

CREE Led lamps for public lighting



BY THE CZECH COMPANY EL-INSTA

MAXIMA, **VARIA** and **DEKORA** series lamps are all-aluminium LED street lamps of Czech manufacture. They are a synthesis of the latest technological and construction techniques. All lamps are fitted with an aluminium bracket with a joint, enabling smooth bending by 90° in both directions. The lamp (mounting diameter of 60 mm) can then directly be placed not only on the bracket but also on the shaft. The lamps have been designed for lighting of pavements, parks, streets, areas, etc. Their economic advantage includes up to 70% saving on electrical energy and minimum maintenance costs.

Characteristics

- ✓ Top-quality LED Cree with very low degradation (app. 20% after 70,000 hours)
- ✓ High-quality Mean Well sources
- ✓ Immediate start for maximum light power
- ✓ Unlimited number of switch-on and switch-off times
- ✓ All-aluminium design, does not contain any rusting parts
- ✓ Surge protection
- ✓ They do not emit any ultraviolet or infrared radiation
- ✓ Sophisticated direction indicator light – on only where required
- ✓ Soft start of current consumption
- ✓ They do not contain any hazardous substances (lead, mercury polychlorinated biphenyls, etc.)
- ✓ Quiet operation
- ✓ Development, manufacture and servicing in the Czech Republic
- ✓ 5 year warranty

MAXIMA LED LAMP

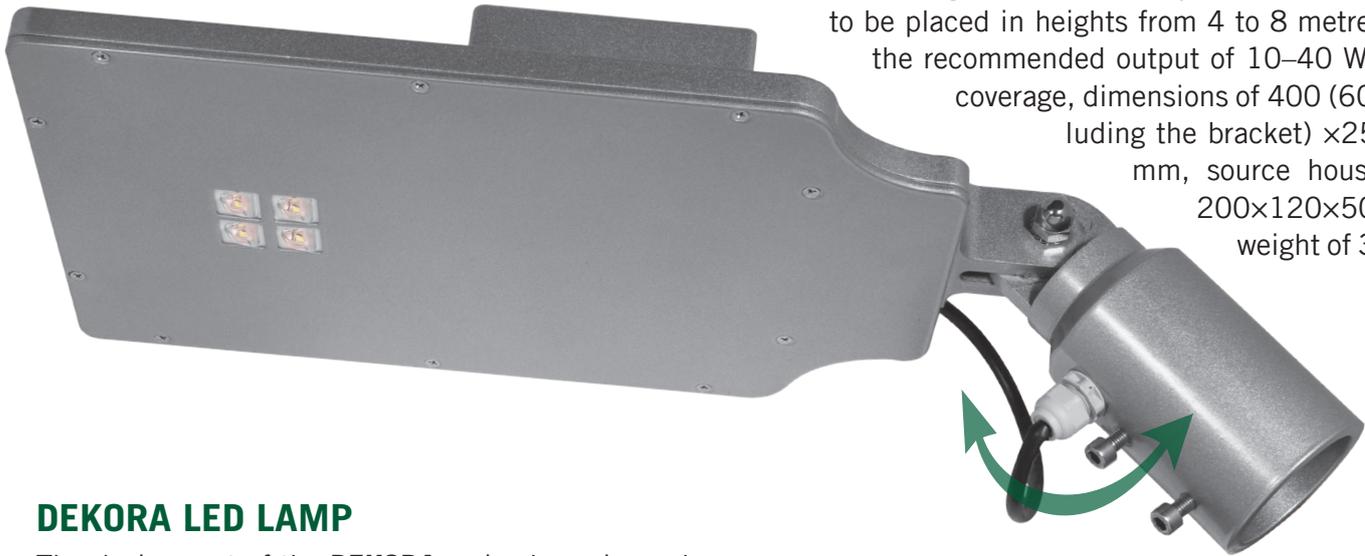
The robust design of the **MAXIMA** series lamp is made – except the cover and the clamping system - of one piece of aluminium with massive cooling fins and an external finish with powder paint according to the RAL colour card. The light active part comprises 2 LED COB multichips by the American company "Cree" (CXA2530 as standard); the luminous flux is directed to the required angle by glass lenses of Czech manufacture. The overall solution of the light active part of the lamp limits the production of light pollution to as low levels as possible and extends the possibility of efficient directing of the LED light not only by bracket bending but also by smooth turning of both glass lenses. The use of a design with two COB multichips reduces their tempera-

ture and work load and extends not only the life but also increases the specific output. The sealing elements include a silicone O-ring around the lamp cover periphery and two water jet-cut silicone profiles at the bottom and upper side of the lenses. LED supply is provided by a high-quality and proven controllable source by Mean Well. The **MAXIMA** lamp has been designed to be placed in heights from 8 to 12 metres with the recommended output of 50–100 W. IP66 coverage; dimensions of 400 (600 including bracket with joint) x250x44 mm, weight of 5.9 kg.



VARIA LED LAMP

The lightweight design part of the **VARIA** series lamp is made – except the source housing, cover and the clamping system – of one piece of aluminium without fins and with an external finish with powder paint according to the RAL colour card. The light active part of the **VARIA** series lamp comprises LED chips by the American company "Cree" (in the basic 4x XM-L version connected on PCB); the luminous flux is directed to the required angle by four special plastic lenses by the Ledil company that allow –

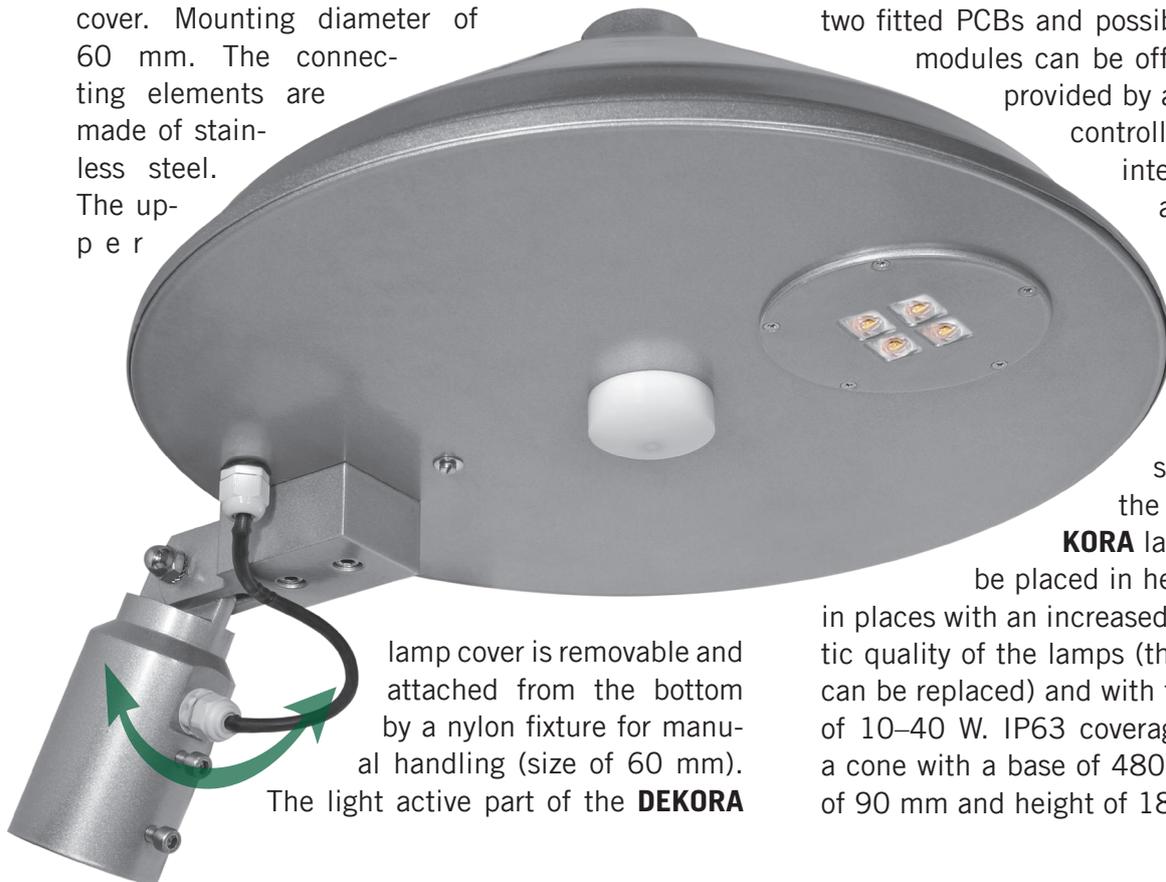


when easily replaced – a broad range of optional light characteristics. A lamp with two PCBs and possible swivelling of the lens modules can be offered, too. Strada 2x2-DWC lenses on one platform are used as standard. The sealing elements include a silicone O-ring around the lamp cover periphery and source housings; there are two water jet-cut silicone profiles around the optical module. LED supply is provided by a high-quality and proven source by Mean Well placed on the top of the lamp in the source aluminium sheet housing. The **VARIA** lamp has been designed to be placed in heights from 4 to 8 metres with the recommended output of 10–40 W. IP66 coverage, dimensions of 400 (600 including the bracket) x250x15 mm, source housing of 200x120x50 mm, weight of 3.9 kg.

DEKORA LED LAMP

The design part of the **DEKORA** series lamp is made of aluminium structural elements with an external finish with powder coating according to the RAL colour card. The body design comprises a bottom supporting aluminium circle and an upper aesthetically variable decorative aluminium cover. Mounting diameter of 60 mm. The connecting elements are made of stainless steel.

The upper



lamp cover is removable and attached from the bottom by a nylon fixture for manual handling (size of 60 mm). The light active part of the **DEKORA**

series lamp comprises LED chips by the American company "Cree" (4x XM-L connected on PCB); the luminous flux is directed to the required angle by four special plastic lenses by the Ledil company (Strada 2x2-DWC as standard) on one platform. A lamp with two fitted PCBs and possible swivelling of the lens modules can be offered, too. LED supply is provided by a high-quality and proven controllable source by Mean Well, integrated in the lamp on a supporting circular plate. The sealing elements include the EPDM self-adhesive micro profile around the lamp cover periphery and two water jet-cut silicone profiles around the optical module. The **DEKORA** lamp has been designed to be placed in heights from 4 to 8 metres in places with an increased emphasis on the aesthetic quality of the lamps (the upper decorative cover can be replaced) and with the recommended output of 10–40 W. IP63 coverage; dimensions comprise a cone with a base of 480 mm, with an upper area of 90 mm and height of 180 mm; weight of 4.9 kg.