

# PRODUCT DATASHEET

## Orbis Pederson 450MM 24W 830 Black

Orbis Pederson | LED ceiling luminaire with plastic ring



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### Areas of application

- Indoor
- Living areas (living rooms, dining rooms, bedrooms etc.)

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### Product benefits

- Easy to install and use
- Long lifetime thanks to LED technology

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### Product features

- Type of protection: IP20
- Lifetime up to 30,000 h
- Color temperature: 3,000 K (Warm White)
- Robust quality with high-grade plastic



## TECHNICAL DATA

### Electrical data

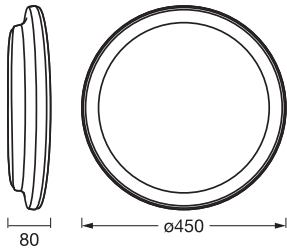
|   |                     |
|---|---------------------|
| Nominal wattage   | 24.00 W             |
| Nominal voltage   | 220...240 V         |
| Mains frequency   | 50...60 Hz          |
| Nominal current   | 185.000 mA          |
| Inrush current  | 0.185 A             |
| Inrush current time $T_{h50}$                               | 199 $\mu$ s         |
| Max. number of luminaires per miniature circuit breaker B16 | 35                  |
| Max. number of luminaires per miniature circuit breaker C10 | 30                  |
| Max. number of luminaires per miniature circuit breaker C16 | 48                  |
| Power factor $\lambda$                                      | > 0.5               |
| Total harmonic distortion                                   | < 101 %             |
| Protection class  | I                   |
| Operating mode  | External LED driver |

### Photometrical data

|  |                           |
|--|---------------------------|
| Luminous flux  | 1450 lm                   |
| Total luminous flux of contained light sources               | 2700 lm                   |
| Luminous efficacy  | 60 lm/W                   |
| Color temperature  | 3000 K                    |
| Reference control setting of contained light source (Kelvin) | 3000 K                    |
| Light color (designation)                                    | Warm White                |
| Color rendering index Ra                                     | $\geq$ 80                 |
| Standard deviation of color matching                         | $\leq$ 6 sdc <sub>m</sub> |
| Flickering metric (Pst LM)                                   | <1                        |
| Stroboscope effect metric (SVM)                              | <0.4                      |
| Photobiological safety group acc. to EN62778                 | RG0                       |
| Photobiological safety group acc. to EN62471                 | RG0                       |
| Beam angle   | 120 °                     |

### Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 450.00 mm |
| Height         | 80.00 mm  |
| Product weight | 1100.00 g |



ORBIS PEDERSON 450MM 24W  
830

### Materials & Colors

|  |         |
|--|---------|
| Product color                              | Black   |
| Housing color                              | Black   |
| Body material                              | Metal   |
| Cover material                             | Plastic |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C  |

### Application & Mounting

|  |                             |
|--|-----------------------------|
| Ambient temperature range              | -20...+40 °C                |
| Temperature range at storage           | -20...+80 °C                |
| Type of connection                     | Terminal, 3-Pole (L, N, PE) |
| Type of protection                     | IP20                        |
| Protection class IK (shock resistance) | IK03                        |
| Dimmable                               | No                          |
| Mounting type                          | Surface                     |
| Mounting location                      | Ceiling                     |
| Application environment                | Indoor                      |
| With light source                      | Yes                         |

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 50000 h <sup>1)</sup> |
| Number of switching cycles | 25000                 |

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

### Certificates & Standards

|  |                 |
|--|-----------------|
| Standards  | CE / UKCA       |
| Luminaire with limited surface temperature, "D sign" | No              |
| Replaceable light source (EPREL)                     | Not replaceable |




## EQUIPMENT / ACCESSORIES

- Mounting screws and dowels included

## Safety advice

- Luminaire must be disconnected from mains during installation, maintenance and cover removal
- Check wall-ceiling for suitability. If uncertain, seek professional advice.
- 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.
- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.

## DOWNLOAD DATA

| Documents and certificates  | Document name                      |
|---|------------------------------------|
|  User instruction / safety instructions | ORBIS PEDERSON 450/550MM 830 WT/BK |
|  Declarations of conformity             | ORBIS HELMAN ORBIS PEDERSON        |
|  Declarations of conformity UKCA        | ORBIS HELMAN ORBIS PEDERSON        |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854283505 | Folding box<br>1             | 92 mm x 472 mm x 473 mm              | 1388.00 g    | 20.54 dm <sup>3</sup> |
| 4099854283512 | Shipping box<br>4            | 488 mm x 388 mm x 498 mm             | 6861.00 g    | 94.29 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.

## DISCLAIMER

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