

## Why CLEVEO LED Street Lamp?

### LOW BILLS

Low power consumption of CLEVEO lamps means lower electricity bills. The source of additional savings includes low maintenance costs as the lamps can be maintenance-free for years.

### ECOLOGY

Low electricity consumption combined with the possibility of using the solar batteries translates into environmental protection. Moreover, the materials used for production fulfil the requirements of the RoHS directive and the lamp may be 100% recycled.

### COMFORT AND FUNCTIONALITY

The use of LEDs with high reliability and long lifespan expressed in tens of thousands of hours means that their maintenance is not necessary for a long time. Furthermore, the use of the intelligent digital controller broadens the possibilities of CLEVEO lamps through extending the time of their operation and adjusting the lamps to the needs of a given application.

### SIMPLE INSTALLATION

The installation of the CLEVEO fixture with classic and tested structure is as easy as the installation of an ordinary street lighting fixture. The additional advantage of the lamp is the possibility of optimum configuration of its parameters.

### SAFETY

The relatively high Colour Rendering Index, the Soft-Start function and uniform light distribution improve the visibility and increase the safety on roads.

### PRESTIGE

CLEVEO lamps are becoming a part of the landscape and thus they shape the atmosphere of a place where they are installed. Their unique features guarantee that once you see them, you will never forget them. They are appreciated by people with vision which takes into account both the safety of road users and the environmental protection.

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Better Lighting and Smaller Bills

# CLEVEO

Intelligent LED Street Lamp



Distributors  
for CLEVEO  
Wanted



CLEVEO means intelligent, cost and energy-effective LED street lamp for the companies and authorities that is characterised by versatility and very good technical parameters. The combination of the unique light distribution shaping system, with digital control created an innovative product with high light efficiency and unique functionality. CLEVEO lamps are environmentally friendly. They are characterised by low power consumption, and their production involves only safe materials. The savings, higher comfort and environmental protection are the features which make CLEVEO LED street lamp a really good choice.

### POWER OF LIGHT

50 CREE XLamp power LEDs are used in the lamp. They are state of the art light sources with high light efficiency and long lifespan. They give optimum lighting with lower power consumption.

CREE LEDs are characterised by high Colour Rendering Index (CRI), as regards the street lighting standards, which directly translates into better visibility on the road. Only environmentally friendly materials are used for production of LEDs.

### ACCURATE LIGHTING

The heart of the lamp is the LED module with optics. The structure of the module involves an innovative solution that guarantees even distribution of light on the road, which reduces the contrast and increases the comfort and safety of road users.

The advanced optics and the possibility of placing each LED at a different angle give the unprecedented possibility of directing the light exactly where it is required. In addition, the minimisation of light loss decreases the costs of electricity.

### INTELLIGENT CONTROL

The brain of the lamp is the digital controller. Its task is to intelligently control the optimum operation of the entire lamp, which means unique functionality, lower power consumption and longer lifespan.

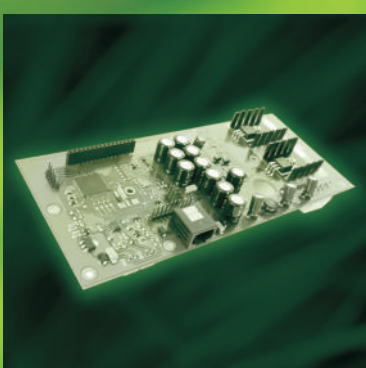
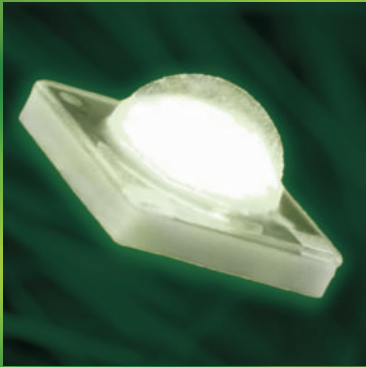
The controller's role is to make sure that the lamp gives fixed luminous flux defined by the user. In addition, it has the function of smooth increase of brightness after switching on, which is a unique function in LED lamps and increases the safety of road users. Furthermore, the controller may operate in an energy-saving mode during late night hours which allows to reduce energy consumption even by 30% additionally.

### DURABILITY AND ATTRACTIVE SHAPE

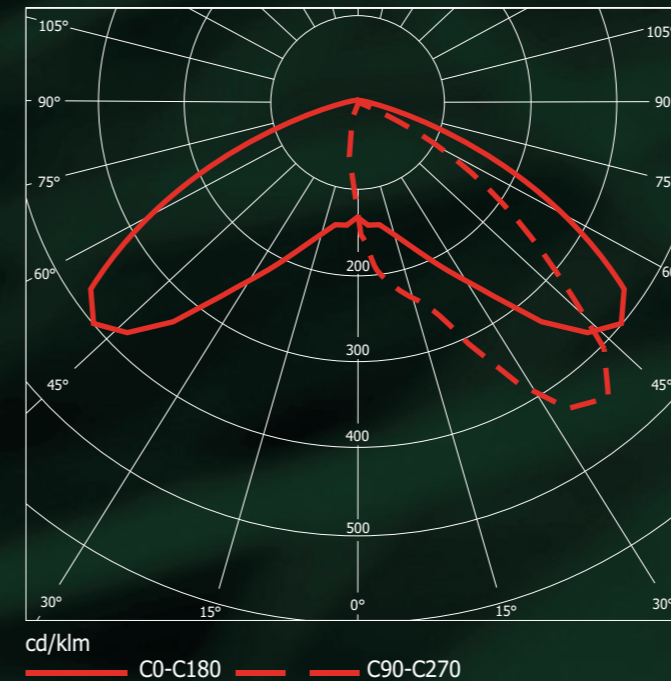
The fixture made of aluminium and tempered glass effectively draws heat away from the LEDs. The tilt of the fixture may be precisely adjusted and installed on various poles thanks to the special assembly fitting. Streamlined shape of the fixture with low air resistance coefficient combined with its availability in many different colours makes it visually attractive.

### FUNCTIONAL PORTABLE INTERFACE

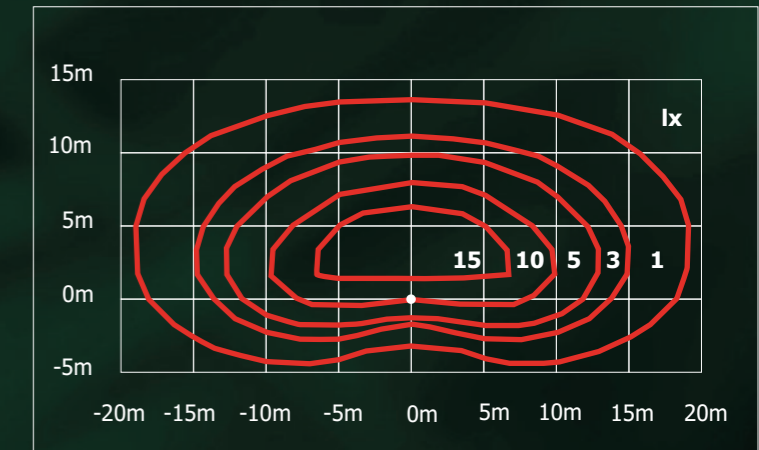
The interface allows the two-way communication with the lamp. On one hand, it gives the possibility of controlling the lamp through adjusting its parameters in accordance with the needs of the user, and on the other hand, it allows the reading of statistical information collected by the lamp. This data is helpful when making correct decisions aimed at reaching the compromise between the operation costs, the lighting quality and comfort.



### LIGHT INTENSITY DISTRIBUTION CURVES (65W)



### ILLUMINANCE DISTRIBUTION ON THE GROUND LUMINAIRE CLV-012-CW, POWER 65 W, POLE HEIGHT 8 m



### TECHNICAL PARAMETERS

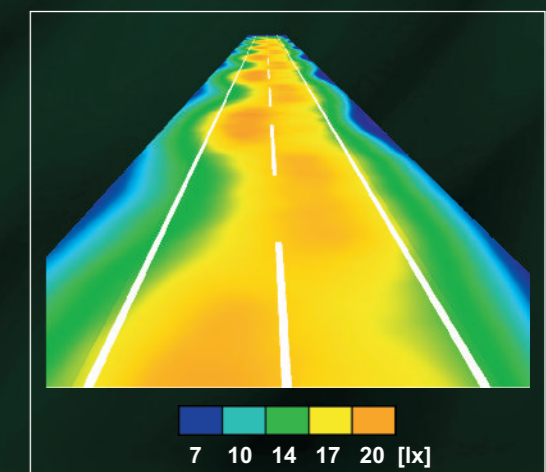
Luminaire symbol	CCT	Output luminous flux depending on adjusted power consumption of CLEVEO *		
		Min (40 W)	Typical (65 W)	Max (90 W)
CLV-012-CW	Cool White	2800 lm	4100 lm	5700 lm
CLV-012-NW	Natural White	2400 lm	3800 lm	5300 lm
CLV-012-WW	Warm White	2200 lm	3600 lm	4900 lm

\* Prior to the installation of CLEVEO lamp the user has a possibility of adjusting the power consumption and brightness of the lamp in order to optimize these parameters to the needs of a given application.

Light Source	50 pcs. of CREE LEDs
LEDs Luminous Efficacy	> 100 lm/W
Color Rendering Index (CRI)	75 - 80
Adjustable Power Consumption	30 - 106 W
Dimming Signal	1 - 10 VDC
Supply Voltage	90 ~ 264 VAC
Electrical Insulation Class	Class I
International Protection Rating	IP 66
Operating Temperatures	-30 °C / +40 °C
External Dimensions	698 x 308 x 161 mm
Weight of the Luminaire	8,7 kg
Required Pole Ending	Diameter: 60 mm, Length: 120 mm
Adjusting of the Luminaire Inclination	Yes
Luminaire Finishing Colours	Body: RAL 9006, Cover: Silver Renoir
Luminaire Materials	Aluminium Alloy, Toughened Glass

### SAMPLE ROAD LIGHTING DESIGN

Luminaire: CLV-12-CW  
 Power Consumption: 65 W  
 Pole Height: 8 m  
 Distance Between Poles: 20 m  
 Road Width: 6 m  
 Road Coating: R1, q0: 0.100  
 Maintenance Factor: 0,9



Parameters	Lm [cd/m²]	U0	U1	T1 [%]	SR
Class Me3a	≥1,0	≥0,4	≥0,7	≤15	≥0,5
Results	1,5	0,8	0,7	3	0,5