

# PRODUCT DATASHEET

## SF CIRCULAR 400 24 W 4000 K IP44 WT

SURFACE CIRCULAR 400 | Wall and ceiling luminaire with IP44



### Areas of application

- Corridors
- Stairways
- Bathrooms
- Foyers

### Product benefits

- Indoor luminaire with high luminous efficacy
- Energy savings of up to 55 % compared to luminaires that use CFL
- Easy and quick installation
- Very homogenous light
- 3 years guarantee

### Product features

- Type of protection: IP44 (ceiling mounting), IP20 (wall mounting)
- Impact resistance: IK03
- Metal housing, PMMA cover
- Ambient temperature in operation: -20...+40 °C
- Indoor use only, not suitable for outdoor use





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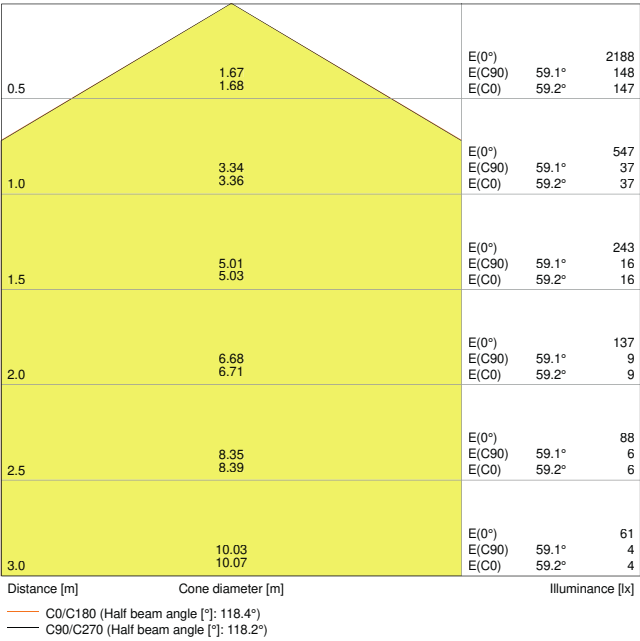
## TECHNICAL DATA

### Electrical data

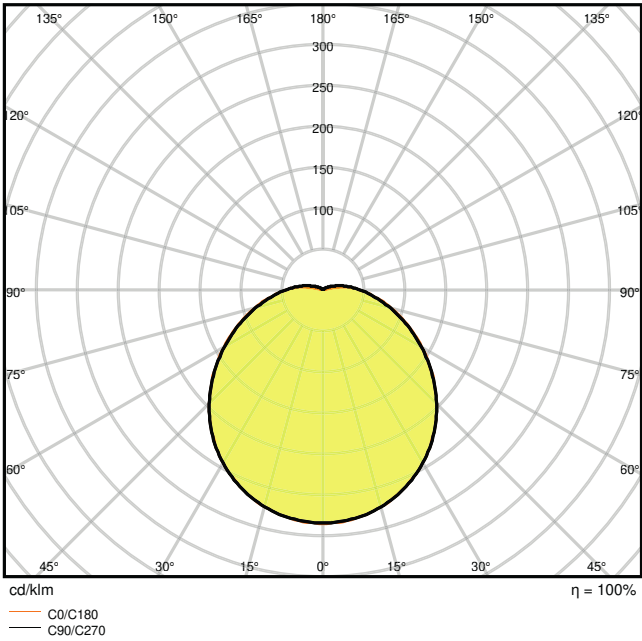
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 24.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 190 mA                |
| Inrush current                                              | 15.0 A                |
| Inrush current time $T_{h50}$                               | 200 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 30                    |
| Max. number of luminaires per miniature circuit breaker C10 | 25                    |
| Max. number of luminaires per miniature circuit breaker C16 | 41                    |
| Power factor $\lambda$                                      | > 0.5                 |
| Total harmonic distortion                                   | < 120 %               |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |

### Photometrical data

|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 1920 lm                   |
| Luminous efficacy                            | 80 lm/W                   |
| Color temperature                            | 4000 K                    |
| Light color (designation)                    | Cool White                |
| Color rendering index Ra                     | > 80                      |
| Standard deviation of color matching         | $\leq 5$ sdc <sub>m</sub> |
| Low flicker                                  | Yes                       |
| Photobiological safety group acc. to EN62778 | RG0                       |
| Beam angle                                   | 120 °                     |



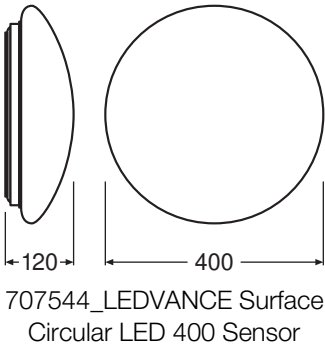
Surface-C LED 400 24W 4000K



Surface-C LED 400 24W 4000K

Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 400.00 mm |
| Height         | 120.00 mm |
| Product weight | 708.00 g  |



Materials & Colors

|               |       |
|---------------|-------|
| Product color | White |
| Housing color | White |

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Body material                              | Steel                         |
| Cover material                             | Polymethylmethacrylate (PMMA) |
| Light emitting surface material            | PMMA                          |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C                        |

### Application & Mounting

|                                        |                        |
|----------------------------------------|------------------------|
| Ambient temperature range              | -20...+40 °C           |
| Temperature range at storage           | -25...+70 °C           |
| Type of connection                     | Screw terminal, 3-Pole |
| Type of protection                     | IP44                   |
| Protection class IK (shock resistance) | IK03                   |
| Dimmable                               | No                     |
| Mounting type                          | Surface                |
| Mounting location                      | Ceiling / Wall         |
| Application environment                | Indoor                 |
| Replaceable light source               | No                     |

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 30000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 22000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 22000 h               |
| Lifespan L90/B10 at 25 °C  | 15000 h               |
| Number of switching cycles | 100000                |

<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 | 172 mA |
|----------------|--------|

### Certificates & Standards

|                                  |                         |
|----------------------------------|-------------------------|
| Standards                        | CE / CB / TÜV SÜD / EAC |
| Ball shot safe                   | No                      |
| Replaceable light source (EPREL) | Not replaceable         |

### EQUIPMENT / ACCESSORIES

– Replacement cover optional available

## 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.

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                                              |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------|
|    | User instruction / safety instructions | SURFACE CIRCULAR                                           |
|    | On-Pack-Info                           | Legal Insert Surface                                       |
|    | Declarations of conformity             | Attestation-of-Conformity SF Circular TÜV                  |
|    | Declarations of conformity             | EU Declaration of Conformity SF Circular 350 400 IP44 LEDV |
| Photometric and lighting design files                                              |                                        | Document name                                              |
|  | IES file (IES)                         | Surface-C LED 400 24W 4000K                                |
|  | LDT file (Eulumdat)                    | Surface-C LED 400 24W 4000K                                |
|  | ULD file (DIALux)                      | SURFACECIRCULAR40024W4000KIP44WT                           |
|  | UGR file (UGR table)                   | Surface-C LED 400 24W 4000K                                |
|  | Light distribution curve type cone     | Surface-C LED 400 24W 4000K                                |
|  | Light distribution curve type polar    | Surface-C LED 400 24W 4000K                                |
| Tender texts                                                                       |                                        | Document name                                              |
|  | Tender documents                       | SURFACE CIRCULAR 400 24 W 4000 K IP44 WT-EN                |

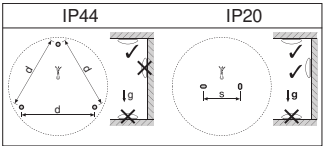
## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075080072 | Folding box<br>1             | 130 mm x 440 mm x 440 mm             | 1090.00 g    | 25.17 dm <sup>3</sup> |

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                 |
|---------------|------------------------------|--------------------------------------|--------------|------------------------|
| 4058075080089 | Shipping box<br>5            | 665 mm x 455 mm x 460 mm             | 6756.00 g    | 139.18 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.

ADDITIONAL CATALOG INFORMATION



References / Links

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

DISCLAIMER

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