

Experts in lightability™

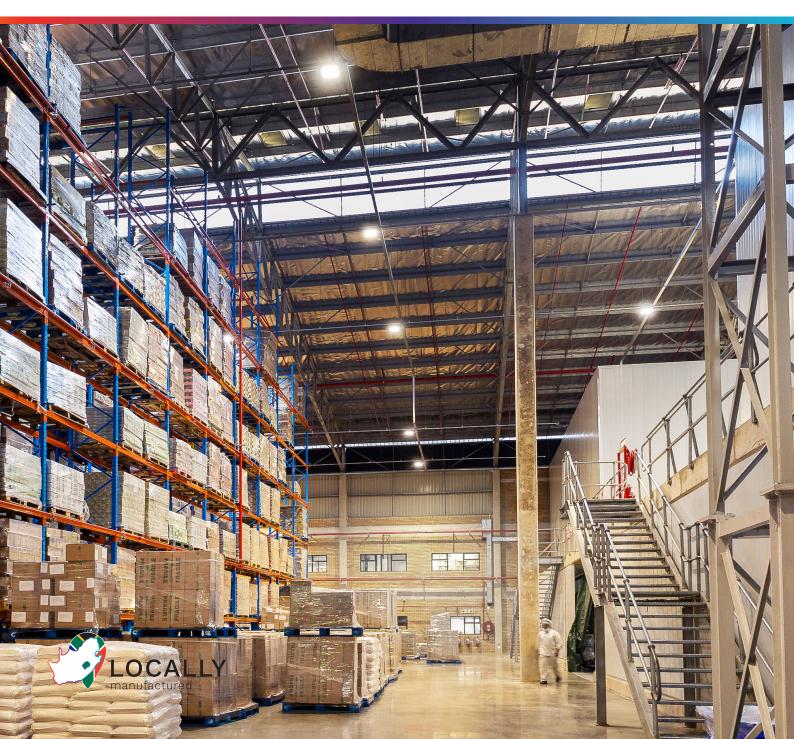
ECOBAY

LED lowbay and highbay









ECOBAY





IP 66

Up to IK 10







ECOBAY RP MIDI



ECOBAY RP MAXI



ECOBAY RP with skirt



ECOBAY SP

Lowbay and highbay lighting range with a high return on investment

The ECOBAY is the ideal luminaire for lighting industrial facilities to optimise light levels and return of investment. It delivers the best solution for lowbay and highbay applications. We give you best-in-class options to suit your application with a visually pleasing round or square PCB, and an optional additional skirt that can complement any specific application.

The ECOBAY offers substantial energy savings, high performance and is able to operate at high ambient temperatures. It will meet all your expectations in a valued investment.

Available with a selection of lumen packages and various light distributions, the ECOBAY is perfectly suited for multiple indoor lighting applications.

The ECOBAY not only lowers your initial investment; it maximises it by providing a comfortable environment for your staff while limiting energy consumption to what is absolutely necessary. Thanks to its reliable performance, low dust accumulation and no need for relamping and regular maintenance, the ECOBAY is the luminaire of choice.







INDUSTRIAL HALL

STRIAL WAREHOU

RETAIL AREA

SERVICE STATION

SPORT AREA

Key advantages

- · Designed and manufactured in South Africa
- Highly efficient and energy saving (replaces up to 400W HID light sources)
- Very flexible: Available for lowbay or highbay applications
- Optimised heatsink design by means of vertical ribs for heat dissipation for up to 201W
- Designed to operate LED light sources of up to 201W in an ambient temperature (Tq) environment of at least 25°C, without reducing the useful lifetime of up to 100 000 hours, at a lumen depreciation of not more than 30% (L70B10)
- Ta of up to 45°C
- Long lifetime and low maintenance, no lamp replacement for more than 10 years
- · Various optical solutions available
- Suitable for very low Unified Glare Rating (UGR) requirements
- · Flicker-free lighting
- Optional skirt for an aesthetically pleasing look with enhanced glare reduction
- · Circular economy 3-star rating
- 5-year warranty (Terms and conditions apply)

Characteristics

GENERAL INFORMATION

Recommended installation height	4m to 12m Please note: We have a complete product range available. For products catering for higher installation heights, please consult us.			
Driver included	Yes			
ROHS compliant	Yes			
Testing standard	SANS 60598, SANS 62262			

HOUSING AND FINISH

110001110 AND 1 INIOIT					
Housing	Marine grade high-pressure die-cast aluminium (EN 1706 AC-44300)				
Optic	Acryl	ic PMMA			
Protector	RP:	PMMA (with integrated optic)			
	SP:	Glass			
		Polycarbonate - clear			
		Polycarbonate - opaque			
Housing finish	Painted aluminium (For colour options, refer to page 9)				
Tightness level	IP 66				
Impact resistance F		PMMA: IK 08			
	SP:	Glass: IK 07			
		High-impact polycarbonate:			

DIMENSIONS AND MOUNTING

DIMENSIONS AND MOONTING				
A (mm) ØB (mm)	RP: 177 Ø350			
	SP:	168 Ø389		
Weight (kg)	Up t	0 4.4		
Standard mounting Eyebolt for suspension chain				

ELECTRICAL INFORMATION

Electrical class	EU class I
Nominal voltage	198-264V – 50Hz
Power factor	> 95% at full load
Surge protection	6kV
Electromagnetic compatibility (EMC)	SANS 55015:2013/A1:2015, SANS 61000-3-2:2014, SANS 61000-3- 3:2013, SANS 61547:2009, SANS 62493:2015
Control options	1-10V (SP only)
	DALI (SP only)

OPTICAL INFORMATION

LED colour temperature	4000K (Neutral white 740)		
	5700K (Cool white 757)		
Colour rendering index	≥ 70 (Neutral white 740)		
(CRI)	≥ 70 (Cool white 757)		
Upward Light Output Ratio (ULOR)	0%		
Standard optic	RP: 4170		
	SP: 4010		

OPERATING CONDITIONS

Operating temperature	-30°C up to +45°C
range (Ta)	

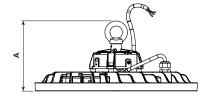
LIFETIME OF THE LEDS @ TQ 25°C

For all versions	100,000h - L70B10

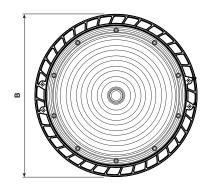
LIFETIME OF THE DRIVER @ TQ 25°C

For all versions	100,000h ≤10% failure rate

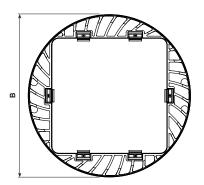
For options and accessories, please turn to page 9.



ECOBAY RP



ECOBAY SP



Performance

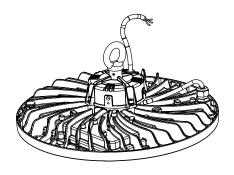
					Nominal flux (lm) (*)	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)	Photometry (**)
Lumii	naire	Number of LEDs	Driver Current (mA)	Line Current (A)	Typical	Typical	Typical	Typical	Typical	
3AY RP	MIDI	160	520	0.57	18266	132	138	17353	131	4160 4170
		160	520	0.57	18266	132	138	17353	131	
	MAXI	160	577	0.66	19902	151	132	18907	125	4290
	M	320	660	0.69	24586	158	156	23357	148	
		320	768	0.81	28174	186	151	26765	144	
ECOBAYSP		192	630	0.53	20845	122	170	18761	153	4010 4011 4120 4130 4140
		224	630	0.6	23534	137	172	21181	154	
		256	680	0.72	28042	165	170	25238	153	
		256	810	0.87	32650	201	162	29385	146	

Tolerance on LED flux is \pm 7% and on total luminaire power \pm 5%

Mounting Options

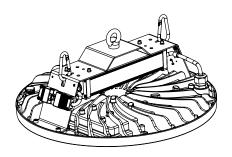
Eyebolt fixation

Standard version



Anti-rotation fixation (SP only)

(Carabiners not included)



^(*) The nominal flux is an indicative LED flux @ Ts 85°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.

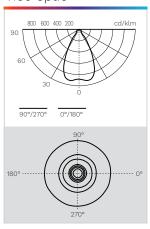
 $^{^{(**)}}$ Custom combinations of lenses/optics to suit the project are available on request.

Light Distributions

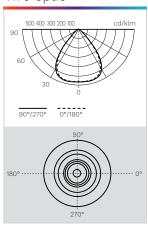
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ECOBAY RP MIDI

4160 optic

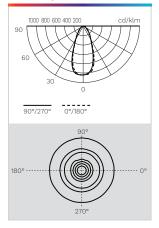


4170 optic



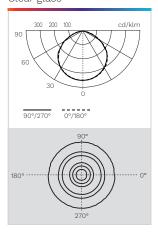
ECOBAY RP MAXI

4290 optic

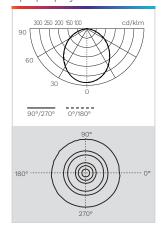


ECOBAY SP

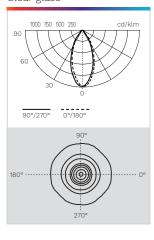
4010 optic Clear glass



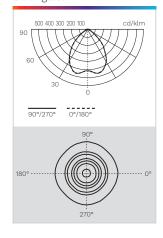
4011 optic Opaque polycarbonate



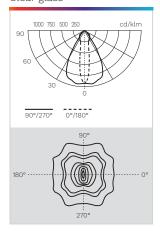
4120 optic Clear glass



4130 optic Clear glass



4140 optic Clear glass



Key Features

ECOBAY - All versions



Corrosion-resistant marine grade high-pressure die-cast aluminium housing (EN 1706 AC-44300)



Optimised heatsink design by means of vertical ribs for heat dissipation



Integrated vent (breather) for rapid pressure equalisation and reduction of condensation

ECOBAY RP



 $\mbox{\rm PMMA}$ protector with integrated optic. Improved light output ratio (LOR) due to no glass protector.



Optional skirt for an aesthetically pleasing look with enhanced glare reduction

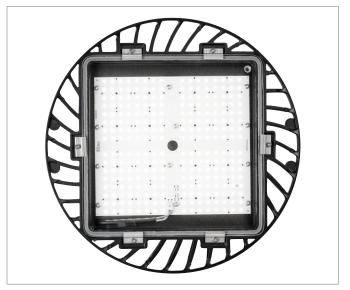
ECOBAY SP



Available with a clear glass or polycarbonate protector



Also available with an opaque polycarbonate protector



Glass protector suitable for very dirty environments as it can be cleaned easily to maintain lumen output over luminaire lifetime



Optional anti-rotation version: Anti-rotation fixation possible by using carabiners (carabiners not included)

Construction Details

The ECOBAY consists of a marine grade die-cast aluminium (EN 1706 AC-44300) optical housing, enclosed by a PMMA protector with integrated optic in the RP version, or in the case of the SP version, by a glass protector (IK 07) or optional clear or opaque polycarbonate protector (IK 10). The luminaire is suspended by means of an eyebolt.

The luminaire bears the SANS 60598 safety mark.

The IP 66 electronic power supply is suitable for operation with a 198-264V 50Hz single phase system. The power factor is rated at ≥0,95. It is mounted externally to the optical compartment and can be connected via a dedicated IP 66 rated inline connector.

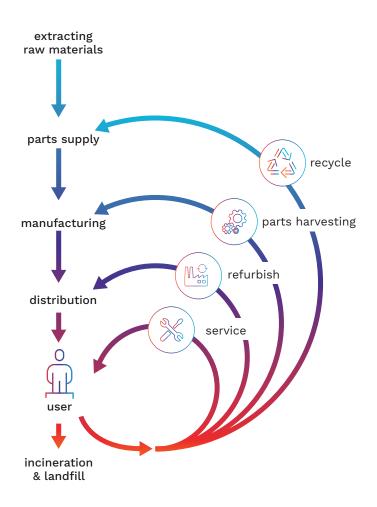
Electronic temperature monitoring prevents overheating of LEDs and power supply (ThermiX®).

Various optical solutions are available to achieve the highest energy savings and the most economical solution for almost any application.





Circularity concept



ECOBAY

Circularity focuses on reducing the environmental burden by valorising the flow of all materials.

It is mainly defined in opposition to the traditional linear economy: take, make and dispose. In a circular economy, products are part of a value network where they will be used for as long as possible.

Then, depending on their characteristics, they can be reused, refurbished, upgraded or recycled.

BEKA Schréder takes circular economy into account, right from the offset. Before we start to design our products, we incorporate it into their DNA.

After a careful analysis of the potential circularity of our luminaires, we decided to introduce a "circular lighting" product label. This label acts as a circular indicator for our customers.

It clearly designates products that are optimised for circular economy through 12 objective criteria.

Circular highlights:



Tool-free opening of the gear compartment for easy maintenance



 Equipped with a completely replaceable LED engine



 Less than 7 steps to completely disassemble the luminaire (SP only)



Materials with a high rate of recyclability

Star rating:



It was designed to be cost-efficient



It was built to last but not with circular economy requirements



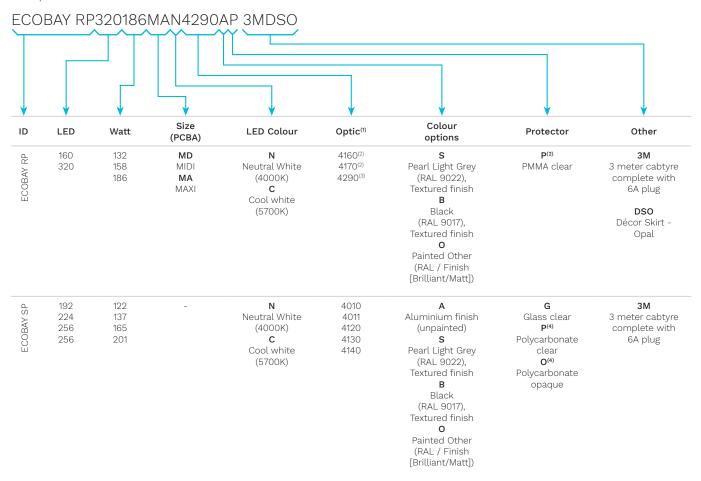
It was developed to meet most of circular economy requirements



It was developed to fully meet circular economy requirements

Ordering Information

Example:



 $^{^{\}scriptsize{(1)}}$ Custom combinations of lenses/optics to suit the project are available on request.

Custom Options

ECOBAY RP & ECOBAY SP				
Cabtyre	5 meter cabtyre complete with 16A plug			
Mounting	Suspension cable (specify length)			
ECOBAY SP				
	DALI Dim			
Switching/dimming control	1-10V dimming			
Mounting	Anti-rotation version			

⁽²⁾ For ECOBAY RP MIDI version only

⁽³⁾ For ECOBAY RP MAXI version only

 $^{^{\}scriptscriptstyle{(4)}}$ Suitable for Food & Beverage industry











www.beka-schreder.co.za

Designed and manufactured by BEKA Schréder (Pty) Ltd

