

# Plano Pro

IP44 31W/930 PSMP EU DIM WH

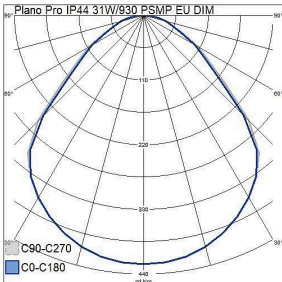
Modular luminaire

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 31W 3000K 4000lm Dim phase cut-on; IP44; IK02; Protection cl. II; L70B50 100000h; LED not exchangeable; Lamp included; CRI>90; SDCM3; Ending; 2x0.75mm²; Housing al; Colour wh; Cover Plastic, structured; C16 max. 27

Stocked: No

| IP44 31W/930 PSMP EU DIM WH |           |      |                |
|-----------------------------|-----------|------|----------------|
| PRODUCT CODE                | CODE      | KG   | PRODUCT FAMILY |
|                             | A2PRAE-EU | 1.35 | Plano Pro      |



## IP44 31W/930 PSMP EU DIM WH

EC002892 Ceiling / wall luminaire

| Mounting                                                                         |                      | Structure                                                                    |                                         |
|----------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------|-----------------------------------------|
| Suitable for wall mounting                                                       | No                   | With mounting material                                                       | Yes                                     |
| Suitable for suspended mounting                                                  | No                   | Lamp type                                                                    | LED not exchangeable                    |
| Suitable for ceiling mounting                                                    | Yes                  | Light source included                                                        | Yes                                     |
| Suitable for recessed mounting                                                   | Yes                  | Suitable for number of lamps                                                 | 1                                       |
| Suitable for surface mounting                                                    | Yes                  | Lamp holder                                                                  | Other                                   |
| Suitable for light line configuration                                            | No                   | Housing material                                                             | Aluminium                               |
| Suitable for clamp-mounting                                                      | No                   | Housing surface protection                                                   | Powder coating                          |
| Fit for workplace acc. EN 12464-1                                                | Yes                  | Housing colour                                                               | White                                   |
| Degree of protection (IP)                                                        | IP44                 | Cover material                                                               | Plastic, structured                     |
| Degree of protection (IP), rear side                                             | IP20                 | Type of grid                                                                 | None                                    |
| Degree of protection (IP), front side                                            | IP44                 | Control gear included                                                        | Yes                                     |
| Max. number of luminaires per miniature circuit breaker C10 (MCB)                | 16                   | Exchangeable control gear                                                    | Yes                                     |
| Max. number of luminaires per miniature circuit breaker B16                      | 16                   | Energy efficiency class of light source according to EU regulation 2019/2015 | D                                       |
| Max. number of luminaires per miniature circuit breaker C16                      | 27                   | Containing product according to 2019/2020/EU                                 | Yes                                     |
| Impact strength                                                                  | IK02                 | Emergency power supply system                                                | None                                    |
| Luminaire with limited surface temperature, class "D" in acc. with EN 60598-2-24 | Yes                  | Emergency power supply integrated                                            | No                                      |
| Suitable for emergency lighting                                                  | No                   | With switch                                                                  | No                                      |
| Emergency function monitoring system                                             | None                 | With air slots                                                               | No                                      |
| Luminaire may be covered with thermally insulating material                      | No                   | Filament test according to IEC 60695-2-11                                    | 650 °C - 30 s                           |
| Type of wiring                                                                   | Ending               | Electrotechnical data                                                        |                                         |
| Number of poles                                                                  | 2                    | Voltage type                                                                 | AC                                      |
| Conductor cross section (mm <sup>2</sup> )                                       | 0.75 mm <sup>2</sup> | Nominal voltage (min) (V)                                                    | 220 V                                   |
| Connection type                                                                  | Plug                 | Nominal voltage (max) (V)                                                    | 240 V                                   |
| Connectable conductor cross section (min) (mm <sup>2</sup> )                     | 1.5 mm <sup>2</sup>  | Nominal current (min) (mA)                                                   | 800 mA                                  |
| Connectable conductor cross section (max) (mm <sup>2</sup> )                     | 2.5 mm <sup>2</sup>  | Nominal current (max) (mA)                                                   | 800 mA                                  |
|                                                                                  |                      | Type of control gear                                                         | LED operating device current-controlled |
|                                                                                  |                      | Protection class according to IEC 61140                                      | II                                      |
|                                                                                  |                      | Suitable for lamp power (min) (W)                                            | 31 W                                    |
|                                                                                  |                      | Suitable for lamp power (max) (W)                                            | 31 W                                    |
|                                                                                  |                      | Luminaire efficacy (min) (lm/W)                                              | 130 lm/W                                |
|                                                                                  |                      | Luminaire efficacy (max) (lm/W)                                              | 130 lm/W                                |
|                                                                                  |                      | Maximum system power (W)                                                     | 31 W                                    |
|                                                                                  |                      | Luminaire efficacy (lm/W)                                                    | 130 lm/W                                |
|                                                                                  |                      | Power factor                                                                 | 0.9                                     |
|                                                                                  |                      | Total harmonic distortion (THD) (%)                                          | 20 %                                    |
|                                                                                  |                      | Total harmonic distortion                                                    | 20 THD                                  |

| 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 trailing edge                     | Yes |
| Dimming leading edge                      | Yes |
| Dimming programmable                      | No  |
| 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 presence indicator                   | No  |
| With movement sensor                      | No  |
| With light sensor                         | No  |
| Constant luminous flux control            | No  |
| Bluetooth operated                        | No  |
| Compatible with Casambi                   | No  |
| 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                    |
| Rated luminous flux according to IEC 62722-2-1 (min) (lm) | 4000 lm                   |
| Rated luminous flux according to IEC 62722-2-1 (max) (lm) | 4000 lm                   |
| Colour of light (alphanumeric)                            | White                     |
| Effective luminous flux (lm)                              | 4000 lm                   |
| Colour temperature (min) (K)                              | 3000 K                    |
| Colour temperature (max) (K)                              | 3000 K                    |
| Flickering value Pst LM                                   | 1                         |
| Colour rendering index (CRI/Ra)                           | 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 h |
| Rated life time L80/B50 at 25 °C                                                | 100000 h |
| 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 75,000 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 %     |
| Failure rate at median useful life of 75,000 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               |        |
|----------------------------|--------|
| Width (mm)                 | 595 mm |
| Height/depth (mm)          | 32 mm  |
| Length (mm)                | 595 mm |
| Built-in length (mm)       | 600 mm |
| Built-in width (mm)        | 600 mm |
| Built-in height/depth (mm) | 80 mm  |