SOLAR

HIGH EFFICIENCY
LED STREET LUMINAIRES
MADE IN THE EU

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luxtella

TECHNICAL DATA

Luxtella solar street luminaires are technical luminaires that are designed to fulfil the most demanding light calculation scenes like S, ME and CE classes with different adaptation to local lighting standards.

Characteristics of Driver + Charge controller unit

- 24 V input
- Dimming options (not possible with 400 and 500 mA version):
  - Possibility to define dimming level for first period after turn on
  - Possibility to define dimming level for second period after turn on
  - Possibility to define dimming level for third period after turn on
- Possibility to set minimum discharging voltage from 21,6 - 23,6 V
- Lamp is switched on/off in accordance with charging voltage limit 6 - 16 V
- Overvoltage charging protection at 29,2 V
- Programming via IR remote controller
- Unit is usually installed outside the luminaire

Mechanical characteristics

- Housing made of aluminium
- Top pole or side entry. As a standard equipped with 60 mm pole connector, 76 mm as an option
- Possibility to change inclination from -15° up to +15° with step of 5°
- As a standard equipped with 0,5 m connecting cable, longer cable upon request.
- Finish made of anodisation and dust painted with epoxy paint thermal treatment to ensure long-term environmental protection against all weather conditions. RAL 9006 or upon request.
- All screws are made of stainless steel
- All gaskets are made of ozone and UV resistant silicone for IP 66 protections
- Certified for IK 10

LEDs

We use highly efficient & reliable Cree LEDs which ensure long term operation for the lifetime of the luminaire and highest lm/w efficiency in the industry. In the spreadsheet below the total – system W is stated. Below power (W) of lamp is a result in the working mode of lamp (app. 1.5h after a lamp is turned on). Below lumen is LED lumen. System lumen is available for each optic in IES files and is lower than the LED lumen by app. 5 % (depending on the type of lens). Different colour temperatures are available upon request. The below results in the table are written for 4000 K and 3000 K (average results).

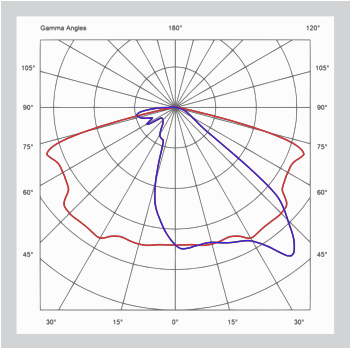
*Upon request, we can supply also Luxtella with driving currents between the mA stated in the above spreadsheet!

No. LED	Current [mA]	Sys power [W]	4000K [lm]	3000K [lm]
12	400	15	2400	2300
	500	18	2900	2700
	600	23	3400	3200
	700	26	3800	3600
	800	30	4200	4000
	900	34	4600	4400
	1000	38	4900	4700
24	400	29	4700	4500
	500	37	5700	5400
	600	45	6600	6300
	700	54	7500	7100
	800	61	8300	7900
	900	67	9000	8600
	1000	75	9700	9200
36	600	67	8900	8500
	700	79	10000	9500
	800	92	10900	10400
	900	103	11700	11100
	1000	116	12300	11700
48	600	89	12500	11900
	700	106	14000	13300
	800	122	15300	14500

OPTICAL DATA

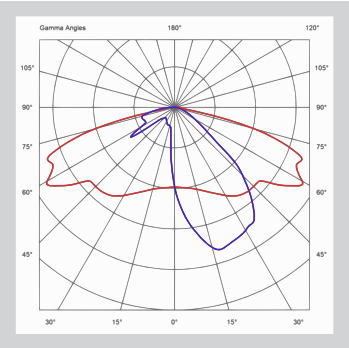
Optical characteristics

- As a standard we are using PMMA that is 100 % UV resistant which prevents yellowing over the entire life time of the lenses.
- Polycarbonate lenses ensure high impact resistance.
- Photometric IES files are available upon request.



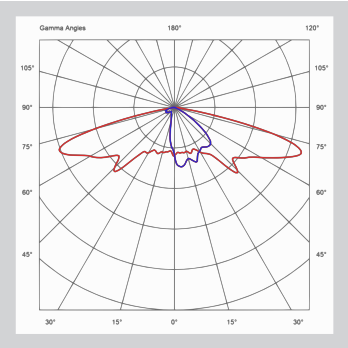
Optic G

Optimised for ME road classes and wider roads (IESNA TYPE III). Pole height from 7 – 12 m, pole spacing from 25 – 45 m.



Optic C

Optimised for S road lighting classes with narrow roads (IESNA TYPE II/III) Pole height from 4 – 8 m, pole spacing from 25 – 45 m.
*upon request we can also supply a modified optic C without back spill light.

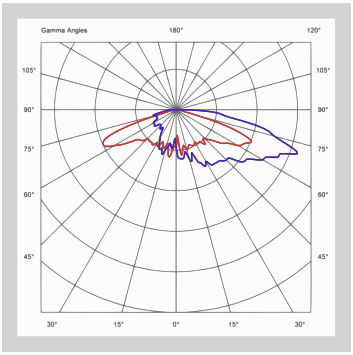


Optic N

Wide beam optics (IESNA TYPE II) optimised for long pole distances, pedestrian & bike paths. Pole height from 4 – 9 m, pole spacing from 30 – 55 m.

Battery characteristics:

- Nominal Voltage: 24 V DC
- Type: Lithium LiFePO4
- Capacity: 35 Ah (840 Wh), 50 Ah (1200 Wh), 75 Ah (1800 Wh), 100 Ah (2400 Wh)
- No. of cycles: min. 2000
- Montage: On bracket behind solar panel
- Weight: 35 Ah - 9 kg, 50 Ah - 15 kg, 75 Ah - 20 kg, 100 Ah - 26 kg
- Dimensions: 35 Ah - (l x w x h) 37 x 28 x 6,5 cm, 50 Ah - (l x w x h) 41 x 32 x 7 cm, 75 Ah - (l x w x h) 40 x 32 x 9 cm, 100 Ah - (l x w x h) 40 x 32 x 11 cm

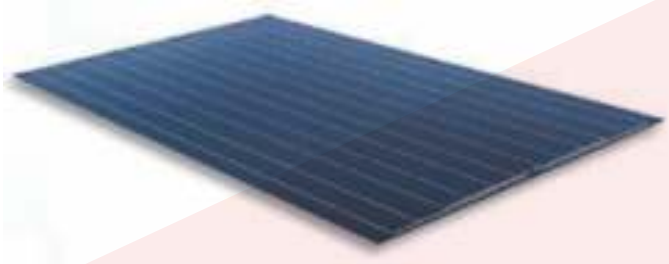


Optic L

Forward-throw beam optics (IESNA TYPE IV) optimised for wide outdoor areas and parking lots. Pole height from 6 – 12 m, pole spacing from 15 – 25 m.

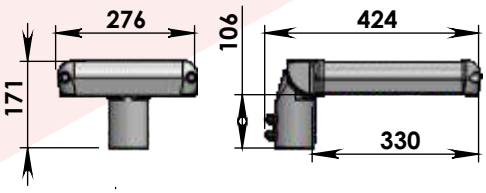
Solar panel characteristcs: STC (AM1.5, 1000 W/m^2, 25°C)

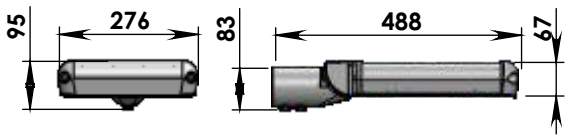
- Type: Multicrystalline
- Nominal power: 265 W
- Short Circuit Current: 9,0 A
- Open Circuit Voltage: 39,3 V
- MPP Current: 8,5 A
- MPP Voltage: 31,2 V
- Solar Cell Efficiency: 18,1 %
- Module Efficiency: 16,2 %
- Power Output tolerance: 0/+5 W
- Dimensions: (l×w×h) 165 × 99 × 4 cm
- Weight: 18,5 kg



MECHANICAL DATA

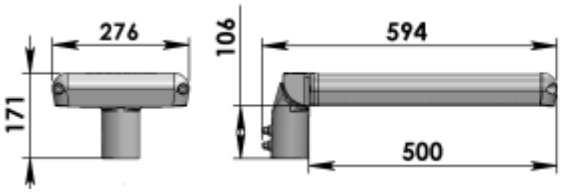
12 LED lamp

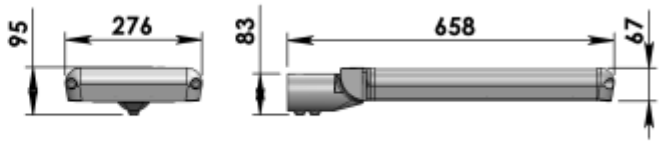




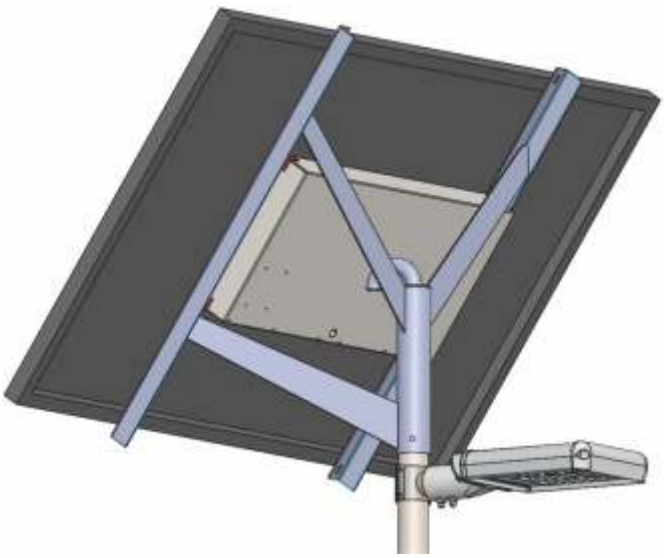
- Gross weight: 5,5 kg, Net weight: 5 kg, Wind area: 0,028 m^2
- Box dimension: 54 x 30 x 10 cm, Full euro pallet dimension: 64 units: 80 x 120 x 150 cm

24 LED lamp





- Gross weight: 7,5 kg, Net weight: 7 kg, Wind area: 0,035 m^2
- Box dimension: 75 x 30 x 10 cm,
- Full euro pallet dimension: 48 units: 80 x 120 x 150 cm



Operating temperature from -40°C up to 55°C. Our standard warranty (acc. warranty conditions) is 5 years but the warranty may be extended for up to 10 years.

Upon request, we are able to design a complete kit with a battery,solar panels and all the needed mechanical construction below the panel. Usually combine this with a 250 W solar panel and 35 Ah, 50 Ah or higher capacity flat lithium batteries.

Luxtella is the brand name of luminaires produced by

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