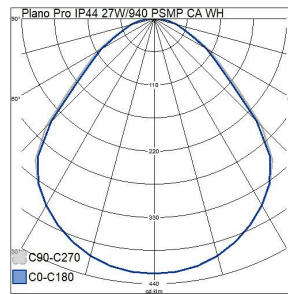# Plano Pro
## IP44 27W/940 PSMP CA WH

Plano Pro is a new-generation, energy-efficient and versatile modular luminaire with a huge range of applications. The luminaire's excellent colour rendering index, UGR value (<19) and IP44 class make it an ideal choice for almost any application. Thanks to its energy-efficiency, Plano Pro is suitable for public spaces such as corridors, lobbies and open-plan offices. Because of its low UGR value, the luminaire can be used in schools, day-care centres and spaces where computers are used. The bottom part of the luminaire has an IP44 classification, making it suitable for dusty and humid spaces. A variety of installation accessories are available for the luminaire, including cover sheets for the round light opening and accessories for surface and recessed mounting. The luminaire is also available as a Tunable White version.

Plano Pro Modular luminaire 27W 4000K 3500lm Dim programmable; Casambi; IP44; IK02; Protection cl. II; L70B50 100000h; LED not exchangeable; Lamp included; CRI>90; SDCM3; Suitable for through wiring; 3x2.5mm²; Housing al; Colour wh; Cover Plastic, structured; C16 max. 38



Plano Pro IP44 27W/940 PSMP CA WH

C90-C270
C0-C180

| IP44 27W/940 PSMP CA WH | | | |
|---|---|---|---|
| PRODUCT CODE | CODE | KG | PRODUCT FAMILY |
| A2PRAB-CA | A2PRAB-CA | | Plano Pro |

## IP44 27W/940 PSMP CA WH
EC002892

### Mounting

| | |
|---|---|
| Suitable for wall mounting | No |
| Suitable for suspended mounting | No |
| Suitable for ceiling mounting | Yes |
| Suitable for recessed mounting | Yes |
| Suitable for surface mounting | Yes |
| Suitable for light line configuration | No |
| Fit for workplace acc. EN 12464-1 | Yes |
| Degree of protection (IP) | IP44 |
| Degree of protection (IP), rear side | IP20 |
| Degree of protection (IP), front side | IP44 |
| Max. number of luminaires per miniature circuit breaker C10 (MCB) | 23 |
| Max. number of luminaires per miniature circuit breaker B16 | 23 |
| Max. number of luminaires per miniature circuit breaker C16 | 38 |
| Impact strength | IK02 |
| Luminaire with limited surface temperature, class "D" in acc. with EN 60598-2-24 | Yes |
| Suitable for emergency lighting | No |
| Luminaire may be covered with thermally insulating material | No |
| Type of wiring | Suitable for through wiring |
| Number of poles | 3 |
| Conductor cross section (mm²) | 2.5 |
| Connection type | Screwless terminal |
| Connectable conductor cross section (min) (mm²) | 1.5 |
| Connectable conductor cross section (max) (mm²) | 2.5 |
| Quantity of luminaires for MCB C16: | 38 |
| Quantity of luminaires for MCB C10: | 23 |
| Quantity of luminaires for MCB B16: | 23 |
| Quantity of luminaires for MCB B10: | 14 |

### Structure

| | |
|---|---|
| Lamp type | LED not exchangeable |
| With lamp | Yes |
| Suitable for number of lamps | 1 |
| Lamp holder | Other |
| Housing material | Aluminium |
| Housing surface protection | Powder coating |
| Housing colour | White |
| Cover material | Plastic, structured |
| Type of grid | None |
| Control gear included | Yes |
| Exchangeable control gear | Yes |
| Energy efficiency class of light source according to EU regulation 2019/2015 | D |
| Containing product according to 2019/2020/EU | Yes |
| Emergency power supply integrated | No |
| With air slots | No |
| Filament test according to IEC 60695-2-11 | 650 °C - 30 s |

### Dimming and control

| | |
|---|---|
| Dimmable | Yes |
| Dimming 0-10 V | No |
| Dimming 1-10 V | No |
| Dimming DALI | No |
| Dimming DALI-2 | No |
| Dimming DMX | No |
| Dimming DSI | No |
| Dimming LineSwitch | No |
| Dimming manufacturer's proprietary system | No |
| Dimming mains voltage modulation | No |
| Dimming phase cut-off | No |
| Dimming phase cut-on | No |
| Dimming programmable | Yes |
| Dimming potentiometer (integrated) | No |
| 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 |
| With movement sensor | No |
| With light sensor | No |
| Constant luminous flux control | Yes |
| Bluetooth operated | Yes |
| Compatible with Casambi | Yes |
| Compatible with Apple HomeKit | No |
| Compatible with Google Assistant | No |
| Compatible with Amazon Alexa | No |
| IFTTT support available | No |

### Photometric data

| | |
|---|---|
| Light distributor | Diffuser lens/optic/panel |
| Light sharing | Symmetric |
| Beam angle | Open beam |
| Colour consistency (McAdam ellipse) | SDCM3 |
| Light outlet | Direct |
| Colour of light (alphanumeric) | White |
| Effective luminous flux (lm) | 3500 |
| Colour temperature (min) (K) | 4000 |
| Colour temperature (max) (K) | 4000 |
| Flickering value Pst LM | 1 |
| Colour rendering index CRI | 90-100 |
| Stroboscope effect value SVM | 0.4 |
| Photobiological safety according to EN 62471 | RG0 |
| Unified Glare Rating (UGR) | 19 |
| Colour temperature switchable | No |
| Lumen setting adjustable | No |
| Beam angle adjustable | No |

### Lifetime and capacity

| | |
|---|---|
| Rated life time L70/B50 at 25 °C (h) | 100000 |
| Rated life time L80/B50 at 25 °C | 80000 |
| 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 |
| 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 |
| Rated ambient temperature acc. IEC62722-2-1 (min) (°C) | 0 |
| Rated ambient temperature acc. IEC62722-2-1 (max) (°C) | 25 |

## Measurements

| | |
|---|---|
| Width (mm) | 595 |
| Height/depth (mm) | 32 |
| Length (mm) | 595 |
| Built-in length (mm) | 600 |
| Built-in width (mm) | 600 |
| Built-in height/depth (mm) | 80 |

## Electrotechnical data

| | |
|---|---|
| Voltage type | AC |
| 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 |
| Protection class according to IEC 61140 | II |
| Suitable for lamp power (min) (W) | 27 |
| Suitable for lamp power (max) (W) | 27 |
| Maximum system power (W) | 27 |
| Luminaire efficacy (lm/W) | 130 |
| Power factor | 0.9 |
| Total harmonic distortion | 5 |

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