



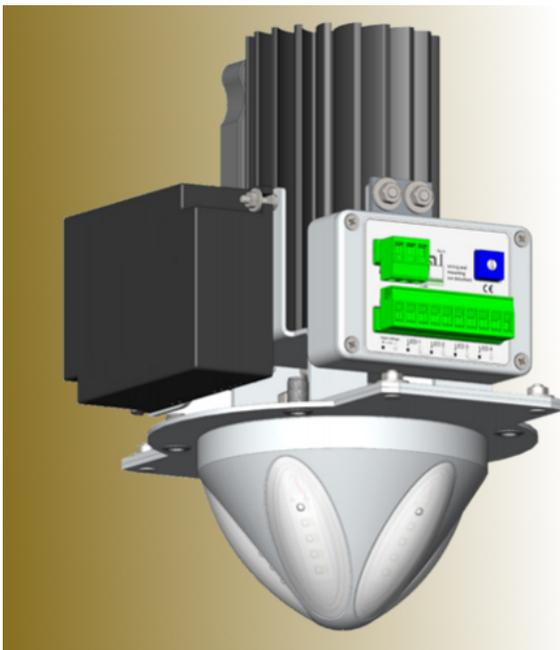
Friedhelm TRAPP GmbH

Ostring 15 - 63533 Mainhausen - Zentrale: 06182/9294-5 - Fax: 06182/9294-69 - Mail: trapp@f-trapp.de

www.f-trapp.de

KEGEL LED-Modul NewNight®-Series

LED-installation kit for hanging and top luminaires for retrofitting to existing Street Lighting



The CONE LED module from the New-Night® series is the innovative solution for the exchange of MVL/HPS illuminants in Street Lighting.

- energy savings up to 80%
- luminant for historic lighting
- maintenance free LED Engine

Optional features:

- dimming the entire luminaire
- dimming of subsegments with different asymmetrical light distributions

Technical Specification

| | |
|-----------------------|-----------------------|
| Performance | 32 Watt |
| LED lifetime | > 60.000 Hrs. |
| LED color temperature | 2700 - 5500k |
| color rendering | CRI = 85 |
| luminous flux | 2.620 lm (32 Watt) |
| Warranty | 5 years |
| IP Protection | IP 65 |
| application area | - 30° to +55° Celsius |

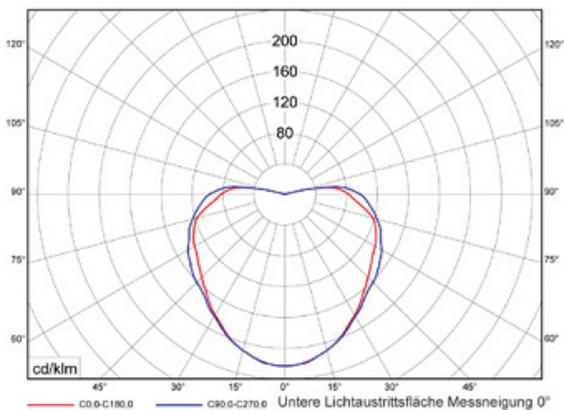


www.f-trapp.de

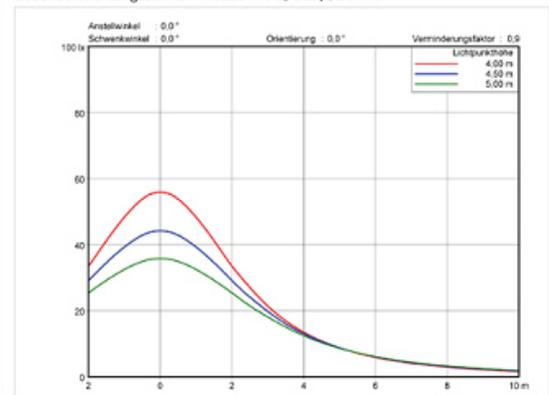
KEGEL LED-Modul NewNight®-Series

Photometric diagrams

Polardiagramm – Kegel mit 25 LED, 350 mA, 500 mA, 700 mA



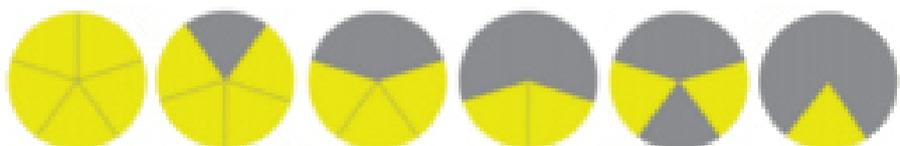
Bodenbeleuchtungsstärke – KEGEL mit 25 LED, 700 mA



Practical example

LED CONE kits with Maxi Dimm 3000

asymmetrical light distribution by individual control of the LED segments, about the blackout of home zones in residential streets. In addition, the luminous LED segments can be dimmed.





Friedhelm TRAPP GmbH

Ostring 15 - 63533 Mainhausen - Zentrale: 06182/9294-5 - Fax: 06182/9294-69 - Mail: trapp@f-trapp.de

www.f-trapp.de

BeeLED-Universalmodul NewNight®-Series

LED module with special optics, for symmetric / asymmetric light distributions



The BeeLED module from the New-Night® series is the innovative solution for exchanging MVL/HPS illuminants in top luminaires (round jacket luminaires).

- energy savings up to 80%
- luminant for historic lighting
- maintenance free LED Engine

Optional features:

- dimming the entire luminaire
- dimming of subsegments with different asymmetrical light distributions

Technical Specification

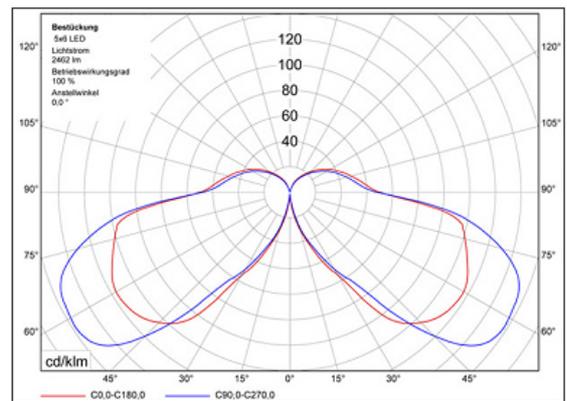
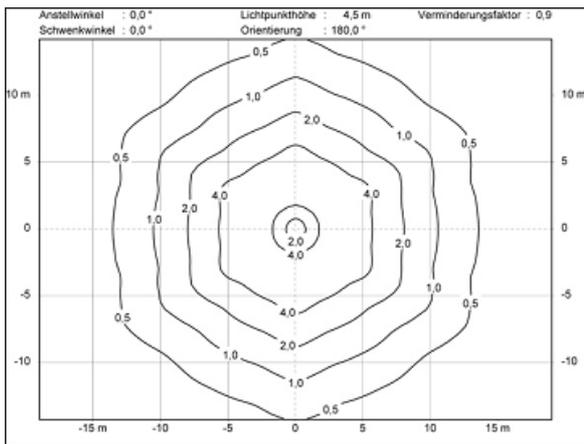
| | |
|-----------------------|----------------------|
| Performance | 32-70 Watt |
| LED lifetime | > 60.000 Hrs. |
| LED color temperature | 4100 K |
| color rendering | CRI = 85 |
| luminous flux | > 3,440 lm (38 Watt) |
| Warranty | 5 years |
| IP Protection | IP 65 |
| application area | - 40 ° to + 55 ° C |



www.f-trapp.de

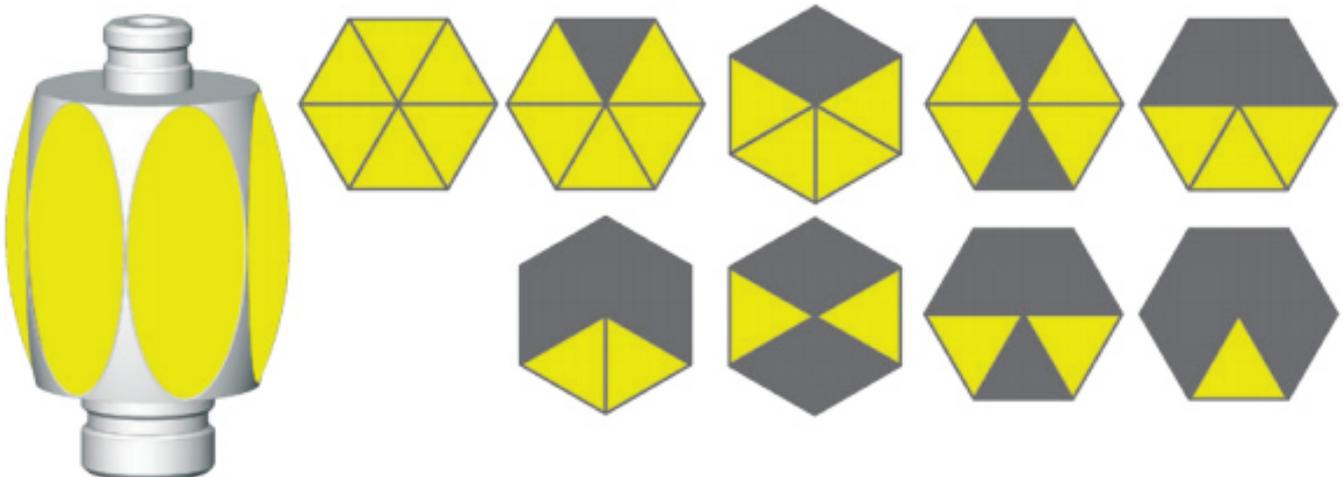
BeeLED-Universalmodul NewNight®-Series

Photometric diagrams



Practical example LED CONE kits with Maxi Dimm 3000

asymmetrical light distribution by individual control of the LED segments, about the blackout of home zones in residential streets. In addition, the luminous LED segments can be dimmed.





Friedhelm TRAPP GmbH

Ostring 15 - 63533 Mainhausen - Zentrale: 06182/9294-5 - Fax: 06182/9294-69 - Mail: trapp@f-trapp.de

www.f-trapp.de

LURA-Universalmodul NewNight®-Series

LED module with special optics, for symmetric / asymmetric light distributions



The BeeLED module from the New-Night® series is the innovative solution for exchanging MVL/HPS illuminants in top luminaires (round jacket luminaires).

- energy savings up to 80%
- luminant for historic lighting
- maintenance free LED Engine

Optional features:

- dimming the entire luminaire
- dimming of subsegments with different asymmetrical light distributions

Technical Specification

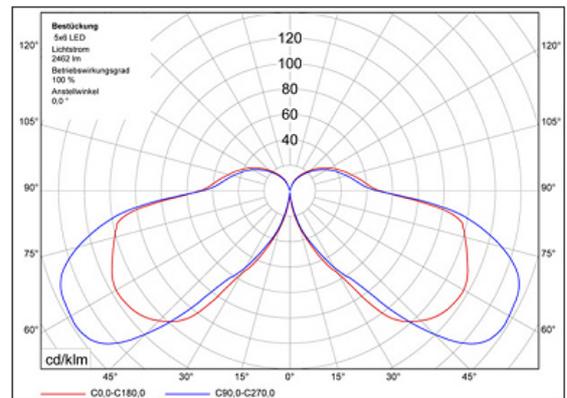
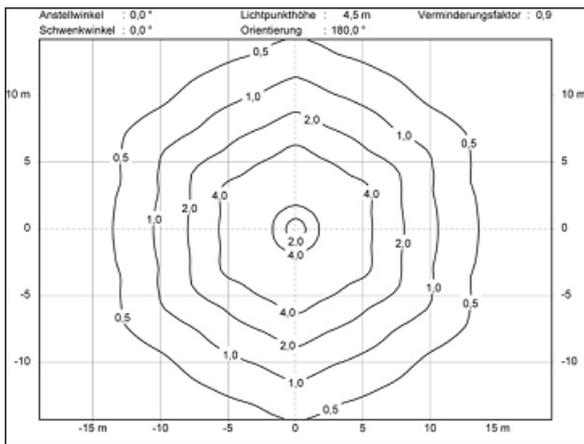
| | |
|-----------------------|----------------------|
| Performance | 32-70 Watt |
| LED lifetime | > 60.000 Hrs. |
| LED color temperature | 4100 K |
| color rendering | CRI = 85 |
| luminous flux | > 3,440 lm (38 Watt) |
| Warranty | 5 years |
| IP Protection | IP 65 |
| application area | - 40 ° to + 55 ° C |



www.f-trapp.de

LURA-Universalmodul NewNight®-Series

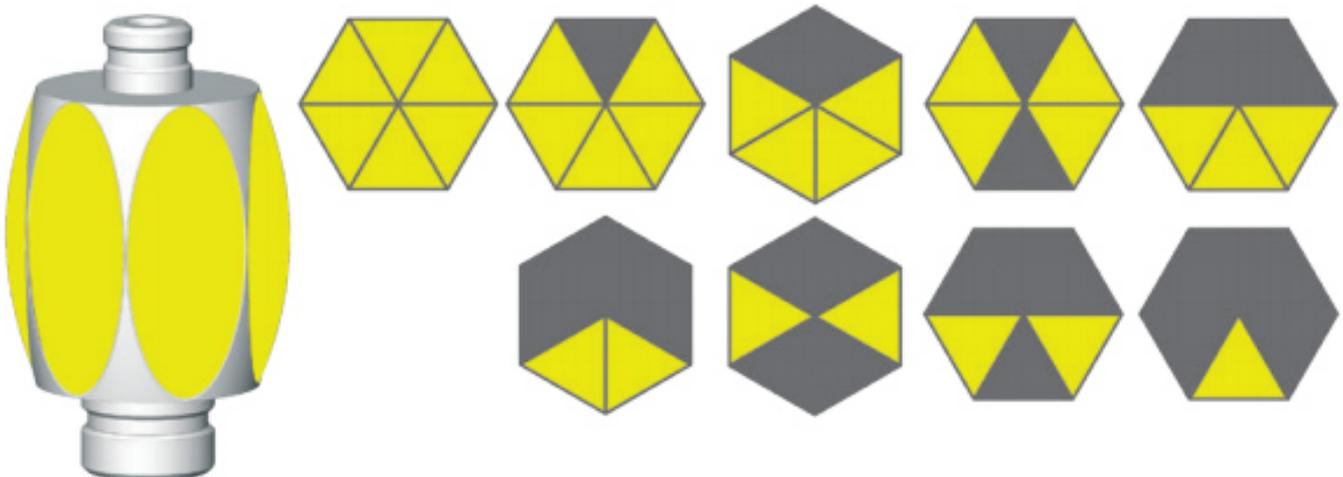
Photometric diagrams



Practical example

LED CONE kits with Maxi Dimm 3000

asymmetrical light distribution by individual control of the LED segments, about the blackout of home zones in residential streets. In addition, the luminous LED segments can be dimmed.





Friedhelm TRAPP GmbH

Ostring 15 - 63533 Mainhausen - Zentrale: 06182/9294-5 - Fax: 06182/9294-69 - Mail: trapp@f-trapp.de

www.f-trapp.de

City LED-Universalmodul NewNight®-Series

NewNight city LED conversion kits for street lights: Retooling existing lights to LED



The city LED conversion kits from the NewNight series now offer the first opportunity, existing road luminaires with NAV / HQL illuminants convert to efficient LED illumination.

So that our supplier is one of the first providers of professional LED conversion kits for street lighting for (almost) all major housing forms of suitcases luminaires.

The city LED conversion kits are available with different types of lens / different illumination characteristics and LED performance classes. They are characterized by excellent lighting values.

We provide cities and communities a cost-effective alternative to buying complete new luminaires, which persist existing pole installations and luminaires, it is merely replaced the illuminants Application of cityLED-conversion kits are:

- **Conversion of MVL/HPS on LED lighting**
- **Installation kits for different housing**
- **Completely ready for installation with all connections**
- **incl. LED driver and cooling system**
- **low-cost alternative for receiving your illuminating**



www.f-trapp.de

City LED-Universalmodul NewNight®-Series

Technical Specification

| | |
|--------------------|---|
| Dimensions | Variable and depends on the type and the mounting plate, with the road luminaire is converted |
| Heatsink | Aluminum, copper |
| LED-Cooling-Engine | High-power LED (chip-on-board module) with suitably configured heatsink with HP technology |
| LED lifetime | > 50,000 hours / 5 year warranty on the LED * |
| Radiating type | symmetric |
| Light spot height | 4 to 7 m |
| Dimmable | yes / 1 - 10 V interface / operation with MaxiDimm / Maxi-Plus controller or other LED drivers possible |
| Protection class | IP 65 |
| Temperature range | 20° up to +55° Celsius |
| Weight | from approx 1.0 kg, depending on the mounting plate |

LED Engine: L70-value according to the calculation reports the manufacturer for the installed LED modules, $^2 = Pi [W]$ depending on - indications selected forward voltage and current supplied to the LED module and LED driver configuration / Power Supplies.

Electrical equipment: 230 V / 50-60 Hz / IP 65 / Protection class I or II / manufacturing according to DIN EN, VDE regulations, the product complies with EMC regulations.

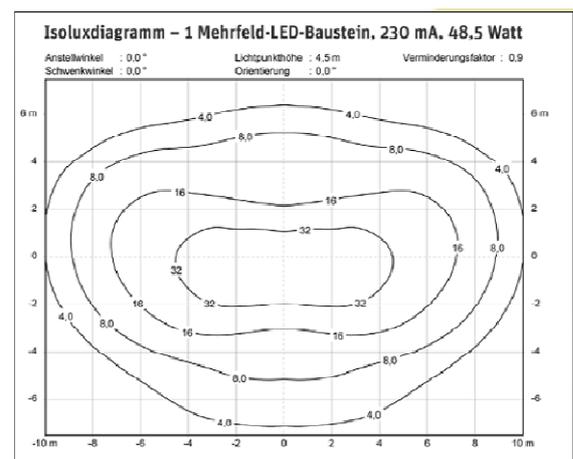
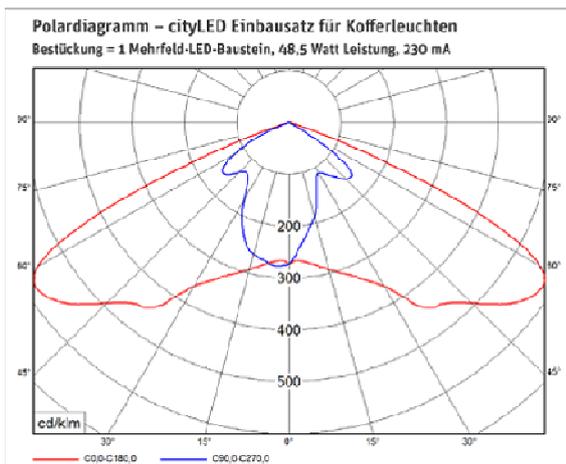
All the features can be modified according to your wishes; all technical specifications and LED power values can be modified within the scope of technical progress without prior notice. Color renderings, illustrations and drawings serve to illustrate and may differ from the original, previous data sheets and price lists lose validity.



www.f-trapp.de

City LED-Universalmodul NewNight®-Series

Photometric diagrams



LED color temperatures / LED luminous flux and power consumption

| IF [mA] | 4.000 K | 5.000 K | Pi[W] |
|---------|----------|----------|----------------------|
| 600 mA | 2.100 lm | 2.170 lm | 27 Watt ² |
| 720 mA | 2.490 lm | 2.580 lm | 32 Watt ² |
| 960 mA | 3.290 lm | 3.410 lm | 39 Watt ² |