



Kegel LED – comfort and lighting performance in one

Kegel LED

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	BDS711 (Kegel LED 2000 version)
	BDS712 (Kegel LED 2010 version)
	BDS713 (Kegel LED 2016 version)
	BDS714 (Kegel LED 2022 version)
	BDS716 (Kegel LED 2060 version)
	BDS717 (Kegel LED 2025 version)
	BDS741 (Kegel LED 2003 version)
	BDS742 (Kegel LED 2013 version)
	BDS743 (Kegel LED 2019 version)
	BDS744 (Kegel LED 2023 version)
	BDS745 (Kegel LED 2029 version)
	BDS746 (Kegel LED 2063 version)
	BDS751 (Kegel LED 2005 version)
	BDS752 (Kegel LED 2012 version)
	BDS753 (Kegel LED 2018 version)
	BDS754 (Kegel LED 2020 version)
	BDS755 (Kegel LED 2027 version)
	BDS756 (Kegel LED 2065 version)
	BDS731 (Kegel LED 2030 version)
Light source	Built-in LED-module

Power	10 to 75 W depending on tuning
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)
Color Rendering Index	75 (for 5700 K)
	80 (for 3000 and 4000 K)
Maintenance of lumen output - L80F10	Depends on tuning (L-tune software)
Driver failure rate	0,5‰ per 5000 hours
Operating temperature range	-25 to +35 °C
Driver	Integrated programmable LED driver
Power/Data supply	Philips Xitanium
Mains voltage	220-240 V / 50-60 Hz
Inrush current (depends on driver version):	40 W: 65 A / 100 µs
	75 W: 80 A / 150 µs
	100 W: 80 A / 150 µs

Specifications

Controls system input	1-10 V or DALI
Dimming	1-10 V
	DALI
	DynaDimmer
	SDU
	Starsense RF OLC
Options	Including cable
	Class II version
	Wired for cell (WFC), mini Photocell or NEMA socket
Optic	Micro lens optic
Optical cover	Clear polycarbonate bowl, diamond structured (DMP)
	2060/2063/2065 versions only available with fine frosted structured bowl (PCF)
Material	Canopy: glass fibre reinforced polyester
	Bowl: impact resistant and UV stabilized polycarbonate
	Frame: steel
	Gear tray: galvanised steel plate and extruded aluminum cooling profile
	Spigot: die-cast LM6-quality aluminum

Color	Canopy: black, RAL9005 (exterior) and wit, RAL9016 (interior)
	Frame: wit, RAL9016
	Other RAL colors available on request
Connection	Plug / socket connector
Maintenance	Tool-less by unscrewing the lock nut on the canopy and pressing the spring clip on the gear tray
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
Cable gland	PG 16
Accessories	Special adapter for post top Ø 60 mm
Remarks	Retrofit LED unit available for updating existing luminaires

Versions



KEGEL LED 2000 - LED Module
2000 lm - LED - 830 warm white -
Power supply unit regulating - 220
to 240 V - 50 or 60 Hz - Safety
class I - Distribution extra wide 50
- Polycarbonate bowl/cover
frosted - Black - Luminaire surge
protection level until 6 kV
differential mode and 6 kV
common mode - - - Post-top for
diameter 60 mm



KEGEL LED 2015 - LED Module
2500 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 60 mm



KEGEL LED 2015 - LED module
5000 lm - LED - 830 warm white -
Power supply unit regulating - 220
to 240 V - 50 or 60 Hz - Safety
class I - Distribution medium 50 -
Polycarbonate bowl/cover
prismatic - Black - Luminaire surge
protection level until 6 kV
differential mode and 6 kV
common mode - - - Post-top for
diameter 60 mm



KEGEL LED 2015 - LED module
7000 lm - LED - 830 warm 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

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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	
Dimmable	Yes
General Information	
CE mark	CE mark
Driver included	Yes
Flammability mark	-
Light source replaceable	Yes
Number of gear units	1 unit
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 (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Light source color	Optical cover/lens type	Lamp family code
912300024050	BDS711 LED20-4S/830 PSDD DW50 PCF BK CLO	23° - 8° x 152°	830 warm white	Polycarbonate bowl/cover frosted	LED20
912300024055	BDS717 12xLED25-4S/740 PSDD DW50 DMP BK	23° - 8° x 152°	740 neutral white	Diamond pattern	LED25
912300024057	BDS751 LED50-4S/830 DM50 BK CLODDF3A 60P	30° - 5° x 153°	830 warm white	Diamond pattern	LED50
912300024058	BDS754 LED70-4S/830 DW50 BK CLODDF3A 76P	23° - 8° x 152°	830 warm white	Diamond pattern	LED70

General Information (2/2)

Order Code	Full Product Name	Lamp version	Number of light sources	Optic type	Product Family Code
912300024050	BDS711 LED20-4S/830 PSDD DW50 PCF BK CLO	-	-	Distribution extra wide 50	BDS711
912300024055	BDS717 12xLED25-4S/740 PSDD DW50 DMP BK	4S	12 pcs	Distribution wide 50	BDS701
912300024057	BDS751 LED50-4S/830 DM50 BK CLODDF3A 60P	4S	30 pcs	Distribution medium 50	BDS701

Order Code	Full Product Name	Lamp version	Number of light sources	Optic type	Product Family Code
912300024058	BDS754 LED70-4S/830 DW50 BK CLODDF3A 76P	4S	30 pcs	Distribution wide 50	BDS701

Initial Performance (IEC Compliant)

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Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
912300024050	BDS711 LED20-4S/830 PSDD DW50 PCF BK CLO	3000 K	>80	1580 lm
912300024055	BDS717 12xLED25-4S/740 PSDD DW50 DMP BK	4000 K	>70	1950 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
912300024057	BDS751 LED50-4S/830 DM50 BK CLODDF3A 60P	3000 K	>80	3850 lm
912300024058	BDS754 LED70-4S/830 DW50 BK CLODDF3A 76P	3000 K	>80	5320 lm

