

Street and road lighting

Ordering information

Street luminaire code includes

1. Street luminaires models naming
2. Rated power of street luminaires
3. Efficacy code of LED light source
4. Colour and CCT code of LED light source
5. Light distribution code
6. Options (not required), listed in any order:
 - Safety class
 - Additional power supply cable
 - CLO activation
 - Dimming schedule
 - Surge protection
 - Standard deviation colour matching 3x

1. Street luminaires models naming

Model 28 – 560 mm body length

Model 49 – 600 mm body length

Model 91 – 800 mm body length

2. Rated power of street luminaires

Possible power variants for different efficacy of light source and dimming options with regard to models. Choice of luminaires is available only among the listed models.

Name	Available Power, W			
	20	30	40	50
Model 28	20	30	40	50
Model 49	60	80	100	120
Model 91	140	160	180	200
Model 28 (CLO activated)	20	30	40	-
Model 49 (CLO activated)	50	60	80	-
Model 91 (CLO activated)	100	120	-	-
Model 28 (DSL activated)	20	30	40	50
Model 49 (DSL activated)	60	80	100	-
Model 91 (DSL activated)	120	140	160	-

3. Efficacy code of LED light source

Efficacy is measured using luminaires without lenses and removed glass to take into account efficiency of the driver.

STD (Standard Line) modification:

- Efficacy of LED source **120 lm/W** for colour code **757, 750, 740**
- Efficacy of LED source **100 lm/W** for colour code **835, 830**
- Efficacy of LED source **80 lm/W** for colour code **927**

XTR (Extra Line) modification:

- Efficacy of LED source **135 lm/W** for colour code **757, 750, 740**
- Efficacy of LED source **115 lm/W** for colour code **835, 830**
- Efficacy of LED source **95 lm/W** for colour code **927**

4. Colour and CCT code of LED light source

757 - CRI 70 min, CCT 5700 K

750 - CRI 70 min, CCT 5000 K

740 - CRI 70 min, CCT 4000 K

835 - CRI 80 min, CCT 3500 K

830 - CRI 80 min, CCT 3000 K

927 - CRI 90 min, CCT 2700 K

5. Light distribution code

Dxxx – diagrams to illuminate road infrastructure

Axxx – diagrams to illuminate territories

See *IES diagrams file* for more details.

6. Options

PES2 (Protection Against Electric Shock Class 2)
Luminaires of electric safety class 2 (class II) go with two wires cable: L-N

Important! *When this option is not specified, luminaires of electric safety class 1 are produced (class I), with three-wire cable L-N-Ground.*

CBxx (Cable)

It is used to order luminaires with longer cable, xx is cable length ranging from 8 to 15 meters with 1 meter increment.

When this option is not specified, cable length is 0.5 m. Number of wires in the cable is determined by the class of electric safety. Wires used in the cable have 1.5 mm² cross section.

CLO (Constant Light Output) Function activation

Profile: entry level is 100%, every 5.000 working hours (approximately 2.5 years) the level is increased by 2.5%, 130% accomplish period is 60.000 hours (approximately 15 years).

Important! *When CLO is activated, nominal (rated) power equals initial luminaire power. Having reached 60.000 working hours, luminaire power will become 130% of initial level.*

DSLx (Dimming Schedule)

This option includes Schedule #1/Schedule #2/Schedule #3, where x=time chart option.

Profile	100%	70%	50%	70%	100%
DSL1 Schedule #1	15h-20h	20h-22h	22h-06h	06h-07h	07h-10h
DSL2 Schedule #2	15h-21h	21h-23h	23h-05h	05h-06h	06h-10h
DSL3 Schedule #3	15h-23h	23h-01h	01h-04h	04h-06h	06h-10h

SPD (Surge Protection Device)

Surge protection device installed in luminaire to protect against surges and spikes, it withstands a hit of 10 kV / 10 kA.

When this option is not chosen, the luminaire will withstand voltage of 3.75 kV.

SDCM3 (Standard Deviation Colour Matching 3x)

It's chromaticity coordinates of LED set fall within 3 SDCM (or 3-step MacAdam ellipse).

When this option is not specified, chromaticity coordinates of LED set fall within 5 SDCM (or 5-step MacAdam ellipse).

Samples

Model 28/50W-STD740-D299-SPD

560 mm body length, power consumption 50W, 120lm/W LED lamp efficacy for CRI 70/CCT 4000K, light distribution code #299, 10kV/10kA surge protection, cable 0.5 m 3G 1.5 mm², class I.

Model 49/100W-XTR830-A140-PES2-CB08-DSL2-SDCM3

600 mm body length, power consumption 100W, 110lm/W LED lamp efficacy for CRI 80/CCT 3000K, light distribution code #140, class II, cable 8 m, dimming schedule #2, chromaticity coordinates of set of LEDs all fall within 3 SDCM.