

# PRODUCT DATASHEET

## Planon Frameless Round 450mm 28W 830 White

PLANON™ Frameless | Frameless panel luminaires for wall and ceiling mounting



### Areas of application

- Indoor applications
- Decorative domestic lighting
- Wall and ceiling surface mounting
- Offices
- Living rooms

### Product benefits

- Homogenous light distribution
- Easy and quick installation
- Slim and sleek design

### Product features

- Ceiling luminaire with advanced LED technology
- Aluminum housing, frosted PMMA diffuser
- Color temperature: 3,000 K
- Available in square, rectangular and round form



## TECHNICAL DATA

### Electrical data

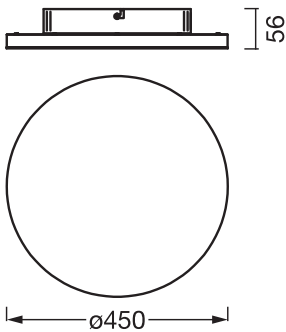
|                                                             |               |
|-------------------------------------------------------------|---------------|
| Nominal wattage                                             | 28.00 W       |
| Nominal voltage                                             | 220...240 V   |
| Mains frequency                                             | 50...60 Hz    |
| Nominal current                                             | 135.000 mA    |
| Inrush current                                              | 0.1 A         |
| Inrush current time $T_{h50}$                               | 380 $\mu$ s   |
| Max. number of luminaires per miniature circuit breaker B16 | 23            |
| Max. number of luminaires per miniature circuit breaker C10 | 23            |
| Max. number of luminaires per miniature circuit breaker C16 | 36            |
| Power factor $\lambda$                                      | > 0.90        |
| Total harmonic distortion                                   | < 20 %        |
| Protection class                                            | II            |
| Operating mode                                              | Mains voltage |

### Photometrical data

|                                                |                           |
|------------------------------------------------|---------------------------|
| Luminous flux                                  | 2700 lm                   |
| Total luminous flux of contained light sources | 3500 lm                   |
| Luminous efficacy                              | 96 lm/W                   |
| Color temperature                              | 3000 K                    |
| Light color (designation)                      | Warm White                |
| Color rendering index Ra                       | > 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   | RG1                       |
| Beam angle                                     | 120 °                     |

### Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 450.00 mm |
| Height         | 56.00 mm  |
| Product weight | 2480.00 g |



PLANON FRAMELESS RD 450  
28W 830

Materials & Colors

|                                            |                  |
|--------------------------------------------|------------------|
| Product color                              | White            |
| Housing color                              | White            |
| Body material                              | Aluminum         |
| Cover material                             | Polystyrene (PS) |
| 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, 2-Pole (L, N) |
| Type of protection                     | IP20                    |
| Protection class IK (shock resistance) | IK02                    |
| Dimmable                               | No                      |
| Mounting type                          | Surface                 |
| Mounting location                      | Ceiling                 |
| Application environment                | Indoor                  |
| With light source                      | Yes                     |
| Replaceable light source               | No                      |

Lifespan

|                           |                       |
|---------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C | 25000 h <sup>1)</sup> |
|---------------------------|-----------------------|

1) 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

- Complete mounting and connecting accessories included

## Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.
- Check wall-ceiling for suitability. If uncertain, seek professional advice.

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name           |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------|
|  | User instruction / safety instructions | PLANON FRAMELESS RD 830 |
|  | Declarations of conformity             | DECOR LUM PLANON        |
|  | Declarations of conformity UKCA        | DECOR LUM PLANON        |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854291128 | Folding box<br>1             | 64 mm x 472 mm x 475 mm              | 2799.00 g    | 14.35 dm <sup>3</sup> |
| 4099854291135 | Shipping box<br>4            | 485 mm x 270 mm x 498 mm             | 12115.00 g   | 65.21 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.