# **PHILIPS** Lighting



# **Maxos fusion**

# LL512X LED31S/840 PSD DA25W 7 WH

Maxos fusion Panel, 840 neutral white, Power supply unit with DALI interface, Double asymmetric optic wide beam, White

Maxos fusion is an adaptable LED trunking system that offers an excellent quality of light while more than halving energy costs compared to fluorescent lamps. For retail applications, a family of linear panels, non-linear modules and a spot portfolio can be smoothly integrated into the track backbone to let your merchandise sparkle and stand out. For industrial applications, the focus is on reducing installation and maintenance cost by using fewer linear panels. With the electrical set-up of up to 13 wires, the freedom to position these fixtures as required and the integration of other services/third-party hardware, the system allows you to reduce ceiling clutter. It can also be easily re-configured to accommodate future lay-out changes. The infrastructure is enabled to integrate sensors for data collection, giving you the opportunity to use insightful granular information to support your business.

#### Product data

General Information		Lighting Technology
Light source replaceable	No	Value ladder
Number of gear units	1 unit	CE mark
Driver included	Yes	Warranty period
Remarks	*-Per Lighting Europe guidance paper	Flammability mark
	"Evaluating performance of LED based	
	luminaires - January 2018": statistically	ENEC mark
	there is no relevant difference in lumen	Glow-wire test
	maintenance between B50 and for	EU RoHS compliant
	example B10. Therefore, the median useful	
	life (B50) value also represents the B10	Light Technical
	value.	Luminous Flux
Product family code	LL512X [Maxos fusion Panel]	

Lighting Technology	LED
Value ladder	Specification
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on normally flammable
	surfaces
ENEC mark	ENEC mark
Glow-wire test	Temperature 850 °C, duration 30 s
EU RoHS compliant	Yes
Light Technical	
Luminous Flux	3,100 lm

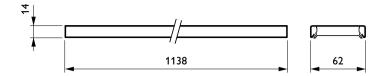
### **Maxos fusion**

Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	148 lm/W
Color rendering index (CRI)	>80
Flickering value (PstLM) - Flickering value	1
as per EN 61000-3-3	
Stroboscopic effect visibility measure	0.4
(SVM)	
Beam angle of light source	120 degree(s)
Light source color	840 neutral white
Optic type	Double asymmetric optic wide beam
Luminaire light beam spread	86° x 92°
Unified glare rating CEN	22
Operating and Electrical	
Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Inrush current	21 A
Inrush time	0.28 ms
Power Consumption	21 W
Power Factor (Fraction)	0.97
Connection	Connection unit 7-pole
Cable	-
Number of products on MCB of 16 A type B	24
Temperature	
Ambient temperature range	-20 to +35 °C
Ambient temperature range	-20 to +35 °C
Ambient temperature range Controls and Dimming	-20 to +35 °C
	-20 to +35 °C
Controls and Dimming	
Controls and Dimming Dimmable	Yes
Controls and Dimming Dimmable Driver/power unit/transformer	Yes Power supply unit with DALI interface
Controls and Dimming Dimmable Driver/power unit/transformer Control interface	Yes Power supply unit with DALI interface DALI
Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output	Yes Power supply unit with DALI interface DALI
Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing	Yes Power supply unit with DALI interface DALI No
Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing Material	Yes Power supply unit with DALI interface DALI No
Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing Material Reflector material	Yes Power supply unit with DALI interface DALI No Steel -
Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing Material Reflector material Optic material	Yes Power supply unit with DALI interface DALI No Steel - Polycarbonate
Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing Material Reflector material Optic material Optic acover material	Yes Power supply unit with DALI interface DALI No Steel - Polycarbonate Polycarbonate
Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing Material Reflector material Optic material Optical cover material Fixation material	Yes Power supply unit with DALI interface DALI No Steel - Polycarbonate Polycarbonate Steel

Overall width	62 mm
Overall height	14 mm
Dimensions (Height x Width x Depth)	14 x 62 x 1138 mm
Approval and Application	
Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK02 [0.2 J standard]
Sustainability rating	Lighting for circularity
Protection class IEC	Safety class I
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-7%
Initial chromaticity	(0.34. 0.35) SDCM <3
Power consumption tolerance	+/-11%
Over Time Performance (IEC Complia	nt)
Control gear failure rate at median useful	5 %
life 50000 h	
Control gear failure rate at median useful	10 %
life 100000 h	
Lumen maintenance at median useful life*	L95
50000 h	
Lumen maintenance at median useful life*	L85
100000 h	
Application Conditions	
Application Conditions Performance ambient temperature Tq	25 ℃
	25 °C 1%
Performance ambient temperature Tq	
Performance ambient temperature Tq Maximum dim level Suitable for random switching	1%
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data	1% Not applicable
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name	1% Not applicable LL512X LED31S/840 PSD DA25W 7 WH
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name	1% Not applicable LL512X LED31S/840 PSD DA25W 7 WH LL512X LED31S/840 PSD DA25W 7 WH
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code	1% Not applicable LL512X LED31S/840 PSD DA25W 7 WH LL512X LED31S/840 PSD DA25W 7 WH 871869638447300
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code	1% Not applicable LL512X LED31S/840 PSD DA25W 7 WH LL512X LED31S/840 PSD DA25W 7 WH 871869638447300 910925864330
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code Material Nr. (12NC)	1% Not applicable LL512X LED31S/840 PSD DA25W 7 WH LL512X LED31S/840 PSD DA25W 7 WH 871869638447300 910925864330 910925864330
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack	1% Not applicable LL512X LED31S/840 PSD DA25W 7 WH LL512X LED31S/840 PSD DA25W 7 WH 871869638447300 910925864330 910925864330 1
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code Material Nr. (12NC)	1% Not applicable LL512X LED31S/840 PSD DA25W 7 WH LL512X LED31S/840 PSD DA25W 7 WH 871869638447300 910925864330 910925864330

## **Maxos fusion**

#### Dimensional drawing





© 2024 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.

www.lighting.philips.com 2024, March 14 - data subject to change