

# JC040013

## Toughbay Retrofit

Toughbay Retrofit 150W 90° 5700K IP65 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
- 1.5m mains input cable



### General Information

|                              |                                                          |
|------------------------------|----------------------------------------------------------|
| Mounting                     | Suspended                                                |
| Trade Name                   | Toughbay                                                 |
| Environment                  | Demanding                                                |
| Suitable For Zones           | Zone 1                                                   |
| Product Group                | Toughbay™ Retrofit Highbay                               |
| Color Finish                 | Black                                                    |
| Product Shape                | Round                                                    |
| Product Range                | Toughbay™ Circular Retrofit                              |
| IK Rating                    | IK10                                                     |
| Overall Dimensions           | 280Ø x 162mm                                             |
| Height (mm)                  | 162                                                      |
| Diameter (mm)                | 280                                                      |
| Product Weight(kg)           | 2.4                                                      |
| Light Source                 | LED                                                      |
| Light Source Features        | Crisp White                                              |
| Luminaire Accessories        | Surface mount bracket JC040049                           |
| Recommended Product Location | Industrial applications, warehouse, retail and mezzanine |
| Method Of Fix                | Suspension eye or surface mount bracket JC040049         |
| Distance From Lighted Object | 0.3m                                                     |

|                                |                                                                                                                         |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| IP Rating                      | IP65                                                                                                                    |
| Origin of manufacturer         | Made in China                                                                                                           |
| Warranty                       | 5 Year Warranty (includes 1 year onsite)(See Website for terms and conditions)                                          |
| Dimming Protocol Compatibility | 1-10V                                                                                                                   |
| Mounting Height                | 8m 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 |
| Driver Manufacturer            | Sosen                                                                                                                   |
| LED Manufacturer/Type          | Jufei 3030                                                                                                              |
| Lighting Product Type 1        | Bay Light                                                                                                               |
| Lighting Product Type 2        | Ceiling Mount                                                                                                           |
| Customs Tariff code**          | 9405499090                                                                                                              |

Electrical

|                                      |                                               |
|--------------------------------------|-----------------------------------------------|
| Voltage Rating                       | 220-240                                       |
| Primary Running Current(Amp)         | 1.8                                           |
| Inrush current(Amps)                 | 100 Amp max                                   |
| Operating Frequency Hz               | 50/60Hz                                       |
| Secondary running current(mA)        | 570-750                                       |
| Constant Current or Constant Voltage | CC                                            |
| Luminaire Circuit Wattage            | 150                                           |
| Class                                | I                                             |
| Total Harmonic Distortion (THD)%     | 10                                            |
| EMC Compliant (EN55015)              | yes                                           |
| Power Factor Correction              | 0.97                                          |
| Input Electrical Connections         | live(brown) neutral(blue) earth(yellow/green) |
| Dimmable                             | Yes                                           |

Thermals

|                                |                    |
|--------------------------------|--------------------|
| Thermal Cut Out                | yes, auto recovery |
| Operating Temperature Range °C | -30 to +60         |

Performance Data

|                                           |                                                                   |
|-------------------------------------------|-------------------------------------------------------------------|
| LED Life (Hours)*                         | 36000                                                             |
| Energy Rating                             | This product contains a light source of energy efficiency class E |
| Actual Lumen Output                       | 18400                                                             |
| Lumens Per Circuit Watt                   | 123 LpcW                                                          |
| 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                                                               |

Construction

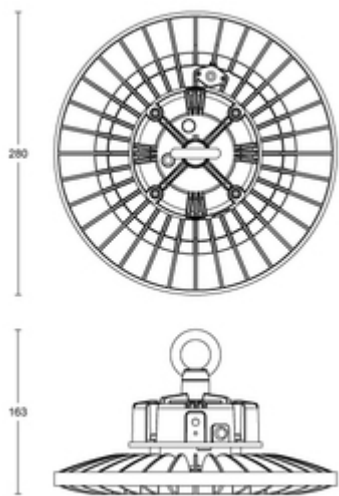
|                  |               |
|------------------|---------------|
| Primary Material | Aluminium     |
| Lens             | Polycarbonate |
| Heat Sink        | Aluminium     |
| Driver Housing   | Aluminium     |

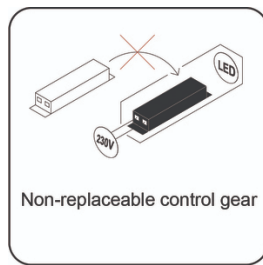
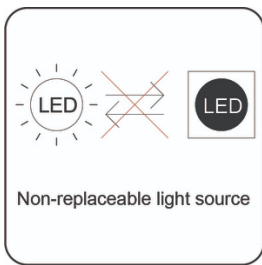
Packaging

|                                     |                |
|-------------------------------------|----------------|
| Product Packaged Weight(kg)         | 3.1            |
| Quantity Per Outer Carton           | 2              |
| Outer carton(L)- cm                 | 72             |
| Outer carton(W)- cm                 | 36             |
| Outer carton(H)- cm                 | 19             |
| Outer carton Net weight- kg         | 6.6            |
| Outer carton Gross weight- kg       | 7.2            |
| Product Bar Code EAN-13 Number      | 5052544093159  |
| Outer carton Bar Code ITF-14 Number | 15052544093156 |

Standards & Approvals

|                               |                                  |
|-------------------------------|----------------------------------|
| Manufactured In Accordance To | BS 60598-1-2015                  |
| CE Marked                     | Yes                              |
| UKCA Marked                   | Yes                              |
| Date code/Purchase order No.  | Yes                              |
| WEEE Symbol                   | Yes                              |
| Certificate Of Conformity     | Available on request             |
| Accredited Members            | LIA, ISO9001-2015, ISO14001-2015 |





\*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.

\*\*JCC Lighting Limited makes every effort to ensure that the Customs Tariff information in this document is timely and accurate. However, it's not possible for us to assure the absolute veracity and completeness of that information, as errors may occur. The placement of any inaccurate tariff information is completely unintentional. JCC Lighting Limited reserves the right, in its sole discretion, to correct any errors or omissions to the tariff code and to make any and all changes contained in this document at any time and without notice. It is the sole responsibility of the importer to ensure that the commodity code advised is correct for the products/goods being supplied by JCC Lighting Limited. JCC Lighting Limited does not assume any liabilities, losses, costs, and expenses arising out of or related to the importers use of this commodity code or the information related to the import of any JCC Lighting products.

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