



Kegel LED – comfort and lighting performance in one

Kegel LED Small

The Kegel luminaire family represents a timeless lighting concept, with an installed base already in excess of one million pieces. The wide range of standard mix-and-match components enables luminaire shapes to be varied to suit the specific demands of the environment while retaining the technical heart of the lantern. This modularity, in combination with dedicated optics, ensures a highly efficient solution for many lighting applications. All this wrapped up in an extremely vandal-resistant package. As part of our ongoing product development program, the popular Kegel 2000 luminaire family is now available in an energy-efficient RETROLED version. Existing Kegel luminaires can easily be upgraded to LED by means of a special RETROLED kit.

Benefits

- Timeless design for modern and classical environments
- Energy-saving LED solution – reduces carbon footprint
- Easy installation and maintenance
- Equipped with Service tag, a QR-based identification system that makes each luminaire uniquely identifiable and provides maintenance, installation and spare part information

Features

- Standardized components allow mix-and-match
- Dimming, CLO and L-Tune options
- Solid luminaire construction
- Retrofit solution for installed base

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Application

- Traffic routes, parking areas
- Residential streets/areas, pedestrian paths/walkways, squares/parks and playgrounds, parking areas
- City centers: squares and parks, pedestrian and shopping areas, public transport, pedestrian paths/walkways, parking areas

Specifications

| | | | | | | |
|---------------------------|------------------------------------|--|--|-------------------------------------|------------------------------------|---------------|
| Type | BDS701 (Kegel LED 2015 version) | Color Rendering Index | 75 (for 5700 K) | | | |
| | BDS702 (Kegel LED 2035 version) | | 80 (for 3000 and 4000 K) | | | |
| | BDS703 (Kegel LED 2040 version) | | Maintenance of lumen output - L80F10 | Depends on tuning (L-tune software) | | |
| | BDS721 (Kegel LED 2017 version) | | | Driver failure rate | 0,5‰ per 5000 hours | |
| | BDS723 (Kegel LED 2042 version) | | | | Operating temperature range | -25 to +35 °C |
| | BDS724 (Kegel LED 2037 version) | | | | | Driver |
| | Power/Data supply | Philips Xitanium | | | | |
| Light source | Built-in LED-module | Mains voltage | 220-240 V / 50-60 Hz | | | |
| Power | 10 to 75 W depending on tuning | Inrush current (depends on driver version): | 40 W: 65 A / 100 µs 75 W: 80 A / 150 µs 100 W: 80 A / 150 µs | | | |
| Luminous flux | 850 ot 9400 lm depending on tuning | | | | | |
| Luminaire efficacy | 85 ot 125 lm/W depending on tuning | | | | | |
| Correlated Color | 3000 K (warm white) | | | | | |
| Temperature | 4000 K (neutral white) | | | | | |
| | 5700 K (cool white) | | | | | |

Specifications

| | | | |
|------------------------------|---|---------------------|--|
| Controls system input | 1-10 V or DALI | Color | Canopy: black, RAL9005 (exterior) and wit, RAL9016 (interior) Frame: wit, RAL9016 Other RAL colors available on request |
| Dimming | 1-10 V | Connection | Plug / socket connector |
| | DALI | | |
| | DynaDimmer | | |
| | SDU | | |
| | Starsense RF OLC | | |
| Options | Including cable | Maintenance | Tool-less by unscrewing the lock nut on the canopy and pressing the spring clip on the gear tray |
| | Class II version | | |
| | Wired for cell (WFC), mini Photocell or NEMA socket | | |
| Optic | Micro lens optic | Installation | Post-top mounting: axial entry Ø 60 - 76 mm (60P or 76P) Recommended mounting height: 4-6 m Standard tilt angle: 0° Max SCx: 0.110-0.170 m² |
| Optical cover | Clear polycarbonate bowl, diamond structured (DMP) 2040/2042 versions available with diamond (DMP) or a fine frosted (PCF) structured bowl | | |
| Material | Canopy: glass fibre reinforced polyester | Cable gland | PG 16 |
| | Bowl: impact resistant and UV stabilized polycarbonate | Accessories | Special adapter for post top Ø 60 mm |
| | Frame: steel | Remarks | Retrofit LED unit available for updating existing luminaires |
| | Gear tray: galvanised steel plate and extruded aluminum cooling profile | | |
| | Spigot: die-cast LM6-quality aluminum | | |

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Versions



KEGEL LED 2015 - LED module
6000 lm - LED - 740 neutral white
- Power supply unit regulating -
220 to 240 V - 50 or 60 Hz -
Safety class I - Distribution extra
wide 50 - Polycarbonate bowl/
cover prismatic - Black - Luminaire
surge protection level until 6 kV
differential mode and 6 kV
common mode - - - Post-top for
diameter 76 mm



KEGEL LED 2015 - LED module
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Application Conditions

| | |
|-------------------|-----|
| Maximum dim level | 10% |
|-------------------|-----|

Approval and Application

| | |
|--|--|
| Mech. impact protection code | IK08 |
| Surge Protection (Common/Differential) | Luminaire surge protection level until 6 kV differential mode and 6 kV common mode |

Controls and Dimming

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|----------|-----|
| Dimmable | Yes |
|----------|-----|

General Information

| | |
|-----------------------------|--|
| Luminaire light beam spread | 23° - 8° x 152° |
| CE mark | CE mark |
| Light source color | 740 neutral white |
| Optical cover/lens type | Polycarbonate bowl/cover prismatic |
| Driver included | Yes |
| Flammability mark | - |
| Lamp family code | LED60 |
| Light source replaceable | Yes |
| Number of gear units | 1 unit |
| Optic type | Distribution extra wide 50 |
| Product Family Code | BDS701 |

Initial Performance (IEC Compliant)

| | |
|-------------------------------|---------|
| Init. Corr. Color Temperature | 4000 K |
| Init. Color Rendering Index | >70 |
| Initial luminous flux | 4560 lm |

Light Technical

| | |
|--------------------------------|------|
| Standard tilt angle side entry | 0° |
| Standard tilt angle posttop | 0° |
| Upward light output ratio | 0.08 |

Mechanical and Housing

| | |
|-------|-------|
| Color | Black |
|-------|-------|

General Information

| Order Code | Full Product Name | Service tag |
|--------------|--|-------------|
| 912300024047 | BDS701 LED60-4S/740 PSDD DW50 DMP BK CLO | Yes |
| 912300024056 | BDS721 LED60-4S/740 PSDD II DW50 DMP BK | - |

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