

LED BEKA LEDTEC



BEKA
Schréder 

BEKA LEDTEC



Surface mounted



Recessed



CHARACTERISTICS – LUMINAIRE

Optical compartment tightness level:	IP 66 (*)
Control gear tightness level:	IP 66 (*)
Impact resistance (glass):	IK 08 (**)
Nominal voltage:	108-305V - 50Hz
Electrical class:	I (**)
Weight (total):	13.7kg
Correlated colour temperature (CCT):	Neutral white light (4000K, CRI \geq 70)
Materials:	Housing: Stainless steel (3cr12) Protector: High-impact clear glass
Standard colour:	White (RAL 9003)

(*) according to SANS 60598

(**) according to IEC 62262

APPLICATIONS

- Fuel station canopies
- Industrial areas
- Warehouses and workshops
- Multi-purpose halls

KEY ADVANTAGES

- Reliable LED engine, using Osram LEDs
- Up to 90 000 hours of expected useful lifetime (L70)
- LED compartment - IP 66
- Suitable for ambient temperatures of up to 35°C
- Designed for easy and reliable canopy and ceiling installation
- Easily accessible power supply/driver compartment
- Glare-reduced light distribution
- Fully designed and manufactured in South Africa

CONSTRUCTION DETAILS

The BEKA LEDtec is an LED lowbay designed for energy-efficient lighting in industrial and commercial environments.

The luminaire consists of an IP 66 protected LED engine, which is thermally separated from the power supply/driver compartment. Ease of installation is facilitated by the external mounting lugs and a hingeable connector plate.

The luminaire housing is manufactured from stainless steel (3cr12), epoxy powder coated to BEKA Schröder's renowned specification for exterior finishes.

The protector is manufactured from high-impact clear flat glass or vandal-resistant high-impact acrylic (IK10).

The luminaire bears the SANS 60598 mark.

The lowbay is designed to operate LED light sources of up to 160W in an ambient temperature environment of up to 35°C, without reducing the LED lifetime of 90 000 hours with 30% light depreciation (L70). The LEDs are effective high-power LEDs, 4000K at a colour rendering index \geq 70.

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

Electronic temperature monitoring prevents overheating of LEDs and power supply, positioned directly next to LEDs (ThermiX®).

The BEKA LEDtec is designed for LED light sources between 90W and 143W.

OPTIONS

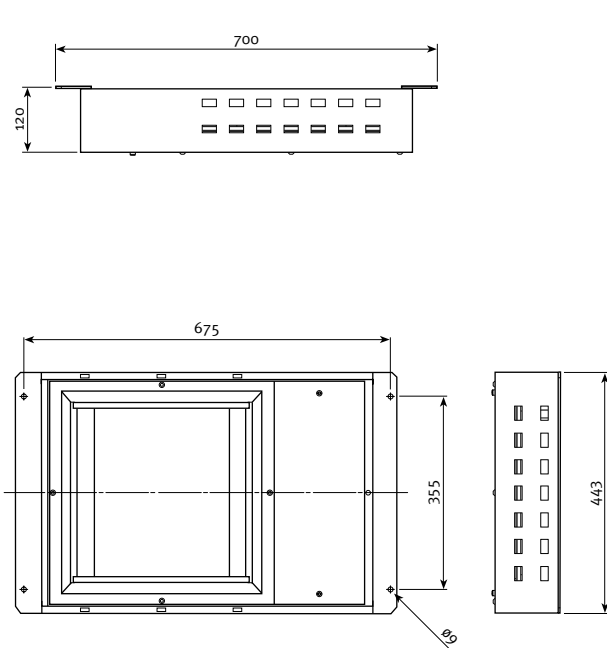
- High-impact resistant protector (IK10)
- Incorporated movement detector
- Asymmetrical light distribution



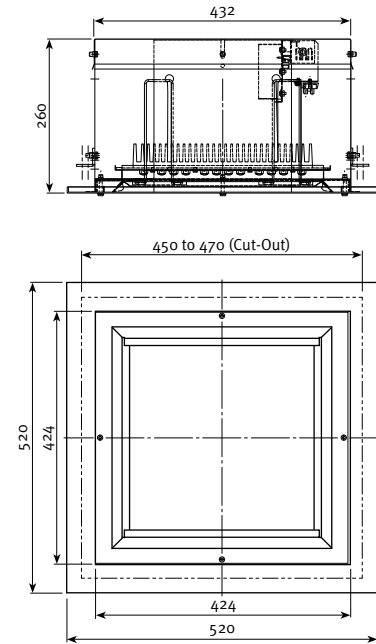
Movement detector

DIMENSIONS IN MM

Surface mounted version



Recessed version



PHOTOMETRY

High-Power white LEDs

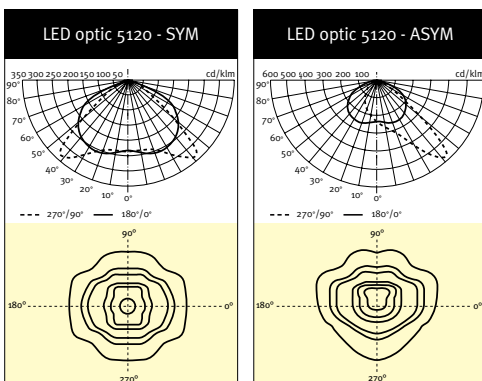
OVERVIEW					Lifetime residual flux @ t_1 35°C (**)	
Number of LEDs	Neutral white (4000K)	40 LEDs	48 LEDs	64 LEDs	@60.000h	@90.000h
Current: 700mA	Nominal flux (lm)*	10000	12000	16000	90%	70%
	Power consumption (W)	90	108	143		

(*) The nominal flux is an indicative LED flux @ t_1 25°C 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

LIGHT DISTRIBUTIONS



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

ORDERING DATA

DESCRIPTION	LEDs	CURRENT (mA)	LUMEN	MASS (KG)
Surface Mounted				
BEKA LEDtec-SM 90W	40	700	10 000	12.6
BEKA LEDtec-SM 108W	48	700	12 000	12.6
BEKA LEDtec-SM 143W	64	700	16 000	13.7
Recessed				
BEKA LEDtec-RE 90W	40	700	10 000	12.6
BEKA LEDtec-RE 108W	48	700	12 000	12.6
BEKA LEDtec-RE 143W	64	700	16 000	13.7

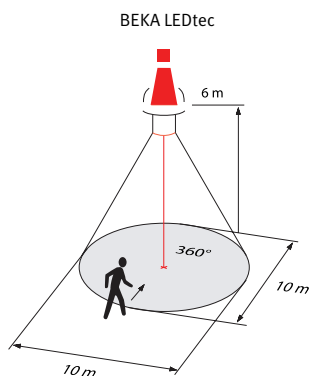
Standard optic: 5120 – symmetrical
 Standard colour: White (RAL 9003)

OPTIONS AND ACCESSORIES

ELECTRICAL	
Incorporated movement detector	For surface mounted version For recessed version (available on request)
MECHANICAL	
Protector	High-impact resistant acrylic (IK10)
Colour	Other RAL colours available on request
PHOTOMETRICS	
Optics	5120 - Symmetrical 5120 - Asymmetrical
ACCESSORIES	
Remote control	To adjust the lighting levels and dimming profile

MOVEMENT DETECTOR

The optional movement detector uses a specific lens to determine a detection zone. The standard lens is suitable for most applications. As an option, lenses can be provided for special needs.



REMOTE CONTROL

If the pre-set lighting levels and dimming profile need to be changed, these can easily be adjusted by an optional remote control. This enables the lighting scenario to be adapted at any time.



Designed and manufactured by BEKA Schröder (Pty) Ltd - South Africa
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