

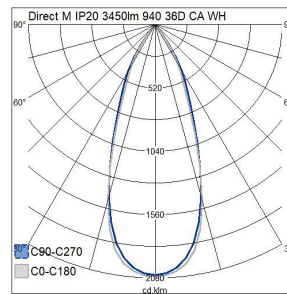


## Direct M

### IP20 3450lm 940 36D CA WH

Direct M is an energy-efficient and adjustable spotlight with a long lifespan. Its compact size, high-quality light, and excellent color rendering make it an excellent choice for public spaces. Applications include stores, shops, hotels and restaurants. Direct is installed on a track, making its installation easy and flexible. The luminaire has an almost invisible driver integrated directly into the track adapter. The Direct M model is particularly well-suited for store lighting. Its light output and adjustability offer numerous options for illuminating store spaces; the luminaire is easy to move and redirect as needed. Adjusting the direction of the light provides options for illuminating different spaces; the luminaire is easy to move and direct as needed.

Direct M Spotlight 26W 4000K 3450lm Beam angle Medium beam 20-40°; Dim programmable; Casambi; IP20; IK02; Protection cl. II; L70B50 100000h; LED not exchangeable; Lamp included; CRI>90; SDCM3; Ending; 5x0.75mm<sup>2</sup>; Housing al; Colour wh; Cover Glass transparent; C16 max. 64



| IP20 3450lm 940 36D CA WH |           |      |                |
|---------------------------|-----------|------|----------------|
| PRODUCT CODE              | CODE      | KG   | PRODUCT FAMILY |
| A1DIRK-CA                 | A1DIRK-CA | 0.48 | Direct M       |

| Mounting   |                         |
|--|-------------------------|
| Suitable for surface mounting  | No                      |
| Suitable for recessed mounting   | No                      |
| Suitable for wall mounting   | No                      |
| Suitable for suspended mounting  | No                      |
| Suitable for ceiling mounting  | No                      |
| Suitable for traverse mounting   | No                      |
| Suitable for pedestal/floor mounting   | No                      |
| Suitable for light-track mounting  | Yes                     |
| Suitable for clamp-mounting  | No                      |
| Suitable for low voltage cable system  | No                      |
| Degree of protection (IP)  | IP20                    |
| Degree of protection (IP), rear side   | IP20                    |
| Degree of protection (IP), front side  | IP20                    |
| Impact strength  | IK02                    |
| Emergency function monitoring system   | None                    |
| Type of wiring   | Ending                  |
| Number of poles  | 5                       |
| Conductor cross section (mm <sup>2</sup> )                                       | 0.75                    |
| Connectable conductor cross section (min) (mm <sup>2</sup> )                     | 1.5                     |
| Connectable conductor cross section (max) (mm <sup>2</sup> )                     | 2.5                     |
| Connection type  | Busbar adapter          |
| Luminaire with limited surface temperature, class "D" in acc. with EN 60598-2-24 | No                      |
| Max. number of luminaires per miniature circuit breaker B16                      | 64                      |
| Max. number of luminaires per miniature circuit breaker C16                      | 64                      |
| Fit for workplace acc. EN 12464-1  | No                      |
| Luminaire may be covered with thermally insulating material                      | -                       |
| Quantity of luminaires for MCB C16:  | 64                      |
| Quantity of luminaires for MCB C10:  | 40                      |
| Quantity of luminaires for MCB B16:  | 64                      |
| Quantity of luminaires for MCB B10:  | 40                      |
| Structure  |                         |
| Adjustability  | Rotating and swivelling |
| 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 transparent       |
| Surface brushed  | No                      |
| Control gear included  | Yes                     |
| Exchangeable control gear  | No                      |
| Reflector  | Matt                    |
| 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                              | No      |
| 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                        | Yes     |
| Compatible with Google Assistant          | No      |
| Compatible with Casambi                   | Yes     |
| Compatible with Amazon Alexa              | No      |
| Wireless lighting control                 | Casambi |

| Photometric data  |                       |
|---|-----------------------|
| Light distributor   | Reflector             |
| Light sharing   | Symmetric             |
| Beam angle  | Medium beam<br>20-40° |
| Light outlet  | Direct                |
| Colour of light (alphanumeric)                            | White                 |
| Colour temperature (min) (K)                              | 4000                  |
| Colour temperature (max) (K)                              | 4000                  |
| Colour temperature switchable                             | No                    |
| Colour rendering index (CRI/Ra)                           | 90-100                |
| Luminous flux (min) (lm)                                  | 3450                  |
| Luminous flux (max) (lm)                                  | 3450                  |
| Effective luminous flux (lm)                              | 3450                  |
| Rated luminous flux according to IEC 62722-2-1 (min) (lm) | 3450                  |
| Rated luminous flux according to IEC 62722-2-1 (max) (lm) | 3450                  |
| Lumen setting adjustable                                  | No                    |
| Flickering value Pst LM                                   | 1                     |
| Beam angle adjustable                                     | No                    |
| Stroboscope effect value SVM                              | 0.4                   |
| Photobiological safety according to EN 62471              | RG0                   |
| Colour consistency (McAdam ellipse)                       | SDCM3                 |
| Unified Glare Rating (UGR)                                | 21                    |

| Lifetime and capacity   |        |
|---|--------|
| Rated life time L70/B50 at 25 °C (h)  | 100000 |
| Rated life time L80/B50 at 25 °C  | 100000 |
| Lumen maintenance at median useful life of 35,000 hrs at 25 °C ambient (tq) (%) | 95     |
| Lumen maintenance at median useful life of 50,000 hrs at 25 °C ambient (tq) (%) | 90     |
| Lumen maintenance at median useful life of 100,000 hr at 25 °C ambient (tq)     | 80     |
| 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) (%)      | 5      |
| 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      |
| Rated ambient temperature acc. IEC62722-2-1 (max) (°C)                          | 25     |

| Measurements                   |      |
|--------------------------------|------|
| Length (mm)                    | 85   |
| Width (mm)                     | 85   |
| Height/depth (mm)              | 100  |
| Outer diameter (mm)            | 85   |
| Installation height (min) (mm) | 3000 |
| Installation height (max) (mm) | 6000 |

| Electrotechnical data                   |   |
|---|---|
| Voltage type                            | AC/DC                                   |
| Nominal voltage (min) (V)               | 220                                     |
| Nominal voltage (max) (V)               | 240                                     |
| Nominal current (min) (mA)              | 700                                     |
| Nominal current (max) (mA)              | 700                                     |
| Type of control gear                    | LED operating device current-controlled |
| Total harmonic distortion (THD) (%)     | 10                                      |
| Total harmonic distortion               | 20                                      |
| Protection class according to IEC 61140 | II                                      |
| Suitable for lamp power (min) (W)       | 26                                      |
| Suitable for lamp power (max) (W)       | 26                                      |
| Maximum system power (W)                | 26                                      |
| Luminaire efficacy (min) (lm/W)         | 133                                     |
| Luminaire efficacy (max) (lm/W)         | 133                                     |
| Power factor                            | 0.9                                     |
| Luminaire efficacy (lm/W)               | 123                                     |