

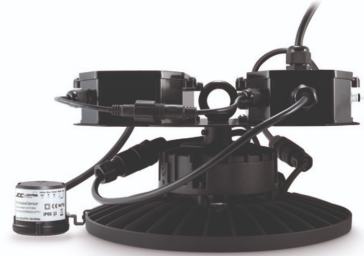
JC040023

## Toughbay Retrofit

Toughbay Retrofit 200W 90° 5700K IP65 Microwave Dimmable G2

### Features & Benefits

- Ultra efficient
- 123 Lumens per circuit Watt
- 1-10V dimmable as standard
- Suitable for extreme operating temperatures -30° to +60°
- Step dimmable available with microwave version and remote control
- High CRI of 80 ensuring a true representation of colour throughout its life
- Available in 60° 90° and 120° beam angle options



### General Information

Mounting	<b>Suspended</b>
Trade Name	<b>Toughbay</b>
Environment	<b>Demanding</b>
Suitable For Zones	<b>Zone 1</b>
Product Group	<b>Toughbay™ Retrofit Highbay</b>
Color Finish	<b>Black</b>
Product Shape	<b>Round</b>
Product Range	<b>Toughbay™ Circular Retrofit</b>
IK Rating	<b>IK10</b>
Overall Dimensions	<b>380Ø x 162mm</b>
Height (mm)	<b>162</b>
Diameter (mm)	<b>380</b>
Product Weight(kg)	<b>3.5</b>
Light Source	<b>LED</b>
Light Source Features	<b>Crisp White</b>
Additional Information	<b>JC040049 Surface Mount bracket not suitable for the microwave dimmable version- suspension only. To adjust sensor settings Remote Control LEV71808 required(purchased separately)</b>
Luminaire Accessories	<b>Microwave Sensor Remote control LEV71808</b>

Recommended Product Location	<b>Industrial applications, warehouse, retail and mezzanine</b>
Method Of Fix	<b>Suspension eye only, not suitable for surface mounting bracket</b>
Distance From Lighted Object	<b>0.3m</b>
IP Rating	<b>IP65</b>
Origin of manufacturer	<b>Made in China</b>
Warranty	<b>2 years standard warranty extends to 5 years when registered within the first year of purchase(includes 1 year onsite)(See Website for terms and conditions)</b>
Dimming Protocol Compatibility	<b>Microwave dimmable</b>
Mounting Height	<b>9m for 150-200 lux: Please note this is to be used as a rough guide and does not replace the need for a lighting design</b>
Driver Manufacturer	<b>Sosen</b>
LED Manufacturer/Type	<b>Jufei 3030</b>
Lighting Product Type 1	<b>Bay Light</b>
Lighting Product Type 2	<b>Ceiling Mount</b>

## Electrical

Voltage Rating	<b>220-240</b>
Primary Running Current(Amp)	<b>2.4</b>
Inrush current(Amps)	<b>100Amp</b>
Operating Frequency Hz	<b>50/60Hz</b>
Secondary running current(mA)	<b>770-1000</b>
Constant Current or Constant Voltage	<b>CC</b>
Luminaire Circuit Wattage	<b>200</b>
Class	<b>I</b>
Total Harmonic Distortion (THD)%	<b>10</b>
EMC Compliant (EN55015)	<b>yes</b>
Power Factor Correction	<b>0.97</b>
Input Electrical Connections	<b>live(brown) neutral(blue) earth(yellow/green)</b>
Dimmable	<b>Yes</b>

## Thermals

Thermal Cut Out	<b>yes, auto recovery</b>
Operating Temperature Range °C	<b>-30 to +60</b>

## Performance Data

LED Life (Hours)	<b>36000</b>
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Hours life stated is an indication of expected L70 chip and light output calculations when operating in optimum conditions. Product warranty period supports the full product during the term given. The L70 hours expectancy is not correlated with the full product warranty term, nor is it a representation of lumen depreciation during the warranty period.

Energy Rating	<b>This product contains a light source of energy efficiency class E</b>
Actual Lumen Output	<b>24500</b>
Lumens Per Circuit Watt	<b>123 LpcW</b>

Standard Deviation Colour Matching - SDCM	<6
Color Rendering Index	80-89
CRI: Ra	80
Correlated Color Temperature	5700K
Beam Angle °	90
LOR (Light Output Ratio) %	100
Photometry Available	Yes

## Controls and Sensors

Detection Distance	8m radius max
Detection Motion Speed	0.5~1m/s
Detection Range	Up to 10m depending on installation height
Installation Height	15m max
Occupancy Sensor Mode of Operation	Vacancy (Default) or Auto On
Detection Area	100%/75%/50%/25%
Detection Angle	150° (wall installation) 360° (ceiling installation)
Hold Time	5s/30s/1 min/3min/5min/10min/20min/30min
Microwave Frequency	5.8GHz+75MHz, ISM wave band
Transmitting Power	<0.5mW
Standby period	0s/10s/1 min/3min/5min/10min/30min/+∞
Standby-Dimming Level	10% / 20% / 30% / 50%
Sensor Default Settings	Default settings are: Detection area 75%, Hold time 5S, Stand-by Period: 0S, Stand-by dim level: 10%, Daylight sensor: Disable.
Control	Microwave

## Construction

Primary Material	Aluminium
Lens	Polycarbonate
Heat Sink	Aluminium
Driver Housing	Aluminium

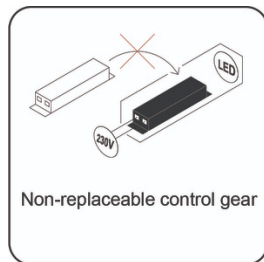
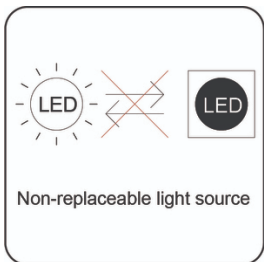
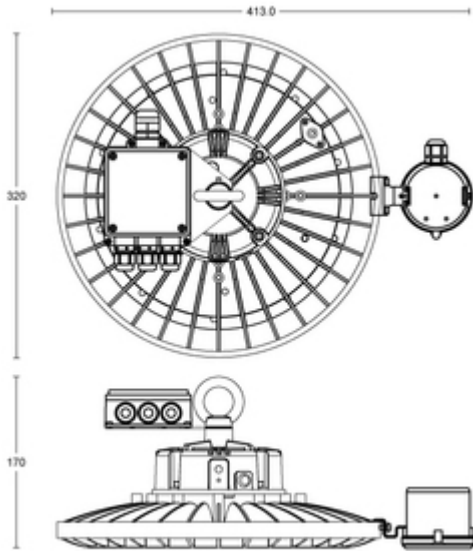
## Packaging

Product Packaged Weight(kg)	5.5
Quantity Per Outer Carton	2
Outer carton(L)- cm	80
Outer carton(W)- cm	40
Outer carton(H)- cm	19.5
Outer carton Net weight- kg	8.98
Outer carton Gross weight- kg	9.95
Product Bar Code EAN-13 Number	5052544093258
Outer carton Bar Code ITF-14 Number	15052544093255

## Standards & Approvals

Manufactured In Accordance To  
CE Marked  
UKCA Marked  
Date code/Purchase order No.  
WEEE Symbol  
Certificate Of Conformity  
Accredited Members

**BS 60598-1-2015**  
**Yes**  
**Yes**  
**Yes**  
**Yes**  
**Available on request**  
**LIA, ISO9001-2015, ISO14001-2015**



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JCC Lighting LTD, Lux Park, Chichester Business Park, City Fields Way, Tangmere, Chichester, West Sussex, PO20 2FT.  
Sales: 01243 838999 (8am to 5pm Monday to Friday) Fax: 01243 838998 | [sales@jcc.co.uk](mailto:sales@jcc.co.uk) | [www.jcc.co.uk](http://www.jcc.co.uk)  
Company Registration Number: 03044848 | VAT Number: 918544112

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