

Product Information Sheet

COMMISSION DELEGATED REGULATION (EU) 2019/2015 with regard to energy labelling of light sources

Supplier's name or trade mark: Source

Supplier's address: SGD, Unit 7/8 Ashbourne Business Centre Ballybin Road Ashbourne Co. Meath Ireland A84YP58

Model identifier: SHBMW

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
Light source cap-type (or other electric interface)	NDLS		
Mains or non-mains:	MLS	Connected light source (CLS):	No
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	No		
Anti-glare shield:	No	Dimmable:	Yes

Product parameters

Parameter	Value	Parameter	Value
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General product parameters:

Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	200	Energy efficiency class	D
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	31 572 in Wide cone (120°)	Correlated colour temperature, rounded to the nearest 100 K, or the range of correlated colour temperatures, rounded to the nearest 100 K, that can be set	4 000 or 5 000 or 6 000
On-mode power (P_{on}), expressed in W	200,0	Standby power (P_{sb}), expressed in W and rounded to the second decimal	0,50
Networked standby power (P_{net}) for CLS, expressed in W and rounded to the second decimal	-	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set	80
Outer dimensions without separate control gear, light-	Height	184	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	334	
	Depth	334	
			See image in last page

ing control parts and non-lighting control parts, if any (millimetre)			
Claim of equivalent power ^(a)	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,313 0,337
Parameters for LED and OLED light sources:			
R9 colour rendering index value	5	Survival factor	0,50
the lumen maintenance factor	0,80		
Parameters for LED and OLED mains light sources:			
displacement factor (cos ϕ_1)	1,00	Colour consistency in McAdam ellipses	6
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.	-(b)	If yes then replacement claim (W)	-
Flicker metric (Pst LM)	1,0	Stroboscopic effect metric (SVM)	0,4

(a): not applicable;

(b): not applicable;

Installation Manual

LED Multi Watt CCT Highbay Light

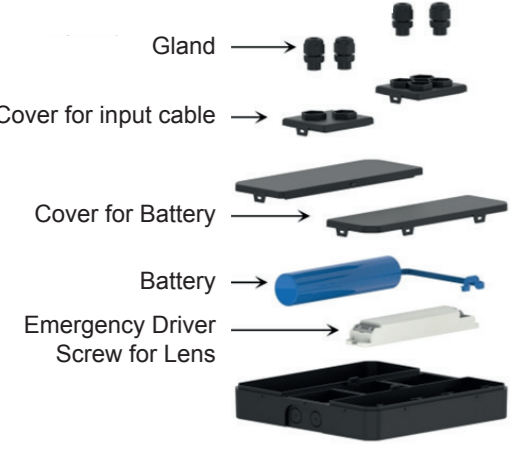
PRODUCT CODE: SHBMW / SHBMW-EM / SHBSENS



Remote Control

Product end of life instruction.
 This Lighting product is in the scope of EU 2019/2020 directive on Waste Electrical and Electronic Equipment (WEEE). This product must be disposed according to the legislation. This document is intended for use by end of life recyclers or treatment facilities. It provides the basic information to assure an appropriate end of life treatment for the components and materials of the product. It is the responsibility of the end user to dispose of this product correctly. www.weeeireland.ie or contact your local council for further information.

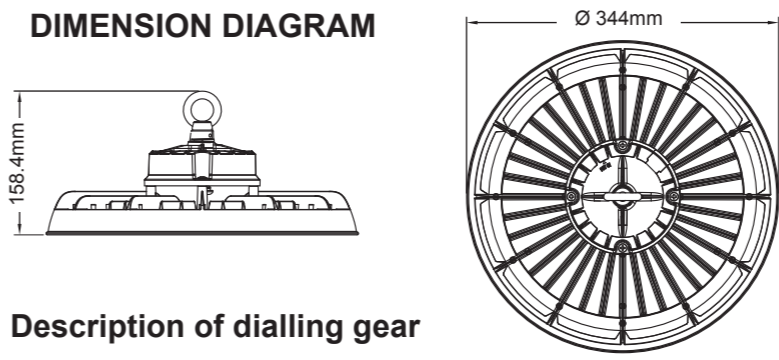
Disassembly Diagram for High Bay & Battery



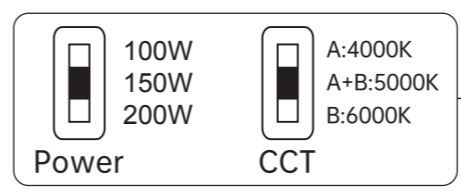
Programming and Function Applying

	Buttons	LCD Screen	The Light
Programming at the 1st Sensor	Press ON button to turn ON the light	The LCD screen starts to have numbers showing.	Light ON
	Press Scene button to start programming	The LCD screen starts to show all the sensor numbers at the right column	Light blinks then keeps ON for 5S then OFF if no motion or other commands
	Press Start button	The S icon at the left bottom corner blinks	Following the last step, light keeps ON or OFF
	Press the DA Detection Area button	The S icon and Detection Area icon blinks	Following the last step, light keeps ON or OFF
	Press the + - buttons to adjust the DA as 25%, 50%, 75% or 100%.	The S icon and Detection Area icon keep blinking, numbers changing	Light blinks at each press
	Press the HT Holdtime button	The S icon and Holdtime icon blinks	Light ON
	Press the + - buttons to adjust the HT as 5S, 30S, 1min., 3min., 5min., 10min., 20min or 30min	The S icon and Holdtime icon keep blinking, numbers changing	Light blinks at each press
	Press the SD Standby Dimming button	The S icon and Standby Dimming icon blinks	Light ON
	Press the + - buttons to adjust the SD as 10%, 20%, 30% or 50%.	The S icon and Standby Dimming icon keep blinking, numbers changing	Light blinks at each press
	Press the SP Standby Period button	The S icon and Standby Period icon blinks	Light ON
	Press the + - buttons to adjust the SP as 0S, 10S, 30S, 1min., 5min., 10min., 30min., 60min., --(infinite+)=	The S icon and Standby Period icon keep blinking, numbers changing	Light blinks at each press
	Press the DT Daylight Threshold button	The S icon and Daylight Threshold icon blinks	Light ON
	Press the + - buttons to adjust the DT as --(Disable), 2lux, 10lux, 30lux, 50lux, 80lux, 120lux, 200lux, 250lux, 300lux, 350lux or 400lux.	The S icon and Daylight Threshold icon keep blinking, numbers changing	Light blinks at each press
	Press the M button	The M icon (right next to S icon) blinks	Light ON
Press the Apply Daylight Threshold button	All icons settle	Light performs the saved program	
Applying to all the other Sensors	Press ON button to turn ON the light	The LCD screen starts to have numbers showing.	Light ON
	Press Scene button to start programming	The LCD screen starts to show all the sensor numbers at the right column	Light blinks then keeps ON for 5S then OFF if no motion or other commands
	Press the Apply button	All icons settle	Light performs the saved program
Manually Dimming in ON/OFF Mode	Press ON button to turn ON the light	The LCD screen starts to have numbers showing.	Light ON
	Press + - buttons to adjust output accordingly	Percent number on the left column changes along	Light performs output change
Manually Dimming in Sensor Mode	Press ON button to turn ON the light	The LCD screen starts to have numbers showing.	Light ON
	Press POWER button	The PW icon blinks	Light blinks
	Press + - buttons to adjust output accordingly	Percent number on the left column changes along	Light performs output change

DIMENSION DIAGRAM



Description of dialling gear



SHBMW with Sensor attached

Please read instructions carefully.
This product should only be installed by a qualified electrician
Please retain these instructions for future reference.

Important:

- This Highbay Light must be earthed
- Before installation or maintenance, ensure that the mains supply to this highbay is switched off and the circuit supply fuses are removed or circuit breaker turned off.
- Check that the total load on the circuit, including when this high bay is fitted, does not exceed the rating of the circuit cable fuse of the circuit breaker.

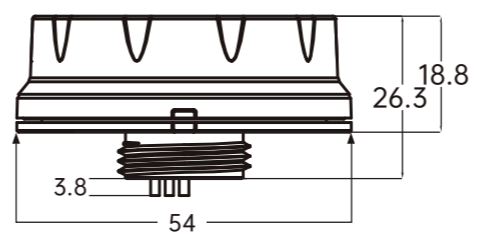
SPECIFICATION

Model no.	Multi Watt	Lumen Efficiency	CCT	CRI	Operating Temp	Material	IP Rating	Dimmable	IK Rating	Input Voltage
SHBMW	100w 150w 200w	160LM/W	4000k 5000k 6000k	>Ra80	-30~+50°C	Aluminium die-casting, Stainless steel screws	IP65	with sensor only	IK08	100-240V 50/60Hz

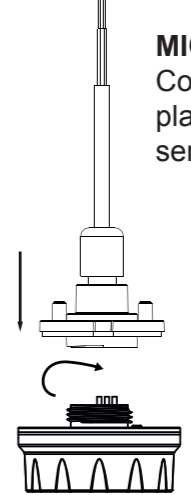
ACCESSORIES

- Remote Control (sold separately)
- Microwave sensor attachment (sold separately)
- Bracket (supplied in box)

Model no.	Description
SHBMW	LED Multi-Watt High Bay Light
SHBSENS	Microwave Sensor Accessory
RL-HB	Remote Control Accessory
SHB-BR	Bracket



MICRO SENSOR INSTALLATION



MICRO SENSOR
 Connect pins in place. Rotate the sensor head tightly



Remote Control

For more information contact:



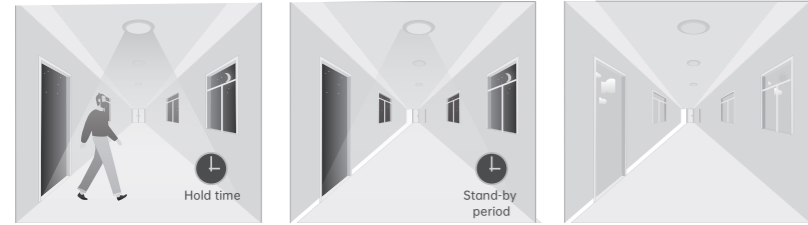
Solas Geal Distribution SGD IRE: +353 1 835 7447, SGD UK: 0330 551 7000 Website: www.sgd.ie



Unit 7/8 Ashbourne Business Centre, Ballybin Road, Ashbourne, Co. Meath, A84 YP58, Ireland
 Unit 32 Junction One Business Park, Valley Road, Birkenhead, Wirral, Merseyside, UK, CH41 7ED

MICROWAVE SENSOR PERFORMANCE

1. Daylight Sensor



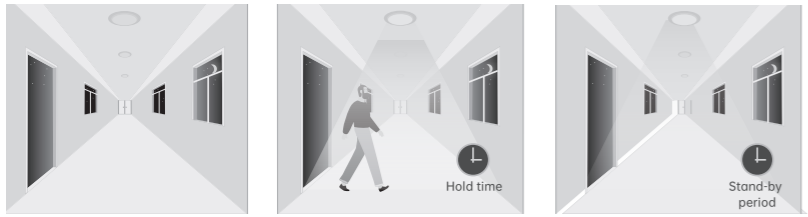
Turns ON the Light when it is dark enough

Dims the light along with daylight changing as daylight harvesting function

Turns OFF the highbay light when it is bright enough

2. Microwave Sensor

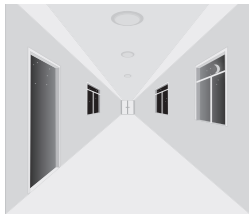
A. Without Daylight Priority



With insufficient ambient brightness, sensor turns ON light automatically even when there is no motion

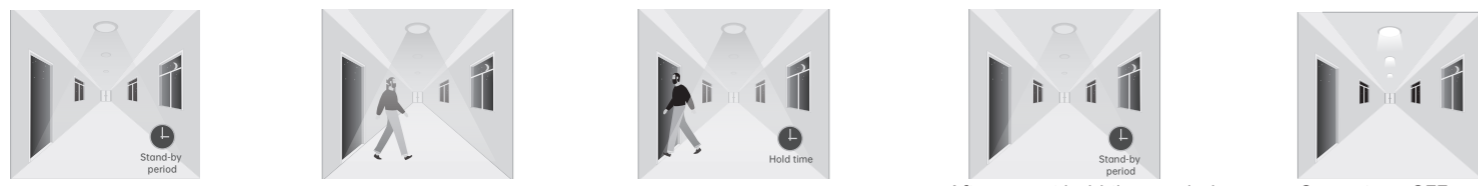
Sensor turns ON light at 100% when it detects motion, and keeps for a hold time period after motion stops

Sensor dims light to standby dimming level after hold time if there's still no motion detected



Sensor turns OFF light after standby period

B. With Daylight Priority



With insufficient ambient brightness, sensor turns ON light and keeps it at standby dimming level even there's no motion or presence

When sensor detects motion or presence, it will dim light to 100%

After motion stops, it will go to hold time period and still keep light at 100%

After preset hold time period, it will dim light to standby dimming level again and keep it there

With sufficient ambient brightness, sensor turns ON light automatically

1. Suitable for indoor application, half/completely outdoor environment conditions might be captured as moving signals to trigger the sensor.
2. Suitable for ceiling mount installation, adjust sensitivity properly if it's installed on side-wall because it gets more sensitive.
3. Adjust sensitivity properly when the sensor is applied in small/narrow/metal-built/with metal spaces.
4. Microwave sensor can't be placed under/inside metal shell; Microwave module must directly face the detection area with edge lower than light fixture.
5. Keep the sensor away from vibration equipments, air-conditioning outlets, smoke extractors alike conditions to avoid unwanted trigger.
6. Keep the sensor module away from AC input and DC output to avoid high/low frequency signal interference.
7. At least 2m/6.5ft distance between microwave sensors; 1.5m/4.9ft between the sensor and other wireless devices such as routers to avoid possible radio interference.
8. Daylight testing delivered in bright day without shadow or specially designed lampshade or lens.
9. Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either.
10. Input power voltage must be stable with float less than 10%.
11. The first time powered ON sensor, light will be ON 100% for about 10S then dims to standby level or OFF.
12. Distance detection is delivered by testing person about 165cm in open area as reference, the result differs by size and speed of moving objects, mounting height and real-life situation.

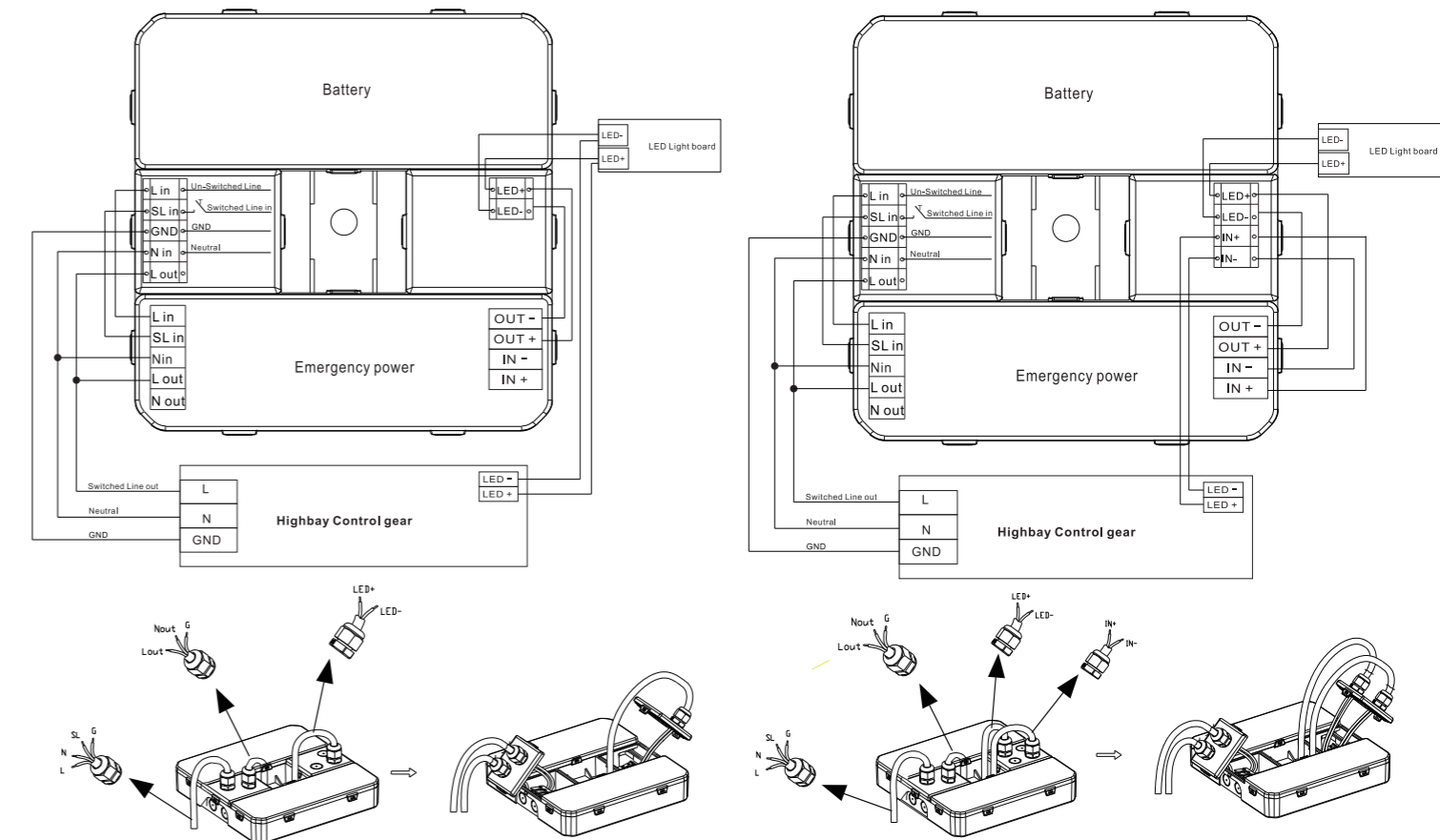
EMERGENCY BATTERY SPECIFICATION

Emergency Battery Type	Emergency Power	Emergency Duration	Charge Current	Charge Time	IP Rating	Life Time	Lumen in Emergency mode
6.4V/6000mAhLiFeP04	10W	3Hrs	230-300mA	24H	IP65	50000 Hrs	1500Lm

- High Temperature grade battery cells
- Male/female socket for simple connection
- The minimum charging environment temperature of the battery is 5C, to ensure that the battery can be charged to the rated capacity
- Battery voltage: 3.2V per cell
- Minimum Charging temperature: 5°C
- Constant power output emergency power supply
- Normal Function/Self Test
- For LED Models with forward voltage of 60-250Vdc
- The product can be installed internally or externally
- Integral LifeP04 battery pack
- Maintained/Non-Maintained operation

- Compatible with all dimmable and non dimmable constant current LED Drivers
- Automatic shutdown of output if LED load is out of range
- Constant power output, output current self-adjustable
- Electronic charge system
- Deep discharge protection
- Short circuit proof battery connection
- Open circuit proof
- Polarity reversal protection for battery
- 5 years guarantee for Highbay fitting
- 3 years guarantee for battery

The maximum no-load voltage of the driver is 340V



The Maximum allowable voltage of the LED driver output terminal must be higher than 340V (When the LED load is not connected or fails, the battery will generate a peak voltage of about 1S before protecting)

The indicator light will turn off under the following conditions:

1. When the power is off, the light enters into the emergency mode.
 2. Normal function: When the power is on, the battery is disconnected
- After the power is connected, disconnect the power and reconnect the battery (note, in this case, please reset the AC power supply)

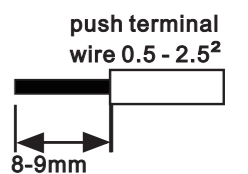
Requirements for LED Control gear:

1. LED Driver, the maximum output current shall not exceed 1A
2. When the SLin is connected, the LED is in the maintenance state
3. When the SLin is disconnected, the LED is in the non-maintenance state

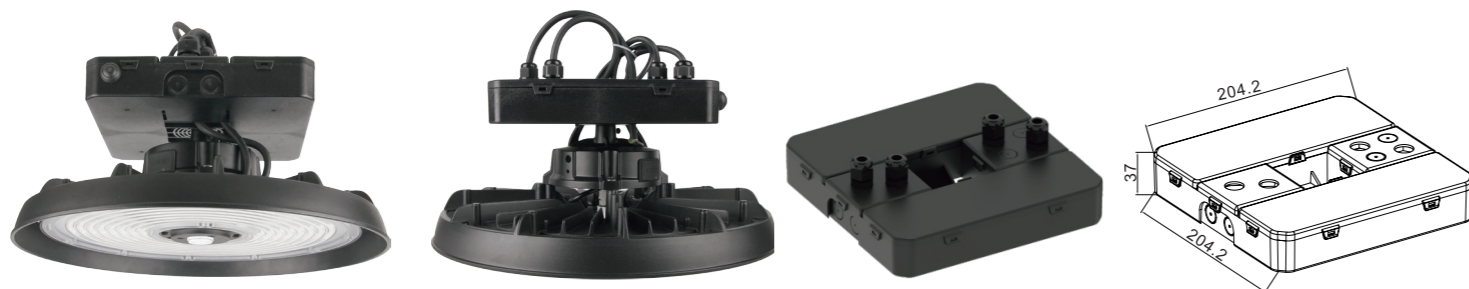
Requirements for the wiring:

Wire dimension range: 0.5 - 2.5 square meters

Crimping buckle can be fastened, wire diameter range, maximum 5.5mm, minimum 3mm



EMERGENCY FITTING - SHBMW-EM

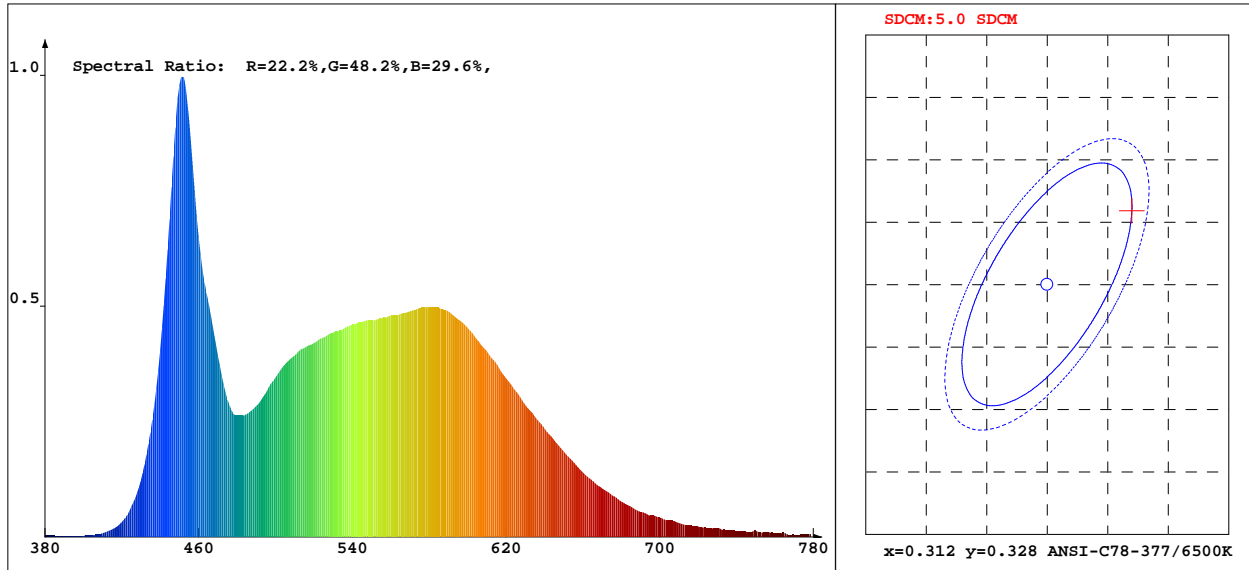


LED Test Report

Product Mark

Product Type :
Temperature :25'C
Operator :admin
Remark:

Manufacturer :
Humidity :65%
Test Date :2023-07-21



Chroma Parameters

Chro.Coor.:x=0.3193 y=0.3341 u=0.2005 v=0.3147 duv=0.0025
CCT: 6130K Dominant Wave.:492.4nm Purity:4.7%
Flux RGB Ratio:R=13.7%,G=82.3%,B=4.0% Peak Wave:451.6nm Half Width:23.6nm

Rendering Index:Ra= 83.0

R1 =81 R2 =89 R3 =93 R4 =82 R5 =82 R6 =84 R7 =87 R8 =66
R9 =0 R10=74 R11=81 R12=60 R13=84 R14=97 R15=76

Photo Parameters

Flux:23678.90lm Effi.:114.3lm/W Radiant:112984.0mW Iv:0.0mcd

Ele. Parameters

Voltage:U=229.600V Current:I=0.9260A
Power:P=207.20W Power Factor:PF=0.974

Lamp Parameters

Voltage:U=0.000V Current:I=0.0000A Power:P=0.00W
Power Factor:PF=1.000 Efficacy:0.0lm/W

Instrument state

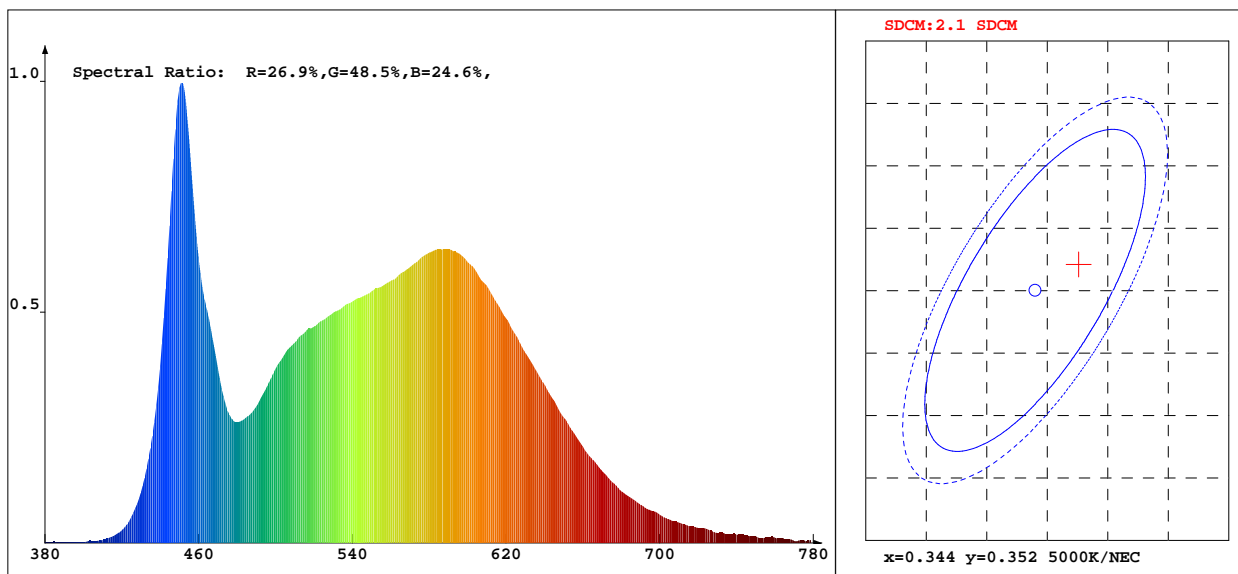
Instrument:Hopoo HP8000S Integral Time: 2.380ms VPeak: 15094
VDark: 1267 Product ID: 201307390

LED Test Report

Product Mark

Product Type :
Temperature :25'C
Operator :admin
Remark:

Manufacturer :
Humidity :65%
Test Date :2023-07-21



Chroma Parameters

Chro.Coord.:x=0.3476 y=0.3541 u=0.2121 v=0.3242 duv=0.0002
CCT: 4916K Dominant Wave.:573.5nm Purity:10.6%
Flux RGB Ratio:R=15.9%,G=80.9%,B=3.2% Peak Wave:451.2nm Half Width:22.4nm

Rendering Index:Ra= 83.0

R1 =81	R2 =90	R3 =95	R4 =81	R5 =82	R6 =85	R7 =86	R8 =65
R9 =3	R10=76	R11=80	R12=59	R13=84	R14=98	R15=75	

Photo Parameters

Flux:25255.70lm Effi.:126.5lm/W Radiant:117403.0mW Iv:0.0mcd

Ele. Parameters

Voltage:U=229.700V Current:I=0.8930A
Power:P=199.60W Power Factor:PF=0.973

Lamp Parameters

Voltage:U=0.000V Current:I=0.0000A Power:P=0.00W
Power Factor:PF=1.000 Efficacy:0.0lm/W

Instrument state

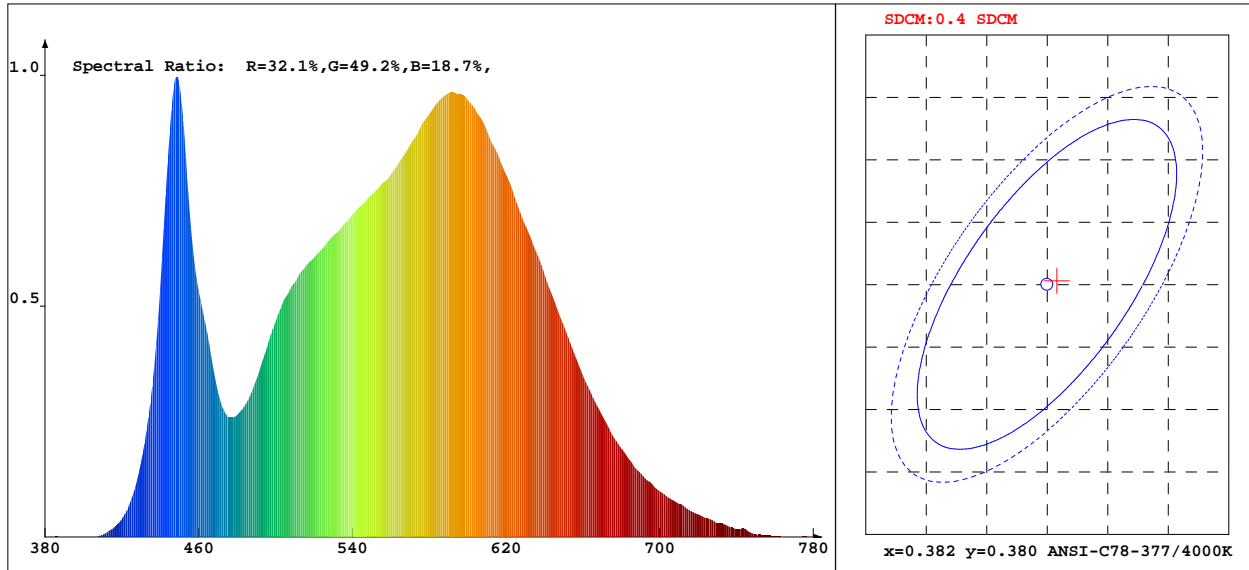
Instrument:Hopoo HP8000S Integral Time: 2.380ms VPeak: 13494
VDark: 1262 Product ID: 201307390

LED Test Report

Product Mark

Product Type :
Temperature :25'C
Operator :admin
Remark:

Manufacturer :
Humidity :65%
Test Date :2023-07-21



Chroma Parameters

Chro.Coord.:x=0.3826 y=0.3800 u=0.2252 v=0.3355 duv=0.0009
CCT: 3966K Dominant Wave.:578.7nm Purity:28.9%
Flux RGB Ratio:R=18.1%,G=79.7%,B=2.2% Peak Wave:448.5nm Half Width:21.9nm

Rendering Index:Ra= 81.7

R1 =79	R2 =88	R3 =95	R4 =81	R5 =81	R6 =85	R7 =84	R8 =61
R9 =0	R10=73	R11=81	R12=64	R13=81	R14=97	R15=72	

Photo Parameters

Flux:24246.50lm Effi.:115.9lm/W Radiant:108563.0mW Iv:0.0mcd

Ele. Parameters

Voltage:U=229.700V Current:I=0.9340A
Power:P=209.20W Power Factor:PF=0.974

Lamp Parameters

Voltage:U=0.000V Current:I=0.0000A Power:P=0.00W
Power Factor:PF=1.000 Efficacy:0.0lm/W

Instrument state

Instrument:Hopoo HP8000S Integral Time: 3.893ms VPeak: 14934
VDark: 1426 Product ID: 201307390



EU DECLARATION OF CONFORMITY

Manufacturers Name: Solas Geal Distribution
Unit 7/8 Ashbourne Business Centre, Ballybin Road, Ashbourne, Co. Meath, A84 YP58.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product:

LED CCT Multi Watt High Bay Light

Model Numbers:

SHBMW, SHBMW-EM

The product/model of the declaration described above is in conformity with the relevant community harmonisation legislation:

Low Voltage Directive (2014/35/EU)

EMC (2014/30/EU)

RoHS (2011/65/EU) & Amendment Directive (EU) 2015/863

Directive 2009/125/EC

(EU) 2019/2015 Regulation on Energy Labelling for Light Sources

(EU) 2019/2020 Ecodesign Requirements for Light Sources & Separate Control Gears

The product/model of the declaration described above is in conformity with the standards and technical specifications listed below:

EN IEC 60598-2-1:2021, EN IEC 60598-1:2021+A11:2022,

EN IEC 60598-2-2:2022, EN IEC 62031:2020+A11:2021, EN 62493:2015

EN IEC 55015:2019+A11:2020, EN IEC 61547:2023,

EN IEC 61000-3-2:2019+A1:2021,

EN 61000-3-3:2013+A1:2019+A2:2021, EN 61547:2009



Signed:

Date: 15/02/24

Place of Issue: Republic of Ireland

