



**ECO  
LIGHT**  
INDUSTRIAL LED

**LED  
INDUSTRIAL  
HIGH  
BAY**

**LEDIL23-180WW • LEDIL23-180SEN • LEDIL23-180MS**

## INDUSTRIAL LED HIGH BAY LIGHT – 180W

This 180W high powered LED high bay is a direct replacement to the traditional 400W Metal Halides. Available standard or with optional inbuilt daylight or motion control sensors to optimise power savings.

The daylight sensor control will adjust the light output depending on the amount of natural daylight detected. A typical application is a warehouse with skylights or clear roof panels where there is a lot of constant movement. Proven savings in this application are an additional 65% when compared with a standard LED highbay (in a warehouse with skylights in average or better condition during daylight hours only).

Motion control sensors will switch the light between full brightness and maximum dim (or off) when motion is detected (working height up to 12m). A typical application is a warehouse or store that has areas or aisles that have frequent periods of no movement. During these times the light will sit in a dimmed state (or off), using less than 50W (or 0W) of power. Additional energy savings vary depending on the frequency of movement but can be as much as 85% when compared to the standard fitting with no sensor.

Swapping from 400W metal halide highbay fittings to ECOlight LEDIL23-180 with integrated lighting controls can offer significant savings in power consumption (dependent on installation & occupancy).



### TECHNICAL SPECIFICATIONS

Fixture/Part No.	LEDIL23-180 range
Total Power	185W
LED Power	Full Power 180W Max Dim 50W
LED Lumens	18,500 lm
Fixture Lumens	17,836 lm
LED Configuration	3 x 60W COB LED
Colour Temperature	Cool White 6000K, Warm White 3000K
Colour Rendering (Ra)	75-80
IP Rating	IP65
Life Span	>50,000
Eco-friendly	No UV, IR, Lead or Mercury
Operating Temperature	-40°C ~ 60°C
Weight	12kg
Beam Angle	120°
Suggested Working Height	5m to 12m
Size	361mm x 561mm Dia
Dimmable	Yes
Power Factor	≥ 0.95
Input Voltage Range	100~240V AC
Power Cable	3m lead with 3 pin plug
Light Sensor	1-10V



Fixture/Part No.	Colour Temperature	Sensor
LEDIL23-180WW	Warm White	No
LEDIL23-180SEN	Cool White	Daylight Sensor
LEDIL23-180MS	Cool White	Motion Sensor



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SDOC is available on our website.

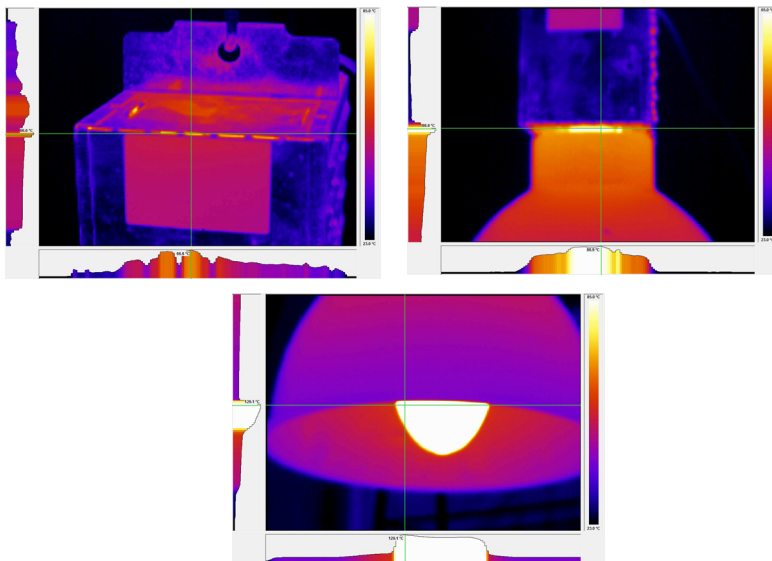
**PRODUCT IMAGES**



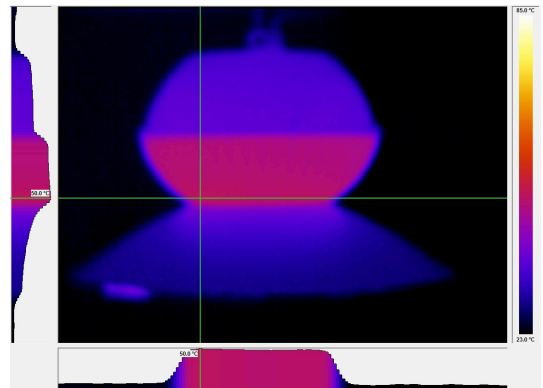
**THERMOGRAPHY IMAGES**

LED vs Metal Halide

**Metal Halide = 129°C**



**LED = 49.4°C**



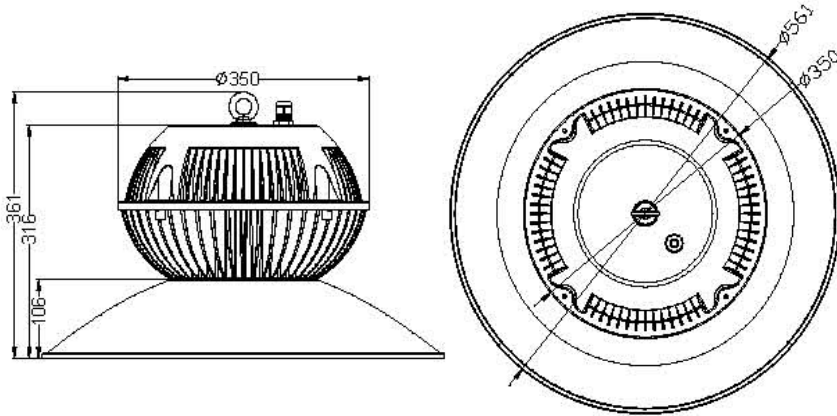
**BENEFITS**

- >50,000 hour life span
- Reduces energy consumption and prolongs life spans of peripheral cooling units (AC, Refrigeration)
- Over 85% power savings and greater savings achieved when utilising dimming\*

\* = vs 400W Metal Halide fixture

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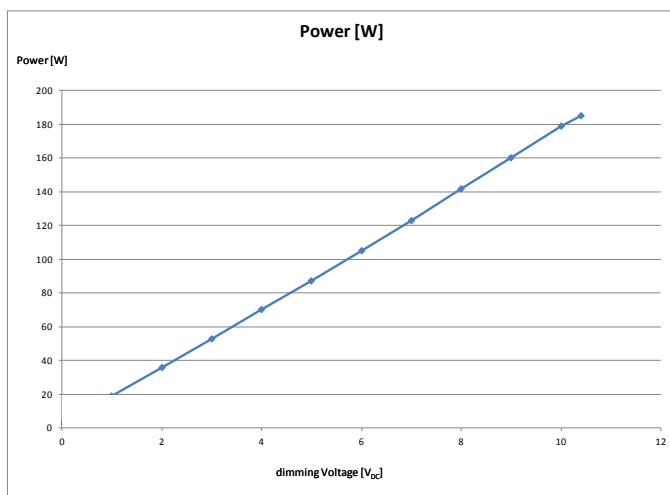
## DIMENSIONS



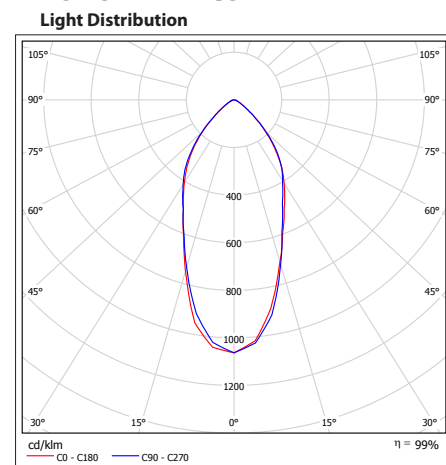
## MAXIMUM SAVINGS CHART

Installation	Fitting	Result
Building with no skylights, has movement and occupancy for greater than 80% of the time the lights are on	LEDIL23-180ACWW	Standard fitting as sensors will add little benefit to this installation
Building with lots of natural daylight through roof mounted skylights and there is movement and occupancy for greater than half of the time that the lights are on.	LEDIL23-180SEN	Daylight sensor will create an additional 65% savings for the amount of time that the lights are on during daylight hours
Building has movement or occupancy for less than half of the time that the lights are on (in the area beneath the lights)	LEDIL23-180MS	Motion sensor will create an additional 50-80% savings day and night.

## DIMMING PROFILE



## PHOTOMETRICS



### MOTION SENSOR SETTINGS

ON OFF		1	2	3	
	I	●	●	●	100%
	II	○	●	●	75%
	III	●	○	●	50%
	IV	○	○	●	25%
	V	○	○	○	10%

#### Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

 Factory settings

ON OFF		1	2	3	
	I	●	●	●	10s
	II	○	●	●	30s
	III	●	○	●	90s
	IV	○	○	●	3min
	V	●	●	○	20min
	VI	○	○	○	30min

#### Hold time

Refers to the time period the lamp remains at 100% illumination after no motion is detected.

ON OFF		1	2	3	
	I	●	●	●	Disable
	II	○	●	●	1h
	III	●	○	●	30min
	IV	○	○	●	10min
	V	●	●	○	5min
	VI	○	○	○	5s

#### Stand-by period

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of movement below. When set to Disable mode, the low light is maintained until motion is detected.

ON OFF		1	2	3	
	I	●	●	●	50%
	II	○	●	●	40%
	III	●	○	●	30%
	IV	●	●	○	20%
	V	○	○	○	10%

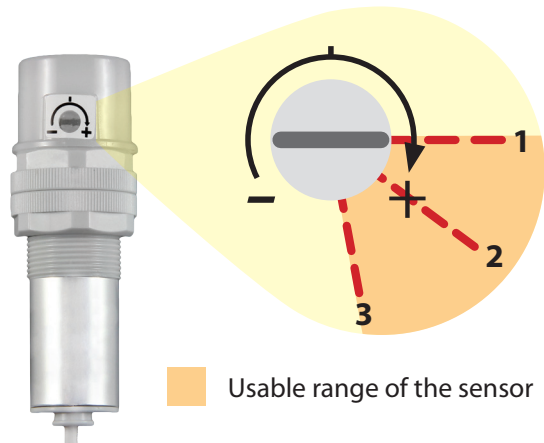
#### Stand-by dimming level

The low light level you would like to have after the hold time in the long absence of movement below.

ON OFF		1	2	3	
	I	●	●	●	Disable
	II	○	●	○	50lux
	III	●	○	○	10lux
	IV	○	○	○	5lux

#### Daylight sensor

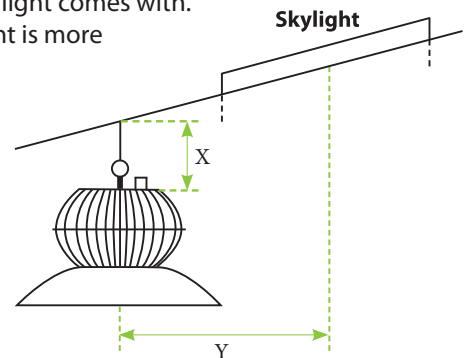
Set to disable.



### DAYLIGHT SENSOR SETTINGS

The daylight sensor is designed to suit a variety of applications, but the only functional settings compatible with the LEDIL23-180 are at the top 1/4 of the range.

1. Use this setting if the light is within 500mm of the skylight (and the skylight is in good condition).
2. This is the best general setting - in most applications good results can be expected using this setting for all locations. This is the factory setting the light comes with.
3. Use this setting if the light is more than 3 metres from a skylight.



\*For best results with the daylight sensor try to keep a minimum clearance of one metre from the top of the light to the roof (X) and have the light within four metres of a skylight (Y). If you are not able to achieve a one metre spacing then use setting #3 as shown in the diagram.