

JC040009

## Toughbay Retrofit

Toughbay Retrofit 150W 60° 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 °                              | 60                                                                |
| LOR (Light Output Ratio) %                | 100                                                               |
| Photometry Available                      | Yes                                                               |

Construction

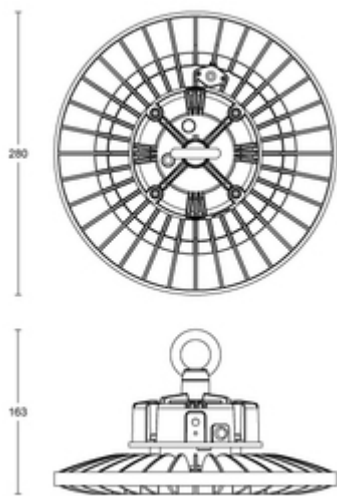
|                  |               |
|------------------|---------------|
| Primary Material | Aluminium     |
| Lens             | Polycarbonate |
| Heat Sink        | Aluminium     |
| Driver Housing   | Aluminium     |

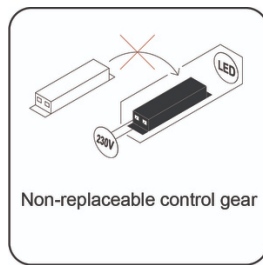
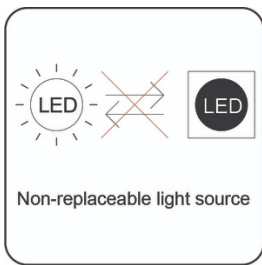
Packaging

|                                     |                |
|-------------------------------------|----------------|
| 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      | 5052544093111  |
| Outer carton Bar Code ITF-14 Number | 15052544093118 |

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.

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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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