BEKA LEDNOVA

BEKA Schréder

BEKA LEDNOVA

CHARACTERISTICS – LUMINAIRE

Optical compartment tightness level:	IP 66
Control gear tightness level:	IP 66
Impact resistance (glass):	IK 08
Impact resistance (acrylic):	IK 10
Nominal voltage:	189-265V - 50Hz
Electrical class:	I or II
Weight (total):	4.2kg
Correlated colour temperature (CCT):	Neutral white (5000K)
Materials: Body:	Marine grade aluminium (EN 1706 AC-44300)
Protector:	Glass or high-impact acrylic
Standard finish:	Unpainted Aluminium

APPLICATIONS

- Industrial plant lighting
- Conveyor belt lighting
- Flood lighting
- Security lighting
- Hazardous area lighting
- Utility lighting
- Tunnel lighting
- Emergency lighting
- General area lighting

KEY ADVANTAGES

- Designed to operate LED light sources of up to 85W in an ambient temperature environment of at least 35˚C, without reducing the LED lifetime of up to 60 000 operating hours, at a lumen depreciation of not more than 20% (L80)
- Slim, aesthetical design optimised for LED characteristics
- Easy to install
- FutureProof: direct access to photometric engine and electronic assembly in case of upgrading or replacing components
- Designed to replace conventional HID and CFL bulkhead luminaires
- Marine grade (EN 1706 AC-44300) high-pressure die-cast aluminium housing
- LEDSafe and ThermiX®: maintains performance over time
- Optimised lighting through LensoFlex2®
- Surge protection 10kV/10kA

CONSTRUCTION DETAILS

The BEKA LEDnova offers optimal photometric performance and high reliability to reduce energy consumption and maintenance in all types of lighting applications.

The slim and unique design is optimising the thermal operating environment around the LEDs enabling the long useful lifetime (60 000hrs, L80) and low maintenance. This luminaire is designed to accommodate various mounting options, as well as hazardous (Zone 2 & 21/22) and emergency lighting applications.

Electronic temperature monitoring prevents overheating of LEDs and power supply within the LED compartment (ThermiX®).

To maximize the reliability of the LEDs, the photometric engine and control gear compartment are completely sealed to IP 66. This ensures that the photometric performance is maintained over time (LEDSafe).

The BEKA LEDnova offers flexible combinations of LED arrays, combined with various photometric distributions (LensoFlex2®) and dimming control options to further maximise energy savings and reduce maintenance costs.
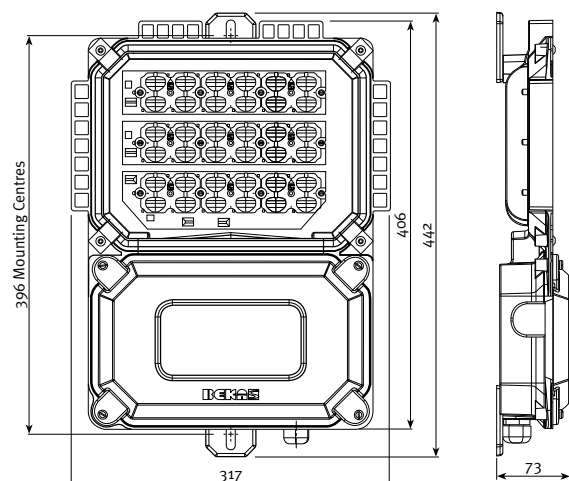
It is designed for LED light sources between 28W and 85W. Standard finish: Unpainted Aluminium. Painted version available on request.
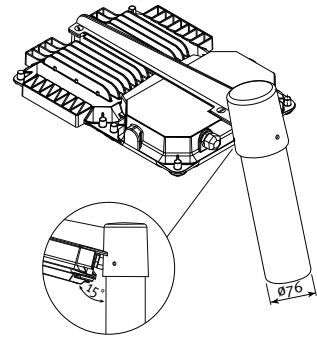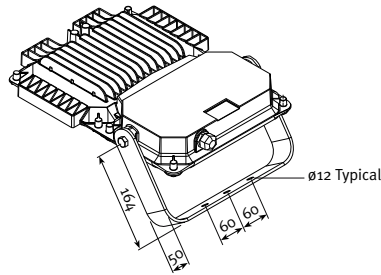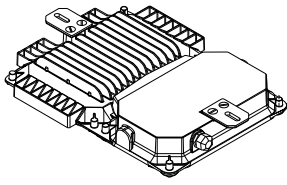
OPTIONS

- Incorporated daylight sensor
- Pole mount or stirrup version, enabling bottom entry spigots and floodlight applications
- Warm white CCT
- Surge protection up to 20kV/20kA
- Controllable stand-alone dimming
- High-impact acrylic (IK 10)
- 110V AC power supply
- Solar version: suitable for 12V or 24V DC supply
- Owlet remote management
- Zone 2 & 21/22 classification
- Emergency version

DIMENSIONS IN MM

Aerodynamic resistance: 0.02m²

MOUNTING OPTIONS

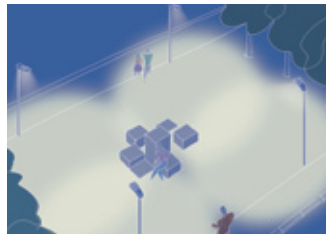
ø12 Typical

164
60 60
50

15°
ø76

APPLICATIONS

The BEKA LEDnova luminaire was specifically developed for lighting applications such as industrial plant, conveyor belt, flood, security, hazardous area, utility, tunnel, emergency and general area lighting. The range of lighting distributions including narrow, medium, wide, extra wide, symmetrical and asymmetrical beams ensures that the specific requirements of each application are met.

General area lighting

Floodlighting

Utility lighting

PHOTOMETRY

LED Type: OSRAM/Maintained luminous flux at T_a = 35˚C/Useful lifetime: 60 000 hours - at L80

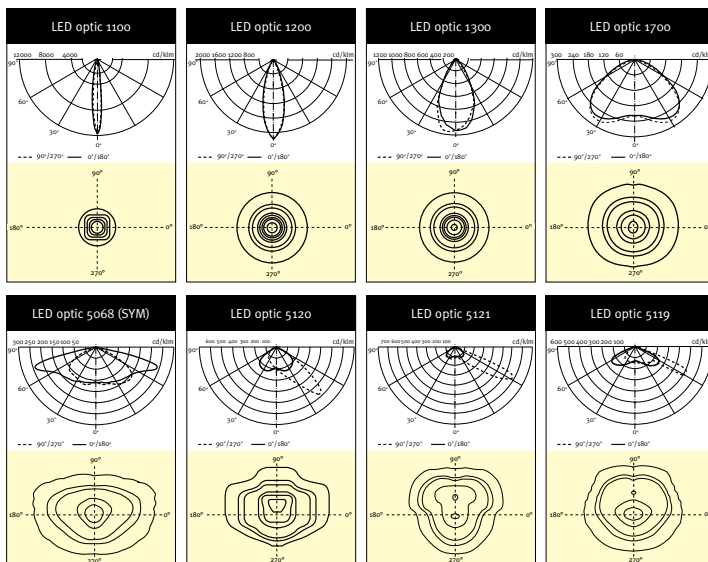| OVERVIEW					Lifetime residual flux @ t_q 25˚C (**)	
Number of LEDs	Neutral white (5000K)	12 LEDs	24 LEDs	36 LEDs	@60.000h	@100.000h
Current: 700mA	Nominal flux (lm)*	3000	6000	9000	90%	70%
	Power consumption (W)	28	55	85		

(*) The nominal flux is an indicative LED flux @ t_j 25ºC based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire.
  The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology.
(**) In accordance with LM-80 – TM-21

Electronic data files can be downloaded from www.beka-schreder.co.za/knowledge-base

LIGHT DISTRIBUTIONS

LED optic 1100

LED optic 1200

LED optic 1300

LED optic 1700

LED optic 5068 (SYM)

LED optic 5120

LED optic 5121

LED optic 5119

ORDERING DATA

DESCRIPTION	LEDS	CURRENT (mA)	LUMEN	MASS (KG)
BEKA LEDnova 28W	12	700	3 000	4.2
BEKA LEDnova 55W	24	700	6 000	4.2
BEKA LEDnova 85W	36	700	9 000	4.2

Standard optic: 5068 - symmetrical extra wide
Standard finish: Unpainted aluminium

OPTIONS AND ACCESSORIES

ELECTRICAL	
Switching/dimming control	Incorporated daylight switch
	Controllable stand-alone dimming device
	Owlet remote management
Power supply	110V AC power supply
	Solar version: suitable for 12V or 24V DC power supply
Surge protection	20kV/20kA
Correlated colour temperature	Warm white (3000K)
Emergency	LED emergency module, consisting of an inbuilt 12W LED unit, which is powered by an internally mounted control unit, consisting of batteries and drivers. 1hr version.
MECHANICAL	
Mounting	Pole mount
	Stirrup mount
Protector	High-impact acrylic (IK 10)
Colour	Pearl Light Grey (RAL 9022)
	Other RAL colours available on request
PHOTOMETRICS	
Optics	1100 - narrow spot
	1200 - medium spot
	1300 - wide spot
	1700 - wide general
	5068 - extra wide (sym)
	5120 - narrow area
	5121 - wide area
	5119 - extra wide area
EXPLOSION PROOF	
Classification	Zone 2
	Zone 21/22