CANDELA LED

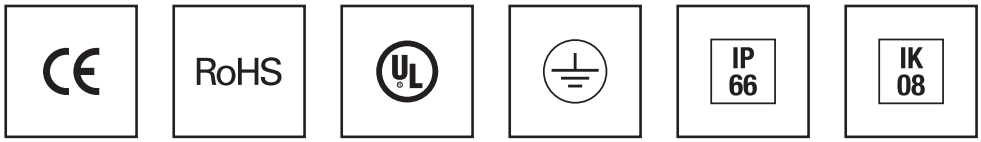
Product description

1

1.1 Description

A LED streetlamp designed to light large city roads that is a more advanced and technologically enhanced version of its discharge predecessor.
The luminaire neatly contains the optical and electrical fittings. With high energy efficiency, adjustability and precise light distribution (cut-off), light pollution is significantly reduced. Long lifespan of over 60,000 hours.
The Candela LED comprises three parts: body, variable-length arm and pole bracket.

1.2 Luminaire characteristics



1.3 Material and finishes

Recycled aluminium body with a paint finish. Aluminium injection base and cap, both with a powder coating. Anodised aluminium extrusion heat sink and tempered glass diffuser.

The two standard arm sizes (75 or 150 cm) adjust the distance between luminaire and pole, making it easy to adapt to nearby trees.

Extruded aluminium means that the arm can be adjusted to up to 300 cm, at which a point a reinforcing strut is required.

Aluminium injection clamp with paint finish adaptable to cylindrical pole of 127 mm (compatible with the Rama pole family).

Poles of 6.00 m, 8.20 m, 9.20 m and 10.20m high with two circular tube sections measuring Ø 168 mm at the bottom and Ø 127 mm at the top. The poles are made of hot-dip galvanised steel with a paint finish.

Aluminium injection	Aluminium injection	Aluminium injection
Painted	Painted	Painted
RAL 9006	RAL 9007	RAL 7024

The poles and clamps are manufactured with the same painted finish options as the luminaire.

Product description 1

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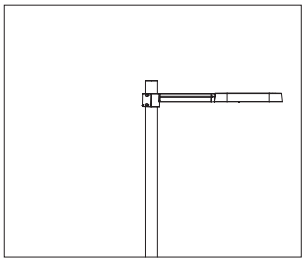
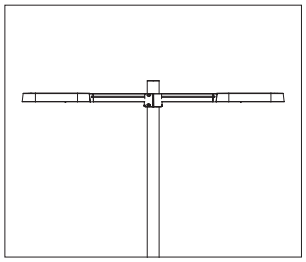
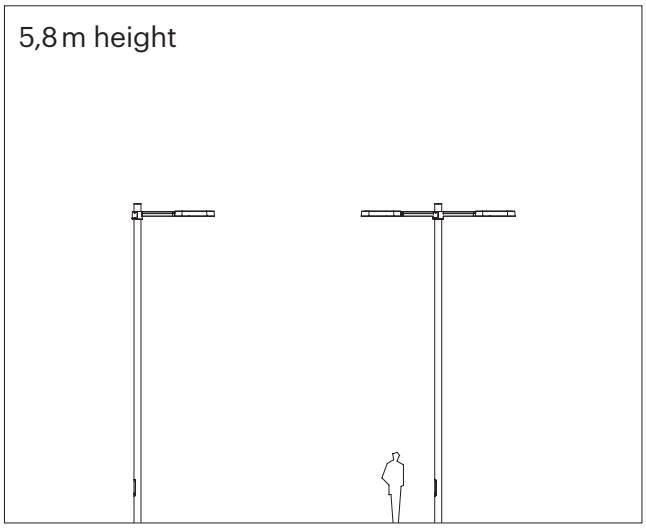
Design options 2

2.1 Connection

	
Single luminaire	Double luminaire
S/M/L arm	S/M/L arm

2.2 Pole configurations

5,8 m height

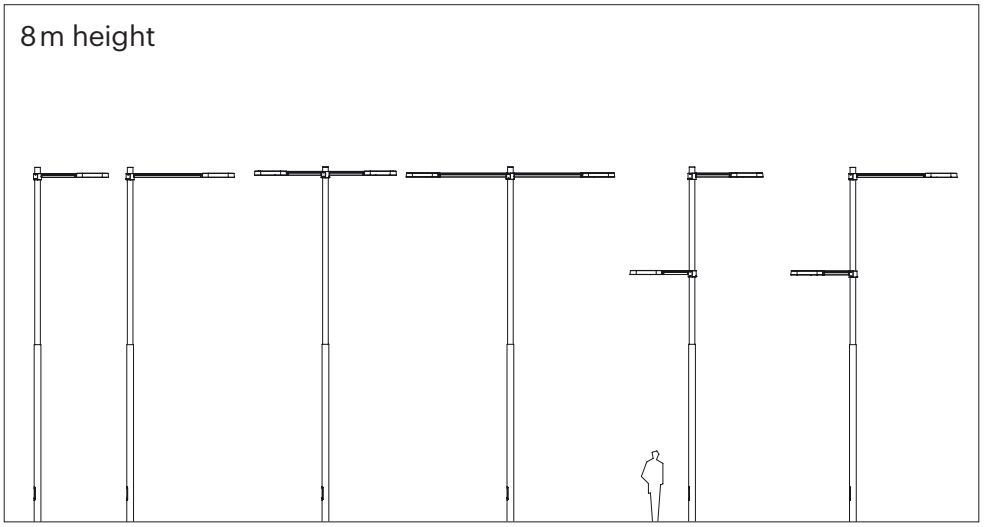


Design options

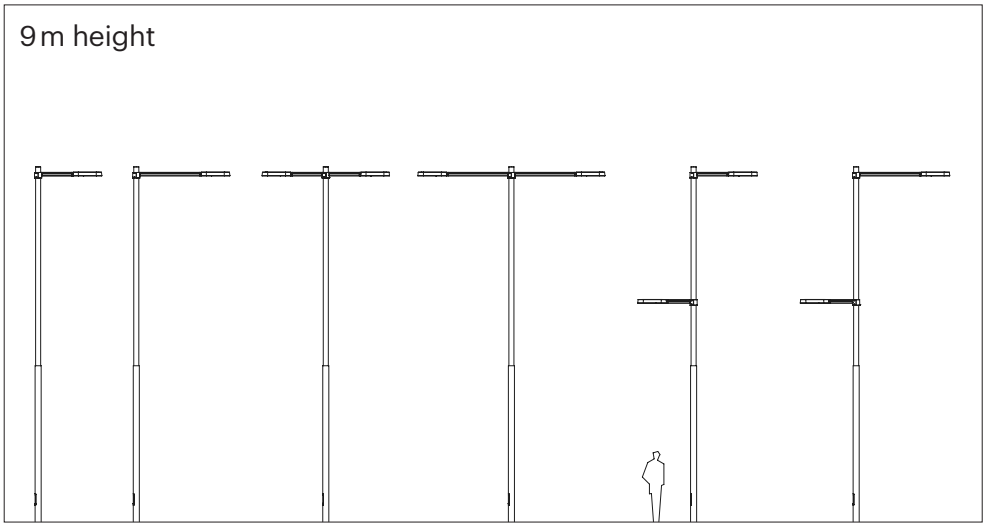
2

2.2 Pole configurations

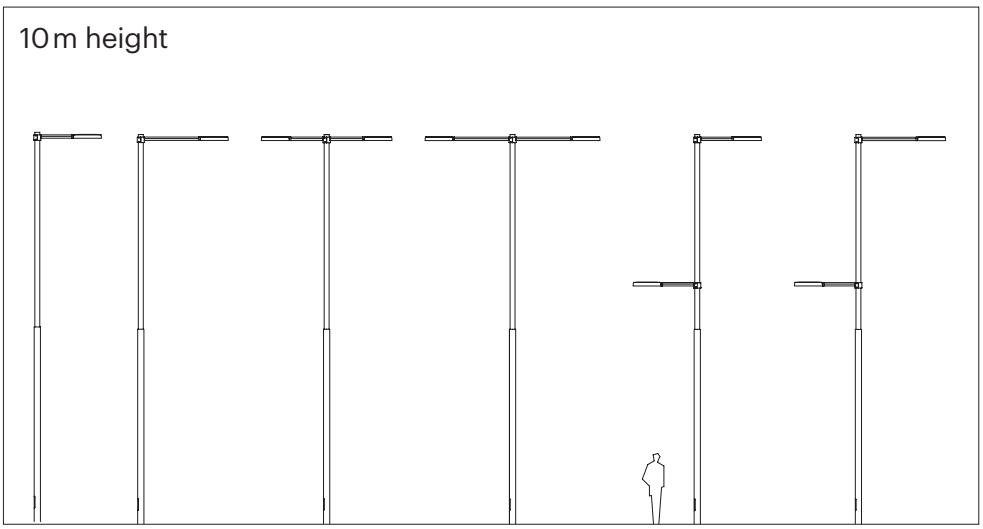
8 m height



9 m height



10 m height



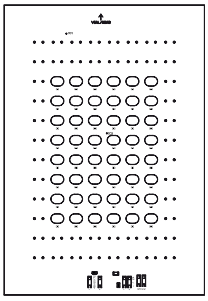
Light unit

3

3.1 Lamp

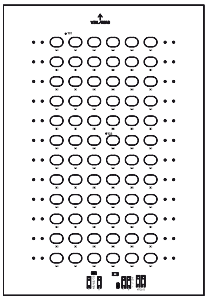
Optical unit with LED technology with light distribution refractor lenses. Adjustable electronic fittings.

A:
Optical unit



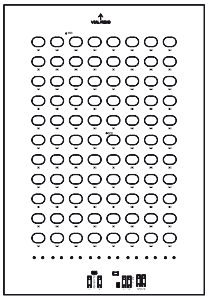
48 LED

Board



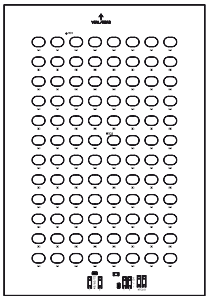
72 LED

Board



88 LED

Board



96 LED

Board

B:
LED
configurations

Colour temperature (ºK)	3000K-CRI80 (min.)			
no LED	**48**	**72**	**88**	**96**
Operating current (mA)	350 500	350 500	350 500	350 500
Nominal lamp power (W)	46 66	68 99	83 121	91 132
System power (W)	52 74	76 107	91 130	103 147
Luminaire luminous flux (lm/W)	4.438 6.071	6.657 9.106	8.137 22.130	8.877 12.142
Luminaire efficacy (lm/W)	85 82	85 85	89 86	86 83

Light unit

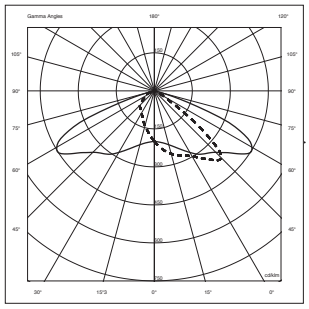
3

3.1 Lamp

B:
LED
configurations

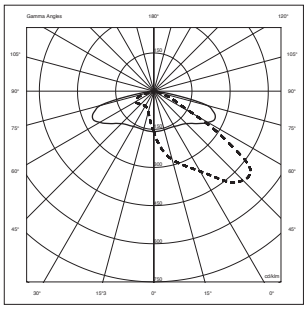
Colour temperature (ºK)	4000K-CRI70 (min.)			
no LED	**48**	**72**	**88**	**96**
Operating current (mA)	350 500	350 500	350 500	350 500
Nominal lamp power (W)	46 66	68 99	83 121	91 132
System power (W)	52 74	76 107	91 130	103 147
Luminaire luminous flux (lm/W)	5.248 7.196	7.872 10.786	9.622 13.182	19.497 14.381
Luminaire efficacy (lm/W)	100 97	104 100	106 101	102 98

3.2 Light distribution



ST 2 Type II*

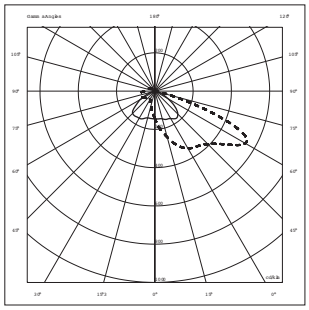
asymmetric



ST 3 Type III*

asymmetric

NEW DISTRIBUTION



ST 4 Type IV*

asymmetric

NEW DISTRIBUTION

* According to IESNA classification (Illuminating Engineering Society of North America)

Light unit

3

3.3 Colour temperature

3000 K

Warm white

4000 K

Neutral white

3.4 Programming options

1-10 V system	Allows remote control of the luminous flux between 10% and 100% using an analogue signal (Vi≥8V: 100% / Vi≤1V:10%)
Dali system (Digital Adressable Lighting Interface)	This is a very reliable digital bi-directional system to regulate the luminous flux and receive data on the status of the light plates for maintenance purposes. The luminaires can be reprogrammed remotely using auxiliary devices to change the initial programming pattern.
Dynadimmer	The flow of light can be adjusted according to the time of day to save energy. An example of dimming with Dynadimmer: Until 11pm: luminaire function 100% 11pm to 5am: luminaire function 70% After 5am: luminaire function 90%
AmpDim (phase-cut dimming)	This type of dimming does not require an additional control line. A standard controller is connected between the power line and the electronic equipment. The voltage variation can control the flow between 1% and 100%.