RICOMAN®

SMARTER LED LIGHTING

Product Catalogue 2016/2017 V3.2

Lighting You Can Trust

www.ricomanled.com

Society of Light and Lighting

Lighting Industry Association

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Dimmable

Beam Angle

Lumens

RGB Available

Ingress Protection

Low Glare

Guarantee years

IK Rating

Fire Rated

Fitting Depth

CRI

Self Test

Tilt

Product Life Time in Hours (50K = 50,000)

RICOMAN at a Glance

RICOMAN is a **fully LED focused** lighting manufacturer, with its head office, dedicated showroom and distribution facilities based in Trafford Park, Manchester. We are the strategic extension of a highly experienced manufacturing base in China.

RICOMAN's product range covers a variety of commercial and industrial needs, which include low glare Capella downlight, the versatile Canopus Multi-Purpose Fitting, anti-corrosive Trident fittings, low UGR office luminaires and the highly efficient Jupiter high bays.

At RICOMAN we ensure all products supplied by us are fully CE compliant and conform to the relevant EU directive of LVD, EMC, ErP and RoHS. Many of the products are certified by TüV, Germany, to give you extra peace of mind. We are also a member of the Lighting Industry Association (LIA) and the Society of Light and Lighting (SLL).

Using **top class components** from Samsung, CREE, Bridgelux and MeanWell, RICOMAN collaborates with some of the biggest electrical wholesalers in the UK.

Some of our recently completed projects include Radley Handbags, Virgin Active Gyms and University Technical College Bolton.

Among RICOMAN's competitive advantages are its readiness for **fast delivery** throughout the UK, free lighting scheme consultation and our large stockholdings in the heart of the UK. 2015-16 is a landmark period with the introduction of a number of innovative products and over 40% growth from the previous year.

Society of Light and Lighting

Our Vision & Mission

Here at RICOMAN, our vision is to be your most trusted lighting manufacturer by becoming market leaders in LED lighting product engineering, backing it up with unparalleled customer service.

Our mission reflects our purpose as a company, being inspired by our core principles; V.I.P.

- **Value**: we aim to provide value to our clients, by offering high standard products and professional service from the initial lighting scheme design, to after-sale service.
- **Innovation**: we constantly strive to deliver the greatest innovations to the market by listening to our client feedback and constantly investing in research and development.
- **Product excellence**: we are committed to using advanced and class leading components and delivering products with exceptional design, engineering and reliability.

RICOMAN®
SMARTER LED LIGHTING

Our Factory

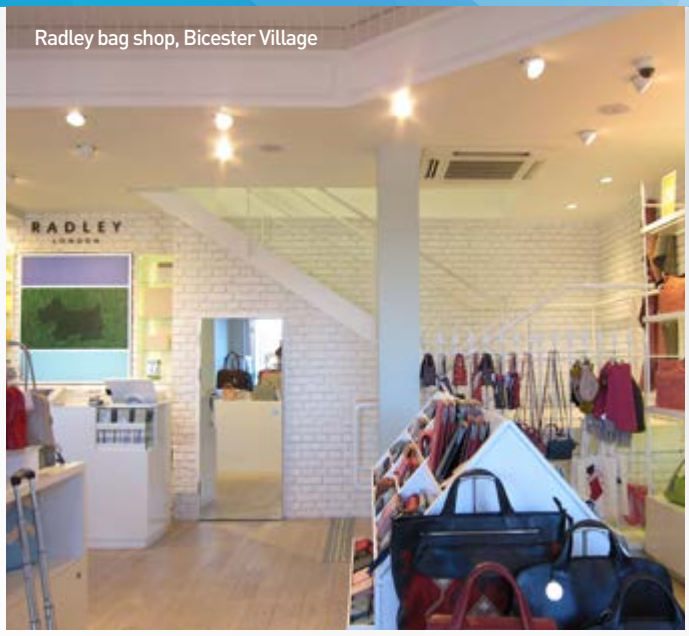
Lighting Projects

University Technical College, Bolton.

Ideal Care Home Beech Hall, Leeds

Manchester Aquatic Centre

Torpoint Medical Centre



Radley bag shop, Bicester Village

Virgin Active Gym Reception

RICOMAN®

SMARTER LED LIGHTING

Lighting Design Service

Committed to your needs

Hanger Interior installation of Canopus 200w

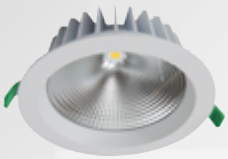
No matter how demanding your project is, our **Complete Project Solutions Team** is here to provide you only smarter LED solutions. Our highly experienced and dynamic CPS managers have completed projects in areas such as offices, schools, retail spaces, residential buildings, warehouses and indoor/outdoor car parks. We can create tailor made designs for your needs, by means of our technical knowledge, aesthetic creativity and functional principles.

We provide free on-site consultations, surveys, design and advisory services on your project, as well as 3D design simulations using industry recognised Relux software. For lighting designers and architects, photometric data for our products are fully available upon request. At RICOMAN we also provide a comprehensive warranty on all our products, so that you can have complete peace of mind.

To find out more about our smarter LED solutions, please speak to our dedicated CPS team.

0161-877-1399 **support@ricomanled.com** **www.ricomanled.com**

New Product Overview



Capella CoB Downlight

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Saturn Series

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Prism Panel 600 x 600

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Aqua Track Light

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Style Track Light

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Comet Track Light

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Altair Bulkhead

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Alphard Bulkhead
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Aeroline Ultra Flexi Light
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Canopus Multi-Purpose Fitting
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Jupiter High Bay
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Trident Anti-Corrosive Fitting
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Meteor Linear Batten
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Universal Emergency Pack
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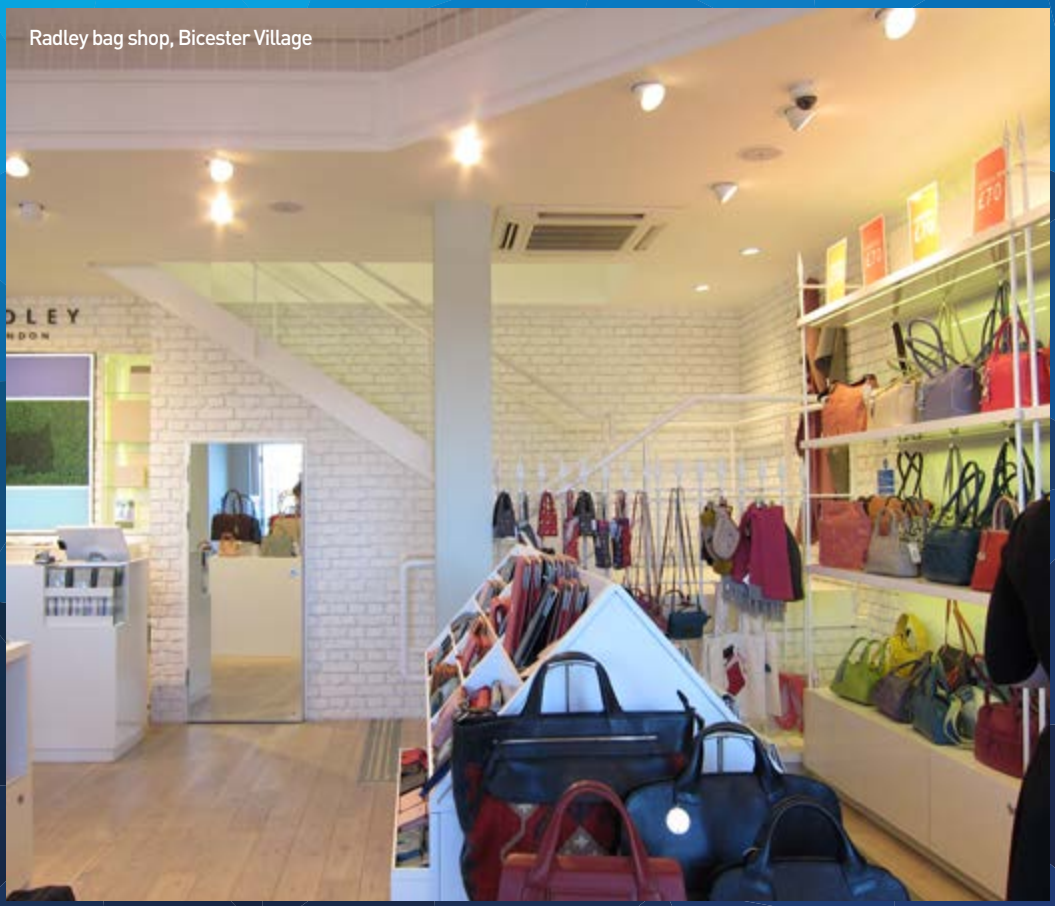
Ideal Care Home Beech Hall, Leeds

Manchester Aquatic Centre



Radley bag shop, Bicester Village

Downlights

RICOMAN offers a comprehensive range of downlights suitable for a variety of applications in commercial, educational, retail and industrial environments. RICOMAN downlights combine exacting engineering principles with an unobtrusive aesthetic appearance in all the luminaire designs. The Cree & Bridgelux light sources ensure >85 lm/w and exceptional CRI in excess of 80 Ra.

The engineering principles used during the manufacturing process and the 5 year warranty ensure complete peace of mind to both the installer and the user.

Capella CoB Downlight

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Triton Series

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Ultra-Slim R Series

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Venus Spot

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Ultra-Slim S Series

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Starlight Spot

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Saturn Series

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Fire-Rated Spot

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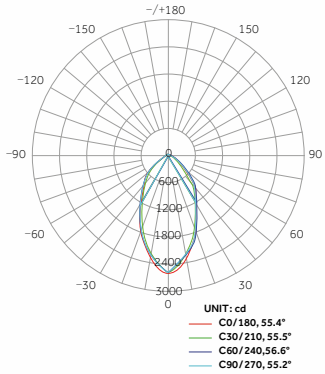
Capella CoB Downlight

*** DALI and Emergency option available**

- Focused spot lighting effect
- Low glare rating
- DALI and Emergency option available
- Applications: retail, educational, commercial



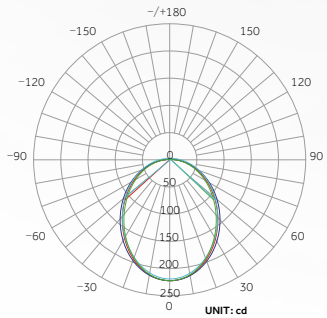
AVERAGE BEAM ANGLE (50%): 55.7 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Hole Size (mm)	Dimension (mm)	Voltage (V)
R093101	9	765	5000	80	60	No	54	Ø90	Ø110 x H42	220-240
R093102	12	1020	5000	80	60	No	54	Ø120	Ø140 x H53	220-240
R093103	22	1870	5000	80	60	No	54	Ø165	Ø193 x H75	220-240
R093104	30	2550	5000	80	60	No	54	Ø200	Ø230 x H88	220-240

Ultra-Slim R Series

*** DALI and Emergency option available**

- Less than 30 mm deep
- 5 sizes and 3 colour temperature options
- DALI and Emergency option available
- Applications: domestic, commercial, educational, leisure, hospitality

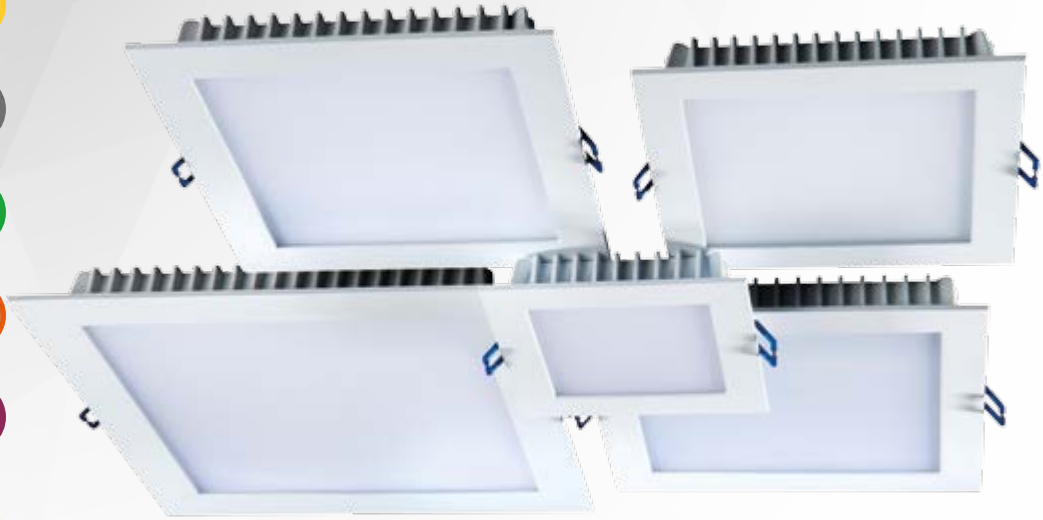


AVERAGE BEAM ANGLE (50%): 95 . 4 DEG

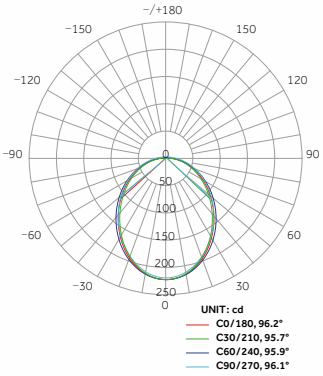
Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Hole Size (mm)	Dimension (mm)	Voltage (V)
R091501/R091512/ R091502	8	710	3000/5000/6000	80	90	Yes	54	Ø95	Ø110 x H24	220-240
R091503/R091514/ R091504	11	945	3000/5000/6000	80	90	Yes	54	Ø125	Ø140 x H25	220-240
R091505/R091516/ R091506	15	1380	3000/5000/6000	80	90	Yes	54	Ø140	Ø160 x H26	220-240
R091507/R091518/ R091508	18	1645	3000/5000/6000	80	90	Yes	54	Ø160	Ø180 x H27	220-240
R091509/R091520/ R091510	23	2135	3000/5000/6000	80	90	Yes	54	Ø200	Ø230 x H28	220-240

Ultra-Slim S Series

*** DALI and Emergency option available**



- Less than 30 mm deep
- 5 sizes and 3 colour temperature options
- DALI and Emergency option available
- Applications: domestic, commercial, educational, leisure, hospitality



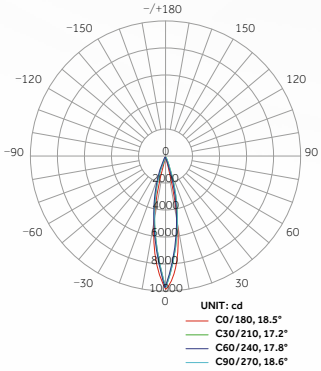
AVERAGE BEAM ANGLE (50%): 96.0 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Hole Size (mm)	Dimension (mm)	Voltage (V)
R091601/R091612/ R091602	8	710	3000/5000/ 6000	80	90	Yes	54	95 x 95	H24 x L110 x W110	220-240
R091603/R091614/ R091604	11	945	3000/5000/ 6000	80	90	Yes	54	125 x 125	H25 x L140 x W140	220-240
R091605/R091616/ R091606	15	1380	3000/5000/ 6000	80	90	Yes	54	140 x 140	H26 x L160 x W160	220-240
R091607/R091618/ R091608	18	1645	3000/5000/ 6000	80	90	Yes	54	160 x 160	H27 x L180 x W180	220-240
R091609/R091620/ R091610	23	2135	3000/5000/ 6000	80	90	Yes	54	200 x 200	H28 x L230 x W230	220-240

Saturn Series

*** Emergency option available**

- Complete versatility with rotation and angle adjustments
- 3 sizes and 2 colour temperature options
- Emergency option available
- Applications:retail, commercial, display, educational



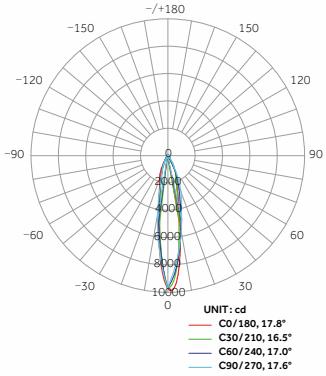
AVERAGE BEAM ANGLE (50%): 18 . 0 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Hole Size (mm)	Dimension (mm)	Voltage (V)
R091801/ R091802	12	1020	3000/5000	80	40	No	20	Ø82	Ø96 x H55	220-240
R091803/ R091804	24	2040	3000/5000	80	40	No	20	Ø145	Ø160 x H122	220-240
R091805/ R091806	40	3200	3000/5000	80	40	No	20	Ø165	Ø190 x H137	220-240

Triton Series

*** Emergency option available**

- 3 sizes and 2 colour temperature options
- Dimmable
- Versatility of rotation and angle adjustments
- Emergency option available
- Applications: retail, commercial, display



AVERAGE BEAM ANGLE (50%): 17.2 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Hole Size (mm)	Dimension (mm)	Voltage (V)
R092001/ R092002	15	1200	3000/4000	80	40	Yes	20	160 X 160	H91 x L175 x W175	220-240
R092003/ R092004	30	2400	3000/4000	80	40	Yes	20	315 X 160	H91 x L330 x W175	220-240
R092005/ R092006	45	3600	3000/4000	80	40	Yes	20	460 X 160	H91 x L475 x W175	220-240

Venus Spot

*** Emergency option available**

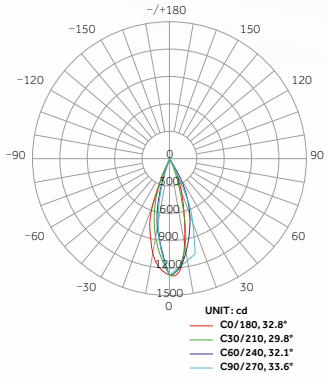
Lm/w >85

>80

>50K

70W
HALOGEN REPLACEMENT

- 70W halogen replacement
- 2 colour temperature options
- Angle adjustments
- Emergency option available
- Applications: domestic, retail, commercial



AVERAGE BEAM ANGLE (50%): 32 . 1 DEG

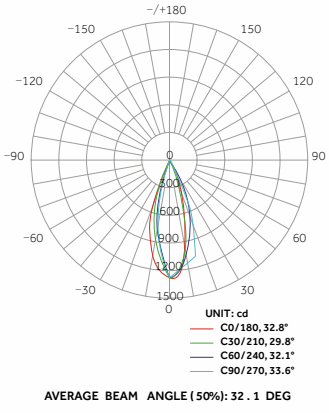
Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Hole Size (mm)	Dimension (mm)	Voltage (V)
R091203/R091204	9	735	3000/5000	80	40	Yes	20	Ø60	Ø70 x H60	220-240

Starlight Spot

*** Emergency option available**

70W
HALOGEN REPLACEMENT

- 70W halogen replacement
- 2 colour temperature options
- Emergency option available
- Applications: domestic, retail, commercial



AVERAGE BEAM ANGLE (50%): 32 . 1 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Hole Size (mm)	Dimension (mm)	Voltage (V)
R091403/R091404	8	715	3000/5600	80	38	Yes	20	Ø60	Ø70 x H60	220-240

Fire-Rated Spot

*** Emergency option available**

>80

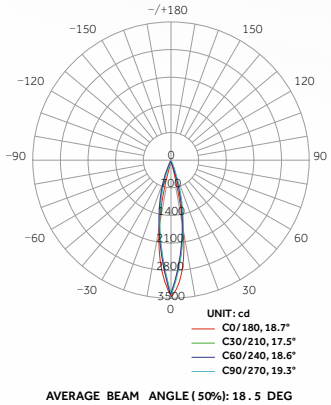
>50K

5 YEAR GUARANTEE

70W
HALOGEN
REPLACEMENT

CREE

- 70W halogen replacement
- 2 colour temperature options
- Emergency option available
- Applications: domestic, retail, commercial, wet areas



AVERAGE BEAM ANGLE (50%): 18.5 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Hole Size (mm)	Dimension (mm)	Voltage (V)
R091103/R091104	9	735	3000/5000	80	40	Yes	54	Ø65	Ø90 X H79	220-240

Torpoint Medical Centre

Torpoint Medical Centre

University Technical College, Bolton.

Panel Lights

RICOMAN panels incorporate many innovative design features that provide unsurpassed flexibility and ease of installation. Panels are available in a large range of options and sizes. Less than 13 mm deep, there is no light leakage with the seamless screw free design. Panels deliver greater uniformity, low glare, constant colour rendering and in excess of >85 lm/w. Secondary fixing kits are supplied with all RICOMAN panels.

Prism Panel 600 x 600

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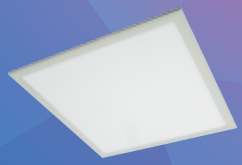

Pure Panel 600 x 600

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RICOLite Panel 600 x 600

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RGB Panel

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Breeze Panel 600 x 600

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CTC Panel

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Breeze Panel Other Sizes

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Mounting Methods & Accessories

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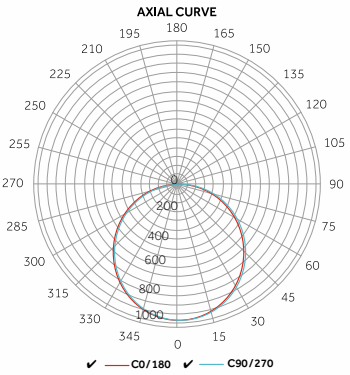
Prism Panel 600 x 600

*** DALI and Emergency option available**

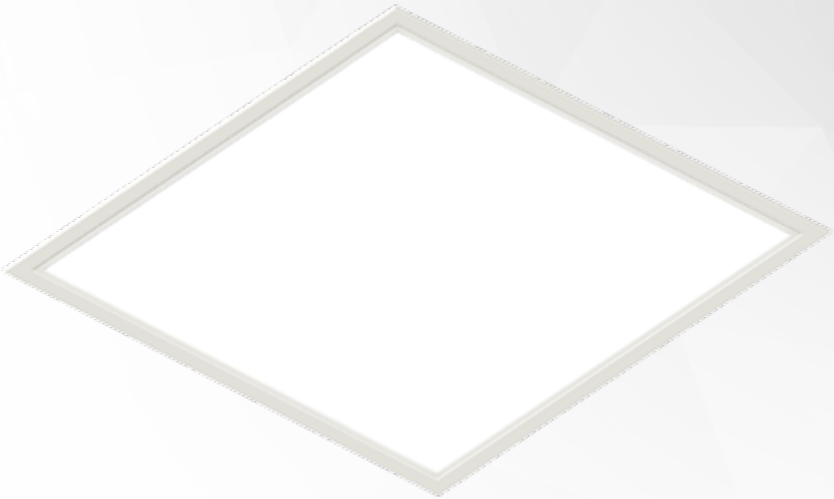
- Micro-prism diffuser for all round glare control
- UGR <19
- No flicker
- DALI and Emergency option available
- Applications: commercial, education, recreation, hospitality, medical



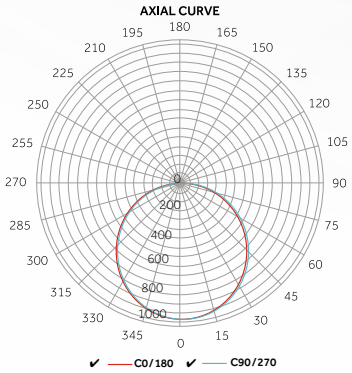
Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	UGR	Dimension (mm)	Voltage (V)
R101112	36	2880	4000	82	120	No	54	<19	595 x 595 x 10	AC100-240V
R101113	48	3680	4000	82	120	No	54	<19	595 x 595 x 10	AC100-240V

RICOLite Panel 600 x 600

*** DALI and Emergency option available**



- Double PFC LED Driver and extra-long life
- No flicker
- DALI and Emergency option available
- Applications: commercial, education, food processing, recreation, hospitality, medical

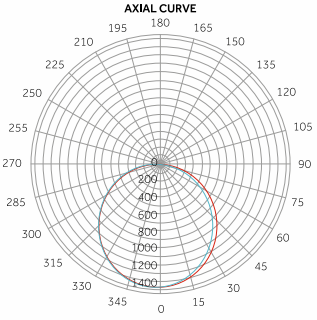


Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Dimension (mm)	Voltage (V)
R101108	36	3060	5000	82	120	No	44	595 x 595 x 10	AC100-240V
R101108/DL	36	3060	5000	82	120	Yes	44	595 x 595 x 10	AC100-240V
R101109	48	4080	5000	82	120	No	44	595 x 595 x 10	AC100-240V
R101109/DL	48	4080	5000	82	120	Yes	44	595 x 595 x 10	AC100-240V

Breeze Panel 600 x 600

*** DALI and Emergency option available**

- Up to 90% more energy efficient than fluorescent
- IP65 rated
- No flicker
- DALI and Emergency option available
- Applications: commercial, education, food processing, recreation, hospitality, medical



Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Dimension (mm)	Voltage (V)
R101103	36	3420	5000	85	120	No	65	596 x 596 x 12.5	AC110-265V
R101103/DL	36	3420	5000	85	120	Yes	65	596 x 596 x 12.5	AC110-265V
R101101	48	4560	5000	85	120	No	65	596 x 596 x 12.5	AC110-265V
R101101/DL	48	4560	5000	85	120	Yes	65	596 x 596 x 12.5	AC110-265V

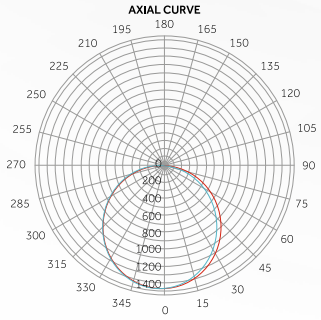
Breeze Panel Other Sizes

*** DALI and Emergency option available**

Breeze Panel 1200 x 300 R101203

Breeze Panel 1200 x 600 R101301

- Up to 90% more energy efficient than fluorescent
- IP65 rated
- No flicker
- DALI and Emergency option available
- Applications: commercial, education, food processing, recreation, hospitality, medical



Breeze Panel 1200 x 300

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Dimension (mm)	Voltage (V)
R101203	36	3420	5000	> 85	120	No	65	1196 x 296 x 12.5	AC100-240V
R101203/DL	36	3420	5000	> 85	120	Yes	65	1196 x 296 x 12.5	AC100-240V
R101201	48	4560	5000	> 85	120	No	65	1196 x 296 x 12.5	AC100-240V
R101201/DL	48	4560	5000	> 85	120	Yes	65	1196 x 296 x 12.5	AC100-240V

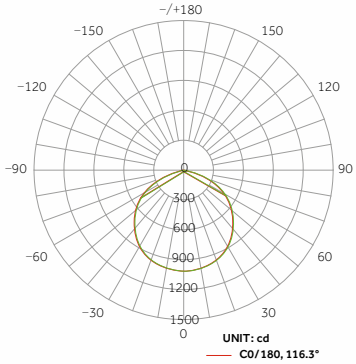
1200 x600

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Dimension (mm)	Voltage (V)
R101301	72	6840	5000	> 85	120	No	65	1195 x 595 x 12.5	AC100-240V

Pure Panel 600 x 600

*** DALI and Emergency option available**

- A convenient solution for a variety of installations
- Cost efficient
- DALI and Emergency option available
- Applications: commercial, recreation, hospitality

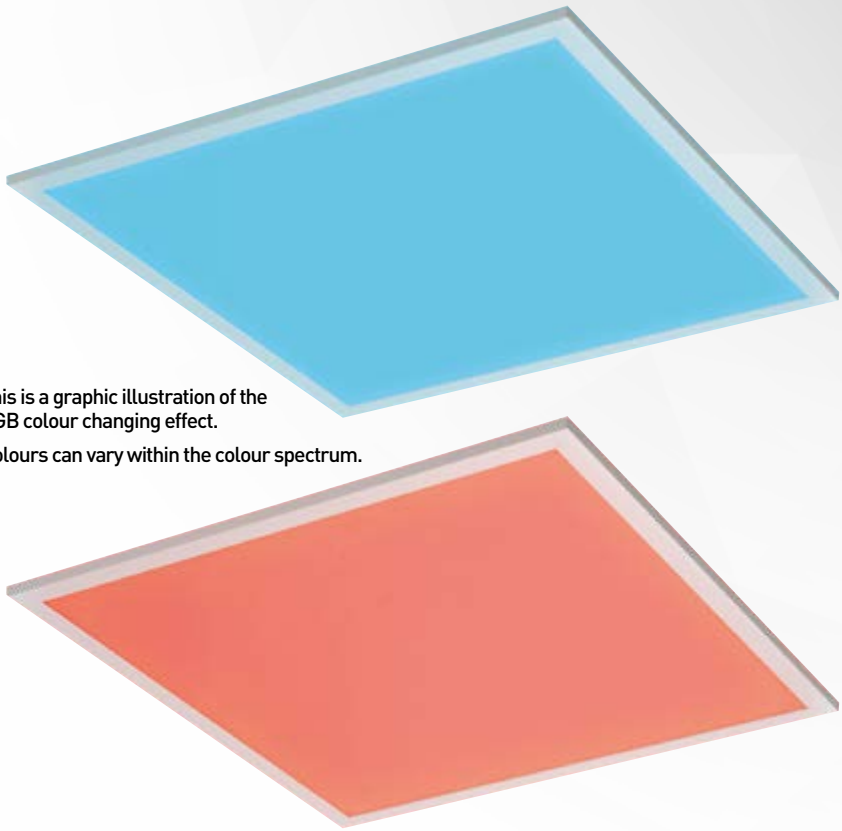


AVERAGE BEAM ANGLE (50%): 116.4 DEG

✷ 5 year guarantee applies to the panel
the driver has 3 year guarantee.

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Dimension (mm)	Voltage (V)
PL36W5KN	36	3060	5000	80	120	No	44	596 x 596 x 12.5	AC200-240V

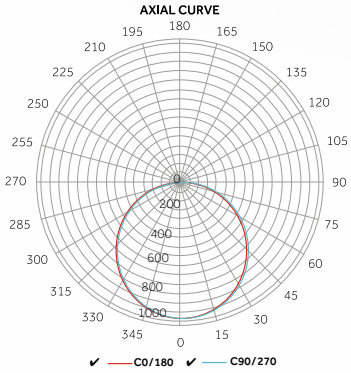
RGB Panel



This is a graphic illustration of the RGB colour changing effect.

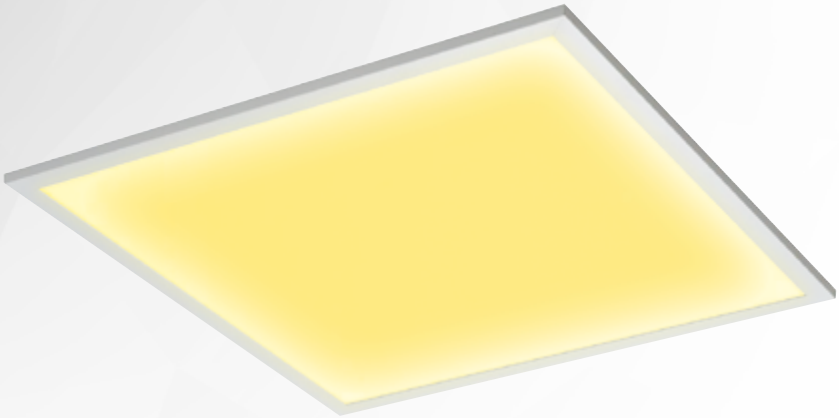
Colours can vary within the colour spectrum.

- Exceptional colour changing & dimming versatility
- IP65 rated
- Applications: hotels, restaurants, bars, sensory rooms, car showrooms, feature areas

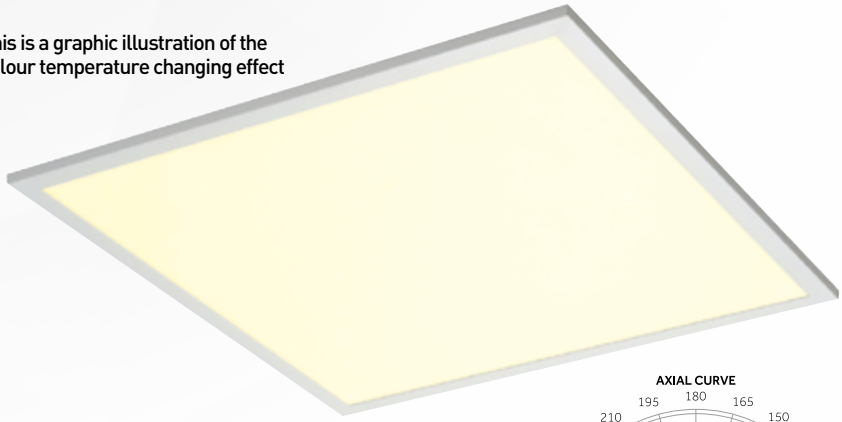


Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Dimension (mm)	Voltage (V)
R101106	36	3060	RGB	80	120	Yes	65	595 x 595 x 10	AC100-240V

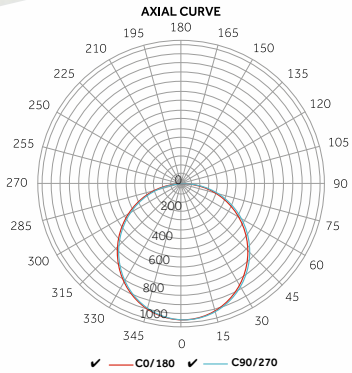
CTC Panel



This is a graphic illustration of the colour temperature changing effect



- Comprehensive colour temperature change and dimming
- IP65 rated
- Applications: hospitals, care homes, medical centres, hospitality



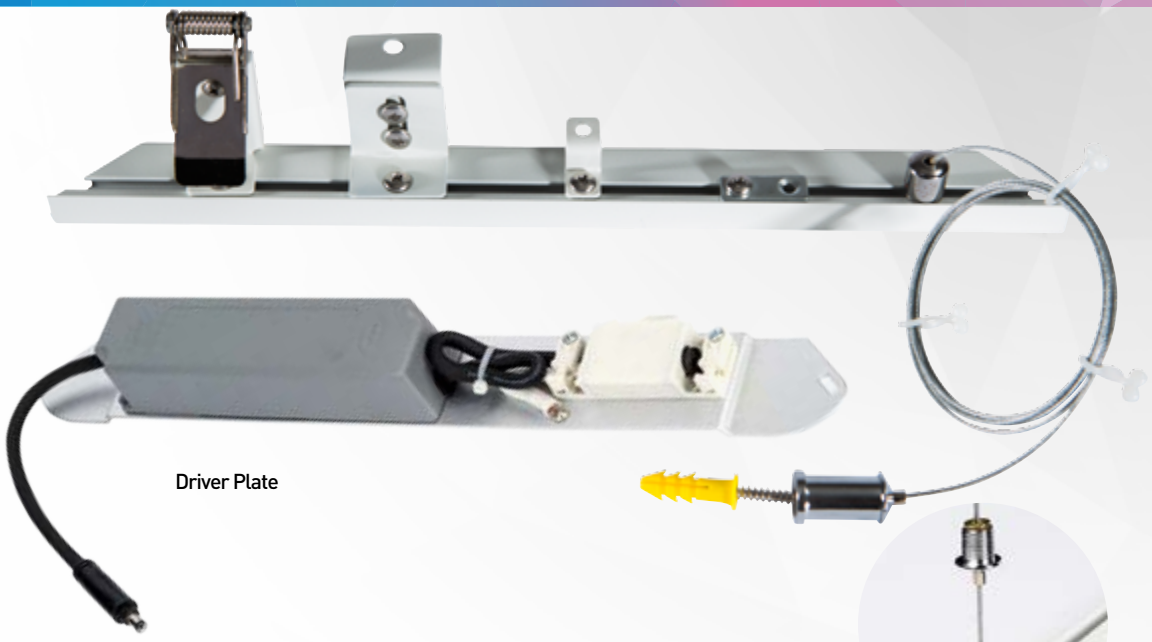
Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Dimension (mm)	Voltage (V)
R101107	36	3060	2500-6500	80	120	Yes	65	595 x 595 x 10	AC100-240V

Order Code	Description
RE22	✷ CTC Panel Wall Mounted Control
RE23	✷ CTC Panel Remote Control

✷ Both controls can synchronize up to 99 units

Mounting Methods & Accessories

Ultimate Versatility



Driver Plate

Suspended Method

Panels offer ultimate installation versatility, whatever the scenario. With their seamless design and the captive nuts, our panels help enhance the aesthetic of your environment.

There are numerous ways to install our panels; the most popular and effective way is the recessed installation. Also, there are other options available such as the suspended method, L clip mounting method and the innovative Z clip mounting method

L Clip

Z Clip

Order Code	Description
RE01	Suspension Kit (Pack of 4)
RE02	Z-Clips (Pack of 4)
RE03	L-Clips (Pack of 4)
RE04	Driver Plate
RE05	Surface Mounting Frame
RE06	Y Suspension
RE07	Offset Bracket (Pack of 4)
RE08	Linear Clips
RE09	Burgess Clips

Track Lights

RICOMAN track light range provides an efficient and aesthetically pleasing solution for any lighting installation. Fully adjustable with differing sizes and wattages allows total flexibility to any project, commercial or domestic. Colour rendition over 90 Ra is standard across the RICOMAN track light range, ensuring the object is reflected in the best possible way. All products have a comprehensive 5 year warranty and are compatible with global tracks.

Aqua Track Light

Page 36

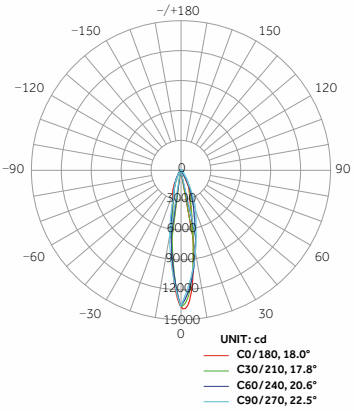
Comet Track Light

Page 38

Style Track Light

Page 37

Aqua Track Light



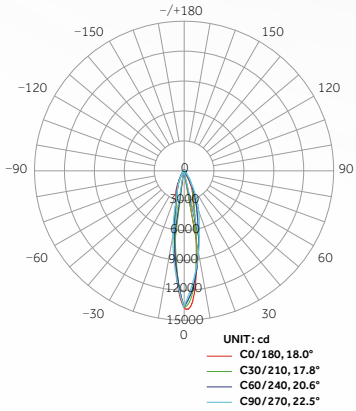
AVERAGE BEAM ANGLE (50%): 19.7 DEG

- 2 options of wattage and size
- Exceptional colour rendition
- Versatility of rotation and angle adjustments
- Applications: retail, display, car exhibitions, museums, galleries, restaurants

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Dimensions (mm)	Voltage (V)
R111103/W	24	2040	4000	90	24	No	20	Ø130 x 308 x 243	AC100-240V
R111104/W	40	3400	4000	90	24	No	20	Ø130 x 308 x 243	AC100-240V

Style Track Light

- 2 options of wattage and size
- Exceptional colour rendition
- Versatility of rotation and angle adjustments
- Applications: retail, display, car exhibitions, museums, galleries, restaurants

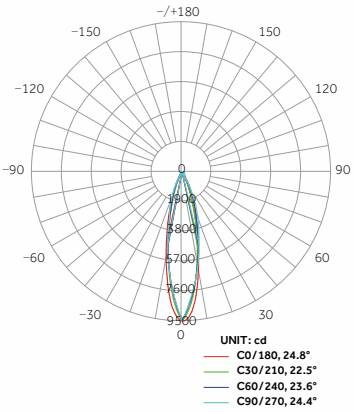


AVERAGE BEAM ANGLE (50%): 19.7 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Dimensions (mm)	Voltage (V)
R111203/W	24	2040	4000	90	24	No	20	Ø120 x 265 x 203	AC100-240V
R111204/W	40	3400	4000	90	24	No	20	Ø120 x 265 x 203	AC100-240V

Comet Track Light

- Exceptional colour rendition
- Versatility of rotation and angle adjustments
- Applications: retail, display, car exhibitions, museums, galleries, restaurants



AVERAGE BEAM ANGLE (50%): 23.8 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Dimensions (mm)	Voltage (V)
R111303/W	30	2550	4000	90	24	No	20	Ø100 x 221 x 136	AC100-240V

Bulkheads

RICOMAN range of surface mounted luminaires saves time on installation and combines high lumen output with excellent colour rendering and superior design. Integral Microwave Sensor and Emergency options are available throughout the range. All the range is covered by our comprehensive 5 year warranty

Altair Bulkhead

Page 42

Alphard Bulkhead

Page 43

Altair Bulkhead

Microwave Sensor and Emergency option available

Lm/w >85

80

>50K

IP 65

IK 10

120

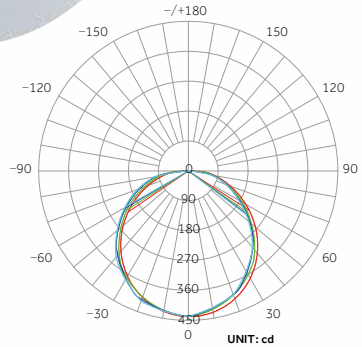
5 Guarantee

TRIDONIC
enlightening your ideas

The smart wiring cover plate...

...minimizes installation time & effort

- Fast effortless installation
- Internal Tridonic driver
- Polycarbonate body
- Microwave Sensor and Emergency option available
- Applications: corridors, stairwells, store rooms, exterior security, domestic



AVERAGE BEAM ANGLE (50%): 112.8 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	Added Features	IP Rating	IK rating	Dimension (mm)	Voltage (V)
R181201	14	1190	5000	80	120	No		65	10	Ø301 x H95	AC90-260V
R181201/E	14	1190	5000	80	120	No	Emergency	65	10	Ø301 x H95	AC90-260V
R181201/MW	14	1190	5000	80	120	No	Microwave Sensor	65	10	Ø301 x H95	AC90-260V

Alphard Bulkhead

Microwave Sensor and Emergency option combinations available in a single unit

Lm/w >85

>80

>50K

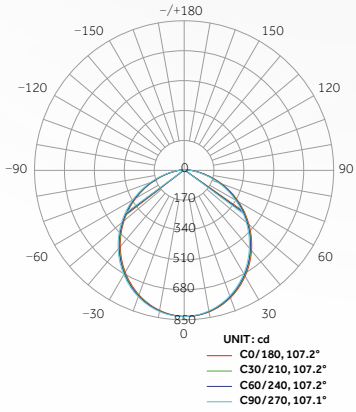
IP 65

IK 10

120

5 GUARANTEE

- Superior design features
- Vandal resistant
- Cast aluminium body
- Microwave Sensor and Emergency option combinations available in a single unit
- Applications: corridors, stairwells, exterior security and feature lighting

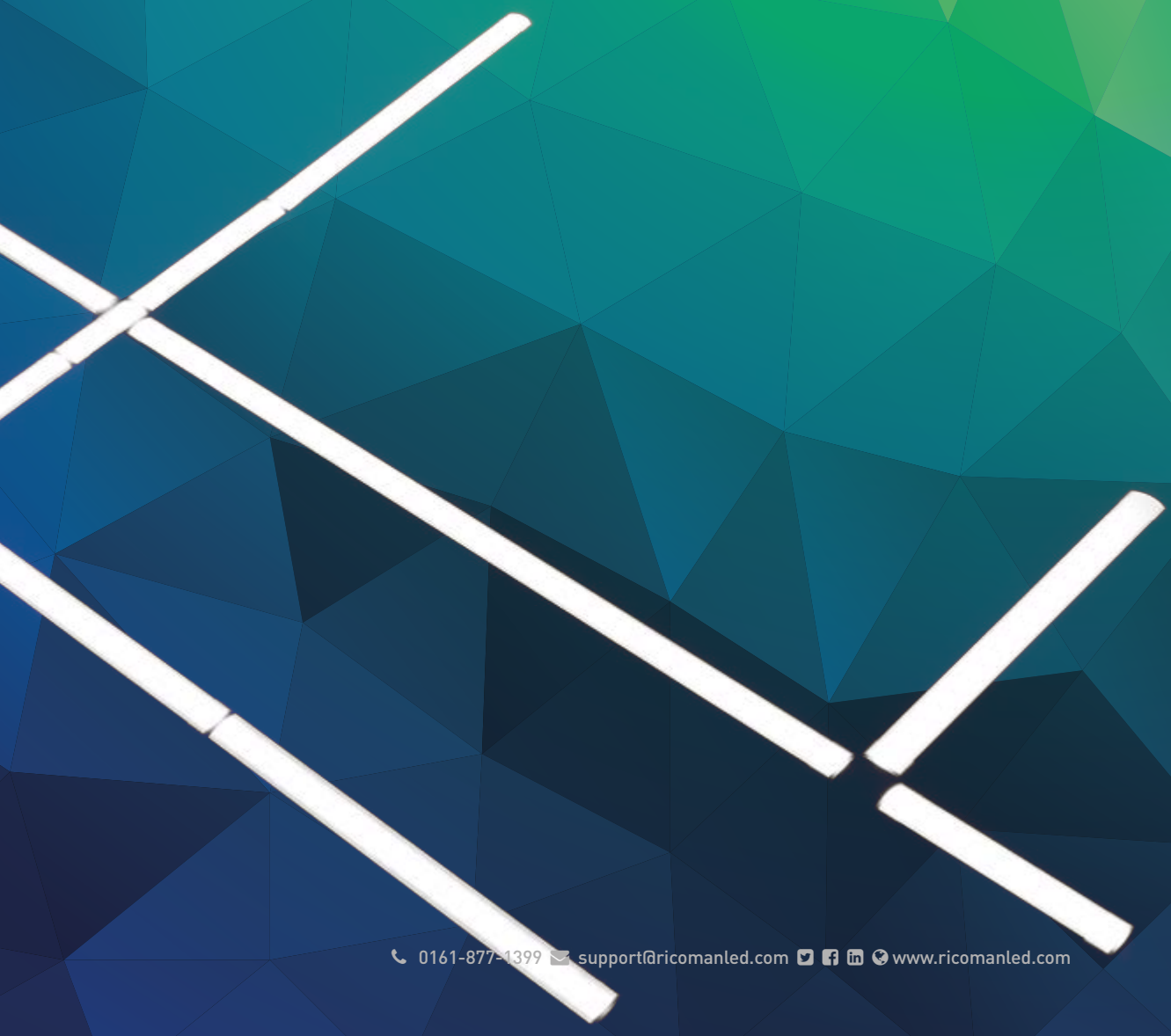


AVERAGE BEAM ANGLE (50%): 107.2 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	Added Features	IP Rating	IK rating	Dimension (mm)	Voltage (V)
R181101	24	2040	5000	80	120	No		65	10	Ø350 x H90	AC220-240V
R181101/E	24	2040	5000	80	120	No	Emergency	65	10	Ø350 x H90	AC220-240V
R181101/MW	24	2040	5000	80	120	No	Microwave Sensor	65	10	Ø350 x H90	AC220-240V
R181101/MW/E	24	2040	5000	80	120	No	Emergency + Microwave Sensor	65	10	Ø350 x H90	AC220-240V

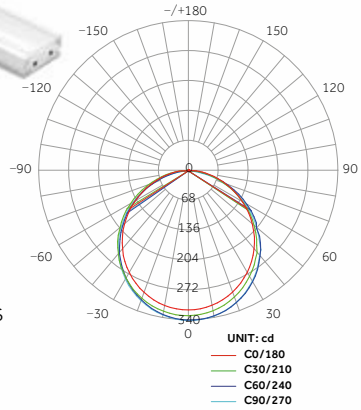
Aeroline Ultra Flexi Light

Flexibility is "the name of the game". A full range of lengths, joints, mounting options and additional accessories makes this product suitable for numerous applications. Our touch switch operation makes dimming easily controlled. Two colour temperatures are available. All the Aeroline Ultra Flex components are covered by our 3 year comprehensive warranty.

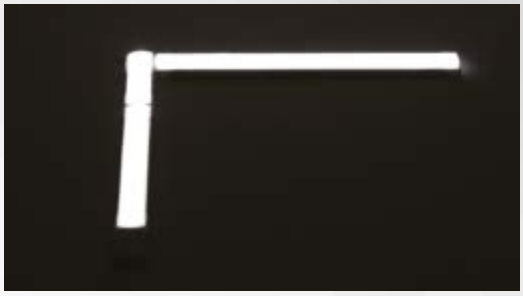


Aeroline Ultra Flexi Light

- Even light distribution with “no dark spots”
- Optional lengths to fit individual installations
- Fast and easy installation
- Versatility for any installation with 17 accessories
- Applications: domestic, commercial, decorative



AVERAGE BEAM ANGLE (50%): 113.8 DEG



Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	IP Rating	Dimensions (mm)	Voltage (V)
R240101/R240102	2.5	210	3000/6000	82	120	Yes	20	H8 x L150 x W18	DC24V
R240201/R240202	5	375	3000/6000	82	120	Yes	20	H8 x L300 x W18	DC24V
R240301/R240302	9	630	3000/6000	82	120	Yes	20	H8 x L600 x W18	DC24V
R240401/R240402	14	1000	3000/6000	82	120	Yes	20	H8 x L900 x W18	DC24V
R240501/R240502	15	1050	3000/6000	82	120	Yes	20	H8 x L1000 x W18	DC24V
R240601/R240602	16	1100	3000/6000	82	120	Yes	20	H8 x L1200 x W18	DC24V

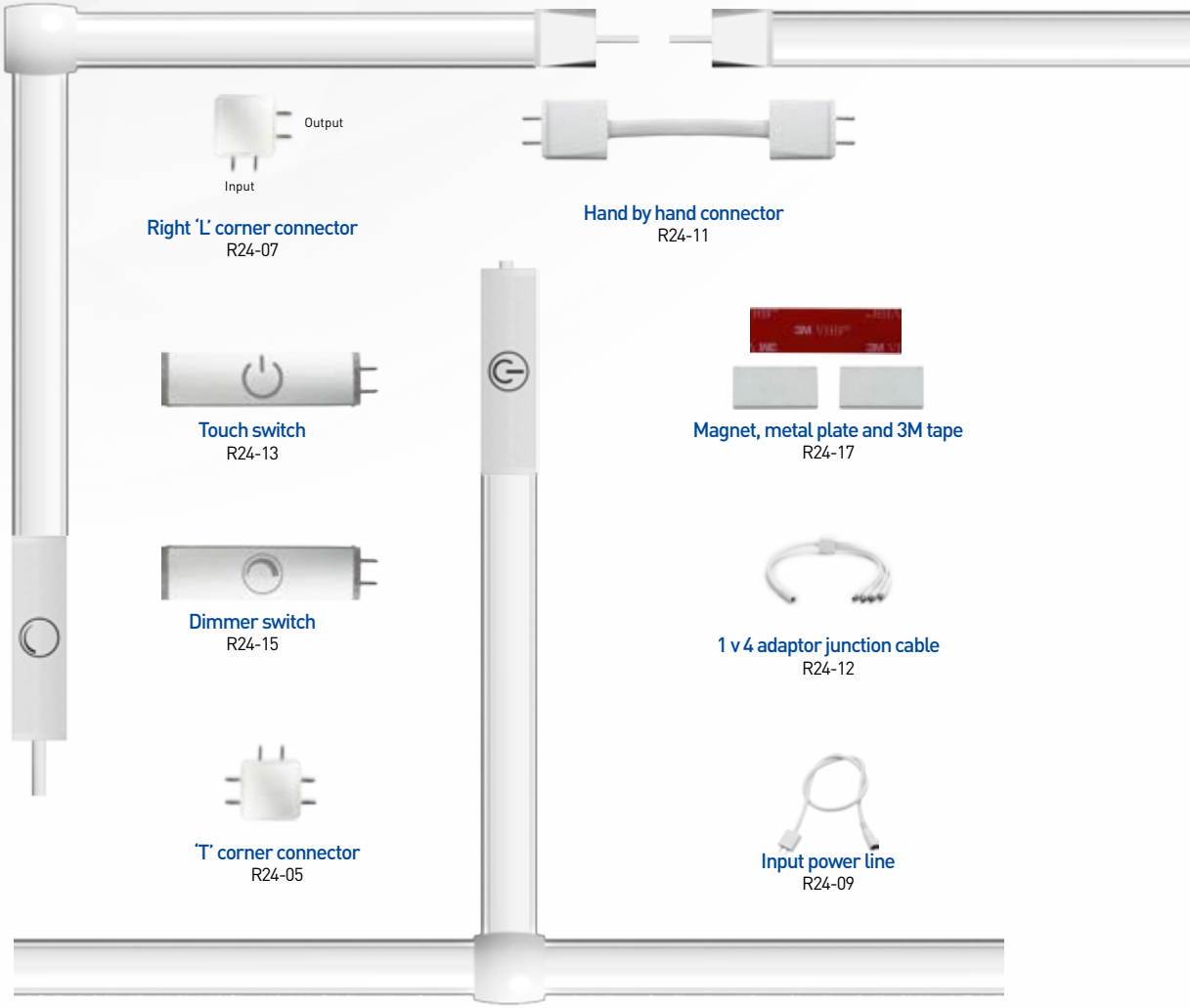
Accessories	
Order Code	Description
R24-01	Fixing clip with screws, for 90 degree installation
R24-02	Fixing clip with screws, for 180 degree installation
R24-03	Middle connector (this is standard and 1pcs with 1pcs Aeroline)
R24-04	Left 'L' corner connector
R24-05	T' corner connector
R24-06	+' corner connector
R24-07	Right 'L' corner connector
R24-08	Sold 'L' corner connector
R24-09	Input power line

Accessories	
Order Code	Description
R24-10	1m extension cable
R24-11	Hand by hand connector
R24-12	1 v 4 adaptor junction cable
R24-13	Touch switch
R24-14	Sensor switch
R24-15	Dimmer switch
R24-16	End cap
R24-17	Magnet, metal plate and 3M tape

Aeroline Ultra Flexi Light

Fixing clip with screws, for 90 degree installation
R24-01

Fixing clip with screws, for 180 degree installation
R24-02



Right 'L' corner connector
R24-07

Hand by hand connector
R24-11

Touch switch
R24-13

Magnet, metal plate and 3M tape
R24-17

Dimmer switch
R24-15

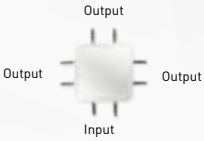
1 v 4 adaptor junction cable
R24-12

'T' corner connector
R24-05

Input power line
R24-09

Accessories

Left 'L' corner connector
R24-04



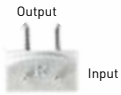
'+' corner connector
R24-06

Middle connector
R24-03

End cap
R24-16

1m extension cable
R24-10

Sensor switch
R24-14



Sold 'L' corner connector
R24-08

Industrial Lighting

RICOMAN offers a series of efficient Low Bay, High Bay and Anti-Corrosive luminaires for a variety of industry applications. Substantial energy saving and minimal maintenance is achievable with all our industrial lighting products. The IP and IK rating make RICOMAN industrial luminaires suitable for almost any industrial environment including warehouses, factories, recycling centres and car parks.

Canopus Multi-Purpose Fitting

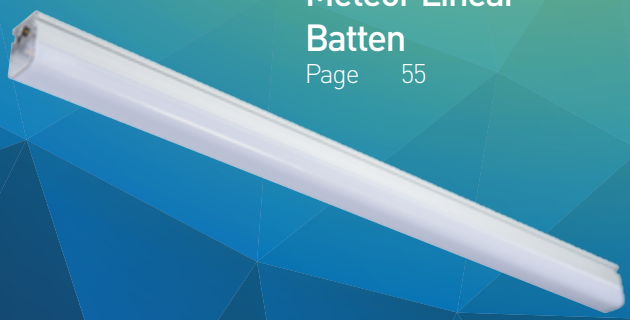
Page 52

Trident Anti-Corrosive Fitting

Page 54

Jupiter High Bay

Page 53



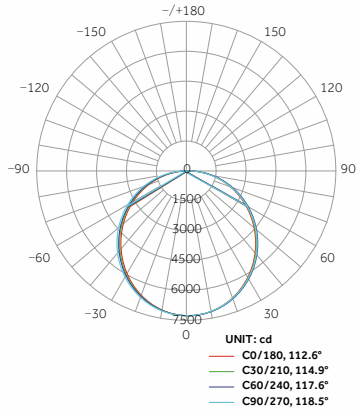
Meteor Linear Batten

Page 55

Canopus Multi-Purpose Fitting

Adjustable beam angle

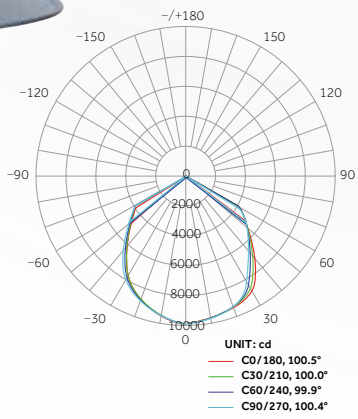
- Robust design and ultra efficient LED modules provide outstanding performance
- IP65 rated
- Adjustable beam angle
- Low glare diffusers
- Applications: car parks, warehouses, factories, exhibition centres, workshops



AVERAGE BEAM ANGLE (50%): 115.9 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	IP Rating	IK Rating	Dimension (mm)	Unit Net Weight	Voltage (V)
R123101	100	11000	5000	70	120 -180	65	09	H168 X L267 X W186	5.43 KG	AC90-260V
R123102	150	16500	5000	70	120 -180	65	09	H168 X L267 X W274	6.7 KG	AC90-260V
R123103	200	22000	5000	70	120 -180	65	09	H168 X L267 X W362	7.91 KG	AC90-260V

Jupiter High Bay



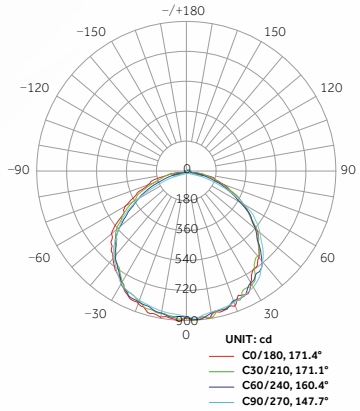
AVERAGE BEAM ANGLE (50%): 100.2 DEG

- IP65 rated
- Different options of wattages and beam angles available
- Acrylic shade option available
- Applications: warehouses, exhibition centres, industrial workshops, large retail areas

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	IP Rating	Dimension (mm)	Unit Net Weight	Voltage (V)
R131602/60	100	11000	6000	70	60	65	Ø420 X H485	6.52 KG	AC90-260V
R131602/120	100	11000	6000	70	120	65	Ø490 X H370	6.48 KG	AC90-260V
R131202/60	150	16500	6000	70	60	65	Ø420 x H485	6.52 KG	AC90-260V
R131202/120	150	16500	6000	70	120	65	Ø490 x H370	6.48 KG	AC90-260V
R131402/60	200	22000	6000	70	60	65	Ø420 x H652	8.32 KG	AC90-260V
R131402/120	200	22000	6000	70	120	65	Ø490 x H537	7.88 KG	AC90-260V

Trident Anti-Corrosive Fitting

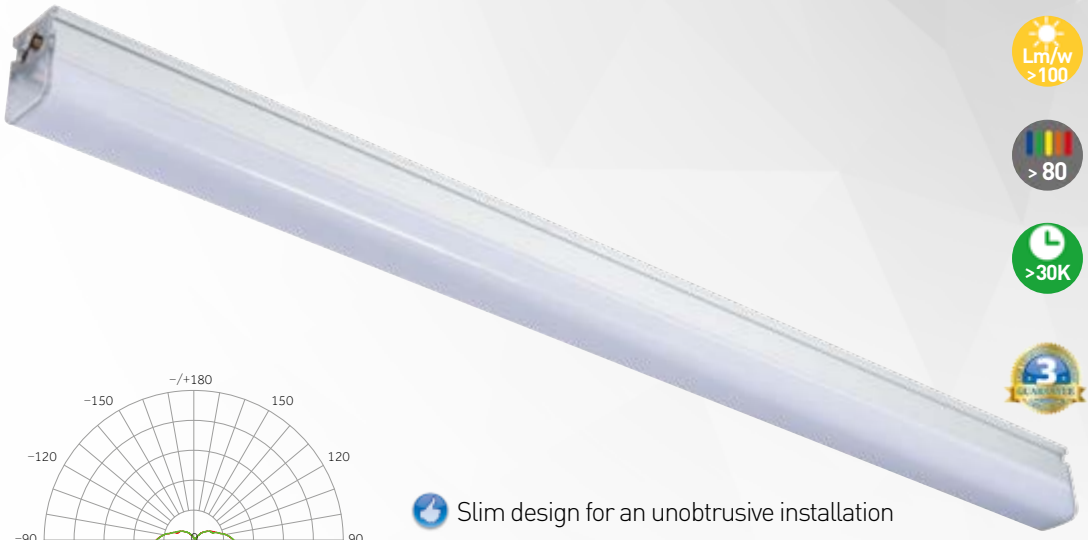
- Fluorescent impact resistant replacement
- IP65 rated and IK09 impact resistant
- Integral emergency options available
- Supplied with "Secure mounting clips"
- Applications: multi-storey car parks, warehouses, factories, garden centres

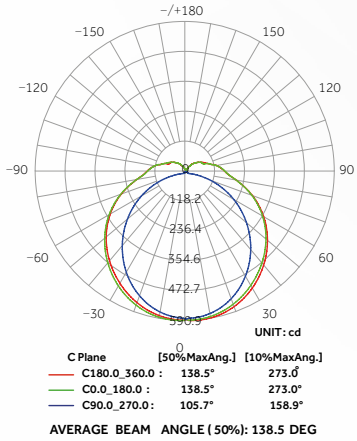


AVERAGE BEAM ANGLE (10%): 162.7 DEG

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	IP Rating	IK Rating	Dimension (mm)	Unit Net Weight	Voltage (V)
R151301	30	3000	5000	80	180	65	09	H74 X L600 X W91	1.6 KG	AC90-260V
R151301/E	30	3000	5000	80	180	65	09	H74 X L600 X W91	2.55 KG	AC90-260V
R151201	40	4000	5000	80	180	65	09	H74 x L1200 x W91	2.6 KG	AC90-260V
R151201/E	40	4000	5000	80	180	65	09	H74 x L1200 x W91	3.6 KG	AC90-260V
R151101	50	5000	5000	80	180	65	09	H74 x L1500 x W91	3.3 KG	AC90-260V
R151101/E	50	5000	5000	80	180	65	09	H74 x L1500 x W91	4.6 KG	AC90-260V

Meteor Linear Batten

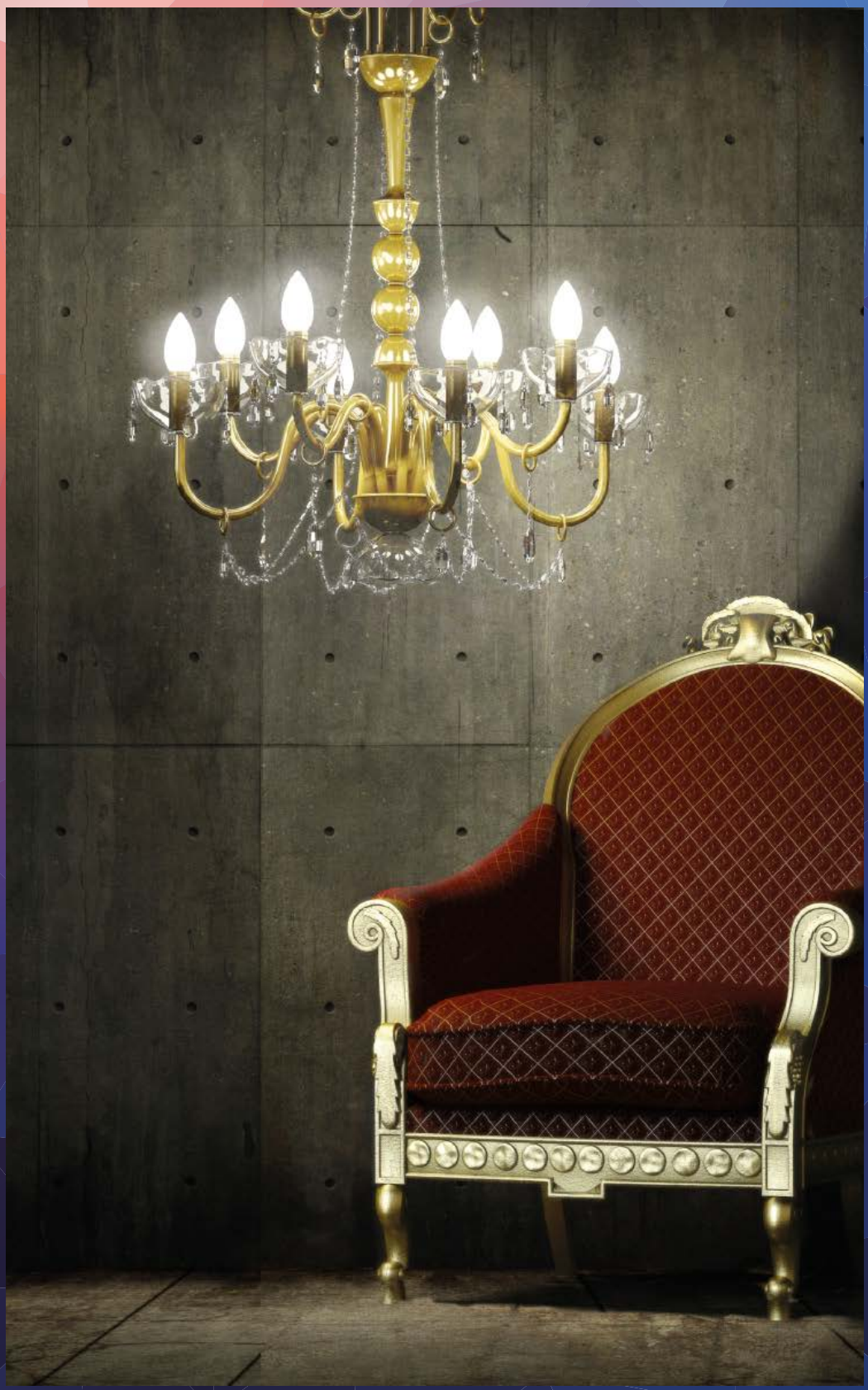




- Slim design for an unobtrusive installation
- Twin-batten option available
- Anti-glare reflector
- Available in 4 lengths and wattage options

Order Code	Watts (W)	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	IP Rating	Dimension (mm)	Voltage (V)
R191101	10	1000	4000	80	90	20	H39 X L600 X W27	AC90-245V
R191201	15	1500	4000	80	90	20	H39 X L900 X W27	AC90-245V
R191301	18	1800	4000	80	90	20	H39 x L1200 x W27	AC90-245V
R191401	24	2400	4000	80	90	20	H39 x L1500 x W27	AC90-245V

Accessories	
Order Code	Description
R19-01	1.2M Anti-Glare Reflector (1 pair)
R19-02	1.5M Anti-Glare Reflector (1 pair)



Lamps

Our latest energy saving LED lamp range offers up to 90% power saving over conventional lamp technologies. Dimmable and non-dimming options, a choice of colour temperatures, a CRI >80 and beam angles from 40° to 200° make these lamps suitable for almost every application, commercial or domestic.

Elite GU10

Page 58

G1 Golf Ball

Page 60

G1 Candle Light

Page 59

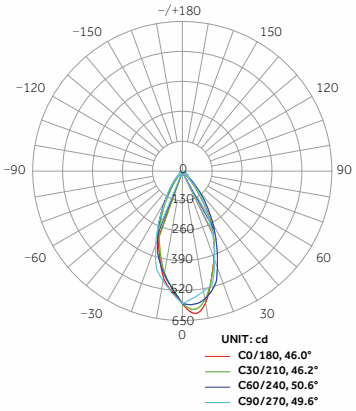
G2 Golf Ball

Page 61

Elite GU10

50W
EQUIVALENT

- 50W equivalent
- Dimmable and non-dimmable option
- 2 colour temperatures available
- Applications: domestic, offices, hotels, restaurants



AVERAGE BEAM ANGLE (50%): 48.1 DEG

Order Code	Watts (W)	Base	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	Dimension (mm)	Voltage (V)
R021501/R021502	6	GU10	480	3000/4000	82	40	No	Ø50 x H56	AC220-240V
R021503/R021504	6	GU10	482	3000/4000	82	40	Yes	Ø50 x H56	AC220-240V

G1 Candle Light

> 80

>30K

2 GUARANTEE

40W
EQUIVALENT

- 40W equivalent
- 2 colour temperatures available
- Applications: compact fluorescent replacement for offices, hotels and domestic use

Order Code	Watts (W)	Base	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	Dimension (mm)	Voltage (V)
R031201/R031202	5	E14	400	3000/4000	80	200	No	Ø37 x H101	AC220-240V

G1 Golf Ball

> 80

>30K

40W
EQUIVALENT

- 40W equivalent
- 2 colour temperatures available
- E14 and E27 lamp base
- Applications: domestic, offices, hotels, restaurants

Order Code	Watts (W)	Base	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	Dimension (mm)	Voltage (V)
R041101/R041102	5	E14	400	3000/4000	80	200	No	Ø45 x H76	AC220-240V
R041103/R041104	5	E27	400	3000/4000	80	200	No	Ø45 x H71	AC220-240V

G2 Golf Ball

> 80

>30K

2 YEAR GUARANTEE

60W
EQUIVALENT

- 60W equivalent
- 2 colour temperatures available
- Applications: domestic, offices, hotels, restaurants

Order Code	Watts (W)	Base	Lumen (±5%)	Colour Temp (K)	CRI (Ra)	Beam Angle	Dim	Dimension (mm)	Voltage (V)
R041201/R041202	9	E27	400	3000/4000	80	200	No	Ø60 x H110	AC220-240V

RECOMAN
Emergency Module
RoHS

Emergency

RICOMAN offers integrated emergency pack options for all the commercial downlight and panel ranges. Where stand-alone emergency lighting is required, the self-test Vanguard Emergency Downlight is offered as a competitive option.

RICOMAN Universal Emergency Pack

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Vanguard Emergency Downlight

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RICOMAN Universal Emergency Pack

- Ni-CD battery
- Emergency duration of 3 hours
- DC 18-60 compatible

Order Code	Watts (W)	Type	Self-Test	Emergency Voltage (V)	Emergency Duration (Hrs)	Battery Type	Dimension (mm)
R10-03E	3.6	Maintained	No	DC 18-60	3	Ni-CD	H35 x L350x W50

Vanguard Emergency Downlight

- Stand-alone high level LED
- Open area and corridor optic options
- Constant 3 hour output from mains failure
- Self-test

Order Code	Watts (W)	Type	Self-Test	Lumen (±5%)	Colour Temp (K)	Beam Angle	IP Rating	Hole Size (mm)	Dimension (mm)
R221101/ST	5	Non-Maintained	Yes	330	6000	108	20	Ø72	Ø85 x H57

Technical Glossary

Beam angle: Somewhat misleading angle of light spread, to which the intensity has fallen of to 50% of the peak value.

Candela (CD): The SI unit of luminous intensity. The intensity of a light source in a specific direction.

CE: European Community conformity mark. This denotes that the item conforms with the requirements of relevant EU Directives.

CIBSE: Chartered Institute of Building Service Engineers. The Society of Light and Lighting, a division of CIBSE, publishes many Lighting Guides, widely used as references for the choice of luminaire and recommended illuminance level most suitable for a specific area www.cibse.org.

Colour appearance: The impression provided when looking at a light source e.g. warm or cool.

Colour rendering: The appearance of surface colours when illuminated by light from a given source. Good colour rendering implies similarity of appearance to that under an acceptable light source, e.g. natural daylight.

CRI (Colour Rendering Index): Measurement of the degree to which the colours of surfaces illuminated by a given light source conform to the same surfaces under a reference source. CRI is expressed as a number where 100 means that there is no colour shift as under natural light. Typically High Pressure Sodium Lamps would be aprox. Ra=25, Metal Halide Lamps Ra=65, Triphosphor Fluorescent Lamps Ra=80+.

Colour Temperature: It is measured in Degrees Kelvin (the lower the degree, the warmer the colour temperature).

Colour Appearance	
	6,000
Summer Sunlight (Northern Hemisphere)	5,500
	5,000
	4,500
	4,000
	3,500
	3,000
	2,500
Candle	2,000
	1,500

Cool White

Natural

Warm White

DALI: Digital Addressable Lighting Interface. A dimming system employing DALI protocol-based technology (i.e. digital control signals) to control electronic ballasts controllers and sensors belonging to the system. Each system component has its own device-specific address, and this makes it possible to implement individual device control. The DALI system offers 64 individual addresses, 16 group addresses, and the ability to program each ballast with up to 16 scenes.

Dimming: The process by which lamps are dimmed from a 100% to a minimum level that is not always zero.

Efficacy (Lm/W): A metric term used to compare light output to energy consumption. Efficacy is measured in lumens per watt. For example, a 100 watt source producing 1800 lumens gives 18 lumens per watt. Efficacy is similar to efficiency but it is expressed in dissimilar units.

Efficiency: Ratio of power supplied to wattage dissipated.

EMC: Electromagnetic Compatibility. Many Electrical items produce unintentional interference, EMC ensures these levels are within guidelines and should therefore not cause unwanted interference with other equipment.

Emergency lighting: Lighting provided when the main lighting installation fails enabling safe exit from a building.

ErP: Regulations that establish ecodesign requirements for introducing fluorescent lamps without integrated ballast (LFL and CFLni lamps), high intensity discharge (HID) lamps as well as ballasts and luminaires able to operate such lamps.

Flicker: A visible oscillation in the luminous flux/light output.

Glare: Refers to the difficulty seeing in the presence of bright light such as direct or reflected sunlight or artificial light. Due to this, some luminaires include diffusers or reflectors to provide an anti-glare function.

IK Rating: Indicates the protection against mechanical impact. The application of an IK rating to a luminaire is considered to be a performance issue and is not directly related to the safety provisions of IEC 60598 standards covering luminaire safety. The following table presents the application of the IK code as specified on the International Electrotechnical Commission (IEC) Technical Report - Edition 1.0 2011-04.

IK Rating	Degree of protection
IK00	No protection
IK01	Protected against 0.14 joules impact. Equivalent to impact of 0.25 kg mass dropped from 56 mm above impacted surface.
IK02	Protected against 0.2 joules impact. Equivalent to impact of 0.25 kg mass dropped from 80 mm above impacted surface.
IK03	Protected against 0.35 joules impact. Equivalent to impact of 0.25 kg mass dropped from 140 mm above impacted surface.
IK04	Protected against 0.5 joules impact. Equivalent to impact of 0.25 kg mass dropped from 200 mm above impacted surface.
IK05	Protected against 0.7 joules impact. Equivalent to impact of 0.25 kg mass dropped from 280 mm above impacted surface.

IK Rating	Degree of protection
IK06	Protected against 1 joules impact. Equivalent to impact of 0.25 kg mass dropped from 400 mm above impacted surface.
IK07	Protected against 2 joules impact. Equivalent to impact of 0.5 kg mass dropped from 400 mm above impacted surface.
IK08	Protected against 5 joules impact. Equivalent to impact of 1.7 kg mass dropped from 300 mm above impacted surface.
IK09	Protected against 10 joules impact. Equivalent to impact of 5 kg mass dropped from 200 mm above impacted surface.
IK10	Protected against 20 joules impact. Equivalent to impact of 5 kg mass dropped from 400 mm above impacted surface.

Illuminance: A photometric term that quantifies the light on a surface or plane. It is expressed in lumens per m2 (lux). This can be calculated or measured with a lightmeter.

IP Rating: Indicates the resistance offered by the fixture to the penetration of solids and liquids. This is a two digit number, the first digit indicating the degree of protection against the ingress of solids and the second against liquids. For example, IP 65 indicates total protection against dust and protection against low pressure jets of water.

First Digit	
0	No protection
1	Protection against solid objects greater than 50 mm (e.g. accidental contact with the hand)
2	Protection against solid objects greater than 12 mm (e.g. accidental contact with finger)
3	Protection against solid objects greater than 2.5 mm (e.g. tools and wires)
4	Protection against solid objects greater than 1 mm (e.g. fine tools and wires)
5	Protection against dust
6	Total protection from dust
7	
8	

Second Digit	
0	No protection
1	Protection against vertical water drops (e.g. condensation)
2	Protection against direct sprays of water, up to 15^0 from vertical
3	Protection against direct sprays of water, up to 60^0 from vertical
4	Protection against water spray from all directions
5	Protection against low pressure jets of water from all directions
6	Protection against jets of water of similar force to heavy seas
7	Protection against immersion between 15-100 cm
8	Protection against submersion

LED: Light Emitting Diode. Ultra is a semiconductor device that emits visible light when an electric current passes through it. The light is not particularly bright, but in most LEDs it is monochromatic, occurring at a single wavelength. The output from an LED can range from red (at a wavelength of approximately 700 nanometres) to blue-violet (about 400 nanometres). Some LEDs emit infrared (IR) energy (830 nanometres or longer); such a device is known as an infrared-emitting diode (IRED).

LED Driver: A device that manages power and controls the current flow for an LED lighting product.

LED Life: Figures published refer to the L50, L70 or L75 classification system where the number relates to percentage of light output. So, a 30,000hr L70 LED would be expected to have 70% of its rated output at 30,000 hrs. LEDs are subject to very small operating temperature parameters and figures quoted are typically at 25c. Building a LED into a luminaire can result in the operating temperature being outside the design parameters and the life being adversely affected.

Lighting Design: RICOMAN offers a lighting design service provided by a team of experienced and industry qualified staff.

Lumen: Standard unit of luminous flux. Describes the quantity of light emitted by a light source or received by a surface.

Lux: The metric unit of measure for illuminance of a surface. One lux is equal to one lumen per metre-squared.

Microwave Sensor: Sophisticated presence detector that uses low power Microwave signals which are then reflected by moving persons and measured through the "Doppler effect" method.

Relux: RICOMAN uses Relux as the standard lighting design package and visual presentation tool.

RoHS Compliant: Restriction of Hazardous Substances (2002/95/EC) is an article

95 directive, meaning it is consistent across all European Union member states. Since July 1st 2006 the use of hazardous substances is restricted in products, to prevent damage to the environment. The prohibited substances are Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated Biphenyls and Polybrominated Diphenyl Ethers.

Self-Test Emergency: The Self-Test circuit utilises an accurate internal clock which is programmed to interrupt the permanent mains supply at set intervals thus initiating emergency lighting tests. The Self-Test units are supplied pre-programmed to initiate short duration tests once every month, a one third duration test after six months and a full duration test once every 12 months (as recommended in BS5266 and EN50172).

TüV: German certifying body involved with product safety for the European community.

Voltage: The electric potential existing between two components in an electrical circuit. Lamps are rated in terms of wattage at a specific voltage. Operating a lamp at another voltage from that which I rated may cause the lamp to burn at less than full intensity or to burn out very quickly.

Watt: The unit for measuring electrical power. It defines the rate of energy consumption by an electrical device when it is in operation.

WEEE: Compliance with the Waste Electrical and Electronic Equipment Directive. This covers the collection, treatment and recycling of equipment at end of life.

Why LED Lighting?

- **Long life span:** up to 50,000 hours
- **Energy saving:** up to 90% more efficient than conventional light sources
- **Minimum maintenance:** no more regular replacements
- **No flicker:** more comfortable to the eye
- **Mercury free:** environmentally friendly

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