ROBUS°



CONTENTS



PRODUCT OVERVIEW



Page 24



Page 28



Page 30



Page 32



Page 37



Page 56



Page 58



Page 70



Page 74



Page 80



Page 82



Page 88

VULCAN CORROSION PROOF



SULTAN CORROSION PROOF



Page104

HARBOUR CORROSION PROOF

Page 112

LAZER LED VAPOUR PROOF



Page 120

CHAMPION FLOOD LIGHT



Page 122

SONIC HIGHBAY



Page 124

PRISMOID LINEAR HI-RACK



Page 128

KINGSTON LOWBAY



Page 132

FALCON LED



Page 134

TRIUMPH ACTIVATETM



Page 146

RAMADA



Page 154

ULTIMUM CCT3



Page 156

PRODUCT OVERVIEW



Page 168



Page 172



Page 174



Page 174



Page 188



Page 192



Page 198



Page 208



Page 210



Page 216



Page 219



Page 220



Page 222

LUNAR WALL LIGHT

Page 229



Page 230



Page 238



Page 240



Page 241



Page 258



Page 286





Page 294



Page 296



Page 298

PRODUCT OVERVIEW



Page 306



Page 307



Page 308



Page 316



Page 319



Page 320



Page 322



Page 332



Page 335



Page 336



Page 337



Page 339



Page 341



Page 346



Page 350



Page 352



Page 356



Page 360



Page 363

WELCOME TO ROBUS 2020

Welcome to the 2020 ROBUS Catalogue. With over 35 years **experience** in the lighting industry, the ROBUS brand is available from all leading wholesalers in Ireland and the UK. We are a global lighting company with a vision to make our brand ROBUS, **the most trusted LED lighting brand** in the countries in which we serve.



DEAR CUSTOMER.

AS WE ENTER INTO A NEW DECADE, WE DO SO WITH GREAT ANTICIPATION AND EXCITEMENT. HAVING EXPANDED OUR GEOGRAPHY'S QUITE DRAMATICALLY IN THE PAST TEN YEARS, AUSTRALIA, NZ, SOUTH AFRICA, FRANCE, BELGIUM, HOLLAND, PORTUGAL AND EVEN MAURITIUS (THERE IS A BIG QUEUE OF PEOPLE LOOKING TO LOOK AFTER THIS TERRITORY!), AND WE LOOK FORWARD TO THE NEXT TEN.

However, despite this global expansion we still remain hugely committed to our two key markets, Ireland and the UK. Whilst a huge amount has changed in our industry since we started our journey in 1984, over 35 years ago, some things have remained constant in our business.

We only supply through the Electrical Wholesale channel.

Our promise to you our customer is,

- To be easy to deal with
- To supply high quality, reliable lighting products
- Deliver market led product innovation
- To prioritise your profit retention

Our vision is for ROBUS to become our customers most trusted LED Lighting brand.

Our Values

- Accountability, we always do what we say we will do
- · Fast Pace, we make decisions quickly
- Ambitious, we are always looking to aggressively grow our business and attract ambitious people
- Customer focus, our customers are the reason we exist
- Empowerment, we give people autonomy to do their job effectively

2019 was an extremely exciting year in terms of New Product launches with our VEGAS Cutting Stations being particularly successful.

2020 will be even more exciting as we move into much more technologically driven products including ROBUS CONNECT and Human Centric Lighting.

We are very proud of the fact that we have never lost a customer that we did not want to lose!

Finally, many thanks to all of our customers some of you who have been with us since the very start.

MICHAEL SLEIN

Founder and Director

T: +353 1 709 9000

M: +353 86 256 6430

E: mslein@robus.com



THE LED GROUP
IS A GROWING
INTERNATIONAL
LIGHTING COMPANY
ESTABLISHED

WE ARE THE LARGEST IRISH LIGHTING COMPANY IN THE WORLD WITH A LONG AND PROUD TRADITION OF COMMERCIAL SUCCESS AND RELATIONSHIPS ACROSS IRELAND, THE UK, EUROPE, UAE AND AUSTRALASIA.

IN 1984.

The LED Group has developed the globally successful ROBUS brand of products sold through the electrical wholesale market. ROBUS has a reputation for energy efficient commercial and residential solutions, supported by world class customer service in more than 40 countries around the world.

Located in Dublin is our 10,000sqm head office and distribution centre. We also have distribution and offices in the UK, Australia, China, France, Benelux, South Africa, New Zealand and the Middle East, servicing over 3,000 stockists and tens of thousands of installers. We employ more than 250 talented people around the world, working with us to grow our business and nurture the ROBUS brand. Our global presence enables us to meet the current and future needs of our customers and the aspirations of our people.

The LED Group is a member of the EMDA in Ireland, the EDA, The Lighting Association and LIA in the UK and The Lighting Council in Australia – lighting bodies worldwide creating and promoting industry standards.

HQ Dublin, Ireland
UK
France
Benelux
South Africa
China
Australia
Middle East
New Zealand



LED GROUP HISTORY TIMELINE

1990

PARTNER BUY OUT

Michael saw the potential in sourcing products from Asia and become the first Irish company to import lighting products from there. He bought out his partners shares and renamed the business Lighting and Electrical Distribution - hence the origin of the LED Group.

ISO CERTIFIED LED

Group first received ISO Certification - A Quality Management System that is internationally recognised as the world's leading quality management standard.

1984

LED GROUP FOUNDED BY MICHAEL SLEIN, WITH 2 PARTNERS

The company was established in 1984 by Michael Slein with two school friends as a joint business venture. Together they expanded the product lines over the following 6 years.



1996

ROBUS SALES UK

LED Group take exciting first steps into the UK, with a sales team of directly employed personnel who start to change the face of the business from local to global.

2011

STOCKISTS ONLINE ORDERING

ROBUS provide a tailored stockist online ordering system www.robusdirect.com, allowing wholesalers to order direct - as in the order they place online travels directly to the picking guns in our warehouse for rapid service. 2013

VISITOR CENTRE

Dublin HQ opens our first state of the art visitor centre, with products on display & a meeting venue for customers & customer's customers. Our house is your house!

2010

ROBUS AUSTRALASIA

ROBUS goes down under to open the first Australian office in Brisbane, Queensland. A sales team including established sales personnel from Ireland and the UK start calling on the trade in Australia.

2012

ROBUS SALES NEW ZEALAND

Sales team established in New Zealand.





BEST COMPANY TO WORK FOR IN IRFL AND AWARD

LED Group was recognised as one of the top 50 companies to work for in Ireland. Listed workplaces are selected and ranked by Great Place to Work primarily on the basis of the confidential input from the employees of that organisation.

2009

ROBUS SALES MIDDLE EAST

Derek Slein, Exports Director and brother of Michael Slein travelled to the UAE to create further opportunities and relationships which proved highly successful.

2005

MOVED TO CURRENT HQ IN DUBLIN, IE

Due to rapid expansion LED Group moved to a 100,000 sq. feet premises on the Nangor Road in Dublin 12. Today this HQ welcomes over 50 customer visits per annum.

2008

ROBUS SALES BENELUX

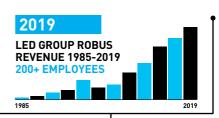
LED Group establish a directly employed sales team and first orders in Belgium and the Netherlands.



2015

DELOITTE BEST MANAGED COMPANIES AWARD

LED Group receives the prestigious Deloitte Best Managed Company. The award recognises indigenous Irish companies operating at the highest levels of business performance.



2014

ROBUS SALES FRANCE, BALTICS & SCANDINAVIA

The **ROBUS** brand begins to appear on the shelves of stockists across France, Baltics and Scandinavia and the exports team grows steadily.











2016

SYDNEY & PERTH DISTRIBUTION CENTRES OPENED

Due to rapid growth in Australia, **ROBUS** opens distribution centres in Sydney and Perth, improving service levels across these states.



UK DISTRIBUTION CENTRE

Distribution hub introduced to upgrade service levels across the UK.





INTRODUCTION	18
HOW IT WORKS	19
THE BENEFITS	20
CLOUD CONNECTION	22
USING THE APP	23
VEGAS CONNECT	24
PULSE CONNECT	26
ULTIMUM CONNECT	28
GLS CONNECT	30
GU10 CONNECT	32
FILAMENT CONNECT	36
RX CONNECT	37
PLUG CONNECT	39
DOOR SENSOR CONNECT	40
PIR CONNECT	41
CAMERA CONNECT	42
CAMERA CONNECT IP65	43
DOORBELL CONNECT	44

ROBUS CONNECT INTRODUCTION



SMART HOME SYSTEM

ROBUS CONNECT is a cloud based smart home system that transforms the way you interact with devices including lights, sensors, doorbells, cameras in your home or office. ROBUS CONNECT compatible products will work without the need for a hub.



ROBUS CONNECT **HOW IT WORKS**



1

Download the ROBUS CONNECT app from the Apple App Store or Google Play.

2

Put your ROBUS CONNECT device into pairing mode by turning it off and on 3 times in 10 seconds or follow device instructions.



3

Press "+" in the app and follow the step by step instructions in the App.

The ROBUS CONNECT cloud platform is certified for information storage, security and protection of personal data and GDPR compliant. **Your data is safe with us.**

THE BENEFITS



ON/OFF

Wouldn't it be so much cooler if you could turn your devices on and off using your smart phone? Well, with ROBUS CONNECT you can.



DIMMING

Control how bright your lights are at any time.



GROUPING

Use your ROBUS CONNECT devices individually or group them so they can be controlled together. By room or reason.



MULTI-USER

ROBUS CONNECT lets you give anyone you would like to control your devices as long as they have internet connection.



SCHEDULES

You can set timers for all the ROBUS CONNECT light fittings in your home. Set them to come on when you usually get back from work or to turn off when you leave in the morning.



COLOUR SELECT

Choose from a range of white colour temperatures and any other colour imaginable using your smartphone.



AUTOMATION

Create automations which make your ROBUS CONNECT devices respond to scenarios automatically. Set your lights to react to certain environmental conditions (temperature, humidity, sunrise etc.). Turn light fittings on in the hall when the Door Sensor opens' in the kitchen.



ENERGY SAVING

Controlling and/or scheduling your devices will ensure that none of them are left on when they don't need to be.

THE BENEFITS



SET THE SCENE

Set the scene you want in your home or room. You can customise your own scenes. Once you have a lighting sequence that you want to repeat in the future you can save it in the ROBUS CONNECT App as a Scene, e.g. 'Wake Up', 'Chill Time', 'Homework', 'Movie Night'.



SECURITY

The ROBUS CONNECT cameras and doorbell let you keep an eye on what's happening inside and outside of your home. Images are stored in the cloud so you can look back on any detected movement



MULTI-LOCATION

As long as you have an internet connection, you can have complete control of your light devices from anywhere in the world. Never worry whether you left a device on before you went on holiday.



MOTION SENSOR

Put a ROBUS CONNECT sensor on your doors sensor or PIR in your home to detect and respond to movement in your home. If the kids bedroom door opens during the night, turn the light fittings on in the hall and bathroom.



USE WITH THE CLOUD

You can link your ROBUS CONNECT devices with Google Home and Amazon Alexa to open your smart home lighting system for infinite possibilities.

Alexa, set kitchen to warm white



Alexa, set strip light to red













ROBUS CONNECT CLOUD CONNECTION







ALEXA & GOOGLE HOME

ROBUS CONNECT is compatible with Amazon Alexa and Google Assistant. Just search for Smart Life in your Alexa or Google Home companion App. This allows you to:



GROUP OTHER CLOUD-BASED DEVICES

If you own other Alexa or google assistant smart products you can use them alongside your ROBUS CONNECT devices.

VOICE CONTROL

"Hey Google, set my ROBUS downlights to warm white" or "Alexa, set my ROBUS Flexi-strip to red".



2.4GHZ WIFI

All ROBUS CONNECT devices require a 2.4GHz WIFI network to connect to. Please note that if you have a 5GHz router it will have a 2.4GHz band running as well.

To pair your devices you will need to make sure your phone is connected to the 2.4GHz network, The ROBUS CONNECT App will alert you if you are not.

Some routers have different network names for the 2.4GHz and 5Ghz networks making it easy to select the correct one. If your router doesn't have the networks separated then the easiest thing to do is log in to the router settings page and disable the 5GHz network during pairing. If this cannot be disabled there are some things to try:

- Move your phone further from the router so it loses 5GHz connectivity
- Use an older phone/tablet with 2.4GHz WIFI only to pair devices
- Pair devices to a mobile hotspot with the same network name and password as the WIFI network

USING THE APP



HOME

Navigate the App from your home screen.



ADJUST LIGHTS

Change light settings using a simple interface.



GROUP DEVICES

Control multiple devices from one screen.



SCENE

Set actions to happen at the touch of a button.



AUTOMATION

Set actions to happen automatically.



MULTI-USER

Add multiple users to your home.

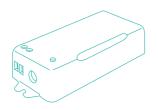
VEGAS CONNECT





VEGAS CONNECT 240W, IP20, SINGLE COLOUR, RGB & RGBW

This WIFI Controller works with a selection of ROBUS VEGAS LED Flexi-strip drivers and LED Flexi-strip and is available in Single Colour, Tunable White, RGB and RGBW. Once wired, simply attach the ROBUS VEGAS LED Flexi-strip to any surface you desire – under cabinets, window displays, kitchen islands etc. Set scenes using a variety of colour temperatures and a huge array of colour options.





DIMENSIONS (mm)	Length	Width	Height
RVACCT1-WIFI	99	39	21
RVACCT2-WIFI	85	45	23
RVARGB-WIFI	99	39	21
RVARGBW-WIFI	99	39	21





	RVACCT1-WIFI	RVACCT2-WIFI	RVARGB-WIFI	RVARGBW-WIFI
Total Power (W):	120/240	240	120/240	120/240
Lifetime (hrs):	30,000	30,000	30,000	30,000
Colour:	White	Tunable white	RGB	RGB + white
Weight (kg):	0.15	0.15	0.15	0.15
Box Qty:	1	1	1	1







Note: VEGAS dimmable drivers do not work with VEGAS CONNECT and PULSE CONNECT controllers







Tunable White



RGB



RGBW

PULSE CONNECT





PULSE CONNECT 96W WI-FI CONTROLLER IP20 SINGLE COLOUR AND RGB

This WIFI Single Colour or RGB Dimming Controller works with a selection of ROBUS PULSE LED Flexi-strip drivers and LED Flexi-strip. Once wired, simply attach the ROBUS PULSE LED Flexi-strip to any surface you desire – under cabinets, window displays, kitchen islands etc. Control multiple controllers at once using the ROBUS CONNECT App.

	R5MCCT1-WIFI	R5MRGB-WIFI
Total Power (W):	<1	<1
Lifetime (hrs):	30,000	50,000
Weight (kg):	0.02	0.02
Box Qty:	1	1

Length	Width	Height
204	23	10
204	23	10
	204	204 23















Single colour

RGB

PULSE CONNECT



PULSE CONNECT 5M IP20 LED STRIPKIT - CCT2 TUNABLE & RGBW (RGB+3000K)

Complete with 5M LED Flexi-strip, driver and WIFI controller, everything you need to get set up without buying any additional accessories. Available in Tunable White and RGBW, if you select the ROBUS RGBW PULSE LED Flexi-strip Kit, you'll be able to create a classic under cabinet glow, a disco in the kitchen and any scene in between.

	R5MSIK-CCT2	R5MSIK-RGBW
Total Power (W):	22.9	22.4
Total Light Output (lm):	1,360-1,580	690
Lifetime (hrs):	30,000	30,000
CCT (K):	2700-6500	RGB, White, 3000K
CRI (Ra):	70	80
Power Factor (PF):	0.7	0.7
Impacting Rating (IK):	20	20
Weight (kg):	0.5	0.5
Box Qty:	1	1

DIMENSIONS (mm)	Length	Width
R5MSIK-CCT2	5,000	10
R5MSIK-RGBW	5,000	10









Note: VEGAS dimmable drivers do not work with VEGAS CONNECT and PULSE CONNECT controllers





Tunable White

RGB

ULTIMUM CONNECT





ULTIMUM CONNECT 7W IP65 WIFI TUNABLE FIRE RATED DOWNLIGHT

IP65, Fire Rated Downlight that will make any living space look sleek and stylish at the touch of a button. The ROBUS ULTIMUM CONNECT 7W Downlight can be controlled via the ROBUS CONNECT App from anywhere in the world. You'll be able to set the colour temperature of each, a select few or all fittings from 2,700K to 6,500K depending on what atmosphere you want to create at any given time.

ACCESSORIES

RULTRIM-03	ULTIMUM Polished Chrome Plastic Trim
RULTRIM-10	ULTIMUM Matt Black Plastic Trim
RULTRIM-13	ULTIMUM Brushed Chrome Plastic Trim

	RUL070WIFI-01
Comparable to:	50W LV Halogen
Total Power (W):	7.1 – 7.5
Total Light Output (lm):	540 - 630
Efficacy (lm/cctW):	73 - 90
Lifetime (hrs):	30,000
Beam Angle (deg):	60
Lux at 1m (lux):	480 - 570
CCT (K):	2700 - 6500
CRI (Ra):	80
Power Factor (PF):	0.9
Weight (kg):	0.28
Box Qty:	1













SEAI Approved

DIMENSIONS (mm) Diameter Cut-out Depth proj

RUL070WIFI-01 72 60











GLS CONNECT



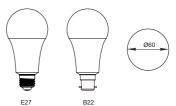


8W WIFI TUNABLE WHITE

Available in E27 and B22 cap types the ROBUS GLS CONNECT is where a lot of users will start to experience WIFI controllable lighting. These fit in to standard table lamps, floor lamps and ceiling pendants in any room in the house.

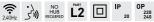
	Tunable white
E27	RCG8CXE27
B22	RCG8CXB22
Comparable to:	75W Incandescent
Total Power (W):	7.8-8.1
Total Light Output (lm):	740-820
Efficacy (lm/cctW):	95-103
Lifetime (hrs):	25,000
Beam Angle (deg):	180
Lux at 1m (lux):	110-120
CCT (K):	2700-6500
CRI (Ra):	80
Power Factor (PF):	0.5
Weight (kg):	0.07
Box Qty:	1

DIMENSIONS (mm)	Diameter	Height
RCG8CXE27	60	122
RCG8CXB22	60	122

















GLS CONNECT COMPATIBLE PRODUCTS

OUTDOOR

COMPATIBLE WITH E27





WHITESTAR

R60BHPC-01/04 R60BHPIR-01/04 Page 216

60W bulkhead with Photocell, IP44, 60W bulkhead with PIR, IP44,



BEACON

L20065 L200110

Page 236

60W aluminium bollard, IP44, 650mm 60W aluminium bollard, IP44, 1.1m

BATHROOM

COMPATIBLE WITH B22



GLOBE

R60SB R100SB Page 316 60W bathroom ceiling light, IP44, 100mm, 100W bathroom ceiling light, IP44, 100mm,

GU10 CONNECT



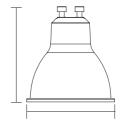


5W WIFI TUNABLE WHITE, RGB & TUNABLE WHITE LED LAMP

Retrofit the ROBUS GU10 CONNECT lamp into pre-existing downlights or gardenby voice control. Why use standard light fittings controllable only by wall switch when you have the option to control them with the ROBUS CONNECT App or by voice controlled using Amazon Alexa or Google Assistant.

	RCGU5CX	RCGU5RGBCX
Comparable to:	50W halogen	50W halogen
Total Power (W):	5.2/5.3	5
Total Light Output (lm):	430/480	390
Efficacy (lm/cctW):	83-93	80
Lifetime (hrs):	25,000	25,000
CCT (K):	2700-6500	2700-6500
CRI (Ra):	80	80
Power Factor (PF):	0.5	0.5
Weight (kg):	0.03	0.03
Box Qty:	1	1















GU10 CONNECT COMPATIBLE PRODUCTS

OUTDOOR



INIS

R5082TW-04/15 50W GU10 garden spike mounted fitting with adjustable tapered head, Black S082TW-04/15 50W GU10 garden wall mounted fitting with adjustable tapered head, Black





CORK

R5088S-04 50W GU10 garden spike c/w adjustable sloped head, IP65, Black
R5088S-15 50W GU10 garden spike c/w adjustable sloped head, IP65, Satin silver

Page 248



LEE

LS50GU-04 Page 247 50W mains voltage garden spike, IP65, Black

DOWNLIGHTS



STARLING

RSF201-01/03/13 50W mains voltage steel fire rated downlight, IP20, 85mm, RSF208-01/03/13 50W mains voltage steel fire rated downlight, IP20, 85mm, directional Page 143



ZAK

R201SCN-01/03/13 GU10 mains voltage DieCast AL downlight,max 50W,
R208SCN-01/03/13 GU10 mains voltage DieCast AL downlight,max 50W, directional

Page 183



RIDA

R201PS-01/03/13 50W GU10 pressed steel downlight, IP20, 60mm, White, dimmable R208PS-01/03/13 50W GU10 pressed steel downlight, IP20, 60mm, White, dimmable, directional Page 181



SALLY

RS201E-01/03/13 50W GU10 mains voltage die cast D/L, IP20, 65mm, dimmable RS208E-01/03/13 50W GU10 mains voltage die cast D/L, IP20, 75mm, dimmable Page 182

ROBUS CONNECT

GU10 CONNECT COMPATIBLE PRODUCTS

BATHROOM



ROBIN

RS10165GZ-01/03/13 $\,$ SHOWER 50W mains voltage GU10 downlight, IP65, 83mm Page 318 $\,$



STARLING

RSF20165-01/03/13 50W mains voltage steel fire rated shower downlight, IP65, 91mm, Page 319

TRACKS & PROJECTORS



PETITE

RS806GZ-01/13 RS806GZ3-01/13 Page 300 50W track spotlight, IP20, 150W track kit, IP20, 1m,



ACORN

R888GZ-01/13 R888GZ3-01/13 Page 292 50W track spotlight, IP20, 50W track kit, IP20, 1m,

ACCESSORIES



LAMP HOLDERS

SCGZ1050 GZ1050 lamp holder c/w 250mm leads Page 372

ROBUS CONNECT FILAMENT CONNECT





FILAMENT CONNECT, DIMMABLE

The ROBUS FILAMENT CONNECT range gives a stylish, antique aesthetic with the full smart capabilities of ROBUS CONNECT. Available is 2000K these lamps will add warmth and character to any environment. Available in cap type B15, E14, B22 and E27.

	Candle	GLS
	RCFC522B15	RCFG722B22
	RCFC522E14	RCFG722E27
Total Power (W):	5.2	7.6
Total Light Output (lm):	360	610
CCT (K):	2200	2200
Lifetime (hrs):	20,000	20,000
Power Factor (PF):	0.55	0.6
CRI (Ra):	80	80
Weight (kg):	0.02	0.04
Box Qty:	1	1



DIMENSIONS (mm)	Width	Height
RCFC522B15	35	111
RCFC522E14	35	111
RCFG722B22	60	104
RCFG722E27	60	104

ROBUS CONNECT RX200D CONNECT





RX150D CONNECT DIMMER

Transform existing dimmable light fittings to WIFI controllable by wiring the ROBUS RCRX200D CONNECT Dimmer to up to 200W of them. If you recently replaced the light fittings in your home and would prefer not to replace all with WIFI Controllable fittings this is the perfect alternative option.

	RCRX200D
Dimmer type	Trailing Edge
LED Load	min 5W max 150W
Connector	Push Terminal
Weight (kg):	0.07
Box Qty:	1

DIMENSIONS (mm)	Length	Width	Height
RCRX150D	120	68	25























ROBUS CONNECT PLUG CONNECT



Smart WIFI 2.4GHZ

PLUG CONNECT

Use the ROBUS PLUG CONNECT to make home appliances WIFI Controllable. We have all experienced that fear that we forgot to turn something off when we left the house, whether that's a hair straightener, iron, radio etc. Using a ROBUS PLUG CONNECT on these devices will ensure that on the rare occasion you have left something on, you have the power to turn them off in the app at any time. Set the app to turn the plug off after a certain period or after certain power usage.

RCP13UK-01 PLUG CONNECT, with Power Metering, 13A, UK, White





ROBUS CONNECT DOOR SENSOR CONNECT





Smart WIFI 2.4GHZ

DOOR SENSOR CONNECT

Through the ROBUS CONNECT App, the ROBUS DOOR SENSOR CONNECT will alert you when your door or window opens. Use the sensor as a trigger for other actions to occur through the ROBUS CONNECT App. For example if the kids' bedroom door opens, turn lights on in the hall so they can make their way to the bathroom and back. If the window opens, send a notification to let me know. All you need is 1 X CR123A Battery or micro-USB power and it's good to go.

RCDS-01 DOOR SENSOR CONNECT, WIFI, IP20, White





ROBUS CONNECT PIR CONNECT





Smart WIFI 2.4GHZ

PIR CONNEC

Introduce the ROBUS PIR CONNECT to further extend the interactivity of the devices in your home by using it as a trigger for other actions to occur. A ROBUS PIR CONNECT detects motion in any given area and can be used in the same way as a door sensor. All it needs is 2 X CR123A Batteries or micro-USB power. If no motion is detected in the home for 20 minutes, turn off all light fittings. If motion is detected on the stairs turn on lights on the landing. If motion is detected in the front porch turn the light fittings on in the driveway.

RCPIR-01 PIR CONNECT, WIFI, IP20, White





ROBUS CONNECT CAMERA CONNECT











2 way Audio

Motion Sensor

Smart WIFI

Cloud Storage

CAMERA CONNECT

This sleek and stylish, white and black, free standing indoor camera is designed to sit on any flat surface you desire. Sit this on your office desk, bookcase etc to give yourself peace of mind that you will be aware of anything happening in your home. The camera pans and tilts giving you full view of the surrounding area. Use the ROBUS CONNECT App to view the area from any location. With its 2-way audio you will be able to hear and speak through the ROBUS CONNECT App.

RCCI1080-01 CAMERA CONNECT, 4.5W, Indoor, 1080p, 2-way audio, IP20, White





ROBUS CONNECT CAMERA CONNECT IP65





2 way Audio



Motion Sensor







Cloud Storage Day

Day/Night mode

CAMERA CONNECT

Add another layer of safety to your home with the ROBUS CAMERA CONNECT IP65. The IP65 rated and inverted outdoor camera has a built in SD Card to enable recording of video. It can take and store pictures when it detects motion in the surrounding area ensuring you have evidence of any unexpected activity outside your home.

RCC01080-01 CAMERA CONNECT, 5.5W, Outdoor, 1080p, 2-way audio, IP65, White





ROBUS CONNECT DOORBELL CONNECT & CHIME











2 way Audio

Motion Sensor

Smart WIFI

DOORBELL CONNECT

That's right you can also choose a doorbell that does more than just ring. The ROBUS DOORBELL CONNECT not only lets you know someone is at the door, it allows you to view who that is through the ROBUS CONNECT App before you answer it. The ROBUS DOORBELL CONNECT is IP44 rated and has a built-in camera with 2-way audio. It will also work alongside all of your other cloud connected devices.

CHIME

This works alongside the ROBUS DOORBELL CONNECT. With the ROBUS CONNECT CHIME plugged into any USB power source you will know when someone's at the door without needing your phone.

RCD1080-04 DOORBELL CONNECT, WIFI, with 1080p camera, IP54, Black

RCCHIME-01 CHIME, for use with Doorbell Connect, White





ROBUS HUMANITAS

INTRODUCTION	48
HUMAN CIRCADIAN RHYTHM	50
HUMAN CENTRIC LIGHTING	51
FEATURES	52
HUMANITAS APP	54
MODUM HUMANITAS	56
SPACE HUMANITAS	58
SCHOLAR HUMANITAS	60
OWL HUMANITAS	61

ROBUS HUMANITAS INTRODUCTION



ROBUS HUMANITAS HUMAN
CENTRIC LIGHTING (HCL) IS A
LIGHTING CONCEPT THAT TAKES
INTO CONSIDERATION HOW
LIGHTING AFFECTS OCCUPANT
WELLBEING, PRODUCTIVITY
AND COMFORT IN THE BUILT
ENVIRONMENT.



ROBUS HUMANITAS INTRODUCTION



WHY IS HUMAN CENTRIC LIGHTING IMPORTANT?

PRIOR TO THE INVENTION OF ARTIFICIAL LIGHT, THE ONLY SOURCE OF NATURAL LIGHT WAS THE SUNLIGHT AND MOONLIGHT. OUR HUMAN BIOLOGY HAS EVOLVED IN RESPONSE TO THE DAY AND NIGHT LIGHTING CYCLE (AS WE FIND OUT VERY QUICKLY IF WE JET OFF TO A DIFFERENT TIME ZONE!).

There are two aspects to the sunlight cycle.

- 1. The light flux varies the illuminance through the day and disappears at night.
- 2. The blue-cyan content of the daylight also varies with time through the day. This type of light is called "melanopic light", because of the way in which it is detected by a pigment called "melanopsin" in the non-visual sensors in the eye, which signal to the brain and produce effects in the body which have nothing to do with our vision, but are central to our human biology.

The melanopic light content is low at dawn and dusk, because blue/cyan light is scattered out of the beam as the sunlight glances off the earth's atmosphere. As the sun rises further, the path length through the atmosphere shortens, and more of the melanopic blue/cyan light gets through. Melanopic

light in the morning and middle of the day is our time giver and entrains our circadian rhythm. Cells in the retina respond to blue/cyan spectral content of the white light. This non-visual response sets the biological clock that synchronises our bodies with nature's cycle of sunrise and sunset.



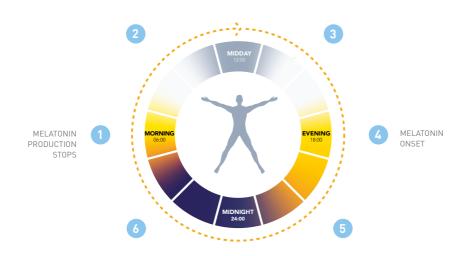
ROBUS HUMANITAS HUMAN CIRCADIAN RHYTHM



WHAT IS THE HUMAN CIRCADIAN RHYTHM?

The Latin words "circa diem" mean "about a day". Our bodies appear to run on a 24 hour and 12 minute day. That's called the "circadian rhythm". The body's clock needs to be reset every day, or it will drift.

Light, or more specifically, "melanopic" light (the blue-cyan part of the rainbow) is our primary timegiver. Melanopic light puts our body into day mode and sets our body clock.



1. START WAKING UP COOL LIGHT

HIGH INTENSITY

4.
MELATONIN ONSET
WARM LIGHT
MEDIUM INTENSITY

2. HIGH ALERTNESS COOL LIGHT

COOL LIGHT HIGH INTENSITY

5. START FEELING SLEEPY WARM LIGHT LOW INTENSITY

3. BEST COORDINATION & FASTEST REACTION TIME WHITE LIGHT HIGH INTENSITY

6. DEEPEST SLEEP BODY RESTORATION NO LIGHT

ROBUS HUMANITAS HUMAN CENTRIC LIGHTING



THERE ARE FOUR KEY PILLARS TO THE DELIVERY OF HUMAN CENTRIC LIGHTING

Human centric lighting needs to be connected, intelligent lighting, which is programmable and wirelessly controlled, and offers an App control option.



1. GLARE MITIGATION

Mitigates the effects of glare to comfortable levels when used as part of a good lighting design. Offered on selected ROBUS HUMANITAS fittings where optical design allows.



2. FLICKER AND TEMPORAL LIGHT ARTEFACT (TLA) SUPPRESSION

Supresses temporal light artefacts such as flicker and strobing. Standard on all ROBUS HUMANITAS fittings.



3. ILLUMINANCE BOOSTING IN TASK LIGHTING TO PROMOTE ENHANCED VISUAL ACUITY

Promotes visual activity and attentiveness for reading, writing, computer work, telesales and other tasks requiring concentration. Enabled by ROBUS HUMANITAS designs at 75% dim level for standard illuminance, and the HCL+ function.



4. TIMED VARIATION OF BLUE-CYAN LIGHTING

This is the defining characteristic of a Human Centric Lighting system. Standard on all ROBUS HUMANITAS fittings.

ROBUS HUMANITAS

FEATURES



WHAT ARE THE HUMAN CENTRIC FEATURES OF ROBUS HUMANITAS?



ENTRAINING YOUR CIRCADIAN RHYTHM

ROBUS HUMANITAS, with its tunable white light HCL/HCL+ programmes, can help to keep your circadian rhythm entrained day-on-day and can improve your sleep at night.



MORE LIGHT MEANS MORE VISUAL ACUITY

ROBUS HUMANITAS Installations are designed at a Maintenance Factor of 0.9, to deliver standard illuminance when operated at 75% dimming level. This leaves a reserve of 1/3rd of the standard illuminance lighting capacity in the ceiling, which can be called upon for times when additional task lighting is required to boost visual acuity.



LESS GLARE MEANS MORE COMFORT

Selected ROBUS HUMANITAS light fittings are equipped with optical design components which direct the light primarily downward, reducing the Unified Glare Rating (UGR) of the fitting and of the ultimate lighting scheme design.



AVOIDING THE DANGERS OF MELATONIN SUPPRESSION AT NIGHT

There is now significant evidence implicating melatonin suppression by Artificial Lighting at night (ALAN) having too high a melanopic factor (too much blue / cyan) in increasing the risk of prostate and breast cancers.



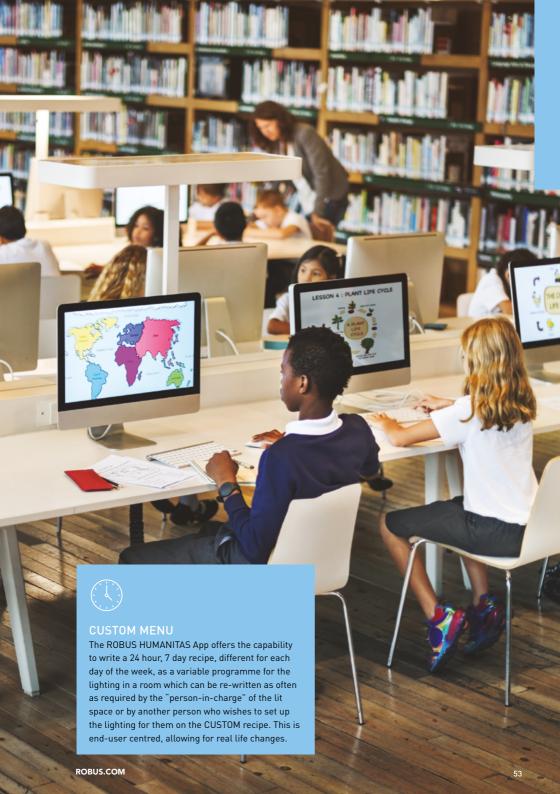
DESIGNED FOR A "PERSON IN CHARGE" OF A LIT SPACE

ROBUS HUMANITAS, MODUM and the HUMANITAS APP are all designed around the concept of a "person-in-charge" end user model. The Zigbee wireless network architecture is fundamentally designed around the concept of a single Zigbee Controller (ZC) device. Ideal for the 'person-in-charge' concept.



LOW FLICKER

ROBUS HUMANITAS light fittings come with flicker-suppressing drivers as standard, with the ultimate aim of suppressing flicker to 8% at 100Hz.



ROBUS HUMANITAS ROBUS HUMANITAS APP



TAKE CONTROL OF YOUR HUMAN CENTRIC LIGHT EXPERIENCE WITH THE ROBUS HUMANITAS APP

ROBUS HUMANITAS IS HUMAN CENTRIC AND USER CENTRIC LIGHTING TECHNOLOGY THAT PUTS YOU IN CONTROL.

Take control of ROBUS HUMANITAS fittings with the ROBUS HUMANITAS app. The ROBUS HUMANITAS app is available to download from the Apple App store and Google Play App store

Connect to ROBUS HUMANITAS MODUM controller via Bluetooth, using the unique PIN number of the MODUM unit. Only one phone may connect to a given MODUM at any one time, making its holder the designated "person-in-charge" of the room or lit space, for the time being.





ROBUS HUMANITAS ROBUS HUMANITAS APP



CONTROL TUNABLE WHITE COLOUR TEMPERATURE

You can manually set the colour temperature of your lights by slides or to 4 preprogrammed settings.



CONTROL DIMMING

Set the lighting level to suit your requirements by simply dragging a control.



3 PRE-SAVED CIRCADIAN HCL PROGRAMMES

HCL, HCL+ and Custom circadian and dynamic lighting programmes saved by default



CREATE YOUR OWN CIRCADIAN

You can create, modify and save a full circadian and dynamic lighting programme for seven days by using the CUSTOM editor.



4 FIXED SCENE SETS

Activate (100%, 6500K); Focus (100%, 5000K); Neutral (75%, 4000K) and Calm (65%, 2700K)



MANUAL SETTINGS

On the ROBUS HUMANITAS App, the person-in-charge can also manually set the colour temperature or dim the lights.

ROBUS HUMANITAS MODUM HUMANITAS





MODUM HUMANITAS ZIGBEE HUMAN CENTRIC LIGHTING CIRCADIAN / SCENE CONTROLLER

- · MODUM HUMANITAS is a microprocessor and Zigbee Controller (ZC) appliance, and so requires live, neutral and earth connections, and is installed on a separate circuit to the light fittings
- . The conventional on / off light switch is retained on the light fitting circuit
- . The HCL programme gradually varies the CCT of the light in accordance with typical outdoor CCT in spring and autumn
- The HCL+ programme also allows the light illuminance level to be increased as well as dimmed, allowing boosting of visual acuity for task lighting

	RHZMMEN-01
HCL Fixed Scene Sets:	4, plus off/
	on-to-Neutral 4000K/75%
Interface:	Capacitive Touch
App compatible:	with HUMANITAS App,
	via Bluetooth
Light fitting compatible:	Yes

DIMENSIONS(mm)	Width	Length	Depth	Recessed Depth
RHZMMEN-01	85	85	10	35







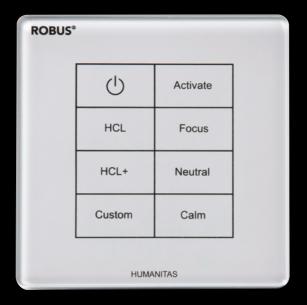








ROBUS HUMANITAS technology is the first straightforward, wholesaler friendly system of timed circadian lighting. It compromises a range of light fittings adapted for use with a ROBUS MODUM ZIGBEE wireless Controller.

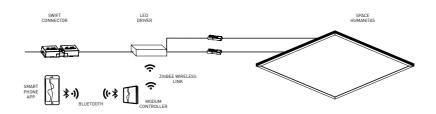


ROBUS MODUM HUMANITAS ZIGBEE

ROBUS HUMANITAS SPACE HUMANITAS







SPACE HUMANITAS 30W ZIGBEE CONTROLLED TUNABLE WHITE HCL PANEL, 595X595MM & 295X1195MM

- · C/w Zigbee wireless flicker-suppressed driver
- UGR<19 complies with the requirements of EN12464
- Luminance = 3000cd/m2 at >65° for ease of screen viewing
- TP_b Rated

	59	75 x 595mm	295	x 1,195mm
	RHZSF	306060-01	RHZSI	2303012-01
Total Power (W):	100%	30.5	100%	30.5
	75%	22.9	75%	22.9
Total Light Output	100%	3,260	100%	3,260
(lm) 4000K:	75%	2,445	75%	2,445
Efficacy (lm/cctW)		106		106
4000K:				
Lifetime (hrs):		50,000		50,000
Beam Angle (deg):		100		100
CCT (K):		2700-6500		2700-6500
CRI (Ra):		80		80

DIMENSIONS(mm)	Width	Length	Height
RHZSP306060-01	595	595	10
RHZSP303012-01	295	1,195	10

















ROBUS HUMANITAS makes indoor lighting more natural. Light regulates the Human Circadian Rhythm and artificial lighting has disturbed this rhythm. Prior to the invention of artificial light the only source of natural light was the sunlight and moonlight.



ROBUS SPACE HUMANITAS

ROBUS HUMANITAS SCHOLAR HUMANITAS





SCHOLAR HUMANITAS 45W ZIGBEE CONTROLLED TUNABLE WHITE HCL BATTEN

DIMENSIONS(mm) Width RHZSC6015-01

144

1,500

70

- C/w Zigbee wireless flicker-suppressed driver
- LED replacement for 2 x 36W T8 fluorescent
- High efficacy of 125 lm/W
- · Opal diffuser available to further reduce glare

		1,500mm
	RHZSC4515	
Total Power (W):	100%	
	75%	32.5
Total Light Output	100%	5,625
(lm):	75%	4,220
Efficacy (lm/cctW):		125
Lifetime (hrs):		50,000
Beam Angle (deg):		120
CCT (K):	2	700-6500
CRI (Ra):		>80







ROBUS HUMANITAS OWL HUMANITAS





OWL HUMANITAS 13W ZIGBEE CONTROLLED TUNABLE WHITE HCL GEAR TRAY FOR SURFACE MOUNT FITTINGS

COMPATIBLE WITH ROBUS EAGLE, HAWK, GOLF

- C/w Zigbee wireless flicker-suppressed driver
- Direct plug and play replacement for EAGLE MEDIUM or HAWK MEDIUM gear trays
- Wireable replacement for GOLF 330 mm gear tray, and similar manufacturer surface fittings
- Efficacy of 106 lm/ccctW when used in ROBUS fittings
- The ideal option for retrofitting HCL into existing surface mount fittings

	RI	HZETM13
Total Power (W):	100%	13
	75%	9.8
Total Light Output	100%	1,380
(lm) 4000K:	75%	1,035
Efficacy (lm/cctW) 4000K:		106
Lifetime (hrs):		50,000
Beam Angle (deg):		120
CCT (K):	2	700-6500
CRI (Ra):		>80

DIMENSIONS(mm)	Diameter	Height
RHZETM13	260	28

















ROBUS° LINX

MAKE YOUR FITTINGS
SMART WITH ROBUS
LINX. OUR NEW LIGHTING
CONTROL AND BUILDING
AUTOMATION SYSTEM.

Transform your commercial premises into a building that learns, acts and constantly develops. ROBUS LINX gives your building(s) a brain so that it can adapt to usage, provide data reports and give you complete control over the lighting system.

POWERFUL, SELF-HEALING & ENERGY CONSCIOUS.



ROBUS LINX makes a building become more efficient, cost effective and energy conscious. Use real time sensor data to optimize your lighting or other building system whether you are in a small office or large university campus.

EFFICIENT, COST EFFECTIVE & SIMPLE.





ENERGY MANAGEMENT

VISUALISE REAL TIME & HISTORICAL ENERGY USAGE & SAVINGS

CONFIGURE

FLEXIBLE SCENES & SCHEDULES FOR EVERY AREA, ROOM & BUILDING

SELF-HEALING

SYSTEM AUTO ADAPTS TO ENSURE CONTINUOUS CONNECTIVITY

FLEXIBLE ACCESS

CHOICE OF THE CLOUD OR A SECURE LOCAL NETWORK

63



ROBUS LINX WILL HELP IMPROVE
THE SAFETY AND PRODUCTIVITY
OF THE PEOPLE IN YOUR BUILDING
WITH AUTO ADAPTIVE LIGHTING
KEEPING A PERFECT AMBIENT
ENVIRONMENT.

Configure and reconfigure lighting zones, scenes and schedules as your business changes, without re wiring. Revolutionise maintenance with instant email alerts telling you what's wrong and where to go, saving time and money. Integrate ROBUS LINX with another HVAC/building control system to optimise building management and automation.

FLEXIBLE, SAFE & SECURE.

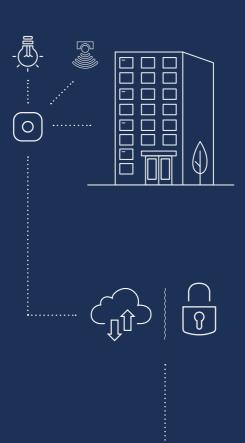
CONVENIENCE WITH COST SAVING.



HOW IT WORKS

ROBUS LINX YOUR LIGHTING

ROBUS LINX lights are installed like any standard light fitting along with sensors and switches to provide real time data and control. Simply plug the gateway into your router. These coordinate your devices enabling access (if you choose) to the internet and to your lighting system or reports from anywhere in the world.



SECURE DATA STORAGE

All data is securely recorded on either the cloud database or a local server.

CONTROL & MONITOR

Control your lights or let the system do it for you. Improve building resource management with simple and easy to understand reports sent straight to your email.



ROBUS LINX LAUNCHING Q1 2020

BENEFITS



FLEXIBLE CONFIGURATION

Quickly and simple configure levels, scenes and schedules for every area, room and building across multiple locations or even countries.



SEE THE ENERGY SAVINGS

Get real time and historical reports showing how much energy is being consumed per fitting/per zone. This information can enable the system to save even more energy.



Add device(s)



Set up scenes, schedules and zone



WIRELESS CONTROL

Install ROBUS LINX lights or convert a normal fitting to a LINX fitting with no new wiring. Then control your lights from anywhere in the building or world.



STREAMLINE MAINTENANCE

Receive alerts via email telling you what and where a device has failed; maximising maintenance resources, ensuring a quick fix and your building always has perfect lighting.



Wireless Control



Energy usage & alerts



COMMERCIAL

ATMOS LED PANEL	70
SPACE UGR≤19 LED PANEL	74
EMERGENCY PACK	78
STELLAR UGR<19 LED INDIRECT PANEL	80
ELEVATE LED PANEL	82
TOUCAN LED BATTEN	84
BARON LED CCT3 SELECTABLE BATTEN	86
ALEXANDER LED BATTEN	88
CAESAR LED BATTEN	90
SCHOLAR LED BATTEN	92

ROBUS.COM Page 1997

COMMERCIAL ATMOS LED PANEL



ATMOS LED PANEL, 600X600MM, WHITE

- Suitable for use in offices, shops, reception areas, restaurants, hotels, schools, hospitals
- UGR ≤19 for small offices to comply with EN12464
- A high quality PP thermoplastic diffuser ensures that light transmission is maximised into the lit space and provides a TP_a rating to comply with fire regulations
- Wide operating ambient temperature range of -20°C to +40°C
- Emergency pack provides high lumen output to comply with emergency lighting regulations using minimum number of fittings and utilises LiFePO4 battery technology for long life
- Full range of mounting accessories available for all installation types
- Suitable for switching by external PIR, Microwave or Photocell

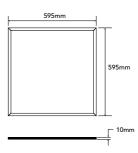
ACCESSORIES

R3EMPK4-PSU	3 Hour Emergency Pack with LifePO ₄ Batter
R6060SMKFB-01	Flat packed surface mount box 600x600mm
RAMSUS-4W	4 wire suspension kit 600x600mm
RAMSST	Safety bracket and 2m strap 600x600mm
RAM40FFDVR	Flicker free driver
HED2040-D	1-10V, DALI and Push dim driver available
RAMRC	Plaster board recessed clips kit
RPLBRK-01	Adjustable surface mount bracket

CONVERSIONS AVAILABLE



DIMENSIONS(mm)	Width	Length	Depth
RAM40306060-01	595	595	10
RAM40406060-01	595	595	10
PAM40504040_01	595	595	10





Warm White	Neutral White	Cool White
RAM40306060-01	RAM40406060-01	RAM40506060-01
RAM40306060X-01	RAM40406060X-01	N/A
600 x 600mm	600 x 600mm	600 x 600mm
4x18W Fluorescent	4x18W Fluorescent	4x18W Fluorescent
38.1	38.3	37.7
3,390	3,810	3,800
89	99	101
50,000	50,000	50,000
110	110	110
1,170	1,310	1,310
3000	4000	5000
80	80	80
0.97	0.97	0.97
06	06	06
1/4	1/4	1/4
2.0	2.0	2.0
	RAM40306060-01 RAM40306060X-01 600 x 600mm 4x18W Fluorescent 38.1 3,390 89 50,000 110 1,170 3000 80 0.97	RAM40306060-01 RAM40406060-01 RAM40306060X-01 RAM40406060X-01 600 x 600mm 600 x 600mm 4x18W Fluorescent 4x18W Fluorescent 38.1 38.3 3,390 3,810 89 99 50,000 50,000 110 110 1,170 1,310 3000 4000 80 80 0.97 0.97 06 06 1/4 1/4











SEAI approved

ATMOS LED PANEL



ATMOS LED PANEL, 300X1200MM AND 600X1200MM, WHITE

- Suitable for use in offices, shops, reception areas, restaurants, hotels, schools, hospitals
- UGR ≤19 for small offices to comply with EN12464
- A high quality PP thermoplastic diffuser ensures that light transmission is maximised into the lit space and provides a TP_a rating to comply with fire regulations
- Wide operating ambient temperature range of -20°C to +40°C
- Emergency pack provides high lumen output to comply with emergency lighting regulations using minimum number of fittings and utilises LiFePO₄ battery technology for long life
- Full range of mounting accessories available for all installation types
- · Suitable for switching by external PIR, Microwave or Photocell

CONVERSIONS AVAILABLE



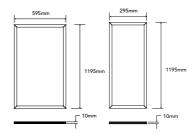
ACCESSORIES

R3EMPK4-PSU	3 Hour Emergency Pack with LifePO ₄ Battery
R1230SMKFB-01	Flat Packed Surface mount box for 300 x 1,200mm
R60120SMKFB-01	Flat packed surface mount box for 600 x 1,200mm
RAMSUS-3W	3 wire suspension kit for 300 x 1,200mm
RAMSUS-6W	6 wire suspension kit for 600 x 1,200mm
HED2040-D	1-10V, DALI and Push dim driver available
RAMRC	Plaster Board recessed clips kit
RPLBRK-01	Panel adjustable suspension bracket

SPACING DISTANCES

Code	Lux Level	Spacing Required	Wattage
RAM40406060-01	300 Lux 500 Lux	3.25 x 3.25 mm 2.4 x 2.4 mm	38W
RAM40506060-01	300 Lux 500 Lux	3.1 x 3.1 mm 2.6 x 2.6 mm	38W
RAM40403012-01	300 Lux 500 Lux	4.2 x 3.75 mm 3.0 x 3.3 mm	38W
RAM60406012-01	300 Lux 500 Lux	3.3 x 3.0 mm 2.6 x 2.4 mm	60W
RAM40306060-01	300 Lux 500 Lux	3.0 x 3.0 mm 2.25 x 2.25 mm	38W

DIMENSIONS(mm) Width Length Depth RAM40403012-01 295 1,195 10 RAM60406012-01 595 1,195 12





	40W	60W
	RAM40403012-01	RAM60406012-01
	300 x 1,200mm	600 x 1,200mm
Comparable to:	2x36W Fluorescent	4x36W Fluorescent
Total Power (W):	37.5	60.8
Total Light Output (lm):	3,730	6,620
Efficacy (lm/cctW):	100	109
Lifetime (hrs):	50,000	50,000
Beam Angle (deg):	110	120
Lux at 1m (lux):	1,290	2,110
CCT (K):	4000	4000
CRI (Ra):	80	80
Power Factor (PF):	0.97	0.97
Impact Rating (IK):	05	05
Box Qty:	1/4	1/2
Weight (kg):	2.4	5











0P IP PHOTO METRICS

SEAI approved ECA eligible

SPACE UGR≤19 LED PANEL





SPACE UGR≤19 LED PANEL LIGHT

- Suitable for offices, hospitals, shops, hotels, schools and inspection areas
- . TP(b) rated diffuser in accordance with BS2782.0:2011 Method 508A
- UGR<19 complies with the requirements of EN12464 for reading, writing and computer based tasks in offices and other areas
- The driver primary side is pre-wired with the male half of our SWIFT 4 pole connector with the female part supplied for wiring to the supply infrastructure. Four large terminals allow for a number of conductors for loop in/out and permanent and switched live supplies
- Luminance <3000cd/m² at <65° for ease of screen viewing
- A pre-wired Plug & Play universal DALI, Analogue 1-10v, SwitchDim driver option is available

ACCESSORIES

HED2040-D DALI, 1-10V, Switch Dim, 40W Rated Driver R6060SMKFB-01 Surface Mount Box, 50mm depth

RAMSUS-4W 4 Wire Suspension Kit

RAMSST Safety Bracket & 2M strap

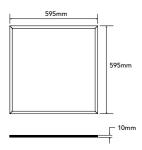
R3EMPK4-PSU 3 Hour Emergency Pack with LifePO₄ Battery

RAMRC Plaster Boards Recessed Clips Kit
RPLBRK-01 Panel Adjustable Suspension Bracket

CONVERSIONS AVAILABLE



DIMENSIONS(mm)	Width	Length	Depth
RSP30406060UGR-01	595	595	10
RSP30506060UGR-01	595	595	10





	RSP30406060UGR-01	RSP30506060UGR-01
Comparable to:	4x18W T8	4x18W T8
Total Power (W):	30.8	31
Total Light Output (lm):	3,440	3,560
Efficacy (lm/cctW):	112	115
Lifetime (hrs):	50,000	50,000
Beam Angle (deg):	90	90
Lux at 1m (lux):	1,460	1,520
CCT (K):	4000	5000
CRI (Ra):	80	80
Power Factor (PF):	0.9	0.9
Impacting Rating (IK):	05	05
Weight (kg):	2.9	2.9
Box Qty:	1	1









ECA eligible SEAI Approved



ATMOS & SPACE LED PANEL



ATMOS & SPACE SURFACE MOUNT BOX

- A surface mount box that allows for the surface mounting of a panel with the driver concealed behind the fitting or located behind the wall / ceiling void
- Surface mount box frames supplied flat packed and must be assembled on site

ATMOC	CDAOE	CHEDE	LCION	WITC
ATMOS 8	& SPALE	SUSPEI	NOIUN	KIIS

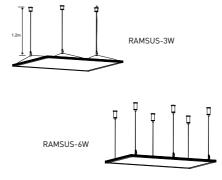
 Suspension kits enable panel to be suspended at a length of 1.2/1.5m

DIMENSIONS(mm)	Width	Length	Depth
R6060SMKFB-01	600	600	50
R1230SMKFB-01	300	1,200	50
R60120SMKFB-01	600	1,200	50



Surface Mount box 600x600mm

RAMSUS-3W	3 wire for 300x1200mm panels
RAMSUS-4W	4 wire for 600x600mm panels
RAMSUS-6W	6 wire for 600x1200mm panels
RAMSST	Safety bracket and 2m strap kit fo LED Panel





EMERGENCY PACK FOR PANELS & VIRTUE DOWNLIGHTS





3 HOUR EMERGENCY PACK, with Swift Connector for use with Panels & Downlights

- · Plug and play when used with fittings that come with swift connector
- Low power consumption
- Using high quality LiFePO₄ battery
- Providing 3 hour emergency discharge duration
- · Emergency light output dependant on fitting it is installed in
- Wide operating temperature range of 0°C to +40°C

	R3EMPK4-PSU
Total Power (W):	3.5
IP:	20
Power Factor (PF):	0.4
Box Qty:	1/20
Weight (kg):	0.5
Charging Time (hrs):	24
Discharge Time (hrs):	3

DIMENSIONS(mm)	Width	Length	Height
R3EMPK4-PSU	60	230	37











STELLAR UGR < 19 LED INDIRECT PANEL



STELLAR 28W UGR < 19 LED INDIRECT PANEL LIGHT, WHITE

- Fits into standard sizes of ceiling grid 15mm and 24mm
- UGR ≤19 complies with the requirements of EN12464 for reading, writing and computer based tasks in offices and other areas
- Wide operating ambient temperature range of -20°C to +40°C
- · Pre-wired with SWIFT male and female loop in / loop out connector enabling fast fix installation
- · Winged design with PMMA TPb diffuser material
- · Suitable for switching by external PIR, Microwave or Photocell
- · Emergency option is also available

CONVERSIONS AVAILABLE

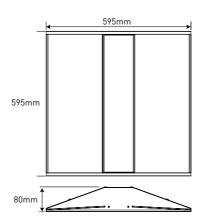


ACCESSORIES

R3EMPK4-PSU 3 Hour Emergency pack with LifePO4 Battery HED2040-D 1-10V. DALI and Push dim driver available

DIMENSIONS (mm)	Width	Length	Depth
RSL28406060-01	595	595	80

	RSL28406060-01
Comparable to:	4 x 18W fluorescent
Total Power (W):	28.4
Total Light Output (lm):	3,200
Efficacy (lm/cctW):	113
Lifetime (hrs):	50,000
Beam Angle (deg):	80
Lux at 1m (lux):	1,800
CCT (K):	4000
CRI (Ra):	80
Power Factor (PF):	0.95
Impacting Rating (IK):	06
Weight (kg):	4.1
Box Qty:	1

















SEAI Approved



COMMERCIAL **ELEVATE PANEL**





ELEVATE LED PANEL

- LED replacement for 2x36W T8 linear fittings
- · Complete with suspension cables allowing suspension up to 1.2m
- · Complete with low flicker, high quality driver complying with IEEE 1789-2015
- 50,000 hour average lamp life, up to 5 times that of a standard fluorescent
- High efficacy of 100lm/W
- Wide operating ambient temperature range of -20°C to +40°C
- Suitable for switching by PIR, Microwave or Photocell

	REV40403012T-01
Comparable to:	2x36W T8 fluorescent
Total Power (W):	37.2
Total Light Output (lm):	3700
Efficacy (lm/cctW):	100
Lifetime (hrs):	50,000
Beam Angle (deg):	140
Lux at 1m (lux):	710
CCT (K):	4000
CRI (Ra):	85
Power Factor (PF):	0.98
Impact Rating (IK):	02
Box Qty:	1
Weight (kg):	4.46

DIMENSIONS(mm)	Width	Length	Height
REV40403012T-01	320	1,212	50

















COMMERCIAL TOUCAN LED BATTEN

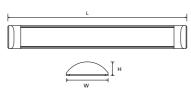


TOUCAN LED BATTEN, WHITE

- Suitable for use in flat and apartment blocks, public buildings, care homes, communal areas, reception areas
- Low profile aluminium housing with PBT end caps and polycarbonate diffuser
- · Complete with stainless steel mounting brackets
- Pre-wired with 1m of flex
- Suitable for switching by external PIR, Microwave or Photocell



DIMENSIONS (mm)	Width	Length	Height
RTC184006-01	75	615	25
RTC364012-01	75	1,215	25
RTC454015-01	75	1,515	25





	0.6M	1.2M	1.5M
	18W	36W	45W
	RTC184006-01	RTC364012-01	RTC454015-01
Comparable to:	2 x 18W	2 x 36W	1 x 70W
Total Power (W):	18.7	34.3	43.4
Total Light Output (lm):	1,810	3,640	4,340
Efficacy (lm/cctW):	97	106	100
Lifetime (hrs):	30,000	30,000	30,000
Lux at 1m (lux):	600	1,200	1,400
Beam Angle (deg):	140	140	140
CCT (K):	4000	4000	4000
CRI:	80	80	80
IP:	20	20	20
Impact Rating (IK):	08	08	08
Power Factor (PF):	0.95	0.95	0.95
Box Qty:	1	1	1
Weight (kg):	0.42	0.8	1.1



SEAI Approved

EARL LED CCT3 SELECTABLE BATTEN



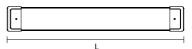
EARL LED CCT3 SELECTABLE BATTEN, IP20, WHITE

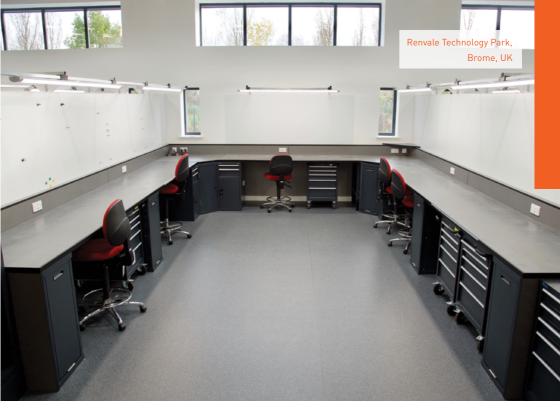
- Suitable for use in flat and apartment blocks, public buildings, care homes, communal areas, reception areas
- Correlated Colour Temperature (CCT) selectable via 3 way switch under one of end caps enabling switching between 3000K, 4500K and 6500K
- Low profile aluminium housing with polycarbonate end caps and diffuser
- Large screw terminal block allowing max 2.5mm² conductors
- Wide operating ambient temperature range of -20°C to +40°C
- Suitable for switching by external PIR, Microwave or Photocell



DIMENSIONS(mm)	Width	Length	Height
RER2006CCT3-01	83	600	38
RER4012CCT3-01	83	1,200	38
RER6015CCT3-01	83	1,500	38
RER6018CCT3-01	83	1,800	38







	0.6M	1.2M	1.5M	1.8M
	RER2006CCT3-01	RER4012CCT3-01	RER6015CCT3-01	RER6018CCT3-01
Comparable to:	2 x 18W	2 x 36W	2x58W	1x70W
Total Power (W):	20.2/19.9/20.3	40/38.7/40.3	59.3/57.1/59.2	60.4/57.4/59.4
Total light output (lm):	1,960/2,180/2,080	3,460/3,880/3,640s	5,830/6,570/6,050	6,060/6,940/6,340
Efficacy (lm/cctW):	97/110/103	87/100/90	98/115/102	100/120/107
Lifetime (hrs):	30,000	30,000	30,000	30,000
Beam Angle (deg):	120	120	120	120
Lux at 1m (lux):	600/670/640	1,010/1,140/1,070	1,820/2,060/1,900	1,920/2,190/2,010
CCT (K)	3000/4500/6500	3000/4500/6500	3000/4500/6500	3000/4500/6500
CRI (Ra):	>80	>80	>80	>80
Power Factor (PF):	0.95	0.95	0.95	0.95
Impact Rating (IK):	07	07	07	07
Box Qty:	1	1	1	1
Weight (kg)	0.32	0.61	0.77	0.9









SEAI Approved

ALEXANDER LED BATTEN



ALEXANDER LED BATTEN, IP20, WHITE

- · Suitable for use in offices, corridors, retail shops, health centres, storage areas, classrooms and work stations
- · Integral emergency available in all versions above 600mm
- · Easy open and disassembly of housing sections provides fast and simple installation
- Wide operating ambient temperature range of -20 $^{\circ}$ C to +40 $^{\circ}$ C
- Includes BESA box mounting facility, pre-punched surface fixing holes and suspension fixing points
- · Light output is diffused to provide a low glare
- Suitable for switching by external PIR, Microwave or Photocell
- · Conduit entry available through the end caps

ACCESSORIES

RAFSUS-2W 2 Wire Suspension Kit

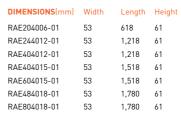
CONVERSIONS AVAILABLE

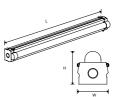












COMMERCIAL ALEXANDER LED BATTEN

	0.6M	1.2M	1.2M	1.5M	1.5M
Standard Emergency	RAE204006-01	RAE244012-01 RAE244012E-01	RAE404012-01 RAE404012E-01	RAE404015-01 RAE404015E-01	RAE604015-01 RAE604015E-01
Comparable to:	2 X 18W T8	1 x 36W T8	2 x 36W T8	1 x 58W T8	2 x 58W T8
Total Power (W):	19.5	22.6	39.2	38.4	55.4
Total Light Output (lm):	2,340 standard	2,870 standard 380 emergency	4,900 standard 440 emergency	4,640 standard 350 emergency	6,690 standard 440 emergency
Efficacy (lm/cctW):	120	127	125	121	121
Lifetime (hrs):	50,000	50,000	50,000	50,000	50,000
Lux at 1m (lux):	660 standard	820 standard 110 emergency	1,450 standard 120 emergency	1,310 standard 100 emergency	1,890 standard 120 emergency
Beam Angle (deg):	130	130	130	130	130
CCT (K):	4000	4000	4000	4000	4000
CRI (Ra):	80	80	80	80	80
Impact Rating (IK):	08	08	08	08	08
Power Factor (PF):	0.95	0.95	0.97	0.97	0.95
Output Current (mA):	480	600	1,000	1,000	1,400
Box Qty:	1	1	1	1	1
Weight (kg):	0.63	1.1/1.56	1.1/1.56	1.39/1.88	1.39/1.88

	1.8M	1.8M
Standard	RAE484018-01	RAE804018-01
Emergency	RAE484018E-01	RAE804018E-01
Comparable to:	1 x 70W T8	2 x 70W T8
Total Power (W):	51.0	83.2
Total Light Output	6,000 standard	9,840 standard
(lm):	420 emergency	400 emergency
Efficacy (lm/cctW):	118	118
Lifetime (hrs):	50,000	50,000
Lux at 1m (lux):	1,700 standard	2,790 standard
	120 emergency	110 emergency
Beam Angle (deg):	130	130
CCT (K):	4000	4000
CRI:	80	80
Impact Rating (IK):	08	08
Power Factor (PF):	0.97	0.97
Output Current (mA):	1,200	2,000
Box Qty:	1	1
Weight (kg):	1.65/2.1	1.65/2.1



ECA eligible Triple E registered



CAESAR LED BATTEN



CAESAR LED BATTEN, WHITE

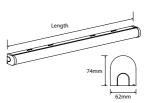
- Suitable for use in offices, corridors, stairways, retail shops, health centres, storage areas, work stations, hotels, schools
- Wide operating ambient temperature range of -20°C to +40°C
- Emergency version operates for 3 hour duration, c/w test switch
- · Large terminals allowing easy loop-in/loop-out
- C/w mounting accessories and suspension kit allowing suspending at max 1m
- · Suitable for analogue, DALI, and switch dimming
- Complies with requirements of the Energy Technology Criteria List. Enhanced Capital Allowances may be claimed on the cost of the luminaires, installation and transport to site
- · Conduit entry available through the end caps



CONVERSIONS AVAILABLE



DIMENSIONS(mm)	Width	Length	Height
RCA244006-01	62	560	74
RCA244012-01	62	1,160	74
RCA484012-01	62	1,160	74
RCA484015-01	62	1,460	74
RCA804015-01	62	1,460	74
RCA604018-01	62	1,723	74
RCA964018-01	62	1,723	74



COMMERCIAL CAESAR LED BATTEN

	0.6M	1.2M	1.2M	1.5M	1.5M
Neutral White	24W	24W	48W	48W	80W
Standard	RCA244006-01	RCA244012-01	RCA484012-01	RCA484015-01	RCA804015-01
Emergency		RCA244012E-01	RCA484012E-01	RCA484015E-01	RCA804015E-01
Comparable to:	2 x 18W	1 x 36W	2 x 36W	1 x 58W	2 x 58W
Total Power (W):	23.1	23.0	46.0	45.8	78.5
Total Light Output (lm):	2,660 standard	2,850 standard	5,320 standard	5,400 standard	8,720 standard
		410 emergency	410 emergency	410 emergency	400 emergency
Efficacy (lm/cctW):	115	124	116	118	111
Lifetime (hrs):	50,000	50,000	50,000	50,000	50,000
Beam Angle (deg):	140	140	140	140	140
Lux at 1m (lux):	730 standard	770 standard	1,440 standard	1,460 standard	2,320 standard
		110 emergency	110 emergency	110 emergency	110 emergency
CCT (K):	4000	4000	4000	4000	4000
CRI (Ra):	80	80	80	80	80
Power Factor (PF):	0.95	0.95	0.97	0.97	0.97
Impact Rating (IK):	08	08	08	08	08
Weight (kg):	0.78	2.1/2.4	2.1/2.5	2.5/3.0	2.5/3.1

	1.8M	1.8M
Neutral White	60W	96W
Standard	RCA604018-01	RCA964018-01
Comparable to:	1 x 70W	2 x 70W
Total Power (W):	56.4	96.4
Total Light Output (lm):	7,140 standard	11,260 standard
Efficacy (lm/cctW):	127	117
Lifetime (hrs):	50,000	50,000
Lux at 1m (lux):	1,900	3,150
Beam Angle (deg):	140	140
CCT (K):	4000	4000
CRI:	80	80
Impact Rating (IK):	08	08
Power Factor (PF):	0.97	0.97
Weight (kg):	3.1	3.2



ECA eligible SEAI approved



SCHOLAR LED BATTEN



SCHOLAR LED BATTEN, WHITE

- Suitable for use in schools, hotels, offices, retail shops, corridors, stairways, work stations, storage areas, inspection areas
- Suitable for surface or suspension mounting using the fixing kits included
- · Pressed steel housing with polycarbonate diffuser
- Opal diffuser available to reduce glare
- · Equipped with a low flicker driver
- Wide operating ambient temperature range of -20°C to +40°C
- Suitable for switching by external PIR, Microwave or Photocell

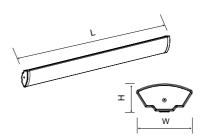
OPAL DIFFUSERS	RSC120D	RSC150D
Total Light Output (lm):	3,960	5,000

	1.2M	1.5M
	50W	60W
Standard	RSC504012-01	RSC604015-01
Emergency	RSC504012E-01	RSC604015E-01
Comparable to:	2 x 36W T8	2 x 58W T8
Comparable to:	fluorescent	fluorescent
Total Power (W):	49.3	57.9
Total Light	4,840 standard	6,100 standard
Output (lm):	350 emergency	380 emergency
Efficacy (lm/cctW):	98	105
Lifetime (hrs):	50,000	50,000
Beam Angle (deg):	120	120
Lux at 1m (lux):	1,490 standard	1,850 standard
Lux at IIII (tux):	100 emergency	110 emergency
CCT (K):	4000	4000
CRI (Ra):	80	80
Power Factor (PF):	0.97	0.97
Impact Rating (IK):	08	08
Output Current (mA):	1,200	1,400
Box Qty:	1	1
Weight (kg):	2.4/2.9	3.1/3.4

CONVERSIONS AVAILABLE



DIMENSIONS(mm)	Width	Length	Height
RSC504012-01	144	1,190	70
RSC604015-01	144	1,490	70



Triple E registered SEAI Approved





















INDUSTRIAL

VULCAN LED CORROSION PROOF	94
SULTAN LED CORROSION PROOF	104
HARBOUR LED CORROSION PROOF	112
PIR FOR CAESAR, SULTAN & VULCAN	118
LAZER LED VAPOUR PROOF	120
CHAMPION LED FLOOD LIGHT	122
SONIC LED HIGHBAY	124
PRISMOID LED LINEAR HI-RACK	128
KINGSTON LED LOW BAY	132
FALCON LED WALL LIGHT	134
STREEX LED STREET LIGHT	136

VULCAN LED CORROSION PROOF



DESIGNED FOR DEMANDING INDUSTRIAL APPLICATIONS, THE ROBUS VULCAN IS THE ULTIMATE ENERGY SAVING, CORROSION-PROOF LED SOLUTION FOR CAR PARKS, COLD STORES, CORRIDORS AND GARAGES. THE RANGE PROVIDES LIGHT OUTPUT COMPARABLE TO WATERPROOF LINEAR FLUORESCENT.

THE DIRECT LINEAR FLUORESCENT REPLACEMENT

Single 6FT	RVUF486FT-24
Double 6FT	RVUF966FT-24
Single 5FT	RVUF405FT-24
Double 5FT	RVUF805FT-24
Single 4FT	RVUF244FT-24
Double 4FT	RVUF484FT-24
Single 2FT	RVUF122FT-24
Double 2FT	RVUF242FT-24



ECA eligible

FEATURES:

CORROSION PROOF

Polycarbonate housing, diffuser and stainless steel clips provide optimal protection in severe conditions against the effects of water

HIGH STRENGTH POLYCARBONATE BASE & DIFFUSER

Wide beam angle and no glare Evenly diffused light

EASY INSTALLATION

Supplied with LED Driver
Plug & Play mains connection system
Tool-free removable gear tray
Anti-corrosion clips
Surface or Chain Suspension

COST EFFECTIVE

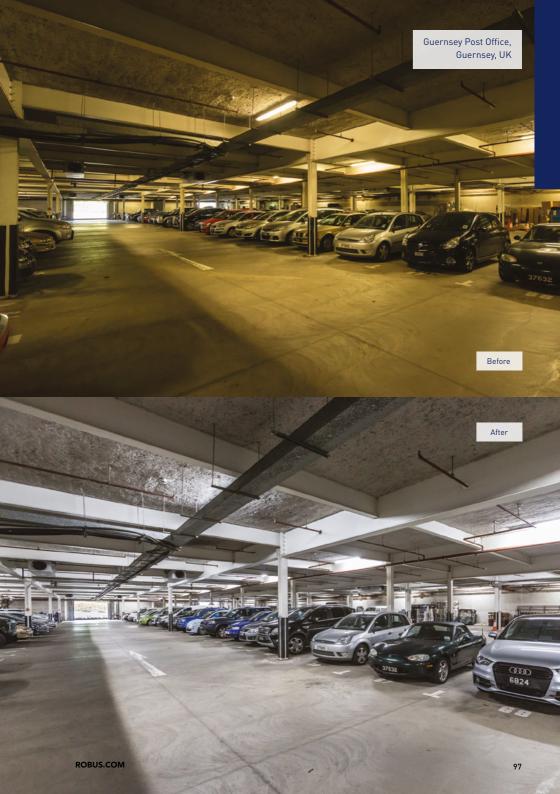
35% energy saving 50,000 hour rated LED life Reduced energy, maintenance and disposal costs

WIDE RANGE OF APPLICATIONS

No heat filaments or electrodes Resistant to shock and vibration Withstands temperatures of -25° C to 40°C

PERFORMANCE DRIVEN

>105 lumens per circuit watt Part L2 compliant 5 year warranty



VULCAN LED CORROSION PROOF



VULCAN LED CORROSION PROOF, 4FT & 2FT

- Suitable for workshops, garages, warehouses, car parks, farm buildings, wet areas
- Complete with stainless steel anti-corrosion clips
- Wide operating ambient temperature range of -25°C to +40°C
- 1-10V dimmable and integral Microwave Sensor options available
- Complies with requirements of the Energy Technology Criteria List. Enhanced Capital Allowances may be claimed on the cost of the luminaires, installation and transport to site

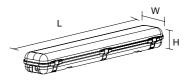


ACCESSORIES

RVUDMB	${\tt VULCAN\ Stainless\ Steel\ Double\ Mounting\ Bracket}$
R360PIR-01	PIR Sensor for linear fittings
R360RC-01	Remote control/programmer for PIR Sensor



DIMENSIONS(mm)	Width	Length	Height
RVUF244FT-24	93	1,258	97
RVUF484FT-24	140	1,258	97
RVUF122FT-24	93	660	97
RVUF242FT-24	140	660	97





Single	Double	Single	Double
0.6M	0.6M	1.2M	1.2M
1 X 12W	2 X 12W	1 X 24W	2 X 24W
RVUF122FT-24	RVUF242FT-24	RVUF244FT-24	RVUF484FT-24
RVUF122FTE-24	RVUF242FT-24E	RVUF244FT-24E	RVUF484FT-24E
1x18W T8	2x18W T8	1 x 36W T8	2 x 36W T8
12.8	23.6	23.1	47.5
1,600 standard	2,880 standard	2,900 standard	5.780 standard
330 emergency	330 emergency	330 emergency	330 emergency
126	122	126	122
50,000	50,000	50,000	50,000
115	115	115	115
520	950	970	1,980
5000	5000	5000	5000
80	80	80	80
0.95	0.95	0.95	0.97
08	08	08	08
1	1	1	1
1.07	1.35	2.5	3.0
	0.6M 1 X 12W RVUF122FT-24 RVUF122FTE-24 1x18W T8 12.8 1,600 standard 330 emergency 126 50,000 115 520 5000 80 0.95 08	0.6M 0.6M 1 X 12W 2 X 12W RVUF122FT-24 RVUF122FTE-24 RVUF242FT-24E 1x18W T8 2x18W T8 12.8 23.6 1,600 standard 330 emergency 330 emergency 126 122 50,000 50,000 115 115 520 950 5000 5000 80 80 0.95 0.95 08 08 1 1 1 1	0.6M 0.6M 1.2M 1 X 12W 2 X 12W 1 X 24W RVUF122FT-24 RVUF122FTE-24 RVUF242FT-24 RVUF244FT-24E RVUF244FT-24E 1x18W T8 2x18W T8 1 x 36W T8 12.8 23.6 23.1 1,600 standard 330 emergency 330 emergency 330 emergency 330 emergency 330 emergency 126 122 126 50,000 50,000 50,000 115 115 115 520 950 970 5000 5000 5000 80 80 80 0.95 0.95 0.95 08 08 08 1 1 1 1









ECA eligible SEAI approved

*2ft version only available in emergency or sensor

VULCAN LED CORROSION PROOF



VULCAN LED CORROSION PROOF, 5FT & 6FT

- Suitable for workshops, garages, warehouses, car parks, farm buildings, wet areas
- Complete with stainless steel anti-corrosion clips
- Wide operating ambient temperature range of -25°C to +40°C
- Emergency version available with 3 hour emergency duration
- 1-10V dimmable and integral Microwave Sensor options available
- · Emergency spacing details in back section of catalogue
- Complies with requirements of the Energy Technology Criteria List. Enhanced Capital Allowances may be claimed on the cost of the luminaires, installation and transport to site

CONVERSIONS AVAILABLE



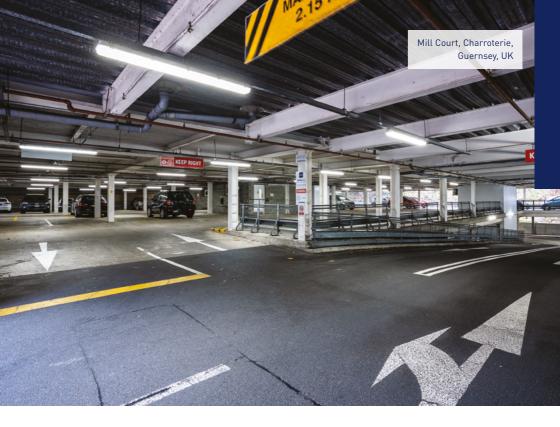
ACCESSORIES

RVUDMB	${\tt VULCAN\ Stainless\ Steel\ Double\ Mounting\ Bracket}$
R360PIR-01	PIR Sensor for linear fittings
R360RC-01	Remote control/programmer for PIR Sensor



DIMENSIONS (mm)	Width	Length	Height
RVUF486FT-24	93	1,835	97
RVUF966FT-24	140	1,835	97
RVUF405FT-24	93	1,560	97
RVUF805FT-24	140	1,560	97





Single	Double	Single	Double
		Jiligic	Double
1.5M	1.5M	1.8M	1.8M
1 x 40W	2 x 40W	1 x 48W	2 x 48W
RVUF405FT-24	RVUF805FT-24	RVUF486FT-24	RVUF966FT-24
RVUF405FTE-24	RVUF805FTE-24	RVUF486FT-24E	RVUF966FT-24E
1 x 58W T8	2 x 58W T8	1 x 70W T8	2 x 70W T8
39.6	78.7	46	93.2
4,490 standard	8,480 standard	5,850 standard	11,410 standard
330 emergency	330 emergency	380 emergency	360 emergency
113	108	127	123
50,000	50,000	50,000	50,000
115	115	115	115
1,390	2,760	1,870	3,970
5000	5000	5000	5000
80	80	80	80
0.97	0.97	0.97	0.97
08	08	08	08
1	1	1	1
2.5	3.5	2.7	3.8
	1 x 40W RVUF405FT-24 RVUF405FTE-24 1 x 58W T8 39.6 4,490 standard 330 emergency 113 50,000 115 1,390 5000 80 0.97 08 1	1 x 40W 2 x 40W RVUF405FT-24 RVUF405FTE-24 RVUF805FT-24 RVUF805FTE-24 1 x 58W T8 2 x 58W T8 39.6 78.7 4,490 standard 330 emergency 330 emergency 113 108 50,000 50,000 115 115 1,390 2,760 5000 5000 80 80 0.97 0.97 08 08 1 1 1 1	1 x 40W 2 x 40W 1 x 48W RVUF405FT-24 RVUF405FTE-24 RVUF805FT-24 RVUF486FT-24E RVUF486FT-24E 1 x 58W T8 2 x 58W T8 1 x 70W T8 39.6 78.7 46 4,490 standard 330 emergency 8,480 standard 330 emergency 380 emergency 113 108 127 50,000 50,000 50,000 115 115 115 1,390 2,760 1,870 5000 5000 5000 80 80 80 0.97 0.97 0.97 08 08 08 1 1 1









ECA eligible SEAI approved



 $\stackrel{\perp}{=}$ IP PHOTO L2







SLEEK, SLIM AND ROBUST, THE ROBUS SULTAN LED CORROSION PROOF IS A PERFECT LED RETROFIT SOLUTION WHERE FLUORESCENT CORROSION PROOFS ARE USED. THE HIGH STRENGTH OPAL DIFFUSER DELIVERS A SUPERIOR EVENLY DIFFUSED LIGHT OUTPUT PERFECT FOR USE IN CAR PARKS, COLD STORES, CORRIDORS AND GARAGES.

THE SLEEK LINEAR FLUORESCENT REPLACEMENT

Single 1.2M	RSUF244FT-24
Double 1.2M	RSUF484FT-24
Single 1.5M	RSUF405FT-24
Double 1.5M	RSUF805FT-24
Single 1.8M	RSUF486FT-24
Double 1.8M	RSUF966FT-24
Double 2FT Yellow Base	RSUF242FT-09
Single 4FT Yellow Base	RSUF244FT-09

FEATURES:

CORROSION PROOF

Polycarbonate housing, diffuser and stainless steel clips provide optimal protection in severe conditions against water

SLIM PROFILE

83mm wide for single fittings 103mm wide for double fittings

HIGH STRENGTH POLYCARBONATE BASE & DIFFUSER

Wide beam angle and no glare Evenly diffused light

EASY INSTALLATION

Wire through the back or from either end

COST EFFECTIVE

35% Energy Saving 50,000 hour rated LED life Reduced energy, maintenance and disposal costs

WIDE RANGE OF APPLICATIONS

No heat filaments or electrodes Resistant to shock and vibration Withstands temperatures of -25°C to 40°C

PERFORMANCE DRIVEN

Up to 126 lumens per circuit watt 3 year warranty

DIMMING OPTIONS

Suitable for Analogue, Dali and Switch dimming

INDUSTRIAL

SULTAN LED CORROSION PROOF



1. CABLE GLAND ENTRY

ENABLES WIRING THROUGH EITHER END OF THE FITTING FOR EASY INSTALLATION

4. LED

HIGH QUALITY SMD LEDS DELIVERING OVER 106 LUMENS PER CIRCUIT WATT

2. POLYCARBONATE BASE

PROVIDES PROTECTION AGAINST IMPACT, IK08

5. ALUMINIUM LED MOUNTING TRAY

THE PERFECT HEAT SINK FOR THE LEDS AND CONTROL GEAR

3. STAINLESS STEEL CLIPS

EASY TO SECURE THE OPAL DIFFUSER, ANTI-CORROSION

6. POLYCARBONATE DIFFUSER

PROVIDES A WIDE BEAM ANGLE AND EVENLY DIFFUSED LIGHT

SULTAN LED CORROSION PROOF



SULTAN LED CORROSION PROOF, GREY

- Suitable for workshops, garages, warehouses, car parks, farm buildings, wet areas
- Complete with stainless steel clips
- Wide operating ambient temperature range of -25°C to +40°C
- Emergency version operates for 3 hour duration, c/w test switch
- · Emergency spacing details in back section of catalogue
- Complies with requirements of the Energy Technology Criteria List. Enhanced Capital Allowances may be claimed on the cost of the luminaires, installation and transport to site

CONVERSIONS AVAILABLE



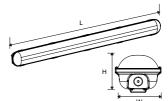
ACCESSORIES

RSUDMB	SULTAN double bracket
R360PIR-01	PIR Sensor for linear fitting

R360RC-01 Remote control/programmer for PIR Sensor



DIMENSIONS(mm)	Width	Length	Height
RSUF244FT-24	85	1,230	77
RSUF484FT-24	103	1,230	77
RSUF405FT-24	85	1,530	77
RVUF805FT-24	103	1,530	77
RSUF486FT-24	85	1,800	77
RSUF966FT-24	103	1,800	77



SULTAN LED CORROSION PROOF

	Single	Double	Single	Double
	1.2M	1.2M	1.5M	1.5M
	1 X 24W	2 X 24W	1 X 40W	2 X 40W
Standard Emergency	RSUF244FT-24 RSUF244FTE-24	RSUF484FT-24 RSUF484FTE-24	RSUF405FT-24 RSUF405FTE-24	RSUF805FT-24 RSUF805FTE-24
Comparable to:	1 x 36W	2 x 36W	1 x 58W	2 x 58W
Total Power (W):	22.9	45.4	40.2	77.9
Total Light Output (lm):	2,860 standard 430 emergency	5,600 standard 410 emergency	4,440 standard 390 emergency	8,260 standard 390 emergency
Efficacy (lm/cctW):	126	124	111	106
Lifetime (hrs):	50,000	50,000	50,000	50,000
Beam Angle (deg):	120	120	120	120
Lux at 1m (lux):	990	1,790	1,410	2,560
CCT (K):	5000	5000	5000	5000
CRI (Ra):	80	80	80	80
Power Factor (PF):	0.95	0.97	0.97	0.97
Impact Rating (IK):	08	08	08	08
Box Qty:	1	1	1	1
Weight (kg):	1.3	1.5	1.6	2.0

	Single	Double
	1.8M	1.8M
	1 X 46W	2 X 46W
Standard	RSUF486FT-24	RSUF966FT-24
Emergency	RSUF486FTE-24	RSUF966FTE-24
Comparable to:	1 x 70W T8	2 x 70W T8
Total Power (W):	47.3	91.3
Total Light	6,270 standard	11,610 standard
Output (lm):	420 emergency	430 emergency
Efficacy (lm/cctW):	133	127
Lifetime (hrs):	50,000	50,000
Beam Angle (deg):	120	120
Lux at 1m (lux):	2,090 standard	3,880 standard
Lux at Im (tux):	140 emergency	140 emergency
CCT (K):	5000	5000
CRI:	80	80
Power Factor (PF):	0.97	0.97
Impact Rating (IK):	08	08
Box Qty:	1	1
Weight (kg):	1.8	2.15







ECA eligible SEAI Approved









SULTAN 110V LED SITE CORROSION PROOF

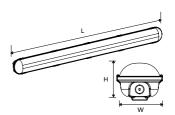


SULTAN LED SITE CORROSION PROOF, YELLOW BASE, 110V

- Suitable for construction sites, wet areas, workshops
- Wide operating ambient temperature range of -25°C to +40°C
- · Complete with stainless steel clips
- 3 hour emergency duration
- 15% of maintained output
- · Emergency spacing details in back section of catalogue



DIMENSIONS(mm)	Width	Length	Height
RSUF244FT-09	85	1,230	97
RSUF242FT-09	85	632	97





Standard	RSUF244FT-09	RSUF242FT-09
Emergency	RSUF244FTE-09	RSUF242FTE-09
Comparable to:	1 x 36W T8 Fluorescent	2 x 18W T8 Fluorescent
Total Power (W):	23.1	24.9
Total Light Output (lm):	2,780 standard	2,650 standard
	400 emergency	380 emergency
Efficacy (lm/cctW):	121	107
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	120	120
Lux at 1m (lux):	960 standard	910 standard
	140 emergency	130 emergency
CCT (K):	5000	5000
CRI (Ra):	80	80
Power Factor (PF):	0.95	0.95
Impact Rating (IK):	08	0
Weight (kg):	1.3	1.0







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HARBOUR LED CORROSION PROOF





THE ROBUS HARBOUR CORROSION PROOF FITTINGS CONSIST OF A HIGH QUALITY TRIDONIC CONSTANT CURRENT DRIVER WHICH ENSURES OPTIMUM LED PERFORMANCE, LIFE AND RELIABILITY. EACH FITTING CONTAINS A GEAR TRAY, FIXINGS AND PLUG & PLAY CONNECTORS ALLOWING THE 3 HOUR PLUG-IN EMERGENCY PACK WITH LIFEPO4 TO BE FITTED IN SECONDS. THIS LIFEPO4 BATTERY TECHNOLOGY MEANS THEY WILL HAVE PROLONGED EMERGENCY DURATION AND EXTENDED DISCHARGE/CHARGE CYCLES.

ROBUS EMERGENCY PACK READY (EPR)

GEAR TRAY, FIXINGS AND P&P CONNECTORS READY TO ACCEPT EMERGENCY PACK

LiFePO4 BATTERY TECHNOLOGY

PROLONGED EMERGENCY DURATION, EXTENDED DISCHARGE/CHARGE CYCLES, I OW WEIGHT

HIGH QUALITY TRIDONIC CONSTANT CURRENT DRIVER

OPTIMUM LED PERFORMANCE, LIFE AND RELIABILITY

Single 6FT, 34W RHA34406FT-24 Twin 6FT, 70W RHA70406FT-24 Single 5FT, 28W RHA28405FT-24 Twin 5FT, 80W RHA80405FT-24 Twin 5FT, 58W RHA58405FT-24 Single 4FT, 20W RHA20404FT-24 Twin 4FT, 40W RHA40404FT-24 Single 2FT, 10W RHA10402FT-24



ECA eligible

FEATURES:

Twin 2FT, 20W

CORROSION PROOF

IP65

PLUG & PLAY EMERGENCY OPTION

Provides high light output in emergency mode to ensure emergency lighting regulations are met

COST EFFECTIVE

50,000 hour rated LED life Reduced energy, maintenance and disposal costs

WIDE RANGE OF APPLICATIONS

IP65 & IK08 suitable to be installed in wet and dusty environments

RHA20402FT-24

Resistant to shock and vibration

Withstands temperatures of -25° C to 40°C

GOOD VISIBILITY

4,000K CCT and Ra of 80 means they are ideal for security cameras as used in many indoor or outdoor parking facilities







HARBOUR LED CORROSION PROOF



HARBOUR LED, IP65, CORROSION PROOF

- Suitable for workshops, garages, warehouses, car parks, farm buildings, wet areas and workshops
- The range benefits from the Robus EPR system (Emergency Pack Ready) which means that all emergency pack connections are by male/female connectors for true "Plug and Play"
- The ROBUS HARBOUR has a Tridonic constant current driver which provides optimum LED drive current to enhance LED life
- Wide ambient temperature range of -20°C to +40°C for standard and -10°C to +40°C with emergency pack
- LED being solid state means it has no filaments or electrode seals to fail
- · Can be used with PIR, Microwave, or Photocell sensors
- . BESA Box mounting available on Harbour double range

ACCESSORIES

RHA2WEMPK-PSU	HARBOUR 2W, 3 Hour Plug-in Emergency Pack with LiFePO ₄
RHA2WEMST-PSU	HARBOUR 2W, 3 Hour Plug-in Emergency Pack with LiFePO ₄ and self-test
R360PIR-01	PIR Sensor for linear fittings
R360RC-01	Remote control/programmer for PIR Sensor

LiFePO₄ BATTERY TECHNOLOGY

EMERGENCY VERSIONS UTILISE THE LATEST LIFEPO₄ BATTERY TECHNOLOGY WHICH HAS:

- . LOW WEIGHT FOR EASIER HANDLING OF THE LIGHT FITTING
- SHORTER TIME TO FULLY CHARGE FOR FASTER AVAILABILITY AFTER INSTALLATION
- SLOW DISCHARGE WHEN NOT CONNECTED TO MAINS
- >2000 CHARGE/DISCHARGE CYCLES, DOUBLE STANDARD LI

CONVERSIONS AVAILABLE



DIMENSIONS(mm)	Width	Length	Height
RHA10402FT	72	650	70
RHA20402FT	117	650	70
RHA20404FT	72	1,250	70
RHA40404FT	117	1,250	70
RHA28405FT	72	1,550	70
RHA58405FT	117	1,550	70
RHA80405FT	117	1,550	70
RHA34406FT	72	1,850	70
RHA70406FT	117	1,850	70





HARBOUR LED CORROSION PROOF

	Single	Double	Single	Double	Single
	0.6M	0.6M	1.2M	1.2M	1.5M
Standard	RHA10402FT-24	RHA20402FT-24	RHA20404FT-24	RHA40404FT-24	RHA28405FT-24
Comparable to:	1x18W T8	2x18W T8	1x36W T8	2x36W T8	1x58W T8
Total Power (W):	9.8	18.9	18.9	37.5	26.8
Total Light Output (lm):	1,080 standard	2,160 standard	2,250 standard	4,260 standard	3,050 standard
	180 emergency	290 emergency	300 emergency	290 emergency	290 emergency
Efficacy (lm/cctW):	110	114	119	114	114
Lifetime (hrs):	50,000	50,000	50,000	50,000	50,000
Beam Angle (deg):	140	120	140	120	140
Lux at 1m (lux):	280 standard	640 standard	590 standard	1,300 standard	800 standard
	50 emergency	90 emergency	80 emergency	80 emergency	80 emergency
CCT (K):	4000	4000	4000	4000	4000
CRI (Ra):	80	80	80	80	80
Power Factor (PF):	0.9	0.9	0.9	0.97	0.95
Impact Rating (IK):	08	08	08	08	08
Box Qty:	1	1	1	1	1
Weight (kg):	0.58	0.82	1.00	1.51	1.22

	Double	Double	Single	Double
	1.5M	1.5M	1.8M	1.8M
Standard	RHA58405FT-24	RHA80405FT-24	RHA34406FT-24	RHA70406FT-24
Comparable to:	2x58W T8	2x70W T8	1x70W T8	2x70W T8
Total Power (W):	57.3	80.2	32.8	69.6
Total Light Output (lm):	6,090 standard	8,040 standard	3,460 standard	7,120 standard
	290 emergency	300 emergency	300 emergency	300 emergency
Efficacy (lm/cctW):	106	100	105	102
Lifetime (hrs):	50,000	50,000	50,000	50,000
Beam Angle (deg):	120	120	140	120
Lux at 1m (lux):	1,790 standard	2,380 emergency	860 standard	2,070 standard
	80 emergency	80 emergency	80 emergency	80 emergency
CCT (K):	4000	4000	4000	4000
CRI (Ra):	80	80	80	80
Power Factor (PF):	0.97	0.97	0.95	0.97
Impact Rating (IK):	08	08	08	08
Box Qty:	1	1	1	1
Weight (kg):	1.78	1.83	1.66	2.66











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*2ft version only available in SEN, E and SENE

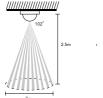
TRIDONIC

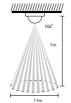
PIR FOR CAESAR, HARBOUR, SULTAN, VULCAN & ALEXANDER



360° PIR

- Suitable for use with ROBUS; CAESAR LED battens, HARBOUR, SULTAN and VULCAN LED corrosion proof fittings and ALEXANDER LED batten
- · Polycarbonate housing
- · Remote control option available
- Step dimming function only available for products with dimmable driver option





	R360PIR-01
Maximum Switching Capacity (W):	450
Warranty (yrs):	3
Detection Angle (deg):	360
IP:	65
Mounting Height Range (m):	2.5 – 7 max
Impact Rating (IK):	10
Operating Temperature (°C):	-10 ≤ Ta ≤ +40
Operating Voltage (Vac):	220-240
Default Sensitivity (%):	100
Default Hold Time (min):	5
Default Lux Switching Level:	Full Daylight
Default Standby Level Before Off (%):	20
Default Standby Time Before Off (min):	60
Box Qty:	1
Weight (kg):	0.1















PIR REMOTE CONTROL

- · Maximum remote operation of 7m
- PIR Remote control accesses the below extended sensor functionality

	R360RC-01
Detection Sensitivity (%):	100/75/50/20
Hold Time:	10sec/1min/5min/
	15min/30min/60min
Standby Level	0/10/20/30
Before Off (%):	
Standby Time	1min/30min/
Before Off:	60min/24Hrs
Lux Switching Level (lx):	50 lx
Remote Range (m):	10m Max
Memory Function:	Enter single program
	to memory button,
	to allow for rapid
	programming of
	additional sensors



DIMENSIONS(mm)	Width	Length	Depth
R360PIR-01	36	149	28
R360RC-01	52	85	10



LAZER LED VAPOUR PROOF

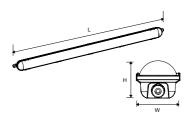


LAZER IP65 LED VAPOUR PROOF, QUICK CONNECT

- Suitable for use in wet areas, outside walkways, warehouses, storage areas, farm buildings, car parks and workshops
- Factory fitted fast-fix spring terminal connector glands reducing the possibility of poor or incorrect internal connections
- Wide operating ambient temperature range of -25°C to 40°C
- Accessory pack included comprising: stainless steel surface mounting brackets, stainless steel suspension hangers, diffuser clip securing screws, spare rubber gland plug
- Dedicated LED gear tray utilising high quality LM80 tested SMD's providing low power consumption and running costs
- Suitable for control by by PIR, Microwave or photocell sensors to provide additional energy savings



DIMENSIONS(mm)	Width	Length	Height
RLZ224012HL-24	90	1,237	75
RLZ444012HL-24	105	1,237	75
RLZ294015HL-24	90	1,540	75
RLZ294015HL-24	105	1,540	75





	Single	Double	Single	Double
	1.2M	1.2M	1.5M	1.5M
Standard	RLZ224012HL-24	RLZ444012HL-24	RLZ294015HL-24	RLZ524015HL-24
Comparable to:	1x36W T8	2x36W T8	1x58W T8	2x58W T8
Total Power (W):	22	44	29	52
Total Light Output (lm):	2,860	5,350	3,770	6,760
Efficacy (lm/cctW):	130	125	130	130
Lifetime (hrs):	50,000	50,000	50,000	50,000
Beam Angle (deg):	120	120	120	120
Lux at 1m (lux):	940	1,790	1,260	2,140
CCT (K):	4000	4000	4000	4000
CRI (Ra):	80	80	80	80
Power Factor (PF):	0.9	0.9	0.9	0.9
Impact Rating (IK):	08	08	08	08
Box Qty:	1	1	1	1
Weight (kg):	1.3	1.5	1.6	2











Triple E Registered

CHAMPION LED FLOOD LIGHT

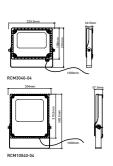


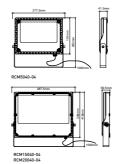




CHAMPION LED FLOOD LIGHT

- LED replacement for 50W 300W Metal Halide/ 200W-1500W Halogen flood lights
- Die cast aluminium housing providing optimal heat dissipation and high resistance to weather conditions
- · Pre-wired with 1m of rubber flex
- · Complete with stainless steel screws
- · No warm up or cool down period required by LED
- Wide operating ambient temperature range of -20°C to 40°C
- · Pre-drilled mounting bracket with 180° adjustable angle
- · Suitable for switching by external PIR, Microwave or Photocell





DIMENSIONS (mm)	Height	Width	Depth
RCM3040-04	201	235.5	34.5
RCM5040-04	262	277.5	41.5
RCM10040-04	383.5	304	57.5
RCM15040-04	418	487.5	59.5
RCM20040-04	418	487.5	59.5

CHAMPION LED FLOOD LIGHT

	30W	50W	100W	130W	170W
	RCM3030-04	RCM5030-04	RCM10030-04	RCM15030-04	RCM20030-04
Comparable to:	50W metal halide	80W metal halide	150W metal halide	250W metal halide	300W metal halide
	200W halogen	350W halogen	800W halogen	1200W halogen	1500W halogen
Total Power (W):	29.3	46.4	94.6	128.4	168.8
Total Light Output (lm)	: 3,250	5,170	10,950	16,510	21,560
Efficacy (lm/cctW):	111	110	116	129	128
Lifetime (hrs):	50,000	50,000	50,000	50,000	50,000
Beam Angle (deg):	110	110	110	110	110
Lux at 1m (lux):	1,220	1,910	4,000	5,930	7,760
CCT (K):	3000	3000	3000	3000	3000
CRI:	80	80	80	80	80
Impact Rating (IK):	07	07	07	07	07
Power Factor (PF):	0.97	0.97	0.97	0.97	0.97
Box Qty:	1	1	1	1	1
Weight (kg):	1.1	1.6	3.5	5.9	5.9

	30W	50W	100W	130W	170W
	RCM3040-04	RCM5040-04	RCM10040-04	RCM15040-04	RCM20040-04
Comparable to:	50W metal halide	80W metal halide	150W metal halide	250W metal halide	300W metal halide
	200W halogen	350W halogen	800W halogen	1200W halogen	1500W halogen
Total Power (W):	28.8	47.8	94.6	127	174.7
Total Light Output (lm)	: 3,220	5,260	11,490	18,110	24,770
Efficacy (lm/cctW):	112	110	121	143	141
Lifetime (hrs):	50,000	50,000	50,000	50,000	50,000
Beam Angle (deg):	110	110	110	110	110
Lux at 1m (lux):	1,200	1,900	4,200	6,520	8,920
CCT (K):	4000	4000	4000	4000	4000
CRI:	80	80	80	80	80
Impact Rating (IK):	07	07	07	07	07
Power Factor (PF):	0.97	0.97	0.97	0.97	0.97
Box Qty:	1	1	1	1	1
Weight (kg):	1.1	1.6	3.5	5.9	5.9







SEAI Approve



SONIC 4 LED HIGHBAY







SONIC 4 LED HIGHBAY, IP65, 1-10V DIMMABLE, BLACK

- · Suitable for use in warehouses, manufacturing plants, garages, workshops & aircraft hangars, retail superstores, gymnasium & sports halls
- · Die cast aluminium housing with tempered glass front providing high impact rating
- Wide ambient operating temperature range of -25°C to +40°C
- An integral high quality 1-10VDC dimmable constant current driver for standard on/off switching, or with optional Daylight Harvest Sensor, provides automatic daylight linked dimming to further reduce energy consumption
- · Wide operating ambient temperature range so is ideal for unheated buildings
- · Suitable for switching by external PIR, Microwave or Photocell

CONVERSIONS AVAILABLE





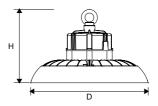


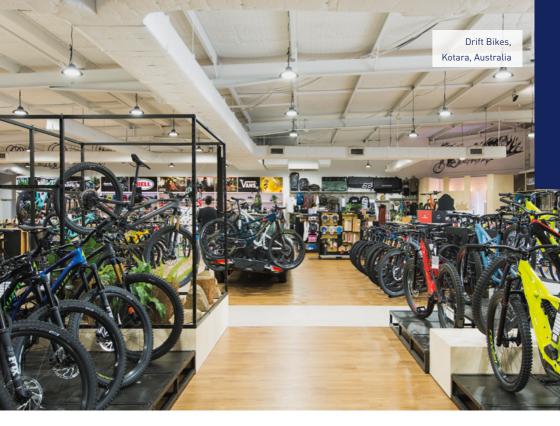


ACCESSORIES

AUG	DESSURIES	
RS	NL85-S	85° lens for 150W
RS	NPC-S	Polycarbonate Diffuser for 150W & 180W
RS	NB-S	Surface mounting bracket for 150W & 180W
RS	NWG-S	Wire guard for 150W & 180W
RD	LHRV-HMW32S	Daylight harvest sensor, 1-10V dimming
RR	RD360MW-01	RADAR 360° MW sensor with 3 step dimming
HF	RC-11	Remote Control for Daylight Harvest Sensor
PR	RPIRMW-HIM31S	Daylight harvest Sensor (PIR & MW), 1-10V dimming
RS	NL60-M	SONIC4 60 DEGREE LENS ACC FOR 150W HIGH BAY
RS	NL90-M	SONIC4 90 DEGREE LENS ACC FOR 150W HIGH BAY
RS	NB4-S	SONIC4 SURFACE MOUNTING BRACKET ACC FOR
		100W & 150W HIGH BAY
RS	NWG4-M	SONIC4 WIRE GUARD ACC FOR 150W HIGH BAY

DIMENSIONS(mm)	Diameter	Height
RSN10050DAS4-04	272	189
RSN15050DAS4-04	330	215
RSN18050DAS4-04	330	206





	RSN10050DAS4-04	RSN15050DAS4-04	RSN18050DAS4-04
Comparable to:	200W metal halide	300W metal halide	400W metal halide
Total Power (W):	97.2	143.8	192.8
Total Light Output (lm):	13,510	19,130	27,140
Efficacy (lm/cctW):	139	133	141
Lifetime (hrs):	50000	50000	50000
Beam Angle (deg):	110	110	110
Lux at 1m (lx):	4,770	6,750	9,580
CCT (K):	4000	4000	4000
Impact Rating (IK):	09	09	09
Power Factor (PF):	0.95	0.98	0.98
Box Qty:	1	1	1
Weight (kg):	2.79	4.25	4.25









ECA eligible SEAI Approved

220 IP PHOTO ACTRICS — L2





PRISMOID LED LINEAR HI-RACK



PRISMOID LED LINEAR HI-RACK, ALUMINIUM

- For use in warehouses, manufacturing plants, garages, workshops & aircraft hangars, retail superstores, gymnasium & sports halls
- Extruded aluminium housing provides optimal heat dissipation for long LED life
- . PMMA lens for accurate beam angle control and light uniformity
- Wide ambient operating temperature range of -25°C to +40°C
- An integral high quality 1-10VDC dimmable constant current driver for standard on/off switching, or with optional Daylight Harvest Sensor, provides automatic daylight linked dimming to further reduce energy consumption
- Suitable for switching/dimming by external PIR, Microwave or Photocell

CONVERSIONS AVAILABLE



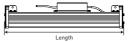




ACCESSORIES

RPDRB	Surface mounting, rotating, brackets
RPDL90	90° lens accessory
RPDL40130	40x130 Degree Lens Accessory
RSW44-P	IP20 SWIFT connector
RCONIP68-04	IP68 connector
RDLHRV-HMW32S	Daylight harvest sensor, 1-10V dimming
RRD360MW-01	RADAR 360° MW sensor with 3 step dimming
HRC-11	Remote Control for Daylight Harvest Sensor
PRPIRMW-HIM31S	Daylight harvest Sensor (PIR & Microwave 1-10V)

DIMENSIONS(mm)	Width	Length	Depth
RPD10050DA-23	130	590	125
RPD12050DA-23*	130	590	125
RPD15050DA-23*	130	880	125
RPD18050DA-23	130	880	125
RPD20050DA-23	130	1,180	125
RPD24050DA-23	130	1,180	125
RPD30050DA-23	270	880	125
RPD40050DA-23	270	1,180	125
RPD60050DA-23	405	1,180	125





PRISMOID LED LINEAR HI-RACK

	100W	120W	150W	180W	200W
	RPD10050DA-23	RPD12050DA-23*	RPD15050DA-23*	RPD18050DA-23	RPD20050DA-23
Comparable to:	200W MH	250W MH	300W MH	400W MH	400W MH
Total Power (W):	100.2	118.4	148.2	179.3	201.2
Total Light Output (lm)	12,940	16,160	19,940	22,250	26,490
Efficacy (lm/cctW):	129	136	135	124	132
Lifetime (hrs):	50,000	50,000	50,000	50,000	50,000
Beam Angle (deg):	30 x 70	30 x 70	30 x 70	30 x 70	30x70
Lux at 10m (lux):	210	250	310	350	420
CCT (K):	5000	5000	5000	5000	5000
CRI (Ra):	75	75	75	75	75
Power Factor (PF):	0.99	0.99	0.99	0.99	0.99
Impact Rating (K):	10	10	10	10	10
Weight (kg):	4	4	5	5	7

^{*}Note: RPD12050DA-23 and RPD15050DA-23 kept in stock, other wattages ordered on demand.

	240W	300W	400W	600W
	RPD24050DA-23	RPD30050DA-23	RPD40050DA-23	RPD60050DA-23
Comparable to:	500W MH	600W MH	800W MH	1000W MH
Total Power (W):	240	300	400	600
Total Light Output(lm):	31,000	39,000	52,000	78,000
Efficacy (lm/cctW):	130	130	130	130
Lifetime (hrs):	50,000	50,000	50,000	50,000
Lux at 10m (lux):	480	610	780	1,170
Beam Angle (deg):	30 x 70	30 x 70	30 x 70	30 x 70
CCT (K):	5000	5000	5000	5000
CRI (Ra):	75	75	75	75
Power Factor (PF):	99	0.99	0.99	0.99
Impact Rating (K):	10	10	10	10
Weight (kg):	7	11	15	22













*DALI DIM only available in 120W and 150W





KINGSTON LED LOW BAY





KINGSTON LED LOW BAY, IP20, 1-10V DIMMABLE, WHITE

- Suitable for use in manufacturing plants, work stations, warehouses, workshops, shopping arcades
- Quality construction materials with powder coated steel body and polycarbonate lens and end caps
- Dual row LED design providing efficient light distribution and uniformity.
- Wide ambient temperature operating range of -20°C to +40°C
- Available with 1-10VDC driver as standard or 120W version includes 1-10VDC driver and integral 800W LED rated microwave sensor with 3-step dimming

CONVERSIONS AVAILABLE



ACCESSORIES

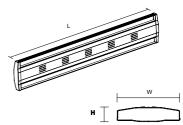
RKNL60	60° lens accessory for 70W,120W & 150W
RKNL90	90° lens accessory for 70W,120W & 150W
RKNOPL	Opal lens accessory for 70W,120W & 150W
RKNLB-01	Linking bracket accessory
RDLHRV-HMW32S	Daylight Harvest Sensor, 1-10V dimming
RRD360MW-01	Radar 360° MW Sensor with 3 step dimming
HRC-11	Remote Control for Daylight Harvest Sensor
PRPIRMW-HIM31S	Daylight harvest Sensor [PIR & Microwave 1-10V]

3 STEP-DIMMING:

132

- SENSOR MAX DETECTION RANGE OF 12M AT MAXIMUM MOUNTING HEIGHT OF 6M
- ADJUSTABLE LUX SETTINGS OF 2-50LX OR DISABLED
- ADJUSTABLE TIME DELAY OF 10S TO 1HR OR DISABLED

DIMENSIONS(mm)	Width	Length	Height
RKN7050DA-01	208	1,207	47
RKN12050DA-01	208	1,207	47
RKN12050DP-01	208	1,207	47
RKN15050DA-01	208	1,207	47





1-10V Dimmable	RKN7050DA-01	RKN12050DA-01	RKN15050DA-01
MW Sensor with 3 step dimming	N/A	RKN12050DP-01	N/A
Emergency	RKN7050DA-01E	RKN12050DA-01E	RKN15050DA-01E
Comparable to:	4x36W T8	4x49W T16	6x49W T16
Total Power (W):	71.9	122.9	146.5
Total Light Output (lm):	9,240	14,870	17,980
Emergency Mode Light Output (lm):	630	630	630
Efficacy (lm/cctW):	129	121	123
Lifetime (hrs):	50,000	50,000	50,000
Beam Angle (deg):	110	110	110
Lux at 1m (lux):	4,110	6,620	8,350
Emergency Mode Lux at 1m (lux):	280	280	280
CCT (K):	5000	5000	5000
CRI (Ra):	80	80	80
Power Factor (PF):	0.95	0.95	0.95
Impact Rating (IK):	08	08	08
Box Qty:	1	1	1
Weight (kg):	4.39	4.7	4.85



Triple E Registered

FALCON LED WALL LIGHT



FALCON LED WALL LIGHT

- · Suitable for use in indoor and outdoor parking areas, tunnels, walkways, building entrances, loading bays, fire assembly points
- · Die cast aluminium housing providing optimal heat dissipation and high resistance to weather conditions
- · Polycarbonate opal diffuser and stainless steel screws
- · Pre-wired with 1.5m of rubber flex
- Wide operating ambient temperature range of -25°C to +40°C
- · Suitable for switching by external PIR, Microwave or Photocell
- . Microwave sensor version has adjustable time delay 10sec to 12 min and lux level settings 3-2000lx
- · 3 hour emergency version available through Conversions

CONVERSIONS AVAILABLE

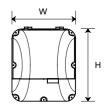


DIMENSIONS (mm)	Width	Height	Depth
RFA03555-04	265	300	180
RFA05055-04	265	300	180

Daylight White

	35W	50W
Standard	RFA03555-04	RFA05055-04
Photocell	RFA03555DH-04	RFA05055DH-04
Comparable to:	50W Metal Halide	80W Metal Halide
Total Power (W):	31.1	53.2
Total Light Output (lm):	3,240	5,380
Efficacy (lm/cctW):	104	101
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	120	120
Lux at 1m (lux):	410	1,040
CCT (K):	5500	5500
CRI (Ra):	75	75
Power Factor (PF):	0.95	0.95
Impacting Rating (IK):	06	06
Weight (kg):	3.0	3.4





Note: 50W available with back wire entry

RFA05055X-04 50W Standard with back

wire entry

RFA05055DHX-04 50W Photocell with back

wire entry













*3SD option only available in 35W



FALCON LED WALL LIGHT

STREEX LED STREET LIGHT



STREEX LED STREET LIGHT, GREY

- Suitable for use in public or private roads, hotel drives & car parks
- Body is made of die cast aluminium with an extra corrosion resistant powder coating
- Standard stock is a wide S class beam which reduces number of columns required and prevents "sky glow" unlike SOX and SON fittings
- Wide operating ambient temperature range of -25°C to +40°C
- Spirit level included to highlight any leaning columns, making substantial installation time savings
- · Can be side or column-top mounted
- . 90W 240W versions can be ordered on demand

ACCESSORIES		DIMENSIONS(mm)	Width	Length	Depth
RSE-PC*	5-PIN NEMA Photocell	RSE3540S-25* - RSE12040S-25	305	691	134
		RSE15040S-25 - RSE24040S-25	385	829	172

	35W	60W	90W	120W
	RSE3540S-25*	RSE6040S-25*	RSE9040S-25	RSE12040S-25
Total Power (W):	34.9	62.3	91.7	114.7
Total Light Output (lm):	4,140	7,500	9,600	13,590
Efficacy (lm/cctW):	118	121	105	115
Lifetime (hrs):	50,000	50,000	50,000	50,000
Lux at 1m (lux):	860	1,500	2,340	4,120
CCT (K):	4000	4000	4000	4000
CRI:	75	75	75	75
IP:	66	66	66	66
Impact Rating (K):	08	08	08	08
Power Factor (PF):	0.99	0.99	0.99	0.99
Weight (kg):	7.4	7.4	9.0	9.2

^{*}Note: 35W RSE3540S-25, 60W RSE6040S-25 and 5-PIN NEMA photocell kept in stock, all other wattages ordered on demand.

STREEX LED STREET LIGHT

1. HOUSING

The canopy & frame are made of anti-corrosion die-cast aluminium. RAL7037 grey as standard. Black and other RAL colours available on request

2. 5 PIN NEMA SOCKET TO ALLOW FOR PHOTOCELL

35W STREEX is kept in stock and comes complete with 5 pin NEMA socket and waterproof cap Photocell can be ordered as an accessory - Code: RSE-PC All other wattages can be ordered on demand with choice of: NEMA socket and waterproof cap NEMA socket and Photocell, or without

3. HIGH QUALITY SAMSUNG LEDS Fully integrated LED system that

provides optimal lumen output and thermal management for longer LED rated life

4. BEAM ANGLE LENS CONFIGURATIONS

S class lens available as standard. Other options available

5. STAINLESS STEEL HINGED HOI DER

Allows for hands & tool free installation

6. BREATHE HOLE

Helps to keep the thermal management of the fitting by balancing the internal and exterior temperature of the fitting preventing condensation build up on glass cover

7. TEMPERED GLASS COVER LENS

Prevents upward light to G5 glare classification and downward light to between G2 and G3 glare classification to BS EN 13201-2 2015

8. PHILLIPS XITANIUM 1-10V DRIVER

Providing high light output to match traditional lighting sources with energy savings of 50%

9. SURGE PROTECTION DEVICE

Surge protection device that acts as an additional defence to damage from power surges

10. CABLE CONNECTION

M16 cable gland with strain relief. Pre-wired with 10m of 3 core H05RR-F rubber flex

11. SPIRIT LEVEL

Makes head & beam alignment easier and compensates for misaligned columns

12. ADJUSTABLE SPIGOT MOUNT Allows for side or column-

top mounting and head fine adjustment in the horizontal or vertical position



13. 4 X STAINLESS STEEL M10

positioning of the fitting

14. TWO SIDE RETAINING CLIPS

Creating a sturdy and secure

Canopy doesn't get blown open

by strong winds or vibration

Creating a durable protective

seal against excessive dust and

MOUNTING BOLTS

15. IP66 SILICONE GASKET

moisture

	150W	200W	240W
	RSE15040S-25	RSE20040S-25	RSE24040S-25
Total Power (W):	143.3	197.9	230.4
Total Light Output(lm):	17,090	22,120	27,760
Efficacy (lm/cctW):	119	112	120
Lifetime (hrs):	50,000	50,000	50,000
Lux at 1m (lux):	5,120	6,740	8,210
CCT (K):	4000	4000	4000
CRI:	75	75	75
IP:	66	66	66
Impact Rating (K):	08	08	08
Power Factor (PF):	0.99	0.99	0.99
Weight (kg):	12	12.5	13











ECA eligible SEAI Approved





STREEX LED STREET LIGHT



DOWNLIGHTS

ы	D	Е.	D	Λ-	1	г

STARLING PREMIUM FIRE RATED	143
TRIUMPH ACTIVATE™ LED FIRE RATED	146
RAMADA LED FIRE RATED	154
ULTIMUM LED FIRE RATED	156
NON-FIRE RATED	1.6000
CAVAN LED CCT3 SELECTABLE	162
CAVAN LED CCT3 SELECTABLE, TILT	163
CAVAN LED	164
TAYLOR LED CCT3 SELECTABLE	166
STUDIO LED CCT3 SELECTABLE	168
MORPH LED CCT3 SELECTABLE	170
VIRTUE LED DOWNLIGHT	172
SUN CIRCULAR LED PANEL	174
GRANADA UGR≼19 LED	176
DEXTER LED	178
WILSON LED WALL WASHER	180
RIDA MAINS VOLTAGE	181
SALLY MAINS VOLTAGE	182
ZAK MAINS VOLTAGE	183
ROCKSTAR LED WALL WASHER	184



WHY CHOOSE ROBUS FIRE RATED FITTINGS?

ROBUS offers a complete range of fire rated downlights, all of which fulfil building construction regulations and have full independent certification for fire protection of:

- All ceiling construction types
- 30, 60 and 90 minutes

30 MINS

A 30 minute fire rated ceiling has the joists spaced at 600mm centres and uses a single layer of 12.5mm gypsum board.

30 minute fire rated ceilings are the most common and are used in 2-storey buildings, flats and maisonettes.

60 MINS

A 60 minute fire rated ceiling has the joists spaced at 600mm centres and uses two layers of 15mm gypsum board.

90 MINS

A 90 minute fire rated ceiling has the joists spaced at 450mm centres and uses two layers of 15mm gypsum board.

ROBUS FIRE RATED SOLUTIONS ARE AVAILABLE IN:

DESCRIPTION	W	TYPE	ORIENTATION	DIMMABILITY	IP	PAGE
STARLING PREMIUM RANGE	50W	Mains voltage	Straight and	Dimmable	IP20	P age 143
STARLING SHOWER	50W	Mains voltage Directional	Straight	LEDC	IP65	Page 145
TRIUMPH ACTIVATE™	6W, 8W	LED	Straight	Dimmable	IP65	Page 146
TRIUMPH ACTIVATE TILT	6W	LED	Directional	Dimmable	IP65	Page 150
RAMADA	8.5W	LED	Straight	Dimmable	IP65	Page 154
ULTIMUM	5W, 7W	LED	Straight	Dimmable	IP65	Page 156

STARLING PREMIUM FIRE RATED





STARLING 50W MAINS VOLTAGE DIE CAST FIRE RATED DOWNLIGHT

- Recessed straight downlights with pressed steel body and die cast aluminium front bezel
- These fittings meet the requirements of Part B of the Building Regulations and have tested in solid timber construction 30, 60 and 90 minute ceiling types
- Fitting design and intumescent seals retain the integrity of 30, 60, 90
 minute fire rated ceiling/floor constructions
- Complies with BS476 Part 21. Report and certificate from INTERNATIONAL FIRE CONSULTANTS (IFC)
- Compatible with LED, dichroic and aluminium lamp types
- Improved terminal block for loop in loop out

Mains Voltage	GU/GZ10
White	RSF201-01
Chrome	RSF201-03
Brushed Chrome	RSF201-13
Total Power (W):	50
Cap Type:	GU10
Box Qty:	10
Weight (kg):	0.25

















STARLING PREMIUM FIRE RATED





STARLING 50W MAINS VOLTAGE DIE CASE FIRE RATED DOWNLIGHT, DIRECTIONAL

- Recessed directional downlights with pressed steel body and die cast aluminium front bezel
- These fittings meet the requirements of Part B of the Building Regulations and have tested in solid timber construction 30, 60 and 90 minute ceiling types
- Fitting design and intumescent seals retain the integrity of 30, 60, 90 minute fire rated ceiling/floor constructions
- Complies with BS476 Part 21. Report and certificate from INTERNATIONAL FIRE CONSULTANTS (IFC)
- · Compatible with LED, dichroic and aluminium lamp types
- Improved terminal block for loop in loop out

Mains Voltage GU/GZ10
RSF208-01
RSF208-03
RSF208-13
50
GU10
10
0.32















STARLING PREMIUM FIRE RATED





STARLING IP65 MAINS VOLTAGE FIRE RATED DOWNLIGHT, SHOWER

- Recessed downlights with pressed steel body and die cast aluminium front bezel
- These fittings meet the requirements of Part B of the Building Regulations and have tested in solid timber construction 30, 60 and 90 minute ceiling types
- IP65 for use in wet areas such as bathrooms, showers, changing rooms or other wet environments
- Fitting design and intumescent seals retain the integrity of 30,60,90 minute fire rated ceiling/floor constructions
- Complies with BS476 Part 21. Report and certificate from INTERNATIONAL FIRE CONSULTANTS (IFC)
- · Compatible with LED, dichroic and aluminium lamp types
- Class I construction

	Mains Voltage GU/GZ10
White	RSF20165-01
Chrome	RSF20165-03
B Chrome	RSF20165-13
Total Power:	50
Cap Type:	GU10
Box Qty:	10
Weight (kg):	0.31

 DIMENSIONS (mm)
 Diameter Depth
 Cut-out

 RSF20165-01/03/13
 91
 125
 76















TRIUMPH ACTIVATE™ LED



Integrated insulation stand-off allows insulation material to be laid directly over fitting avoiding cold spots and providing sufficient air gap for fitting to operate reliably

Wide flange with short narrow main body

6W version is only 63mm in depth, ideal for shallow ceiling voids

LEDCHROIC™

6W & 8W supplied with LEDCHROIC™ 38° optic. Optional LEDCHROIC™ 60° optic available as accessory. 11W supplied with LEDCHROIC™ 60° optic. Optional LEDCHROIC™ 38° optic available as accessory

TWISTNLOCK

Supplied with a high quality white twist and lock detachable bezel. Range of Matte Black, Matte White, Chrome, Brushed Chrome, Brass and Antique Brass bezels available as accessories



Pre-wired with ROBUS SWIFT 4 pin male/female plug & play connector

Large terminals and integrated cable restraint

DIMMABLE

Dimmable as standard

COB * * * * * ChipOnBoard DOB * * * * * *

ACTIVATE True Driver on Board technology

No electrolytic capacitor

A uniquely combined DOB and COB downlight

Exceeds Part L1 and Part L2







30, 60, 90 minute fire rated IP65

CRI 80



≥90 luminaire lm/cctW



TRIUMPH ACTIVATE™ LED FIRE RATED



TRIUMPH ACTIVATE™ LEDCHROIC DOWNLIGHT

- True ACtivate Driver-On-Board (DOB) mains operated technology
 providing dimmability, driver efficiency and reliability (no
 electrolytic capacitor)
- Pre-wired with ROBUS SWIFT 4 pin male/female plug & play connector with large terminals and integrated cable restraint
- Chip-On-Board (COB) for superb light output, high efficiency and long life
- Efficacy of >83 luminaire lm/cctW to comply with Part L1 & L2 UK Building Regulations
- Interchangeable LEDCHROIC lens system achieving unequalled light distribution, uniformity and clarity
- Interchangeable trim bezel system allows fitting of six accessory trim colours – allows fitting of 60° lens accessory
- Fire, acoustic and airflow tested in compliance with Parts B, C & E of UK Building Regulations

CONVERSIONS AVAILABLE



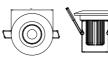


ACCESSORIES

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
RATRTRIM-02	Brass Trim
RATRTRIM-03	Chrome Trim
RATRTRIM-10	Matte Black Trim
RATRTRIM-11	Matte White Trim
RATRTRIM-13	Brushed Chrome Trim
RATRTRIM-14	Antique Brass Trim
RATRLENS60	60 deg LEDCHROIC™ LENS for 6W & 8W
RLA400DT	LOADPRO 3W Min to 150W Max LED Dimmer
RTED/4/TP60/240WC	Plug & Play Emergency Pack
RATRLENS38	60 deg LEDCHROIC™ LENS for 11W

Brass	Brushed Chrome	Matte Black	Chrome
0	0	0	0

DIMENSIONS (mm)	Diameter	Depth	Cut-ou
RATR6P03038-01	91.5	63	70
RATR8P03038-01	91.5	98	70
RATR0113060-01	91.5	100	70
RATR0114060-01	91.5	100	70







TRIUMPH ACTIVATE™ LED FIRE RATED





Warm White			
	6W	8W	11W
Standard	RATR6P03038-01	RATR8P03038-01	RATR0113060-01
No Connector	RATR6P03038NC-01		
Comparable to:	50W Halogen	18W PL	26W PL
Total Power (W):	5.6	7.6	10.7
Total Light Output (lm):	530	670	1,000
Efficacy (lm/cctW):	95	89	94
Lifetime (hrs):	50,000	50,000	50,000
Lux at 1m (lux):	880	1,230	1,020
Beam Angle (deg):	38	38	60
CCT (K):	3000	3000	3000
CRI (Ra):	80	80	80
Power Factor (PF):	>0.9	>0.9	>0.98
Min Order/Carton Qty:	1/18	1/18	1/18
Weight (kg):	0.27	0.32	0.41

Neutral White			
	6W	8W	11W
Standard	RATR6P04038-01	RATR8P04038-01	RATR0114060-01
No Connector		RATR6P04038NC-01	
Total Light Output (lm):	530	730	1030
Efficacy (lm/cctW):	87	88	92
Lux at 1m (lux):	930	1,280	990
CCT (K):	4000	4000	4000











SEAI Approved











TRIUMPH ACTIVATE™ TILT LED FIRE RATED



TRIUMPH ACTIVATE™ TILT LEDCHROIC 6W DOWNLIGHT

- · Adjustable tilt of 24°
- Pre-wired with ROBUS SWIFT 4 pin male/female plug & play connector with large terminals and integrated cable restraint
- True ACtivate Driver-On-Board (DOB) mains operated technology

 providing dimmability, driver efficiency and reliability (no electrolytic capacitor)
- . Chip-On-Board (COB) for superb light output, high efficacy & long life
- LEDchroic optic & reflector achieving unequalled light distribution, uniformity and clarity, whilst replicating traditional dichroic aesthetics
- Dimmable with selected dimmers. Compatibility list available on website
- Operating temperature range of -20°C to +35°C
- · 850°C glow wire tested

ACCESSORIES

RATTTRIM-13 Brushed chrome trim set

RATRLENS60 92 LEDCHROIC™ lens with 60° beam angle RLA400DT LOADPRO 3W Min to 150W Max LED Dimmer

RBF230/4/M3WC Emergency Pack



SEAI Approved

CONVERSIONS AVAILABLE



DIMENSIONS (mm)	Diameter	Depth	Cut-out
RATT6P03038-01	104	95	89
RATT6P04038-01	104	95	89





	RATT6P03038-01	RATT6P04038-01
Comparable to:	50W Halogen	50W Halogen
Total Power (W):	6	6
Total Light Output (lm):	450	490
Efficacy (lm/cctW):	75	80
Lifetime (hrs):	50,000	50,000
Lux at 1m (lux):	850	900
Beam Angle (deg):	38	38
CCT (K):	3000	4000
CRI (Ra):	80	80
Output Current (mA):	26	26
Power Factor (PF):	>0.98	>0.98
Box Qty:	1	1
Weight (kg):	0.4	0.4



Triple E registered

LEDCHROIC[™]







RAMADA LED FIRE RATED





RAMADA 8.5W LED FIRE RATED DOWNLIGHT

- . 30, 60 and 90-minute fire tested
- . Complete with 3-way terminal block with large terminals for loop in loop out
- Integrated insulation frame enabling insulation to be laid over
- Wide operating ambient temperature range of -20°C to +40°C
- · Recessed LEDCHROIC lens design for low glare
- Suitable for switching by external PIR, Microwave or Photocell
- . Dimmable with selected leading & trailing edge dimmers

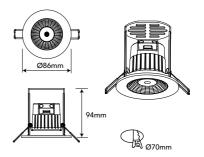
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RRATRIM-13 Brushed Chrome Trim

LOADPRO 3W Min to 150W Max LED Dimmer RLA400DT

DIMENSIONS (mm)	Diameter	Cut-out	Depth
RRA083060-01	86	70	94
RRA084060-01	86	70	94

	RRA083060-01	RRA084060-01
Comparable to:	50W LV Halogen	50W LV Halogen
Total Power (W):	6.6	6.7
Total Light Output (lm):	590	640
Efficacy (lm/cctW):	90	97
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	60	60
Lux at 1m (lux):	620	650
CCT (K):	3000	4000
CRI (Ra):	80	80
Power Factor (PF):	0.9	0.9
Weight (kg):	0.3	0.3
Box Qty:	1	1

























SEAI Approved

RAMADA LED FIRE RATED



- 1. TRIM OPTIONS

 C/W WHITE AND BRUSHED

 CHROME TRIMS, POLISHED

 CHROME TRIM AVAILABLE AS

 ACCESSORY (RRATRIM-03)
- 4. REFLECTOR
 ENSURES ALL THE LIGHT FROM
 THE LENS IS GUIDED OUTWARDS
- 7. HEAT SINK

 DESIGNED FOR THERMAL

 MANAGEMENT OF LED CHIP
- 2. SINGLE SPRING CLIPS
 DESIGNED FOR FAST
 INSTALLATION WHILST AVOIDING
 DAMAGE TO THE CEILING
- 5. LENS PROVIDES 60° BEAM ANGLE
- 8. CONNECTOR BLOCK
 WITH LARGE TERMINALS, IDEAL
 FOR LOOP IN LOOP OUT

- 3. SILICON SEAL TO ENSURE IP65 PROTECTION
- 6. LED HIGH QUALITY COB LED
- 9. INTEGRATED INSULATION GUARD ENSURES SUFFICIENT GAP FOR AIR

ULTIMUM LED FIRE RATED



ULTIMUM LED FIRE RATED DOWNLIGHT

- Strong padded spring steel retaining springs allows downlight to fit tight to ceiling
- Aluminium heat sink provides excellent heat management for long life
- High initial light output comparable to Halogen for maximum fitting utilisation and low lumen depreciation over time for long LED life
- High efficiency driver compatible with many approved trailing and leading edge dimmers for effective mood or task lighting control
- These fittings meet the requirements of Part B of the Building Regulations and have tested in solid timber construction 30, 60 and 90 minute ceiling types

CONVERSIONS AVAILABLE





ACCESSORIES

RULTRIM-03	ULTIMUM trim, Chrome
RULTRIM-10	ULTIMUM trim, Matte Black
RULTRIM-13	ULTIMUM trim, Brushed Chrome
RLA400DT	LOADPRO 3W Min to 150W Max LED Dimmer

Chrome	Matte Black	Brushed Chrome
O	0	0

DIMENSIONS (mm)	Diameter	Depth	Cut-out	Pro
RUL0530-01	85	60	72	3
RUL0540-01	85	60	72	3
RUL0730-01	85	60	72	3
RUL0740-01	85	60	72	3
RUL07X0-01	85	60	72	3
RUL05X0-01	85	60	72	3







ULTIMUM LED FIRE RATED



	RUL0530-01	RUL0540-01	RUL0730-01	RUL0740-01
Comparable to:	50W mains	50W mains	50W LV halogen	50W LV halogen
Total Power (W):	4.7	4.7	6.7	6.7
Total Light Output (lm):	410	440	630	660
Efficacy (lm/cctW):	87	94	94	99
Lifetime (hrs):	30,000	30,000	30,000	30,000
Beam Angle (deg):	60	60	60	60
Lux at 1m (lux):	390	420	750	770
CCT (K)	3000	4000	3000	4000
CRI:	80	80	80	80
Power Factor (PF):	0.9	0.9	0.9	0.9
Box Qty:	1	1	1	1
Weight (kg)	0.24	0.24	0.24	0.24

CCT3 COLOUR SELECTABLE

	RUL05X0-01	RUL07X0-01
Comparable to:	50W LV halogen	50W main
Total Power (W):	4.7/4.6/4.9	6.8/6.6/6.8
Total Light Output (lm):	400/450/420	520/610/550
Efficacy (lm/cctW):	86/99/88	77/94/83
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	60	60
Lux at 1m (lux):	280/310/290	670/700/570
CCT (K)	3000/4000/6000	3000/4000/6000
CRI:	80	80
Power Factor (PF):	0.9	0.9
Box Qty:	1	1
Weight (kg)	0.24	0.24

















Triple E Registered



ULTIMUM LED
FIRE RATED DOWNLIGHT



CAVAN TILT LED CCT3 SELECTABLE

CCT3 COLOUR TEMPERATURE SELECTABLE







WARM WHITE 1500K - 3500K

NEUTRAL WHITE 3500K - 4500K

COOL / DAYLIGHT WHITE 4500K - 5500K

ROBUS CCT3 COLOUR TEMPERATURE SELECTABLE PRODUCTS THREE COLOUR TEMPERATURE SELECTABLE (CCT3):

This has benefits to the wholesaler, installer and end user as it allows the Colour Temperature to be selected on-site at the time of installation or changed retrospectively after installation to a preferred warmer or cooler light colour appropriate for the task and use of the lit space or to compliment decor colour. Having this option in one fitting reduces the need to stock several products.



ULTIMUM LED CCT3



TAYLOR LED CCT3



CAVAN + CAVAN TILT LED CCT3



MORPH LED CCT3



STUDIO LED CCT3



CAVAN LED CCT3 SELECTABLE



CAVAN 8W COB LED CCT3 SELECTABLE

- . Die cast aluminium housing with polycarbonate trim and PC lens
- · Suitable to be loosely covered with solid or lay-over insulation
- · Large screw terminals allowing loop-in/loop-out
- · Wide operating ambient temperature range of -20°C to +40°C
- · Suitable for switching by PIR, Microwave or Photocell
- Dimmable with selected leading and trailing edge dimmers. Compatibility list available on website
- · 850°C glow wire tested

CONVERSIONS AVAILABLE





CCT Selectable
RC8CCT3-01
RC8CCT3-13
50W Halogen
7.9/7.7/7.9
710/820/810
90/107/103
50,000
38
950/1,100/1,090
3000/4000/6500
80
0.8
1
0.17

Note: Multiple CCT data shown in format WW/NW/DW





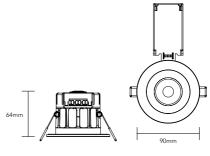






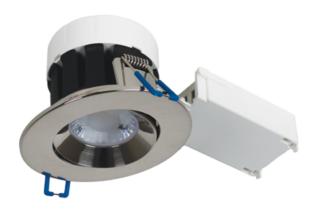
SEAI Approved

DIMENSIONS (mm) Diameter Cut-out Depth Proj RC8CCT3-01/13





CAVAN LED CCT3 SELECTABLE, TILT



CAVAN TILT 6.5W COB LED CCT3 SELECTABLE

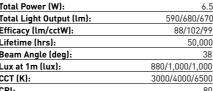
- Adjustable tilt of 25°
- · Available with white or brushed chrome trim
- · Die cast aluminium housing with polycarbonate trim and high temperature resistance PC lens
- · Suitable to be loosely covered with solid or lay-over insulation
- · Large screw terminals allowing loop-in/loop-out
- · Quick connect driver for faster installation
- Wide operating ambient temperature range of -20°C to +40°C
- · Suitable for switching by external PIR, Microwave or Photocell

		I ARI F	





White	RCT6CCT3-01
Brushed Chrome	RCT6CCT3-13
Comparable to:	50W Halogen
Total Power (W):	6.5
Total Light Output (lm):	590/680/670
Efficacy (lm/cctW):	88/102/99
Lifetime (hrs):	50,000
Beam Angle (deg):	38
Lux at 1m (lux):	880/1,000/1,000
CCT (K):	3000/4000/6500
CRI:	80
Power Factor (PF):	0.8
Box Qty:	1
Weight (kg):	0.2





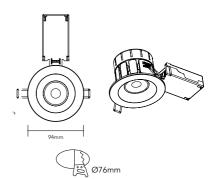








DIMENSIONS (mm) Diameter Cut-out Height Proj RCT6CCT3-01/13 94 62 3



CAVAN LED



CAVAN 8W COB LED DOWNLIGHT, IP44, DIMMABLE

- Die cast aluminium housing with polycarbonate diffuser
- CCT selectable to provide Warm, Neutral or Daylight white light colour appropriate to the use of the area
- · Large screw terminals allowing loop-in/loop-out
- · Quick connect driver for faster installation
- Wide operating ambient temperature range of -20°C to +40°C
- · Dimmable with selected leading and trailing edge dimmers
- · Dimmer compatibility list available on website

CONVERSIONS AVAILABLE



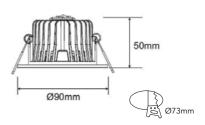


DIMENSIONS (mm)	Diameter	Cut-out	Depth
RC8WDLDWW-01	90	73	50
RC8WDLDCW-01	90	73	50



164





CAVAN LED



	Warm White	Neutral White
White	RC8WDLDWW-01	RC8WDLDCW-01
Comparable to:	50W	50W
Total Power (W):	8.6	8.7
Total Light Output (lm):	780	850
Efficacy (lm / cctW):	97	99
Lifetime (hrs):	35,000	35,000
Beam Angle (deg):	38	38
Lux at 1m (lx):	1,200	1,250
CCT (K):	3000	4000
CRI:	80	80
Power Factor (PF):	>0.9	>0.9
Box Qty:	1	1
Weight (kg):	0.3	0.3



















TAYLOR LED CCT3 SELECTABLE



TAYLOR 7W LED CCT3 SELECTABLE

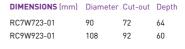
- C/w white and brushed chrome trims
- Colour temperature can be selected on completion for best light colour to suit the task area and décor of the lit space.
- It can also be changed quickly and simply if décor or use of the area is changed in the future.
- · Pre-wired with 0.25m of flex and push-in connector
- Wide operating ambient temperature range of -20°C to +40°C
- Suitable to be loosely covered with solid or lay-over insulation
- · Polycarbonate body & diffuser
- Dimmable with selected leading & trailing edge dimmers. Compatibility list available on website
- 850°C glow wire tested

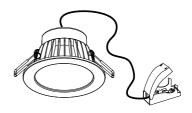
ACCESSORIES

• Meets RT2012 regulation for acoustics

RC7TRIMX-04	Circular trim for 72mm cut out, Black for RC7
RC72TRIM-01	Extension trim to 92mm cut out, White for RC7
RC72TRIM-13	Extension trim to 92mm cut out, B. Chrome for RC7
RC7SQTRIM-01	Square trim for 72mm cut out, White for RC7
RC7SQTRIM-13	Square trim for 72mm cut out, Brushed Chrome for RC7

Black	Brushed Chrome
0	
Square White	Square Brushed Chrome
	0







	RC7W723-01	RC9W923-01
Comparable to:	50W Halogen	50W Halogen
Total Power (W):	6.7	7.2/7.1/7.2
Total Light Output (lm):	570/620/610	650/730/700
Efficacy (lm/cctW):	85/92/91	92/104/98
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	100	100
Lux at 1m (lux):	250/300/270	280/310/300
CCT (K):	3000/4000/6500	3000/4000/6500
CRI:	80	80
Power Factor (PF):	0.9	0.8
Box Qty:	1	1
Weight (kg):	0.22	0.28











Note: Multiple CCT data shown in format WW/NW/DW

STUDIO LED CCT3 SELECTABLE





STUDIO LED CCT3 SELECTABLE DIMMABLE DOWNLIGHT

- . The fitting can be surface mounted using the standard bracket, or using the sliding spring system, surface mounted OVER an existing hole cut-out
- · Adjustable stainless steel mounting bracket allowing mounting in cut outs of Ø55-250mm
- · Colour temperature can be selected on completion for best light colour to suit the task area and décor of the lit space
- . It can also be changed quickly and simply if décor or use of the area is changed in the future
- LED replacement for 13W to 2 x 26W PL fluorescent downlights
- · Magnetically attached trims allow fast and simple replacement of accessory trim colours to match or contrast décor
- Prewired with 170mm flex
- Operating ambient temperature of -20°C to +40°C
- · Suitable for switching by PIR, Microwave or Photocell

ACCESSORIES

RSD6TRIM-04	Matt Black Trim Accessory
RSD6TRIM-13	Brushed Chrome Trim Accessory
RSD12TRIM-04	Matt Black Trim Accessory
RSD12TRIM-13	Brushed Chrome Trim Accessory
RSD18TRIM-04	Matt Black Trim Accessory
RSD18TRIM-13	Brushed Chrome Trim Accessory
RSD24TRIM-04	Matt Black Trim Accessory
RSD24TRIM-13	Brushed Chrome Trim Accessory

CONIN	/EDC	IONE	AV/AI	LABLE
CUIN	CRD	CFIUI	AVAI	LADLE





DIMENSIONS (mm)	Diameter	Cut-out	Height
RSD6CCT3M-01	140	55-100	15
RSD12CCT3M-01	165	55-125	15
RSD18CCT3M-01	217	55-175	15
RSD24CCT3M-01	290	60-250	15







	RSD6CCT3M-01	RSD12CCT3M-01	RSD18CCT3M-01	RSD24CCT3M-01
Comparable to:	13W PL	2x13W PL	2x18W PL	2x26W PL
Total Power (W):	6.1/6.2/6.1	12.5/12.8/12.6	18.1/18.6/18.2	22.8/23.5/22.7
Total Light Output (lm)): 440/480/450	970/1080/990	1620/1770/1590	1820/2100/1870
Efficacy (lm/cctW):	74/79/75	77/84/79	89/95/87	80/90/83
Lifetime (hrs):	20,000	20,000	20,000	20,000
Beam Angle (deg):	115	115	115	115
Lux at 1m (lux):	150/170/160	330/370/340	560/610/570	630/730/650
CCT (K):	3000/4000/6500	3000/4000/6500	3000/4000/6500	3000/4000/6500
CRI (Ra):	80	80	80	80
Power Factor (PF):	0.9	0.9	0.9	0.9
Box Qty:	1	1	1	1
Weight (kg):	0.15	0.33	0.46	0.73























MORPH LED CCT3 SELECTABLE



MORPH LED CCT3 SELECTABLE

- Die cast aluminium body with polycarbonate diffuser
- C/w driver and quick fix secondary connector for easy installation
 Colour temperature can be selected on completion for best light
- colour to suit the task area and décor of the lit space.

 It can also be changed quickly and simply if décor or use of the
- It can also be changed quickly and simply if decor or use of the area is changed in the future.
- Wide operating ambient temperature range of -20°C to +40°C
- · Suitable for switching by PIR, Microwave or Photocell
- Dimmable with selected leading & trailing edge dimmers.
 Compatibility list available on website
- · 850°C glow wire tested

CONVERSIONS AVAILABLE

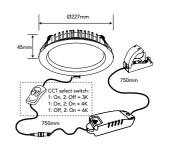


ACCESSORIES

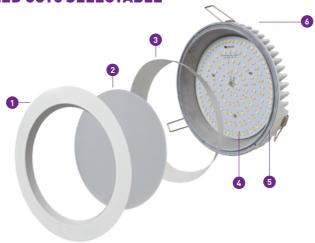
RMPSMK-01 MORPH, Surface Mount Can, White R3EMPK4-PSU Plug and play emergency pack R1825265TRIM-01 Extension trim



DIMENSIONS (mm)	Diameter	Cut-out	Depth
RMP20WCCT3DL-01	227	195	45
RMP30WCCT3DL-01	227	195	45
PMP50WCCT3DL-01	227	195	45



MORPH LED CCT3 SELECTABLE



- 1. ALUMINIUM BEZEL ROBUST AND DURABLE
- 4. COLOUR SELECTABLE **LED ARRAY** HIGH POWERED LEDS PRODUCING UP TO 4,490 LUMENS DIMMABLE
- 2. POLYCARBONATE DIFFUSER HIGH QUALITY DIFFUSER DISPERSES LIGHT EVENLY HIGH EFFICACY OF 84-109LM/W
- 5. DIE CAST ALUMINIUM BODY DESIGNED FOR OPTIMAL THERMAL MANAGEMENT OF THE LED CHIPS
- 3. REFLECTOR ENSURES ALL LIGHT FROM THE LEDS IS REFLECTED INTO THE DIFFUSER
- 6. COLOUR TEMPERATURE **SELECTION SWITCH** EASY TO SET CCT CHOICE

	20W	30W	50W
	RMP20WCCT3DL-01	RMP30WCCT3DL-01	RMP50WCCT3DL-01
Comparable to CFL:	2x26	2x32	2x42
Total Power (W):	20.2/19.3/20.4	30.6/28.8/31	49/45.7/48.3
Total Light Output (lm):	1,860/2,060/2,100	2,770/3,140/3,140	4,130/4,490/4,240
Efficacy (lm/cctW):	92/107/103	91/109/101	84/98/88
Lifetime (hrs):	30,000	30,000	30,000
Beam Angle (deg):	110	110	110
Lux at 1m (lux):	600/700/620	900/1,000/930	1,550/1,700/1,600
CCT (K):	3000/4000/6500	3000/4000/6500	3000/4000/6500
CRI:	80	80	80
Impact Rating (IK):	08	08	08
Power Factor (PF):	0.9	0.9	0.9
Box Qty:	1	1	1
Weight (kg):	1.1	1.3	1.3











Note: Multiple CCT data shown in format WW/NW/DW



VIRTUE LED DOWNLIGHT





VIRTUE 18W & 24W LED DOWNLIGHT

- · Die cast aluminium housing with polycarbonate diffuser
- C/w driver and quick fix secondary connector for easy installation
- Prewired with 1.5m flex and SWIFT 4 pin male/female plug & play connector with large terminals and integrated cable restraint
- · Fast, simple and efficient installability
- Wide ambient operating temperature range of -20°C to +40°C
- · Suitable for switching by PIR, Microwave or Photocell

CONVERSIONS AVAILABLE

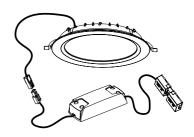


DIMENSIONS (mm)	Diameter	Cut-out	Depth
RVR1840-01	221	195-205	38
RVR2440-01	221	195-205	38

ACCESSORIES

RMPSMK-01 Surface Mounting Can
R3EMPK4-PSU Plug & play emergency pack with LifePo4 Battery
HED2040-D DALI, 1-10V, Push Dim Driver
RVR265TRIM-01 VIRTUE 265mm Extention Trim

Product Code:	RVR1840-01	RVR2440-01
Comparable to:	2x26W PL	2x32W PL
Total Power (W):	18.0	23.7
Total Light Output (lm):	2,270	2,990
Efficacy (lm / cctW):	126	126
Beam Angle (deg):	100	100
Lux at 1m (lux):	920	1,200
CCT (K):	4,000	4,000
CRI (Ra):	80	80
Rated Life (hrs):	50,000	50,000
Power Factor (PF):	0.95	0.95
Box Qty:	1	1
Weight (kg):	0.6	0.6





SEAI Approved



SUN CIRCULAR LED PANEL





SUN CIRCULAR LED PANEL, WHITE

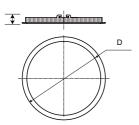
- · Energy saving alternative to compact fluorescent fittings
- Low profile downlights ideal for installation in shallow ceiling voids
- · Die cast aluminium construction
- · Complete with plug and play driver and 1m of flex
- Wide operating ambient temperature range of -20°C to +40°C
- · Emergency, Analogue dimmable and DALI dimmable available

CONVERSIONS AVAILABLE



ACCESSORIES

R3EMPK4-PSU Plug and play emergency pack (R225 &R300 only)
HED2040-D DALI, 1-10V, Push Dim Driver (R225 &R300 only)
R18DIM-PSU 18W dimmable driver for R225LEDC40N-01
R24DIM-PSU 24W dimmable driver for R300LEDC40N-01



DIMENSIONS (mm)	Diameter	Cut-out	Depth
R120LEDC30N-01	120	110	22.5
R120LEDC40N-01	120	110	22.5
R150LEDC30N-01	145	135	22.5
R150LEDC40N-01	145	135	22.5
R170LEDC30-01	170	150	25
R170LEDC40-01	170	150	25
R225LEDC30N-01	225	210	25
R225LEDC40N-01	225	210	25
R3001 FDC40N-01	300	285	25



3000K	R120LEDC30N-01	R150LEDC30N-01	R170LEDC30-01	R225LEDC30N-01	
4000K	R120LEDC40N-01	R150LEDC40N-01	R170LEDC40-01	R225LEDC40N-01F	R300LEDC40N-01
Comparable to:	13W PL	18W PL	18W PL	2x18W PL	2x18W CFL
Total Power (W):	6.2/6.0	9.5/9.3	11.3/11.6	19.9/19.6	19.9
Total Light Output (l	m): 510/500	910/930	820/850	1940/2120	1,940
Efficacy (lm/cctW):	82/83	97/101	73//73	98/108	98
Lifetime (hrs):	30,000	30,000	30,000	30,000	30,000
Lux at 1m (lux):	180/180	320/330	280/320	710/780	710
Beam Angle (deg):	110	110	110	110	110
CCT (K):	3000/4000	3000/4000	3000/4000	3000/4000	3000/4000
CRI:	80	80	80	80	80
Impact Rating (IK):	08	08	08	08	08
Power Factor (PF):	0.5	0.5	0.5	0.5	0.5
Weight (kg):	0.2	0.28	0.24	0.55	0.75













SEAI Approved

GRANADA UGR≤19 LED



GRANADA UGR≤19 20W & 28W LED DOWNLIGHT, WHITE

- · White powder coated aluminium housing with polycarbonate diffuser and steel spring clips
- High reflectance 50-degree silvered reflector providing uniform light distribution and UGR ≤19 for most installations
- · Ideal light colour for task-oriented applications
- State of the Art electronic driver with secondary plug and play connector to the fitting for fast and simple installation
- · Suitable for use in extremes of hot or cold temperatures

CONVERSIONS AVAILABLE

RGA2840-01



ACCESSORIES

R3EMPK4-PSU Plug & play emergency pack with LifePo4 Battery HED2040-D 1-10V, DALI and Push dim driver available

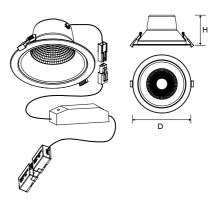
DIMENSIONS (mm)	Diameter	Cut-out	Depth
RGA2040-01	174	145	90

232

195

118

	RGA2040-01	RGA2840-01
Comparable to:	2x18W PL	2x26W PL
Total Power (W):	20.0	28.4
Total light output (lm):	1,850	2,740
Efficacy (lm/cctW):	93	96
Lifetime (hrs):	50,000	50,000
Beam Angle (deg):	50	50
Lux at 1m (lux):	2,580	3,570
CCT (K)	4000	4000
CRI:	80	80
Power Factor (PF):	0.95	0.95
Box Qty:	1	1
Weight (kg)	0.35	0.5















Triple E Registered



DEXTER LED



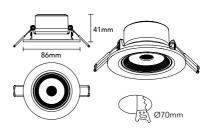
DEXTER 6W LED DIMMABLE DOWNLIGHT

- Utilises high quality SMD technology for excellent light output and low power consumption
- Warm or neutral white CCT for task based or more relaxing environments
- Wide and adjustable tilt angle to highlight wall & floor mounted goods
- Clear light beam with no dark spots and has gentle fade to edges for uniform lighting design
- Wide operating ambient temperature range of -20°C to +40°C
- Can be switched by microwave, external PIR and/or photocell

ACCESSORIES

RDETRIM-13	Brushed Chrome Trim
RDETRIM-15	Satin Silver

DIMENSIONS (mm)	Diameter	Cut-out	Depth
RDE6P030D-01	86	70	41
RDE6P040D-01	86	70	41





	RDE6P030D-01	RDE6P040D-01
	3000K Dimmable	4000K Dimmable
Comparable to:	50W halogen	50W halogen
Total Power (W):	5.3	5.4
Total Light Output (lm):	420	460
Efficacy (lm / cctW):	79	85
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	38	38
Lux at 1m (lx):	600	630
CCT (K):	3000	4000
CRI:	80	80
Power Factor (PF):	0.8	0.8
Projection (mm):	3	3
Box Qty:	1	1
Weight (kg):	0.11	0.11



SEAI Approved

WILSON LED WALL WASHER





WILSON LED CIRCULAR WALL WASHER

- · Die cast aluminium housing with toughened glass
- Wide operating ambient temperature range of -20°C to +40°C
- . 35W version incorporates fast-fix driver feature for ease of installation
- . 13W has adjustable tilt of 45°, 35W version adjustable tilt angle of 70° and swivel of 350°
- · Suitable for switching by external PIR, Microwave or Photocell

CONVERSIONS AVAILABLE

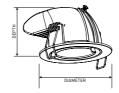






Neutral White		
	13W	35W
	RWL01340-01	RWL03540-01
Comparable to:	20W Metal Halide	50W Metal Halide
Total Power (W):	12.7	35 .2
Total Light Output (lm):	1,050	3,220
Efficacy (lm/cctW):	83	91
Lifetime (hrs):	50,000	50,000
Beam Angle (deg):	60	70
Lux at 1m (lux):	1,070	2,250
CCT (K):	4000	4000
CRI (Ra):	80	80
Power Factor (PF):	0.95	0.95
Impacting Rating (IK):	08	08
Box Qty:	1	1
Weight (kg):	0.47	1.5

DIMENSIONS (mm)	Diameter	Cut-out	Depth
RWL01340-01	98	85	130
RWL03540-01	195	170	175



















SEAI Approved

RIDA MAINS VOLTAGE





Straight

Directional

RIDA 50W GU10 PRESSED STEEL DOWNLIGHT

- . GU10 circular downlight made from pressed steel
- Complete with bracket, terminal block and high quality GU10 lamp holder
- · Spring clip
- R208PS has a directional tilt of 20°

Straight	Directional
R201PS-01	R208PS-01
R201PS-03	R208PS-03
R201PS-13	R208PS-13
50	50
GU10	GU10
0.10	0.19
10	10
	R201PS-01 R201PS-03 R201PS-13 50 GU10 0.10

 DIMENSIONS (mm)
 Diameter
 Cut-out
 Depth

 R201PS-01/03/13
 80
 60
 90

 R208PS-01/03/13
 105
 85
 90





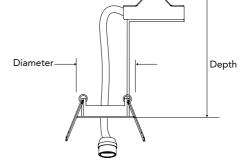












SALLY MAINS VOLTAGE





Straight

Directional

SALLY 50W GU10 SPRING LOADED MAINS VOLTAGE PRESSED STEEL ALUMINIUM DOWNLIGHT, IP20, DIMMABLE

- Pressed steel straight or directional downlight with electroplated finish
- Spring loaded lamp holder for ease of lamp change
- . C/w bracket, terminal block & GU10 lamp holder
- · Enclosed recessed GZ fitting with integral air cooling slots
- RS208E has a directional tilt of 20°
- · Dimmer compatibility list available on website

	Straight	Directional
White	RS201E-01	RS208E-01
Brass	RS201E-02	RS208E-02
Chrome	RS201E-03	RS208E-03
Brushed chrome	RS201E-13	RS208E-13
Total Power (W):	50	50
Cap Type:	GU10	GU10
Weight (kg):	0.19	0.19
Box Qty:	10	10

DIMENSIONS (mm)	Diameter	Cut-out	Depth
RS201E-01/02/03/13	80	65	82
RS208E-01/02/03/13	99	75	85



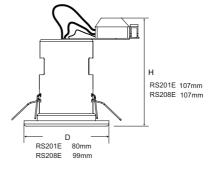












ZAK MAINS VOLTAGE





Straight

Directional

ZAK 50W GU10, MAINS VOLTAGE DIE CAST ALUMINIUM DOWNLIGHT

- · Die cast aluminium straight or directional downlight
- C/w bracket, terminal block & double insulated GU10 lamp holder
- · Twist & lock front bezel
- · Easy lamp replacement
- R208SCN has a directional tilt of 20°

	Straight	Directional
White	R201SCN-01	R208SCN-01
Chrome	R201SCN-03	R208SCN-03
Brushed Chrome	R201SCN-13	R208SCN-13
Total Power (W):	50	50
Cap Type:	GU10	GU10
Weight (kg):	0.16	0.16
Box Qty:	0.1	0.13













R201SCN-01/03/13

R208SCN-01/03/13 93

DIMENSIONS (mm) Diameter Depth Cut-out

78

70

100

100 82

ROCKSTAR LED WALL WASHER



ROCKSTAR LED RECESSED WALL WASHER

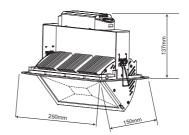
- · Suitable for use in bars, clubs, retail, showrooms, exhibition centres, museums
- · Die cast aluminium housing with toughened glass
- Wide operating ambient temperature range of -20°C to +40°C
- Adjustable tilt angle of 60°
- · Suitable for switching by external PIR, Microwave or Photocell

CONVERSIONS AVAILABLE



Neutral White			
36W	44W		
RRC03645-01	RRC04445-01		
50W Metal Halide	70W Metal Halide		
36.5	45.3		
3,430	4,250		
94	94		
50,000	50,000		
90	90		
1,500	1,950		
4500	4500		
85	85		
0.95	0.95		
08	08		
1	1		
1.5	1.58		
	RRC03645-01 50W Metal Halide 36.5 3,430 94 50,000 90 1,500 4500 85 0.95		

DIMENSIONS (mm)	Length	Width	Depth	Cut-out
RRC03645-01	250	150	130	130x220
RRC04445-01	250	150	130	130x220





















Ray. Ban:

Rockstade Gruchy Store, Jersey, France



GOLF LED SLIM	188
GOLF LED	190
GOLF LED CCT3 SELECTABLE	192
GOLF LED RETROFIT TRAY	194
COMPACT LED	196
COMPACT HF 2D	197
EAGLE LED	198
HAWK LED	200
GLOW & EAGLET	202
OYSTER LED	204
ELEGANCE LED	205

GOLF SLIM LED





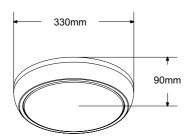


GOLF SLIM 10W & 15W LED CCT SELECTABLE, IP65, WHITE

- Suitable for use in retail shops, public buildings, communal areas, sports centres, stairwells, corridors, walkways
- Colour temperature can be selected on completion for best light colour to suit the task area and décor of the lit space. It can also be changed quickly and simply if décor or use of the area is changed in the future.
- Sensor version rated at 150W so can switch on a total of 14 x 100W fittings or 9 x 150W fittings. Ideal for corridor and stairway applications

Microwave sensor details:

- Detection range: 5m
- Adjustable time delay: 5s, 30s, 90s, 3min, 20min, 30min
- Adjustable lux settings: 2lux, 10lux, 30lux, 50lux, Disable
- Mounting height: 2.5-6m
- Slim profile with a height of only 90mm
- High efficiency Pro-diffuser allows maximum light transmission, provides low glare and creates even light distribution
- · Provides 3 hour emergency discharge duration
- Wide operating ambient temperature range of -20°C to +40°C
- · Suitable for switching by PIR, Microwave or Photocell
- Emergency version provides high lux levels for good visibility of exit routes from the area



CONVERSIONS AVAILABLE



DIMENSIONS(mm)	Diameter	Height
RS100LEDCCT3-01	330	90
RS150LEDCCT3-01	330	90
RS100LEDCCT3S-01	330	90
RS100LEDCCT3E-01	330	90
RS150LEDCCT3E-01	330	90
RS100LEDCCT3ES-01	330	90



	10W	15W
Standard	RS100LEDCCT3-01	RS150LEDCCT3-01
Emergency	RS100LEDCCT3E-01	RS150LEDCCT3E-01
Microwave Sensor	RS100LEDCCT3S-01	RS150LECCT3-01SEN
Emergency & Sensor	RS100LEDCCT3ES-01	RS150LEDCCT3E-01SEN
Comparable to:	28W 2D	38W 2D
Total Power (W):	9.9/9.8/10.0	14.7/14.3/14.7
Total Light Output (lm):	830/910/900	1200/1340/1310
Emergency Light Output (lm):	130/140/140	140/150/150
Efficacy (lm/cctW):	84/94/91	82/94/89
Lifetime (hrs):	50,000	50,000
Beam Angle (deg):	110	110
Lux at 1m (lux):	260/290/290	380/420/410
Emergency Lux at 1m (lux):	40/40/40	40/50/50
CCT (K):	3000/4000/6500	3000/4000/6500
CRI (Ra):	85	85
Power Factor (PF):	0.9	0.9
Impact Rating (IK):	09	09
Box Qty:	1	1
Weight (kg):	0.87 standard	0.87 standard
	0.93 sensor	
	1.09 emergency	1.09 emergency
	1.12 emergency sensor	



Triple E registered SEAI Approved

GOLF LED



GOLF LED WITH PRO-DIFFUSER

- Suitable for use in retail, public buildings, communal areas, sports centres, stairwells, corridors, walkways
- >50% energy savings compared to fluorescent
- · Utilises high quality, long life SMD technology
- Sensor version rated at 150W so can switch a total of 14 x 100W fittings or 9 x 150W fittings so is ideal for corridor and stairway applications
- High efficiency Pro-diffuser allows maximum light transmission, provides low glare, creates even light distribution – no hot spots
- Wide operating ambient temperature range of -20°C to +35°C
- Suitable for 24/7 use
- · Suitable for switching by external PIR, Microwave or Photocell

ACCESSORIES

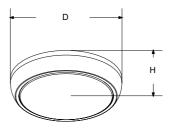
R162TRIM-03 Chrome Trim for 7.5W R282TRIM-03 Polished Chrome Trim

CONVERSIONS AVAILABLE



DIMENSIONS(mm) Diameter Height

7.5W	272	90	
10W	330	118	
15W	330	118	





	7.5W	10W	15W
Standard	R075LED-01	R100LED-01	R150LED-01
Emergency	R075LEDE-01	R100LEDE-01	R150LEDE-01
Microwave Sensor	R075LEDS-01	R100LEDS-01	R150LEDS-01
Emergency & Sensor		R100LEDES-01	R150LEDES-01
3 Step Dimming			R150LED3SD-01
Emergency & 3 Step Dimming			R150LEDE3SD-01
Comparable to:	16W 2D	28W 2D	38W 2D
Total Power (W):	7	10.6	14.6
Total Light Output (lm):	640 standard	860 standard	1,250 standard
	180 emergency	180 emergency	180 emergency
Efficacy (lm/cctW):	91	82	86
Lifetime (hrs):	50,000	50,000	50,000
Beam Angle (deg):	110	110	110
Lux at 1m (lux):	210 standard	270 standard	410 standard
	60 emergency	60 emergency	60 emergency
CCT (K):	4000	4000	4000
CRI (Ra):	80	80	80
Power Factor (PF):	0.9	0.9	0.9
Impact Rating (IK):	09	09	09
Box Qty:	1	1	1
Weight (kg):	1.09 standard	1.4 standard	1.4 standard
	1.2 emergency	1.8 emergency	1.8 emergency
·	·	·	·



LIA verified Triple E registered SEAI Approved

GOLF LED CCT3 SELECTABLE



GOLF LED CCT3 SELECTABLE

- Suitable for use in commercial offices, retail shops, nursing homes, apartment stairs and corridors, hotel receptions and sports centre changing rooms
- High impact white polycarbonate construction providing protection against accidental or malicious abuse
- Sensor version rated at 150W so can switch a total of 14 x 100W fittings or 9 x 150W fittings so is ideal for corridor and stairway applications
- High efficiency Pro-diffuser allows maximum light transmission, provides low glare, creates even light distribution – no hot spots
- Wide operating ambient temperature range of -20°C to +35°C
- Utilises high quality SMD LED's which provide low power consumption, high efficacy and long rated LED life
- · Can be switched by microwave, external PIR and/or photocell

CONVERSIONS AVAILABLE





ACCESSORIES

R282TRIM-03 Polished Chrome Trim

DIMENSIONS(mm)	Diameter	Height
10W	330	118
15W	330	118
D		-
		H H
		-



	10W	15W
Standard	R100LEDCCT3-01	R150LEDCCT3-01
Emergency	R100LEDCCT3E-01	R150LEDCCT3E-01
Microwave Sensor	R100LEDCCT3S-01	R150LEDCCT3S-01
Emergency & Sensor	R100LEDCCT3E-01SEN	R150LEDCCT3E-01S
Comparable to 2D Fluorescent (W):	28W 2D	38W 2D
Total Power (W):	11 / 10.8 / 11	15.8 / 15.2 / 16
Total Light Output (lm):	840 / 990 / 950 standard 180 emergency	1,240 / 1,420 / 1,360 standard 180 emergency
Efficacy (lm / cctW):	76 / 92 / 86	78 / 93 / 85
Lifetime (hrs):	50,000	50,000
Beam Angle (deg):	110	110
Illuminance at 1m (lx):	270 / 310 / 300 standard 60 emergency	390 / 450 / 430 standard 60 emergency
CCT (K):	3000 / 4000 / 6500	3000 / 4000 / 6500
CRI (Ra):	80	80
Power Factor (PF):	0.9	0.9
Impact Rating (IK):	09	09
Box Qty:	1	1
Weight (kg):	1.23 standard 1.63 emergency	1.23 standard 1.63 emergency



GOLF LED RETROFIT TRAY



GOLF 10W SMD LED RETROFIT TRAY

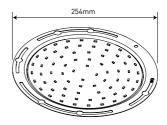
- . Universal Retrofit LED tray converts standard 2D fittings to low energy LED
- Universal mounting tray fits many existing fittings
- Actual photometric performance dependent on fitting and diffuser into which plate is installed
- R100LEDRETE provides 3 hour emergency duration. 220 lumens in emergency mode, 21% of maintained output

CONVERSIONS AVAILABLE



Standard	R100LEDRET	
Emergency	R100LEDRETE	
Emergency Sensor	R100LEDRETESEN	
Comparable to:	28W 2D	
Total Power (W):	10	
Total Light Output (lm):	1,050 standard	
	220 emergency	
Efficacy (lm/cctW):	105	
Lifetime (hrs):	50,000	
Beam Angle (deg):	120	
Lux at 1m (lux):	300 emergency	
	50 emergency	
CCT (K):	4000	
CRI (Ra):	80	
Power Factor (PF):	0.9	
Weight (kg):	0.7 standard	
	0.85 emergency	
Box Qtv:	1	

DIMENSIONS(mm) Diameter Depth R100LEDRET 35





194

SEAI Approved



^{*} Lumen outputs quoted are those for the retro-fit tray itself. Actual lumen outputs will depend on the design and type of fitting it is installed in.



GOLF LED CCT3 SELECTABLE

COMPACT LED



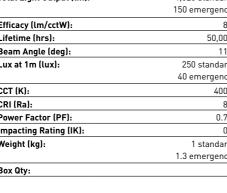
COMPACT LED FITTING

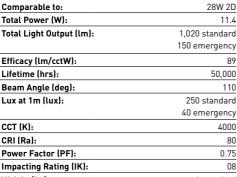
- · Suitable for use in retail, public buildings, communal areas, sports centres, stairwells, corridors, walkways
- High efficiency Pro-diffuser allows maximum light transmission, provides low glare, creates even light distribution - no hot spots
- Suitable for 24/7 use
- · Suitable for switching by external PIR, Microwave or Photocell

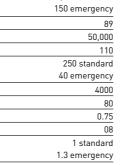
CONVERSIONS AVAILABLE



	10W
Standard	RC100LEDN-01
Emergency	RC100LEDNE-01
Comparable to:	28W 2D
Total Power (W):	11.4
Total Light Output (lm):	1,020 standard
	150 emergency
Efficacy (lm/cctW):	89
Lifetime (hrs):	50,000
Beam Angle (deg):	110
Lux at 1m (lux):	250 standard
	40 emergency
CCT (K):	4000
CRI (Ra):	80
Power Factor (PF):	0.75
Impacting Rating (IK):	08
Weight (kg):	1 standard
	1.3 emergency
Box Qtv:	6









DIMENSIONS(mm) Diameter Height

284

87

RC100LEDN-01















ECA eligible **SEAI Approved**

COMPACT HF 2D



Opal



Prismatic

COMPACT 2D SURFACE FITTING

- Robust and vandal resistant choice of polycarbonate opal or prismatic diffusers
- IP65, suitable for internal and external applications
- C/w 4 Pin 3500K 16W or 28W lamp
- Integral high frequency ballast, flicker free start. Extends lamp life by approximately 50% compared to switch start

	16W	28W
Opal White	RC162D0-01	RC282D0-01
Prismatic White	RC162DP-01	RC282DP-01
Emergency		RC282DEP0-01
Total Power (W):	16	28
Cap Type:	GR10q	GR10q
Impacting Rating (IK):	08	08
Weight (kg):	0.7	1.2
Box Qty:	1	1

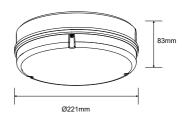


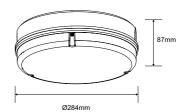
Emergency version

- · C/w both Opal and Prismatic diffusers
- · Maintained 3hr emergency operation
- Can be wired as non-maintained

RC282DEPO-01	White Base

DIMENSIONS(mm)	Diameter	Height
RC162D0-01	221	83
RC282D0-01	284	87





EAGLE LED



EAGLE LED SURFACE FITTING

- Common aesthetic across the EAGLE range allows mix and match
 of fittings in the building of different lumen packages and physical
 size
- Wide operating ambient temperature range of -20°C to +35°C
- · For fast and simple installation, the fitting has:
 - Twist & lock trim for easy gear tray access
 - Clip and detach hinged tray accesses termination area
 - Swift inside 4 pole loop in/out connector
 - Single gear tray to base locking screw
- To compliment up to 65% energy savings versus CFL, enhanced energy savings can be achieved using:
 - External PIR or integral microwave sensor controls and/or
 - Dual Power, 3 Step, DALI and Analogue dimming

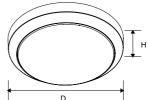
ACCESSORIES

REESTRIM-03	7W Chrome Trim
REESTRIM-13	7W Brushed Chrome Trim
REEMTRIM-03	10W/14W Chrome Trim
REEMTRIM-13	10W/14W Brushed Chrome Trim
REETRIM-03	24W Chrome Trim
REETRIM-13	24W Brushed Chrome Trim
RETM01530	14W 3000K Gear Tray

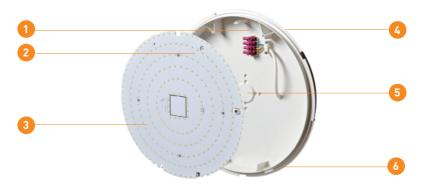
CONVERSIONS AVAILABLE



DIMENSIONS(mm)	Diameter	Height
7W	272	91
10W	330	91
14W	330	91
24W	420	91



EAGLE LED



1. SWIFT CONNECTOR

FOR QUICK DISCONNECTION OF THE TRAY BEFORE INSTALLATION OF BASE

4. HINGED BASE

EASY TO UPGRADE

2. ONE SCREW

EASY TO INSTALL, ONLY ONE SCREW TO TIGHTEN AFTER BASE IS INSTALLED

5. BESA CONDUIT BOX COMPATIBLE

CAN BE MOUNTED DIRECTLY ON BESA CONDUIT BOXES

3. KNOCK-OUT CENTRE

ALLOWS EASY UPGRADE TO SENSOR VERSION

6. PC BASE

ALLOWS FOR IK10 RATING ON A SLIM DESIGN

Neutral White

	7W	10W	14W	24W
Standard	REES7P040-01	REEM01040-01	REEM01540-01	REEL02440-01
Emergency	REES7P040E-01	REEM01040E-01	REEM01540E-01	REEL02440E-01
Microwave Sensor		REEM01040-01SEN	REEM01540-01SEN	REEL02440-01SEN
Emergency Sensor		REEM01040E-01SEN	REEM01540E-01SEN	REEL02440E-01SEN
Comparable to:	16W 2D	28W 2D	38W 2D	55W 2D
Total Power (W):	6.5	9.6	12.7	21.4
Total Light Output (lm):	660 standard	1,050 standard	1,400 standard	2,340 standard
	130 emergency	120 emergency	160 emergency	260 emergency
Efficacy (lm/cctW):	102	109	110	109
Lifetime (hrs):	50,000	50,000	50,000	50,000
Beam Angle (deg):	110	110	110	110
Lux at 1m (lux):	210 standard	340 standard	450 standard	780 standard
	40 emergency	40 emergency	50 emergency	90 emergency
CCT (K):	4000	4000	4000	4000
CRI (Ra):	>80	>80	>80	>80
Impact Rating (IK):	10	10	10	10
Power Factor (PF):	0.9	0.9	0.9	0.9
Weight (kg):	0.92 standard	1.28 standard	1.28 standard	2.10 standard
	1.10 emergency	1.54 emergency	1.54 emergency	2.45 emergency







LIA Verified ECA eligible SEAI approved



HAWK LED



HAWK LED SURFACE FITTING

- · A high security, anti-tamper companion to the EAGLE range
- Common aesthetic across the HAWK range allows mix and match of fittings in the building of different lumen packages size
- Wide operating ambient temperature range of -20°C to +35°C
- Screw-on trim fitted with retained anti-tamper TORX T20 security screws and requires matching screwdriver head to release and replace trim
- Complies with requirements of the Energy Technology Criteria List. Enhanced Capital Allowances may be claimed on the cost of the luminaires, installation and transport to site

CONVERSIONS AVAILABLE

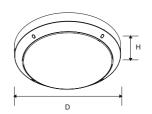


ACCESSORIES

RHKMTRIM-04	Black Trim
RHKMTRIM-24	Grey Trim
RHKMEY-04	Black Eyelid Trim
RHKMCR-24	Grey Eyelid Trim
RHKMCR-04	Black Cross Grid Trim
RHKMCR-24	Grey Cross Grid Trim
RHKMCOLL-01	Medium Extension Collar, White

^{*}Accessories are only for 330mm diameter versions

DIMENSIONS(mm)	Diameter	Height
10W	330	91
14W	330	91
25/35W	420	91



SURFACE FITTINGS **HAWK LED**







HAWK Base Anti-tamper, screw-on trim

·	10W	14W	25/35W
Standard	RHKM01040-01	RHKM01540-01	RHKLDP40-01
Emergency	RHKM01040E-01	RHKM01540E-01	RHKLDP40E-01
Microwave Sensor	RHKM01040-01SEN	RHKM01540-01SEN	
Emergency & Sensor	RHKM01040E-01SEN	RHKM01540E-01SEN	
Comparable to:	28W PL	38W PL	55/2X38W PL
Total Power (W):	9.6	12.7	21.4/34.4
Total Light Output (lm):	1,050 standard 120 emergency	1,400 standard 160 emergency	2340/4020 standard 250/310 emergency
Efficacy (lm / cctW):	109	110	109/117
Lifetime (hrs):	50,000	50,000	50,000
Beam Angle (deg):	110	110	110
Illuminance at 1m (lx):	340 standard 50 emergency	450 standard 80 emergency	780/1330 standard 85/100 emergency
CCT (K):	4000	4000	4000
CRI (Ra):	80	80	80
Impact Rating (IK):	10	10	10
Power Factor (PF):	0.95	0.95	0.97
Box Qty:	1	1	1
Weight (kg):	1.28 standard	1.28 standard	1.56 standard
	1.54 emergency	1.54 emergency	1.82 emergency









LIA Verified ECA eligible **SEAI Approved**



GLOW & EAGLET GEARTRAY



GLOW LED TRAY FOR EAGLE AND HAWK SHELLS

- High CRL and R9 accentuating red hues makes this ideal for use in ladies' hair and beauty salons, cloakrooms, dressing rooms and toilets, bathrooms, retail outlets and displays
- Hinged LED tray and slotted mounting posts in the shell provide fast and simple assembly
- "SWIFT Inside" LED tray flying lead and SWIFT male plug allows quick and easy connection to the shelf SWIFT female plug

WARM WHITE LED TRAY FOR EAGLE AND HAWK SHELLS

- Provides a warm white light colour so is ideal for a relaxing environment in care homes, hotel receptions and corridors or breakout areas
- Hinged LED tray and slotted mounting posts in the shell provide fast and simple assembly
- "SWIFT Inside" LED tray flying lead and SWIFT male plug allows quick and easy connection to the shelf SWIFT female plug

WARM WHITE LED TRAY FOR EAGLE AND HAWK SHELLS

 These shells allow either of the above two LED trays to be used for more specialised lighting requirements whilst still retaining the common aesthetic of the EAGLE and HAWK throughout an installation

CONVERSIONS AVAILABLE



ACCESSORIES

REEM-01	EAGLE shell for GLOW & EAGLET
RHKM-01	HAWKshell for GLOW & EAGLET
3000K GEAR TRAY	RETM01530 (14W only)
RHKMTRIM-24	3000K GEAR TRAY

GLOW	RETM01540C90
Total Power (W):	12.7
Total Light Output (lm):	1,190
Efficacy (lm/cctW):	95
Lifetime (hrs):	50,000
Beam Angle (deg):	120
Lux at 1m (lux):	390
CCT (K):	4000
CRI (Ra):	90
Power Factor (PF):	0.95
Box Qty:	1

5 ^{YRS}		ĺ	95 .mw	1	1	
OP 220 240	ᆜ	-	IP 65	PHOTO METRICS	L1	L2

DIMENSIONS(mm)	Diameter	Height
RETM01540C90	260	28
RETM01530	257	23
REEM-01 EAGLE Shell	260	28
RHKM-01 HAWK Shell	257	23

EAGLET	RETM01530
Total Power (W):	12.4
Total Light Output (lm):	1260
Efficacy (lm/cctW):	102
Lifetime (hrs):	50,000
Beam Angle (deg):	120
Lux at 1m (lux):	410
CCT (K):	3000
CRI (Ra):	80
Power Factor (PF):	0.95
Box Qty:	1





OYSTER LED



OYSTER LED FITTING

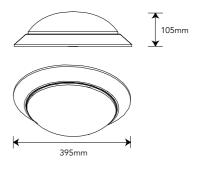
- Suitable for use in retail shops, public buildings, communal areas, sports centres, stairwells, corridors, walkways, toilets, restrooms and bathrooms
- · Pressed steel base with twist and lock PMMA diffuser
- Wide ambient operating temperature range of -20°C to ↓//0°C
- Providing 65lm/W meeting Part L2 requirements
- Suitable for use 24/7
- · Suitable for wall and ceiling mounting
- Suitable for external PIR, microwave or photocell switching

CONVERSIONS AVAILABLE



DIMENSIONS(mm) Diameter Height
R24WLED40EU-01 395 105

	24W
	R24WLED40EU-01
Comparable to:	38W 2D
Total Power (W):	26.2
Total Light Output (lm):	1,710
Efficacy (lm/cctW):	65
Lifetime (hrs):	50,000
Beam Angle (deg):	120
Lux at 1m (lux):	400
CCT (K):	4000
CRI (Ra):	80
Power Factor (PF):	0.9
Weight (kg):	0.94
Box Qty:	1













LIA verified

ELEGANCE LED

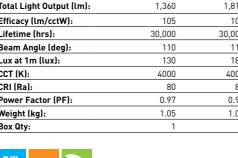




ELEGANCE LED SLIMLINE BULKHEAD

- · Suitable for use in offices, cinemas, stairs, corridors, cares homes, student accommodation, hospitals, hotels, changing rooms, entrances and walkways
- · Polycarbonate housing and opal polycarbonate diffusers provides high impact rating, strong for life and low glare
- . Standard and microwave sensor version available with rear mounted on/off switch to enable/disable photocell
- · High quality LM80 tested LED's providing high light output with low power consumption and long life with low maintenance costs
- · Complete with surface mounting bracket allowing fast and simple installation on wall or ceiling
- · Side cable entry knockout in base providing connection from rear or from side
- · Can be switched by external PIR, Microwave or Photocell

Standard Microwave Sensor	REA1340-01 REA1340S-01	REA1840-01 REA1840S-01
Comparable to:	26W PL FL.	2 x 18W PL FL.
Total Power (W):	12.9	18
Total Light Output (lm):	1,360	1,810
Efficacy (lm/cctW):	105	101
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	110	110
Lux at 1m (lux):	130	180
CCT (K):	4000	4000
CRI (Ra):	80	80
Power Factor (PF):	0.97	0.97
Weight (kg):	1.05	1.05
Box Qty:	1	1















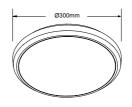






Triple E Registered

DIMENSIONS(mm) Diameter Height REA1340-01 300 44 REA1840-01 300 44







Back of fitting

OUTDOOR

REMY LED FLOOD LIGHT	208
HILUME LED FLOOD LIGHT	210
OHIO LED BULKHEAD	212
VEGA LED BULKHEAD	214
WHITESTAR BULKHEAD	216
TOGA LED BULKHEAD	217
DINGLE LED LANTERN	218
KERRY LED LANTERN	219
MONOLUME & BILUME ACTIVATE LED WALL LIGHTS	220
ZEBO LED WALL LIGHT	222
TRALEE LED WALL LIGHT	224
ECLIPSE LED WALL LIGHT	225
TWILIGHT LED WALL LIGHT	226
LUNAR LED WALL LIGHT	229
APEX LED WALL LIGHT	230
JUPITER LED WALL LIGHT	232
ORION LED WALL LIGHT	233
JUPITER LED BOLLARD	234
ORION LED BOLLARD	235
BEACON BOLLARD	236
ORIENT BOLLARDS	238
VITA CIRCULAR LED KIT	240
TIBO STEP LIGHTS	241
ZERO LED GROUND LIGHT	242
ASYMMETRIC LED GROUND LIGHT	243
EWOK LED GROUND LIGHT	244
LED GARDEN SPIKES/SPOTLIGHTS	245
GARDEN SPIKES AND SPOTLIGHTS	246
OUTDOOR ACCESSORIES	250

OUTDOOR

REMY LED FLOOD LIGHT







REMY LED flood light

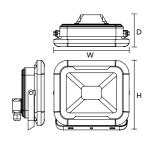
- Pre-drilled, angled mounting bracket for fast and simple installation
- No warm up or cool down period required by LED
- Wide operating ambient temperature range of -20°C to 40°C
- · Suitable for switching by external PIR, Microwave or Photocell
- Manual override function on PIR
- 600mm arm accessory for use with 10W, 20W and 30W allows projected illumination for signage and other display purposes

ACCESSORIES

RMCSPIKE-04	Garden spike attachment
R10FSA-01	LED flood light signage arm, white
R10FSA-01	LED flood light signage arm, black
RFSB-04	LED flood light swivel bracket, black



DIMENSIONS (mm)	Width	Height	Depth
RRE1030 / PIR	148/148	150/200	73/90
RRE2030 / PIR	148/148	150/200	73/90
RRE3030 / PIR	173/173	170/233	85/96
RRE5030 / PIR	225/NA	220/NA	85/NA





Standard Black	RRE1030-04	RRE2030-04	RRE3030-04	RRE5030-04
	RRE1040-04	RRE2040-04	RRE3040-04	RRE5040-04
Standard White	RRE1040-01	RRE2040-01	RRE3040-01	RRE5040-01
PIR Black	RRE1030P-04	RRE2040P-04	RRE3040P-04	N/A
	RRE1040P-04			
PIR White	RRE1040P-01	RRE2040P-01	RRE3040P-01	N/A
Comparable to MH (W):	20	35	50	80
Total Power (W):	9.7/9.6	19.7/19.6	28.9/28.7	46.6/46.7
Total Light Output (lm):	800/880	1,550/1,730	2,530/2,750	4,020/4,670
Efficacy (lm/cctW):	82/92	79/90	87/96	86/100
Lifetime (hrs):	30,000	30,000	30,000	30,000
Beam Angle (deg):	100	100	100	100
Lux at 1m (lux):	340/370	710/780	1,110/1,200	1,660/1,900
CCT (K):	3000/4000	3000/4000	3000/4000	3000/4000
CRI:	80	80	80	80
Power Factor (PF):	0.95/0.5	0.95/0.5	0.95	0.95
Impact Rating (IK):	07	07	07	07
Box Qty:	1	1	1	1
Weight (Kg):	0.49/0.6	0.63/0.7	0.83/0.9	1.1/NA



SEAI Approved

Time off delay:	10s - 10min
Lux settings:	10 - 2,000 lx
Mounting height range:	2.5 - 4m Max
Detection range:	7 - 10m Max
Detection angle:	120°
IP:	65

OUTDOOR HILUME FLOOD





HILUME FLOOD

- · Die cast aluminium housing providing optimal heat dissipation and high resistance to weather conditions
- · Complete with stainless steel screws
- Prewired with 1m of rubber flex
- · Pre-drilled angled mounting bracket with 180° adjustable angle
- Suitable for switching by PIR, Microwave or Photocell

ACCESSORIES

RMCSPIKE-04	Garden spike attachment
R10FSA-01	LED flood light signage arm, white
R10FSA-01	LED flood light signage arm, black



RHL1030-04/ RHL1040-04 114 114 62 RHL2030-04/ RHL2040-04 129 121 63 RHL3030-04/ RHL3040-04 144 132 63 RHL5030-04/ RHL5040-04 184 165 63 RHL10030-04/ RHL10040-04 285 283 63 RHL1030P-04/ RHL1040P-04 114 166 81 RHL2030P-04/ RHL2040P-04 82

129 175

184

Width Height Depth

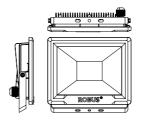
190 82

224 82

DIMENSIONS (mm)

RHL3030P-04/ RHL3040P-04

RHL5030P-04/ RHL5040P-04



OUTDOOR **HILUME FLOOD**



Standard Black	RHL1030-04	RHL2030-04	RHL3030-04	RHL5030-04	RHL10030-04
	RHL1040-04	RHL2040-04	RHL3040-04	RHL5040-04	RHL10040-04
PIR Black	RHL1030P-04	RHL2030P-04	RHL3030P-04	RHL5030P-04	
	RHL1040P-04	RHL2040P-04	RHL3040P-04	RHL5040P-04	
Comparable to MH (W):	75W Halogen	150W Halogen	200W Halogen	350W Halogen	500W Halogen
Total Power (W):	11.1/10.6	20.4/19.7	28.2/28.0	47.3/48.3	93.4/94.6
Total Light Output (lm):	960/980	1,640/1,730	2,110/2,190	3,560/3,900	7,070/7,440
Efficacy (lm/cctW):	87/93	80/88	75/78	75/81	76/79
Lifetime (hrs):	20,000	20,000	20,000	20,000	20,000
Beam Angle (deg):	100	100	100	100	100
Lux at 1m (lux):	420/430	720/760	920/940	1,470/1,590	2,840/3,010
CCT (K):	3000/4000	3000/4000	3000/4000	3000/4000	3000/4000
CRI:	80	80	80	80	80
Power Factor (PF):	0.6	0.6	0.9	0.9	0.9
Impact Rating (IK):	05	05	05	05	05
Box Qty:	1	1	1	1	1
Weight (Kg):	0.34/0.40	0.40/0.45	0.48/0.55	0.75/0.82	1.68



Time off delay:	10s - 10min
Lux settings:	10 - 2,000 lx
Mounting height range:	2.5 - 4m Max
Detection range:	7 - 10m Max
Detection angle:	120°
IP:	65

OUTDOOR

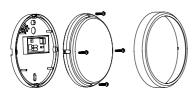
OHIO LED BULKHEAD

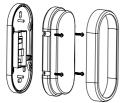




OHIO CIRCULAR/OVAL 8W & 12W LED BULKHEAD

- Comes in circular & oval design
- Complete with white and black trims
- . LED replacement for 60W & 100W incandescent fittings
- Polycarbonate construction
- UV stabilized
- Wide operating ambient temperature range of -20°C to +40°C





DIMENSIONS (mm)	Diameter	Height	Width	Length
RHC0830-01 Circular	176	55	N/A	N/A
RHC1230-01 Circular	211	55	N/A	N/A
RHC1240-01 Circular	211	55	N/A	N/A
RHV0830-01 Oval	N/A	55	100	200
RHV1230-01 Oval	N/A	55	105	230
RHV1240-01 Oval	N/A	55	105	230



	Circular	Oval	Circular	Oval
	8W	W8	12W	12W
Warm White	RHC0830-01	RHV0830-01	RHC1230-01	RHV1230-01
Neutral White			RHC1240-01	RHV1240-01
Comparable to:	60W Incandescent	60W Incandescent	100W Incandescent	100W Incandescent
Total Power (W):	8.8	8.8	11.7/12.1	12
Total Light Output (l	m): 640	660	Warm 910/Neutral 950	Warm 860/Neutral 930
Efficacy (lm/cctW):	73	73	Warm 78/Neutral 79	Warm 71/Neutral 77
Lifetime (hrs):	30,000	30,000	30,000	30,000
Beam Angle (deg):	120	120	120	120
Lux at 1m (lux):	180	180	Warm 250/Neutral 280	Warm 250/Neutral 280
CCT (K):	3000	3000	Warm 3000/Neutral 4000	Warm 3000/Neutral 4000
CRI (Ra):	80	80	80	80
Power Factor (PF):	0.5	0.5	0.5	0.5
Impact Rating (IK):	08	08	08	08
Box Qty:	1	1	1	1
Weight (kg):	0.31	0.27	0.41	0.31

















SEAI Approved

OUTDOOR

VEGA LED BULKHEAD



VEGA 14W LED BULKHEAD

- C/w stainless steel tamper proof screws
- · Suitable for wall and ceiling mounting
- Wide operating ambient temperature range of -20°C to +35°C
- Suitable for switching by external PIR, Microwave or Photocell
- Emergency version provides 130lm output in emergency mode, 12% of maintained output

CONVERSIONS AVAILABLE



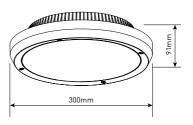
ACCESSORIES

RVECR-01	VEGA cross trim, white
RVECR-04	VEGA cross trim, Black
RVECR-24	VEGA cross trim, Grey
RVEEY-01	VEGA eyelid trim, white
RVEEY-04	VEGA eyelid trim, Black
RVEEY-24	VEGA eyelid trim, Grey





DIMENSIONS (mm)	Diameter	Depth
RVE01440-01/04/24	300	91
RVE01440E-01/04/24	300	91
RVE01440DM-01/04/24	300	91
RVF01440DMF-01/04/24	300	91





Neutral White

	Standard	Emergency	Microwave Sensor	Emergency Sensor
White	RVE01440-01	RVE01440E-01	RVE01440DM-01	RVE01440DME-01
Black	RVE01440-04	RVE01440E-04	RVE01440DM-04	RVE01440DME-04
Grey	RVE01440-24	RVE01440E-24	RVE01440DM-24	RVE01440DME-24
Comparable to:	28W 2D	28W 2D	28W 2D	28W 2D
Total Power (W):	14.3	15.7	14.3	15.7
Total Light Output (lm):	1,030	130	1,030	130
Efficacy (lm/cctW):	73	66	73	66
Lifetime (hrs):	30,000	30,000	30,000	30,000
Beam Angle (deg):	110	110	110	110
Lux at 1m (lux):	370	45	370	45
CCT (K):	4000	4000	4000	4000
CRI:	85	85	85	85
Power Factor (PF):	0.7	0.7	0.7	0.7
Impact Rating (IK):	07	07	07	07
Weight (kg):	1.35	1.35	1.35	1.35



Triple E registered ECA eligible SEAI Approved

WHITESTAR BULKHEAD





WHITESTAR 60W BULKHEAD

R60BHPIR

- · Complete with ceramic E27 lamp holder
- . Can be used with energy saving LED & CFL lamps and max 60W
- · ABS UV-stabilised housing with polycarbonate diffuser
- · Stainless steel screws
- Wide operating ambient temperature range of -20°C to +40°C
- PIR version: Has an all-round detection of 120°. Has an adjustable time delay (10secs - 4mins) and sensitivity 12m
- · Photocell version: Switches light on automatically at dusk and remains on until daybreak. Comes on at 20 lux, goes off at 50 lux

	PIR	Photocell
	R60BHPIR-01	R60BHPC-01
	R60BHPIR-04	R60BHPC-04
Total Power (W):	60	60
Cap type:	E27	E27
Power Factor (PF):	0.6	0.6
Weight (kg):	0.62	0.53
Box Qty:	1	1

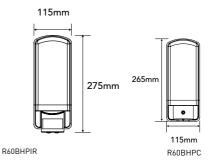
Total Power (W):	60	60
Cap type:	E27	E27
Power Factor (PF):	0.6	0.6
Weight (kg):	0.62	0.53
Box Qty:	1	1











TOGA LED BULKHEAD





R4WLEDBHE-01

TOGA 4.5W LED BULKHEAD, 4000K, WHITE

- Suitable for storage areas, corridors, stairways, wet rooms, garage lighting, covered walkways and paths around buildings
- · Standard and emergency versions
- Strong and durable polycarbonate housing and prismatic outer diffuser
- Polycarbonate Opal LED diffuser is low glare and provide even, diffused, shadow free light
- · Sprung and hinged gear tray
- · 200mm gland entry points on back and all 4 sides
- · Rear screw mounting points moulded into base

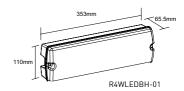
CONVERSIONS AVAILABLE

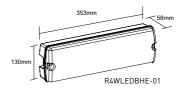




	Standard	Emergency
	R4WLEDBH-01	R4WLEDBHE-01
Comparable to:	8W Fluorescent	8W Fluorescent
Total Power (W):	4.5	6.9
Total Light Output (lm):	440	460/120 emergency
Efficacy (lm/cctW):	98	67
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	150	150
Lux at 1m (lux):	120	160/25 emergency
CCT (K):	4000	4000
CRI:	80	80
Power Factor (PF):	0.5	0.5
Impact Rating (IK):	09	09
Weight (kg):	0.43	0.65
Box Qty:	1	1

DIMENSIONS (mm)	Length	Width	Depth
R4WLEDBH-01	353	110	65.5
R4WLEDBHE-01	353	130	58







DINGLE LED LANTERN





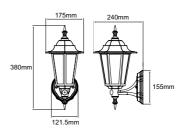
DINGLE 7W LED COACH LANTERN

- · Fully polycarbonate UV-stabilised construction
- · Stainless steel screws
- High efficacy of 61lm/W meeting Building Part L requirements
- Wide operating ambient temperature range of -20°C to +40°C
- PIR version: adjustable time settings from 5 seconds to 5 minutes and lux settings from day to night time

	With PIR	Without PIR
	RDN00740PIR-01	RDN00740-01
	RDN00740PIR-04	RDN00740-04
Total Power (W):	6.7	6.7
Total Light Output (lm):	410	410
Lifetime (hrs):	30,000	30,000
CCT (K):	4000	4000
CRI (Ra):	85	85
Box Qty:	1	1
Weight (kg):	0.8	0.5



DIMENSIONS (mm)	Height	Width	Depth
RDN00740PIR-01/04	380	175	240
RDN00740-01/04	380	175	240



KERRY LED LANTERN





Without PIR

KERRY 7W LED HALF LANTERN

- Fully polycarbonate UV-stabilised construction
- Stainless steel screws
- Wide operating ambient temperature range of -20°C to +40°C
- PIR version: adjustable time settings from 5 seconds to 5 minutes and lux settings from day to night time

CONVERSIONS AVAILABLE

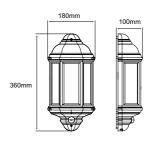


	With PIR	Without PIR
Neutral White	RKE00740PIR-01	RKE00740-01
	RKE00740PIR-04	RKE00740-04
Total Power (W):	6.8	6.8
Total Light Output (lm):	320	320
Lifetime (hrs):	30,000	30,000
CCT (K):	4000	4000
CRI (Ra):	85	85
Box Qty:	1	1
Weight (kg):	0.8	0.5

rotal Light Output (lm):	320	3
Lifetime (hrs):	30,000	30,0
CCT (K):	4000	40
CRI (Ra):	85	
Box Qty:	1	
Weight (kg):	0.8	C



DIMENSIONS (mm)	Height	Width	Depth
RKE00740PIR-01/04	360	180	100
RKE00740-01/04	360	180	100



MONOLUME & BILUME ACTIVATE LED WALL LIGHTS





Bilume

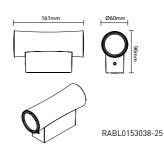
MONOLUME & BILUME ACTIVATE COB LED WALL LIGHTS

- Die cast aluminium integrated fitting with glass front and dark grey painted finish to street lighting quality
- Metal mounting box features separate screw hole champers, IP65 seal, IP67 grommets, escape path for condensation water droplets and a spirit level for precision mounting
- High resistance to all weather conditions
- Salt spray tested to IS09227
- Wide operating ambient temperature range of -20°C to +40°C
- Suitable for switching by external PIR, Microwave or Photocell



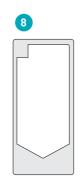
DIMENSIONS (mm) Height Diameter Projection

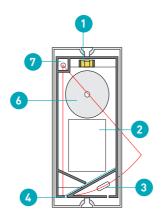
RAML7P53038-25 133 60 96 RABL0153038-25 161 60 96

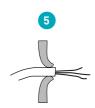


MONOLUME & BILUME ACTIVATE LED WALL LIGHTS

WALL BRACKET BOX







1. MINI SPIRIT LEVEL

BUILT IN

2. ROBUST TERMINAL BLOCK THAT DOESN'T SHATTER WHEN

THAT DOESN'T SHATTER WHEN OVER TIGHTENED

3. SEPARATE BOTTOM SCREW HOLE CHAMBER WITH SLOT

TO PRECISELY ALIGN THE BOX ON THE WALL BEFORE FIXING SECOND SCREW

4. EXIT HOLE

FOR ANY WATER THAT COLLECTS IN BOX

5. MOULD HOLE AT SMALLEST CABLE DIAMETER

ALLOWS GROMMET TO FLEX OPEN FOR WIDER CABLES TO BE PUSHED THROUGH

6. DUAL SHOT OR BONDED GROMMET

TO AVOID INSTALLER
DISCARDING IT AND
COMPROMISING IP RATING

7. SEPARATE SCREW HOLE CHAMBER

8. MOULDED RUBBER SEAL

	6W Single	12W Double
	RAML7P53038-25	RABL0153038-25
Comparable to:	50W halogen	50W halogen
Total Power (W):	5.8	11.6
Total Light Output (lm):	510	1,070
Efficacy (lm/cctW):	89	93
Lifetime (hrs):	50,000	50,000
Beam Angle (deg):	38	38
Lux at 1m (lux):	1,090	1,120
CCT (K):	3000	3000
CRI:	>80	>80
Power Factor (PF):	0.9	0.9
Box Qty:	1	1
Weight (kg):	0.61	0.64



ZEBO LED WALL LIGHT

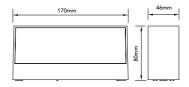


ZEBO LED WALL LIGHT

- · Polycarbonate diffuser providing a low glare uniform lighting solution
- Two horizontally opposed aluminium PCB's providing good heat dissipation for long LED life with no lamp changes
- · Easily accessible cover and diffuser screws and pre-formed drillable fixing points for fast and simple installation
- Suitable for switching by external PIR, Microwave or Photocelll

Standard	RZE940-24
Comparable to:	60W
Total Power (W):	9.3
Total Light Output (lm):	510
Efficacy (lm/cctW):	55
Lifetime (hrs):	30,000
Beam Angle (deg):	90
Lux at 1m (lux):	90
CCT (K):	4000
CRI:	85
Power Factor (PF):	0.5
Impact Rating (IK):	08
Box Qty:	1
Weight (kg):	0.34

DIMENSIONS (mm)	Height	Width	Depth
RZE940-24	46	170	80



















TRALEE WALL LIGHT





R135-13

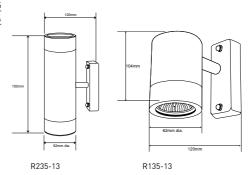
TRALEE 35W GU10 UP/DOWN WALL LIGHT

- Suitable for use with halogen and selected LED and CFL lamps
- 304 stainless steel
- Corrosion resistant
- Complete with ceramic GU10 lamp holders
- . IP44 sealing, for indoor & outdoor use
- Power consumption based on 35W halogen lamps

	Single	Double
B Chrome	R135-13	R235-13
Total Power (W):	35	2 x 35
Cap Type:	GU10	GU10
Weight (kg):	0.45	0.45
Box Qty:	4	4



DIMENSIONS (mm)	Diameter	Height	Depth
R135-13	62	104	120
R235-13	65	165	120



ECLIPSE LED WALL LIGHT



ECLIPSE 6W AND 12W LED WALL LIGHT

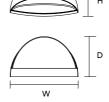
- LED replacement for 11W CFL wall lights
- · Die cast aluminium housing with polycarbonate diffuser
- · Powder coated using electrophoresis process for high corrosion resistance
- Wide operating ambient temperature range of -20°C to +40°C
- · Suitable for switching by external PIR, Microwave or Photocell

Warm White	REL0630-25	REL1230-25
Total Power (W):	6	12
Total Light Output (lm):	370	720
Efficacy (lm/cctW):	60	60
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	120	120
Lux at 1m (lux):	35	60
CCT (K):	3000	3000
CRI (Ra):	80	80
Power Factor (PF):	0.8	0.8
Impacting Rating (IK):	08	08
Weight (kg):	0.58	1.10
Box Qty:	1	1

CONVERSIONS AVAILABLE



DIMENSIONS (mm)	Hight	Width	Depth
REL0630-25	100	160	129
DEI 1220-25	1.0	2/.9	9.4





TWILIGHT LED WALL LIGHT





RTW0130SQ-24

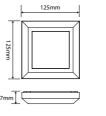
TWILIGHT 1W & 3W, SQUARE WALL LIGHT

- LED replacement for 10W & 30W halogen
- Low energy consumption, high lumen output
- · Weatherproof ABS housing
- Slim design surface mounted wall light, no cut holes required in the wall
- IP65 ideal for outdoor, lighting pathways

	1W	3 W
	RTW0130SQ-24	TRW0330SQ-24
Comparable to:	10W Halogen	30W Halogen
Total Power (W):	1	3.1
Total Light Output (lm):	40	190
Efficacy (lm/cctW):	40	61
Lifetime (hrs):	30,000	30,000
CCT (K):	3000	3000
Impacting Rating (IK):	07	07
Weight (kg):	0.18	0.20
Box Qty:	1	1



DIMENSIONS (mm)	Height	Width	Depth
RTW0130SQ-24	125	125	27
TRW0330SQ-24	125	125	27
125mm			





TRW0330SQ-24

RTW0130SQ-24

TWILIGHT LED WALL LIGHT





RTW0230C-24

RTW0330C-24

TWILIGHT 1W & 3W, CIRCULAR WALL LIGHT

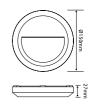
- Low energy consumption, high lumen output
- Weatherproof ABS housing
- Slim design surface mounted wall light, no cut holes required in the wall
- · IP65 ideal for outdoor, lighting pathways

	2W	3W
	RTW0230C-24	RTW0330C-24
Comparable to:	15W Halogen	30W Halogen
Total Power (W):	1.4	2.9
Total Light Output (lm):	54	180
Efficacy (lm/cctW):	39	62
Lifetime (hrs):	30,000	30,000
CCT (K):	3000	3000
Impacting Rating (IK):	07	07
Weight (kg):	0.19	0.21
Box Qty:	1	1



DIMENSIONS (mm)	Diameter	Depth
RTW0230C-24	150	27
RTW0330C-24	150	27





TWILIGHT LED WALL LIGHT







RTW0130RG-24

RTW0230RGL-24

RTW0330RG-24

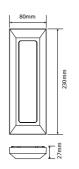
TWILIGHT 1W & 2W, RECTANGULAR WALL LIGHT

- Low energy consumption, high lumen output
- Weatherproof ABS housing
- Slim design surface mounted wall light, no cut holes required in the wall
- IP65 ideal for outdoor, lighting pathways

	1W	2W	3W
	RTW0130RG-24	RTW0230RGl-24	RTW0330RG-24
Comparable to:	10W Halogen	15W Halogen	30W Halogen
Total Power (W):	0.8	1.8	3.1
Total Light Output (lm):	20	72	170
Efficacy (lm/cctW):	25	40	55
Lifetime (hrs):	30,000	30,000	30,000
CCT (K):	3000	3000	3000
Impacting Rating (IK):	07	07	07
Weight (kg):	0.17	0.22	0.23
Box Qty:	1	1	1



DIMENSIONS (mm)	Height	Width	Depth
RTW0130SQ-24	200	80	27
RTW033SQ-24	80	230	27
RTW0330RG-24	80	230	27



LUNAR LED WALL LIGHT





LUNAR 7W LED WALL LIGHT

- Die-cast aluminium housing providing optimal heat dissipation and high resistance to weather conditions
- · Includes integrated driver
- No infra-red or ultra-violet in light beam, cool to touch and does not attract most flying insects
- Wide operating ambient temperature range of -20°C to +40°C
- Mounting stand-offs integrated into base to allow fitting onto uneven, pebble dash or rendered walls

Standard	RLN7302W-25	RLN7303W-25
Comparable to:	20W LV halogen	20W LV halogen
Total Power (W):	7.2	7.1
Total Light Output (lm):	310	310
Efficacy (lm/cctW):	43	44
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	110	360
CCT (K):	3000	3000
CRI:	80	80
Power Factor (PF):	0.9	0.9
Impact Rating (IK):	08	08
Box Qty:	1	1
Weight (kg):	0.54	0.55



DIMENSIONS (mm)	Diameter	Height	Width	Depth
RLN7302W-25	145	N/A	N/A	63

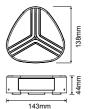
138

143 44

N/A



RLN7303W-25



RLN7302W-25

APEX LED WALL & SPIKE LIGHT





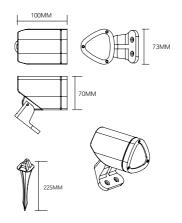
APEX 4.5W LED WALL & SPIKE LIGHT

- · Die cast aluminium housing with polycarbonate diffuser
- Powder coated using electrophoresis process for high corrosion resistance
- Head adjustable angle of 90°
- · Complete with stainless steel screws
- · Pre-wired with 1m rubber flex
- Wide operating ambient temperature range of -20°C to +40°C
- Suitable for switching by external PIR, Microwave or Photocell

Warm White	Neutral White
RAX4530-25	RAX4540-25
30W Halogen	30W Halogen
4.5	4.5
160	180
35	40
30,000	30,000
25	25
120	150
3000	4000
80	80
0.5	0.5
0.5	0.5
1	1
	RAX4530-25 30W Halogen 4.5 160 35 30,000 25 120 3000 80 0.5



DIMENSIONS (mm)	Length	Width	Height
RAX4540-25	100	73	70
RAX4530-25	100	73	70





JUPITER LED WALL LIGHT

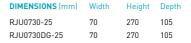


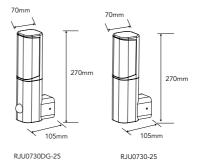
JUPITER 7W LED WALL LIGHT

- · Die cast aluminium housing with polycarbonate diffuser
- Powder coated using electrophoresis process for high corrosion resistance
- · Complete with stainless steel screws
- Wide operating ambient temperature range of -20°C to +40°C
- · Suitable for switching by external PIR, Microwave or Photocell

	Standard	PIR Version
	RJU0730-25	RJU0730DG-25
Comparable to:	40W Incandescent	40W Incandescent
Total Power (W):	7.1	7.1
Total Light Output (lm):	290	290
Efficacy (lm/cctW):	41	41
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	120	120
Lux at 1m (lux):	30	30
CCT (K):	3000	3000
CRI (Ra):	80	80
Power Factor (PF):	0.9	0.9
Impact Rating (IK)	08	08
Weight (kg):	0.8	0.8
Box Qty:	1	1







ORION LED WALL LIGHT



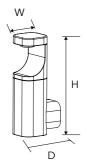
ORION 7W LED WALL LIGHT

- · Die cast aluminium housing with polycarbonate diffuser
- Powder coated using electrophoresis process for high corrosion resistance
- · Complete with stainless steel screws
- Wide operating ambient temperature range of -20°C to +40°C
- · Suitable for switching by external PIR, Microwave or Photocell

	RON0730-25
Comparable to:	40W Incandescent
Total Power (W):	7
Total Light Output (lm):	180
Efficacy (lm/cctW):	25
Lifetime (hrs):	30,000
Beam Angle (deg):	120
Lux at 1m (lux):	30
CCT (K):	3000
CRI (Ra):	80
Power Factor (PF):	0.8
Impact Rating (IK)	08
Weight (kg):	0.8
Box Qty:	1







JUPITER LED BOLLARD



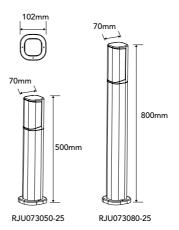
JUPITER 7W LED BOLLARD

- · Die cast aluminium housing with polycarbonate diffuser
- Powder coated using electrophoresis process for high corrosion registance.
- Complete with stainless steel screws
- Wide operating ambient temperature range of -20°C to +40°C
- · Suitable for switching by external PIR, Microwave or Photocell

Warm White	500mm	800mm
Dark Grey	RJU073050-25	RJU073080-25
Comparable to:	40W Incandescent	40W Incandescent
Total Power (W):	7.1	7.1
Total Light Output (lm):	290	290
Efficacy (lm/cctW):	41	41
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	120	120
Lux at 1m (lux):	30	30
CCT (K):	3000	3000
CRI (Ra):	80	80
Power Factor (PF):	0.9	0.9
Impacting Rating (IK):	08	08
Weight (kg):	1.2	2.0
Box Qty:	1	1



DIMENSIONS (mm)	Width	Height	Depth
RJU073050-25	70	500	70
RJU073080-25	70	800	70



ORION LED BOLLARD



ORION 7W LED BOLLARD

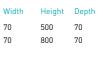
- · Die cast aluminium housing with polycarbonate diffuser
- · Powder coated using electrophoresis process for high corrosion
- Complete with stainless steel screws
- Wide operating ambient temperature range of -20°C to +40°C
- Suitable for switching by external PIR, Microwave or Photocell

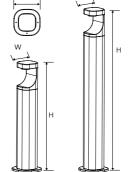
500mm	800mm
RON073050-25	RON073080-25
40W Incandescent	40W Incandescent
7	7
180	180
25	25
30,000	30,000
120	120
12	12
3000	3000
80	80
0.8	0.8
08	08
1.1	1.6
1	1
	40W Incandescent 7 180 25 30,000 120 12 3000 80 0.8

RON07	73080-25
	102

DIMENSIONS (mm)

RON073050-25





70

70



BEACON BOLLARD



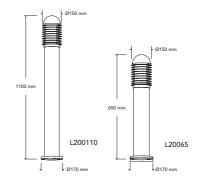
BEACON 60W ALUMINIUM BOLLARD

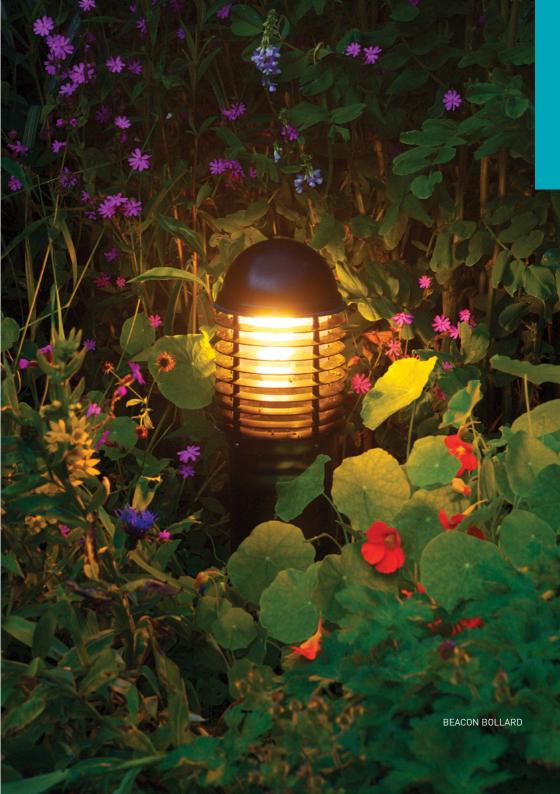
- · Complete with ceramic E27 lamp holder
- · Extruded aluminium base/main body with die cast dome
- Complete with stainless steel screws
- Wide operating ambient temperature range of -20°C to +40°C
- Suitable for switching by external PIR, Microwave or Photocell

	650mm	1100mm
	L20065	L200110
Total Power (W):	60	60
Cap Type:	E27	E27
Weight (kg):	1.3	1.3
Box Qty:	2	2



DIMENSIONS (mm)	Diameter Base	Diameter Dome	Height
L20065	170	150	600
L200110	170	150	1000





ORIENT LED COMMERCIAL BOLLARD







ORIENT, 20W 1800LM, 4000K, 630MM & 980MM FLAT TOP BOLLARD, BLACK

- · Die cast aluminium housing with PMMA diffuser
- · High quality powder coating process for high corrosion resistance
- Complete with stainless steel screws
- Wide operating ambient temperature range of -25°C > +40°C
- Suitable for switching by PIR, Microwave or Photocell sensors

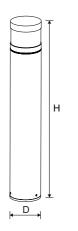




	630mm	980mm
	ROR204063	ROR204098
Comparable to:	120W halogen	120W halogen
Total Power (W):	20.5	20.5
Total Light Output (lm):	1,890	1,890
Efficacy (lm/cctW):	92	92
Lifetime (hrs):	50,000	50,000
Beam Angle (deg):	120	120
Lux at 1m (lux):	450	450
CCT (K):	4000	4000
CRI (Ra):	80	80
Power Factor (PF):	0.9	0.9
Impacting Rating (IK):	06	06
Weight (kg):	4.1	5.5
Box Qty:	1	1

5 ^{YRS}		92 LmW	7	
0P 100 240	ᆣ	IP 65	L2	PHOTO METRICS

DIMENSIONS (mm)	Diameter	Height
ROR204063	160	630
ROR204098	160	980





VITA CIRCULAR LED KIT



VITA LED CIRCULAR KIT

- LED replacement for halogen decking lights
- · Plug & Play kit containing 5 miniature fittings, each with 3 LEDs, 6W IP44 driver, cables and junction box
- · Stainless steel cowl and spring clips
- · Each fitting pre-wired with 5m cable
- · Wide operating ambient temperature range of -20°C to +40°C

	5 fittings	10 fittings
White LEDs	R3LED5S-01	R3LED10S-01
Blue LEDs	R3LED5S-07	R3LED10S-07
Warm White LEDs		R3LED10SWW-01
Total Power (W):	1.8	3.6
Weight (kg):	1.4	1.8
Box Qty:	1	1

DIMENSIONS (mm) Diameter Cut-out Depth R3LED5S-01/07 30 24 25 R3LED10S-01/07 30 24 25 R3LED10SWW-01 24 25 30

Note: Warm white also available, R3LED10SWW-01

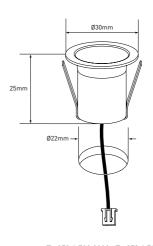












TIBO LED BRICK LIGHT



TIBO LED BRICK LIGHT

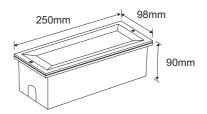
- Dark grey powder coated high quality die-cast aluminium finish with minimal cleaning or maintenance
- · Polycarbonate diffuser providing low glare and wide beam angle
- Complete with polycarbonate mounting sleeve
- Wide operating temperature of -20°C to +40°C
- High efficiency integral driver
- Double entry breakouts at both ends of sleeve to provide easy loop in/loop out cable function

Standard	RTI1330-25
Comparable to:	50W halogen
Total Power (W):	12.9
Total Light Output (lm):	540
Efficacy (lm/cctW):	42
Lifetime (hrs):	30,000
Beam Angle (deg):	100
Lux at 1m (lux):	220
CCT (K):	3000
CRI (Ra):	80
Power Factor (PF):	0.9
Impacting Rating (IK):	08
Weight (kg):	0.85
Box Qty:	1









ZERO LED GROUND LIGHT



ZERO LED CIRCULAR DRIVE-OVER GROUND LIGHT

- · LED replacement for halogen drive-over lights
- Suitable for loads up to 3.5 tonnes
- 316 marine grade stainless steel front plate with very high resistance to corrosion
- · 8mm hardened glass
- · Die cast aluminium housing
- Complete with plastic sleeve for sitting into brickwork/concrete
- Sleeve depth 130mm
- 2 cable entry points for loop in/loop out wiring
- Wide operating ambient temperature range of -20°C to +40°C

	R21LEDS-01
Total Power (W):	4.2
Total Light Output (lm):	90
CCT (K):	6000
Weight (kg):	2.2
Box Qty:	1

DIMENSIONS (mm)	Diameter	Cut-out fitting		Depth
R21LEDS-01	163	115	160	130







ASYMMETRIC LED GROUND LIGHT



ASYMMETRIC LED DRIVE-OVER GROUND LIGHT

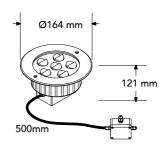
- · 45° angle elevation, 25° beam width
- Suitable for loads up to 3 tonnes load at 15km/h
- · Stainless steel front plate with very high resistance to corrosion
- · 5mm hardened glass
- · Die cast aluminium housing
- Complete with plastic sleeve for sitting into brickwork/concrete with depth of 110mm
- Complete with IP67 loop-in loop-out T connector and mounting sleeve
- . 0.5m flex between fitting and junction box
- Wide operating ambient temperature range of -20°C to +40°C

6 x 3W LEDS	R18ASGL
Total Power (W):	14
Total Light Output (lm):	910
Efficacy (lm/cctW):	65
CCT (K):	3000
CRI (Ra):	65
Weight (kg):	1.6
Box Qty:	1









EWOK LED GROUND LIGHTS





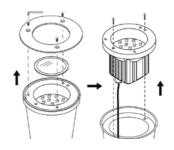
EWOK LED MAINS GROUND LIGHT

- 316 marine grade stainless steel front plate with very high resistance to corrosion
- Die cast aluminium housing
- R6LED240S requires a 50mm PVC sleeve when installed in concrete
- R10LED240S requires a 100mm cut out, however it comes with mounting sleeve and when this is used, the cut out is 105mm.
- · Suitable for walk-over application
- Pre-wired with 3m rubber flex
- Wide operating ambient temperature range of -20°C to +40°C

Daylight White	6 LEDs	10 LEDs
	R6LED240S-01	R10LED240S-01
	R6LED240S-07	R10LED240S-07
Total Power (W):	0.7	1.5
Total Light Output (lm):	21	50
Lifetime (hrs):	30,000	30,000
Lux at 1m (lux):	10	15
CCT (K):	6000	6000
CRI (Ra):	75	75
Weight (kg):	0.4	0.7
Box Qty:	1	1



DIMENSIONS (mm)	Diameter	Depth	Cut-out
R6LED240S-01/07	60	98	50
R10LED240S-01/07	118	122	100



LED GARDEN SPIKES / SPOTLIGHTS



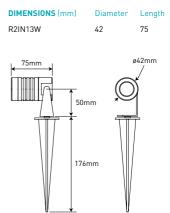


DUET 2IN1 LED SPIKE AND WALL MOUNT FITTING

- LED replacement for 20W halogen
- · Aluminium housing with polycarbonate lens
- Head adjustable angle of 180°
- Complete with stainless steel screws
- · Pre-wired with 1.5m rubber flex
- Wide operating ambient temperature range of -20°C to +40°C

	R2IN13W
Total Power (W):	4.4
Total Light Output (lm):	220
Efficacy (lm/cctW):	50
CCT (K):	3000
CRI (Ra):	80
Weight (kg):	0.3
Box Qty:	1





LED GARDEN SPIKES / SPOTLIGHTS







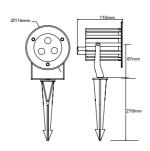
TRINITY 3IN1 LED SPIKE AND WALL MOUNT FITTING

- LED replacement for 20W Halogen
- 316 marine grade stainless steel front plate with very high resistance to corrosion
- . Die cast aluminium housing with hardened glass
- · Complete with stainless steel screws
- Complete with plastic sleeve for sitting into brickwork/concrete
- · Suitable for walk over applications
- · Pre-wired with 1.5m rubber flex
- Wide operating ambient temperature range of -20°C to +40°C

	R3IN13W
Total Power (W):	4
Total Light Output (lm):	195
Efficacy (lm/cctW):	49
CCT (K):	3000
CRI (Ra):	70
Weight (kg):	1.3
Box Qty:	1



DIMENSIONS (mm)	Diameter	Cut-out fitting		Depth
R3IN13W	116	95	105	110



LED GARDEN SPIKES / SPOTLIGHTS



LEE GARDEN SPIKE

- Complete with ceramic GU10 lamp holder
- Die cast aluminium housing with glass front
- · Complete with stainless steel screws
- Wide operating ambient temperature range of -20°C to +40°C
- Pre-wired with 1m rubber flex

	Mains Voltage
	LS50GU-04
Total Power (W):	50
Cap Type:	GU10
Weight (kg):	0.5
Box Qty:	1







GARDEN SPIKES AND SPOTLIGHTS



CORK GU10 SPIKE C/W ADJUSTABLE SLOPED HEAD

- Complete with ceramic GU10 lamp holder
- Die cast aluminium housing with glass front
- · Complete with stainless steel screws
- Large terminal block and double cable entry allows loop-in/loop-out
- Wide operating ambient temperature range of -20°C to +40°C

Black	R5088S-04
Satin Silver	R5088S-15
Total Power (W):	50
Cap Type:	GU10
Weight (kg):	0.6
Box Qty:	1



DIMENSIONS (mm)	Diameter	Height	Width
LS50GU-04/15	98	280	95

GARDEN SPIKES AND SPOTLIGHTS



INIS GU10 SPIKE/WALL LIGHT WITH ADJUSTABLE TAPERED HEAD

- Suitable for use with 50W Halogen or selected LED or CFL lamps
- · Complete with ceramic GU10 lamp holder
- · Die cast aluminium housing with glass front
- · Complete with stainless steel screws
- Large terminal block and double cable entry allows loop-in/loop-out
- Wide operating ambient temperature range of -20°C to +40°C

	Spike	Wall
Black	R5082T-04	R5082TW-04
Satin Silver	R5082T-15	R5082TW-15
Total Power (W):	50	50
Cap Type:	GU10	GU10
Weight (kg):	0.6	0.5
Box Qty:	1	1





OUTDOOR ACCESSORIES



LED SUPPLY TRANSFORMER 12W, IP44

- 2m cable
- Range 0-12W, 12V SELV output
- Thermal protection

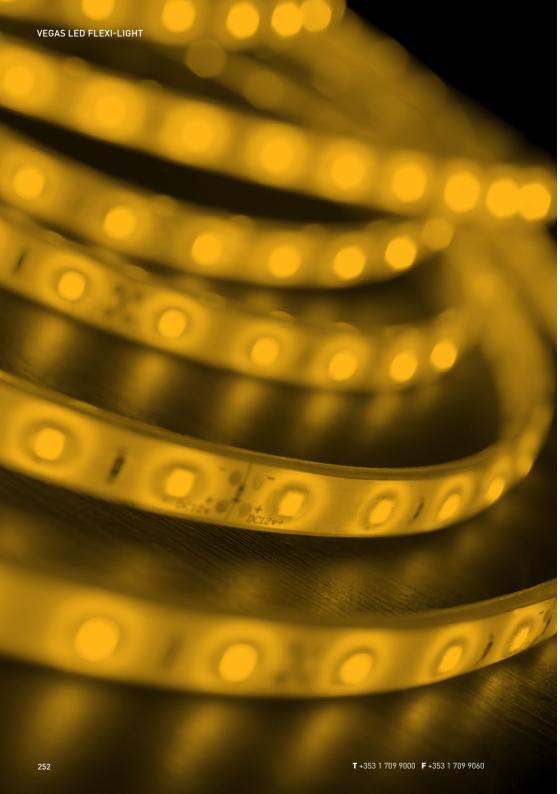
R12WLEDT
12
0.75
4



DIMENSIONS (mm)	Cable length
R12WLEDT	2000



COPK GIII0 spika



VEGAS 12V & 24V LED FLEXI-STRIP	258
PULSE 12VDC LED FLEXI-STRIP KIT	286
EXTRUSIONS FOR LED FLEXI-STRIP	288

WHY VEGAS LED FLEXI-STRIP?

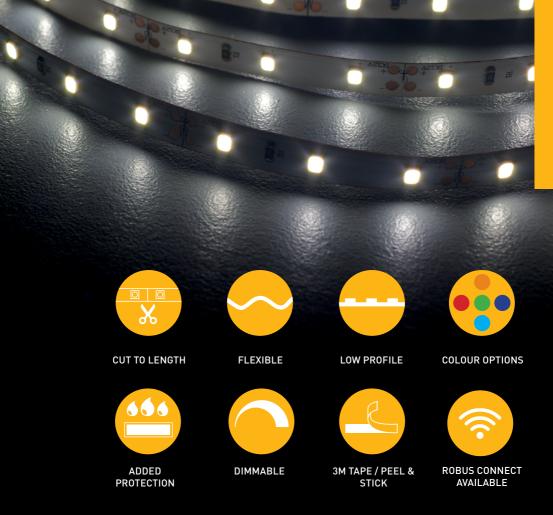
FEATURES AND BENEFITS

- Flexi-strip available in low (30LED/m), standard (60LED/m) and high (120LED/m) density format using high efficiency SMD LED (5050 or 2835)
 Provides high brightness and uniform light distribution
- Low Power Consumption (4.8W/m, 7.2W/m, 9.6W/m, 12W/m, 14.4W/m)
 Helps to save energy tremendous lighting effects can be achieved at very low running costs
- Cool running with no ultra violet or infra-red in the light beam Will not burn, damage or fade leaves, flowers or other sensitive displays
- 3 years ROBUS warranty / 30,000 hours rated LED life Provides over 10 years' service at 5 hours per day

- Range of control components available (drivers / controllers / amplifiers)
 Bespoke designs & controls can be achieved
- Additional connector packs and IP rated boxes with 4 terminal connector block (for waterproof LED strip)
 Can be used where strip is cut and joined into multiple short lengths / Suitable for control component or wiring joins where conditions are not dry
- Aluminum extrusions
 accessories
 Help to achieve continuous light
 line, gives nice aesthetics and
 helps to protect LED strip

TRUST ROBUS

TO GIVE YOU
THE BEST QUALITY
PRODUCT



VEGAS CUTTING STATION FOR VEGAS LED FLEXI-STRIP

EU REGISTERED DESIGN APPROVED



VEGAS CUT-TO-LENGTH SERVICE & VEGAS CALCULATOR



OUR ROBUS CUSTOMISED CONVERSIONS TECHNICIANS WILL MODIFY YOUR ROBUS VEGAS LED FLEXI-STRIP LIGHTS TO MEET YOUR INDIVIDUAL PROJECT REQUIREMENTS. THEY WILL:



- Cut, solder and heat-shrink LED Flexi-strip light to the lengths you require
- Include a specific lead length on request (standard lead length 1m)
- Wire drivers
- Customise any LED Flexi-strip light to enable Emergency, Analogue Dimming, DALI Dimming and Switch Dim (Emergency 10M MAX Single Colour, DALI, Analogue and Switch Dimming 5M MAX Single Colour)
- Provide after sales technical support
- Goods can be dispatched to branch or end user and can be packed per specific room requirement

To avail of this fantastic service please contact your local ROBUS Area Sales Manager or our ROBUS Customised Conversions Team

Tel:

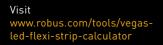
+353 1 709 9000 (option 2) Email: conversions requests @ robus.com

TURN AROUND TIME 3-5 WORKING DAYS



ROBUS NOW HAVE AN ONLINE TOOL DESIGNED TO MAKE FITTING OUT LED FLEXI STRIP LIGHTING PROJECTS EASIER AND FASTER.

The ROBUS VEGAS LED Flexi-Strip Calculator is an easy stepby-step online tool designed to help you quickly generate a list of parts needed to complete lighting projects using ROBUS VEGAS LED flexi-strip.









- First, select the type of VEGAS LED Flexi-Strip by filtering list of available products by their IP rating, number of colours and colour temperature.
- Based on your choice of ROBUS VEGAS LED Flexi-Strip and the length of the strip, the VEGAS LED Flexistrip Calculator will return the optimum number of drivers, amplifiers and controllers to meet your project requirements.
- 3. Your choice of suitable controller can turn your project to a real lighting experience. You can choose between a wall panel, a remote controller or a WIFI controller. For CCT1 strips a dimmer switch is also available.
- Select from a range of aluminium extrusions to add to protection and style of your LED strips.
- Accessories, such as easy clips, glue and heat shrink are also available. You can type in the quantities you need, and you're done.

^{*}When ordering Cut To Length service, add CUT to order code, e.g. RVA96302050-CUT / -CUT-SINGLE / -CUT-RGBW / -CUTRGB

LED FLEXI-STRIP VEGAS 12V LED WHITE



VEGAS 12V, 4.8W/M LED WHITE FLEXI-STRIP, non-waterproof and waterproof

- Low power consumption of 4.8W per meter
- · Cutting points every 3 LEDs / 5cm
- Requires 12V LED driver (sold separately)
- Voltage drop of 2.86V per 10m and maximum continuous run of 10m
- For runs over 10m individual lengths should be connected in parallel
- 50m IP20 non-waterproof and 30m IP67 waterproof versions available
- Available in warm white and neutral white
- Easy clip connector packs available as accessories, see pages 284-285



DIMENSIONS(mm)	Width	Length	Height
RVA48302050	8	50,000	1.5
RVA48402050	8	50,000	1.5
RVA48306730	10	30,000	3
RVA48406730	10	30,000	3



	RVA48302050	RVA48402050	RVA48306730	RVA48406730
	Warm White	Neutral White	Warm White	Neutral White
	Non-Waterproof	Non-Waterproof	Waterproof	Waterproof
Total Power (W/m):	4.8	4.8	4.8	4.8
Total Voltage (V):	12	12	12	12
Total Light Output (lm/M):	500	510	480	510
Lifetime (hrs):	30,000	30,000	30,000	30,000
Beam Angle (deg):	120	120	120	120
CCT (K):	3000	4000	3000	4000
CRI (Ra):	80	80	80	80
LEDs per metre:	60	60	60	60
Box Qty:	1	1	1	1
Weight per 1m (kg):	0.02	0.02	0.06	0.06

















LED FLEXI-STRIP VEGAS 24V LED WHITE





VEGAS 24V, 9.6W/M LED WHITE FLEXI-STRIP, non-waterproof and waterproof

- · Low power consumption of 9.6W per meter
- · Cutting points every 6 LEDs / 5cm
- · Requires 24V LED driver (sold separately)
- Voltage drop of 4V per 10m and maximum continuous run of 10m
- For runs over 10m individual lengths should be connected in parallel
- 50m IP20 non-waterproof and 30m IP67 waterproof versions available
- Available in warm white and neutral white
- Easy clip connector packs available as accessories, see pages 284-285



DIMENSIONS(mm)	Width	Length	Height
RVA96302050	8	50,000	1.5
RVA96402050	8	50,000	1.5
RVA96306730	10	30,000	3
RVA96406730	10	30,000	3



	RVA96302050	RVA96402050	RVA96306730	RVA96406730
	Warm White	Neutral White	Warm White	Neutral White
	Non-Waterproof	Non-Waterproof	Waterproof	Waterproof
Total Power (W/m):	9.6	9.6	9.6	9.6
Total Voltage (V):	24	24	24	24
Total Light Output (lm/M):	1,070	1,075	990	995
Lifetime (hrs):	30,000	30,000	30,000	30,000
Beam Angle (deg):	120	120	120	120
CCT (K):	3000	4000	3000	4000
CRI (Ra):	80	80	80	80
LEDs per metre:	120	120	120	120
Box Qty:	1	1	1	1
Weight per 1m (kg):	0.02	0.02	0.06	0.06

















VEGAS 12V & 24V LED RGB





VEGAS 12V & 24V, 7.2W/M & 14.4W/M LED RGB FLEXI-STRIP LIGHT, non-waterproof and waterproof

- VEGAS RGB colour changing SMD5050 LED flexi-strip with $3M^{\text{TM}}$ self-adhesive tape
- Power consumption of 7.2W & 14.4W per meter
- . Cutting points every 3 LEDs for 12V and 6 LEDs for 24V
- Requires 12V or 24V LED driver (sold separately)
- Voltage drop of 3.5V per 10m and maximum continuous run of 5m
- For runs over 5ms individual lengths should be connected in parallel
- Easy clip connector packs available as accessories, see pages 284-285



DIMENSIONS(mm)	Width	Length	Height
RVA72RGB2050	10	50,000	1.5
RVA14RGB2050	10	50,000	1.5
RVA72RGB6730	12	30,000	3
RVA14RGB6730	12	30,000	3



	RVA72RGB2050	RVA72RGB6730	RVA14RGB2050	RVA14RGB6730
	RGB	RGB	RGB	RGB
	Non-Waterproof	Waterproof	Non-Waterproof	Waterproof
Total Power (W/m):	7.2	7.2	14.4	14.4
Total Voltage (V):	12	12	24	24
Lifetime (hrs):	30,000	30,000	30,000	30,000
Beam Angle (deg):	120	120	120	120
CRI (Ra):	80	80	80	80
LEDs per metre:	30	30	60	60
Box Qty:	1	1	1	1
Weight (kg):	0.02	0.02	0.06	0.06



VEGAS 24V LED RGBW





VEGAS 24V, 12W/M LED RGB & WHITE FLEXI-STRIP, non-waterproof and waterproof

- · Power consumption of 12W per meter
- Cutting points every 6 LEDs / 10 cm
- Requires 24V LED driver (sold separately)
- Voltage drop of 4.5V per 10m and maximum continuous run of 5m
- For runs over 5m individual lengths should be connected in paralle
- Easy clip connector pack available as accessories, see pages 284-285



DIMENSIONS(mm)	Width	Length	Height
RVA12RGBW2030-30	12	30,000	2
RVA12RGBW2030-40	12	30,000	2
RVA12RGBW6710-30	14	10,000	4
RVA12RGBW6710-40	14	10,000	4



	RVA12RGBW2030-30	RVA12RGBW2030-40	RVA12RGBW6710-30	RVA12RGBW6710-40
	RGB + 3000K	RGB + 4000K	RGB + 3000K	RGB + 4000K
	Non-Waterproof	Non-Waterproof	Waterproof	Waterproof
Total Power (W/m):	12	12	12	12
Total Voltage (V):	24	24	24	24
Lifetime (hrs):	30,000	30,000	30,000	30,000
Beam Angle (deg):	120	120	120	120
Colour:	RGB + 3000K	RGB + 4000K	RGB + 3000K	RGB + 4000K
CRI (Ra):	80	80	80	80
LEDs per metre:	60	60	60	60
Box Qty:	1	1	1	1
Weight per roll (kg):	1.2	1.2	0.08	0.08



VEGAS 12V & 24V TUNABLE WHITE





VEGAS 12V & 24V TUNABLE WHITE

- VEGAS Tunable White SMD2835 LED flexi-strip allows any colour temperature between 2700K and 6500K to be selected
- 3M self-adhesive tape
- Power consumption of 9.6W/m & 19.2W/m per meter
- · Cutting points every 5 cm for 12V and 8.3cm for 24V
- · Requires 12V or 24V LED driver (sold separately)
- For runs over 5ms individual lengths should be connected in parallel
- Easy clip connector packs available as accessories, see pages 283





DIMENSIONS (mm)	Width	Length	Height
RVA96CCT22050	10	50,000	2
RVA96CCT26730	12	30,000	2
RVA192CCT22050	10	50,000	4
RVA192CCT26730	12	30,000	4

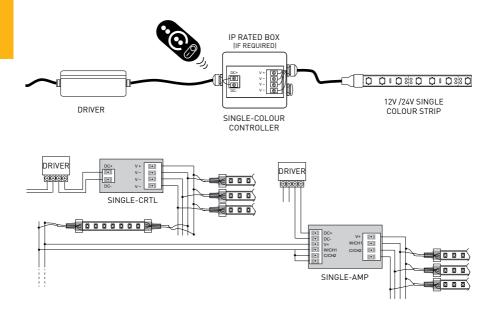


	RVA96CCT22050	RVA96CCT26730	RVA192CCT22050	RVA192CCT26730
Total Power (W/m):	6.2/5.7	6/6.1	12/11.2	11.7/11.8
Total Light Output (lm/m):	2700K: 540LM 6500K: 520LM	2700K: 440LM 6500K: 430LM	2700K: 1000LM 6500K: 940LM	2700K: 830LM 6500K: 800LM
Total Voltage (V):	12	12	24	24
Lifetime (hrs):	30,000	30,000	30,000	30,000
Beam Angle (deg):	120	120	120	120
CCT:	2700-6500K	2700-6500K	2700-6500K	2700-6500K
CRI (Ra):	80	80	80	80
LEDs per metre:	120	120	120	120
Box Qty:	1	1	1	1
Weight per roll (kg):	1.05	2.1	1.2	2.5



VEGAS 12V LED WHITE

HOW TO CONNECT 12V VEGAS SINGLE COLOUR LED FLEXI-STRIP WITH CONTROLLER AND POWER SUPPLY



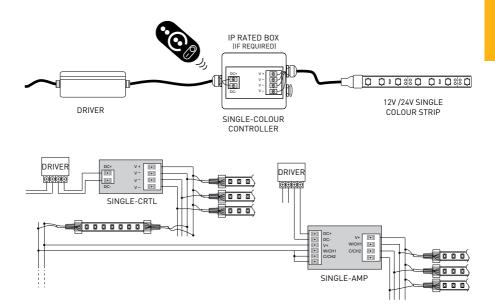
EXAMPLE INSTALLATION SINGLE COLOUR CONTROLLER - 10M VEGAS IP20 4.8W/M STRIP								
	CODE	2M	5M	10M	11-20M	21-30M	31-40M	41-50M
LED Strip	RVA48X02050	1	1	1	2	3	4	5
Single Colour Controller	RVACCT1-CRTL	1	1	1	1	1	1	1
Single Colour Amplifier	RVACCT1-AMP	0	0	0	1	2	3	4
12V CV Non-Dim LED Driver 15W	RVA1512-PSU	1	0	0	0	0	0	0
12V CV Non-Dim LED Driver 30W	RVA3012-PSU	0	1	0	0	0	0	0
12V CV Non-Dim LED Driver 60W	RVA6012-PSU	0	0	1	2	3	4	5

Note: Controller and amplifier only required for white flexi-strip that is to be dimmed.

EXAMPLE INSTALLATION SINGLE COLOUR CONTROLLER - 10M VEGAS 4.8W/M 12V STRIP IP67									
	CODE	2M	5M	10M	11-20M	21-30M	31-40M	41-50M	
LED Strip	RVA48X06730	1	1	1	2	3	4	5	
Single Colour Controller	RVACCT1-CRTL	1	1	1	1	1	1	1	
Single Colour Amplifier	RVACCT1-AMP	0	0	0	1	2	3	4	
12V CV Non-Dim LED Driver 60W IP67	RVA6012IP67-PSU	1	1	1	2	3	4	5	
IP Rated Box	RVBIP2	1	1	1	2	3	4	5	

VEGAS 24V LED WHITE

HOW TO CONNECT 24V VEGAS SINGLE COLOUR LED FLEXI-STRIP WITH CONTROLLER AND POWER SUPPLY



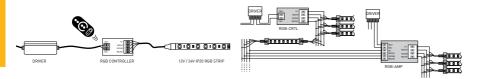
EXAMPLE INSTALLATION SINGLE COLOUR CONTROLLER - 10M VEGAS IP20 9.6W/M STRIP									
	CODE	2M	5M	10M	11-20M	21-30M	31-40M	41-50M	
LED Strip	RVA96X02050	1	1	1	2	3	4	5	
Single Colour Controller	RVACCT1-CRTL	1	1	1	1	1	1	1	
Single Colour Amplifier	RVACCT1-AMP	0	0	0	1	2	3	4	
24V CV Non-Dim LED Driver 30W	RVA3024-PSU	1	0	0	0	0	0	0	
24V CV Non-Dim LED Driver 60W	RVA6024-PSU	0	1	0	0	0	0	0	
24V CV Non-Dim LED Driver 100W	RVA10024-PSU	0	0	1	2	3	4	5	

Note: Controller and amplifier only required for white flexi-strip that is to be dimmed.

EXAMPLE INSTALLATION SINGLE COLOUR CONTROLLER - 10M VEGAS 4.8W/M 12V STRIP IP67									
	CODE	2M	5M	10M	11-20M	21-30M	31-40M	41-50M	
LED Strip	RVA96X06730	1	1	1	2	3	4	5	
Single Colour Controller	RVACCT1-CRTL	1	1	1	1	1	1	1	
Single Colour Amplifier	RVACCT1-AMP	0	0	0	1	2	3	4	
24V CV Non-Dim LED Driver 50W IP67	RVA6024IP67-PSU	1	1	1	2	3	4	5	
IP Rated Box	RVBIP2	1	1	1	2	3	4	5	

VEGAS 24V RGB LED

HOW TO CONNECT 12V/24V VEGAS RGB LED FLEXI-STRIP WITH CONTROLLER AND POWER SUPPLY



Note: The signal to the amp can come from any part of the system where the RGB and common are available.

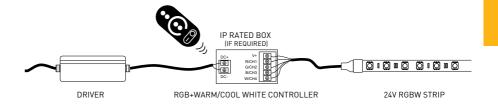
EXAMPLE INSTALLATION RGB CONTROLLER - 5M VEGAS RGB IP20 7.2W/M 12V STRIP									
	CODE	2M	5M	10M	11-15M	16-20M	21-25M	26-30M	
LED Strip	RVA72RGB2050	1	1	2	3	4	5	6	
RGB Controller	RVARGB-CRTL	1	1	1	1	1	1	1	
RGB Amplifier	RVARGB-AMP	0	0	1	2	3	4	5	
12V CV Non-Dim LED Driver 30W	RVA3012-PSU	1	0	0	0	0	0	0	
12V CV Non-Dim LED Driver 60W	RVA6012-PSU	0	1	2	3	4	5	6	

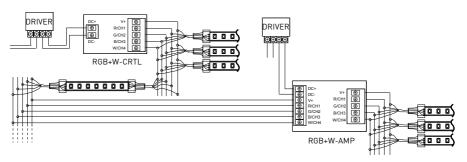
EXAMPLE INSTALLATION RGB CONTROLLER - 5M VEGAS RGB IP20 14.4W/M 24V STRIP									
	CODE	2M	5M	10M	11-15M	16-20M	21-25M	26-30M	
LED Strip	RVA14RGB2050	1	1	2	3	4	5	6	
RGB Controller	RVARGB-CRTL	1	1	1	1	1	1	1	
RGB Amplifier	RVARGB-AMP	0	0	1	2	3	4	5	
24V CV Non-Dim LED Driver 30W	RVA3024-PSU	1	0	0	0	0	0	0	
24V CV Non-Dim LED Driver 100W	RVA10024-PSU	0	1	2	3	4	5	6	

EXAMPLE INSTALLATION RGB CONTROLLER - 5M VEGAS RGB 7.2W/M 12V STRIP IP67									
	CODE	2M	5M	5-10M	11-15M	16-20M	21-25M	26-30M	
LED Strip	RVA72RGB6730	1	1	2	3	4	5	6	
RGB Controller	RVARGB-CRTL	1	1	1	1	1	1	1	
RGB Amplifier	RVARGB-AMP	0	0	1	2	3	4	5	
12V CV Non-Dim LED Driver 60W IP67	RVA6012IP67-PSU	1	1	2	3	4	5	6	
IP Rated Box	RVBIP2	1	1	2	3	4	5	6	

EXAMPLE INSTALLATION RGB CONTROLLER - 5M VEGAS RGB 14.4W/M 24V STRIP IP67									
	CODE	2M	5M	5-10M	11-15M	16-20M	21-25M	26-30M	
LED Strip	RVA14RGB6730	1	1	2	3	4	5	6	
RGB Controller	RVARGB-CRTL	1	1	1	1	1	1	1	
RGB Amplifier	RVARGB-AMP	0	0	1	2	3	4	5	
24V CV Non-Dim LED Driver 60W IP67	RVA6024IP67-PSU	1	0	0	0	0	0	0	
24V CV Non-Dim LED Driver 100W IP67	RVA10024IP67-PSU	0	1	2	3	4	5	6	
IP Rated Box	RVBIP2	1	1	2	3	5	5	6	

HOW TO CONNECT 24V VEGAS RGBW LED FLEXI-STRIP WITH CONTROLLER AND POWER SUPPLY





Note: The signal to the amp can come from any part of the system where the RGBW and common are available.

EXAMPLE INSTALLATION RGBW CONTROLLER - 5M VEGAS RGBW 12W/M 24V STRIP IP67									
	CODE	2M	5M	5-10M	11-15M	16-20M	21-25M	26-30M	
LED Strip	RVA12RBW6710-x0	1	1	2	3	4	5	6	
RGBW Controller	RVARGBW-CRTL	1	1	1	1	1	1	1	
RGBW Amplifier	RVARGBW-AMP	0	0	1	2	3	4	5	
24V CV Non-Dim LED Driver 60W IP67	RVA6024IP67-PSU	1	0	0	0	0	0	0	
24V CV Non-Dim LED Driver 100W IP67	RVA10024IP67-PSU	0	1	2	3	4	5	6	
IP Rated Box	RVBIP2	1	1	2	3	4	5	6	

EXAMPLE INSTALLATION RGBW CONTROLLER - 5M VEGAS RGBW 12W/M 24V STRIP IP67									
	CODE	2M	5M	5-10M	11-15M	16-20M	21-25M	26-30M	
LED Strip	RVA12RBW2030-x0	1	1	2	3	4	5	6	
RGBW Controller	RVARGBW-CRTL	1	1	1	1	1	1	1	
RGBW Amplifier	RVARGBW-AMP	0	0	1	2	3	4	5	
24V CV Non-Dim LED Driver 60W IP67	RVA6024-PSU	1	0	0	0	0	0	0	
24V CV Non-Dim LED Driver 100W IP67	RVA10024-PSU	0	1	2	3	4	5	6	

VEGAS LED DRIVERS



VEGAS LED FLEXI-STRIP IP20 CONSTANT VOLTAGE NON-DIMMABLE DRIVERS

12V Non-Dimmable Drivers

	15W	30W	60W	100W	180W
	RVA1512-PSU	RVA3012-PSU	RVA6012-PSU	RVA10012-PSU	RVA18012-PSU
Total Power (W):	15	30	60	100	180
Total Voltage (V):	12VDC	12VDC	12VDC	12VDC	12VDC
Weight (kg):	0.04	0.12	0.22	0.37	0.41



24V Non-Dimmable Drivers

	15W	30W	60W	100W
	RVA1524-PSU	RVA3024-PSU	RVA6024-PSU	RVA10024-PSU
Total Power (W):	15	30	60	100
Total Voltage (V):	24VDC	24VDC	24VDC	24VDC
Weight (kg):	0.04	0.12	0.22	0.37



24V Non-Dimmable Drivers

	150W	250W	320W
	RVA15024-PSU	RVA25024-PSU	RVA32024-PSU
Total Power (W):	150	250	320
Total Voltage (V):	24VDC	24VDC	24VDC
Weight (kg):	0.41	0.42	0.44



DIMENSIONS(mm)	Width	Length	Height
RVA1512-PSU	35	103	16
RVA3012-PSU	40	149	27
RVA6012-PSU	45	170	28
RVA10012-PSU	65	180	31
RVA18012-PSU	67	183	31
RVA1524-PSU	35	103	16
RVA3024-PSU	40	149	27
RVA6024-PSU	45	170	28
RVA10024-PSU	65	180	31
RVA15024-PSU	66	180	31
RVA25024-PSU	62	195	36
RVA32024-PSU	78	215	35

VEGAS LED DRIVERS ROBUS ROBU

VEGAS LED FLEXI-STRIP IP20 TRIAC DIMMABLE DRIVERS

12V Dimmable Drivers (dimmable with traditional wall mounted dimmer switch)

	30W	50W	75W
	RVA3012DU-PSU	RVA5012DU-PSU	RVA7512DU-PSU
Total Power (W):	30	50	75
Total Voltage (V):	12VDC	12VDC	12VDC
Weight (kg):	0.12	0.21	0.3



24V Dimmable Drivers (dimmable with traditional wall mounted dimmer switch)

	30W	50W	75W
	RVA3024DU-PSU	RVA5024DU-PSU	RVA7524DU-PSU
Total Power (W):	30	50	75
Total Voltage (V):	24VDC	24VDC	24VDC
Weight (kg):	0.12	0.21	0.3



DIMENSIONS(mm)	Width	Length	Height
RVA3012DU-PSU	46	158	18
RVA5012DU-PSU	46	158	18
RVA7512DU-PSU	56	170	31
RVA3024DU-PSU	46	158	18
RVA5024DU-PSU	46	158	18
RVA7524DU-PSU	59	170	31

Note: VEGAS dimmable drivers do not work with VEGAS CONNECT and PULSE CONNECT controllers

VEGAS LED DRIVERS



VEGAS LED FLEXI-STRIP IP67 CONSTANT VOLTAGE NON-DIMMABLE DRIVERS

12V Non-Dimmable Drivers

	60W	100W	200W
	RVA6012IP67-PSU	RVA10012IP67-PSU	RVA20012IP67-PSU
Total Power (W):	60	100	200
Total Voltage (V):	12VDC	12VDC	12VDC
Weight (kg):	0.53	0.58	0.80



24V Non-Dimmable Drivers

	60W	100W	200W
	RVA6024IP67-PSU	RVA10024IP67-PSU	RVA20024IP67-PSU
Total Power (W):	60	100	200
Total Voltage (V):	24VDC	24VDC	24VDC
Weight (kg):	0.53	0.58	0.80



DIMENSIONS(mm)	Width	Length	Height
RVA6012IP67-PSU	42	216	30
RVA10012IP67-PSU	46	212	38
RVA20012IP67-PSU	46	212	38
RVA6024IP67-PSU	42	216	30
RVA10024IP67-PSU	46	212	38
RVA20024IP67-PSU	46	212	38



LED FLEXI-STRIP DRIVER COMPATIBILITY LIST

DRIVER COMPATIBILITY LIST DRIVER COMPATIBILITY LIST FOR SINGLE COLOUR LED FLEXI-STRIP

DIMMABLE 12V, IP20 FOR SINGLE CO	LOUR 4.8W/M LED FLEXI-STRIP	
CODE	DESCRIPTION	METERS PER DRIVER
RVA3012DU-PSU	VEGAS 30W, 12V, IP20 driver, triac dimmable	1m – 6m
RVA5012DU-PSU	VEGAS 50W, 12V, IP20 driver, triac dimmable	7m – 10m
RVA7512DU-PSU	VEGAS 75W, 12V, IP20 driver, triac dimmable	11m – 15m
DIMMABLE 24V, IP20 FOR SINGLE CO	LOUR 9.6W/M LED FLEXI-STRIP	
DIMMABLE 24V, IP20 FOR SINGLE CO	LOUR 9.6W/M LED FLEXI-STRIP DESCRIPTION	METERS PER DRIVER
	<u> </u>	METERS PER DRIVER 1m - 3m
CODE	DESCRIPTION	

NON-DIMMABLE 12	/, IP20 FOR SINGLE COLOUR 4.8W/M LED FLEXI-STRIP	
CODE	DESCRIPTION	METERS PER DRIVER
RVA1512-PSU	VEGAS 15W, 12V, IP20 constant voltage driver, non-dimmable	1m – 3m
RVA3012-PSU	VEGAS 30W, 12V, IP20 constant voltage driver, non-dimmable	4m – 6m
RVA6012-PSU	VEGAS 60W, 12V, IP20 constant voltage driver, non-dimmable	7m – 12m
RVA10012-PSU	VEGAS 100W, 12V, IP20 constant voltage driver, non dimmable	13m – 20m
RVA18012-PSU	VEGAS 180W, 12V, IP20 constant voltage driver, non dimmable	21m – 37m
NON-DIMMABLE 24	, IP20 FOR SINGLE COLOUR 9.6W/M LED FLEXI-STRIP	
CODE	DESCRIPTION	METERS PER DRIVER
CODE RVA1524-PSU	VEGAS 15W, 24V, IP20 constant voltage driver, non-dimmable	METERS PER DRIVER
RVA1524-PSU	VEGAS 15W, 24V, IP20 constant voltage driver, non-dimmable	1m
RVA1524-PSU RVA3024-PSU	VEGAS 15W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 30W, 24V, IP20 constant voltage driver, non-dimmable	1m 2m – 3m
RVA1524-PSU RVA3024-PSU RVA6024-PSU	VEGAS 15W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 30W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 60W, 24V, IP20 constant voltage driver, non-dimmable	1m 2m – 3m 4m – 6m
RVA1524-PSU RVA3024-PSU RVA6024-PSU RVA10024-PSU	VEGAS 15W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 30W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 60W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 100W, 24V, IP20 constant voltage driver, non-dimmable	1m 2m - 3m 4m - 6m 7m - 10m

NON-DIMMABLE 12V, I	P67 FOR SINGLE COLOUR 4.8 W/M LED FLEXI-STRIP	
CODE	DESCRIPTION	METERS PER DRIVER
RVA6012IP67-PSU	VEGAS 60W, 12V, IP67 constant voltage driver, non-dimmable	1m – 12m
RVA10012IP67-PSU	VEGAS 100W, 12V, IP67 constant voltage driver, non-dimmable	13m – 20m
RVA20012IP67-PSU	VEGAS 200W, 12V, IP67 constant voltage driver, non-dimmable	21m – 41m
NON-DIMMABLE 24V, I	P67 FOR SINGLE COLOUR 9.6 W/M LED FLEXI-STRIP	
CODE	DESCRIPTION	METERS PER DRIVER
RVA6024IP67-PSU	VEGAS 60W, 24V, IP67 constant voltage driver, non-dimmable	1m – 6m
RVA10024IP67-PSU	VEGAS 100W, 24V, IP67 constant voltage driver, non-dimmable	7m – 10m
RVA20024IP67-PSU	VEGAS 200W, 24V, IP67 constant, voltage driver, non-dimmable	11m – 20m

Note: IP20 drivers can be used together with IP rated boxes if exposed to water.

Note: VEGAS dimmable drivers do not work with VEGAS CONNECT and PULSE CONNECT controllers

LED FLEXI-STRIP DRIVER COMPATIBILTY LIST

DRIVER COMPATIBILITY LIST DRIVER COMPATIBILITY LIST FOR RGB, RGBW LED FLEXI-STRIP

NON-DIMMABLE 12V	, IP20 FOR RGB 7.2W/M LED FLEXI-STRIP	
CODE	DESCRIPTION	METERS PER DRIVER
RVA1512-PSU	VEGAS 15W, 12V, IP20 constant voltage driver, non-dimmable	1m – 2m
RVA3012-PSU	VEGAS 30W, 12V, IP20 constant voltage driver, non-dimmable	3m – 4m
RVA6012-PSU	VEGAS 60W, 12V, IP20 constant voltage driver, non-dimmable	5m – 8m
RVA10012-PSU	VEGAS 100W, 12V, IP20 constant voltage driver, non-dimmable	9m – 13m
RVA18012-PSU	VEGAS 180W, 12V, IP20 constant voltage driver, non-dimmable	14m – 25m
NON-DIMMABLE 24V	, IP20 FOR RGB 14.4W/M LED FLEXI-STRIP	
	,	
CODE	DESCRIPTION	METERS PER DRIVER
CODE	DESCRIPTION	1m
CODE RVA1524-PSU	DESCRIPTION VEGAS 15W, 24V, IP20 constant voltage driver, non-dimmable	1m 2m
CODE RVA1524-PSU RVA3024-PSU	VEGAS 15W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 30W, 24V, IP20 constant voltage driver, non-dimmable	1m 2m 3m – 4m
CODE RVA1524-PSU RVA3024-PSU RVA6024-PSU	VEGAS 15W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 30W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 60W, 24V, IP20 constant voltage driver, non-dimmable	1m 2m 3m – 4m 5m – 6m
CODE RVA1524-PSU RVA3024-PSU RVA6024-PSU RVA10024-PSU	VEGAS 15W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 30W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 60W, 24V, IP20 constant voltage driver, non-dimmable VEGAS 100W, 24V, IP20 constant voltage driver, non-dimmable	1m

NON-DIMMBLE 12V, IF	67 FOR RGB 7.2W/M LED FLEXI-STRIP	
CODE	DESCRIPTION	METERS PER DRIVER
RVA6012IP67-PSU	VEGAS 60W, 12V, IP67 constant voltage driver, non-dimmable	1m – 8m
RVA10012IP67-PSU	VEGAS 100W, 12V, IP67 constant voltage driver, non-dimmable	9m – 13m
RVA20012IP67-PSU	VEGAS 200W, 12V, IP67 constant voltage driver, non-dimmable	14m – 26m
	_	
NON-DIMMABLE 24V,	IP67 FOR RGB 14.4W/M LED FLEXI-STRIP	
CODE	P67 FOR RGB 14.4W/M LED FLEXI-STRIP DESCRIPTION	METERS PER DRIVER
		METERS PER DRIVER 1m - 4m
CODE	DESCRIPTION	

NON-DIMMABLE 24V, IP20 FOR RGBW 12W/M LED FLEXI-STRIP		
CODE	DESCRIPTION	METERS PER DRIVER
RVA1524-PSU	VEGAS 15W, 24V, IP20 constant voltage driver, non-dimmable	1m
RVA3024-PSU	VEGAS 30W, 24V, IP20 constant voltage driver, non-dimmable	2m
RVA6024-PSU	VEGAS 60W, 24V, IP20 constant voltage driver, non-dimmable	3m – 5m
RVA10024-PSU	VEGAS 100W, 24V, IP20 constant voltage driver, non-dimmable	6m – 8m
RVA15024-PSU	VEGAS 150W, 24V, IP20 constant voltage driver, non-dimmable	9m – 12m
RVA25024-PSU	VEGAS 250W, 24V, IP20 constant voltage driver, non-dimmable	13m - 20m
RVA32024-PSU	VEGAS 320W, 24V, IP20 constant voltage driver, non-dimmable	21m – 26m
NON-DIMMABLE 24V, IP67 FOR RGBW 12W/M LED FLEXI-STRIP		
CODE	DESCRIPTION	METERS PER DRIVER
RVA6024IP67-PSU	VEGAS 60W, 24V, IP67 constant voltage driver, non-dimmable	1m – 5m
RVA10024IP67-PSU	VEGAS 100W, 24V, IP67 constant voltage driver, non-dimmable	6m – 8m
RVA20024IP67-PSU	VEGAS 200W, 24V, IP67 constant voltage driver, non-dimmable	7m – 16m

VEGAS LED CONTROLLERS



VEGAS CONTROLLER SINGLE COLOUR

- · Single colour dimming controller
- · C/w hand held remote
- Hand held remote can operate from a distance of 8m
- · Use with VEGAS LED drivers
- IP rated enclosure available (RVBIP2)
- · Working voltage: 12-24VDC
- Current: 6A x 3 channel
- · Connection mode: Common Anode
- · Only required for dimmable operations



VEGAS CONTROLLER RGB

- · Colour changing and dimming RGB controller
- · C/w hand held remote
- · Hand held remote can operate from a distance of 8m
- Use with VEGAS LED drivers
- IP rated enclosure available (RVBIP2)
- · Working voltage: 12-24VDC
- Current: 10A x 3 channel
- · Connection mode: Common Anode





VEGAS CONTROLLER RGBW

- · Colour changing and dimming RGBW controller
- · C/w hand held remote
- Hand held remote can operate from a distance of 8m
- · Use with VEGAS LED drivers
- IP rated enclosure available (RVBIP2)
- · Working voltage: 12-24V Current: 6A x 4 channel
- Connection mode: Common Anode

DIMENSIONS(mm)	Width	Length	Height
RVACCT1-CRTL	83	82	33
RVARGB-CRTL	83	82	33
RVARGRW-CRTI	92	91	24

	Single Colour	RGB	RGBW
	RVACCT1-CRTL	RVARGB-CRTL	RVARGBW-CRTL
Total Power (W):	432	432	288-576
Voltage:	12-24VDC	12-24VDC	12-24VDC
Weight (kg):	0.3	0.3	0.3





Note: Single Colour/RGB/RGBW controllers, remote controls and wall plates can be "paired" so they won't effect other systems in the same area

Note: VEGAS dimmable drivers do not work with VEGAS CONNECT and PULSE CONNECT controllers

VEGAS LED WALL PANEL CONTROLLERS





VEGAS WALL PANEL CONTROLLER, SINGLE COLOUR

- · Complete with wall mounted touch panel
- Max. distance between wall panel and controller of up to 20m
- Use with VEGAS range of drivers
- Current: 3 channels x 10A
- · Connection mode: common anode





VEGAS WALL PANEL CONTROLLER, RGB

- Complete with wall mounted touch panel
- Max. distance between wall panel and controller of up to 20m
- · Use with VEGAS range of drivers
- Current: 3 channels x 10A
- · Connection mode: common anode





VEGAS WALL PANEL CONTROLLER, RGB + WHITE

- · Complete with wall mounted touch panel
- Max. distance between wall panel and controller of up to 20m
- Use with VEGAS range of drivers
- Current: 4 channels x 8A
- · Connection mode: common anode

DIMENSIONS(mm)	Width	Length	Height
Single Colour Controller	70	91	24
Single Colour Wall Panel	86	86	34
RGB Controller	70	70	24
RGB Wall Panel	86	86	34
RGBW Controller	70	91	24
RGBW Wall Panel	86	86	34

	Single Colour RVACCT1-WP	RGB RVARGB-WP	RGBW RVARGBW-WP
	Controller	Controller	Controller
Total Power (W):	720	720	384-768
Total Voltage (V):	12-24VDC	12-24VDC	12-24VDC
Weight (kg):	0.34	0.34	0.34
	Wall Panel	Wall Panel	Wall Panel
Total Voltage (V):	110-240VDC	110-240VDC	110-240VDC
Weight (kg):	0.3	0.3	0.3







LED FLEXI-STRIP VEGAS LED AMPLIFIERS





- Signal amplifier for synchronous operation over long distance
- . Use with ROBUS VEGAS LED drivers
- Only required when single colour flex-strip is dimmed for systems over 10m
- IP rated enclosure available (RVBIP2)
- Working voltage: 12-24VDC
- Current: 6A x 2 channel
- · Connection mode: Common Anode

Single Colour	RVACCT1-AMP
Output Power (W):	144/288
Voltage:	12-24VDC
Weight (kg):	0.13









VEGAS AMPLIFIER - RGB & RGBW

- Signal amplifier for synchronous operation over long distance
- . Use with ROBUS VEGAS LED drivers
- · Required for lengths longer than 5m RGB
 - IP rated enclosure available (RVBIP2)
- · Working voltage: 12-24VDC
- Current: 6A x 2 Channel output power 216/432W
- · Connection mode: Common Anode

DCD	RVARGB-AMP
RGB	RVARGB-AMP
Total Power (W):	216/432
Voltage:	12-24VDC
Weight (kg):	0.1
RGBW	RVARGBW-AMP
Output Power (W):	768
Voltage:	12-24VDC
Weight (kg):	0.22







DIMENSIONS(mm)	Width	Length	Height
RVACCT1-AMP	73	80	34
RVARGB-AMP	73	80	34
RVARGBW-AMP	92	94	24

VEGAS LED FLEXI-STRIP WIFI CONTROLLERS





Single Colour

- · Single Colour dimming controller
- · Controlled by The Robus App via WiFi
- · Use with ROBUS VEGAS range of drivers
- IP rated enclosure available: RVBIP2
- Voltage: 12-24VDC
- Current: 10A x 1 Channel
- · Connection mode: common anode

	RVACCT1-WIFI
Total Power (W):	240
Width (mm):	45
Depth (mm):	23
Length (mm):	85
Weight (kg):	0.15

















- · Colour changing and dimming RGB controller
- · Controlled by ROBUS CONNECT App via WIFI
- · Use with ROBUS VEGAS range of drivers
- IP rated enclosure available: RVBIP2
- Voltage: 12-24VDC
- Current: 5A x 3 Channel Max: 10A
- · Connection mode: common anode

	RVARGB-WIFI
Total Power (W):	240
Width (mm):	45
Depth (mm):	23
Length (mm):	85
Weight (kg):	0.15













Tunable White

- · Colour changing and dimming CCT2 Tunable controller
- Controlled by ROBUS CONNECT App via WIFI
- Use with ROBUS VEGAS range of drivers
- IP rated enclosure available: RVBIP2
- Voltage: 12-24VDC
- Current: 5A x 2 Channel Max: 10A
- · Connection mode: common anode

	RVACCT2-WIFI
Total Power (W):	240
Width (mm):	45
Depth (mm):	23
Length (mm):	85
Weight (kg):	0.15

















RGBW

- · Colour changing and dimming RGBW controller
- Controlled by ROBUS CONNECT App via WIFI
- · Use with ROBUS VEGAS range of drivers
- IP rated enclosure available: RVBIP2
- Voltage: 12-24VDC
- Current: 5A x 4 Channel Max: 10A
- · Connection mode: common anode

	RVARGBW-WIF
Total Power (W):	240
Width (mm):	45
Depth (mm):	23
Length (mm):	85
Weight (kg):	0.15





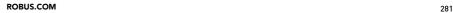












VEGAS LED ACCESSORIES



"L" connectors (pack of 3 pcs)

RVA48L-CONN	4.8W/m 12V Single Colour IP20
RVARGBL-CONN	7.2W/m 12V, 14.4W/m 24V RGB, IP20
RVARGBWL-CONN	12W/m 24V RGBW IP20





"T" connectors (pack of 3 pcs)

RVA48T-CONN	4.8W/m 12V Single Colour IP20	
RVARGBT-CONN	7.2W/m 12V, 14.4W/m 24V RGB IP20	
RVARGBWT-CONN	12W/m 24V RGBW IP20	





"X" connectors (pack of 3 pcs)

RVA48X-CONN	4.8W/m 12V Single Colour IP20
RVARGBX-CONN	7.2W/m 12V, 14.4W/m 24V RGB IP20
RVARGBWX-CONN	12W/m 24V RGBW IP20





VEGAS IP rated box, small

Small	RVBIP1
Large	RVBIP2
Weight (kg):	0.1





DIMENSIONS(mm)	Width	Length	Heigh
RVBIP1 (Small)	65	94	55
RVBIP2 (Large)	153	152	78

LED FLEXI-STRIP VEGAS LED CCT2 ACCESSORIES



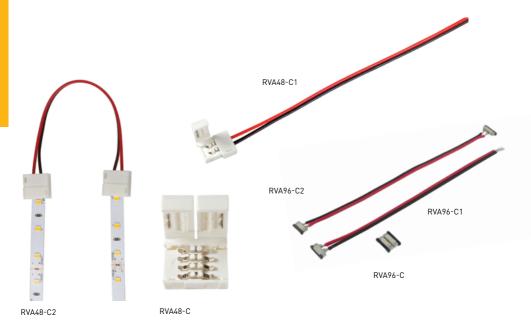
RVACCT2-C2



VEGAS LED FLEXI-STRIP CCT2 CLIP CONNECTORS

		Enforced Pack QTY
RVACCT2-C	VEGAS Easy Clip Connectors for CCT2 TUNABLE 12V/24V IP20/STRIP-TO-STRIP, without wires	111
RVACCT2-C1	VEGAS Easy Clip Connectors for CCT2 TUNABLE 12V/24V IP20/STRIP-TO-DRIVER, with 150mm	10
RVACCT2-C2	VEGAS Easy Clip Connectors for CCT2 TUNABLE 12V/24V IP20/STRIP-TO-STRIP, 150MM WIRE	111
RVA67CCT2-C	VEGAS Easy Clip Connector pack for 12V and 24V CCT2 TUNABLE IP67 LED STRIP / STRIP-T0-STRIP CONNECTOR without wires	
RVA67CCT2-C1	VEGAS Easy Clip Connector pack for 12V and 24V CCT2 TUNABLE IP67 LED STRIP / STRIP-TO-DRIVER CONNECTOR without wires	
RVA67CCT2-C2	VEGAS Easy Clip Connector pack for 12V and 24V CCT2 TUNABLE IP67 LED STRIP / STRIP-TO-STRIP CONNECTOR with 150mm	
RVA67RGBW-EC	VEGAS Easy Clip Connect Pack for 12V/24V CCT2 TUNABLE IP67 LED STRIP/ 5 End Caps and 10 Clips	111
RVA67-G	VEGAS GLUE for IP67 LED STRIP CONNECTORS	1
RVA67-H	VEGAS Heat Shrink for IP67 LED STRIP CONNECTORS	10

VEGAS LED IP20 & IP67 ACCESSORIES



VEGAS LED FLEXI-STRIP IP20 CLIP CONNECTORS

		Enforced Pack QTY
RVA48-C	VEGAS Easy Clip Connect for 4.8W/12V CCT1 IP20/STRIP-TO-STRIP, without wires	10
RVA48-C1	VEGAS Easy Clip Connect for 4.8W/12V CCT1 IP20/STRIP-TO-DRIVER, with 150mm	10
RVA48-C2	VEGAS Easy Clip Connect for 4.8W/12V CCT1 IP20/STRIP-T0-STRIP, with 150mm wire	10
RVA96-C	VEGAS EEasy Clip Connect for 9.6W/24V CCT1 IP20/STRIP-TO-STRIP, without wires	10
RVA96-C1	VEGAS Easy Clip Connect for 9.6W/24V CCT1 IP20/STRIP-TO-DRIVER, with 150mm	10
RVA96-C2	VEGAS Easy Clip Connect for 9.6W/24V CCT1 IP20/STRIP-T0-STRIP, with 150mm wire	10
RVARGB-C	VEGAS Easy Clip Connect for RGB 12V/24V IP20/STRIP-TO-STRIP, without wire	10
RVARGB-C1	VEGAS Easy Clip Connect for RGB 12V/24V IP20/STRIP-TO-DRIVER, with 150mm	10
RVARGB-C2	VEGAS Easy Clip Connect for RGB 12V/24V IP20/STRIP-TO-STRIP, with 150mm wire	10
RVARGBW-C	VEGAS Easy Clip Connect for RGBW 24V IP20/STRIP-TO-STRIP, without wires	10
RVARGBW-C1	VEGAS Easy Clip Connect for RGBW 24V IP20/STRIP-TO-DRIVER, with 150mm	10
RVARGBW-C2	VEGAS Easy Clip Connect for RGBW 24V IP20/STRIP-TO-STRIP, with 150mm wire	10

VEGAS LED IP20 & IP67 ACCESSORIES



VEGAS LED FLEXI-STRIP IP67 CLIP CONNECTORS

		Enforced Pack QTY
RVA67-EC	VEGAS Easy clip accessories for 12V/24V CCT1 IP67 LED STRIP / 5 End Caps 10 Clips	1
RVA67RGBW-EC	VEGAS Easy clip accessories for 24V RGB & RGBW IP67 LED STRIP / 5 End Caps 10 Clips	1
RVA67-G	VEGAS Glue for IP67 LED STRIP CONNECTORS	1
RVA67-H	VEGAS Heat Shrink for IP67 LED STRIP CONNECTORS	10
RVA67-C	VEGAS Easy clip connector pack for 12V/24V Single Colour IP67 LED STRIP STRIP-TO-STRIP CONNECTOR without wires	10
RVA67-C1	VEGAS Easy clip connector pack for 12V/24V Single Colour IP67 LED STRIP STRIP-TO-DRIVER CONNECTOR with 150mm	10
RVA67-C2	VEGAS Easy clip connector pack for 12V/24V Single Colour IP67 LED STRIP STRIP-TO-DRIVER CONNECTOR with 150mm	10
RVA67RGB-C	VEGAS Easy clip connector pack for 12V/24V RGB IP67 LED STRIP STRIP-T0-STRIP CONNECTOR, without wires	10
RVA67RGB-C1	VEGAS Easy clip connector pack for 12V/24V RGB IP67 LED STRIP STRIP-TO-DRIVER CONNECTOR with 150mm	10
RVA67RGB-C2	VEGAS Easy clip connector pack for 12V/24V RGB IP67 LED STRIP STRIP-TO-DRIVER CONNECTOR with 150mm	10
RVA67RGBW-C	VEGAS Easy clip connector pack for 24V RGBW IP67/STRIP-TO-STRIP, without wires	10
RVA67RGBW-C1	VEGAS Easy clip connector pack for 24V RGBW IP67/STRIP-TO-DRIVER, with 150mm	10
RVA67RGBW-C2	VEGAS Easy clip connector pack for 24V RGBW IP67/STRIP-TO-DRIVER, with 150mm	10

PULSE 12VDC LED FLEXI-STRIP









RGB - Infra Red Receiver

PULSE 12VDC 24W LED FLEXI-STRIP

- · Suitable for use in bars & clubs, restaurants, under counter displays, hotel/office receptions, showrooms, exhibition stands, step lighting, window dressing
- · 5m roll of flexi striplight
- . Strip can be cut every 3 LEDs
- Each kit c/w driver, flex & 3M double sided tape for easy installation
- · RGB kit with receiver and hand held remote controller

DIMENSIONS(mm)	Length	Depth
R5MSIK-WW	5,000	10
R5MSIK-CW	5,000	10
R5MSIK-RGB	5,000	10

	NA/ NA/L:	Cool White	RGB
	Warm White	Cool white	KGB
	R5MSIK-WW	R5MSIK-CW	R5MSIK-RGB
Total Power (W):	24	24	24
Total Light Output (lm):	1,250	1,500	N/A
Lifetime (hrs):	30,000	30,000	30,000
CCT (K):	3500	5000	N/A
CRI (Ra):	70	70	70
Power Factor (PF):	0.7	0.7	0.7
Weight (kg):	0.3	0.3	0.3

Note: It is not recommended to join PULSE flexi-strip. Off-cuts cannot be re-used as power supply units are not available separately. ROBUS VEGAS flexi-strip should be used if joining or



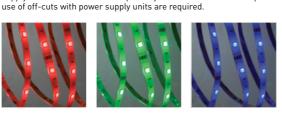












LED FLEXI-STRIP PULSE 12VDC LED PIR



PULSE 12VDC 72W LED PIR

•	Suitable for use with ROBUS PULSE LED strip light kits

• Operating voltage of 12-24VDC

Complete with mounting screws and 3M double sided adhesive

• Wide operating temperature range of -20°C to +40°C

DIMENSIONS (mm)	Width	Length	Depth
RPUPIR-01	50	50	26

	RPUPIR-01
Loading (W):	72
Time Settings:	10mins
Lux Settings:	15lx
Detection area:	100°
Motion Detection Range:	3m Diameter at 5m
Weight (kg):	0.1



EXTRUSIONS FOR VEGAS LED FLEXI-STRIP



EXTRUSION, surface mounted, low profile, 8mm

- · Surface mounted
- Low profile recessed extrusion with push on PC diffuser
- · Anodised aluminium
- Supplied in 2m lengths complete with end caps and mounting clips

		REXS	082-23
Box Qty:			1
Weight (kg):			0.29
DIMENSIONS (mm)	Width	Length	Height
REXS082-23	17.5	2000	8



EXTRUSION, recessed, 15mm

- Recessed extrusion with push on PC diffuser
- Anodised aluminium
- Supplied in 2m lengths complete with end caps

	REXR152-23
Box Qty:	1
Weight (kg):	0.52

DIMENSIONS(mm) Width Length Height
REXR152-23 25 2000 15



EXTRUSION, recessed / suspended, 52mm

- Recessed extrusion with push on PC diffuser
- Anodised aluminium
- Supplied in 2m lengths complete with end caps
- · C/w suspension kit

	REXR522-23
Box Qty:	1
Weight (kg):	1.32

DIMENSIONS(mm) Width Length Height
REXR152-23 35 2000 52



EXTRUSION. circular. 24mm

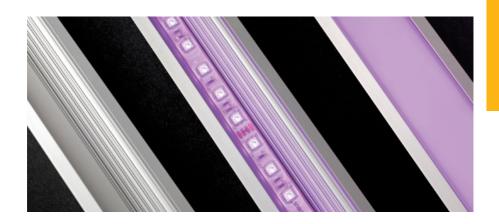
- Circular extrusion with push on PC diffuser. Suitable for suspension or surface mounting
- · Anodised aluminium
- Supplied in 2m lengths complete with end caps, suspension wires and mounting clips
- C/w suspension kit

•		REXC242-23
Box Qty:		1
Weight (kg):		0.38
DIMENCIONS()	Dr. I	100



LED FLEXI-STRIP

EXTRUSIONS FOR VEGAS LED FLEXI-STRIP



SURFACED MOUNTED & RECESSED WIDE BASE

- Low profile extrusion with push on PC diffuser
- · Anodised aluminium
- Supplied in 2m lengths complete with end caps
- Wide base to fit ROBUS VEGAS RGBW LED Flexi-strip

Surface Mounted	REXS122-23	
Box Qty:	1	
Weight (kg):	0.3	

DIMENSIONS(mm)	Width	Length	Height
REXS122-23	18	2000	12

ANGLED

Angled	REXA172-23
Box Qty:	1
Weight (kg):	0.96

DIMENSIONS(mm)	Width	Length	Height
REXA172-23	26	2000	12







Recessed	REXR122-23
Box Qty:	1
Weight (kg):	0.35

DIMENSIONS(mm)	Width	Length	Heigh
REXR122-23	18	2000	12

WALKOVER

Angled	REXSW071-23	
Box Qty:	1	
Weight (kg):	0.96	

DIMENSIONS(mm)	Width	Length	Height
REXSW071-23	18	1000	7





ACORN SINGLE CIRCUIT SPOTS & KITS	292
TRAM LED TRACK PROJECTOR	294
TROY LED TRACK PROJECTOR	296
TREK LED TRACK PROJECTOR	298
PETITE SINGLE CIRCUIT SPOTS & KITS	300
MAINS VOLTAGE TRACK	301
ACCESSORIES	302

ACORN SINGLE CIRCUIT SPOTS & KITS

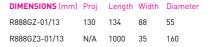


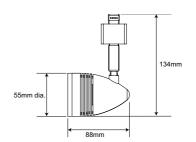
ACORN 50W TRACK SPOTLIGHT & ACORN TRACK KIT

- . Suitable for use with GU10 halogen and LED lamps
- Die cast aluminium housing
- Polycarbonate track adaptor
- 90° adjustable tilt and 350° rotation angle
- Wide ambient temperature range of -20°C to +40°C

R888GZ-01	R888GZ3-01
R888GZ-13	R888GZ3-13
50	N/A
GU10	GU10
0.3	1.6
1	1
	R888GZ-13 50 GU10









TRAM LED TRACK PROJECTOR





TRAM 25W & 35W LED TRACK SPOT, DIMMABLE, IP20, 4000K

- Suitable for use with ROBUS single circuit tracks
- Die cast aluminium and polycarbonate housing with polycarbonate reflector
- Wide operating ambient temperature range of -20°C to +40°C
- Adjustable rotation angle of 350° and tilt of 210°
- · Dimmable from Potentiometer on the side of the fitting
- Dimmable range of 10-100%

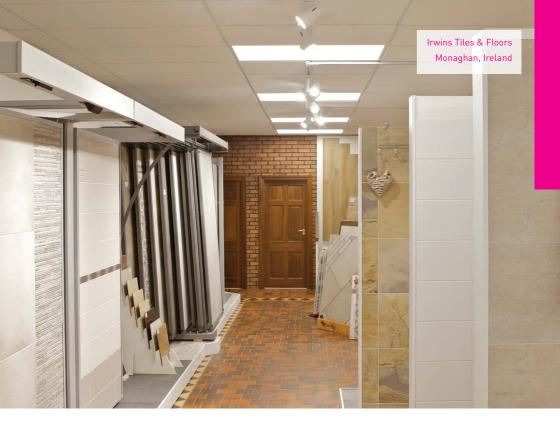
ACCESSORIES:

R1T-01/04	1M Track, 16A
R2T-01/04	2M Track, 16A
R3T-01/04	3M Track, 16A
RC-01/04	Track coupler
RL-01/04	Track L joiner
RT-01/04	Track T joiner
RLE-01/04	Track live end

DIMENSIONS (mm)	Length	Width	Height
RTM2540-01/04	146	90	186
RTM3540-01/04	161	105	190



RTM2540-01/04



	Neutral White	Neutral White	Warm White
White	RTM2540-01	RTM3540-01	RTM3530-01
Black	RTM2540-04	RTM3540-04	RTM3530-04
Comparable to:	35W metal halide	50W metal halide	50W metal halide
Total Power (W):	25	34.1	32.8
Total Light Output (lm):	2,240	3,060	2,820
Efficacy (lm / cctW):	90	90	86
Lifetime (hrs):	30,000	30,000	30,000
Beam Angle (deg):	38	38	38
Illuminance at 1m (lx):	4,930	7,580	7,080
CCT (K):	4000	4000	3000
CRI (Ra):	80	80	80
Power Factor (PF):	0.95	0.95	0.95
Weight (kg):	0.79	0.79	0.79
Box Qty:	1	1	1











SEAI Approved

TROY LED TRACK PROJECTOR



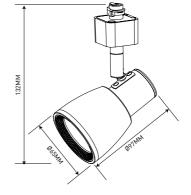


TROY 10W LED TRACK SPOT, IP20, 3000K & 4000K

- Suitable for use with ROBUS single circuit tracks
- Die cast aluminium housing with polycarbonate reflector
- Wide operating ambient temperature range of -20°C to +40°C
- · Adjustable rotation angle of 350° and tilt of 90°

	Warm White	Neutral White
White	RTY1030-01	RTY1040-01
Black	RTY1030-04	RTY1040-04
Comparable to:	20W metal halide	20W metal halide
Total Power (W):	9.7	9.4
Total Light Output (lm):	930	930
Efficacy (lm/cctW):	96	99
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	40	40
Lux at 1m (lux):	1,500	1,420
CCT (K):	3000	4000
CRI (Ra):	80	80
Power Factor (PF):	0.95	0.95
Horizontal rotation (Deg):	350	350
Vertical rotation (Deg):	90	90
Weight (kg):	0.27	0.27
Box Qty:	1	1

DIMENSIONS (mm)	Length	Width	Height
RTY1030-01/04	97	65	132
RTY1040-01/04	97	65	132

















TREK LED TRACK PROJECTOR





TREK 12W LED TRACK SPOT, IP20, 4000K

- Suitable for use with ROBUS single circuit tracks
- Die cast aluminium and polycarbonate housing with polycarbonate reflector
- · Wide operating ambient temperature range of -20°C to +40°C
- Adjustable rotation angle of 350° and tilt of 180°

White	RTK1240-01
Black	RTK1240-04
Comparable to:	25W metal halide
Total Power (W):	10.9
Total Light Output (lm):	1,150
Efficacy (lm / cctW):	106
Lifetime (hrs):	30,000
Beam Angle (deg):	38
Illuminance at 1m (lx):	2,630
CCT (K):	4000
CRI (Ra):	80
Power Factor (PF):	0.95
Weight (kg):	0.42
Box Qty:	1







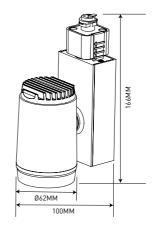






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TRACK PROJECTOR

PETITE SINGLE CIRCUIT SPOTS & KITS



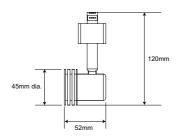
PETITE 50W TRACK SPOTLIGHT AND PETITE TRACK KIT

- Track kit comprises 1m track, live and dead ends and 3 x GU/GZ10 die-cast aluminium spotlights
- Suitable for use with GU10 halogen and LED lamps
- Die cast aluminium housing
- · Polycarbonate track adaptor
- 90° adjustable tilt and 350° rotation angle
- Wide ambient temperature range of -20°C to +40°C

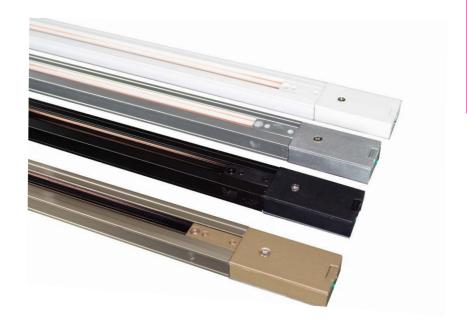
White	RS806GZ-01	RS806GZ3-01
Brushed Chrome	RS806GZ3-13	RS806GZ3-13
Total Power (W):	50	50
Cap Type:	GU10	GU10
Weight (kg):	0.43	1.73



DIMENSIONS (mm)	Diameter	Length	Width	Height
RS806GZ-01/13	45	120	52	18
RS806GZ3-01/13	N/A	1000	35	160



MAINS VOLTAGE TRACK



TRACK SINGLE CIRCUIT MAINS 16 AMP

- Polyester painted extruded aluminium alloy
- 16 Amp rated conductors for single phase operation (L, N, E)
- . C/w live and dead ends

	1M	2M	3M
White	R1T-01	R2T-01	R3T-01
Black	R1T-04	R2T-04	R3T-04
B Chrome	R1T-13		
S Silver	R1T-15	R2T-15	R3T-15

DIMENSIONS (mm)	Length	Width	Height
R1T-01/04/13/15	35	35	35
R2T-01/15	1000	2000	3000
R3T-01/15	18	18	18

ACCESSORIES



Adaptor

 Injection moulded plastic adaptor with accessible screw terminals for mating fittings to single circuit track

DIMENSIONS (mm)	Length	Width	Height
RTA-01 White	35	35	35
RTA-04 Black	35	35	35
RTA-15 S Silver	35	35	35



L joiner

- Injection moulded plastic power connection and blanking off piece for use with mains voltage track, single circuit
- · Accessible screw terminals

DIMENSIONS (mm)	Length	Width	Height
RL-01 White	108	108	18
RL-04 Black	35	35	35
RL-15 S Silver	35	35	35



T joiner

- Power connection constructed from injection moulded plastic
- · 20mm knock out at rear
- Accessible screw terminals

DIMENSIONS (mm)	Length	Width	Height
RT-01 White	178	108	18
RT-04 B Chrome	178	108	18
RT-15 S Silver	178	108	18



Live and dead ends

- Power connection constructed from injection moulded plastic
- Can only be attached from the right side
- 20mm knock out at rear
- · Accessible screw terminals

DIMENSIONS (mm)	Length	Width	Height
RLE-01 White	108	35	18
RLE-04 Black	108	35	18
RLE-13 B Chrome	108	35	18
RLE-15 S Silver	108	35	18



Straight Joiner

- In line connector for single circuit track
- 20mm knock out allows for wiring point into coupler
- · Accessible screw terminals

DIMENSIONS (mm)	Length	Width	Height
RC-01 White	178	35	18
RC-04 Black	178	35	18
RC-13 B Chrome	178	35	18
RC-15 S Silver	178	35	18



SPEAR CCT2 LED LINKABLE
STRIPLIGHT

COMMODORE LED CABINET DOWNLIGHT	306
ROYAL LED CABINET DOWNLIGHT	307
SPEAR CCT2 LED STRIPLIGHTS	308
SWORD HF STRIPLIGHTS	310
SPIRE HF STRIPLIGHTS	312

COMMODORE LED CABINET LIGHT





COMMODORE 2.5W LED MAINS VOLTAGE CABINET LIGHT

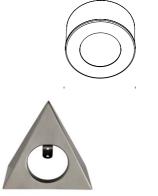
- Suitable for use in cabinet displays, under or on top of wall cabinets, kitchen kick boards, bedroom wardrobes, reception desk lighting, recessed in stair strings or risers
- No UV or infrared content, ensuring suitability for sensitive display items
- · Pressed stainless steel housing with polycarbonate diffuser
- Can be surface mounted or semi recessed
- · Mains voltage supply with integrated driver
- Complete with 1m supply cable

ACCESSORIES

RCDTS-13 Triangular Shell Accessory, Brushed Chrome

DIMENSIONS(mm)	Diameter	Cut-out	Depth
RCD2P530-01/13	71	55	32
RCD2P540-01/13	71	55	32

	Warm White	Neutral White
White	RCD2P530-01	RCD2P540-01
Brushed Chrome	RCD2P530-13	RCD2P540-13
Comparable to:	20W Halogen	20W Halogen
Total Power (W):	2.5	2.4
Total Light Output (lm):	190	210
Efficacy (lm/cctW):	83	88
Lifetime (hrs):	30,000	30,000
Beam Angle (deg):	110	110
CCT (K):	3000	4000
Power Factor (PF):	0.9	0.9
Box Qty:	1	1
Weight (kg):	0.17	0.17













RCDTS-13

ROYAL LED CABINET DOWNLIGHT

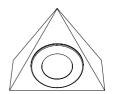


ROYAL 2.5W LED mains voltage cabinet light

- Suitable for use in cabinet displays, under or on top of wall cabinets, kitchen kick boards, bedroom wardrobes, reception desk lighting, recessed in stair strings or risers
- No UV or infrared content, ensuring suitability for sensitive display items
- · Pressed stainless steel housing with polycarbonate diffuser
- · Can be surface mounted or semi recessed
- · Mains voltage supply with integrated driver
- Complete with 1m supply cable

Warm White	Neutral White
RYA2P530-13	RYA2P540-13
20W Halogen	20W Halogen
2.5	2.4
190	210
83	88
30,000	30,000
110	110
3000	4000
>80	>80
0.9	0.9
1	1
0.19	0.19
	RYA2P530-13 20W Halogen 2.5 190 83 30,000 110 3000 >80 0.9

DIMENSIONS(mm)	Diameter	Width	Depth
RYA2P530-13	124	125	45
RYA2P540-13	124	125	45















SPEAR CCT2 LED STRIPLIGHTS



SPEAR CCT2 LED LINKABLE STRIPLIGHT

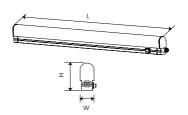
- Suitable for use in cabinet displays, kitchen wall units, workbench lighting, wardrobe lighting, under counter, bed headboard
- Complete kit includes: mounting brackets, 1.8m mains power cord and integrated male/female end butt connectors allowing fast and simple installation
- Link up to 15 fittings with linking cable accessory or by plugging fittings directly together
- Slim profile allowing the fittings to be easily be hidden behind pelmet or cornice so only the lighting effect is visible
- Combined 3000K/0FF/4000K selector switch on each fitting
- Wide operating ambient temperature range of -20°C to +40°C

ACCESSORIES

RLSTR250LEAD	Spear Link Lead 250mm
RSLTR500LEAD	Spear Link Lead 500mm
RSLTR1000LEAD	Spear Link Lead 1000mm



DIMENSIONS(mm)	Width	Length	Height
RLEDSTR3X-01	22	275	43
RLEDSTR4X-01	22	395	43
RLEDSTR8X-01	22	520	43
RLEDSTR10X-01	22	620	43
PLEDSTR1/Y-01	22	815	43





	RLEDSTR3X-01	RLEDSTR4X-01	RLEDSTR8X-01	RLEDSTR10X-01	RLEDSTR14X-01
Comparable to:	6W T4	8W T4	16W T4	20W T4	30W T4
Total Power (W):	3.3	4.3	6.7	9.4	13.5
Total Light Output (lm):	380/400	520/550	800/850	1090/1160	1570/1670
Efficacy (lm/cctW):	119/125	122/127	120/127	118/123	117/123
Lifetime (hrs):	30,000	30,000	30,000	30,000	30,000
Beam Angle (deg):	120	120	120	120	120
Illuminance at 1m (lux):	80/90	110/120	160/170	220/240	330/350
CCT (K):	3000/4000	3000/4000	3000/4000	3000/4000	3000/4000
CRI (Ra):	80	80	80	80	80
Impact Rating (IK):	08	08	08	08	08
Power Factor (PF):	0.55	0.55	0.55	0.6	0.6
Box Qty:	1	1	1	1	1
Weight (kg):	0.1	0.14	0.19	0.23	0.28



KITCHEN & FURNITURE SWORD HF STRIPLIGHTS



SWORD HF STRIPLIGHTS

SWORD T4 linkable striplight

- C/w 185cm power cord, 60cm linking cable, mounting clips, integral switch and warm white T4 tube
- Up to 6 fittings may be linked together in series, using linking cable supplied or by plugging fittings directly together
- Ultra slim design, extruded plastic body and triphosphor tubes
- · Flicker free instant start

DIMENSIONS(mm)	Width	Length	Depth
LSTR6W	18	275	36
LSTR8W	18	395	36
LSTR16W	18	520	36
LSTR20W	18	620	36
LSTR30W	18	815	36

	6W	W8	16W	20W	30W
	LSTR6W	LSTR8W	LSTR16W	LSTR20W	LSTR30W
Total Power (W):	6	8	16	20	30
IP:	20	20	20	20	20
Cap Type:	T4	T4	T4	T4	T4
Box Qty:	10	10	10	10	10
Weight (kg):	0.2	0.3	0.4	0.5	0.8



T4 LAMP

 Triphosphor tube provides higher luminous output than normal fluorescent tubes

 For overall lamp length add 17mm for pins

DIMENSIONS(mm)	Length
LFT46	205
LFT48	330
LFT416	440
LFT420	550
LFT430	750

Warm White 2700K	
Code	W
LFT46	6W
LFT48	8W
LFT416	16W
LFT420	20W
LFT430	30W

KITCHEN & FURNITURE SPIRE HF STRIPLIGHTS



SPIRE HF STRIPLIGHTS

SPIRE T5 linkable striplight

- C/w diffuser, power cord, butt connector, 60cm linking cord, integral switch & T5 tube
- Energy saving high frequency electronic control gear, with styrene diffuser
- Up to 6 fittings may be linked together in series, using linking cable supplied or by plugging fittings together using butt connector

DIMENSIONS(mm)	Width	Length	Depth
LT58W	22	345	42
LT513W	22	572	42
LT518W	22	640	42
LT524W	22	950	42

	8W	13W	18W	24W
	LT58W	LT513W	LT518W	LT524W
Total Power (W)	8	13	18	24
IP:	20	20	20	20
Cap Type:	T5	T5	T5	T5
Box Qty:	10	10	10	10
Weight (kg):	0.2	0.4	0.4	0.6



T5 LAMP

- Triphosphor tube provides higher luminous output than normal fluorescent tubes
- For overall lamp length add 13mm for pins

DIMENSIONS(mm)	Length
LFT58	286
LFT513	516
LFT518	585
LFT524	895

W W : 0700V	
Warm White 2700K	
Code	W
LFT58	8W
LFT513	13W
LFT518	18W
LFT524	24W



BATHROOM

GLOBE CEILING LIGHT	316
ROBIN SHOWER DOWNLIGHTS	318
STARLING SHOWER DOWNLIGHTS	319
DIVA LED OVER MIRROR LIGHT	320
DIVA LED DUAL VOLTAGE SHAVER LIGHT	321
ESTONE SHAVER LIGHT	322
CANON WALL LIGHTS	324
TOILET ALARM	325
HELM HAND DRYER	326

BATHROOM

GLOBE CEILING LIGHT



GLOBE CEILING LIGHT

- · Bakelite resin base
- · Pre-wired terminal block connection
- · Porcelain BC lamp holder
- Triple layer blow moulded opal glass globe
- 75mm flying lead
- Suitable for low energy lamps

	60W	100W
	R60SB	R100SB
Cap Type:	B22	B22
Weight (kg):	0.6	0.8
Box Qty:	Inner box (1)	Inner box (1)



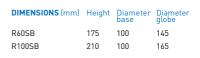


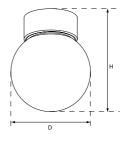














ROBIN SHOWER DOWNLIGHTS





ROBIN SHOWER LOW VOLTAGE 12V DOWNLIGHT & MAINS VOLTAGE GU10 DOWNLIGHT

- · Sealed to protect ceiling from moisture ingress
- · Recessed downlights with pressed steel body and die cast aluminium front bezel
- GZ10 lamp holder for 230/240V 50W halogen lamps

White	RS10165-01	RS10165GZ-01
Chrome	RS10165-03	RS10165GZ-03
Brushed Chrome	RS10165-13	RS10165GZ-13
Total Power (W):	50	50
Cap Type:	G5.3	GU10
Weight (kg):	0.27	0.27
Box Qty:	10	10





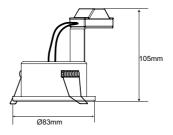












BATHROOM

STARLING SHOWER DOWNLIGHTS



STARLING 50W MAINS VOLTAGE STEEL FIRE RATED SHOWER DOWNLIGHT

- Recessed downlights with pressed steel body and die cast aluminium front bezel
- · Sealed to protect ceiling from moisture ingress
- GZ10 lamp holder for 230/240V 50W halogen lamps
- Fitting design and intumescent seals retain the integrity of 30, 60, 90 minute fire rated ceiling/floor constructions

White Chrome B Chrome	RSF20165-01 RSF20165-03 RSF20165-13
Total Power (W):	50
Cap Type:	GU10
Box Qty:	10
Weight (kg):	0.31





 DIMENSIONS (mm)
 Diameter Cut-out
 Depth

 RSF20165-01/03/13
 91
 76
 125



BATHROOM

DIVA LED OVER MIRROR LIGHT





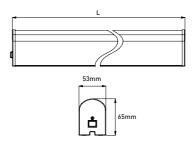
DIVA LED OVER MIRROR LIGHT

- LED replacement for >60W halogen mirror lights
- Extruded aluminium base, polycarbonate diffuser with ABS chrome-coated end caps
- . On/off switch included on end of the fitting
- Wide operating ambient temperature range of -20°C to +40°C

	RDA1530-03
Comparable to:	60W halogen
Total Power (W):	15.2
Total Light Output (lm):	1,190
Efficacy (lm/cctW):	78
Lifetime (hrs):	30,000
Beam Angle (deg):	130
Lux at 1m (lux):	350
CCT (K):	3000
CRI (Ra):	80
Power Factor (PF):	0.5
Weight (kg):	0.5
Box Qty:	1







DIVA LED DUAL VOLTAGE SHAVER LIGHT



DIVA 8W LED DUAL VOLTAGE SHAVERLIGHT

- · Polycarbonate housing and diffuser
- . C/w dual voltage 115V/240V shaver socket and on/off switch
- Wide operating ambient temperature range of -20°C to +40°C
- · Suitable for switching by external PIR, Microwave or Photocell
- · Available in white and chrome

White	RDA0830S-01
Chrome	RDA0830S-03
Comparable to:	60W Incandescent
Total Power (W):	9.6
Total Light Output (lm):	780
Efficacy (lm/cctW):	81
Lifetime (hrs):	30,000
Beam Angle (deg):	130
Lux at 1m (lux):	170
CCT (K):	3000
CRI (Ra):	>80
Power Factor (PF):	0.5
Weight (kg):	0.85
Box Qty:	1

DIMENSIONS (mm)	Length	Width	Depth
RDA0830S-01/03	492	59	66





BATHROOM

ESTONE SHAVER LIGHT



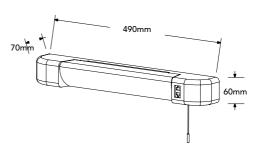
ESTONE 7W LED DUAL VOLTAGE SHAVER LIGHT

- LED replacement for 60W incandescent mirror lights
- · Polycarbonate housing and diffuser
- Dual voltage: 115V & 230V shaver socket
- Wide operating ambient temperature range of -20°C to +40°C $\,$
- Suitable for switching by external PIR, Microwave or Photocell

White	RSH7LED-01
Chrome	RSH7LED-03
Comparable to:	60W incandescent
Total Power (W):	7.1
Total Light Output (lm):	410
Efficacy (lm/cctW):	58
Lifetime (hrs):	30,000
Beam Angle (deg):	120
CCT (K):	4000
CRI (Ra):	87
Power Factor (PF):	0.6
Box Qty:	1
Weight (kg):	1.05

3 ^{YRS}	58 LmW	1	1	
OP 220 240 =	<u></u>	IP 20	PHOTO METRICS	L1

DIMENSIONS (mm)	Length	Height	Depth
RSH7LED-01	490	60	70





BATHROOM

CANON WALL LIGHTS



CANON G9 SINGLE/TWIN/SWAN NECK BATHROOM WALL LIGHT

- · Mains voltage
- C/w 1 or 2 x 25W Osram G9 lamps & pull cord
- · Sealed decorative frosted glass enclosed screw-on shades

	Single	Twin	Swan Neck	
	RG9125P-03	RG9225P-03	RG9225SP-03	
Total Power (W):	25	50	7.1	
Cap Type:	G9	G9	G9	
Box Qty:	1	1	1	
Weight (kg):	0.26	0.52	0.52	

Diameter	Width	Height	Proj
76	N/A	139	118
76	192	N/A	118
N/A	200	185	120
	76 76	76 N/A 76 192	76 192 N/A













BATHROOM

TOILET ALARM









- Contains: over-door light and sounder, one toilet reset switch, one main control module, ceiling pull unit with pull cord and disabled WC sticker
- Simply pull cord to activate sound alarm & over-door light outside room
- System can be extended with 2 additional pull cords or one additional pull cord and sounder
- Pull cord length 275cm
- Monitored 24hr backup battery ensures system works in the event of power failure
- Test facility of alarm sounders and lights provides safety for users
- · Parts also sold separately as accessories

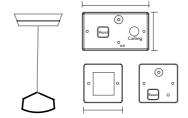
ACCESSORIES

RDPTA Indicator RDPTA Pull cord RDPTA Reset panel

DIMENSIONS (mm)	Length	Height	Depth
RSH7LED-01	490	60	70

RDPTA-01 Box Qty: 1





BATHROOM

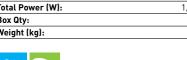
HELM HAND DRYER



HELM HIGH SPEED HAND DRYER

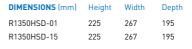
- Warm air
- Up to 50% energy consumption compared to other dryers of similar performance
- · High speed, high efficiency
- · Streamlined air duct and nozzle design combine to produce a concentrated stream of high speed air to dry hands in under 10
- · PIR activated. Starts immediately when hands are placed within 15cm of the drying nozzle and stops
 - 1 second after hands are removed ensuring energy is not wasted
- · Aluminium main body
- Noise level = 84dB

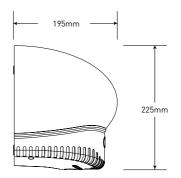
White	R1350HSD-01
Satin Silver	R1350HSD-15
Total Power (W):	1,350
Box Qty:	1
Weight (kg):	3.8













UNIVERSAL BULKHEAD	330
EBLANA BULKHEAD	332
EXIT BOX	334
REX EXIT BOX	335
DYNAMO LED	336
DESMOND LED	337
BLADE LED	338
SWISS EXIT BLADE	339
FINCH LED TWINSPOT	340
EMERGENCY PACK	341

EMERGENCY BULKHEADS





UNIVERSAL LED, SELF-TEST, MAINTAINED

- · ROBUS UNIVERSAL LED, self-test, maintained
- · LED replacement for T5 emergency bulkheads
- · No UV or IR content
- · Surface or semi-recessed mounted
- · Fully polycarbonate housing
- Automatic self-test function: once a week test lasts 15mins. Twice a year – test lasts 3 hours
- Complete with 4 piece legend set
- Large 4 terminal connector block
- Complete with NiCad battery providing excess of 3 hour emergency discharge duration
- Green, amber and red LED's indicating battery, LED output, charge and test status of the unit
- · Emergency spacing details in back section of catalogue

ACCESSORIES

R8MULK-15 UNIVERSAL EMERGENCY dropped legend

	R8MUSTLED-01
Total Power (W):	4.4
Total Light Output (lm):	190 standard
	100 emergency
Lux at 1m (lux):	100/50 emergency
CCT (K):	4000
Power Factor (PF):	>0.5
Cap Type:	LED
Weight (kg):	1.0
Box Qty:	1



DIMENSIONS (mm) Length Width Cut-out Depth

R8MUSTLED-01 350 175 290x140 80 R8MULK-15 350 N/A N/A 230





EBLANA EMERGENCY LED BULKHEAD



EBLANA EMERGENCY LED BULKHEAD, MAINTAINED

- LED replacement for T5 emergency bulkheads
- Fully polycarbonate construction
- · Hinged gear tray allowing for ease of wiring and installation
- R8MLEDTS-01 complete with test switch on the side of the fitting
- Only 3W in maintained mode
- · No UV or IR content
- · 3 hour emergency operation
- Double sided exit accessory available allowing removal of existing diffuser and conversion to double sided exit (R8MLEDDE)
- Emergency spacing details for R8MLED in back section of catalogue

ACCESSORIES POMI EDDE

R8MLEDDE	BULKHEAD accessory for R8MLED
RBULKLEG	BULKHEAD legend kit
R8MLEDRSB-01	Recessed box for R8MLED
R8MLEDDEXLR	Left/right running man legend stickers for R8MLEDDE
R8MLEDDEXU	2 Up Arrow Legend Set With Running for R8MLEDDE



1		R8MLEDRSB-01

352

352

350

265

161

352

DIMENSIONS (mm) Length

R8MLED-01

R8MLEDDE

RBULKLEG

R8MLEDTS-01

R8MLEDRSB-01

R8MLEDLST-01

recessed box

Width

110

110

200

219

391

110

Depth

67

67

185

N/A

35

67

T+353 1 709 9000 F+353 1 709 9060

EBLANA EMERGENCY LED BULKHEAD



	Standard	Test Switch	Self Test
	R8MLED-01	R8MLEDTS-01	R8MLEDLST-01
Total Power (W):	3.7	3.7	3.5
Total Light Output (lm):	140 standard	140 standard	150 standard
	120 emergency	120 emergency	100 emergency
Lux at 1m (lux):	45 standard	45 standard	45 standard
	40 emergency	40 emergency	40 emergency
CCT (K):	6500	6500	6500
CRI (Ra):	80	>65	80
Power Factor (PF):	0.55	0.55	0.5
Impacting Rating (IK):	07	07	08
Weight (kg):	0.57	0.57	0.57
Box Qty:	1	1	1



EMERGENCY **EXIT BOX**



EXIT BOX 3W LED MAINTAINED

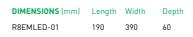
- LED replacement for T5 emergency exit signs
- · Pressed steel housing with polycarbonate diffuser
- C/w running man with arrow facing up or Down legend
- · Max viewing distance of 30m
- Left, right and up running man legend panels available (RCXR3, RCXL3 and RCXU2) also down legend as an accessory
- · No UV or IR content
- 3 hour emergency operation
- · Only 3W in maintained mode
- · Can be wired as maintained and non-maintained fitting

ACCESSORIES

RCXR3	Spare running man legend - right
RCXL3	Spare running man legend - Left
RCXU2	Spare running man legend - Up
RCXD2	Spare running man legend - Down

White	R8EMLED-0	
Down arrow legend	R8EMLEDD-01	
Total Power (W):	3.7	
Total Light Output (lm):	40	
Weight (kg):	1.4	
Box Qty:	1	







REX EXIT BOX





REX 3.5W MAINTAINED SLIM EXIT BOX

- Slim LED Exit box 29mm deep
- 2 sets of LEDs arrays: exit and critical area illumination
- Provided with a switched live terminal for maintained or non maintained operation
- Loop-in/loop-out push in terminals
- · Key hole fixing positions for quick installation
- Warranty of 5 years for the fitting, 2 years for the standard battery and 3 years for Self test battery
- Self Test version using LiFePO₄ battery

	Standard	Self test
	REX4P0-01	REX4P0LST-01
Comparable to:	8W T8	8W T8
Total Power (W):	3.6	3.1
Total Light Output (lm):	25/40 emergency	35/70 emergency
Lifetime (hrs):	30,000	50,000
Beam Angle (deg):	100/200	100/200
Lux at 1m (lux):	8/15 emergency	8/16 emergency
CCT (K):	6500	6500
CRI (Ra):	80	80
Power Factor (PF):	0.5	0.5
Impacting Rating (IK):	08	08
Weight (kg):	0.83	0.89
Box Qty:	1	1

DIMENSIONS (mm)	Length	Height	Depth
REX4P0-01	395	199	29
REX4P0LST-01	395	199	29













EMERGENCY DYNAMO LED

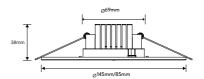


DYNAMO 2W LED NON-MAINTAINED EMERGENCY DOWNLIGHT, RECESSED

- · Complies with AS 2293 D40 classification
- · The fitting is pre-wired with plugtop
- A surface box accessory is available which means the fitting can be mounted where there is a concrete slab or solid ceiling
- A slim bezel provides a neat flush to the ceiling, attractive aesthetic
- Non-maintained emergency lighting is design to turn on in the event of a power failure. It is linked into the building's lighting circuitry and reacts to a power failure

Daylight White	R2WLEDNME-01
Total Power (W):	1.6
Total Light Output (lm):	200
Lifetime (hrs):	30,000
Beam Angle (deg):	150
Lux at 1m (lux):	55
CCT (K):	6500
CRI (Ra):	75
Weight (kg):	0.71
Box Qty:	1







EMERGENCY **DESMOND LED**



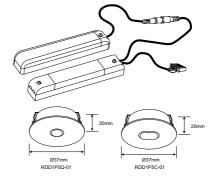
DESMOND 1.5W LED NON-MAINTAINED 37MM EMERGENCY DOWNLIGHT

- Energy efficient recessed LED emergency downlight with NiCad battery
- Complete kit prewired with plug & play connectors comprising LED downlight, control gear and battery pack
- · Provides 3 hour emergency discharge duration
- · Green colour LED Indicator included
- 4 year warranty on fitting & 2 years on battery

	Corridor	Open Area
	RDD1P5C-01	RDD1P5Q-01
Total Power (W):	1.5	1.5
Emergency Mode Light Output (lm):	180	160
Rated Life (hrs):	30,000	30,000
Emergency Mode Illuminance at 1m (lx):	35	50
Beam Angle (deg):	160x50	1100
CCT (K):	4000	4000
CRI (Ra):	70	70
Power Factor (PF):	0.5	0.5
Box Qty:	1	1
Weight (kg):	0.3	0.3



DIMENSIONS (mm)	Diameter	Height	Length	Cut-out	Pro
RDD1P5C-01	37	20	185	32	5
RDD1P5Q-01	37	20	185	32	5



BLADE LED

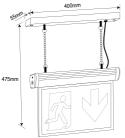


BLADE 4W LED EXIT LIGHT

- Maintained
- Exit sign illuminated by 11 LEDs
- NiCad battery providing 3 hour emergency discharge duration
- Max viewing distance of 48m
- · Surface mounted
- Complete with 6 legends set

Satin Silver	RBL4P0E-15
Total Power (W):	4
Power Factor (PF):	0.9
Rated Life (hrs):	50,000
CCT:	6,000
Weight (kg):	1.2
Box Qty:	1

3 ^{YR}	5		
OP 220 240	丰	IP 20	PHOTO METRICS



DIMENSIONS (mm)	Height	Width	Depth
RBL4P0E-15	475	400	55



SWISS EXIT BLADE



SWISS 1.5W MAINTAINED EMERGENCY EXIT BLADE LIGHT

- Strong polycarbonate construction so will not easily get damaged
- · Provides bright light output in emergency mode, long LED life and low power consumption
- · Provides total light colour contrast to the darkness of power failure or smoke filled area so exit direction is more easily seen
- LiFePO4 (Lithium Ferro Phosphate) battery technology provides fast charge, a high number of charge/discharge cycles and a 3 hour emergency light output
- · Manual test switch
- · Variation of mounting options to suit requirements
- · 4-year warranty for the fitting and 2-year for the battery

ACCESSORIES

RSSRSB	Recessed Mount accessory
RSSD	LEGEND accessory DOWN arrow
RSSLR	LEGEND accessory LEFT/ RIGHT arrow

Up arrow	RSS1P5-01
Down arrow	RSS1P5D-01
Total Power (W):	1.4
Total Light Output (lm):	6
Emergency Mode Light Output (lm):	6
Maximum viewing distance (m):	26
Rated Life (hrs):	30,000
Illuminance at 1m (lux):	2
Emergency Mode illuminance at 1m (lx):	2
Beam Angle (deg):	310
CCT (K):	6,500
CRI (Ra):	80
Power Factor (PF):	0.5
Legend dimensions (mm):	267x130
Box Qty:	1
Weight (kg):	0.27















Perpendicular Mounted

FINCH LED TWINSPOT

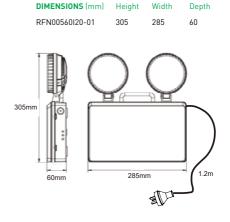


FINCH 5W LED TWINSPOT

- LED replacement for 2x20W halogen twin spots
- Fully polycarbonate IP20 housing
- · 20mm conduit entries in side and back key hole mounting slots
- 3 hour emergency operation
- · Non-maintained
- C/w LED status indicators

White	RFN00560120-01
Total Power (W):	4.2
Total Light Output (lm):	440
Lifetime (hrs):	30,000
Beam Angle (deg):	60
Lux at 1m (lux):	90
CCT (K):	6000
CRI (Ra):	70
Power Factor (PF):	0.9
Weight (kg):	1.13
Box Qty:	1





EMERGENCY PACK





3 HOUR EMERGENCY PACK, with Swift Connector for use with Panels & Downlights

- Plug and play when used with fittings that come with swift connector
- · Low power consumption
- Using high quality LiFePO₄ battery
- Providing 3 hour emergency discharge duration
- · Emergency light output dependant on fitting it is installed in
- Wide operating temperature range of 0°C to +40°C

	R3EMPK4-PSU
Total Power (W):	3.5
IP:	20
Power Factor (PF):	0.5
Box Qty:	1/20
Battery Voltage:	6.5
Battery Capacity:	33.0
Weight (kg):	0.5
Charging Time (hrs):	24
Discharge Time (hrs):	3

DIMENSIONS(mm)	Width	Length	Height
R3EMPK4-PSU	60	230	37





LAMPS

DIAMOND LED	344
DELPHI LED	346

LAMPS

DIAMOND LED LAMPS

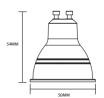




The ROBUS DIAMOND range of LED lamps utilises SMD technology. SMD's (Surface Mounted Devices) are a recent generation of LED lighting and are largely responsible for the adoption of LED as a viable alternative to many traditional light sources.

- Suitable for use in shop displays, retail showrooms, hotel function rooms & receptions, bars & restaurants, dining room, kitchen, bedrooms in the home
- · Suitable for use in fire rated downlights
- · 38° beam angle
- . No UV or infra-red content
- Die cast aluminium, plastic coated housing and polycarbonate lens
- GU10 cap type
- High quality, high brightness SMD LEDs providing high efficacy of 73-87lm/W
- Wide operating ambient temperature range of -10°C to +30°C
- 5W LED version is dimmable with selected leading and trailing edge dimmers
- Dimmer compatibility list available on website

DIMENSIONS(mm)	Diameter	Heigh
RDM4P530	50	54
RDM4P540	50	54
RDM5P030DU	50	54
RDM5P040DU	50	54



LAMPS

DIAMOND LED LAMPS

DIAMOND 4.5W non-dimmable

	RDM4P530	RDM4P540
Comparable to (halogen):	50W	50W
Total Power (W):	4.8	4.5
Total Light Output (lm):	350	370
Efficacy (lm/cctW):	73	82
Lifetime (hrs):	30,000	30,000
Lux at 1m (lux):	600	650
Beam Angle (deg):	38	38
CCT (K):	3000	4000
CRI:	80	80
IP:	20	20
Power Factor (PF):	0.5	0.5
Box Qty:	1	1
Weight (kg):	0.05	0.05



DIAMOND 5W dimmable

	RDM5P030DU	RDM5P040DU
Comparable to (halogen):	50W	50W
Total Power (W):	5.3	5.3
Total Light Output (lm):	420	460
Efficacy (lm/cctW):	79	87
Lifetime (hrs):	30,000	30,000
Lux at 1m (lux):	675	700
Beam Angle (deg):	38	38
CCT (K):	3000	4000
CRI:	80	80
IP:	20	20
Power Factor (PF):	0.5	0.5
Box Qty:	1	1
Weight (kg):	0.05	0.05



DELPHI LED LAMPS







DELPHI IP20 GU10 LED LAMPS

- · Suitable for all the rooms in the home, shop windows display, hotel function rooms, commercial office buildings, track fittings and retail showrooms
- . The range consists of 2,700K, 3,000K and 4,000K CCT which provides alternative colour temperatures applicable to the use of
- · The polycarbonate LEDChroic lens and diffuser provides a twinkling aesthetic and beam angle of 35 deg
- Uses solid state technology without a sealed glass bulb containing an inert gas, filaments or electrodes
- Low power consumption with high lumen output provides long LED life and additional energy savings

DIMENSIONS(mm)	Diameter	Depth
RDH4P530	50	53.5
RDH4P540	50	53.5
RDH5P027DU	50	53.5
RDH5P030DU	50	53.5
RDH5P040DU	50	53.5



	Non-Dimmable	Non-Dimmable	Dimmable	Dimmable	Dimmable
	RDH4P530	RDH4P540	RDH5P027DU	RDH5P030DU	RDH5P040DU
Comparable to:	50W Halogen	50W Halogen	50W Halogen	50W Halogen	50W Halogen
Total Power (W):	4.2	4.3	4.9	4.9	4.9
Total Light Output (lm):	420	450	460	450	470
Efficacy (lm/cctW):	102	105	94	92	96
Lifetime (hrs):	25,000	25,000	25,000	25,000	25,000
Beam Angle (deg):	35	35	35	35	35
Lux at 1m (lux):	640	710	700	710	740
CCT (K):	3000	4000	2700	3000	4000
CRI (Ra):	80	80	80	80	80
Power Factor (PF):	0.5	0.5	0.9	0.9	0.9
Weight (kg):	0.03	0.03	0.04	0.04	0.04
Box Qty:	1	1	1	1	1





















LIGHTING CONTROLS

INTERNAL PIRS	356
EXTERNAL PIRS	358
RADAR MICROWAVE SENSOR	360
MICROWAVE DAYLIGHT HARVEST SENSOR	362
LED GRID DIMMER	364
LED DIMMER	365
ELECTRONIC TRANSFORMERS	366
SWIFT CONNECTOR	367
DIMMER SWITCHES	368

LIGHTING CONTOLS

INTERNAL PIRS





PROTON 360° PIR WITH EASY ACCESS CONTROLS

- Passive infra red ensures light is switched on when sensor detects movement of heat, switched off when area is vacated.
- Manual over ride with automatic reset after 8 hours
- Large terminals accept 2 x 1.5mm² conductors in each terminal.
 Facility for loop in loop out
- 3 wire multiple sensors can be wired in parallel
- · Easy access to adjust time and lux controls once PIR installed
- High load contact rating, allows numerous fittings to be switched
- Complies with requirements of the Energy Technology Criteria List.

Detection Area:	360°
Motion Detection Range:	6m diameter at 2.8M
Loading:	Max 400W fluorescent Max 400W LED
	Max 800W incandescent
Time Settings:	10 seconds to 15 minutes adjustable
Lux Settings:	3-2000lx
Weight (kg):	0.11
Box Qty:	1

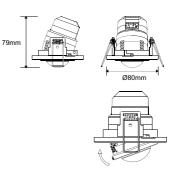






RPR360PIRR-01

DIMENSIONS (mm)DiameterDepthCut-outRPR360PIRR-01807866



LIGHTING CONTROLS

INTERNAL PIRS





Proton 360° with shield accessory

PROTON 360° PIR WITH FLUSH FRONT

- Passive infra red ensures light is switched on when sensor detects movement of heat, switched off when area is vacated. Minimises false / unwanted triggering
- · Manual over ride with automatic reset after 8 hours
- Large terminals accept 2 x $1.5 mm^2$ conductors in each terminal. Facility for loop in loop out
- 3 wire multiple sensors can be wired in parallel
- Unobtrusive flush face design
- · High load contact rating, allows numerous fittings to be switched
- Complete with accessory shield to narrow beam angle

	RPR360PIRF-01
Detection Area:	360°
Motion Detection Range:	5m diameter at 2.8M
Loading:	Max 300W fluorescent
	Max 300W LED
	Max 1,200W incandescent
Time Settings:	10 seconds to 15 minutes adjustable
Lux Settings:	3-2000lx
Weight (kg):	0.1
Box Qty:	1











LIGHTING CONTOLS

INTERNAL PIRS



UNIVERSAL 360° PIR PRESENCE DETECTOR

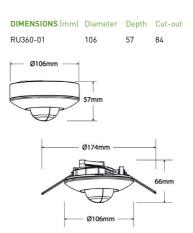
- Plug in terminal block and sensor module
- Large terminals accept 2 x 1.5mm² conductors in each terminal; facility to loop in/loop out to parallel sensors or multiple fittings
- Passive infra-red; ensures light is switched on when sensor detects movement of heat, therefore lighting is switched off when the area is vacated and minimize false/unwanted triggering
- Adjustable passive photocell; inhibits switching where natural light is sufficient
- · High load contact rating; allows numerous fittings to be switched
- 3 wire- multiple sensors can be wired in parallel

Surface /Recessed	RU360-01
Detection Area:	360°
Motion Detection Range:	10m diameter at 2.8m
Occupancy Detection Range:	6m diameter at 2.8m
Loading:	Max 600W fluorescent Max 300W LED
	Max 2,000W incandescent
Time Settings:	10 sec to 40 minutes adjustable
Lux Settings:	10-2000lx
Impacting Rating (IK):	10
Weight (kg):	0.24
Box Qty:	1









LIGHTING CONTROLS

INTERNAL PIRS



PROTON MOTION DETECTOR 360°, RECESSED

- Clear terminal cover, integral clamp and large mains terminals for 2 x 1.5mm² conductors
- Terminations are safe and visible and enables loop-in/loop-out for supply to other sensors
- Passive infra-red; ensures light is switched on when sensor detects movement of heat, therefore lighting is switched off when the area is vacated and minimize false/unwanted triggering
- · 3 wire multiple sensors can be wired in parallel
- · No minimum load requirements
- Adjustable passive photocell; inhibits switching where natural light is sufficient

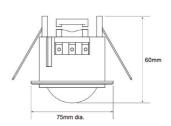
	RR360-01
Detection Area:	360°
Motion Detection Range:	9m diameter at 2.8m
Loading:	Max 600W fluorescent
	Max 300W LED
	Max 2,000W incandescent
Time Settings:	5 Seconds to 15 minutes adjustable
Lux Settings:	2-2000lx
Impacting Rating (IK):	10
Weight (kg):	0.11
Box Qtv:	1



ECA Eligible



DIMENSIONS (mm)	Diameter	Depth	Cut-out
RR360-01	75	60	62



LIGHTING CONTOLS

INTERNAL PIRS



PROTON MOTION DETECTOR 360°, SURFACE

- Rear and side entry knockouts, integral cable clamp
- Large terminals accept 2 x 1.5mm² conductors in each terminal; facility to loop in/loop out to parallel sensors or multiple fittings
- Adjustable passive photocell; inhibits switching where natural light is sufficient
- Passive infra-red; ensures light is switched on when sensor detects movement of heat, therefore lighting is switched off when the area is vacated and minimize false/unwanted triggering
- High load contact rating; allows numerous fittings to be switched
- 3 wire- multiple sensors can be wired in parallel
- · No minimum load requirements

White	R360N-01
Detection Area:	360°
Motion Detection Range:	9m diameter at 2.8m
Loading:	Max 300W fluorescent
	Max 150W LED
	Max 1,000W incandescent
Time Settings:	5 sec to 15 minutes adjustable
Lux Settings:	2-2000lx
Impacting Rating (IK):	10
Weight (kg):	0.24
Box Qty:	1







DIMENSIONS (mm) R360N-01	Length 110	Depth 45
Ø110mm		40mm

LIGHTING CONTROLS

EXTERNAL PIRS





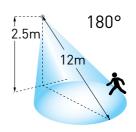
PROTON MOTION DETECTOR 180°

- Weatherproof housing
- Injection moulded ABS body providing high impact resistance
- · Manual override facility with automatic reset after 8hrs
- High load contact rating allows numerous fittings to be switched
- Suitable for loop-in/loop-out to parallel sensor or multiple fittings
- No minimum load requirements
- 3 wire- multiple sensors can be wired in parallel

140 :	D400 04
White	R180-01
Black	R180-04
Detection Area:	180°
Motion Detection Range:	12m diameter at 2.5m
Loading:	Max 300W fluorescent
	Max 150W LED
	Max 1,000W incandescent
Time Settings:	10 sec to 10 minutes adjustable
Lux Settings:	2-2000lx
Weight (kg):	0.36
Box Qty:	1



DIMENSIONS (mm)	Width	Depth	Height
R180-01	75	130	85
R180-04	75	130	85



LIGHTING CONTOLS

EXTERNAL PIRS





PROTON MULTI-DIRECTIONAL 180° PIR, IP65

- . Manual over ride with automatic reset after 8 hours
- Passive infra red ensures light is switched on when sensor detects movement of heat, switched off when area is vacated. Minimises false / unwanted triggering
- Large terminals accept 2 x 1.5mm2 conductors in each terminal.
 Facility for loop in loop out
- 3 wire multiple sensors can be wired in parallel
- · High load contact rating, allows numerous fittings to be switched
- · No minimum load requirements
- · Complete with accessory shield to reduce detection angle

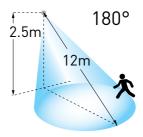
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RPRBRK-01	Corner mount accessory, white
RPRBRK-04	Corner mount accessory, black

White	RPR180PIR-01
Black	RPR180PIR-04
Detection Area:	180°
Motion Detection Range:	12m diameter at 2.5m
Loading:	Max 300W fluorescent
	Max 300W LED
	Max 1,200W incandescent
Time Settings:	10 sec to 15 minutes adjustable
Lux Settings:	3-2000lx
Weight (kg):	0.16







Box Qty:



LIGHTING CONTOLS

EXTERNAL PIRS



PROTON 180° PIR, IP44, WALL MOUNTED

- . Manual over ride with automatic reset after 8 hours
- Passive infra red ensures light is switched on when sensor detects movement of heat, switched off when area is vacated. Minimises false / unwanted triggering
- Large terminals accept 2 x 1.5mm2 conductors in each terminal. Facility for loop in loop out
- · Earth terminal included
- 3 wire multiple sensors can be wired in parallel
- · High load contact rating, allows numerous fittings to be switched
- No minimum load requirements

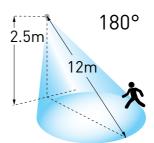
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RPBRKW-01 Corner mount accessory, white

	RPR180PIRW-01
Detection Area:	180°
Motion Detection Range:	12m diameter at 2.5m
Loading:	Max 300W fluorescent
	Max 300W LED
	Max 1,200W incandescent
Time Settings:	10 sec to 15 minutes adjustable
Lux Settings:	3-2000lx
Weight (kg):	0.13
Box Qty:	1









RADAR MICROWAVE SENSOR



RADAR 360° MW SENSOR, WITH 3 STEP DIMMING, IP65, WHITE

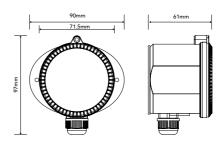
- Can be used on high ceilings, with a maximum mounting height of 15m. Suitable for use in warehouses, indoor and outdoor applications
- Weatherproof IP65 polycarbonate housing with nickel plated stainless steel mount
- · Surface mounted
- Power consumption of <0.7W
- Wide operating ambient temperature range of -20°C to +40°C

This sensor's primary function is to save energy when the detection area is not occupied. It requires the fitting to have a 1-10VDC dimmable driver and can control up to 800W of LED load. Parameters are selected via dip-switches on the sensor.

These sensors provide a 3-step control function where:

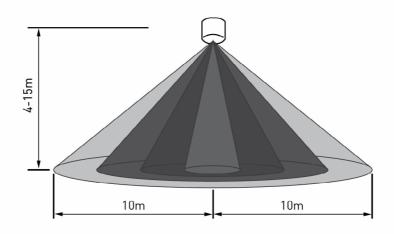
- Detection triggers light output to 100% (May be inhibited by lux setting)
- II. After time-out it reduces light output to a selectable standby level for a standby time (this may be indefinite) before:
- III. Turning the output to the driver off

DIMENSIONS (mm) Length Width Depth
RRD360MW-01 97 90 61



RADAR MICROWAVE SENSOR

Detection Zone



	RRD360MW-01
Detection Area:	360°
Min/Max mounting height (m):	Max 15m
Detection zone diameter at Min/Max mounting height (m):	Max 10m
Detection Angle (deg):	360
Sensitivity (%):	50/100
Loading:	Max 800W fluorescent Max 800W LFD
	Max 1,200W incandescent
Hold Times:	5s/30s/90s/3min/5min/10min/20min/30min
Lux Switching Levels (lx):	2/10/50/Full Daylight
Default Standby Level Before Off (%):	10/20/30/50
Standby Times Before Off (min):	0s/10s/60s/5min/10min/30min/60min/∞
Impact Rating (IK):	10
Weight (kg):	0.31
Box Qty:	1



MICROWAVE DAYLIGHT HARVEST SENSOR



MICROWAVE DAYLIGHT HARVEST SENSOR, 1-10V DIMMING, IP65, SURFACE MOUNT

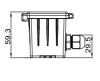
- · Suitable for indoor and outdoor applications
- Weatherproof IP65 housing
- · Surface mounted
- · Maximum mounting height of 15m
- Power consumption of <0.5W
- · Settings available using the HRC-11 Remote Control Programming Tool

ACCESSORIES

HRC-11 Remote control

	RDLHRV-HMW32S
Detection Area:	360°
Mounting Height:	4m to 15m
Detection Range:	10m
Loading:	Max 800W fluorescent
	Max 800W LED
	Max 1,600W incandescent
Time Settings:	5 seconds to 30 minutes adjustable
Lux Settings:	3-2000lx
Stand-by level:	10% - 50%
IP:	65
Impact Rating (IK):	10
Weight (kg):	0.21
Box Qty:	1





Width

81.5

Depth

59



DIMENSIONS (mm) Length

RDLHRV-HMW32S 91.5

MOTION SENSOR (PIR AND MW)





MOTION SENSOR (PIR AND MW), 1-10V, SURFACE MOUNTED, BLACK

- This multifunction sensor utilises both Microwave and Passive Infra-Red technology.
- Combined PIR & MW sensors provide more reliable detection avoiding false triggering when the sensor is mounted on suspended fittings or other less stable mounting
- · Adjustable bracket which allows it to be mounted to most light fittings
- The sensor can be mounted between 4 and 15m high so is ideal for control of lighting in high and low bay areas as well as manufacturing, assembly and packing spaces
- Settings available using the HRC-11 Remote Control Programming Tool

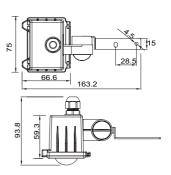
ACCESSORIES

HRC-11 Remote control

	RPIRMW-HIM31S
Detection Area:	360°
Mounting Height:	2.5m -15m
Detection Range:	5m -18m
Loading:	Max 800W fluorescent
	Max 800W LED
	Max 1,000W incandescent
Time Settings:	2 seconds to 30 minutes adjustable
Lux Settings:	2-500lx
Stand-by level:	10% - 50%
IP:	65
Impact Rating (IK):	10
Weight (kg):	0.3
Box Qty:	1







LED GRID DIMMER







LOADPRO 200W LED GRID DIMMERS

- · Suitable for use with MK (logic and grid plus), Wandsworth or Crabtree grid systems
- Trailing edge electronic dimmer optimised for LED loads
- Suitable for 2-way switching with standard switch
- · Soft start
- · Push on/off operation
- · Overload protection
- · Fits standard 41mm depth box

CONVERSIONS AVAILABLE



	RLA200	RLA200DTG-01	
Load Ratings	Min	Max	
LED:	5W	150W	
Weight (kg):		0.1	
Box Qty:		1	



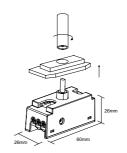






1-1111	I·IUA
5W	150W
	0.1
	1





LED DIMMER



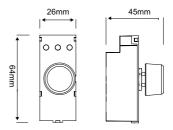
LOADPRO 400W DIMMER

- Trailing edge electronic dimmer optimised for LED loads
- Suitable for 2 way switching
- · Compatible with standard grid sizes
- Soft start
- · Push on/off operation
- · Overload protection
- Fits standard 41mm depth box

	RLA400DT-01	
Load Ratings	Min	Max
LED:	3W	150W
Weight (kg):		0.03
Box Qty:		1







DIMMABLE ELECTRONIC TRANSFORMERS FOR 12V DOWNLIGHTS



ELECTRONIC TRANSFORMER 105W, 12V

- 12V power supply for MR16 lamps
- Pre-heat soft-start function for input voltage surge protection. Suitable for 2-way switching with standard switch
- · Integral in-line fuse to ensure complete safety at end of life
- Thermal fuse ensures safe failure if in excess of ambient temperature
- Large mains terminals for loop in/ loop out, suitable for up to two 1.5mm2 T&E cables

	RM105DN
Total Power (W):	105
Weight (kg):	0.1
Box Qty:	1



DIMENSIONS (mm)	Length	Width	Height
RM105DN	120	45	25

SWIFT CONNECTOR





SWIFT 4-PIN PLUGGABLE CONNECTOR

- 4-pole male connector allows in line emergency power supplies to be connected to DOB LED downlights
- Large terminals accept 3 x 1.5mm2 multi-strand or solid conductors

	RSW44-P
Weight (kg):	0.1
Box Qty:	1

DIMENSIONS (mm)	Length	Height	Width
RSW44-P	122	22.5	43



The ROBUS SWIFT CONNECTOR system saves time and money by providing a fast and simple method of connecting an infinite number of standard and emergency fittings to the wiring infrastructure

It utilises 4 poles, each of which is able to accept

 3×1.5 mm² or 2×2.5 mm² conductors on the supply (female side) and has cable restraint for 3×4 core cables. These would trained to consist of:

Cable 1: Permanent live, earth & neutral

Cable 2: Earth, live & switched live to/from switch

Cable 3: Loop out permanent live, neutral, earth and switched live to additional fittings

DIMMER SWITCHES





DIMMER SWITCH, 1 Gang 2 Way

- · Push on/off operation
- Bakelite resin front plates in white RAL9010 finish
- Leading edge dimmer

	L2501G2W
	L4001G2W
	L10001G2W
Dimensions:	86x86





DIMMER SWITCH, 3 Gang 2 Way

- · Push on/off operation
- Bakelite resin front plates in white RAL9010 finish
- · Leading edge dimmer

	L2503G2W
Dimensions:	145x86





DIMMER SWITCH, 2 Gang 2 Way

- Push on/off operation
- · Bakelite resin front plates in white RAL9010 finish
- · Leading edge dimmer

	L2502G2W
	L4002G2W
Dimensions:	86x86







ACCESSORIES

LAMP HOLDERS	372
CLIPS, GLANDS	373
THERMOSTAT	374
SOCKETS	375

ACCESSORIES LAMP HOLDERS



GZ1050 lamp holder c/w 250mm leads

- Lamp holder for GU10 lamps
- Ceramic with silicon insulated wire

	SCGZ1050
Box Qty:	10
Weight (kg):	0.03







Bracket & lamp holder c/w terminal block housing for GU/GZ10 fittings

- Lamp holder for GU10 lamps
- C/w terminal block & support

	RBRGZ10
	SCGZ1050
	RBRGZ10SC
Total Power (W):	50
Cap Type:	GU10
Box Qty:	10
Weight (kg):	0.06









ACCESSORIES

CLIPS, GLANDS



Lamp retention spring clip

• Spare retention clip for R101/R108 downlight

	TLSC
Box Qty:	100



Lamp retention circular clip

• Spare circular retention clip for RS201E/RS208E

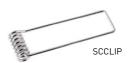
	TLSCRS20XE
Box Qty:	100



Spare ceiling clips for recessed fitting

· Spare retention clip for R101/R108 downlight

Clip	CCLIP
Box Qty:	100



Spare ceiling clips for recessed fitting

• Spare retention clip for R101/R108 downlight

Single Clip	SCCLIP
Box Qty:	100



Metric cable glands, IP68

- Water-proof cable glands, can also be used as cable clamps
- C/w lock nut
- Constructed from flame retardant UL94V-2 plastic moulding
- IP68 liquid tight seal
- · Rubber seal with integral ridges to grip cable securely
- · Easy and safe installation
- · Protects cables both indoors and outdoors

	RAG20	RAG25
Knock out hole diameter (mm):	20	25
Cable diameter range (mm):	7-14	10-18
Box Qty:	36	20







IP68 Connector & T Connector

- · IP68 connector for outdoor applications
- · Suitable to use for mains and low voltage circuits
- Max. conductor size of 2.5mm²

		T connector
Black	RCONIP68-04	RCONIP68T-04
Box Qty:	20	20
Weight (kg):	0.31	0.31







ACCESSORIES

THERMOSTAT



THERMOSTAT 2300W, 230/240V, 84MM, White

- · For heating or cooling control applications
- Por fleating of cooling control applications
 Up to 10A switching capacity
 Normally Open (NO) & Normally Closed (NC) contacts
 Temperature range 10° C to 30° C
 Injection moulded ABS
 Includes On/ Off switch

	RRF10
Total Power:	2300
Box Qty:	1
Weight (kg):	0.17









SOCKET DUPLICATOR/TRIPLICATOR





SOCKET DUPLICATOR, WHITE

- · Uses existing wiring
- · No need to change existing recessed box in wall
- Switched
- All polycarbonate construction virtually unbreakable

	RKC2S
Dimensions:	146x86

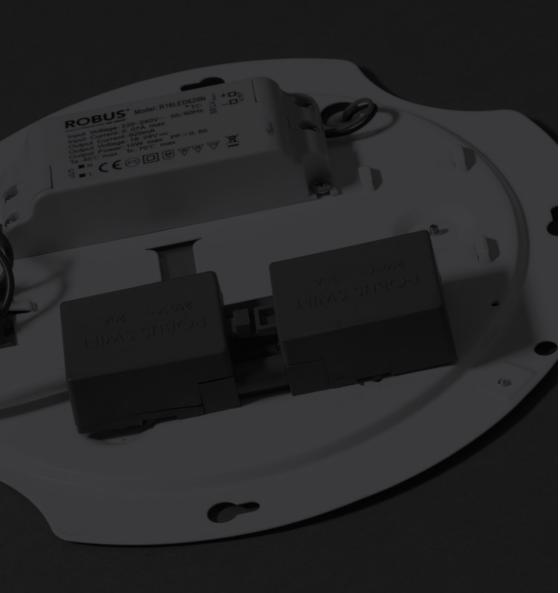


SOCKET TRIPLICATOR, WHITE

- Uses existing wiring No need to change existing recessed box in wall
- Switched
- All polycarbonate construction virtually unbreakable

	RKC3S
DIMENSIONS:	200X86





CUSTOMISED CONVERSIONS

INTRODUCTION	88
CONVERSION CODES	88
ORDERING MADE EASY	88
EXAMPLES	88



ROBUS light fittings and/or other pre-existing light fittings (non ROBUS) can be converted by our Customised Conversions department.

We provide bespoke product solutions by converting products to suit individual project requirements.

A Conversion is the process of taking a standard light fitting and modifying to enhance its functionality. Whether it is adding a battery pack to allow a fitting to become an emergency product or, adding a Microwave Sensor to enhance the energy savings the product can deliver. We can also adapt or modify products by adding extra lengths cable, male/female connectors or swift connectors to reduce labour time upon installation and/or provide a pre-wiring service.

OUR GUARANTEE

All converted luminaires are subject to rigorous test procedures and guaranteed for 12 months. All conversions meet the relevant requirements of: BS EN 60598-1 (Luminaires Part 1: General requirements and tests) and BS EN 60598.2.22 (Luminaires for emergency lighting).



ROBUS CUSTOMISED CONVERSIONS TEAM

We have been carrying out this service for 15 years for electrical wholesalers. Our highly experienced team are based in Dublin, and site visits are available by appointment.

The team has over 80 years of combined experience in the conversions industry, with most members working here for over 10 years.

MAIN CONTACT



CATHERINE REID Manager



JASON KENNEDY
Technical Manager



Conversions
Co-ordinator



JOHN LYNCH Team Lead



BRIAN STEWART
Team Lead

379

CONTACT US TODAY BY CALLING +353 1 709 9000 (OPT 2) OR EMAILING CONVERSIONSREQUESTS@ROBUS.COM

CUSTOMISED CONVERSIONS CONVERSION CODES & EXPLANATIONS

ROBUS PRODUCTS CAN BE ADAPTED TO INCLUDE:

E

Emergency

An emergency converted product operates in Emergency Mode when the Mains Power fails for a minimum of 3hr duration; this is to allow adequate safe escape lighting **within an area.**

STE

Self Test Emergency

Self-Test fittings perform a self-commissioning test at first power on. After charging for 24 hours a full duration test (3 hours) is performed. Initial function and duration tests are randomly generated reducing the costs of manual testing.

SWD

Switch Dimming

With Switch Dim it is possible to create lighting systems that can be easily switched and dimmed at low cost. With Switch Dimming it is possible to create lighting systems that can be easily switched and dimmed at low cost. It involves using Standard Mains Retractable Switch for lighting controls.

Commonly know as "PUSH DIM" or SWITCH DIM"

The different switching and dimming functions are performed depending on the operating status at the time and how long the switch is held "ON".

A fast press and release of the switch switches the product "ON or OFF".

A long press and hold on the switch will dim the product "UP or DOWN" depending on its current operating status.

AD

Analogue Dimming

Analogue dimming is usually referred to as 1 - 10v dimming. In this case, a DC voltage control is sent to the driver, which dims the LEDs.

Analogue dimming uses a separate control wire to notify the driver that the power of the LEDs should be changed. The separated control signal is a DC (direct current) and can be adjusted from 1 up to 10 volts, the voltage level is interpreted by the driver to set the LED power.

The 1-10V method of control is a low current system (typically 1mA) meaning it can be run along relatively thin cables with little voltage drop and depending on dimmer manufacturer recommendations. This allows for Multiple dimmable drivers on one wall to be mounted dimmer.

MD

Mains Dimming

Mains dimming is a simple way of dimming an LED product that can be controlled by a normal 240V dimmer. No additional control cables are required. This can help in areas that cannot be re-wired with additional cables. (Available in 10w, 15w Bulkheads and 40W Panel Lighting.

CUSTOMISED CONVERSIONS CONVERSION CODES

SEN

Sensor (Microwave)

A Microwave Sensor detects motion in a required area and allows the product to switch on to illuminate the area for a desired time. The standard maximum mounting height for Sensor products is 6M. A special 15M version is also available for Highbay / Warehouse Lighting.

3SD

3 Step Dimming

The 3SD Driver including Microwave Sensor also detects motion. The advantage of the 3SD is that the unit in question will dim to a selected light output (example 10%) for a selected time before switching totally off. Upon motion, the product will switch back on to 100% output for the desired time. (Commonly known as Corridor Function)

DAE

DALI Addressable Emergency

Converted units connected to a DALI bus are immediately visible to your DALI command centre. Unless programmed by the DALI controller, the fitting will enter a self-commissioning phase. Once a DALI command is received the fitting enters DALI mode and will perform functional and duration tests according to chosen DALI settings.

DD

DALI Dimming

Digital Addressable Lighting Interface (DALI) is a trademark for network -based systems that control lighting in building automation that can at was developed for the lighting industry. A separate control wire of BUS is used to send digital information to the product and allows the individual light fittings to communicate with an advanced lighting control system. Although DALI is a standard protocol beware of mixing components between manufacturers without testing first. Along with the correct LED Driver the DALI system requires additional control equipment including DALI controllers, power supplies, sensors and user interfaces.

PC

Photocell

A Photocell is a basically a sensor that is controlled by natural light. During the day, the light fitting will be OFF, at dusk, the light fitting switches ON. At dawn, the light fitting switches OFF again.

CUSTOMISED CONVERSIONS ORDERING MADE EASY

IT IS SIMPLE TO ORDER FROM CUSTOMISED CONVERSIONS, SIMPLY USE

Find the Product Code of the ROBUS fitting you need to be converted



MORPH LED CCT3 SELECTABLE DOWNLIGHT PRODUCT CODE: RMP20WCCT3DL-01

Select one of the abbreviated
Customised Conversion Codes
on the Lighting Dimming and/or
Lighting Controls list below
(if required).

LIGHTING DIMMING

Dali Dim

Analogue Dim

Swo Switch Dim

Mains Dim

LIGHTING CONTROLS

Microwave Sensor

ORPhotocell

SSO 3 Step Dimming

RMP20WCCT3DL-01 + DD = RMP20WCCT3DL-01DD

3

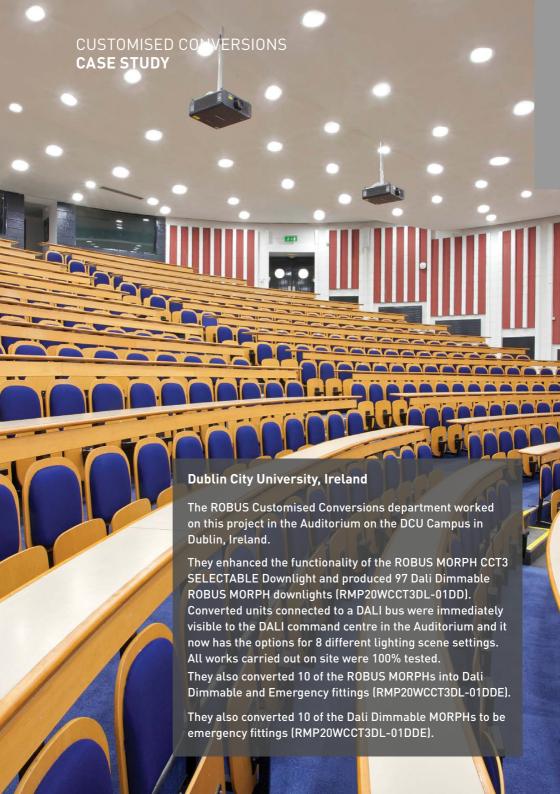
Select one of the abbreviated Customised Conversion Codes on the Emergency Lighting list below (if required). EMERGENCY LIGHTING

Emergency

Self Test Emergency

Dali Addressable Emergency

RMP20WCCT3DL-01 + DD + E = RMP20WCCT3DL-01DDE





CUT TO LENGTH SERVICE

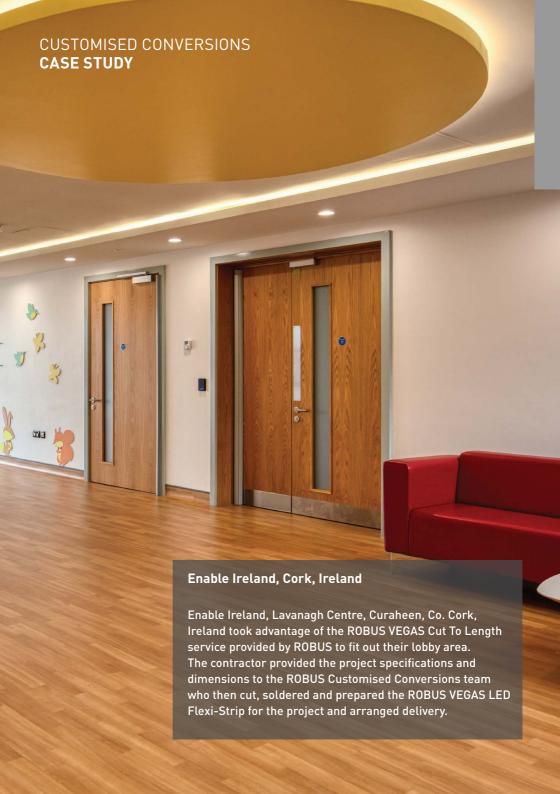
Available for ROBUS VEGAS LED Flexi-Strip Lights

Our ROBUS Customised Conversions technicians will modify your ROBUS VEGAS LED Flexi-strip lights to meet your individual project requirements. They will:

- Cut, solder and heat-shrink LED Flexi-strip light to the lengths you require
- Include a specific lead length on request (standard lead length 1m)
- Wire drivers
- Customise any LED Flexi-strip light to enable Emergency, Analogue Dimming, DALI
 Dimming and Switch Dim (Emergency 10M MAX Single Colour, DALI, Analogue and
 Switch Dimming 5M MAX Single Colour)
- Provide after sales technical support
- Goods can be dispatched to branch or end user and can be packed per specific room requirement

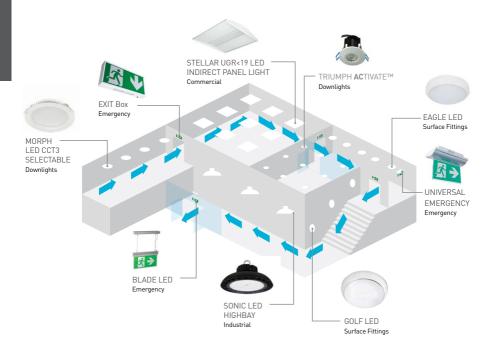
Turn Around Time 3-5 working days To avail of this fantastic service please contact your local ROBUS Area Sales Manager or our ROBUS Customised Conversions Team

Tel: +353 1 709 9000 (option 2)
Email: conversions requests Grobus.com



EMERGENCY SPACING TABLES

WHAT IS EMERGENCY LIGHTING



An emergency light is a lighting device with a battery pack that switches on automatically when a building suffers a power cut.

An emergency fitting's battery pack is required to power the light fitting for a minimum of 3 hours. To maintain power, the light output from the emergency light fitting is reduced usually to 10% of the regular light output.

Maintained fittings operate and are controlled as normal light fittings with all the other light fittings in the area. When power fails however, the maintained emergency light fitting continues to operate at a reduced light output.

Non-maintained fittings are usually switched off, with their batteries being continuously charged and a green LED showing fully charged. When power fails, non-maintained fittings switch on using the battery power supply. Non-maintained emergency fittings are not part of the general lighting but are more specific functional lighting such as emergency exit signs.

LIGHT LEVELS DURING AN EMERGENCY:

OPEN AREAS

The safest, quickest escape route without obstruction should be lit to a minimum of 1 lux during an emergency. Should the open area be less than 60m2 and is not part of an escape route then emergency lighting is not required. However, the exit doors for the emergency escape route must have signs or an emergency bulkhead.

DESIGNATED CORRIDORS

An escape route should not be obstructed and lit to a minimum of 1 lux during an emergency.

STAIRWELLS

Stairwells have increased hazards, therefore these areas should be lit to a minimum of 2 lux during an emergency.

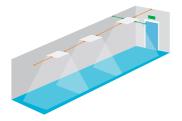
EMERGENCY SPACING TABLES

SPACING TABLES EXPLAINED

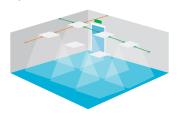
ROBUS emergency spacing tables provide the installer with the information to decide the number of luminaires required for the emergency lighting scheme.

The tables provide maximum distances between luminaires in order to provide Escape Route (1 lux) or Open Area (0.5 lux) emergency lighting at various mounting heights.

Escape Route / Corridor



Open Area



TRANSVERSE is the spacing measurement between the walls and emergency light fittings at right angles to the escape route.

AXIAL refers to the spacing measurement between the wall and/ or successive emergency light fittings in the direction parallel to the escape route.

Code	Mounting Height (M)	Escape Route		Open A	Area
		Transverse	Axial	Transverse	Axial
RAM40406060-01E	2.4	14	14	16	16
	4	17.5	17.5	19.5	19.5
RAM40506060-01E	2.4	14.5	14.5	16.5	16.5
	4	18	18	20	20

EMERGENCY SPACING INFORMATION

SPACING TABLES



Lur	minaire S _l	pacing (m) On E	Emerge	ncy Es	cape R	outes		
			Transverse to tance to Wall Transverse			istance Vall	Axial t	o Axial	
Product Code	Mounting Height (m)	0.5 Lux	1.0 Lux	0.5 Lux	1.0 Lux	0.5 Lux	1.0 Lux	0.5 Lux	1.0 Lux
STELLAR									
RSL28406060-01E	2.4	7	5.7	14	11.5	7	5.7	14	11.5
	4	8.7	6.7	17.5	13.5	8.7	6.7	17.5	13.5
ATMOS			•						
RAM40406060E-01	2.5	7.2	5.6	14	11	7.2	5.6	14	11
	3	7.7	6.1	15	12	7.7	6.1	15	12
	4	8.2	6.6	16	13	8.2	6.6	16	13
RAM40506060E-01	2.5	7.2	5.6	14	11	7.2	5.6	14	11
	3	7.7	6.1	15	12	7.7	6.1	15	12
	4	8.2	6.6	16	13	8.2	6.6	16	13
CAESAR									
RCA484012E-01	2.5	6.7	4.6	13	9	8.2	6.1	16	12
	3	7.2	5.4	14	10.5	8.7	6.6	17	13
	4	7.7	6.1	15	12	9.1	7.2	18	14
RCA484015E-01	2.5	6.7	4.6	13	9	8.2	6.1	16	12
	3	7.2	5.4	14	10.5	8.7	6.6	17	13
	4	7.7	6.1	15	12	9.1	7.2	18	14
RCA804015E-01	2.5	6.7	4.6	13	9	8.2	6.1	16	12
	3	7.2	5.4	14	10.5	8.7	6.6	17	13
	4	7.7	6.1	15	12	9.1	7.2	18	14
VULCAN				ļ	l	<u>I</u>	l	ļ.	
RVUF405FTE-24	2.5	7.1	5.6	14	11	7.6	6.1	15	12
	3	7.6	5.8	15	11.5	8.3	6.4	16.5	12.5
	4	8.6	6.1	17	12	9.1	6.6	18	13
RVUF805FTE-24	2.5	7.1	5.6	14	11	7.6	6.1	15	12
	3	7.6	5.8	15	11.5	8.3	6.4	16.5	12.5
	4	8.6	6.1	17	12	9.1	6.6	18	13
SULTAN & SULTAN 110V									
RSUF484FTE-24	2.5	7.7	5.8	15	11.5	8.2	6.4	16	12.5
	3	8.2	6.4	16	12.5	8.7	6.9	17	13.5
	4	8.7	7.2	17	14	9.7	7.6	19	15
RSUF405FTE-24	2.5	7.1	5.6	14	11	7.6	6.1	15	12
	3	7.6	5.8	15	11.5	8.3	6.4	16.5	12.5
	4	8.6	6.1	17	12	9.1	6.6	18	13
RSUF805FTE-24	2.5	7.1	5.6	14	11	7.6	6.1	15	12
	3	7.6	5.8	15	11.5	8.3	6.4	16.5	12.5
	4	8.6	6.1	17	12	9.1	6.6	18	13
RSUF244FTE-24	2.5	7.7	5.8	15	11.5	8.2	6.4	16	12.5
	3	8.2	6.4	16	12.5	8.7	6.9	17	13.5
	4	8.7	7.2	17	14	9.7	7.6	19	15

EMERGENCY SPACING INFORMATION **SPACING TABLES**



	Transverse Distance to Wall	Transverse to Transverse	Axial Distance to Wall	Axial to Axial
Product Code	0.5 Lux	0.5 Lux	0.5 Lux	0.5 Lux
STELLAR				
RSL28406060-01E	7	14	7	14
	8.7	17.5	8.7	17.5
ATMOS				
RAM40406060E-01	6.8	13.5	6.8	13.5
	7.3	14.5	7.3	14.5
	7.5	15.5	7.5	15.5
RAM40506060E-01	6.8	13.5	6.8	13.5
	7.3	14.5	7.3	14.5
	7.5	15.5	7.5	15.5
CAESAR	l.			
RCA484012E-01	6.5	12.5	7.5	15.5
	6.8	13.5	8.3	16.5
	7.3	14.5	8.8	17.5
RCA484015E-01	6.5	12.5	7.5	15.5
	6.8	13.5	8.3	16.5
	7.3	14.5	8.8	17.5
RCA804015E-01	6.5	12.5	7.5	15.5
	6.8	13.5	8.3	16.5
	7.3	14.5	8.8	17.5
VULCAN	l l			
RVUF405FTE-24	6.8	13.5	7.3	14.5
	7.3	14.5	8	16
	8.3	16.5	8.8	17.5
RVUF805FTE-24	6.8	13.5	7.3	14.5
	7.3	14.5	8	16
	8.3	16.5	8.8	17.5
SULTAN & SULTAN 110V				
RSUF484FTE-24	7.3	14.5	7.8	15.5
	7.8	15.5	8.3	16.5
	8.3	16.5	9.5	18.5
RSUF405FTE-24	6.8	13.5	7.3	14.5
	7.3	14.5	8	16
	8.3	16.5	8.8	17.5
RSUF805FTE-24	6.8	13.5	7.3	14.5
	7.3	14.5	8	16
	8.3	16.5	8.8	17.5
RSUF244FTE-24	7.3	14.5	7.8	15.5
	7.8	15.5	8.3	16.5
	8.3	16.5	9.5	18.5

EMERGENCY SPACING INFORMATION

SPACING TABLES



	Luminaire Spacing (m) On Emergency Escape Routes								
			verse e to Wall		erse to verse		istance Vall	Axial t	o Axial
Product Code	Mounting Height (m)	0.5 Lux	1.0 Lux	0.5 Lux	1.0 Lux	0.5 Lux	1.0 Lux	0.5 Lux	1.0 Lux
HARBOUR				•		•			
RHA20402FT-24E	2.5	7.5	5.75	15	11.5	6.5	5.25	13	10.5
	3	6.3	4.8	12.7	8.5	9.7	4.5	12	9
	4	8.5	6.5	17	13	8	6	16	12
RHA40404FT-24	2.5	7.5	5.75	15	11.5	6.5	5.25	13	10.5
	3	6.3	4.8	12.7	8.5	9.7	4.5	12	9
	4	8.5	6.5	17	13	8	6	16	12
RHA28405FT-24E	2.5	7.5	5.75	15	11.5	6.5	5.25	13	10.5
	3	6.3	4.8	12.7	8.5	9.7	4.5	12	9
	4	8.5	6.5	17	13	8	6	16	12
EAGLE									
REES7P040E-01	2.5	5.2	4.1	10	8	5.2	4.1	10	8
	3	5.7	4.3	11	8.5	5.7	4.3	11	8.5
	4	6.2	4.6	12	9	6.2	4.6	12	9
REEM01040E-01	2.5	5.2	4.1	10	8	5.2	4.1	10	8
	3	5.7	4.3	11	8.5	5.7	4.3	11	8.5
	4	6.2	4.6	12	9	6.2	4.6	12	9
REEM01540E-01	2.5	5.2	4.1	10	8	5.2	4.1	10	8
	3	5.7	4.3	11	8.5	5.7	4.3	11	8.5
	4	6.2	4.6	12	9	6.2	4.6	12	9
REEL02440E-01	2.5	6.3	5.2	12.5	10	6.3	5.2	12.5	10
	3	6.9	5.4	13.5	10.5	6.9	5.4	13.5	10.5
	4	7.2	6.1	14.5	12	7.2	6.1	14.5	12
HAWK			•					•	•
RHKM01040E-01	2.5	5.2	4.1	10	8	5.2	4.1	10	8
	3	5.7	4.3	11	8.5	5.7	4.3	11	8.5
	4	6.2	4.6	12	9	6.2	4.6	12	9
RHKM01540E-01	2.5	5.2	4.1	10	8	5.2	4.1	10	8
	3	5.7	4.3	11	8.5	5.7	4.3	11	8.5
	4	6.2	4.6	12	9	6.2	4.6	12	9
GOLF									
R075LEDE-01	2.5	6.2	4.8	12	9.5	6.2	4.8	12	9.5
	3	6.8	5.2	13	10	6.8	5.2	13	10
	4	7.2	5.4	14	10.5	7.2	5.4	14	10.5
R100LEDE-01	2.5	6.2	4.8	12	9.5	6.2	4.8	12	9.5
	3	6.8	5.2	13	10	6.8	5.2	13	10
	4	7.2	5.4	14	10.5	7.2	5.4	14	10.5
R150LEDE-01	2.5	6.2	4.8	12	9.5	6.2	4.8	12	9.5
	3	6.8	5.2	13	10	6.8	5.2	13	10
	4	7.2	5.4	14	10.5	7.2	5.4	14	10.5

EMERGENCY SPACING INFORMATION **SPACING TABLES**



	Transverse Distance to Wall	Transverse to Transverse	Axial Distance to Wall	Axial to Axial
Product Code	0.5 Lux	0.5 Lux	0.5 Lux	0.5 Lux
HARBOUR				
RHA20402FT-24E	7.5	15	6.5	13
	6.3	12.7	9.7	12
	8.5	17	8	16
RHA40404FT-24	7.5	15	6.5	13
	6.3	12.7	9.7	12
	8.5	17	8	16
RHA28405FT-24E	7.5	15	6.5	13
	6.3	12.7	9.7	12
	8.5	17	8	16
EAGLE			•	
REES7P040E-01	5	9.5	5	9.5
	5.5	10.5	5.5	10.5
	6	11.5	6	11.5
REEM01040E-01	5	9.5	5	9.5
	5.5	10.5	5.5	10.5
	6	11.5	6	11.5
REEM01540E-01	5	9.5	5	9.5
	5.5	10.5	5.5	10.5
	6	11.5	6	11.5
REEL02440E-01	6.1	12.1	5.2	12.1
	6.8	13	5.4	13
	7.1	14	6.1	14
HAWK				
RHKM01040E-01	5	9.5	5	9.5
	5.5	10.5	5.5	10.5
	6	11.5	6	11.5
RHKM01540E-01	5	9.5	5	9.5
	5.5	10.5	5.5	10.5
	6	11.5	6	11.5
GOLF				
R075LEDE-01	6	11.5	6	11.5
	6.5	12.5	6.5	12.5
	7	13.5	7	13.5
R100LEDE-01	6	11.5	6	11.5
	6.5	12.5	6.5	12.5
	7	13.5	7	13.5
R150LEDE-01	6	11.5	6	11.5
	6.5	12.5	6.5	12.5
	7	13.5	7	13.5

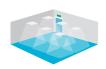
EMERGENCY SPACING INFORMATION

SPACING TABLES



Lui	Luminaire Spacing (m) On Emergency Escape Routes								
		Trans	verse e to Wall		erse to	Axial D	istance Vall	Axial t	o Axial
Product Code	Mounting Height (m)	0.5 Lux	1.0 Lux	0.5 Lux	1.0 Lux	0.5 Lux	1.0 Lux	0.5 Lux	1.0 Lux
DESMOND									
RDD1P5Q-01	2.4 4	5 6.5	4 5	10 13	8 10	5 6.5	4 5	10 13	8 10
DYNAMO									
R2WLEDNME-01	2.5 3 4	7 7.3 7.5	5.5 5.8 6	14 14.5 15	11 11.5 12	7 7.3 7.5	5.5 5.8 6	14 14.5 15	11 11.5 12
ORMOND									
R1WLEDNME-01	2.5 3 4	5.3 5.8 6.3	4.5 4.7 5.3	10.5 11.5 12.5	9 9.5 10.5	5.3 5.8 6.3	4.5 4.8 5.3	10.5 11.5 12.5	9 9.5 10.5
8W LED									
R8MLED3-01+13	2.5 3 4	3.8 4.1 4.3	2.7 2.9 3.1	7.5 8 8.5	5.3 5.8 6.3	4.2 4.5 4.8	2.8 3.1 3.4	8 8.5 9	5.5 6 6.5
LED BULKHEAD									
R8MLED-01	2.5 3 4	4.2 4.5 4.7	3.2 3.4 3.6	8 8.5 9	6 6.3 6.5	4.2 4.5 4.7	3.2 3.4 3.6	8 8.5 9	6 6.3 6.5
UNIVERSAL GEAR TRAY									
R8MUSTLED-01	2.5 3 4	5.8 6 6.2	4.5 4.7 4.9	11 11.5 12	8.5 9 9.5	6.3 6.5 6.7	5 5.2 5.4	12 12.5 13	9.5 10 10.5
CONVERSION KIT									
R13LEDME-CU2	2.5 3 4	5.2 6.4 7	4.3 4.8 5.2	10 11 12.5	8.5 9.2 10	5.2 6.4 7	4.3 4.8 5.2	10 11 12.5	8.5 9.2 10

EMERGENCY SPACING INFORMATION **SPACING TABLES**



Luminaire S _I	pacing (m) In Ant	i Panic Open Are	eas (Incl 0.5m Bo	rder Area)	
	Transverse Distance to Wall	Transverse to Transverse	Axial Distance to Wall	Axial to Axial	
Product Code	0.5 Lux	0.5 Lux	0.5 Lux	0.5 Lux	
DESMOND				•	
RDD1P5Q-01	5 6.5	10 13	5 6.5	10 13	
DYNAMO			•	•	
R2WLEDNME-01	6 7 7.3	13 14 14.5	6 7 7.3	13 14 14.5	
ORMOND			•		
R1WLEDNME-01	5 5.5 6	10 11 12	5 5.5 6	10 11 12	
8W LED					
R8MLED3-01+13	3.8 4.1 4.5	7.2 7.8 8.2	4.1 4.5 4.9	7.8 8.2 8.8	
LED BULKHEAD					
R8MLED-01	4.1 4.4 4.6	7.8 8.2 8.8	4.1 4.4 4.6	7.8 8.2 8.8	
UNIVERSAL GEAR TRAY					
R8MUSTLED-01	6 6.3 6.6	10.5 11 11.5	5 5.3 5.8	9.5 10 10.5	
CONVERSION KIT			1		
R13LEDME-CU2	5 6.2 6.8	9.7 10.8 12.2	5 6.2 6.8	9.7 10.8 12.2	

ROBUS VISION & VALUES	396
QUALITY APPROVALS	406
QUALITY AND RELIABILITY	410
TERMS & CONDITIONS	412
IP RATING	414
IK RATING	415
LAMP TYPES	416
LAMI III LO	410
PART L1 AND L2	418
PART L1 AND L2	418
PART L1 AND L2 HOW TO USE THIS CATALOGUE	418 422



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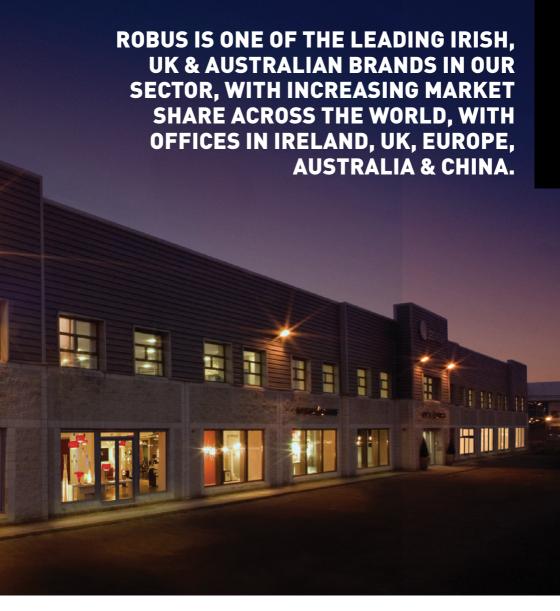
PRODUCT LINES

3,000+

ROBUS STOCKISTS IN 40 COUNTRIES

60+

DIRECTLY EMPLOYED SALES PERSONNEL



250

TALENTED PEOPLE
EMPLOYED WORLDWIDE

35+

YEARS DELIVERING
LIGHTING EXPERIENCE

20

YEARS DESIGNING AND MANUFACTURING WINNING LED PRODUCT LINES

OUR VISION

WE ARE A GLOBAL LIGHTING COMPANY, WITH A VISION TO MAKE OUR BRAND ROBUS THE MOST TRUSTED LED LIGHTING BRAND IN THE COUNTRIES IN WHICH WE SERVE. WE ARE IN A STRONG POSITION TO ACHIEVE THIS GIVEN OUR STABILITY AND PROVEN TRACK RECORD OF CONTINUALLY ACHIEVING AND SURPASSING GOALS AND PERFORMANCE MEASUREMENTS.

OUR VALUES

ACCOUNTABILITY

We always do what we say we will do.

AMBITION

We have ambitious growth plans. We attract ambitious people. We're innovative, constantly searching for new ideas

CUSTOMER FOCUS

Our customers are the reason we exist. Our conversations around business strategies are held with customers. Their needs drive our decisions.

EMPOWERMENT

We give people autonomy to do their job effectively, fostering an entrepreneurial spirit.

FAST PACE

We make decisions quickly, communicating positive energy and drive.

WE ARE A BUSINESS BUILT AND SUSTAINED BY TALENTED PEOPLE, WHO DELIVER INNOVATION AND NEW PRACTICES THAT DRIVE OUR GROWTH STRATEGY. WE ARE A BUSINESS BUILT ON CUSTOMER LOYALTY. THE COMMON ELEMENT ACROSS OUR 5 CORE VALUES IS INTEGRITY. TO FULFIL OUR VISION AND EARN TRUST, THIS MUST BE AT THE HEART OF EVERYTHING WE DO. THAT'S WHY WE ARE ACCOUNTABLE – WE ALWAYS DO WHAT WE SAY WE WILL DO.

WE UNDERSTAND THE VALUE OF TRUST. IT IS AT THE HEART OF EVERYTHING WE DO.





YOU CAN TRUST US:

TO BE EASY TO DEAL WITH

- Our entrepreneurial approach means our teams always do what they say they will do
- Our front-line sales people are empowered to make decisions locally
- We promise continuity of supply, order accuracy and efficient processes across the business

TO SUPPLY HIGH QUALITY, RELIABLE LIGHTING PRODUCTS

- We won't compromise on quality
- We deliver industry-leading QC measures
- All products have full independent certification

FOR MARKET-LED PRODUCT INNOVATION

- Our product teams have a proven track record of delivering commercial results for our customers
- We continuously identify and assess emerging technologies and trends
- We continuously implement technical improvements and introduce new products

TO PRIORITISE YOUR PROFIT RETENTION

- Our business succeeds when our customers' businesses succeed
- We actively seek business for our stockists

SINCE ITS INTRODUCTION THE ROBUS BRAND OF LIGHTING SOLUTIONS HAS BECOME SYNONYMOUS WITH INNOVATION, QUALITY AND VALUE FOR MONEY.

Simple installation, significant energy savings and 'fit and forget' solutions are key hallmarks of the range.

All new product introductions to the ROBUS range are advanced LED solutions to replace traditional light sources for both commercial and residential applications.

Over 1,100 product lines are held at our Central Distribution Centres in Dublin and Australia.

402

WHY ROBUS?

The ROBUS range of high quality lighting products provides the ultimate 'fit and forget' solution.

- Established in 1984 extensive industry experience
- Over 19 years manufacturing LED Lighting
- Over 35 years servicing the electrical industry
- Quick and easily installed products
- In-house reliability testing & quality control codes of practice
- Maintenance saving or in some instances elimination
- ROBUS Retrofit LED solutions use energy more efficiently
- Delivering higher lumens per watt
- Legislation compliance
- Colour consistency
- Uniform light distribution
- Photometrics genuine performance files for use with lighting design software
- Full solutions emergency, dimmable, dual power and sensor options to suit a range of applications
- Warranties of 2 to 5 years

ROBUS QUALITY

LED TECHNOLOGY HAS CHANGED THE WAY WE MEASURE AND PRESENT LIGHTING PERFORMANCE INFORMATION.

Currently the lighting industry is full of confusion and inflated claims from some brands with regards to colour stability, efficiency, lumen output and reliability.

ROBUS products are produced to standards, using only high spec LEDS from leading brands, who have precise and reliable performance data on their LED chips.

Furthermore, we are committed to rigorous testing and the provision of honest and accurate product information.

The technical information presented in this catalogue follows the industry guidelines for presentation of LED product data. All ROBUS products come with warranties.

ROBUS -

our information is black and white!

See the back section of the catalogue for details on Quality Approvals including the Carbon Trust Green Business Fund, Enhanced Capital Allowances; SEAI Triple E scheme and the LIA verified scheme.





QUALITY APPROVALS

ROBUS°

ACCREDITED SUPPLIER FOR THE CARBON TRUST GREEN BUSINESS FUND

ROBUS have been approved by The Carbon Trust as an Accredited Supplier for the Green Business Fund.

It is an independent validation and recognition of the skills and services of Robus to supply high quality energy efficient lighting solutions - a much needed and trusted quality standard in a crowded and fast-growing market place.

To gain Accredited Supplier status Robus have shown that they meet or exceed criteria set by the Carbon Trust designed to examine their capability to deliver thoughtful, well-designed, energy efficient and renewable energy solutions.

The Carbon Trust Green Business Fund provides direct funded support through energy assessments, training workshops, equipment procurement support and up to £5,000 capital contribution (none repayable) per company towards energy saving equipment purchases for small and medium size businesses.

The Green Business fund is estimated to be available until the summer of 2018. If other funding is obtained, the scheme will be extended.

GREEN BUSINESS FUND ELIGIBILITY



Who is eligible current GBF sen	
Small & medium sized businesses	√
Schools	✓
Sole Traders	✓
Charities	√
Domestic properties	×
Public Sector	×
New builds	×
$\overline{}$	

How does the GBF define an SME?

Business which meets any two of the following criteria:

No more than 250 employees;

Annual turnover not in excess of £25.9 M; or

Annual balance sheet not in excess of £12.9 M

AND not more than 25% owned by an entity which does not meet

CAPITAL CONTRIBUTION

- 15% towards the purchase of energy saving equipment for projects £5,000 to £33,333
- Upper limit £5,000 contribution for projects ≥£33,333
- Projects should 'payback' in 5 years
- Projects should be delivered by Carbon Trusts Accredited Suppliers
- Evidence required prior to transfer of funds
- Can't retrospectively fund projects

(A wholesaler or installing contractor can supply a quotation for Robus products and should clearly state the Robus products being used/quoted, together with Product Information Documents for them) Customers should consult the Carbon Trust Green Business Fund Website for more information

the criteria

www.carbontrust.com



ROBUS BY LED GROUP NANGOR ROAD DUBLIN 12 D12E7VP IRELAND T. +353 1 709 9000 F. +353 1 709 9060 E. INFO@ROBUS.COM ROBUS.COM ROBUSDIRECT.COM

LED GROUP EUROPE · AUSTRALIA · ASIA · MIDDLE EAST · AFRICA



Below is an extract from the Carbon Trust Green Business Fund Website for the eligibility criteria. If this is met, the application process can be instigated with the Carbon Trust Green Business Fund team.

Before applying to the scheme, you need to check if your business is eligible;

Is your business a small to medium sized business?

Is your business based in England, Scotland or Wales?

Are you considering a project that will deliver on site fossil fuel energy savings?

If you can answer 'yes' to the above, then please gather the following information:

- Organisation Details: Number of full time employees, annual turnover, total value of gross assets, trading
 period, and knowledge of whether a large enterprise has more than a 25% controlling interest in your business.
- Project Details: Brief details of the equipment being replaced and installed. It is necessary to provide details
 of existing energy consumption, hours of operation, unit prices for each fuel type, your current use in kWh, and
 projected usage after the equipment has been installed.
- Total Project Cost: This can include both the cost of capital expenditure and installation.
- Accredited Supplier Details: The name of your chosen accredited supplier from the Green Business Directory
 or BESA's accredited supplier list.
- Energy Saving: A completed Energy Savings Assessment Template, which captures information about the
 projected energy savings relating to the project. Your accredited supplier will assist you in completing this.
- Supplier's quote: An electronic copy of your supplier's quotation. This quotation must meet our requirements, which are shown in the sample documentation guide 'Getting it Right First Time supplier documentation'.
- Existing Capital Contribution: Details of any previous capital contributions received from the Green Business Fund.
- Bank Details: Your business bank details into which funds will be transferred.
- Additional information: Depending on whether your business is incorporated or unincorporated, you will need
 to provide additional information as shown on our guide 'Green Business Fund What We Need'.





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QUALITY APPROVALS

ENHANCED CAPITAL ALLOWANCES

Businesses are often tempted to opt for products with the lowest purchase price but such immediate cost savings often prove to be a false economy. Take advantage of the Enhanced Capital Allowance scheme for energy-saving technologies by installing ROBUS ETCL (Energy Technology Criteria List) approved products.



Enhanced Capital Allowances (ECAs) are a straightforward way for a business to improve its cash flow through accelerated tax relief on the cost of lighting products, transport to site and cost of installation.

Example:

NON-ETCL APPROVED LIGHTING For a business installing Non-ETCL approved lighting to the value of £8,500 and paying tax @ 20%		ROBUS ETCL APPROVED LIGHTING For a business installing ROBUS ETCL approved lighting to the value of £8,500 and paying tax @ 20%	
Write down allowed Year 1 18% Tax relief @ 20%	= £1,530 = £306	Write down allowed Year 1 100% Tax relief @20%	= £8,500 = £1,700
So, for every £8,500 spent, the tax bill is reduced by £306 in Year 1 Net cost in Year 1	= £8,194	So, for every £8,500 spent, the tax bill is reduced by £1,700 in Year 1 Net cost in Year 1	= £6,800

For more information visit www.carbontrust.com

SEAI

Investing in SEAI Triple E registered products improves energy efficiency results, reducing energy bills and shorter payback periods.



Use ROBUS Triple E registered products to reduce future operating costs and see utility bills dramatically lowered.

All products on the Triple E Products Register meet a minimum set of stringent efficiency criteria and typically will be of a best in class efficiency standard.

Public Procurement Regulations

The EUROPEAN UNION (ENERGY EFFICIENT PUBLIC PROCUREMENT) REGULATIONS 2011 state that a public body shall only procure equipment or vehicles which

(a) are listed on the Register*, or

(b) satisfy the published SEAI energy efficiency criteria for the equipment or vehicle concerned, and the public body shall specify this requirement in any documentation describing its procurement requirements.



QUALITY & RELIABILITY

QUALITY APPROVALS

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CE Approval

All ROBUS products carry the CE mark. CE mark is a statement that the product complies with all relevant European directives and standards. CE marking indicates compliance with the requirement of:

- 1. Low voltage directive for electrical safety (73/23/EEC as amended by 93/96/EEC)
- EMC directive for electro magnetic compatibility (89/336/EEC as amended 92/31/EEC)

QUALITY MANAGEMENT SYSTEM

ROBUS Quality Management System is certified to 90001:2015.



ENVIRONMENTAL MANAGEMENT SYSTEM

ROBUS Environmental Management System is certified to ISO 14001:2015.



Installation

All ROBUS products are supplied with installation instructions. ROBUS will not be held responsible for failure of products due to installations not in accordance with supplied installation instructions or in an unsuitable environment.

Unless stated otherwise, products contained within this catalogue are for installation in 'normal' environments. Ambient temperature, control methods and environmental conditions have an influence on the suitability of many products for installation in some areas. IP ratings of products should be considered relative to the environmental conditions in which they are to be installed - ingress protection. Life expectancy of some light sources and control gear may be reduced significantly by short time delay switching, particularly PIR and time lag switches. Time delay off should be set to 30 minutes to minimise premature failure of some fluorescent light sources. Where shorter time delay periods are required to make optimum energy savings, LED products should be considered, as although more expensive initially, they will pay back in relatively short periods of time. Please contact technical support if you are in any doubt about the suitability of products for specific operating conditions

All performance data listed are subject to tolerances of +/- 10% unless otherwise stated.

QUALITY & RELIABILITY

LED Lighting boasts many advantages; energy efficiency, low maintenance, long life and ease of installation to name a few. But all LED Lighting is not the same.

The upfront investment in LED technology is higher, and easily justified; but how do you know if the LED's you are buying are good quality or suitable for purpose? What LED brands are you investing in and what do you know about their quality assurances?



Questions you should ask your LED lighting supplier

QUESTION 1: What LED is used in the product?

The supplier should know the LED used as the quality of an LED product can depend strongly on this.

Lower tier LEDs can exhibit significant reductions in light output and shifts in colour after only a short operating period. Datasheets and LM-80 data should be available for the LEDs in question, which can be used to determine if they are being driven at the correct current and temperature and what the expected lifetime will be.

QUESTION 2: What lifetime is claimed for the product and what is the warranty period?

Lifetime claims can be greatly exaggerated and reflect LEDs operating under ideal conditions rather than the actual product as a whole.

A fitting is only as good as its weakest link.

Lifetime and warranty periods are not the same!

Warranty period is most applicable for energy saving and return on investment calculations.

Be very wary of any warranty period offered that is longer than the supplier has been in business.

Consider the level of support available if there are any future issues with the product.

Are full photometric files (.LDT, .IES, etc.) available for the product?

Lumen output and efficacy claims may be exaggerated by basing values on LEDs operating under optimum conditions, rather than on the complete fitting. In general, products must be sent to an independent test lab to generate the photometric files.

These files are a very useful means to verify product performance.

Photometric files are also essential for lighting designers to model lighting installations in Relux or Dialux lighting design software.

QUESTION 4: What is the colour binning range for the product (e.g.

range for the product le.g.
4000K +/- 5%) and what are the
specific colour bins used?
LED products can vary significantly in

colour from batch to batch unless the supplier understands and controls the binning range.

The supplier should be able to provide this binning information and ensure that there is the minimum of colour variation (MacAdam Ellipses) between batches.

QUESTION 5: Does the product have the relevant certification approvals for the application?

Certification is best practice to ensure a product meets Safety, EMC and Environmental requirements.

For this reason, and since it is expensive for suppliers to obtain, evidence of certification is a useful way to determine product and supplier quality.

CE Marking also carries with it obligations with respect to meeting minimum product performance levels as defined by ERP Directives.

It is the responsibility of the supplier to be able to prove that a product is inherently safe and fit for purpose – there are sanctions for not meeting this.

QUESTION 6: If it is a dimmable product, what dimmers is the product compatible with?

LED products are suitable for dimming if properly specified.

The supplier should be able to provide a list of compatible dimmers that can be used with the product.

QUESTION 7: What is the CRI (Colour Rendering Index) of the product?

Light quality is measured by CRI, which is important for many illumination applications, as it indicates how realistic colours may appear.

Most internal lighting applications should use CRI of 80 or above, whereas CRI of 65 or above is acceptable for external lighting applications.

QUESTION 8: What is the Power Factor of the product?

Poor power factor results in inefficient use of power from the electrical grid.

This is important for larger installations as electricity providers can sometimes impose penalties for this.

For fittings of 25W or greater, power factor must exceed 0.9.

QUESTION 9: What is the THD (Total Harmonic Distortion) of the product?

High levels of THD can result in voltage and current spikes when a product is switched on, resulting in circuit breakers tripping.

This is important for larger installations as the effect is increased for increased fittings.

TERMS & CONDITIONS

1. Definitions

- 1.1 Buyer' means the person who agrees to buy the goods from the Seller in the course of their business, trade or profession.
- 1.2 Consumer' means a person who agrees to buy the Goods or Services from the Seller and who has rights under current Irish Consumer legislation including the Sale of Goods Act 1893, the Sale of Goods and Supply of Services Act 1980, the Consumer Credit Act 1995 and the Consumer Protection Act 2007.
- 1.3 'Goods' means the articles which the Buyer or Consumer agrees to buy from the Seller.
- 1.4 "Services" means the Seller's lighting design service.
- Seller' means LED Lighting and Electrical Distribution Group of Western Retail Park, Nangor Road, Dublin 12,
- 1.6 'Price' means the price for the Goods or Services including carriage and packaging costs but excluding VAT unless otherwise stated. Please note that a price quotation for orders for European and Worldwide destinations (excluding Ireland & UK) does not include the carriage fee.

2. Conditions, Order Confirmation and Cancellation

- 2.1 Any variation of these Conditions (including any special terms and conditions agreed between the parties) shall be inapplicable unless agreed in writing by Seller.
- 2.2 An order is deemed to be confirmed once a valid purchase order is received from Buyer or Consumer. Buyer and Consumer acknowledge that they have read and understood these terms and conditions as they appear in our current catalogue from which the Goods have been selected and/or our website (in the case of internet orders) and/or prior to sending a purchase order and in all applicable cases, agree to be bound by them.
- 2.3 Cancelled Delivery: An order may be cancelled up to the point of it being despatched with no additional charges. If the Goods have left Seller's premises, then Buyer or Consumer shall pay the cost of carriage for shipping back to Seller. The local Area Sales Manager will issue a return authorisation to be sent with Buyer or Customer's debit note. This only applies to orders cancelled within 24 hours of the order being placed. After this, the Goods can only be returned as a stock cleanse or Goods not required, under clause 8.2 or 8.3 below.
- 2.4 All orders for Goods or Services shall be deemed to be an offer by Buyer or Consumer to purchase Goods or Services from Seller and Seller's delivery of the Goods or Services ordered shall constitute acceptance of such offer.
- 2.5 In the event of a minor change in product specification dictated by Seller's suppliers and/or technological requirements arising after an order has been confirmed, Seller reserves the right to deliver substitute Goods most closely meeting Buyer's order by reference to Seller's Product Information documents on Seller's website but without prejudice to Buyer or Consumer's rights under clause 2.3.

3. Price and Payment

3.1 Prices are in Euro (€) or Pound Sterling (€) or US
Dollars (\$) exclusive of VAT unless otherwise stated

- 3.2 Payment of the Price (and VAT unless otherwise stated) by Buyer shall be due strictly within the prior negotiated credit terms as agreed between the parties from the date of the invoice and on approved accounts and in the case of Consumer or unapproved Buyer account sales, at the point of purchase.
- 3.3 If payment is not received from Buyer on the due date then without prejudice to any of the Seller's other rights Seller may:
- 3.3.1 suspend or cancel deliveries of any Goods or Services due to Buyer; and/or without prior notice
- 3.3.2 appropriate any payment made by Buyer to such Goods or Services [or made under any other contract with Buyer] that Seller may in its sole discretion think fit; and/or
- 3.3.3 treat this contract as repudiated by Buyer.
- 3.4 Buyer or Consumer may not withhold payment of any invoice or other amount due to Seller by reason of any right of set-off or counterclaim which Buyer or Consumer may assert for any reason whatsoever.

4. Risk and Loss or Damage to Goods

- 4.1 The risk in respect of all Goods supplied by the Seller shall pass to the Buyer or Consumer upon delivery to the Buyer or Consumer or dispatch by Seller in accordance with Buyer or Consumer's delivery instructions. It is Buyer or Consumer's responsibility to inspect the Goods prior to acceptance. Signature of a delivery docket by or on behalf of Buyer or Consumer shall be deemed acceptance of the Goods in the condition in which they are delivered and release Seller from all liability in respect of damage in transit or shortages.
- 4.2 Where damage or loss or shortages occur to the Goods prior to risk passing to the Buyer or Consumer, it shall be Buyer or Seller's responsibility to note such damage or loss or shortages on the delivery docket and, within 3 working days from the date of delivery, notify Seller in writing of the particulars in order to validate a claim, quoting the delivery docket reference.
- 4.3 Buyer or Consumer must return all Goods damaged in transit that have not been accepted to Seller properly packaged within one month of inspection.

Retention of Title

- 5.1 Ownership of the Goods shall remain the property of Seller until such a time as Buyer or Consumer has paid the Price (including VAT) in full, and no other sums whatever shall be due from Buyer or Consumer to Seller whether in respect of those Goods or delivered Goods the subject of any other order from Buyer or Consumer.
- 5.2 If Buyer or Consumer fails to make a payment for the Goods in accordance with the terms and conditions of this Contract or commits any other breach of this contract, or commits an act of bankruptcy or if Buyer or Consumer being a company is the subject of a winding up petition or resolution or a receiver shall be appointed over Buyer's or Consumer's assets all sums due in respect of the Goods shall become payable immediately and Seller may in its absolute discretion and without prejudice to any other rights which it may have, exercise its rights pursuant to clause 3.3.

TERMS & CONDITIONS

Ownership of the intellectual property in the design and solutions (including but not limited to copyright in all drawings, sketches and specifications) produced by the Seller and provided as part of the Services shall remain at all times in and with the Seller.

Remedies and Liabilities

- 6.1 The entire liability of Seller to Buyer or Consumer arising out of this contract and all Goods or Services supplied or to be supplied hereunder shall be limited to repayment of the Price and shall not in any circumstance include any other direct or indirect loss, cost, damage, charge or expense suffered or incurred by Buyer. The seller shall not be liable for any loss based on delivery times quoted, due to circumstances that may arise that are outside of the sellers control. 62
- Seller shall not be liable for any loss, costs, damages, charges or expenses caused, directly or indirectly, by any delay in the delivery of the Goods or Services.
- 6.3 The statutory rights of Consumer under current Irish legislation remain unaffected.

Alteration of Order

7.1 Prior to delivery Buyer and Consumer have the right to alter the order. Any changes to the order will be deemed a cancellation of the original order. A revised order confirmation will be issued by Seller. Seller reserves the right to alter the Price as a result of any change to an order requested by Buyer and Consumer.

- 8.1 Faulty Goods: Goods that are faulty (for reasons other than damage in transit) must be inspected by Seller's local Area Sales Manager who will provide a return authorisation number to be included with Buyer or Consumer's debit note. Without these documents the return will be refused and returned to Buyer or Consumer with a charge made for carriage. Any Goods that are subsequently found not to be faulty will be returned to Buyer or Consumer, with no credit being issued and the carriage costs will be charged to Buyer or Consumer.
- 8.2 Goods Not Required: Any Goods purchased that are no longer required, incorrectly ordered or unwanted may be returned to Seller. On such occasions a handling charge of 15% plus the carriage to return the Goods will be applied. All Goods must be in resalable condition with the boxes undamaged and intact and be part of Seller's current catalogue offer. Any Goods not required must be inspected by the local Area Sales Manager who will provide a return authorisation number to be included with Buyer or Consumer's debit note.
- 8.3 Stock Cleanse: An annual stock cleanse is available to non-Consumer stockists. The value of the replacement order is a minimum of two for one. The following criteria must be adhered to:
- All Goods must be in box quantities.
- All Goods must be in our current catalogue.
- The stock cleanse cannot exceed 10% of that Buyer's branch turnover from the previous trading year.
- The stock cleanse must be authorised by the local Area Sales Manager, who will provide a return authorisation number for the Goods.
- The stock cleanse must be inspected by the local Area Sales Manager before the Goods are returned.

- Buyer is responsible for the return of the Goods along with any shipping costs. Collections are available and are chargeable. The local Area Sales Manager can provide costings for this service.
- Stock cleanse cannot be authorised between 1 November and 31 December of any trading year.
- Returns: Buyers and Consumers shall ensure that any Goods being returned are packed/wrapped sufficiently to prevent cartons being damaged. If Goods are damaged and not fit for resale, credit will not be issued for these Goods. Goods will be returned and a carriage charge to return will be applied.
- Short Delivery: Buyer or Consumer must notify Seller's Sales Office within 2 working days of receipt of delivery if there is a shortfall of Goods to invoice/delivery note. Requests received after 3 working days cannot be entertained

Terms Specific to the Services

- All calculations made by Seller are based on information provided by Buyer including any Buyer drawings and verbal information received. Seller takes no responsibility for the maintenance regime and only quarantees light levels at start of life. Seller's lighting designs are based on relevant lighting guides in conjunction with best practice.
- The Robus LDT files used to produce a design Service are specific to the Robus Luminaires included therein. A new lighting design must be produced should an alternative fitting be required. The optics of different fittings are rarely the same even if the lumen output is identical. Buyer acknowledges that using an alternate fitting without a design could render the scheme noncompliant with relevant lighting guides.
 - It is Buyer's responsibility to check emergency scheme and confirm with local building or fire control officer and ultimately obtain and required building owner approval. Any emergency calculations that have been made by Seller have been based on 0.5 lux for open areas and 1 lux for escape routes unless otherwise stated. Positioning of firefighting and call points is unknown and hence the design Service does not consider this requirement. The absence of an emergency scheme within the design does not indicate one is not required, rather that the brief has suggested that this is either already in existence or will be provided by another source.
- It is Buyer's responsibility to ensure that the lighting scheme or other design Service provided complies with all Buyer requirements before placing an order with Seller's sales team. Where schematic drawings have been provided by Buyer in either AutoCAD or PDF format, Seller will endeavour to ensure that the scale of the drawings are correct in Seller's designs but it remains Buyer's responsibility to ensure that any scaling indicated in our Services are correct and that any inaccuracies are brought to Seller's attention prior to placing an order.

10. Law

10.1 This Contract is subject to the law of the Republic of Ireland and the parties submit to the non-exclusive jurisdiction of the Irish Courts sitting in Dublin.

IP RATING AND BATHROOM ZONES

WHAT IS IP RATING?

The resistance offered by the fixture to the penetration of solids and liquids is indicated by the IP (Ingress Protection) rating. This is a two digit number, the first number identifies the degree of protection against the ingress of solids and the second number against liquids e.g. IP65 indicates total protection against dust and protection against low pressure jets of water

First Digit Protection against solids

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

Second Digit Protection against liquids

- 0 No protection
- 1 Protection against vertical water drops (e.g. condensation)
- 2 Protection against direct sprays of water, up to 15° from vertical
- 3 Protection against direct sprays of water, up to 60° 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 15–100cm
- 8 Protection against submersion

BATHROOM ZONES

Zone 0:

Is the area inside the bath or shower basin. A minimum rating of IPX7 is required (protection against immersion in water) and only SELV (max 12v AC) equipment may be used in this zone.

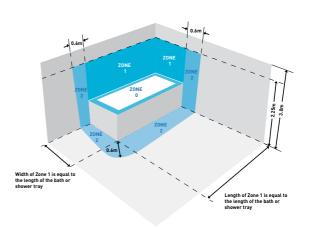
Zone 1:

Is the area directly above Zone 0 to a height of 2.25m above finished floor level or the top of the highest fixed water outlet, whichever is higher. A minimum of IPX4 is needed in this zone. If there is a possibility of water jets then IPX5 is required. 17th edition IEC regulations allow for the use of certain 240v electrical equipment in zones 1 and 2 if controlled by the appropriate RCD.

Zone 2:

Is the area 60cm external to zone 1 and to a height of 2.25m above fixed floor level or the top highest fixed water outlet, whichever is higher. A minimum of IPX4 is needed in this zone. If there is a possibility of water jets then IPX5 is required. 17th edition IEC regulations allow for the use of certain 240v electrical equipment in zones 1 and 2 if controlled by the appropriate RCD.

Zone 3 is no longer used. There is no minimum IP rating area external to zones 0, 1 and 2.



IK RATING

WHAT DOES IK RATING MEAN?

The IK rating of a fixture indicates the level of impact protection the fixture has. This is a two digit rating after the letters 'IK' that identifies the degree of protection against harsh impacts to the body of a fixture. The higher the number equates to a higher level of protection.

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 57mm above impacted surface.
IK02	Protected against 0.2 joules impact. Equivalent to impact of 0.25 kg mass dropped from 80mm above impacted surface.
IK03	Protected against 0.35 joules impact. Equivalent to impact of 0.25 kg mass dropped from 140mm above impacted surface.
IK04	Protected against 0.5 joules impact. Equivalent to impact of 0.25 kg mass dropped from 205mm above impacted surface.
IK05	Protected against 0.7 joules impact. Equivalent to impact of 0.25 kg mass dropped from 285mm above impacted surface.
IK06	Protected against 1 joules impact. Equivalent to impact of 0.25 kg mass dropped from 405mm above impacted surface.
IK07	Protected against 2 joules impact. Equivalent to impact of 0.5 kg mass dropped from 400mm above impacted surface.
IK08	Protected against 5 joules impact. Equivalent to impact of 5 kg mass dropped from 100mm above impacted surface.
IK09	Protected against 10 joules impact. Equivalent to impact of 5 kg mass dropped from 200mm above impacted surface.
IK10	Protected against 20 joules impact. Equivalent to impact of 5 kg mass dropped from 405mm above impacted surface.

LAMP TYPES

SYMBOL	TYPE	LUMINOUS EFFICACY (lm/w)	LUMEN OUTPUT (lm)	CCT (k)	CRI	AVERAGE LIFE (Hours)	CAP TYPE
gall"	Fluorescent U shape 2 pin	50 - 80	250 – 900	4000	56 – 90	6000	G23/-2G7
***************************************	Fluorescent Double U shape	40 - 70	600 – 1800	4000	56 – 90	8000	G24d/-q
	Fluorescent U shape 4 pin		600 – 2900	4000	56 – 90	8000	2G11
*4	3 U Dulux Fluorescent	40 - 76	300 – 3200	4000	65 – 90	8000	G24d/-q
	Dichroic	12 – 19	240 - 975	3000	100	3000	G5.3
	CFL	40 - 65	400 – 1500	3000	65 – 90	8000	E27/B22
A	Fluorescent	65 – 71	1050 – 2700	3500	65 – 90	8000	GR10q
	Fluorescent tube	66 – 100	430 – 3150	3000	65 – 90	5000 – 1200	G5/G13
	G9 Capsule lamp	8 – 9	190 – 370	2700	100	1500	G9
	Halogen lamp	15 – 29	350 – 1450	3000	100	3000	G4/G6.35
	Halogen linear lamp	16 – 20	3520 – 9900	3000	100	2000	R7S
**	AR111	10 – 12	3000	3000	100	2000	G53
Ä	GU10 lamp	7 – 8	250 – 600	2700	100	2000	GU10
	MBF	45 – 50	2000 - 5600	2000 – 3500	40 – 49	8000	E27
	HPS	70 – 130	3500 - 130,000	2000	25	12,000	E27/E40
	Incandescent	6 – 12	150 – 3150	2700	100	1000	E27/B22

LAMP TYPES

SYMBOL	ТҮРЕ	LUMINOUS EFFICACY (lm/w)	LUMEN OUTPUT (lm)	CCT (k)	CRI	AVERAGE LIFE (Hours)	CAP TYPE
	Reflector incandescent	6 –12	200 – 500	2700	100	1000	E27/B22
	Quartz metal halide 1 end	60 - 80	3400 – 1350	4200	65 - 85	6000	G12
	Quartz metal halide 2 end	60 - 80	5000 – 11000	4200	65 - 85	6000	R7S
	Metal Halide	60 - 80	3400 - 13,500	3000	65 – 85	9000	G12
<u>•</u>	CFL GX53	28	260	2700 – 4000	80 - 90	10,000	GX53
	CFL GU10	31	350	2700 – 4000	80 - 90	10,000	GU10 CFL
LED	LED	80 – 150+	10 – 10,000	2700 – 6500	65 - 95	50,000	LED

Luminance = amount of light emitted from a particular area (cd/m²)

Luminous Flux = total energy emitted by a light source in the visible spectrum (lm)

Luminous Efficacy = amount of light emitted per unit of energy consumed (lm/w)

CCT - Correlated Colour Temperature

of white light (warm 3,000K, cool 4,000K of COMMISSION REGULATION (EU) No etc) by comparing to a black body at a certain temperature (K)

CRI - Colour Rendering Index = a measure to describe the ability of a light source to reproduce colours accurately with reference to an ideal source

Note: LED lamp/luminaire lifetime is = a measure to describe the appearance based on the definition from Annex II 1194/2012

PART L1 AND L2

PART L1 AND L2 REQUIREMENTS - APRIL 2014

The April 2014 lighting compliance guide provides guidance on the specification of fixed internal and external lighting for new and existing dwellings to meet relevant energy efficiency requirements in the Building Regulations.

PART L1

L1 PART L2

Limits remain unchanged (>45lm/cctW and >400lm).

Light fittings LESS THAN 5W do not count towards the total number of light fittings so performance is irrelevant. This would apply to lamps less than 5W. Limits increased (>60lm/cctW).

This is MINIMUM 60lm/cctW. Displaying lighting products should be MINIMUM 22lm/cctW

DOMESTIC BUILDING SERVICES COMPLIANCE

Recommended minimum standards for fixed internal and external lighting

Lighting	New and existing systems	Supplementary Information
internal lighting provide low ener or lighting units three per four or main dwelling s infrequently acc such as cupboar b. Low energy ligh with luminous e lumens per circ greater than 400 c. Lighting fittings than 5 circuit-we	a. In the areas affected by the building work, provide low energy light fittings (fixed lights or lighting units) that number not less than three per four of all the light fittings in the main dwelling spaces of those areas (excluding infrequently accessed spaces used for storage, such as cupboards and wardrobes). b. Low energy lighting fittings should have lamps with luminous efficacy greater than 45 lamp lumens per circuit-watt and a total output greater than 400 lamp lumens. c. Lighting fittings whose supplied power is less than 5 circuit-watts are excluded from the overall count of the total number of light fittings.	Lighting fittings may be either: • dedicated fittings which will have separate control gear and will take only low energy lamps (e.g. pin based fluorescent or compact fluorescent lamps); or • standard fittings supplied with low energy lamps with integrated control gear (e.g. bayonet or Edison screw base compact fluorescent lamps). Light fittings with GLS tungsten filament lamps or tungsten halogen lamps would not meet the standard. The Energy Saving Trust publication GIL20,
Fixed internal lighting	Where fixed external lighting is installed, provide light fittings with the following characteristics: a. Either: i. lamp capacity not greater than 100 lamp-watts per light fitting; and iii. all lamps automatically controlled so as to switch off after the area lit by the fitting becomes unoccupied; and iii. all lamps automatically controlled so as to switch off when daylight is sufficient. b. Or: i. lamp efficacy greater tan 45 lumens per circuit-watt; and iii. all lamps automatically controlled so as to switch off when daylight is sufficient; and iii. ilight fittings controllable manually by occupants.	Low energy domestic lighting, gives guidance on identifying suitable locations for fixed energy efficient lighting. A single switch should normally operate no more than six light-fittings with a maximum total load of 100 circuit-watts.

PART L1 AND L2

NON - DOMESTIC BUILDING SERVICES COMPLIANCE

There are two alternative approaches, applicable both to systems in new buildings and to replacement systems in existing buildings. The guidance applies to a) general interior lighting and b) display lighting.

Recommended minimum lighting efficacy with controls in new and existing buildings

		Initial luminaire lumens/circuit-watt
General lighting in office, industrial and storage spaces		60
Controls	Control factor	Reduced luminaire lumens/circuit-watt
a daylit space with photo-switching with or without override	0.90	54
b daylit space with photo-switching and dimming with or without override	0.85	51
c unoccupied space with auto on and off	0.90	54
d unoccupied space with manual on and auto off	0.85	51
e space not daylit, dimmed for constant illuminance	0.90	54
a + c	0.80	48
a + d	0.75	45
b + c	0.75	45
b + d	0.70	42
e + c	0.80	48
e + d	0.75	45
General lighting in other types of space		The average initial efficacy should be not less than 60 lamp lumens per circuit-watt
Display lighting		The average initial efficacy should be not less than 22 lamp lumens per circuit-watt

Recommended minimum standards for metering of general and display lighting in new and existing buildings

	Standard
Metering for general or display lighting	a. kWh meters on dedicated lighting circuits in the electrical distribution; or b. local power meter copuled to or integrated in the lighting controllers of a lighting or building management system; or c. a lighting management system that can calculate the consumed energy and make this information available to a building management system or in an exportable file format. (This could involve logging the hours run and the dimming level, and relating this to the installed load).

Note: The LENI (Lighting Energy Numerical Indicator) method is an alternative to complying with the efficacy standards set out in the tables above. The LENI method calculates the performance of lighting in terms of energy per square metre per year (kWh/m²/year), based on BS EN 15193:2007, Energy performance of buildings.

PART L1 AND L2

KEY TERMS

Circuit-watt means the power consumed in lighting circuits by lamps and, where applicable, their associated control gear (including transformers and drivers) and power factor correction equipment.

Light fitting means a fixed light or lighting unit that can comprise one or more lamps and lampholders, control gear and appropriate housing. The control gear may be integrated in the lamp or located elsewhere in or near to the fixed light.

Fixed external lighting means lighting fixed to an external surface of the dwelling supplied from the occupier's electrical system. It excludes lighting in common areas of blocks of flats and in other communal accessways.

Office area means a space that involves predominantly desk-based tasks – e.g. a classroom, seminar or conference room.

Daylit space means any space:

- a. Within 6m of a window wall, provided that the glazing area is at least 20% of the internal area of the window wall
- b. Below rooflights, provided that the glazing area is at least 10% of the floor area

The normal transmittance of the glazing should be at least 70%; if the light transmittance is below 70%, the glazing area should be increased proportionately for the space to be defined as daylit.

Local manual switching means that the distance on plan from any local switch to the luminaire it controls should generally be not more than six metres, or twice the height of the light fitting above the floor if this is greater. Where the space is a daylit space served by side windows, the perimeter row of lighting should in general by separately switched.

Photoelectric control is a type of control which switches or dims lighting in response to the amount of incoming daylight.

Presence detection is a type of control which switches the lighting on when someone enters a space, and switches it off, or dims it down, after the space becomes unoccupied.

Absence detection is a type of control which switches the lighting off, or dims it down, after the space becomes unoccupied, but where switching on is done manually.

Lamp lumens means the sum of the average initial (100 hour) lumen output of all the lams in the luminaire

Lamp lumens per circuit-watt is the total lamp lumens summed for all luminaires in the relevant areas of the building, divided by the total circuitwatts for all the luminaires.

LOR is the light output ratio of the luminaire, which means the ratio of the total light output of the luminaire under stated practical conditions to that of the lamp or lamps contained in the luminaire under reference conditions.

Luminaire lumens per circuit-watt is the (lamp lumens x LOR) summed for all luminaires in the relevant areas of the building, divided by the total circuit-watts for all the luminaires.



HOW TO USE THIS CATALOGUE

SYMBOLS GUIDE



Indicates x years warranty



Lumens per Watt



Energy Saving



Fire Rated Symbol



Dimmable



LiFePO₄ Battery



Self Test

Zone 1

Bathroom Zone 1

Suitable for use in indicated bathroom zone*

Zone 2

Bathroom Zone 2

Suitable for use in indicated bathroom zone*

350°

Rotation Angle



Adjustment Angle (tilt)



High Frequency Electronic Control Gear included



Photometrics available



Ingress Protection against dust and water (see technical information)



Operating Voltage – 12V AC



Operating Voltage - 220V / 230V - 12V

Step down transformer included



Operating Voltage - 220V / 240V

COLOUR APPEARANCE

Summer Sunlight (Northern Hemisphere)	5,500	Daylight White
	5,000	Cool White
	4,500	
	4,000	Neutral White
	3,500	
	3,000	
	2,500	Warm White
Candle	2,000	
	1,500	

HOW TO USE THIS CATALOGUE

12V Operating Voltage - 12V DC

Pull Switch

✓ — Integral Switch

Safety Class I

Electrically insulated and earthed. In the event of a basic insulation failure, exposed metal parts that could become live are protected by the earth

Safety Class II
Live parts are equipped with additional insulation protection such as reinforced or double insulation and do not require an earth

Safety Class III
Safety extra low voltage (SELV), requires no additional protection less than 24V AC or 55V DC

Safety Isolating Transformer

Compliance with Part L2 of Building Regulations

Compliance with Part L1 of Building Regulations

SWIFT

COB Chip on Board

DOB Driver on Board

LEDCHROIC™

COLOUR ABBREVIATIONS

-01 White

-02 Brass

-03 Chrome

-04 Black -07 Blue

-09 Yellow

-10 Matte Black

-11 Matte White

-13 Brushed Chrome

-14 Antique Brass

-15 Satin Silver

-23 Aluminium

-24 Grey

-25 Dark Grey

-CW Cool White LEDs

-WW Warm White I FDs

-RGB Colour Changing LEDs

INDICES BY PRODUCT NAME

ACORN SINGLE CIRCUIT SPOTS &	292	EWOK LED GROUND LIGHTS	244
KITS		EXIT BOX	334
ALEXANDER LED BATTEN	88	FALCON LED WALL LIGHT	134
APEX LED WALL LIGHT	230	FILAMENT CONNECT	36
ASYMMETRIC LED GROUND LIGHT	243	FINCH LED TWINSPOT	340
ATMOS LED PANEL	70, 76	GLOBE CEILING LIGHT	316
BARON LED CCT3 SELECTABLE BATTEN	86	GLS CONNECT	30
BEACON BOLLARD	236	GOLF LED	190
BLADE LED	338	GOLF LED CCT3 SELECTABLE	192
BULKHEADS	330	GOLF LED RETROFIT TRAY	194
CAESAR LED BATTEN	90	GOLF SLIM LED	188
CAMERA CONNECT	42	GRANADA UGR≼19 LED	174
CAMERA CONNECT IP65	43	GU10 CONNECT	32
CANON WALL LIGHTS	324	HARBOUR LED CORROSION PROOF	112
CAVAN LED	164	HAWK LED	200
CAVAN LED CCT3 SELECTABLE	162	HELM HAND DRYER	326
CAVAN LED CCT3 SELECTABLE, TILT	163	HILUME FLOOD	210
CHAMPION LED FLOOD LIGHT	122	INIS GU10 SPIKE/WALL LIGHT WITH ADJUSTABLE TAPERED HEAD	249
COMMODORE LED CABINET LIGHT	306	JUPITER LED BOLLARD	234
COMPACT LED	196, 197	JUPITER LED WALL LIGHT	232
CORK GU10 SPIKE C/W ADJUSTABLE SLOPED HEAD	248	KERRY LED LANTERN	219
DELPHI LED LAMPS	346	KINGSTON LED LOW BAY	132
DESMOND LED	337	LAZER LED VAPOUR PROOF	120
DEXTER LED	176	LEE GARDEN SPIKE	247
DIAMOND LED LAMPS	344	LUNAR LED WALL LIGHT	229
DINGLE LED LANTERN	218	MAINS VOLTAGE TRACK	301
DIVA LED OVER MIRROR LIGHT	320	MICROWAVE DAYLIGHT HARVEST SENSOR	362
DOOR SENSOR CONNECT	40	MODUM HUMANITAS ZIGBEE	56
DOORBELL CONNECT & CHIME	44	MONOLUME & BILUME ACTIVATE	
DUET 2IN1 LED SPIKE AND WALL MOUNT FITTING	245	LED WALL LIGHTS	220
DYNAMO LED	336	MORPH LED CCT3 SELECTABLE	170
EAGLE LED	198	OHIO LED BULKHEAD	212
EBLANA EMERGENCY LED BULK-	332	ORIENT LED COMMERCIAL BOLLARD	238
HEAD	332	ORION LED WALL LIGHT	235
ECLIPSE LED WALL LIGHT	225	ORION LED WALL LIGHT	233
ELEGANCE LED	205	OUTDOOR ACCESSORIES	250
ELEVATE PANEL	82	OWL HUMANITAS	61
ESTONE SHAVER LIGHT	322	OYSTER LED	204

INDICES BY PRODUCT NAME

PETITE SINGLE CIRCUIT SPOTS & KITS	300	TOUCAN LED BATTEN	84
PIR CONNECT	41	TRALEE WALL LIGHT	224
PLUG CONNECT	39	TRAM LED TRACK PROJECTOR	294
PRISMOID LED LINEAR HI-RACK	128	TREK LED TRACK PROJECTOR	298
PROTON EXTERNAL PIR	355,356,358	TRINITY 3IN1 LED SPIKE AND WALL MOUNT FITTING	246
PROTON INTERNAL PIR	350, 351, 353, 354	TRIUMPH ACTIVATE LED	146
PULSE CONNECT	26	TROY LED TRACK PROJECTOR	296
PULSE LED FLEXI-STRIP	286	TWILIGHT LED WALL LIGHT	226
RADAR MICROWAVE SENSOR	360	ULTIMUM CONNECT	28
RAMADA LED FIRE RATED	154	ULTIMUM LED FIRE RATED	156
REMY LED FLOOD LIGHT	208	UNIVERSAL 360° PIR	352
REX EXIT BOX	335	VEGA LED BULKHEAD	214
RIDA MAINS VOLTAGE	181	VEGAS CONNECT	24
ROBIN SHOWER DOWNLIGHTS	318	VEGAS LED FLEXI-STRIP	254
ROCKSTAR LED WALL WASHER	184	VIRTUE LED DOWNLIGHT	172
ROYAL LED CABINET DOWNLIGHT	307	VITA CIRCULAR LED KIT	240
RX150D CONNECT	37	VULCAN LED CORROSION PROOF	96
SALLY MAINS VOLTAGE	182	WHITESTAR BULKHEAD	216
SCHOLAR HUMANITAS	60	WILSON LED WALL WASHER	180
SCHOLAR LED BATTEN	92	ZAK MAINS VOLTAGE	183
SONIC LED HIGHBAY	124	ZEBO LED WALL LIGHT	222
SPACE HUMANITAS	58	ZERO LED GROUND LIGHT	242
SPACE UGR<19 LED PANEL	74, 76		
SPEAR CCT2 LED STRIPLIGHTS	308		
SPIRE HF STRIPLIGHTS	312		
STARLING PREMIUM FIRE RATED	143		
STARLING SHOWER DOWNLIGHTS	319		
STELLAR UGR<19 LED INDIRECT PANEL	80		
STREEX LED STREET LIGHT	136		
STUDIO LED CCT3 SELECTABLE	168		
SULTAN LED CORROSION PROOF	104,110		
SUN CIRCULAR LED PANEL	178		
SWISS EXIT BLADE	339		
SWORD HF STRIPLIGHTS	310		
TAYLOR LED CCT3 SELECTABLE	166		
TIBO LED BRICK LIGHT	241		
TOGA LED BULKHEAD	217		
TOILET ALARM	325		

INDICES BY PRODUCT CODE

CCLIP	339	L2501G2W	368	R12WLEDT	250	R2IN13W	245
RC8CCT3-01	162	L2503G2W	368	R1350HSD-01	326	R2T-01	301
RLA400DT	154	L4001G2W	368	R1350HSD-15	326	R2T-01/04	294
L10001G2W	368	L4002G2W	368	R135-13	224	R2T-04	301
L200110	236	LFT416	311	R150LED-01	191	R2T-15	301
L2502G2W	368	LFT420	311	R150LED3SD-01	191	R2WLEDNME-01	336
R100LEDES-01	191	LFT430	311	R150LEDC30N-01	174	R300LEDC40N-01	174
R150LEDCCT3E-01	193	LFT46	311	R150LEDC40N-01	174	R360PIR-01	98, 100, 116
R208PS-03	181	LFT48	311	R150LEDCCT3-01	193	R3EMPK4-PSU	
R360N-01	354	LFT513	313	R150LEDCCT3E-01S	193	R3IN13W	341 246
R3LED5S-01	240	LFT518	313	R150LEDCCT3E-013	193	R3LED10S-01	240
R5082TW-15	249	LFT524	313	R150LEDE-01	191	R3LED105-01	240
RAM40306060X-01	71	LFT58	313	R150LEDE-01 R150LEDE3SD-01	191		
RBRGZ10	372	LS50GU-04	247			R3LED10SWW-01	240
RBRGZ10SC	372	LSTR16W	310	R150LEDES-01 R150LEDS-01	191 191	R3LED5S-07	240
RCONIP68-04	128	LSTR20W	310			R3T-01	301
				R162TRIM-03	190	R3T-01/04	294
RDA0830S-03	321	LSTR30W	310	R170LEDC30N-01	174	R3T-04	301
RDLHRV-HMW32S	128	LSTR6W	310	R170LEDC40N-01	174	R3T-15	301
REEL02440E-01	199	LSTR8W	310	R180-01	355	R4WLEDBH-01	217
REEL02440E-01SEN	199	LT513W	312, 313	R180-04	355	R4WLEDBHE-01	217
RETM01530	202	LT518W	312, 313	R1825265TRIM-01	170	R5082T-04	249
REXS122-23	289	LT524W	312, 313	R18ASGL	243	R5082T-15	249
RKN12050DA-01E	133	LT58W	312	R1T-01	301	R5082TW-04	249
RPDL40130	128	PRPIRMW-HIM31S	124, 128,	R1T-01/04	294	R5088S-04	248
RPDL90	128	R075LED-01	191	R1T-04	301	R5088S-15	248
RPDRB	128	R075LEDE-01	191	R1T-13	301	R5MCCT1-WIFI	26
RRC04445-01	184	R075LEDS-01	191	R1T-15	301	R5MRGB-WIFI	26
RS806GZ3-13	300	R100LED-01	191	R201PS-01	181	R5MSIK-CCT1	27
RSE20040S-25	137	R100LEDCCT3-01	193	R201PS-03	181	R5MSIK-CW	286
RSF201-03	143	R100LEDCCT3E-01	193	R201PS-13	181	R5MSIK-RGB	286
RSF20165-01	145	R100LEDCCT3E-01SEN		R201SCN-01	183	R5MSIK-RGBW	27
RSF208-01	144	R100LEDCCT3S-01	193	R201SCN-03	183	R5MSIK-WW	286
RSF208-03	144	R100LEDE-01	191	R201SCN-13	183	R60120SMKFB-01	72, 76
RSW44-P	128	R100LEDRET	194	R208PS-01	181	R6060SMKFB-01	70, 74, 76
RTY1040-01	296	R100LEDRETE	194	R208PS-13	181	R60BHPC-01	216
RVUF966FT-24	96	R100LEDRETESEN	194	R208SCN-01	183	R60BHPC-04	216
SCGZ1050	372	R100LEDS-01	191	R208SCN-03	183	R60BHPIR-01	216
TLSC	373	R100SB	316	R208SCN-13	183	R60BHPIR-04	216
3000K GEAR TRAY	202	R10FSA-01	208	R21LEDS-01	242	R60SB	316
CCLIP	339, 373	R10LED240S-01	244	R225LEDC30N-01	174	R6LED240S-01	244
HED2040-D	72, 4,80,	R10LED240S-07	244	R225LEDC40N-01	174	R6LED240S-07	244
HED2040-D	70	R120LEDC30N-01	174	R235-13	224	R888GZ-01	292
HRC-11	128,132	R120LEDC40N-01	174	R24WLED40EU-01	204	R888GZ-13	292
L20065	236	R1230SMKFB-01	72,76	R282TRIM-03	190, 192	R888GZ3-01	292

INDICES BY PRODUCT CODE

R888GZ3-13	292	RATR6P03038-01	148	RC8WDLDCW-01	164	RCXR3	334
R8EMLED-01	334	RATR6P03038NC-01	149	RC8WDLDWW-01	164	RCXU2	334
R8EMLEDD-01	334	RATR6P04038-01	149	RC9W923-01	166	RDA0830S-01	321
R8MLED-01	332	RATR6P04038NC-01	149	RCA244006-01	90	RDA1530-03	320
R8MLEDDE	332	RATR8P03038-01	148	RCA244012-01	90	RDD1P5C-01	337
R8MLEDDEXLR	332	RATRLENS38	148	RCA244012E-01	91	RDD1P5Q-01	337
R8MLEDDEXU	332	RATRLENS60	148, 150	RCA484012-01	90	RDE6P030D-01	178
R8MLEDLST-01	332	RATRTRIM-02	148	RCA484012E-01	91	RDE6P040D-01	178
R8MLEDRSB-01	332	RATRTRIM-03	148	RCA484015-01	90	RDETRIM-13	178
R8MLEDTS-01	332	RATRTRIM-10	148	RCA484015E-01	91	RDETRIM-15	178
R8MULK-15	330	RATRTRIM-11	148	RCA604018-01	90	RDH4P530	346
R8MUSTLED-01	330	RATRTRIM-13	148	RCA804015-01	90	RDH4P540	346
RABL0153038-25	220	RATRTRIM-14	148	RCA804015E-01	91	RDH5P027DU	346
RAE204006-01	88	RATT6P03038-01	150	RCA964018-01	90	RDH5P030DU	346
RAE244012-01	88	RATT6P04038-01	150	RCCHIME-01	44	RDH5P040DU	346
RAE244012E-01	89	RATTTRIM-13	150	RCCI1080-01	42	RDLHRV-HMW32S	124, 132
RAE404012-01	88	RAX4530-25	230	RCC01080-01	43	RDLHRV-HMW32S	362
RAE404012E-01	89	RAX4540-25	230	RCD1080-04	44	RDM4P530	344
RAE404015-01	88	RBF230/4/M3WC	150	RCD2P530-01	306	RDM4P540	344
RAE404015E-01	89	RBL4P0E-15	338	RCD2P530-13	306	RDM5P030DU	344
RAE484018-01	88	RBN2006CCT3-01	86	RCD2P540-01	306	RDM5P040DU	344
RAE484018E-01	89	RBN4012CCT3-01	86	RCD2P540-13	306	RDN00740-01	218
RAE604015-01	88	RBN6015CCT3-01	86	RCDS-01	40	RDN00740-04	218
RAE604015E-01	89	RBN6018CCT3-01	86	RCFC522B15	36	RDN00740PIR-01	218
RAE804018-01	88	RBULKLEG	332	RCFC522E14	36	RDN00740PIR-04	218
RAE804018E-01	89	RC-01	302	RCFG722B22	36	RDPTA-01	325
RAESUS-2W	88	RC-01/04	294	RCFG722E27	36	REA1340-01	205
RAG20	373	RC-04	302	RCG8CXB22	30	REA1340S-01	205
RAG25	373	RC100LEDN-01	196	RCG8CXE27	30	REA1840-01	205
RAM40306060-01	70	RC100LEDNE-01	196	RCGU5RGBCX	32	REA1840S-01	205
RAM40403012-01	72	RC-13	302	RCGUSCX	32	REEL02440-01	199
RAM40406060-01	70	RC-15	302	RCM10040-04	122	REEL02440-01SEN	199
RAM40406060X-01	71	RC162D0-01	197	RCM15040-04	122	REEM-01	202
RAM40506060-01	70	RC162DP-01	197	RCM20040-04	122	REEM-01 EAGLE Shell	202
RAM40FFDVR	70	RC282DEPO-01	197	RCM3040-04	122	REEM01040-01	199
RAM60406012-01	72	RC282DO-01	197	RCM5040-04	122	REEM01040-01SEN	199
RAML7P53038-25	220	RC282DP-01	197	RCONIP68-04	373	REEM01040E-01	199
RAMRC	72, 74, 76	RC72TRIM-01	166	RCP13UK-01	39	REEM01040E-01SEN	199
RAMSST	70	RC72TRIM-13	166	RCPIR-01	41	REEM01540-01	199
RAMSUS-3W	72,76	RC7SQTRIM-01	166	RCRX150D	37	REEM01540-01SEN	199
RAMSUS-4W	70, 74, 76	RC7SQTRIM-13	166	RCT6CCT3-01	163	REEM01540E-01	199
RAMSUS-6W	72,76	RC7TRIMX-04	166	RCT6CCT3-13	163	REEM01540E-01SEN	199
RATR0113060-01	148	RC7W723-01	166	RCXD2	334	REEMTRIM-03	198
RATR0114060-01	148	RC8CCT3-13	162	RCXL3	334	REEMTRIM-13	198

INDICES BY PRODUCT CODE

REES7P040-01	199	RHA58405FT	116	RHL5040P-04	210	RLE-15	302
REES7P040E-01	199	RHA58405FT-24	112	RHV0830-01	212	RLEDSTR10X-01	308
REESTRIM-03	198	RHA70406FT	116	RHV1230-01	212	RLEDSTR14X-01	308
REESTRIM-13	198	RHA70406FT-24	112	RHV1240-01	212	RLEDSTR3X-01	308
REETRIM-03	198	RHA80405FT	116	RHZETM13	61	RLEDSTR4X-01	308
REETRIM-13	198	RHA80405FT-24	112	RHZMMEN-01	56	RLEDSTR8X-01	308
REL0630-25	225	RHC0830-01	212	RHZSC4515-01	60	RLN7302W-25	229
REL1230-25	225	RHC1230-01	212	RHZSP303012-01	58	RLN7303W-25	229
RETM01530	198	RHC1240-01	212	RHZSP306060-01	58	RLSTR250LEAD	308
RETM01540C90	202	RHKLDP40-01	201	RJU0730-25	232	RLZ224012HL-24	120
REV40403012T-01	82	RHKLDP40E-01	201	RJU073050-25	234	RLZ294015HL-24	120
REX4P0-01	335	RHKM-01	202	RJU073080-25	234	RLZ444012HL-24	120
REX4P0LST-01	335	RHKM-01 HAWK Shell	202	RJU0730DG-25	232	RM105DN	366
REXA172-23	289	RHKM01040-01	201	RKC2S	375	RMCSPIKE-04	208
REXR122-23	289	RHKM01040-01SEN	201	RKC3S	375	RMP20WCCT3DL-01	170
REXR152-23	288	RHKM01040E-01	201	RKE00740-01	219	RMP30WCCT3DL-01	170
REXS082-23	288	RHKM01040E-01SEN	201	RKE00740-04	219	RMP50WCCT3DL-01	170
REXSW071-23	289	RHKM01540-01	201	RKE00740PIR-01	219	RMPSMK-01	170
RFA03555-04	134	RHKM01540-01SEN	201	RKE00740PIR-04	219	RON0730-25	233
RFA03555DH-04	134	RHKM01540E-01	201	RKN12050DA-01	132	RON073050-25	235
RFA05055-04	134	RHKM01540E-01SEN	201	RKN12050DP-01	133	RON073080-25	235
RFA05055DH-04	134	RHKMCOLL-01	200	RKN15050DA-01	132	ROR204063	238
RFA05055DHX-04	134	RHKMCR-04	200	RKN15050DA-01E	133	ROR204098	238
RFA05055X-04	134	RHKMCR-24	200	RKN7050DA-01	132	RPBRKW-01	358
RFN00560I20-01	340	RHKMEY-04	200	RKN7050DA-01E	133	RPD10050DA-23	128
RFSB-04	208	RHKMTRIM-04	200	RKNL60	132	RPD12050DA-23	128
RG9125P-03	324	RHKMTRIM-24	200	RKNL90	132	RPD15050DA-23	128
RG9225P-03	324	RHKMTRIM-24	202	RKNLB-01	132	RPD18050DA-23	128
RG9225SP-03	324	RHL10030-04	210	RKNOPL	132	RPD20050DA-23	128
RGA2040-01	176	RHL10040-04	210	RKS18686-01	38	RPD24050DA-23	128
RGA2840-01	176	RHL1030-04	210	RKS18686-15	38	RPD30050DA-23	128
RHA10402FT	116	RHL1030P-04	210	RKS28686-01	38	RPD40050DA-23	128
RHA10402FT-24	112	RHL1040-04	210	RKS28686-15	38	RPD60050DA-23	128
RHA20402FT	116	RHL1040P-04	210	RL-01	302	RPIRMW-HIM31S	363
RHA20402FT-24	112	RHL2030-04	210	RL-01/04	294	RPLBRK-01	70, 72, 74
RHA20404FT	116	RHL2030P-04	210	RL-04	302	RPR180PIR-01	356
RHA20404FT-24	112	RHL2040-04	210	RL-15	302	RPR180PIR-04	356
RHA28405FT	116	RHL2040P-04	210	RLA200DTG-01	364	RPR180PIRW-01	358
RHA28405FT-24	112	RHL3030-04	210	RLA400DT	148	RPR360PIRF-01	351
RHA2WEMPK-PSU	116	RHL3030P-04	210	RLA400DT	156	RPR360PIRR-01	350
RHA2WEMST-PSU	116	RHL3040-04	210	RLA400DT-01	364	RPRBRK-01	356
RHA34406FT	116	RHL3040P-04	210	RLE-01	302	RPRBRK-04	356
RHA34406FT-24	112	RHL5030-04	210	RLE-01/04	294	RPUPIR-01	287
RHA40404FT	116	RHL5030P-04	210	RLE-04	302	RR360-01	353
RHA40404FT-24	112	RHL5040-04	210	RLE-13	302	RRA083060-01	154

INDICES BY PRODUCT CODE

RRA084060-01	154	RS806GZ3-01	300	RSNWG-S	124	DTM2E20_01	295
RRATRIM-13	154	RS806GZ3-13	300	RSP30406060UGR-01	74	RTM3530-01 RTM3530-04	295
RRC03645-01	184	RSC504012-01	92	RSP30506060UGR-01	74	RTM3540-01	295
RRD360MW-01	124, 132	RSC504012E-01	92	RSS1P5-01	339	RTM3540-04	295
RRD360MW-01	360	RSC604015-01	92	RSS1P5D-01	339	RTW0130RG-24	228
RRE1030-04	209	RSC604015E-01	92	RSSD	339	RTW0130SQ-24	226
RRE1030P-04	209	RSD12CCT3M-01	168	RSSLR	339	RTW0230C-24	227
RRE1040-01	209	RSD12TRIM-04	168	RSSRSB	339	RTW0230C-24 RTW0330C-24	227
RRE1040-04	209	RSD12TRIM-04 RSD12TRIM-13	168	RSUDMB	106	RTW0330C-24 RTW0330RG-24	228
RRE1040P-01	207	RSD18CCT3M-01	168	RSUF242FT-09	104, 110	RTW0335R9-24	228
RRE1040P-04	207	RSD18CC13M-01	168	RSUF242FTE-09	111	RTY1030-01	296
RRE2030-04	209		168				
RRE2040-01	209	RSD18TRIM-13 RSD24CCT3M-01	168	RSUF244FT-09	104, 110 106	RTY1030-04	296
RRE2040-01 RRE2040-04	209		168	RSUF244FT-24		RTY1040-04	296
		RSD24TRIM-04		RSUF244FT-24	104	RU360-01	352
RRE2040P-01	209	RSD24TRIM-13	168	RSUF244FTE-09	111	RUL0530-01	156
RRE2040P-04	209	RSD6CCT3M-01	168	RSUF244FTE-24	107	RUL0540-01	156
RRE3030-04	209	RSD6TRIM-04	168	RSUF405FT-24	106	RUL05X0-01	156
RRE3040-01	209	RSD6TRIM-13	168	RSUF405FT-24	104	RUL070WIFI-01	28
RRE3040-04	209	RSE12040S-25	136	RSUF405FTE-24	107	RUL0730-01	156
RRE3040P-01	209	RSE15040S-25	136	RSUF484FT-24	104, 106	RUL0740-01	156
RRE3040P-04	209	RSE24040S-25	136	RSUF484FTE-24	107	RUL07X0-01	156
RRE5030-04	209	RSE3540S-25	136	RSUF486FT-24	106	RULTRIM-03	28, 156
RRE5040-01	209	RSE6040S-25	136	RSUF486FT-24	104	RULTRIM-10	28, 156
RRE5040-04	209	RSE9040S-25	136	RSUF486FTE-24	107	RULTRIM-13	28, 156
RRF10	374	RSE-PC	136	RSUF805FT-24	104	RVA10012IP67-PSU	274
RS100LEDCCT3-01	188	RSF201-01	143	RSUF805FTE-24	107	RVA10012-PSU	272
RS100LEDCCT3E-01	188	RSF201-13	143	RSUF966FT-24	104, 106	RVA10024IP67-PSU	274
RS100LEDCCT3ES-01	188	RSF20165-01	319	RSUF966FTE-24	107	RVA10024-PSU	272
RS100LEDCCT3S-01	188	RSF20165-03	319	RSW44-P	367	RVA12RGBW2030-30	264
RS10165-01	318	RSF20165-03	145	RT-01	302	RVA12RGBW2030-40	264
RS10165-03	318	RSF20165-13	319	RT-01/04	294	RVA12RGBW6710-30	264
RS10165-13	318	RSF20165-13	145	RT-04	302	RVA12RGBW6710-40	264
RS10165GZ-01	318	RSF208-13	144	RT-15	302	RVA14RGB2050	262
RS10165GZ-03	318	RSH7LED-01	325	RTA-01	302	RVA14RGB6730	262
RS150LEDCCT3-01	188	RSH7LED-01	322	RTA-04	302	RVA15024-PSU	272
RS150LEDCCT3E-01	188	RSH7LED-03	322	RTA-15	302	RVA1512-PSU	272
RS201E-01	182	RSL28406060-01	80	RTC184006-01	84	RVA1524-PSU	272
RS201E-02	182	RSLTR1000LEAD	308	RTC364012-01	84	RVA18012-PSU	272
RS201E-03	182	RSLTR500LEAD	308	RTC454015-01	84	RVA192CCT22050	266
RS201E-13	182	RSN10050DASN-04	124	RTED/4/TP60/240WC	148	RVA192CCT26730	266
RS208E-01	182	RSN15050DASN-04	124	RTI1330-25	241	RVA20012IP67-PSU	274
RS208E-02	182	RSN18050DASN-04	124	RTK1240-01	298	RVA20024IP67-PSU	274
RS208E-03	182	RSNB-S	124	RTK1240-04	298	RVA25024-PSU	272
RS208E-13	182	RSNL85-S	124	RTM2540-01	295	RVA3012DU-PSU	273
RS806GZ-01	300	RSNPC-S	124	RTM2540-04	295		

RVA3012-PSU	272	RVA96406730	260	RVE01440DME-04	214
RVA3024DU-PSU	273	RVA96-C	284	RVE01440DME-24	214
RVA3024-PSU	272	RVA96-C1	284	RVE01440E-01	214
RVA32024-PSU	272	RVA96-C2	284	RVE01440E-04	214
RVA48302050	258	RVA96CCT22050	266	RVE01440E-24	214
RVA48306730	258	RVA96CCT26730	266	RVECR-01	214
RVA48402050	258	RVACCT1-AMP	280	RVECR-04	214
RVA48406730	258	RVACCT1-CRTL	278	RVECR-24	214
RVA48-C	284	RVACCT1-WIFI	281	RVEEY-01	214
RVA48-C1	284	RVACCT1-WIFI	24	RVEEY-04	214
RVA48-C2	284	RVACCT1-WP	279	RVEEY-24	214
RVA48L-CONN	282	RVACCT2-C	283	RVR1840-01	172
RVA48T-CONN	282	RVACCT2-C1	283	RVR2440-01	172
RVA48X-CONN	282	RVACCT2-C2	283	RVR265TRIM-01	172
RVA5012DU-PSU	273	RVACCT2-WIFI	281	RVUDMB	98, 100
RVA5024DU-PSU	273	RVARGB-AMP	280	RVUF122FT-24	98
RVA6012IP67-PSU	274	RVARGB-C	284	RVUF122FT-24	96
RVA6012-PSU	272	RVARGB-C1	284	RVUF122FTE-24	99
RVA6024IP67-PSU	274	RVARGB-C2	284	RVUF242FT-24	96, 98
RVA6024-PSU	272	RVARGB-CRTL	278	RVUF242FT-24E	99
RVA67-C	285	RVARGBL-CONN	282	RVUF244FT-24	96, 98
RVA67-C1	285	RVARGBT-CONN	282	RVUF244FT-24E	99
RVA67-C2	285	RVARGBW-AMP	280	RVUF405FT-24	100
RVA67CCT2-C	283	RVARGBW-C	284	RVUF405FT-24	96
RVA67CCT2-C1	283	RVARGBW-C1	284	RVUF405FTE-24	101
RVA67CCT2-C2	283	RVARGBW-C2	284	RVUF484FT-24	98
RVA67CCT2-EC	283	RVARGBW-CRTL	278	RVUF484FT-24	96
RVA67-EC	285	RVARGB-WIFI	24	RVUF484FT-24E	99
RVA67-G	285	RVARGB-WIFI	281	RVUF486FT-24	100
RVA67-G2	283	RVARGBWL-CONN	282	RVUF486FT-24	96
RVA67-H	283, 285	RVARGB-WP	279	RVUF486FT-24E	101
RVA67RGB-C	285	RVARGBWT-CONN	282	RVUF805FT-24	100
RVA67RGB-C1	285	RVARGBW-WIFI	281	RVUF805FT-24	96, 106
RVA67RGB-C2	285	RVARGBW-WIFI	24	RVUF805FTE-24	101
RVA67RGBW-C	285	RVARGBWX-CONN	282	RVUF966FT-24	100
RVA67RGBW-C1	285	RVARGBX-CONN	282	RVUF966FT-24E	101
RVA67RGBW-C2	285	RVBIP1	282	RWL01340-01	180
RVA67RGBW-EC	285	RVBIP2	282	RWL03540-01	180
RVA72RGB2050	262	RVE01440-01	214	RYA2P530-13	307
RVA72RGB6730	262	RVE01440-04	214	RYA2P540-13	307
RVA7512DU-PSU	273	RVE01440-24	214	RZE940-24	222
RVA7524DU-PSU	273	RVE01440DM-01	214	SCCLIP	373
RVA96302050	260	RVE01440DM-04	214	TLSCRS20XE	373
RVA96306730	260	RVE01440DM-24	214	TRW0330SQ-24	226
RVA96402050	260	RVE01440DME-01	214		



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