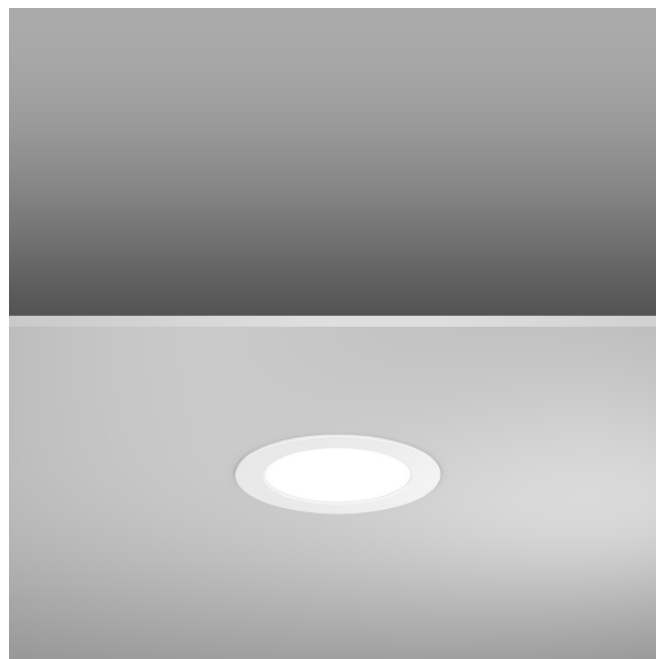
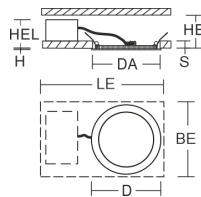


# Toledo Flat Round

672229.002 | Combined luminaires for escape route illumination



Recessed downlights  
4051859175308  
LED  
D 190, H 2, HEL 31-51



Ultra thin recessed LED downlight. For escape route illumination. Housing: die-cast aluminium, powder-coated. Lightguide and diffuser made of non-yellowing plastic (PMMA). Diffuser opal matt plastic. Ceiling installation with spring system. Including separate LED converter with connecting cable 250 mm. Compatible with DC, ideal for central battery systems. External driver with simple plug-in locking system.

## Lighting technology

|                                |         |
|--------------------------------|---------|
| Colour temperature             | 3.000 K |
| Rated luminous flux            | 780 lm  |
| Glare evaluation UGR (4H 8H) 1 | 26,4    |
| Beam angle Down 1              | 111°    |
| Beam angle combined Up 1       | 0°      |

## Electrical

|                                          |                                |
|------------------------------------------|--------------------------------|
| Control gear                             | Converter                      |
| Voltage                                  | 220 - 240 V / 0 Hz, 50 - 60 Hz |
| System power, emergency                  | 7,7 W                          |
| Luminaires on B10A fuse                  | 18                             |
| Luminaires on B16A fuse                  | 28                             |
| Inrush current / Inrush current duration | 15 A / 220 µs                  |
| System power                             | 7,7 W                          |
| Luminaire efficacy                       | 102 lm/W                       |
| Total harmonic distortion                | 10 %                           |
| Power factor                             | 0,95                           |

## Approbations

|                                  |                       |
|----------------------------------|-----------------------|
| Type of protection               | IP 20, IP 54          |
| Protection class                 | II                    |
| Impact resistance                | IK03 (0,35 Joule)     |
| Safety marks                     | F-mark                |
| ULOR                             | 0                     |
| Conformity mark                  | CE, EAC               |
| CIE Flux Code / CEN Flux Code    | 47 79 96 100 100      |
| Energieeffizienzklasse 2019/2015 | D                     |
| Maintained power                 | => -20 °C ... + 30 °C |
| Non-maintained power mode        | => 5 °C ... + 40 °C   |

## Emergency lighting

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| Emergency luminaire            | Central battery system                          |
| Battery Option                 | without battery                                 |
| Operating mode                 | Maintained power mode/Non-maintained power mode |
| Monitoring                     | Power circuit monitored                         |
| Luminaire flux Mains/Emergency | 780 / 780 lm                                    |

## Colour

|        |       |
|--------|-------|
| Colour | white |
|--------|-------|

## Dimensions

|                              |          |
|------------------------------|----------|
| Diameter D                   | 190 mm   |
| Height H                     | 2,5 mm   |
| Cut-out diameter DA          | 170 mm   |
| Recess height HE             | 35 mm    |
| Luminaire: recess height HEL | 31-51 mm |
| Ceiling thickness S          | 1-20 mm  |
| Weight                       | 413 g    |

## Lamp

|                                              |              |
|----------------------------------------------|--------------|
| Lamp                                         | LED          |
| Colour temperature                           | 3000K        |
| Colour rendering index (CRI)                 | 80           |
| Photobiological safety according to EN 62471 | Risk group 0 |