

# PRODUCT DATASHEET

## Essential Orbis 400mm 24W 830 White

Essential Orbis | LED ceiling luminaire with plastic ring



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### Areas of application

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

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### Product benefits

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

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### Product features

- Ceiling luminaire with advanced LED technology
- Color temperature: 3,000 K
- Lifetime up to 30,000 h
- Type of protection: IP20



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**TECHNICAL DATA****Electrical data**

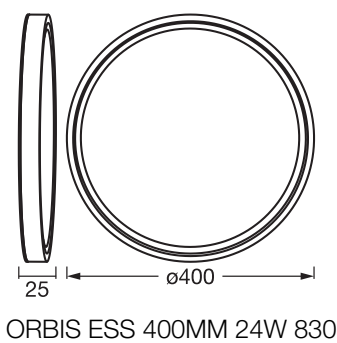
|                                                             |               |
|-------------------------------------------------------------|---------------|
| Nominal wattage                                             | 24.00 W       |
| Nominal voltage                                             | 220...240 V   |
| Mains frequency                                             | 50...60 Hz    |
| Nominal current                                             | 220.000 mA    |
| Inrush current                                              | 1.1 A         |
| Inrush current time $T_{h50}$                               | 158 $\mu$ s   |
| Max. number of luminaires per miniature circuit breaker B16 | 43            |
| Max. number of luminaires per miniature circuit breaker C10 | 45            |
| Max. number of luminaires per miniature circuit breaker C16 | 72            |
| Power factor $\lambda$                                      | > 0.5         |
| Total harmonic distortion                                   | 58.60 %       |
| Protection class                                            | II            |
| Operating mode                                              | Mains voltage |

**Photometrical data**

|                                                |                    |
|------------------------------------------------|--------------------|
| Luminous flux                                  | 2000 lm            |
| Total luminous flux of contained light sources | 2600               |
| Luminous efficacy                              | 83 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)                | <0.5               |
| Photobiological safety group acc. to EN62778   | RG0                |
| Beam angle                                     | 115 °              |

**Dimensions & Weight**

|                |           |
|----------------|-----------|
| Diameter       | 400.00 mm |
| Height         | 25.00 mm  |
| Product weight | 1050.00 g |



Materials & Colors

|                                            |                                       |
|--------------------------------------------|---------------------------------------|
| Product color                              | White                                 |
| Housing color                              | White                                 |
| Body material                              | Acrylonitrile butadiene styrene (ABS) |
| Cover material                             | Polystyrene (PS)                      |
| 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, 2-Pole (L, N) |
| Type of protection                     | IP20                    |
| 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.

### DOWNLOAD DATA

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

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854621406 | Bundle<br>1                  | 25 mm x 400 mm x 400 mm              | 1058.00 g    | 4.00 dm <sup>3</sup>  |
| 4099854621413 | Shipping box<br>10           | 455 mm x 425 mm x 415 mm             | 11782.00 g   | 80.25 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.