

# PRODUCT DATASHEET

## Essential Orbis IP44 220mm 12W 830 Black

Essential Orbis IP44 | Splash-proof LED ceiling light



### Areas of application

- Bathrooms
- Workshops, garages, covered outdoor storage areas
- Living areas (living rooms, dining rooms, bedrooms etc.)

### Product benefits

- Long lifetime thanks to LED technology
- Excellent price/performance ratio

### Product features

- Type of protection: IP44
- Lifetime up to 30,000 h



TECHNICAL DATA

Electrical data

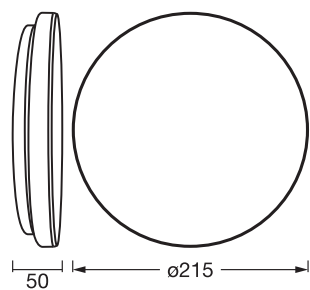
|                                                             |               |
|-------------------------------------------------------------|---------------|
| Nominal wattage                                             | 12.00 W       |
| Nominal voltage                                             | 220...240 V   |
| Mains frequency                                             | 50...60 Hz    |
| Nominal current                                             | 110.000 mA    |
| Inrush current                                              | 0.11 A        |
| Inrush current time T <sub>h50</sub>                        | 196 µs        |
| Max. number of luminaires per miniature circuit breaker B16 | 87            |
| Max. number of luminaires per miniature circuit breaker C10 | 90            |
| Max. number of luminaires per miniature circuit breaker C16 | 145           |
| Power factor λ                                              | 0.50          |
| Total harmonic distortion                                   | 64 %          |
| Protection class                                            | I             |
| Operating mode                                              | Mains voltage |

Photometrical data

|                                                |                    |
|------------------------------------------------|--------------------|
| Luminous flux                                  | 800 lm             |
| Total luminous flux of contained light sources | 1400               |
| Luminous efficacy                              | 67 lm/W            |
| Color temperature                              | 3000 K             |
| Light color (designation)                      | Warm White         |
| Color rendering index Ra                       | 80                 |
| Standard deviation of color matching           | 6 sdc <sub>m</sub> |
| Flickering metric (Pst LM)                     | <1                 |
| Stroboscope effect metric (SVM)                | <0.4               |
| Photobiological safety group acc. to EN62778   | RG0                |
| Beam angle                                     | 120 °              |

Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 215.00 mm |
| Height         | 50.00 mm  |
| Product weight | 350.00 g  |



ORBIS ESSENTIAL 220 12W

Materials & Colors

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Product color                              | Black                         |
| Housing color                              | Black                         |
| Body material                              | Metal                         |
| Cover material                             | Polymethylmethacrylate (PMMA) |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C                        |
| Mercury content                            | 0.0 mg                        |

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                     | IP44                        |
| Protection class IK (shock resistance) | IK03                        |
| Dimmable                               | No                          |
| Mounting type                          | Surface                     |
| Mounting location                      | Wall                        |
| With light source                      | Yes                         |
| Replaceable light source               | No                          |

Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 30000 h <sup>1)</sup> |
| Number of switching cycles | 15000                 |

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

Emergency lighting

|                                  |      |
|----------------------------------|------|
| Type of emergency operation test | None |
|----------------------------------|------|

Certificates & Standards

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Standards                                            | CE / UKCA       |
| Luminaire with limited surface temperature, "D sign" | No              |
| Ball shot safe                                       | 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.
- 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.

DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                         |
|------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------|
|  | User instruction / safety instructions | Orbis Essential IP44                  |
|  | Declarations of conformity             | CE Declaration Orbis Essential IP44   |
|  | Declarations of conformity UKCA        | UKCA Declaration Orbis Essential IP44 |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4058075854987 | Folding box<br>1             | 58 mm x 238 mm x 240 mm              | 612.00 g     | 3.31 dm³  |
| 4058075854994 | Shipping box<br>10           | 685 mm x 255 mm x 265 mm             | 5370.00 g    | 46.29 dm³ |

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.