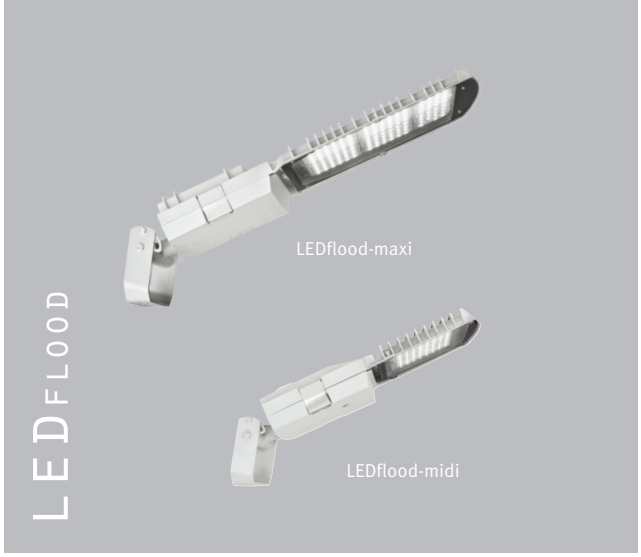
LED FLOOD

LOCALLY
manufactured

BEKA Schréder
Experts in lightability™



SA Pat. 2012/07685

CHARACTERISTICS – LUMINAIRE

Optical compartment tightness level:		IP 66 (*)
Control gear tightness level:		IP 66 (*)
Impact resistance (glass):		IK 07 (**)
Nominal voltage:		198-264V - 50Hz
Electrical class:		I or II (**)
Operating temperature (T_a):		≤35˚C
Weight (total):	Midi:	10.5kg
	Maxi:	16.5kg
Correlated colour temperature (CCT):		4000K (Neutral white 740)
Colour rendering index (CRI):		≥70
Materials:	Body:	Marine grade aluminium (EN 1706 AC-44300)
	Protector:	High-impact clear glass or polycarbonate
Installation height:	Midi:	up to 15m
	Maxi:	up to 30m
Aerodynamic resistance (CxS):		
	Midi:	0.03m²
	Maxi:	0.045m²
Standard finish:		Unpainted Aluminium

(*) according to SANS 60598-2-5
(**) according to SANS 62262

APPLICATIONS

- Security lighting
- Area lighting
- General floodlighting

KEY ADVANTAGES

- Designed to operate LED light sources of up to 276W in an ambient temperature (T_q) environment of up to 25˚C, without reducing the useful lifetime of 100 000 hours, at a lumen depreciation of not more than 30% (L70)
- Easy to install
- No lamp or component replacements for more than 10 years
- Designed for easy technology upgrade (FutureProof)
- Marine grade, high-pressure die-cast aluminium housing
- Designed to replace conventional HID and CFL streetlight and floodlight luminaires (up to 400W HPS) with energy savings up to 70%
- Three-compartment housing, ensures reliable ingress protection
- Automatic disconnection of power when opened
- Surge protection 10kV/10kA
- 5 year warranty (terms & conditions apply)

CONSTRUCTION DETAILS

The luminaire consists of an LED engine, power supply and spigot compartment. This allows the easy installation of the LED engine by means of a hinging action onto a spigot base casting, with incorporated leveling device. It is secured by stainless steel latches and an access screw. The LED engine, consisting of the LED light source and the power supply, can be easily replaced or upgraded (FutureProof).
Both compartments are rated IP 66.
Electronic temperature monitoring prevents overheating of LEDs and power supply, positioned directly next to LEDs (ThermiX®). The power supply is automatically disengaged when opening the luminaire. The luminaire housing is manufactured of marine grade aluminium. It is designed for LED light sources between 54W and 276W. The power factor is rated at ≥0,95.

STIRRUP

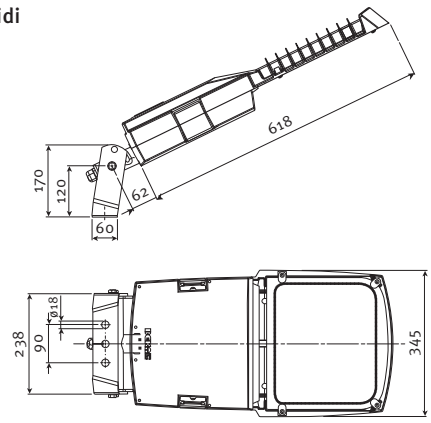
The bottom-entry mounting stirrup is manufactured from 6mm x 60mm hot-dipped galvanised steel.

OPTIONS

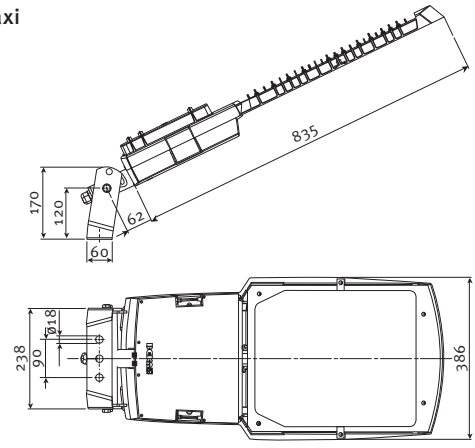
- Incorporated downward facing daylight switch
- Pre-programmable stand-alone dimming
- Surge protection up to 20kV
- Protector made of impact-resistant material
- Vandal-resistant version
- Stainless steel stirrup

DIMENSIONS IN MM

LEDflood-midi

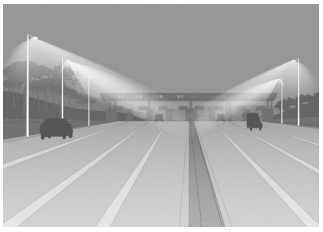


LEDflood-maxi



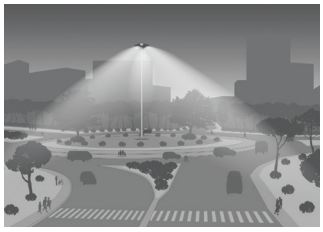
APPLICATIONS

The LEDflood luminaire was designed for illumination of areas where energy saving, low maintenance and precise light control considerations are important factors. The flexibility of the LensoFlex® photometric engine allows for multiple light distributions to ensure that the specific requirements of each application are met. Furthermore, the options for varying the number of LEDs allows for a precise adaptation of the nominal power of the luminaire according to the area that is to be lit.



Large areas

Car park



Large roundabout

Motorway junction

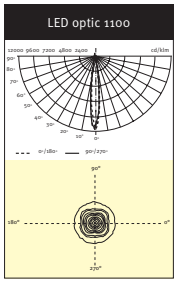
Large place

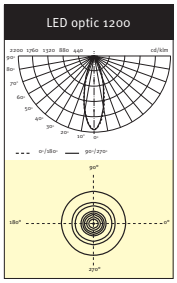
PHOTOMETRY

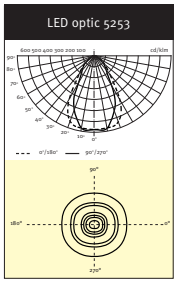
OVERVIEW						Lifetime residual flux @ T_q 25°C (**)	
LEDFLOOD-MIDI							
Number of LEDs	Neutral white (4000K)	24 LEDs	32 LEDs	48 LEDs	64 LEDs	@60.000h	@100.000h
Current: 700mA	Nominal flux (lm)*	7676	10235	15157	20345	90%	70%
	Power consumption (W)	54	70	104	138		
LEDFLOOD-MAXI							
Number of LEDs	Neutral white (4000K)	80 LEDs	96 LEDs	128 LEDs		@60.000h	@100.000h
Current: 700mA	Nominal flux (lm)*	25049	30195	40078		90%	70%
	Power consumption (W)	174	208	276			

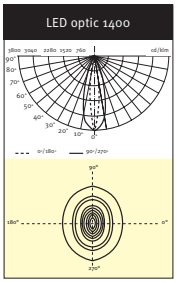
(*) The nominal flux is an indicative LED flux @ T_j 25°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire.
The type of LED used is subject to change due to the ongoing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

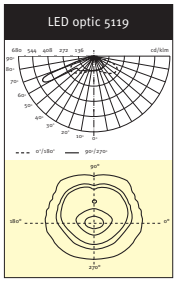
LIGHT DISTRIBUTIONS

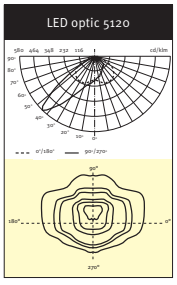


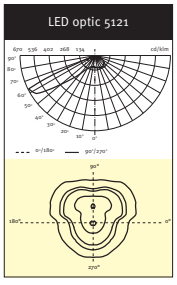


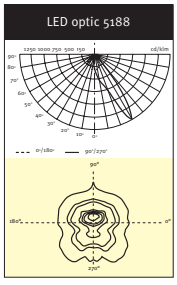












Electronic data files available on request

ORDERING DATA

DESCRIPTION	LINE CURRENT (A)	LEDS	LED CURRENT (mA)	LUMEN	MASS (KG)
LEDflood-midi 54W	0.24	24	700	7 676	10.4
LEDflood-midi 70W	0.31	32	700	10 235	10.5
LEDflood-midi 104W	0.46	48	700	15 157	10.5
LEDflood-midi 138W*	0.6	64	700	20 345	15.5
LEDflood-maxi 174W	0.76	80	700	25 049	15.9
LEDflood-maxi 208W	0.91	96	700	30 195	16.1
LEDflood-maxi 276W*	1.2	128	700	40 078	16.5

*Only for downward lighting
Standard CCT: Neutral white (4000K)
Standard optic: 5120 - wide area
Standard finish: Unpainted aluminium

OPTIONS AND ACCESSORIES

ELECTRICAL	
Switching/dimming control	Incorporated downward facing daylight switch
	Pre-programmable stand-alone dimming device
Surge protection	20kV/20kA
Correlated colour temperature	Warm white (3000K)
	Cool white (5700K)
MECHANICAL	
Protector	Polycarbonate (IK 10)
Anti-theft	Vandal-resistant version, preventing unauthorised access to the luminaire by means of a special coded access screw
Colour	Pearl Light Grey (RAL 9022), Textured finish
	Other RAL colour, Matt finish
	Other RAL colour, Brilliant finish
	Other RAL colour, Textured finish
Mounting	Stainless steel stirrup
PHOTOMETRICS	
Optics	1100 - narrow spot
	1200 - medium spot
	5253 - wide spot
	1400 - oval spot
	5119 - extra wide area
	5120 - wide area
	5121 - narrow area
	5188 - very narrow area

Designed and manufactured by BEKA Schréder (Pty) Ltd - South Africa
Manufacturers of Luminaires and Glass Fibre Poles
09/20

SABS APPROVED SABS ISO 9001

BEKA Schréder
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