



Maxos LED

4MX850 491 LED40S/840 PSD NB SI

4MX850 | Maxos Led Industry, LED40S | LED module, system flux 4000 lm, 840 neutral white, Power supply unit with DALI interface, Narrow beam, Silver

Customers in the industrial and retail sectors are looking for general lighting solutions with a justifiable payback, while meeting all relevant norms for supermarkets and industry applications. For a limited investment, Maxos LED Industry offers best-in-class energy savings while delivering high lux levels at the required color temperatures and glare factors. The minimalistic Maxos LED Industry system comprises exchangeable mid-power LED boards mounted on a standard Maxos trunking rail. A choice of wide and medium-beam lenses means flexibility in light distribution. Compared with a conventional fluorescent installation, this highly efficient LED solution offers full payback in less than three years. And the benefits keep coming: the use of our upgradable LED engine platform makes Maxos LED Industry a truly future-proof solution.

Product data

General Information			
Lamp family code	LED40S [LED module, system flux 4000 lm]		control units, surge protection device, front cover and mechanical parts
Light source replaceable	No	Warranty period	5 years
Number of gear units	1 unit	Sustainability rating	Unclassified
Gear	-		
Driver included	Yes	Light Technical	
Service tag	Yes	Luminous Flux	4,000 lm
Lighting Technology	LED	Correlated Color Temperature (Nom)	4000 K
Value ladder	Performance	Luminous Efficacy (rated) (Nom)	166 lm/W
Serviceability class	Class B, luminaire is equipped with some serviceable parts (when applicable): driver,	Color rendering index (CRI)	>80
		Number of light sources	1

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Beam angle of light source	120 degree(s)
Light source color	840 neutral white
Optic type	Narrow beam
Luminaire light beam spread	50°
Unified glare rating CEN	Not applicable

Sustainability Data

Embedded carbon (A1-A3)	25.6 kg CO ₂ e
Recyclable content ratio of the finished product	50.3 %
Product non-virgin material ratio	25.9 %
GWP total B6 (kg CO ₂ eq) Declared Unit	Please calculate using your local energy mix value: Power Declared Unit (kW) * Service life (hrs) Declared Unit * Energy mix (kg CO ₂ eq / kwh)
GWP total B6 (kg CO ₂ eq) Functional Unit	Please calculate using your local energy mix value: Power Declared Unit (kW) * 1000 (lm) / lumen output (lm) Declared Unit * 35000 (hrs) * Energy mix (kg CO ₂ eq / kwh)

Operating and Electrical

Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Inrush current	21 A
Inrush time	0.280 ms
Power Consumption	24 W
Power Factor (Fraction)	0.97
Connection	Connection unit 5-pole
Cable	-
Number of products on MCB of 16 A type B	24
Suitable for random switching	Not applicable
Protection class IEC	Safety class I
Total harmonic distortion	7 %

Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
Constant light output	No
DALI Standard	DALI-2™
Maximum dim level	1%

Mechanical and Housing

Housing Material	Steel
Reflector material	-
Optic material	Polymethyl methacrylate
Optical cover material	Polymethyl methacrylate
Fixation material	Steel
Housing Color	Silver
Optical cover finish	Clear
Overall length	1,478 mm

Overall width	63 mm
Overall height	50 mm
Dimensions (Height x Width x Depth)	50 x 63 x 1478 mm
Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK02 [0.2 J standard]
Optical cover type	Polymethyl methacrylate bowl/cover
Net Weight (Piece)	1.700 kg

Approval and Application

Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	-
CE mark	Yes
ENEC mark	ENEC mark
Photobiological risk	Photobiological risk group 1 @200mm to EN62778
EU RoHS compliant	Yes
Performance ambient temperature Tq	35 °C
Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value.
Ambient temperature range	-20 to +35 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM <3.5
Power consumption tolerance	+/-10%
Standard Deviation of Colour Matching (McAdam ellipse)	SDCM≤4

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50000 h	5 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h	L90
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L80

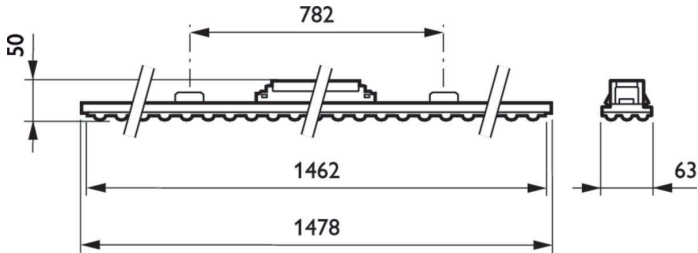
Product Data

Order product name	4MX850 491 LED40S/840 PSD NB SI
Full product name	4MX850 491 LED40S/840 PSD NB SI
Full product code	403073266173299
Order code	66173299
Material Nr. (12NC)	910629122526
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	4030732661732
Numerator - Packs per outer box	3

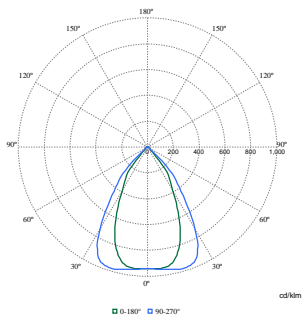
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EAN/UPC - Case	4030732258468
Product family code	4MX850 [Maxos Led Industry]

Dimensional drawing



Photometric data



Polar Normal (separate) - 4MX850I - 910629122526

