

SQUARES

MIRACLE PRAHA 5S

The Miracle Praha 5S lantern is intended for lighting pedestrian zones, narrow streets and historic parts of cities. It imitates a smaller lantern from the end of the 19th century. The maximum light output of up to 9,600 lm is provided by 5 LED modules with a color temperature of 1,800 K. Each of the modules can be controlled remotely and the intensity can be continuously regulated until it goes out. A powerful LED (COB, 2,200 lm) with variable Tc from 1,800 K to 4,000 K is installed in the central part. This light source can also be remotely controlled for intensity and color. Alternatively, the direction of the light can be adjusted with suitable lenses in order not to shine on the facade of the house or to direct the light flow onto the road. The side panels are made of Plexiglas. They can therefore be colored or engraved with suitable motifs, which creates interesting effects.



mechanical design

Design	historic 5-sided lantern from the end of the 19th century
Dimensions	430 x 750 mm
Material	steel structure with canopy decorated with cast iron, powder coating, PMMA side panels
Paint color	according to customer specification
Opening	side door or canopy opening
Holding	to the pole or boom, screws
Mechanical resistance of PMMA	IK08, the advantage is non-shattering
Degree of protection	IP53
Weight	15 kg

light source

LED modules 1K8	1,800 K, 0 to 80 W / 9,600 lm (remote controlled)
Central COB	1,800 K to 4,000 K, 0 to 32 W / 2,200 lm (remote controlled)
Optional	RGB instead of COB, 0 to 24W (remote controlled)
Color Rendering	>70
ULOR	0%
Power	0 to 110 W

optics

Base	thickness 3 mm, cast acrylic PMMA, sandblasted or clear
COB light direction	selectable radiation combination: IES II, III and V / spot 60°, 90°, 120°
Direction of light 1K8	standard without optics ~ 120°, optionally each module can have its own IES II, III or V lenses
Assembly	replaceable by user as needed
Identification	in the AnyCity system

Design

The basic structure of the lantern is made of sheet steel. The decorations are cast from gray cast iron. Final color design according to customer requirements. The side panels are made of PMMA material (plexiglass), which can be either clear, sandblasted or colored tinted (e.g. smoke to shield the facade). Plexiglas also allows the engraving of various motifs, which creates interesting glowing ornaments in the light of a lantern at night. The basic light surface of the LED modules is hidden behind sandblasted plexiglass, which softens the light and creates a pleasant all-surface effect. It is possible to attach optics (lenses) to the modules, which will direct the light flow to the required places. The central COB is covered with a large silicone lens for further light direction. Assembly and disassembly of the main parts is easy. The construction of the light part is designed so that it is possible to easily modernize existing old lanterns with a light bulb or discharge lamp. The lamp is powered by a 48 V DC voltage source, which is located at the base of the column or electrical box on the facade. Either a CAT6 cable or a traditional CYKY 3x1.5mm cable is used to connect the lamp and the source.

Functions

It is possible to remotely control the light flux intensity of each of the 5 LED modules in the range of 0 to 100%. After installation, the parameters can be easily adjusted individually in each light location. For the central COB, it is also possible to change the replacement chromaticity temperature in the range of 1,800 K to 4,000 K and adjust its operation according to the season, holidays or other local requirements. Optical lenses are replaceable at each position as needed, while it is possible to choose from the characteristics of IES type II, III and V. The final combination of lenses for the given location is stored in the AnyCity system. Instead of a central COB, the lantern can be equipped with a group of full-color RGB LEDs, which then create the desired atmosphere or create a tourist-interesting show.