

STREET LIGHTING UNITS CODING SYSTEM

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1. Designation of street lighting units

The outdoor lighting projects usually contain street lighting units of different types that are applied to different traffic situations. A street lighting unit is a pole (mast) with several luminaires or a single luminaire, or any other consumer in the outdoor lighting network (for example, waiting pavilion or outdoor advertisement).

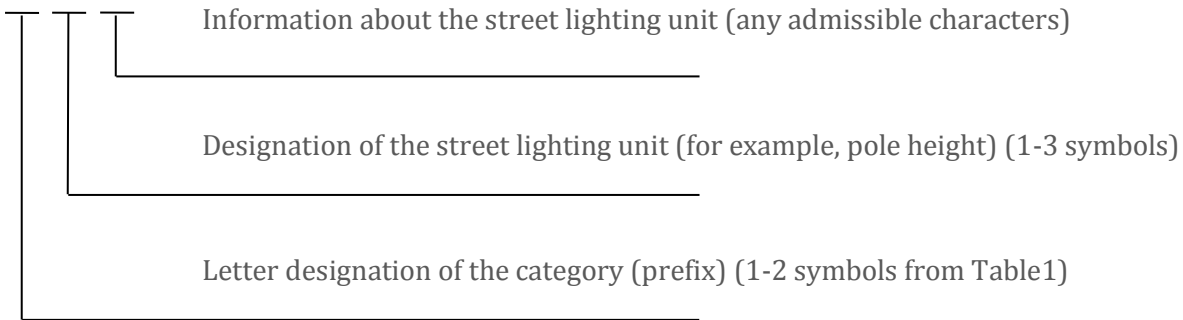
There are two parameters to determine the street lighting unit:

- **A street lighting unit code.** The main parameter is used to identify the street lighting units in the Data Library and in project files (it should be unique for each street lighting unit);
- **A street lighting unit brief description.** The auxiliary parameter is used to provide additional information about the street lighting unit on the plans and schemes.

2. Street lighting unit code

To assign the codes to the street lighting units, it is recommended to use the designation system below. The street lighting unit code should consist of the combination of symbols, numbers, and service digits. Each category has its own letter prefix (see Table 1).

A 12 ...



Note. It is allowed to use only English alphabet characters, numbers, and service digits in the codes of the street lighting units, except for the following ones:

double quotes < “ >, backslash < \ >, two-spot < : >, and question mark < ? >.

The letter prefixes recommended for designation of street lighting unit categories are shown in the Table 1.

The examples of street lighting unit designations are shown in the Table 2.

Letter prefixes recommended to designate the categories

Table 1

Street lighting unit category.	Recommended prefix	Explanation	Note
Road Lighting Poles 1	A	Street lighting units for roads. Pole (mast) has one/no console	One pole (mast) can contain up to 50 luminaires
Road Lighting Poles 2	B	Street lighting units for roads. Pole (mast) has two and more consoles	
Pedestrian Lighting Poles	C	Street lighting units for sidewalks. Pole with/without consoles	
	D	Special street lighting units for pedestrian crossings. Pole with/without consoles	
Park Lighting Poles	E	Street lighting units for parks. Pole with/without consoles	
	H	Street lighting units for general lighting with the pole of decorative design	
Bollards	G	Bollards and luminaires on the supports	
Floodlight Masts	F	Floodlight masts	One pole (mast) can contain up to 50 luminaires
Special Masts	M	Poles (masts) of special purpose with/without consoles (for example, signal, trolley, or tram masts with luminaires)	
Overhead Line Poles	P	Wooden (or concrete) overhead line poles with luminaires	
Wall Luminaires	K	Luminaires with/without consoles to be mounted on the wall	
Special Lighting	U	Suspended luminaires	Single luminaire or group of them
	T	Tunnel luminaires	
	S	Embedded luminaires	
	L	Single floodlights (for example, architectural lighting)	
	D*	Special luminaires for pedestrian crossing lighting	
Additional Objects	O	Waiting pavilions	
	R	Outdoor advertisement	
Existing Luminaires	Y	Existing luminaires	Single luminaire or group of them
	Z	Replaceable luminaires	

Street lighting unit code	Brief description of the street lighting unit	Explanation
A12K25b+	H12 LED200W	A - category of street lighting unit; 12 - pole height of 12m; K25 - console length of 2.5m; b - additional character used to designate main luminaires; + - street lighting unit has an additional luminaire of decorative lighting H12 - pole height of 12m; LED200W - power demand of main luminaire
B8KK1a	H8 2xLED50W	B - category of street lighting unit; 8 - pole height of 8m; KK1 - console length of 2x1m; a - additional character used to designate main luminaires; H8 – pole height of 8m; 2xLED50W – power demand of main luminaire
R1	200W	R – category of street lighting unit “Outdoor advertisement“; 200W - power demand

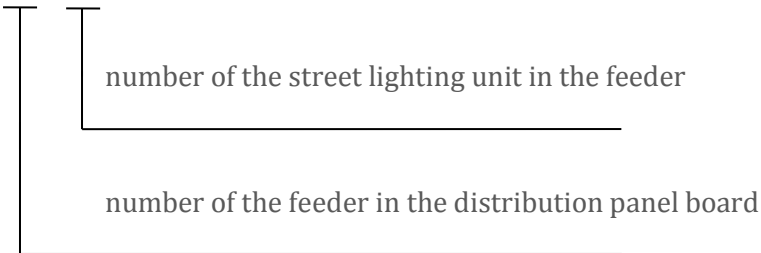
Notes:

1. The above designation system is only recommended. The user can use any street lighting unit designation system suitable for local conditions.
2. It is recommended to include the tables with the detailed descriptions of the street lighting units together with the description of the applied designation system to the street lighting project.

3. Numeration of street lighting unit blocks on plans and schemes

The following system is used to number the blocks of street lighting units in the outdoor lighting feeders:

F1 - 2



4. Video tutorials and examples

We recommend to watch the video tutorials on our website <https://meteorcalc.com/videos> before you start to work. These videos are available on youtube too. (Please, watch in full screen mode with quality set to 1080p).

We especially recommend watching the following video:

- | | |
|-------------------------------------|---|
| MeteorCalc SL features overview | https://www.youtube.com/watch?v=1qN6aVMzKe8 |
| Creation of a street lighting model | https://www.youtube.com/watch?v=7jThjPSh53w |
| Data Library Manager. Add new item | https://www.youtube.com/watch?v=26xxEryU594 |

All videos have English narrations.

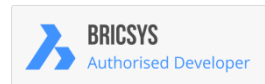
The examples of street lighting units coding system you can find on our website

<https://meteorcalc.com/resources> You can download the following dwg-files:

MeteorCalc_SL_Example_1_Street_Lighting.dwg, MeteorCalc_SL_Example_2B_Park_Lighting_Model.dwg and MeteorCalc_SL_Example_3_Tunnel_Lighting.dwg.

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