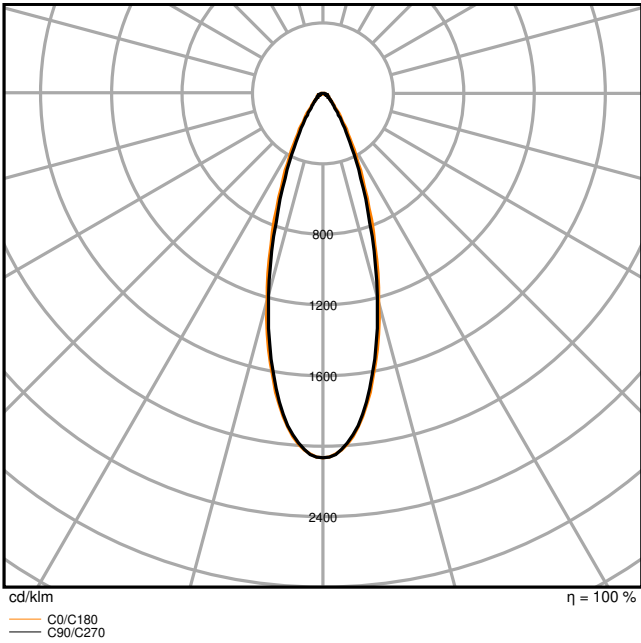
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 240 W / 180 W / 120 W |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 1100/820/540 mA       |
| Inrush current                                              | 43.6 A                |
| Inrush current time $T_{h50}$                               | 156 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 10                    |
| 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                                | 44160 lm / 34200 lm / 23400 lm |
| Luminous efficacy                            | 195 lm/W / 190 lm/W / 184 lm/W |
| Color temperature                            | 4000 K                         |
| Light color (designation)                    | Cool White                     |
| Color rendering index Ra                     | $\geq 80$                      |
| Standard deviation of color matching         | $\leq 3$ 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                                   | 35 °                           |



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Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 240 W           | 4000 K            | 44160 lm      | 184 lm/W          |
| 180 W           | 4000 K            | 34200 lm      | 190 lm/W          |
| 120 W           | 4000 K            | 23400 lm      | 195 lm/W          |

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 585.00 mm |
| Width          | 320.00 mm |
| Height         | 95.00 mm  |
| Product weight | 5800.00 g |
| Cable length   | 1500 mm   |

Materials & Colors

|                |                    |
|----------------|--------------------|
| Product color  | White              |
| Housing color  | White              |
| 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            |
| Adjustable                             | Yes               |
| With light source                      | Yes               |
| Replaceable light source               | No                |

### Lifespan

|                            |                        |
|----------------------------|------------------------|
| Lifespan L70/B50 at 25 °C  | 102000 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              | 1000 mA |
| ECG - Output ripple current | < 5 %   |

### Emergency lighting

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| Type of Emergency Lighting (EL)  | EL certified driver (0Hz / DC operation) for central battery operation included |
| Type of emergency operation test | None                                                                            |

### Certificates & Standards

|                                                      |                                     |
|------------------------------------------------------|-------------------------------------|
| Standards                                            | CE / UKCA / EAC / CB / ENEC / Dmark |
| Luminaire with limited surface temperature, "D sign" | Yes                                 |

|                                  |                 |
|----------------------------------|-----------------|
| Ball shot safe                   | Yes             |
| Replaceable light source (EPREL) | Not replaceable |

### Additional product data

|                |                               |
|----------------|-------------------------------|
| Product remark | Available from September 2025 |
| Added function | MULTI SELECT                  |

### Accessories Optional

| Product image                                                                    | Product name            | EAN           |
|----------------------------------------------------------------------------------|-------------------------|---------------|
|  | HB FLEX BRACKET CHAIN   | 4099854612787 |
|  | HB FLEX BRACKET SURFACE | 4099854612800 |

### EQUIPMENT / ACCESSORIES

- Mounting hook included
- Mounting brackets for surface and chain mounting available as separate accessory

### Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- Product in protection class I. All electrically conductive, metallic housing parts that can absorb voltage during operation or during maintenance in the event of a fault must be continuously connected to the protective earthing conductor.
- To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm's reach.

### DOWNLOAD DATA

| Documents and certificates                                                                                                | Document name                      |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------|
|  User instruction / safety instructions | HB FLEX 840                        |
|  Legal information                      | Safety Insert G11205496            |
|  Legal information                      | Informationstext 18 Abs 4 ElektroG |

| Documents and certificates                                                         |                                     | Document name                      |
|------------------------------------------------------------------------------------|-------------------------------------|------------------------------------|
|    | Legal information                   | Legal Insert G11198263             |
|    | Legal information                   | LISO insert G11228743              |
|    | Declarations of conformity          | HB FLEX LUM                        |
|    | Declarations of conformity UKCA     | HB FLEX LUM                        |
|    | Certificates                        | ENEC Certificate                   |
| Photometric and lighting design files                                              |                                     | Document name                      |
|    | IES file (IES)                      | HB FLEX P 240W 35 ML 840 WT        |
|    | LDT file (Eulumdat)                 | HB FLEX P 240W 35 ML 840 WT        |
|   | UGR file (UGR table)                | HB FLEX P 240W 35 ML 840 WT        |
|  | Light distribution curve type cone  | HB FLEX P 240W 35 ML 840 WT        |
|  | Light distribution curve type polar | HB FLEX P 240W 35 ML 840 WT        |
| CAD/BIM files                                                                      |                                     | Document name                      |
|  | BIM Revit 3D                        | Highbay Flex                       |
| Tender texts                                                                       |                                     | Document name                      |
|  | Tender documents                    | HIGH BAY FLEX 240W 35 ML 840 WT-en |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854538780 | Shipping box<br>1            | 647 mm x 402 mm x 140 mm             | 6906.00 g    | 36.41 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.

## References / Links

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

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