Plano Pro

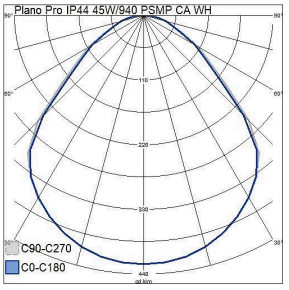
IP44 45W/940 PSMP CA WH

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 45W 4000K 5800lm 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



Stocked: No

IP44 45W/940 PSMP CA WH			
PRODUCT CODE	CODE	KG	PRODUCT FAMILY
4146853	4146853	1.35	Plano Pro

IP44 45W/940 PSMP CA WH

EC002892 Ceiling / wall luminaire

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
Suitable for clamp-mounting	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
Emergency function monitoring system	None
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 mm²
Connection type	Screwless terminal
Connectable conductor cross section (min) (mm²)	1.5 mm²
Connectable conductor cross section (max) (mm²)	2.5 mm²

Structure	
With mounting material	Yes
Lamp type	LED not exchangeable
Light source included	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 system	None
Emergency power supply integrated	No
With switch	No
With air slots	No
Filament test according to IEC 60695-2-11	650 °C - 30 s

Electrotechnical data	
Voltage type	AC
Nominal voltage (min) (V)	220 V
Nominal voltage (max) (V)	240 V
Nominal current (min) (mA)	1200 mA
Nominal current (max) (mA)	1200 mA
Type of control gear	LED operating device current-controlled
Protection class according to IEC 61140	II
Suitable for lamp power (min) (W)	45 W
Suitable for lamp power (max) (W)	45 W
Luminaire efficacy (min) (lm/W)	130 lm/W
Luminaire efficacy (max) (lm/W)	130 lm/W
Maximum system power (W)	45 W
Luminaire efficacy (lm/W)	130 lm/W
Power factor	0.9
Total harmonic distortion (THD) (%)	5 %
Total harmonic distortion	5 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	No
Dimming leading edge	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 presence indicator	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
Rated luminous flux according to IEC 62722-2- 1 (min) (lm)	5800 lm
Rated luminous flux according to IEC 62722-2- 1 (max) (lm)	5800 lm
Colour of light (alphanumeric)	White
Effective luminous flux (lm)	5800 lm
Colour temperature (min) (K)	4000 K
Colour temperature (max) (K)	4000 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