

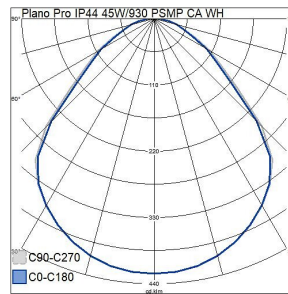


# Plano Pro

## IP44 45W/930 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 45W 3000K 5800lm Dim programmable; Casambi; IP44; IK02; Protection cl. II; L70B50 100000h; LED not exchangeable; Lamp included; CRI>90; SDCM3; Suitable for through wiring; 3x2.5mm<sup>2</sup>; Housing al; Colour wh; Cover Plastic, structured; C16 max. 38



| IP44 45W/930 PSMP CA WH |           |    |                |
|-------------------------|-----------|----|----------------|
| PRODUCT CODE            | CODE      | KG | PRODUCT FAMILY |
| A2PRAG-CA               | A2PRAG-CA |    | Plano Pro      |

| 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 (mm <sup>2</sup> )                                       | 2.5                         |
| Connection type  | Screwless terminal          |
| Connectable conductor cross section (min) (mm <sup>2</sup> )                     | 1.5                         |
| Connectable conductor cross section (max) (mm <sup>2</sup> )                     | 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)                 | 5800                      |
| Colour temperature (min) (K)                 | 3000                      |
| Colour temperature (max) (K)                 | 3000                      |
| 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)              | 1200                                    |
| Nominal current (max) (mA)              | 1200                                    |
| Type of control gear                    | LED operating device current-controlled |
| Protection class according to IEC 61140 | II                                      |
| Suitable for lamp power (min) (W)       | 45                                      |
| Suitable for lamp power (max) (W)       | 45                                      |
| Maximum system power (W)                | 45                                      |
| Luminaire efficacy (lm/W)               | 130                                     |
| Power factor                            | 0.9                                     |
| Total harmonic distortion               | 5                                       |