



mesina

LUMINAIRE

Robust. Modern. Efficient.

Advanced Level: Control. Monitoring.
Innovation.

TECHNICAL
SHEET

MODULE: XL

90W-180W

TECHNICAL SPECIFICATION

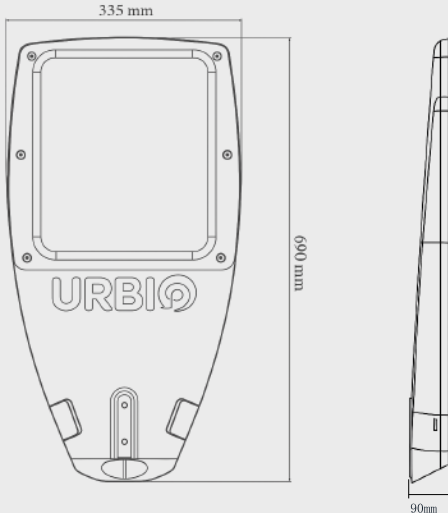
GENERAL INFORMATION		MESINA XL 90W-180W
Product family code		XL[90-180]W[80/120]L5050[27/30/40/57]CRI[70/80][LD/N/KH/DK][P10/P20]D6[NA/I40/I60][TD/IV/SS/OS][D2/O10V/PWM][NM/ZG/NMZG/CLI]
Class II		XL[90-150]W[80/120]L5050[27/30/40/57]CRI[70/80][LD/N/KH][P10/P20]D6[NA/I40/I60][TD/IV]D2[NM/ZG/NMZG]
Lifetime		100.000 hours
Lumen maintenance code		L90B10
Warranty		5 years

OPTICS	
Source Type	LED Module
No. of LED's	80/120 pcs
LED's Type	5050 series
LED colour temperature	2700K; 3000K; 4000K; 5700K $\pm 10\%$ ⁽²⁾
Colour rendering index	CRI >70; >80; ⁽¹⁾
Luminous flux	14100 – 30800lm
Luminaire efficacy	141-191 lm/W ⁽¹⁾
Supply voltage LED	5.6-6V
LED power class	0.45-5W

ELECTRICAL CHARACTERISTICS	
Rated power	90W-180W $\pm 1\%$
Nominal voltage	220-240 Vac
Working frequency	50/60 Hz
Power factor	$\geq 0,95$
Start time	0,5 sec
Operating temperature	-40°C ÷ +55°C ⁽¹⁾
Driver	Compatible with the light source
Electrical class	Class I, Class II ⁽²⁾
Surge protection	SPD 10kV / SPD 20kV
Integrated overheating protection (NTC)	According to EN 61347-2-13 C5e, return to working conditions
Auxiliary output 12V/0.2A	The possibility of connecting different types of sensors to the lighting device
CLO function / Product lifetime warning	YES

COMPLIANCE	
CE Certificate	YES
Brand license	YES
WEEE Certificate	YES
Standards according to LVD, EMC, CE, ENEC, ENEC+	SR EN IEC 60598-1:2021+A11:2022; SR EN 60598-2-3:2004+A1:2012+AC:2015; SR EN IEC 62031:2020+A11:2021; SR EN 61347-1:2015+A1:2021; SR EN 61347-2-13:2015+A1:2017; SR EN IEC 55015:2019+A11:2020; SR EN 61000-3-3:2014+A1:2019+A2:2021+A2:2021/AC:2022; SR EN IEC 61000-3-2:2019; SR EN 61547:2010; SR EN 62262:2004+A1:2021, ch.5,6,7; SR EN 60068-2-1:2007 (Ae); ISO 4354:2009; EN IEC 60598-1:2021+A11:2022; EN 60598-2-3:2003+A1:2011; EN 62262:2002/A1:2021; PD EPRS 003:2018-05 (EN 62722-2-1:2016) · EPRS 003:2025-04 (EN IEC 62722-2-1:2023) · EPRS 002:2025-04 (EN IEC 62722-1:2022).

⁽¹⁾ All photometric data in this datasheet — luminous flux and luminaire efficacy — refer to CRI 70 configurations. Photometric data for CRI 80 on request.
⁽²⁾ Applies up to 150 W. Above 150 W: Class I, IP66, ambient temperature -40 °C to +50 °C, CCT 3000 K / 4000 K / 5700 K

HOUSING AND MECHANICAL PARTS	
Housing	Die-cast aluminium, painted in electrostatic field
Dimensions	690x335x90mm 
Weight	8kg
Optical diffuser	Heat resistant glass
Lens	PMMA/PC
Ingress Protection	IP66 / IP67 ⁽²⁾
Impact Resistance	IK09 / IK10
Future Proof	The LED module can be easily replaced, in time, with a module with better performing technology
Installation	Suitable for a console with a diameter of 32÷48mm, optional for a console with a diameter of 48÷60mm, with the possibility of adjusting the angle from 5 to 5 degrees in any position, through the indexer

DIMMING & CONTROL	
Dimmable	PWM; 0-10V; DALI2-D4I Driver with adjustable dimming program (1%-100% of initial wattage)
Connectivity option(s)	Nema 7-pin (optional) Zhaga / 2 x Zhaga socket's (optional) Interior controller (optional)

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