

Carol

190 IP43 10W/840 DA GLO WH

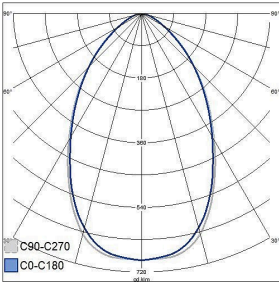
Downlight

A downlight range designed for corridors and lobbies in public buildings. An extensive, high-quality selection that offers a choice of three different sizes. Integrated LED, colour temperatures of 3000 K and 4000 K. Available as on/off and Dali models. Glossy reflector. Recessed mounting on a ceiling.

Carol Downlight 10W 4000K 1000lm Beam angle Wide beam 40-80°; Dim DALI; IP43; Protection cl. II; LED not exchangeable; CRI>80; SDCM3; Suitable for through wiring; 5x2.5mm²; Housing al; Colour wh; Cover Glass opal

Stocked: No

| 190 IP43 10W/840 DA GLO WH |         |    |                |
|----------------------------|---------|----|----------------|
| PRODUCT CODE               | CODE    | KG | PRODUCT FAMILY |
| 4146573                    | 4146573 | 1  | Carol          |



## 190 IP43 10W/840 DA GLO WH

EC001744 Downlight / spot luminaire / floodlight

| Mounting                                                                         |                             |
|----------------------------------------------------------------------------------|-----------------------------|
| Suitable for surface mounting                                                    | No                          |
| Suitable for recessed mounting                                                   | Yes                         |
| Suitable for wall mounting                                                       | No                          |
| Suitable for suspended mounting                                                  | No                          |
| Suitable for ceiling mounting                                                    | Yes                         |
| Suitable for traverse mounting                                                   | No                          |
| Suitable for pedestal/floor mounting                                             | No                          |
| Suitable for light-track mounting                                                | No                          |
| Suitable for clamp-mounting                                                      | No                          |
| Suitable for low voltage cable system                                            | No                          |
| Degree of protection (IP)                                                        | IP43                        |
| Degree of protection (IP), rear side                                             | IP20                        |
| Degree of protection (IP), front side                                            | IP43                        |
| Emergency function monitoring system                                             | None                        |
| Type of wiring                                                                   | Suitable for through wiring |
| Number of poles                                                                  | 5                           |
| Conductor cross section (mm <sup>2</sup> )                                       | 2.5 mm <sup>2</sup>         |
| Connectable conductor cross section (min) (mm <sup>2</sup> )                     | 0.75 mm <sup>2</sup>        |
| Connectable conductor cross section (max) (mm <sup>2</sup> )                     | 2.5 mm <sup>2</sup>         |
| Connection type                                                                  | Screwless terminal          |
| Luminaire with limited surface temperature, class "D" in acc. with EN 60598-2-24 | No                          |
| Max. number of luminaires per miniature circuit breaker B16                      | 80                          |
| Max. number of luminaires per miniature circuit breaker C16                      | 136                         |
| Fit for workplace acc. EN 12464-1                                                | No                          |
| Luminaire may be covered with thermally insulating material                      | No                          |

| Structure                                                                    |                      |
|------------------------------------------------------------------------------|----------------------|
| Adjustability                                                                | Not adjustable       |
| Lamp type                                                                    | LED not exchangeable |
| Light source included                                                        | Yes                  |
| Suitable for number of lamps                                                 | 1                    |
| Lamp holder                                                                  | Other                |
| Housing material                                                             | Aluminium            |
| Surface protection                                                           | Powder coating       |
| Housing colour                                                               | White                |
| Cover material                                                               | Glass opal           |
| Surface brushed                                                              | No                   |
| Control gear included                                                        | Yes                  |
| Exchangeable control gear                                                    | Yes                  |
| Reflector                                                                    | High-gloss           |
| Reflector colour                                                             | Silver               |
| Energy efficiency class of light source according to EU regulation 2019/2015 | D                    |
| Containing product according to 2019/2020/EU                                 | Yes                  |
| Emergency power supply system                                                | None                 |
| Emergency power supply integrated                                            | No                   |
| Filament test according to IEC 60695-2-11                                    | 650 °C - 30 s        |

| Dimming and control                       |     |
|-------------------------------------------|-----|
| With movement sensor                      | No  |
| With presence indicator                   | No  |
| With light sensor                         | No  |
| Dimmable                                  | Yes |
| Dimming 0-10 V                            | No  |
| Dimming 1-10 V                            | No  |
| Dimming DALI-2                            | No  |
| Dimming DALI                              | Yes |
| Dimming DMX                               | No  |
| Dimming DSI                               | No  |
| Dimming potentiometer (integrated)        | No  |
| Dimming LineSwitch                        | No  |
| Dimming manufacturer's proprietary system | No  |
| Dimming mains voltage modulation          | No  |
| Dimming trailing edge                     | No  |
| Dimming leading edge                      | No  |
| Dimming programmable                      | Yes |
| Dimming RF                                | No  |
| Dimming Sine Wave Reduction               | No  |
| Dimming Touch and Dim                     | No  |
| Dimming Zigbee                            | No  |
| Dimming with push-button                  | No  |
| No dimming function                       | No  |
| Constant luminous flux control            | No  |
| IFTTT support available                   | No  |
| Compatible with Apple HomeKit             | No  |
| Bluetooth operated                        | No  |
| Compatible with Google Assistant          | No  |
| Compatible with Casambi                   | No  |
| Compatible with Amazon Alexa              | No  |

| Electrotechnical data                   |                                                      |
|-----------------------------------------|------------------------------------------------------|
| Voltage type                            | AC                                                   |
| Nominal voltage (min) (V)               | 220 V                                                |
| Nominal voltage (max) (V)               | 240 V                                                |
| Nominal current (min) (mA)              | 250 mA                                               |
| Nominal current (max) (mA)              | 250 mA                                               |
| Type of control gear                    | LED<br>operating<br>device<br>current-<br>controlled |
| Total harmonic distortion (THD) (%)     | 10 %                                                 |
| Total harmonic distortion               | 10 THD                                               |
| Protection class according to IEC 61140 | II                                                   |
| Suitable for lamp power (min) (W)       | 10 W                                                 |
| Suitable for lamp power (max) (W)       | 10 W                                                 |
| Maximum system power (W)                | 10 W                                                 |
| Luminaire efficacy (min) (lm/W)         | 100 lm/W                                             |
| Luminaire efficacy (max) (lm/W)         | 100 lm/W                                             |
| Power factor                            | 0.9                                                  |
| Luminaire efficacy (lm/W)               | 100 lm/W                                             |

| Photometric data                                          |                          |
|-----------------------------------------------------------|--------------------------|
| Light distributor                                         | Reflector                |
| Light sharing                                             | Symmetric                |
| Beam angle                                                | Wide beam<br>40-80°      |
| Light outlet                                              | Direct                   |
| Colour of light (alphanumeric)                            | White                    |
| Colour temperature (min) (K)                              | 4000 K                   |
| Colour temperature (max) (K)                              | 4000 K                   |
| Colour temperature switchable                             | No                       |
| Colour rendering index (CRI/Ra)                           | 80-89                    |
| Luminous flux (min) (lm)                                  | 1000 lm                  |
| Luminous flux (max) (lm)                                  | 1000 lm                  |
| Effective luminous flux (lm)                              | 1000 lm                  |
| Rated luminous flux according to IEC 62722-2-1 (min) (lm) | 1000 lm                  |
| Rated luminous flux according to IEC 62722-2-1 (max) (lm) | 1000 lm                  |
| Lumen setting adjustable                                  | Continuously<br>variable |
| Flickering value Pst LM                                   | 5                        |
| Beam angle adjustable                                     | No                       |
| Stroboscope effect value SVM                              | 1                        |
| Photobiological safety according to EN 62471              | RG0                      |
| Colour consistency (McAdam ellipse)                       | SDCM3                    |

| Lifetime and capacity                                                           |          |
|---------------------------------------------------------------------------------|----------|
| Rated life time L70/B50 at 25 °C (h)                                            | 100000 h |
| Rated life time L80/B50 at 25 °C                                                | 80000 h  |
| Lumen maintenance at median useful life of 35,000 hrs at 25 °C ambient (tq) (%) | 90 %     |
| Lumen maintenance at median useful life of 50,000 hrs at 25 °C ambient (tq) (%) | 85 %     |
| Lumen maintenance at median useful life of 100,000 hr at 25 °C ambient (tq)     | 70 %     |
| Failure rate at median useful life of 35,000 hrs at 25 °C ambient (tq) (%)      | 5 %      |
| Failure rate at median useful life of 50,000 hrs at 25 °C ambient (tq) (%)      | 10 %     |
| Failure rate at median useful life of 100,000 hrs at 25 °C ambient (tq)         | 10 %     |
| Rated ambient temperature acc. IEC62722-2-1 (min) (°C)                          | 0 °C     |
| Rated ambient temperature acc. IEC62722-2-1 (max) (°C)                          | 25 °C    |

| Measurements               |        |
|----------------------------|--------|
| Length (mm)                | 190 mm |
| Width (mm)                 | 190 mm |
| Height/depth (mm)          | 78 mm  |
| Outer diameter (mm)        | 190 mm |
| Built-in length (mm)       | 178 mm |
| Built-in width (mm)        | 178 mm |
| Built-in height/depth (mm) | 200 mm |
| Recess diameter (min) (mm) | 178 mm |
| Recess diameter (max) (mm) | 190 mm |