DOWNLIGHTS
# RAMADA IP65 FIRE RATED DOWNLIGHTS

ROBUS®

This attractive looking dimmable Fire and IP65 rated downlight uses, high quality components and materials to provide an exceptionally versatile long-life downlight solution for Domestic or Commercial installations. It replaces inefficient traditional Halogen or Compact Fluorescent light sources to make huge energy cost savings to reduce carbon emissions

## Applications:

- Domestic dining, living, bathroom and bedroom spaces
- Hotel & Office reception areas
- Shops and other retail premises
- Pubs, clubs and restaurants
- Complimentary lighting in meeting or function rooms

## Construction:

White powder coated die-cast aluminium trim

Die-cast aluminium body

Clear toughened glass cover

Pressed steel insulation stand-off

Spring steel ceiling fixing springs

| Features: | Benefits: |
|---|---|
| • White powder coated die-cast aluminium trim as standard, complete with brushed chrome clip on trim accessory | • Quality materials provide great aesthetics and alternative colour finish to match or contrast with décor, door, or other furniture |
| • Optional polished chrome clip-on trim - RRATRIM-03 | • Ideal for matching to polished chrome bathroom fittings |
| • Die-cast Aluminium body | • Conducts heat away from LED's and driver to ensure cool running and long life |
| • Available in 3,000K or 4,000K options | • Provides a warm or neutral white light colour choice depending on use of the lit space |
| • High quality single LED and driver technology provide:<br>  • Comparable light output to 50W LV Halogen<br>  • Low power consumption of only 8.5 watts<br>  • Cool running<br>  • Long life | • Provides a one for one replacement for LV Halogen, particularly useful as retro-fit where all cut-outs can be utilised<br>• Compared to many lower performing LED alternatives available reduces the number of fittings and therefore the solution cost<br>• Wide ambient operating temperature range for hot environments<br>• No maintenance costs or inconvenient lamp failures in commercial, entertainment or retail installations |
| • Solid state technology | • Suitable for switching by most sensor or control systems, with long or short time delays, without detriment to life time<br>• Life is not affected by on/off heating/cooling cycles as are many traditional light sources |
| • Integral driver compatible with many leading/trailing edge dimmers | • Provides selectable light levels suitable for task or subtle lighting<br>• Driver location choice is not an issue |
| • 60 degree LEDchroic optic | • Wide, uniform light beam provides the star-like twinkle of Halogen without bright or dark rings and patches often associated with it |
| • Integrated insulation stand-off | • Allows mineral insulation to be loosely laid over the fitting to reduce cold spots in the void space without overheating issues |
| • 130mm 2 core flex to remote, large terminal connector block | • Allows for 1.5mm$^2$ solid or stranded, loop in/out termination |
| • Independently tested for compliance with parts B, C & E of Building Regulations | • Retains the integrity of traditional 30, 60 & 90-minute fire rated ceiling and floor joist combinations<br>• Complies with regulatory acoustic and air-flow requirements |
| • Ingress Protection of IP65 | • The same fitting is suitable for installation in most areas of a property to provide a common aesthetic |

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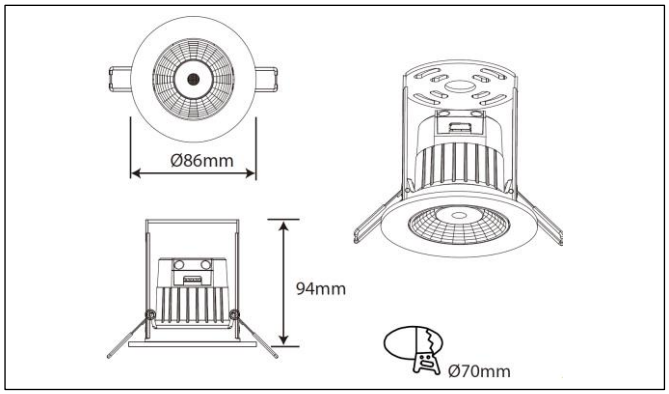
| Product Code: | RRA083060-01 | RRA084060-01 |
|---|---|---|
| Comparable to Halogen (W): | 50 | 50 |
| Total Power (W): | 8.5 | 8.7 |
| Total Light Output (lm): | 590 | 670 |
| Efficacy (lm / cctW): | 69 | 77 |
| Rated Life (hrs): | 30,000 | 30,000 |
| Warranty (yrs): | 2 | 2 |
| Illuminance at 1m (lux): | 540 | 640 |
| Beam Angle (deg): | 60 | 60 |
| CCT (K): | 3,000 | 4,000 |
| CRI (Ra): | 80 | 80 |
| Ingress Protection (IP): | 65 | 65 |
| Operating Temperature (˚C): | -20 < Ta < +40 | -20 < Ta < +40 |
| Operating Voltage (Vac): | 220-240 | 220-240 |
| Power Factor (PF): | 0.9 | 0.9 |
| Cut Out (mm): | 70 | 70 |
| Height (mm): | 94 | 94 |
| Diameter (mm): | 86 | 86 |
| Box Qty: | 1 | 1 |
| Weight (kg): | 0.3 | 0.3 |




## Accessories:

| | |
|---|---|
| **White and Brushed Chrome trims** | **Included** |
| **Optional Polished Chrome clip-on trim** | **RRATRIM-03** |

## Standards & Approvals:

**Complies with:** EN 60598-1, EN 60598-2-2, EN 62471, EN 62493, EN 55015, EN 61000-3-2, EN 61000-3-3, BS 476-21, EN 61374-1, EN 61374-2-13, EN61547, EN62031

Cone Illuminance Diagram:

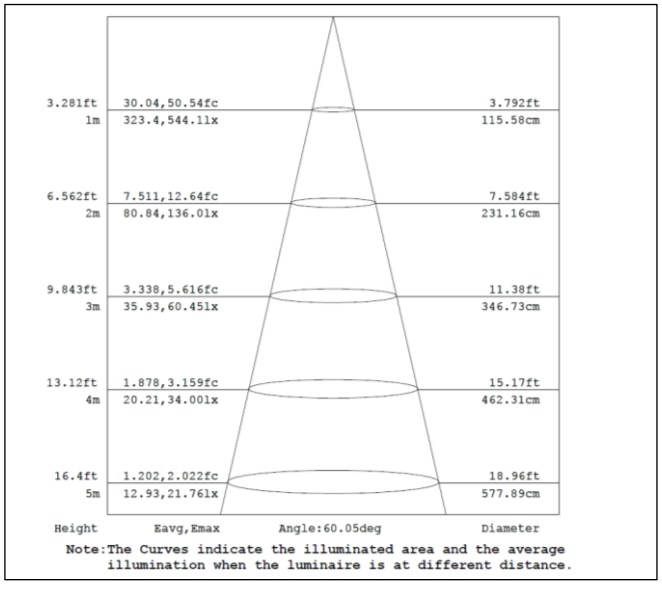



Diagram for RRA083060-01. Other diagrams available on request

Polar Intensity Diagram:

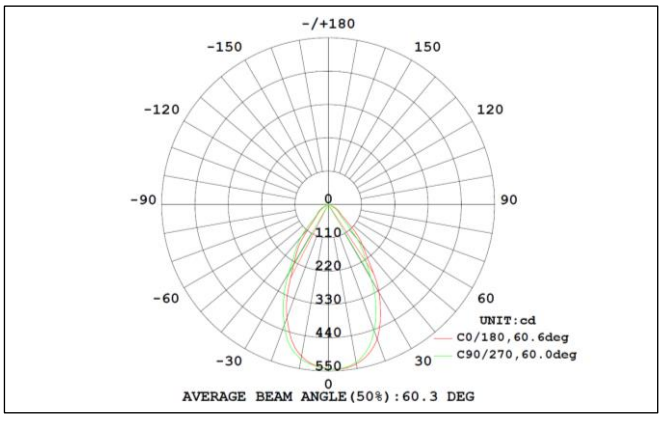



Diagram for RRA083060-01. Other diagrams available on request