City XL

LED lighting, Road lighting

6 YEARS WARRANTY

The MS LUX lighting solutions are the perfect choice.

CE · ENEC 22 · PLUS ENEC 22 · IK · IP · RoHS COMPLIANT · LVD low voltage directive · EMC

City XL

Light Data

Luminous flux	36000 - 60000 lm
Correlated color temperature (CCT)	3000 K (2200/2700/4000 K options)
Luminous efficacy	137 – 153 lm/W
Colour rendering index (CRI)	> 70, (80 option)
Protective cover	Flat tempered glass
Glass thickness	4 mm - IK08 (option) 5 mm – IK09 (option)
LED lifetime L98B10	> 100 000 h
SDCM (McAdam)	< 5
ULOR	0% (full cutoff)
UV radiation	0%
Warm-up time	< 0,5 s
Lens type	Individual asymmetric

Certificates, Standards

CE mark	Yes
ENEC license	Yes
ENEC+ license	Yes
EMC certificate	Yes
LVD certificate	Yes
ENV certificate	Yes
Mech. Impact protection code	IK08 IK09
Ingress protection code	IP66
Vibration certificate	Yes
Salt mist certificate	Yes
RoHS compliant	Yes
Warranty	6 years
Possibility of extending the warranty	Yes

Electrical Data

Input voltage	220-240 V AC
Frequency	50-60 Hz
Power factor	> 0,95
Electrical protection class	Class I, Class II
Ambient temperature	- 40 ° C + 55 ° C
Overvoltage protection (kV) options	CM – 10 kV (min) 15kV (max) DM – 10 kV (min) 20kV (max)
Zhaga (according to Zhaga book 18)	Yes

Controls and Dimming

Autonomous control	Virtual midnight
Dimming	DALI-2, D4i, Time dimming
Control range	10-100 %
Dim-to-off	Yes
CLO system (option)	Yes
Wireless driver programming	NFC

Mechanical Data

Housing material	Die-cast aluminium
Corrosion protection	Electrostatically applied powder/paint
Cooling system	Passive
Knife switch	Yes
Lens material	PMMA, PC
Color (RAL)	Grey (RAL 7046 + RAL 9003)
Opening the housing without tools	Yes
Modular design	Yes
Gasket	Silicone
Max. surface exposed to wind	0,060 m²

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Other Data

Model	Power (W)	Luminous flux * (lm)	Luminous efficacy * (lm/W)	CCT	CRI
City XL	238	36300	153	3000	>70
City XL	308	45127	146	3000	>70
City XL	444	60799	137	3000	>70

* The results depend on the type of optics (3000K)

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Dimensions

Model	Width (mm)	Length (mm)	Height (mm)	Ø Pole (mm)	Weight (kg)
City XL	401	943	116	Ø60*, Ø76*	13,3
City XL	401	963	124	Ø60*, Ø76*	13,3

*on request

City XL
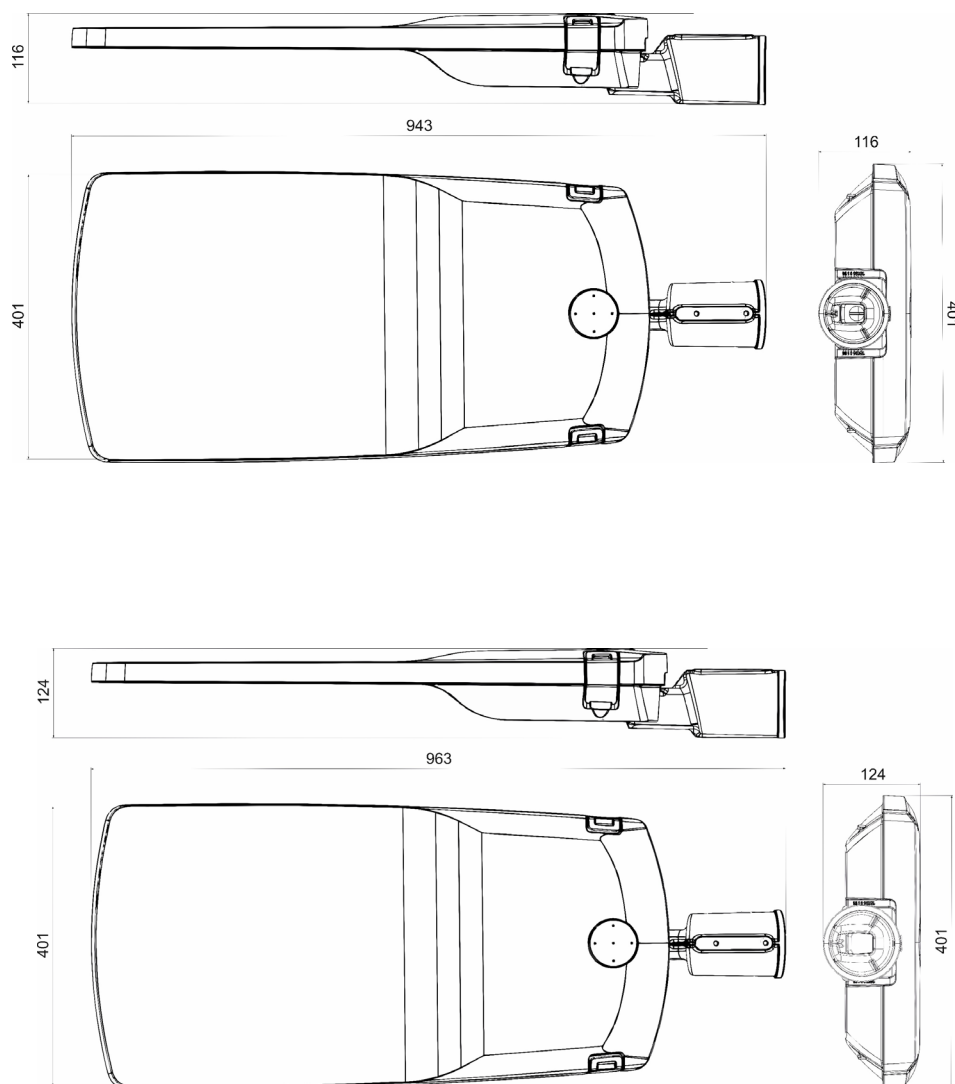
City XL

Dimensions (without

Model	Width (mm)	Length (mm)	Height (mm)	Ø Pole (mm)	Weight (kg)
City XL	401	799	103	Ø60*, Ø76*	12,8

* on request

City XL
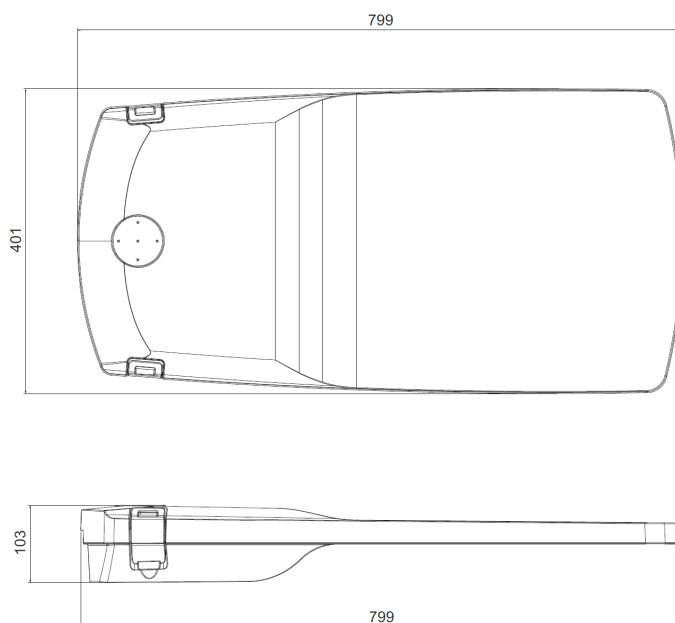
Connecting and disconnecting the lamp and all its parts MUST be done in a de-energized state.

Installation

1. The cable for powering the lamp comes out of the lamp neck, where:
   - L – brown
   - N – blue
   - Grounding (GND) – yellow green
2. Bring the NN network's connecting cable to the lamp's neck. If an additional bracket (arm) is used, pass the cable through the bracket (arm).
   The lamp is connected directly to the network with the supplied cable 3x1 mm² (rubber) or via the connecting connector WAGO 294-5013. The cable is connected to the network, made with a self-supporting cable bundle, to one phase (one conductor of the public lighting network L1-L2 or L1-L3 or L2-L3) and alternately to two-phase conductors intended for powering the public lighting. A slip-on + plug is provided for manipulation. The N-conductor is used for consumer networks. For a network made with five bare conductors, the cable is connected to the public lighting conductor the common N-conductor of the consumer network, and the public lighting network.
3. Connect the phase (L), neutral (N), and ground (GND) wires properly using terminal blocks. The working clamps are not supplied completely with the lamp.
4. When mounting the lamp, additionally check whether the protective cover of the Zhaga socket is properly attached.
5. Attach/mount the lamp to the post or support (arm) by tightening the screws located on the neck of the lamp (2xM8 screws).
6. The lamp is placed directly on the pole (top) or support (arm), in the position shown in the pictures.
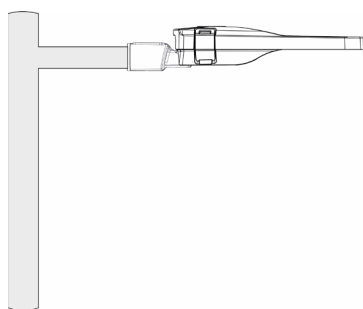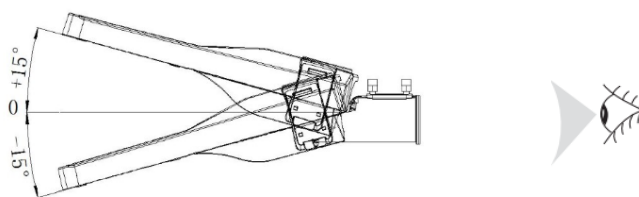

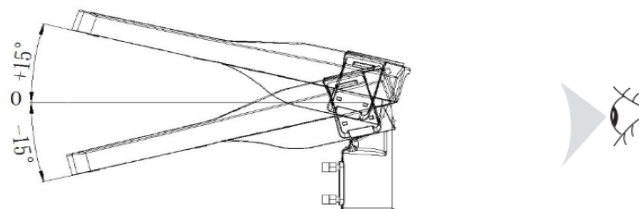Mounting on a bracket (arm)   Pole mounting
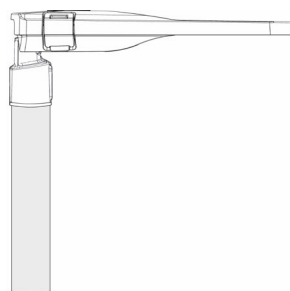
7. If necessary, change the inclination of the lamp on the pole or support (arm) by adjusting the lamp door (in the range from -15° to +15°, for mounting on the arm (in the range from -15° to +15°).
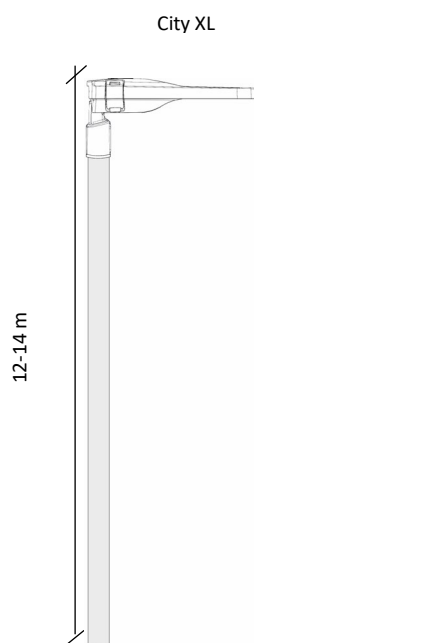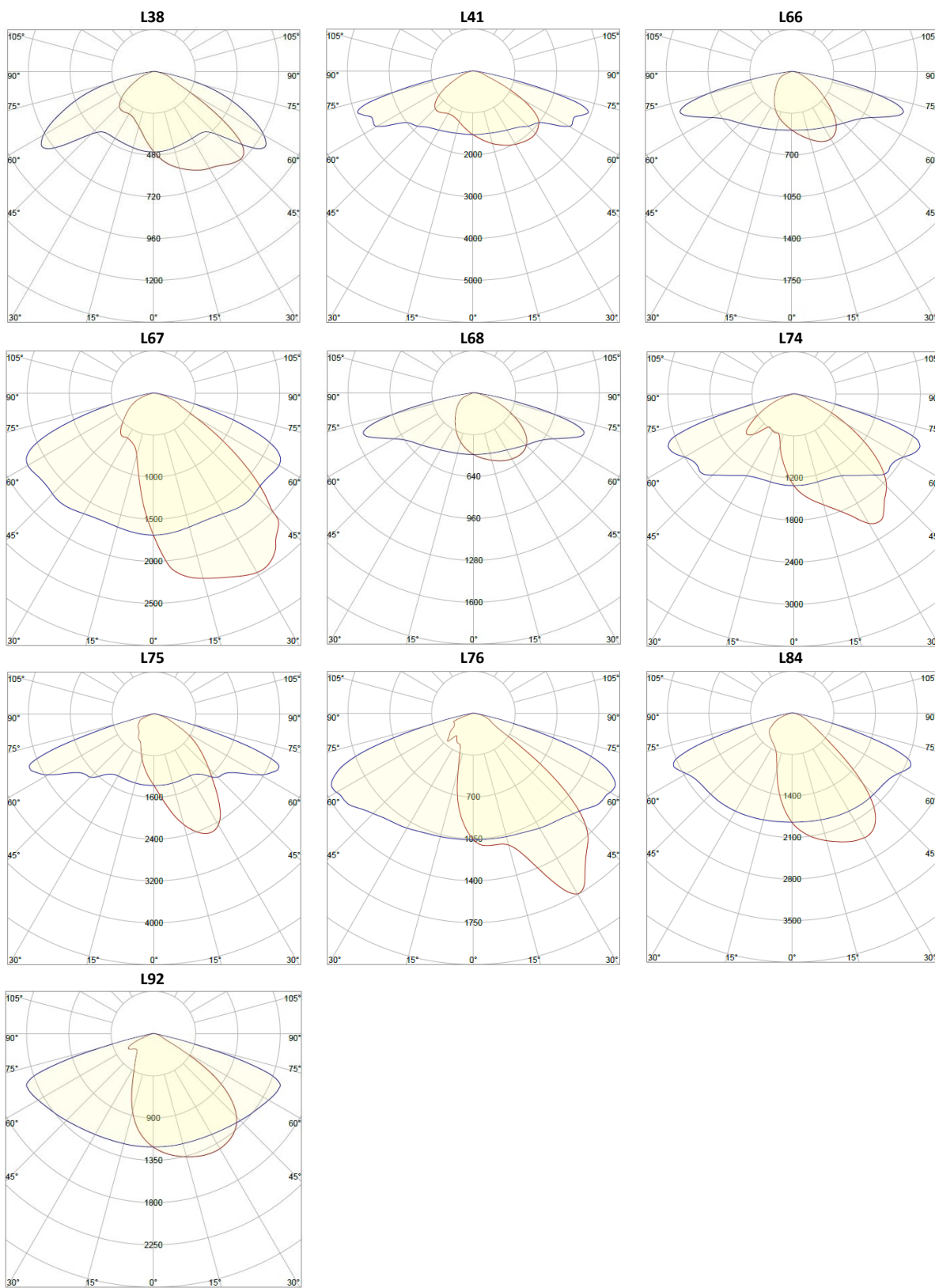

-15°, 0°, 15°

-15°, 0°, 15°

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	Optimal mounting height (m)
City XL	12 – 14

City XL

12-14 m

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L38

L41

L66

L67

L68

L74

L75

L76

L84

L92

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Lamp Maintenance

The lamp is designed in a modular way so that in case of failure of individual parts, they can be replaced without disassembling the entire lamp from the pole or support (arm).

For this purpose, the lamp is designed so that it is possible to open the housing without the use of tools. If maintenance is carried out without dismantling, the lamp must not be opened during bad weather conditions to prevent moisture condensation inside the lamp.

Before closing the protective cover, the inside of the lamp should be wiped with a dry, soft cloth. In doing so, it is necessary to check the condition of the seal of the protective cover and replace it if it has been damaged.

Installation and maintenance

Lamps can only be installed/disassembled by qualified persons, authorized by the manufacturer.

If an unauthorized person performs assembly/disassembly, the warranty on the lamps is lost.

The standard warranty on lamps is 6 years unless otherwise indicated.

Lamps can only be serviced by the manufacturer or an authorized service center.

The light source inside the light fixture can only be serviced by the manufacturer, an authorized service technician, or another qualified person authorized by the manufacturer.

Torque in Nm applied to any screw securing the lamp to the pole: 3Nm.

Manufacturer and authorized servicer

M san Grupa d.o.o.
Dugoselska ulica 5, 10 372 Rugvica
Croatia
Tel.+385 (0) 1 3654 900
Fax.+385 (0) 1 3654 926

www.mslux.hr
e-mail: mslux_info@msan.hr