

## 2013/2014 CATALOGUE

### LED GROUP, ROBUS (AUSTRALIA OFFICE)

59 LUKE STREET  
HEMMANT QLD 4174  
AUSTRALIA  
TEL: +61 7 389 31488  
FAX: +61 7 389 31499

EMAIL: INFO@ROBUSLED.COM.AU  
WWW.ROBUSLED.COM.AU

### MARK NEWTON

MANAGING DIRECTOR  
TEL: +61 450 022 880  
MNEWTON@ROBUSLED.COM.AU

### CRAIG FILER

STATE MANAGER  
(VICTORIA, SOUTH AUSTRALIA &  
NORTHERN TERRITORIES)  
TEL: +61 488 002 219  
CFILER@ROBUSLED.COM.AU

### KATIE SLEIN

GRADUATE SALES EXECUTIVE  
(MELBOURNE METRO, EASTERN VICTORIA  
& TASMANIA)  
TEL: +61 451 532 298  
KSLEIN@ROBUSLED.COM.AU

### NICK SWIFT

STATE MANAGER  
(WESTERN AUSTRALIA)  
TEL: +61 459 533 530  
NSWIFT@ROBUSLED.COM.AU

### STEVE BOOTH

COMMERCIAL MANAGER  
TEL: +61 448 013 842  
SBOOTH@ROBUSLED.COM.AU

### NEIL JONES

STATE MANAGER  
(QUEENSLAND)  
TEL: +61 419 430 426  
NJONES@ROBUSLED.COM.AU

### MIKE G SLEIN

STATE MANAGER  
(NEW SOUTH WALES & AUSTRALIAN  
CAPITAL TERRITORY)  
TEL: +61 407 849 866  
MGSLEIN@ROBUSLED.COM.AU

ROBUS®

2013/2014 CATALOGUE

LEDGROUP

ROBUS®

THE  
LED LIGHTING  
COMPANY  
WITH  
30 YEARS  
EXPERIENCE

QUALITY ROBUS PRODUCTS BY LED GROUP



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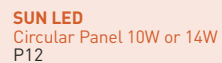
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CONTACT US



## PRODUCT OVERVIEW

## COMMERCIAL

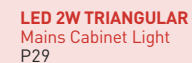
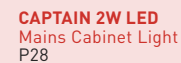


## DOWNLIGHTS



## PRODUCT OVERVIEW

## KITCHEN & FURNITURE



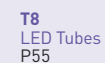
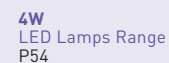
## BATHROOM



## OUTDOOR



**LAMPS**



## LIGHTING CONTROLS









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LIBRARY - NEW SOUTH WALES

LED PANEL - R6060LED-40



SPACE LIGHT PANELS



R6060LED-40

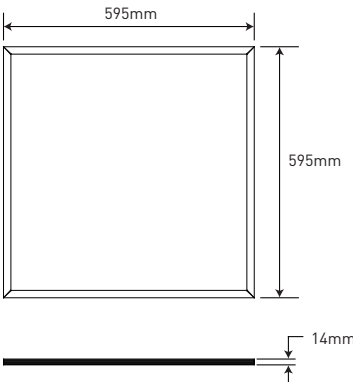


R1230LED-40

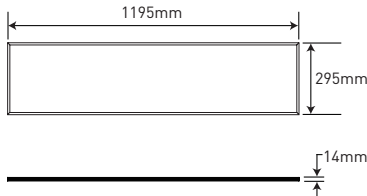
SPACE LED Panel Light  
Available in Standard 60 x 60cm  
Standard 30 x 120cm

- Light output comparable to 4 x 18W and 2 x 36W fluorescent (replacement for fluorescent modular fittings)
- Fits into standard sizes of ceiling grid – 15mm and 24mm
- 50,000 hour average lamp life. Up to 5 times that of a standard fluorescent
- Simple to install and minimal maintenance
- Low glare diffuser and 5500K colour ensures this product can be effectively used in offices, hospitals, restaurants, leisure, retail and educational centres
- Suitable for PIR switching
- 4 wire suspension system available – can suspend panel to a length of 1.5M (RSUSLEDP)
- Surface mounted kits available, see opposite

	60 x 60cm	30 x 120cm
Standard CW	<b>R6060LED-40</b>	<b>R1230LED-40</b>
Comparable to:	4 x 18W fluorescent	2 x 36W fluorescent
Total Power (W):	38	38
Power Factor:	0.9	0.9
Lumens L <sub>100</sub> (lm):	2,600	2,600
Beam Angle (deg):	120	120
Lux at 1m (lux):	1,000	1,000
CCT L <sub>100</sub> (K):	5,500	5,500
CRI at L <sub>100</sub> :	70	70
Luminaire lm/cctW:	69	69
Lifetime L <sub>70</sub> F <sub>10</sub> (hrs):	50,000	50,000
Length (mm):	595	1195
Width (mm):	595	295
Depth (mm):	14	14
Box Qty:	4	1
Weight (kg):	4.6	4.5



R6060LED-40



R1230LED-40

SPACE LIGHT PANELS

Surface mounted kits for standard 60 x 60cm  
and 30 x 120 cm LED panel lights

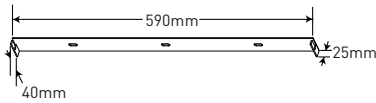
- Allows for surface mounting of LED panels
- Slot brackets and lock screws

	60 x 60cm Standard	30 x 120cm Standard
	<b>R6060SMKD-01</b>	<b>R1230SMKD-01</b>
Length (mm):	590	298
Width (mm):	40	34
Depth (mm):	25	17

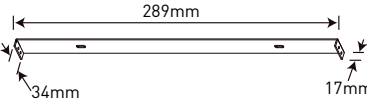
4 wire suspension kit

- Suitable for both 60 x 60cm and 30 x 120 cm panels

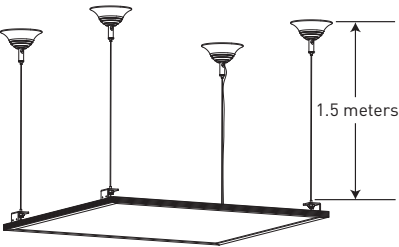
RSUSLEDP



R6060SMKD-01



R1230SMKD-01



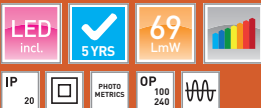


# SPACE Fluorescent Replacement

The ROBUS slim profile LED panel light allows you to create a beautiful environment of space and a sense of natural light.

Fast and simple to install, it replaces the standard 2 x 36W T8 lay-in module to provide energy efficient, but perhaps more importantly, low maintenance solutions where constant replacement of fluorescent tubes and cleaning of the fitting can be avoided.

Installed where energy savings and low maintenance costs are of paramount importance, it will enable the building to achieve a low carbon footprint and complies with today's building regulations producing a massive 69 lumens per circuit watt.



## EXTRA SAVINGS

Suitable for PIR switching

## LOW PROFILE DESIGN

Fits in standard ceiling grid sizes

## ACCESSORIES AVAILABLE

Brackets that enable Panel to be surface mounted. Suspension system that enables Panel to be suspended to a length of 1.5m

## COMPLIANT

Popular across a variety of applications, from offices and hospitals to restaurant, leisure, retail & educational centres

## EASY TO INSTALL

Complete with male/female connectors

## LOW MAINTENANCE COSTS

50,000 hours average life. 5 to 10 times that of a standard fluorescent

## LIGHT OUTPUT

Equal to 2 x 36W fluorescent

## SENSE OF NATURAL LIGHT

Low glare diffuser  
Cool white  
5500K



LIBRARY - NEW SOUTH WALES



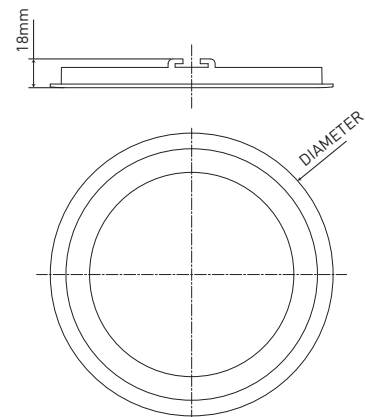
## SUN LIGHT PANELS



SUN Circular LED panel light  
Available in 10W and 14W versions

- C/w driver
- Light output comparable to 18W or 26W PL downlights
- 50,000 hour average lamp life
- Simple to install and low/no maintenance
- Low glare 5,500K ensures this product can be effectively used in offices, hospitals, restaurants, leisure, retail and educational centres
- Suitable for PIR switching

	10W	14W
	R180LEDCAU-40	R240LEDCAU-40
Total Power (W):	10	13
Power Factor:	0.9	0.9
Lumens L100 (lm):	700	1,000
Beam Angle (deg):	120	120
Lux at 1m (lux):	220	300
CCT L100 (K):	5,500	5,500
CRI at L100:	75	75
Luminaire lm/cctW:	70	75
Lifetime L70 F10 (hrs):	50,000	50,000
Diameter (mm):	180	240
Depth (mm):	18	18
Cut-out (mm):	165	225
Box qty:	1	1
Weight (kg):	0.42	0.65



CODE	DIAMETER	DEPTH
R180LEDCAU-40	180mm	18mm
R240LEDCAU-40	240mm	18mm

## HIGHBAY

## HAT 200W Induction High Bay

- An excellent alternative to LED technology for Metal Halide 400W replacements
- Tried & Tested
- 50% energy saving
- High quality light output for a better working environment
- 100,000 hr average lamp life, maintenance free
- Instant start, suitable as part of intelligent energy management
- Wide operating temperature range -25°C to +45°C
- Extreme high frequency, no strobe effects
- Low lamp disposal costs
- Low glare
- CRI >80
- Efficacy >75 lmW
- High Photopic Efficacy >150lmW
- Universal ballast

<b>R200IHBB-23</b>	
<b>Total Power [W]:</b>	202
<b>Power Factor:</b>	0.98
<b>Lumens L<sub>100</sub> (lm):</b>	16,000
<b>Beam Angle (deg):</b>	120
<b>CCT L<sub>100</sub> (K):</b>	5,500
<b>CRI at L<sub>100</sub>:</b>	80
<b>Diameter (mm):</b>	547
<b>Depth (mm):</b>	590
<b>Height (mm):</b>	590
<b>Box Qty:</b>	1
<b>Weight (kg):</b>	7.5





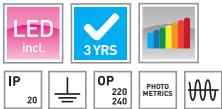
LED SURFACE FITTING



OYSTER LED Fitting  
Available in 12W, 18W or 24W

- High lumen output to suit 60lm/W efficacy requirements
- Light output comparable to 22W / 32W / 40W T8 fittings
- Up to 55% energy saving compared to conventional Oyster T8 fittings
- Polycarbonate diffuser, ABS base and aluminium trim
- Twist and lock type diffuser
- High quality, energy efficient 0.5W SMD LED lighting source
- Easy installation, suitable for wall and ceiling mounting
- Suitable for PIR switching

	12W	18W	24W
White	<b>R12WLEDCWAU-01</b>	<b>R18WLEDCWAU-01</b>	<b>R24WLEDCWAU-01</b>
Br Chrome	<b>R12WLEDCWAU-13</b>	<b>R18WLEDCWAU-13</b>	<b>R24WLEDCWAU-13</b>
Comparable to:	22W T8	32W T8	40W T8
Total Power (W):	12	18	24
Power Factor:	>0.8	>0.8	>0.8
Lumens L100 (lm):	725	1,100	1,450
Beam Angle (deg):	120	120	120
Lux at 1m (lux):	115	305	385
CCT L100 (K):	4,000	4,000	4,000
CRI at L100:	85	85	85
Luminaire lm/cctW:	>60	>60	>60
Lifetime L70 F10 (hrs):	30,000	30,000	30,000
Diameter (mm):	266	327	395
Height (mm):	88	88	106
Box Qty:	<b>10</b>	<b>10</b>	<b>10</b>
Weight (kg):	0.5	0.6	0.9

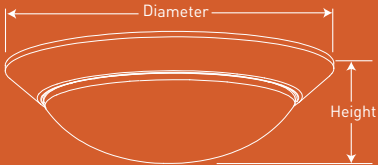


LED SURFACE FITTING

OYSTER LED  
Revolutionary Retrofit Solution

Reducing energy costs and therefore carbon emissions is of primary importance for all building types. Utilising the latest Surface Mount Diode LED and driver technology these fittings provide a cost effective, energy saving solution for applications ranging from illuminating store cupboards or bathrooms to larger communal lounge areas.

Perhaps as important, huge savings in maintenance and traditional lamp change costs can be achieved to provide very short paybacks where automatic switching by sensor is employed which reduces traditional lamp life considerably OR continuous use operation causing ballast life to be adversely affected.



	Diameter	Height
<b>R12WLEDCWAU-01/13</b>	266mm	95mm
<b>R18WLEDCWAU-01/13</b>	327mm	95mm
<b>R24WLEDCWAU-01/13</b>	395mm	105mm

**SUITABLE FOR PIR SWITCHING**  
Microwave, PIR & Photocell

**12W, 18W OR 24W VERSIONS**  
Suitable for energy saving applications

**CEILING AND WALL MOUNTABLE**  
Ideal for apartments, public buildings, stairwells, corridors, and a variety of areas

**CHOICE OF WHITE OR BRUSHED CHROME TRIMS**

**4,000K WITH HIGH CRI**  
Clear visibility  
Ideal for security lighting

**SURFACE MOUNT SAMSUNG LED**  
30,000 hours average LED lamp life  
>55% Energy Saving compared to conventional T8 fittings

**LONG SERVICE LIFE**  
Aluminium Base with high impact UV stabilised Polycarbonate twist & lock trim and frosted diffuser





CENTRO GALLERIA - WESTERN AUSTRALIA

## DOWNLIGHTS

# 018

WALLWASHERS

# 020

LED DOWNLIGHTS

# 025

UNIVERSAL  
DOWNLIGHTS - PL



10W DIMMABLE LED DOWNLIGHT - R10WDLWW-01

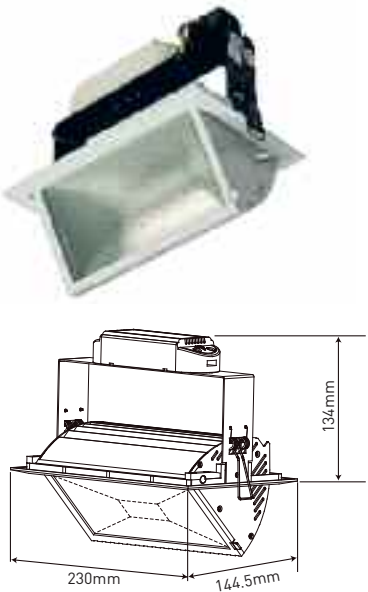
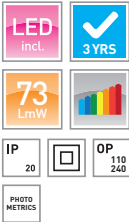


WALL WASHERS

ROCK STAR LED 36W Recessed Wall Washer

- Adjustable tilt of 60°
- No UV content
- No lamp changes
- Frosted glass to minimise glare

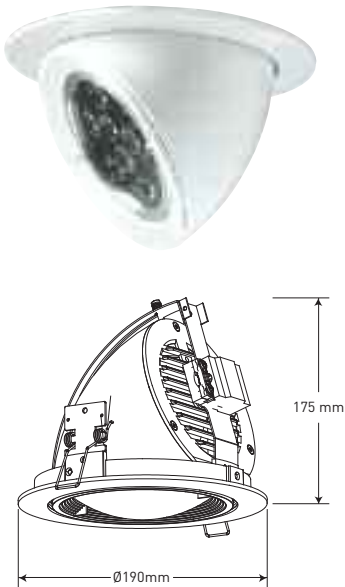
<b>R36RLEDAU-01</b>	White
<b>Total Power (W):</b>	36
<b>Power Factor:</b>	0.95
<b>Lumens L100 (lm):</b>	2,500
<b>Luminaire lm/cctW:</b>	73
<b>CCT L100 (K):</b>	4,500
<b>CRI at L100:</b>	75
<b>Length (mm):</b>	230
<b>Width (mm):</b>	144
<b>Height (mm):</b>	134
<b>Cut-out (mm):</b>	130 x 220
<b>Box Qty:</b>	1
<b>Weight (kg):</b>	2



LED Swivel and Scoop Downlight, 18W

- High power 9 x 2W white LEDs
- 50,000 hour average lamp life
- 4,000K colour temperature
- Adjustable, rotates up to 350° and downward tilt to 70°
- Ideal for wall washing or display
- Only 18W, light output comparable to 2 x 18W PL
- Die cast aluminium construction
- No UV content
- Plug and play driver

<b>R92LEDWCW-01*</b>	White
<b>Comparable to:</b>	2 x 18W PL
<b>Total Power (W):</b>	18
<b>Power Factor:</b>	0.85
<b>Lumens L100 (lm):</b>	850
<b>Beam Angle (deg):</b>	20
<b>Lux at 1m (lux):</b>	4,800
<b>CCT L100 (K):</b>	4,000
<b>CRI at L100:</b>	75
<b>Luminaire lm/cctW:</b>	56
<b>Lifetime L70 F10 (hrs):</b>	50,000
<b>Diameter (mm):</b>	190
<b>Height (mm):</b>	160
<b>Cut-out (mm):</b>	175
<b>Box Qty:</b>	8
<b>Weight (kg):</b>	1.3

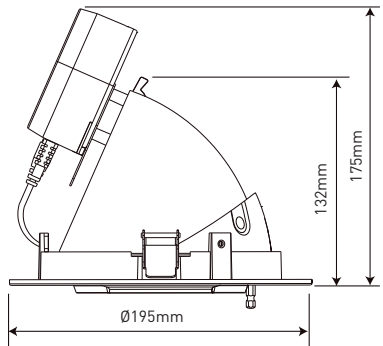
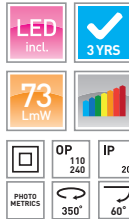


WALL WASHERS

WILSON 38W LED Downlight, Adjustable

- Adjustable, rotates up to 350° with downward tilt to 70°
- 50,000 hour average lamp life
- 4000K cool white light output
- 70° beam angle

<b>R38LEDCAU-01</b>	White
<b>Total Power (W):</b>	38
<b>Power Factor:</b>	0.95
<b>Lumens L100 (lm):</b>	2,800
<b>Beam Angle (deg):</b>	70
<b>Lux at 1m (lux):</b>	2,000
<b>CCT L100 (K):</b>	4,000
<b>CRI at L100:</b>	85
<b>Luminaire lm/cctW:</b>	73
<b>Lifetime L70 F10 (hrs):</b>	50,000
<b>Diameter (mm):</b>	195
<b>Depth (mm):</b>	175
<b>Cut-out (mm):</b>	170
<b>Box Qty:</b>	1
<b>Weight (kg):</b>	1.5





## LED DOWNLIGHTS



## 10W IP44 LED Downlight, Dimmable

- This fitting complies with the requirements for the F mark. Also in line with AS/NZS 3000:2007 Clause 4.5.2.3 the fitting does not require a heat canister or shield for installation
- Average LED lamp life of 50,000 hours
- C/w driver, flex and plug. Also quick fix secondary connector for easy installation
- Dimmable with leading or trailing edge dimmer
- 3,000K (warm white) and 4,000K (cool white) light output
- Surface-mount-can accessory available for use with both R10WDL and R14WDL. Available in white (R1014SURFCAN-01) and Satin Silver (R1014SURFCAN-15)
- C-Bus compatible

	Warm White	Cool White
White	<b>R10WDLWW-01</b>	<b>R10WDLWCW-01</b>
Satin Silver	<b>R10WDLWW-15</b>	<b>R10WDLWCW-15</b>
<b>Comparable to:</b>	50W Dichroic	50W Dichroic
<b>Total Power (W):</b>	>10	>10
<b>Power Factor:</b>	>0.9	>0.9
<b>Lumens L<sub>100</sub> (lm):</b>	700	750
<b>Beam Angle (deg):</b>	95	95
<b>CCT L<sub>100</sub> (K):</b>	3,000	4,000
<b>CRI at L<sub>100</sub>:</b>	85	85
<b>Lifetime L<sub>70</sub> F<sub>10</sub> (hrs):</b>	50,000	50,000
<b>Diameter (mm):</b>	110	110
<b>Depth (mm):</b>	62	62
<b>Cut-out (mm):</b>	92	92
<b>Box Qty:</b>	<b>1</b>	<b>1</b>
<b>Weight (kg):</b>	0.42	0.42



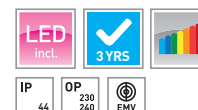
## LED DOWNLIGHTS



### 14W IP44 LED Downlight, Dimmable

- This fitting complies with the requirements for the F mark. Also in line with AS/NZS 3000:2007 Clause 4.5.2.3 the fitting does not require a heat canister or shield for installation
- Average LED lamp life of 50,000 hours
- C/w driver, flex and plug. Also quick fix secondary connector for easy installation
- Dimmable with leading or trailing edge dimmer
- 3,000K (warm white) and 4,000K (cool white) light output
- Surface-mount-can accessory available for use with both R10WDL and R14WDL. Available in white (R1014SURFCAN-01) and Satin Silver (R1014SURFCAN-15)
- C-Bus compatible

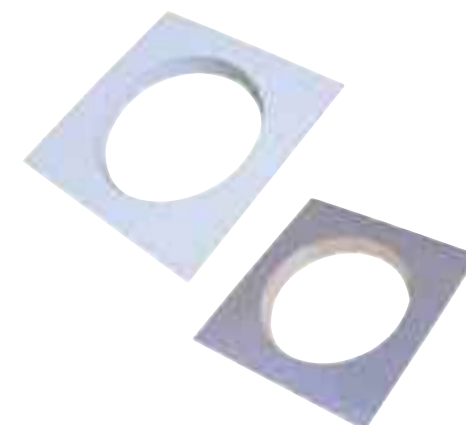
	Warm White	Cool White
	<b>R14WDLWW-01</b>	<b>R14WDLWCW-01</b>
	<b>R14WDLWW-15</b>	<b>R14WDLWCW-15</b>
<b>Comparable to:</b>	50W Dichroic	50W Dichroic
<b>Total Power (W):</b>	14	14
<b>Power Factor:</b>	0.96	0.96
<b>Lumens L100 (lm):</b>	950	1,000
<b>Beam Angle (deg):</b>	95	95
<b>CCT L100 (K):</b>	3,000	4,000
<b>CRI at L100:</b>	80	80
<b>Lifetime L70 F10 (hrs):</b>	50,000	50,000
<b>Diameter (mm):</b>	110	110
<b>Depth (mm):</b>	75	75
<b>Cut-out (mm):</b>	92	92
<b>Box Qty:</b>	<b>1</b>	<b>1</b>
<b>Weight (kg):</b>	0.75	0.75



### Square Trim Accessory for 10W and 14W LED Downlights

- Separate square trim to fit both 10W & 14W LED downlights
- Easy to install

RTRIMR1014WSQ-01	White
RTRIMR1014WSQ-15	Satin Silver
Length (mm):	108
Width (mm):	108
Depth (mm):	10
Box Qty:	8
Weight (kg):	0.04





LED DOWNLIGHTS



20W



30W



50W



70W

High Power LED Downlights, Cool White  
Available in 20W, 30W, 50W and 70W

- Comparable to 35W/50W/70W/100W Metal Halide
- Average LED lamp life of 50,000 hours
- C/w driver and quick fix secondary connector for easy installation
- 20W/30W/50W fittings are compatible with C-Bus dimming systems
- 4,000K cool white light output

	20W	30W
Cool White	<b>R20WDLWCW-01</b>	<b>R30WDLWCW-01</b>
Comparable to:	35W Metal Halide	50W Metal Halide
Total Power (W):	20	30
Power Factor:	0.9	0.9
Lumens L100 (lm):	1,600	2,600
Beam Angle (deg):	95	95
CCT L100 (K):	4,000	4,000
CRI at L100:	85	85
Luminaire lm/cctW:	>75	>75
Lifetime L70 F10 (hrs):	50,000	50,000
Diameter (mm):	230	230
Depth (mm):	90	106
Cut-out (mm):	175	175
Box Qty:	1	1
Weight (kg):	1.25	1.5

	50W	70W
Cool White	<b>R50WDLWCW-01</b>	<b>R70WDLWCW-01</b>
Comparable to:	70W Metal Halide	100W Metal Halide
Total Power (W):	50	70
Power Factor:	0.9	0.9
Lumens L100 (lm):	4,000	4,600
Beam Angle (deg):	95	95
CCT L100 (K):	4,000	4,000
CRI at L100:	85	85
Luminaire lm/cctW:	75	65
Lifetime L70 F10 (hrs):	50,000	50,000
Diameter (mm):	230	230
Depth (mm):	122	100
Cut-out (mm):	175	175
Box Qty:	1	1
Weight (kg):	1.6	1.6



CENTRO GALLERIA - WESTERN AUSTRALIA



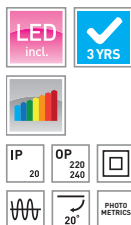
## LED DOWNLIGHTS



## 10W LED Module, LEDCHROIC

- 1 x 10W Sharp LED Module delivering light output similar to 50W GU10 lamp
- LEDCHROIC lens technology - giving similar light output as standard halogen dichroic lamps
- 60° beam angle
- Adjustable head - white and brushed chrome
- Fully dimmable (recommend Clipsal Universal Dimmer)
- Quick "push fix" for easy connection to the module
- Average life of 50,000 hours
- Complete with LED Driver, Flex and Plug

WW White	LEDD/L1030K60DHWHT
WW B Chrome	LEDD/L1030K60DSLV
CW White	LEDD/L1050K60DHWHT
CW B Chrome	LEDD/L1050K60DSLV
Comparable to:	50W Halogen
Total Power (W):	10.5
Power Factor:	0.95
Lumens L100 (lm): WW:	600
CW:	650
Beam Angle (deg):	60
Lux at 1m (lux): WW:	680
CW:	750
CCT L100 (K): WW:	3,000
CW:	5,000
CRI at L100:	>80
Luminaire lm/cctW: WW:	56
CW:	60
Lifetime L70 F10 (hrs):	40,000
Diameter (mm):	106
Depth (mm):	88
Cut-out (mm):	90
Box Qty:	1
Weight (kg):	0.4









## UNIVERSAL DOWNLIGHTS

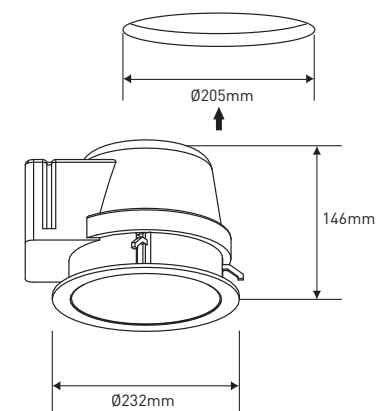
Universal PL Fitting available with:

1 x 18W or 1 x 26W lampholder

2 x 18W or 2 x 26W lampholder

- Complete with combined universal ballast
- 18W or 26W – one fitting can be used for either wattage
- C/w quick fix male and female mains connector
- High frequency control gear giving up to 50% longer lamp life

	Standard		
	<b>RUN118+126AU-01</b>		
	<b>RUN1218+226AU-01</b>		
<b>Total Power (W):</b>	18, 26		
	Or 2 x above		
<b>Diameter (mm):</b>	232		
<b>Depth (mm):</b>	146		
<b>Cut-out (mm):</b>	205		
<b>Box Qty:</b>	<b>1</b>		
<b>Weight (kg):</b>	1.6		
<b>Cap Type:</b>	G24Q-2		
	G24Q-3		





## CABINET DOWNLIGHTS





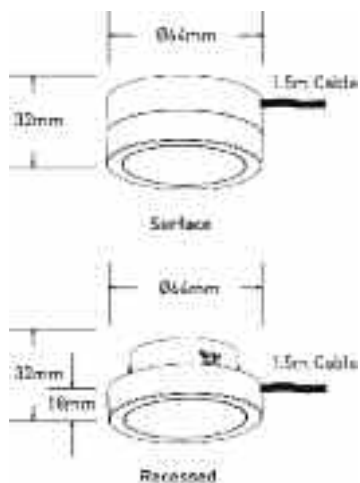
## CABINET DOWNLIGHTS



## CAPTAIN 2W LED Mains Voltage Cabinet Light

- Light output comparable to 10W halogen
- Can be surface mounted or semi recessed – remove outer cowl for semi recessed option
- 20,000 hour average lamp life
- Mains voltage - no need for driver
- Complete with 1.5m cable
- No UV or infra red in the light beam, ensuring suitability for sensitive display items

<b>R2CLED240-01</b>	White
<b>R2CLED240-15</b>	Satin Silver
<b>Comparable to:</b>	10W Halogen
<b>Total Power (W):</b>	2
<b>Beam Angle (deg):</b>	120
<b>CCT L100 (K):</b>	3,200-3,500
<b>Lifetime L70 F10 (hrs):</b>	20,000
<b>Diameter (mm):</b>	64
<b>Depth (mm):</b>	32 Surface 18 Recessed
<b>Cut-out (mm):</b>	45
<b>Box Qty:</b>	<b>1</b>
<b>Weight (kg):</b>	0.07

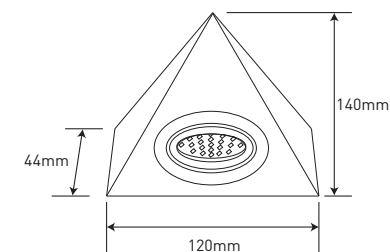
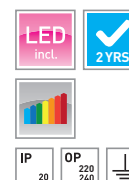


## CABINET DOWNLIGHTS

## LED 2W Triangular Cabinet Light, Mains Voltage

- Light output comparable to 10W halogen
- 20,000 hour average lamp life
- No UV or infra red in the light beam, ensuring suitability for sensitive display items
- Mains operation
- C/w 1.5m cable
- 3.500K

<b>R3011LED240-13</b>	B Chrome
<b>Total Power (W):</b>	2
<b>Beam Angle [deg]:</b>	120
<b>CCT L100 (K):</b>	3,200-3,500
<b>Diameter (mm):</b>	48
<b>Width (mm):</b>	120
<b>Depth (mm):</b>	44
<b>Height (mm):</b>	140
<b>Box Qty:</b>	<b>10</b>
<b>Weight (kg):</b>	0.25







PRIVATE BATHROOM

32  
HAND DRYERS

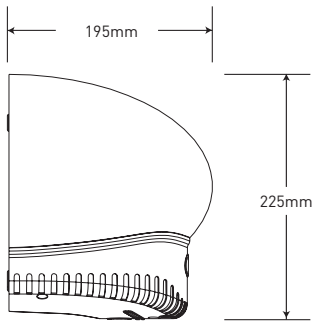


HELM HAND DRYER - R1350HSD-15



HAND DRYERS

HELM 1350W High Speed Hand Dryer



- 50% less energy 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 seconds
- 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

R1350HSD-01	White
R1350HSD-15	Satin Silver
Total Power (W):	1350
Depth (mm):	195
Width (mm):	267
Height (mm):	225
Box Qty:	1
Weight (kg):	3.8

IP 22

OP 220 240



AIB BANK CENTRE - DUBLIN, IRELAND





CENTRO GALLERIA - WESTERN AUSTRALIA

## OUTDOOR

35

### 036

CORROSION PROOF

### 038

WALL LIGHTS

### 039

GROUNDLIGHTS

### 040

GARDEN SPIKES /  
SPOTLIGHTS

### 042

FLOOD LIGHTS

### 046

WALL WASHERS - LED

### 050

CIRCULAR SINGLES & KITS

### 051

OUTDOOR ACCESSORIES



10W HIGH POWERED LED FLOOD LIGHT - R10LED-24



## CORROSION PROOF

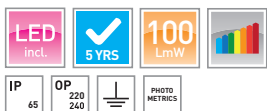


## VULCAN LED Corrosion Proof

Available in: 1200mm (4ft) Single & Double  
600mm (2ft) Single & Double

- LED replacement for 18W or 36W fluorescent fittings
- 5000K cool white light output
- 50,000 hour average lamp life
- IP65, can be used for internal or external applications
- Plastic clips available

	1 x 24W	2 x 24W	1 x 12W	2 x 12W
	R124LEDCP-01	R224LEDCP-01	R112LEDCP-01	R212LEDCP-01
Comparable to:	1x36W T8 Fluorescent	2x36W T8 Fluorescent	1x18W T8 Fluorescent	2x18W T8 Fluorescent
Total Power (W):	24	48	12	24
Power Factor:	0.9	0.9	0.9	0.9
Lumens L100 (lm):	2,700	4,800	1,300	2,650
Beam Angle (deg):	110	110	110	110
Lux at 1m (lux):	685	1,350	360	720
CCT L100 (K):	5,000	5,000	5,000	5,000
CRI at L100:	70	70	72	72
Luminaire lm/cctW:	108	105	108	110
Lifetime L70 F10 (hrs):	50,000	50,000	50,000	50,000
Length (mm):	1,258	1,528	660	660
Width (mm):	93	140	93	140
Height (mm):	97	97	97	97
Box Qty:	1	1	1	1
Weight (kg):	2.5	3.0	1.0	1.35
IP:	65	65	65	65



## CORROSION PROOF

**VULCAN**

### Linear fluorescent replacement



**LIGHT OUTPUT** .....  
Replacement for  
2 x 36W fluorescent

**EXTRA SAVINGS**  
Suitable for PIR switching

**BRIGHT** .....  
>100LmW

- **LOW MAINTENANCE COSTS**  
50,000 hours average lamp life

**LOW GLARE** .....  
5000K cool white  
High efficiency  
diffuser

- **ROBUST**  
Shock and vibration resistant  
Stainless steel clips

- **WEATHERPROOF**  
IP65



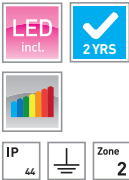
WALL LIGHTS



Up/Down 2 x 3W, warm white LEDs

- 2 x 3W warm white LEDs
- 50,000 hour average lamp life
- Detachable wall mounting bracket included for easy installation
- Suitable for interior and exterior applications
- Integral driver

<b>R23LEDUD-15</b>	Satin Silver
<b>Total Power (W):</b>	6
<b>Width (mm):</b>	65
<b>Height (mm):</b>	125
<b>Proj (mm):</b>	65
<b>Box Qty:</b>	1
<b>Weight (kg):</b>	0.5



Up/Down c/w 11W GU10 CFL lamps

- 304 stainless steel
- Corrosion resistant
- C/w 11W GU10 CFL lamps – 4000K cool white
- IP44, for indoor or outdoor use
- 10,000 hour average lamp life

<b>R235CFL-13</b>	B Chrome
<b>Total Power (W):</b>	2 x 11
<b>Diameter (mm):</b>	65
<b>Depth (mm):</b>	120
<b>Height (mm):</b>	165
<b>Box Qty:</b>	4
<b>Weight (kg):</b>	0.8
<b>Cap Type:</b>	GU/GZ10

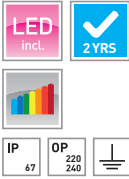


GROUND LIGHTS

IP67 18W Asymmetric Drive Over LED Ground Light

- LED alternative to standard metal halide and PL fittings
- Complete with IP67 loop-in loop-out T connector and mounting sleeve
- 45° angle elevation, 25° beam width
- 0.5m flex between fitting and junction box
- Suitable for 3 tonne load @ 15km/h

<b>R18ASGL</b>	6 x 3W LEDs
<b>Total Power (W):</b>	18
<b>Diameter (mm):</b>	165
<b>Depth (mm):</b>	Fitting 90 Sleeve 110
<b>Cut-out (mm):</b>	Fitting 120, 150 x 10 Sleeve 196
<b>Box Qty:</b>	1
<b>Weight (kg):</b>	1.6





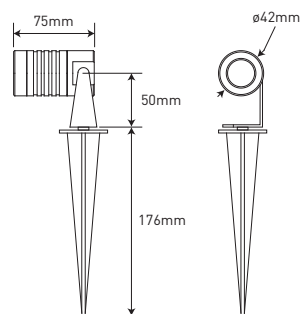
## GARDEN SPIKES / SPOTLIGHTS



- ### 3W Two-in-One Spike and Wall mount fitting

- 3W high power warm white LED
- Adjustable head
- 2 in 1 design, suitable for spike or wall mounting
- 50,000 hour average lamp life
- Driver sold separately (R12VACTR35W)

<b>R2IN13WAU</b>	
<b>Total Power (W):</b>	<b>3</b>
<b>Diameter (mm):</b>	<b>42</b>
<b>Length (mm):</b>	<b>75</b>
<b>Box Qty:</b>	<b>1</b>
<b>Weight (kg):</b>	<b>0.3</b>



## GARDEN SPIKES / SPOTLIGHTS



- 3 x 1W '3 IN 1' Ground light, Wall light or Spike Fitting

- 3 x 1W warm white high power LEDs
- Adjustable head
- 3 in 1 design, suitable for ground, spike or wall mounting
- 50,000 hour average lamp life
- Driver sold separately (R12VACTR35W)
- Suitable for walk over applications

<b>R3IN13WAU</b>	
<b>Total Power (W):</b>	3
<b>Diameter (mm):</b>	108
<b>Length (mm):</b>	110
<b>Cut Out (mm):</b>	Fitting 95 Sleeve 105
<b>Box Qty:</b>	6
<b>Weight (kg):</b>	0.3





## FLOOD LIGHTS



10W



30W



50W

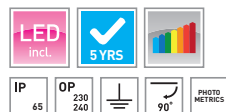


80W

## High Powered LED Flood Light

- Energy efficient replacement for linear halogen and metal halide fittings
- 35,000 hour average lamp life
- C/w integral driver, mounting bracket and pre-wired with 1m of rubber flex
- Die-cast aluminium housing with durable high quality paint finish
- Ground spike available for 10W floodlight (R210MMSPIKE)
- Comparable to Metal Halide 20W/50W/70W/100W
- Suitable for use with PIRs. LED flood lights have no re-striking time associated with metal halide and SON fittings and can be switched on and off in quick succession
- Solid state technology – not affected by adverse temperatures

	10W	30W	50W	80W
	<b>R10LED-F-24</b>	<b>R30LED-F-24</b>	<b>R50LED-F-24</b>	<b>R80LED-F-24</b>
<b>Depth (mm):</b>	85	134	143	112
<b>Width (mm):</b>	115	225	285	285
<b>Height (mm)::</b>	95	204	235	360
<b>Box Qty:</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Weight (kg):</b>	0.7	2.1	2.9	5.6
<b>Total Power (W):</b>	10	30W	50W	80W
<b>CCT L100 (K):</b>	4,500	4,500	4,500	4,500

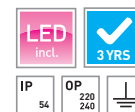


## FLOOD LIGHTS

## PIR 10W & 30W High Powered LED Flood Light

- Energy efficient replacement for linear halogen and metal halide fittings
- 30,000 hour average lamp life
- PIR is mounted on an adjustable arm with detection of 90°, adjustable time setting from 5 seconds to 4 minutes and lux settings from day time to night time

	R10LEDFPiR-24	R30LEDFPiR-24
<b>Total Power (W):</b>	10	30
<b>Depth (mm):</b>	96	134
<b>Width (mm):</b>	173	250
<b>Height (mm):</b>	115	225
<b>Box Qty:</b>	<b>1</b>	<b>1</b>
<b>Weight (kg):</b>	0.7	2.3
<b>CCT L100 (K):</b>	4,500	4,500



## Signage Arm for 10W LED Flood

- 600mm arm allows projected illumination for signage and other display purposes
- Only for use with the R10LEDF-24

R10FSA-24	Grey
Proj (mm):	600



R10LEDPIR

R30LEDPIR



R10FSA-24



R210MMSPIKE

### Stainless Steel Spike

- For use with the R10LEDf-24 (10W fitting only)

<b>R210MMSPIKE</b>	
<b>Height (mm):</b>	210







CENTRO GALLERIA - WESTERN AUSTRALIA



CENTRO GALLERIA - WESTERN AUSTRALIA



WALL WASHERS – LED

9 x 1W RGB Controllable Exterior Wall Washer



- Kit includes driver, receiver, hand held remote, cable and 1 fitting (R91RGB1)
- Fully remote controllable, ability to choose your desired colour
- Plug and play cables for easy installation
- A maximum of 4 fittings can be connected together using additional R91RGB1

<b>R91RGBK</b>	Kit
<b>R91RGB1</b>	Single
<b>Total Power (W):</b>	9
<b>Depth (mm):</b>	125
<b>Length (mm):</b>	270
<b>Height (mm):</b>	120
<b>Box Qty:</b>	1
<b>Weight (kg):</b>	1.2

LED  
incl.

2 YRS

IP 65

180°

12dc



WALL WASHERS – LED

18 x 3W RGB linear wall washer

- 54W LED RGB wall washer
- Plug and play connections
- Anodized Aluminium housing
- Suitable for commercial application
- Control options: RK1RGB (DMX) or RK2RGB controller/receiver with hand held remote
- Beam Angle 25°
- See next page for assembly instructions

<b>R183-RGB</b>	
<b>Total Power (W):</b>	54
<b>Length (mm):</b>	1,005
<b>Width (mm):</b>	60
<b>Height (mm):</b>	120
<b>Box Qty:</b>	1
<b>Weight (kg):</b>	2.75

LED  
incl.

2 YRS

IP 65

180°

24dc



Round IP65 male plus female connector on 300mm cable

- Product allows connection from R183-RGB to RGB decoder: RK3EXT, signal repeater RKRPT1 or extending the RGB signal to another location
- C/w two pieces of heat shrink

<b>RKMF2</b>	
<b>Diameter (mm):</b>	20
<b>Length (mm):</b>	350
<b>Box Qty:</b>	1
<b>Weight (kg):</b>	0.07

2 YRS

IP 65

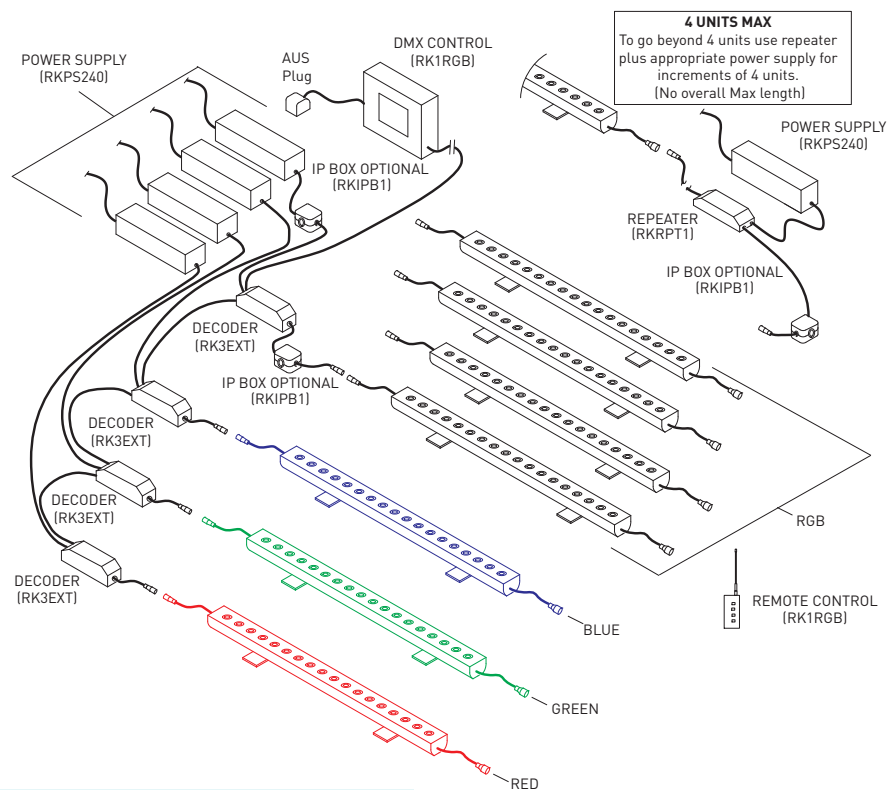




## WALLWASHER – ASSEMBLY INSTRUCTIONS

R183-RGB 18 x 3W RGB linear wall washer, IP65  
**DMX Controlled**

**Note:** 4 UNITS MAX. To go beyond 4 units use repeater plus appropriate power supply for increments of 4 units.  
(No overall max length)



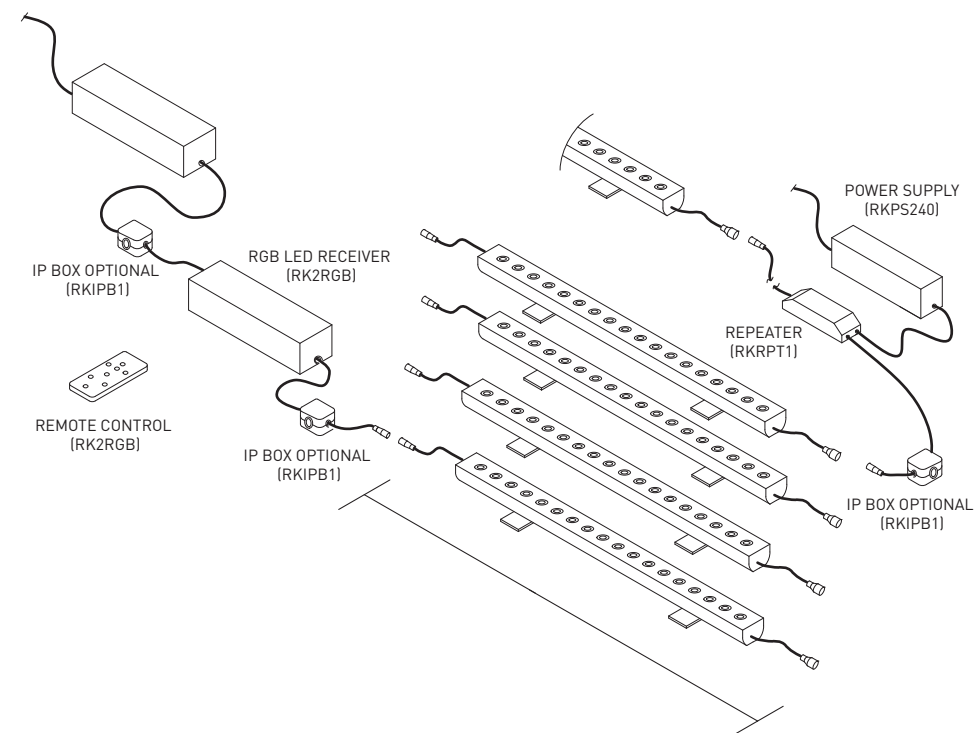
PRODUCT CODE	PRODUCT
<b>RK1R6B</b>	DMX control, CD programme & remote control & Aus plug
<b>RK3EXT</b>	Decoder unit
<b>RKPS240</b>	240W power supply
<b>R183-RGB</b>	18 x 3W Linear RGB
<b>RKMF2</b>	Male female connector cables
<b>RKRPT1</b>	Repeater unit
<b>RKIPB2</b>	IP65 box for decoder & repeater
<b>RKIPB1</b>	IP65 box with 4 way terminal connectors
IP box optional for decoder & repeater	

## OUTDOOR

## WALLWASHER – ASSEMBLY INSTRUCTIONS

R183-RGB 18 x 3W RGB linear wall washer, IP65  
**RK2RGB Controlled**

**Note:** 4 UNITS MAX. To go beyond 4 units use repeater plus appropriate power supply for increments of 4 units. (No overall max length)



PRODUCT CODE	PRODUCT
<b>RK2RGB</b>	Remote & Controller/Receiver
<b>RKPS240</b>	240W power supply
<b>R183-RGB</b>	18 x 3W Linear RGB
<b>RKMF2</b>	Male female connector cables
<b>RKRPT1</b>	Repeater unit
<b>RKIPB1</b>	IP65 box for decoder & repeater
<b>RKIPB2</b>	IP65 box with 4 way terminal
IP box optional for decoder & repeater	

DRIVERS	NO OF UNITS
RKPS240	4

The RKPS240 can power up to 4 x R183-RGB









## CIRCULAR SINGLES AND KITS

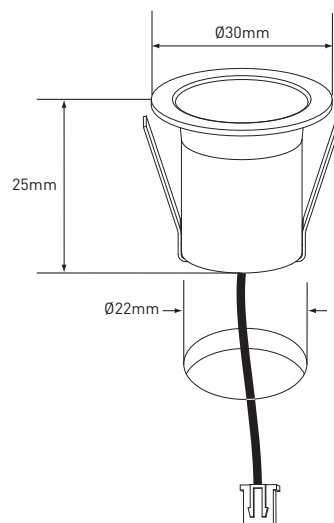
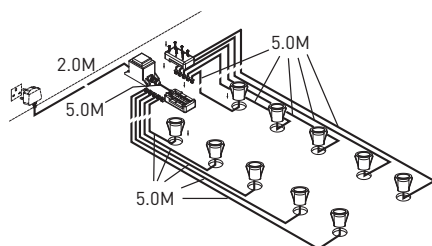


IP68 Circular Kit (3 LEDs); in 5 or 10 fittings

- Plug & play kit containing either 5 or 10 miniature fittings each with 3 LEDs in either blue or white, 6W IP44 driver, connector cables, lead and plug
- Each fitting c/w clips for mounting and 5m cable
- Lights can be up to 10m apart
- Cool running
- 20,000 hour average lamp life
- 0.12W super bright SMD LEDs

	R3LED5S-01	R3LED10S-01
	R3LED5S-07	R3LED10S-07
<b>Total Power (W):</b>	1.8	3.6
<b>Diameter (mm):</b>	30	30
<b>Depth (mm):</b>	25	25
<b>Cut-out (mm):</b>	22	22
<b>Box Qty:</b>	<b>8</b>	<b>8</b>
<b>Weight (kg):</b>	1.38	1.75



## OUTDOOR

## OUTDOOR ACCESSORIES

## 12W AC IP44 35W Power Supply

- 2m cable
- Range 0-12W, 12V SELV output
- Thermal protection
- Suitable with R2IN13W and R3IN13W

<b>R12VACTR35W</b>	
<b>Total Power (W):</b>	35
<b>Box Qty:</b>	4
<b>Weight (kg):</b>	0.75



7.65M Link cable with 3 connection points

- Links up to a maximum of 3 fittings to one power supply
- C/w 3 tap offs spaced every 2 meters
- For use with R2IN13W and R3IN13W



<b>RLINKCABLE</b>	
<b>Length (mm):</b>	7,500

2.5M RGB extension cable with 2 connection points

- For use with RGB range of products
- 2 additional connection points to enable user to expand the RGB kit
- Plug and play connectors
- Easy to install

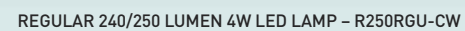


<b>REXTRGB</b>	
<b>Length (mm):</b>	2,500



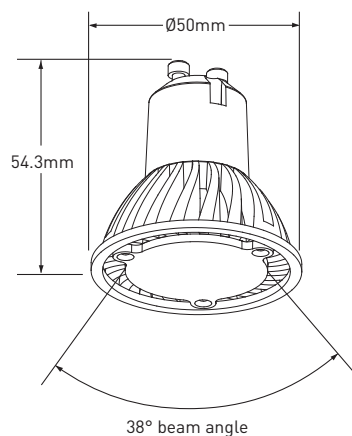


CFL





### LED – GU10



Regular 4W LED; 240/250 lumen GU10  
Available in warm white and cool white

- Same size as standard GU10 lamp
- High efficacy of 55 lamp lumens per watt
- CRI 70
- LED alternative to 35W Halogen
- 30,000 hour average lamp life
- 38° beam angle
- Up to 89% energy saving compared to traditional lamps
- Non dimmable
- Cool beam, no UV or IR content

	WW	CW
	<b>R250RGU-WW</b>	<b>R250RGU-CW</b>
<b>Comparable to:</b>	35W Halogen	35W Halogen
<b>Total Power (W):</b>	4	4
<b>Lumens L100 (lm):</b>	240	250
<b>Beam Angle (deg):</b>	38	38
<b>Lux at 1m (lux):</b>	380	470
<b>CCT L100 (K):</b>	3,000	4,000
<b>CRI at L100:</b>	70	70
<b>Luminaire lm/cctW:</b>	55	60
<b>Lifetime L70 F10 (hrs):</b>	30,000	30,000
<b>Diameter (mm):</b>	50	50
<b>Height (mm):</b>	55	55
<b>Box qty:</b>	<b>10</b>	<b>10</b>
<b>Weight (kg):</b>	0.08	0.08
<b>Cap Type:</b>	GU10	GU10



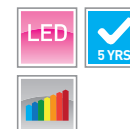
## LAMPS

## LED

T8 LED Tube available in 8W, 16W, or 20W versions

- Light output comparable to 16W/32W/40W fluorescent
- 50,000 hour average lamp life
- 240V operated, remove starter for single lamp fitting or for multiple lamp operation disconnect wire wound ballast from the circuit and connect 240V supply to lamp holders
- Suitable for cold environments (-20°C to 40°C) – no lumen drop at low temperatures
- Perfect for light fitting locations that are difficult to reach or where it is expensive to have fluorescent tubes replaced
- No need for reflector because of beam angle
- Non dimmable

	2" 8W	4" 16W	5" 20W
	R8T8LED-CW	R16T8LED-CW	R20T8LED-CW
Comparable to:	16W	32W	40W
Total Power (W):	8	16	20
Lumens L100 (lm):	680	1,360	1,700
Beam Angle (deg):	180	180	180
Lux at 1m (lux):	200	400	460
CCT L100 (K):	4,000-5,000	4,000-5,000	4,000-5,000
CRI at L100:	83	83	83
Lifetime L70 F10 (hrs):	50,000	50,000	50,000
Length (mm):	600	1,200	1,500
Diameter (mm):	32	32	32
Cap Type:	G13	G13	G13





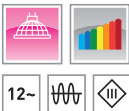
MR16 ENERGY SAVING



MR16 35W HALOGEN

- 35W equivalent to standard 50W
- 30% energy saving halogen lamp
- Light output is comparable to a 50W dichroic
- 60° beam angle
- Warm white lamp – 2,700K
- Dimmable

<b>R35MRIR</b>	2,700K
<b>Total Power (W):</b>	35
<b>Diameter (mm):</b>	50
<b>Depth (mm):</b>	45
<b>Lumens:</b>	700
<b>Box Qty:</b>	<b>10</b>
<b>Cap Type:</b>	GX5.3



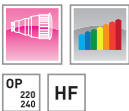
CFL



11W CFL GU10 in Cool or Warm White

- 11W power consumption, energy efficient
- Warm white lamp(-27) – 2,700K
- Cool white lamp(-40) – 4,000K
- 10,000 hour average lamp life
- Reduced maintenance compared to standard GU10
- Non dimmable

<b>R11GU10CFL-40</b>	Cool White
<b>R11GU10CFL-27</b>	Warm White
<b>Total Power (W):</b>	11
<b>Diameter (mm):</b>	50
<b>Depth (mm):</b>	72
<b>Box Qty:</b>	<b>1</b>
<b>Cap Type:</b>	GU10



CROWN HOTEL - SYDNEY





CENTRO GALLERIA - WESTERN AUSTRALIA

# 060

INTERNAL PIRS

# 062

EXTERNAL PIRS

# 063

DIMMABLE ELECTRONIC  
TRANSFORMERS FOR  
12V DOWNLIGHTS



UNIVERSAL 360° PIR - RU360-01





Surface

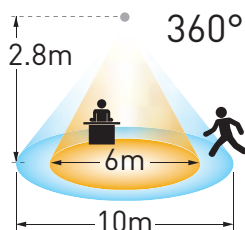
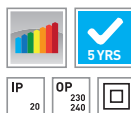


Recessed

## UNIVERSAL 360° PIR Recessed or Surface Mounted

- Suitable for both surface and recessed applications
- Plug in terminal block and sensor module
- Large terminals accept 2 x 1.5mm<sup>2</sup> conductors in each terminal; facility to loop in/loop out to parallel sensors or multiple fittings
- Adjustable time delay ensures that lighting is switched off
- Adjustable passive photocell; inhibits switching where natural light is sufficient
- High load contact rating; allows numerous fittings to be switched
- Injection moulded ABS body - impact resistant
- No minimum load requirements
- 3 wire

<b>RU360-01</b>	Recessed/Surface
<b>Diameter (mm):</b>	106
<b>Depth (Surface) (mm):</b>	57
<b>Depth (Recessed) (mm):</b>	66
<b>Cut-out (mm):</b>	84
<b>Weight (kg):</b>	0.24
<b>Box Qty:</b>	<b>10</b>
<b>Detection Area:</b>	360° high sensitivity PIR sensor
<b>Motion Detection Range:</b>	10m diameter at 2.8m
<b>Occupancy Detection Range:</b>	6m diameter at 2.8m
<b>Loading:</b>	Max 600W fluorescent Max 2000W incandescent
<b>Time Settings:</b>	10 seconds to 45 minutes adjustable
<b>Lux Settings:</b>	2-2000lx



Motion Detector, 360° PIR, Surface

- Rear and side entry knockouts, integral cable clamp and large main terminals for 2 x 1.5mm<sup>2</sup> conductors
- Elongated fixing slots; simple to position and fix to surface
- Passive infra red; ensures light is switched on when sensor detects movement of heat, therefore lighting is switched off when the area is vacated
- Injection moulded ABS body - impact resistant
- No minimum load requirements
- 3 wire

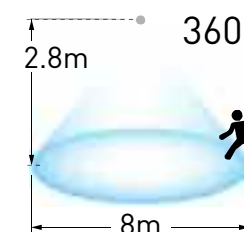
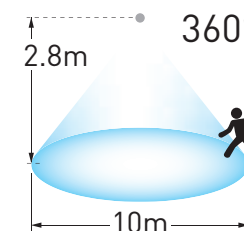
<b>R360N-01</b>	
<b>Diameter (mm):</b>	110
<b>Depth (mm):</b>	40
<b>Projection (mm):</b>	45
<b>Box Qty:</b>	<b>10</b>
<b>Weight (kg):</b>	0.24
<b>Detection Area:</b>	360°
<b>Motion Detection Range:</b>	10m Diameter At 2.8m
<b>Loading:</b>	Max 300W Fluorescent Max 1000W Incandescent
<b>Time Settings:</b>	10 Seconds To 16 Minutes Adjustable
<b>Lux Settings:</b>	2-2000lx



Motion Detector, 360° PIR, Recessed

- Clear terminal cover, integral clamp and large mains terminals for 2 x 1.5mm<sup>2</sup> 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
- No minimum load requirements
- 3 wire

<b>RR360-01</b>	
<b>Diameter (mm):</b>	75
<b>Depth (mm):</b>	60
<b>Cut-out (mm):</b>	62
<b>Box Qty:</b>	<b>10</b>
<b>Weight (kg):</b>	0.14
<b>Detection Area:</b>	360°
<b>Motion Detection Range:</b>	8m diameter at 2.8m
<b>Loading:</b>	Max 500W fluorescent Max 1000W incandescent
<b>Time Settings:</b>	10 seconds to 16 minutes adjustable
<b>Lux Settings:</b>	2-2000lx





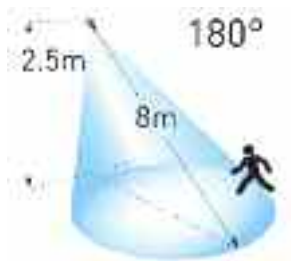
## EXTERNAL PIRS



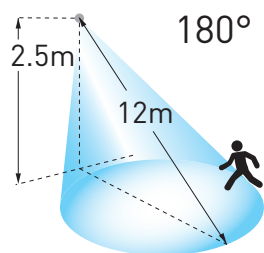
R180



L180



R180

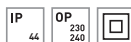


L180

### Motion Detector 180° PIR

- Weatherproof housing
- Injection moulded ABS
- 180° detection
- Minimum load 25W
- Max load 300W fluorescent, 1000W incandescent
- The R180 has a manual override facility, with automatic reset after 8hrs
- L180 is 3 wire
- R180 is 3 wire manual overdrive

	10 seconds	10 seconds
	4 mins	10 mins
	<b>L180B-01</b>	<b>R180-01</b>
	<b>L180B-04</b>	<b>R180-04</b>
<b>Total Power (W):</b>	1000	1000
<b>Depth (mm):</b>	95	130
<b>Width (mm):</b>	85	75
<b>Height (mm):</b>	75	85
<b>Box Qty:</b>	<b>10</b>	<b>30</b>
<b>Weight (kg):</b>	0.26kg	0.36



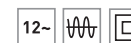
## DIMMABLE ELECTRONIC TRANSFORMERS FOR 12V DOWNLIGHTS

## 12V Dimmable Electronic Transformers

- Complete with flex and plug
- 12V power supply for MR16 lamps
- Pre-heat soft-start function for input voltage surge protection
- Integral in-line fuse to ensure complete safety at end of life
- Thermal fuse – ensures safe failure if in excess of ambient temperature
- Radio interference suppression in accordance with EN55015
- Safety & performance in accordance with EN61347-22
- Large mains terminals for loop in and loop out suitable 2 x 1.5 T&E cables. In case of short circuit will automatically reset when fault is removed



RM70DNAU	70W
Total Power [W]:	70/105
Width (mm):	45
Length (mm):	120
Box Qty:	30
Weight (kg):	0.13
IP:	20



## LED DRIVERS

## 12VDC 30W Constant Voltage Electronic LED Driver

- LED Driver for 12V Fittings
- Power Supply 90-260V AC
- Output Short Circuit Protection
- Thermal Protection

<b>R1230DVR</b>	
<b>Total Power (W):</b>	30
<b>Depth (mm):</b>	20
<b>Length (mm):</b>	130
<b>Width (mm):</b>	40
<b>Box Qty:</b>	1
<b>Weight (kg):</b>	0.1







PRINTING WAREHOUSE - NEW SOUTH WALES

**066**TECHNICAL  
INFORMATION**072**

CASE STUDIES

**078**

INDICES

**080**

CONTACT US



**ROBUS** //////////////////////////////////// **ROBUSLED.COM.AU / T (07) 3893 1488 / F (07) 3893 1499**

ROBUSLED.COM.AU / T (07) 3893 1488 / F (07) 3893 1499 // ROBUS



SYMBOLS

Below is an explanation of the icons that appear throughout this catalogue.



Indicates x years warranty



Lumens per Watt



Energy Saving



Fire Rated Symbol



**Ingress Protection** against dust and water (see technical information).



**Lux Level** Level of lux at 1m



**Operating Voltage – 12V**



**Operating Voltage – 230V/12V** Step down transformer included.



**Operating Voltage – 230V / 240V**



**Operating Voltage – 12dc**



**Pull Switch**



**Integral Switch**



**Dimmable with leading or trailing edge dimmers**



**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**

SYMBOLS



**Bathroom Zone 1** Suitable for use in indicated bathroom zone \*



**Bathroom Zone 2** Suitable for use in indicated bathroom zone \*



**Rotation Angle**



**Adjustment Angle (tilt)**



**High Frequency Electronic Control Gear included**



**Photometrics available**

**Colour Abbreviations**

- 01 White
- 02 Brass
- 03 Chrome
- 04 Black
- 07 Blue
- 11 Amber
- 13 Brushed Chrome
- 15 Satin Silver
- 16 Stainless Steel
- 23 Aluminium
- 24 Grey
- 27 2700k (Lamp Temperature)
- 40 4000k (Lamp Temperature)
- CW Cool White LEDs
- WW Warm White LEDs
- RGB Colour Changing LEDs



**C-Tick**

All ROBUS products carry the C-Tick mark. The C-Tick mark is a certification trademark registered to AC MA in Australia under the Trade Marks Act 1995 and to RSM in New Zealand under section 47 of the NZ Trade Marks Act. The mark is only to be used in accordance with conditions laid down by ACMA and RSM.(89/336/EEC as amended 92/31/EEC)

**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.



# 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.

Top tier LED manufacturers include Cree, Luxeon, Nichia, Osram, Samsung, Seoul, and Sharp.

## Question 2: What lifetime is claimed for the product and what is the warranty period?

Lifetime claims can be greatly exaggerated: for example >50,000 hours is unlikely. Lifetime and warranty period 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.

## Question 3: Are full photometric files (.LDT, .IES, etc.) available for the product?

Lumen output and efficacy claims can also be greatly exaggerated: for example >80 lm/W is unlikely. 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 software.

## Question 4: What is the colour binning range for the product (e.g. 4000K +/- 5%) and what are the specific colour bins used?

LED products can vary 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 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.

## 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 determined by CRI, and this is important for many illumination applications as it results in how realistic colours appear.

Most internal lighting applications should use CRI of 80 or above.

## 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.

## 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.





Wesley Linen Services installed 29 ROBUS 200 Watt high bay induction lamps in their factory located at Darra, Queensland.

The decision to purchase induction lighting followed testing of LED, metal halide and induction trial units in various locations throughout the plant.

In conjunction with ROBUS State Manager for Queensland, Neil Jones, a suitable lighting plan was developed and payback calculations provided.

Installation was straight forward with each lamp pre wired for local supply voltage.

The advantages of this lamp over other technology for Wesley Linen Service is that there is an extensive operating life with little drop off in light intensity over the life of the lamp.

This translates to consistent light output exceeding Australian Standards for processing work and considerable savings with no re-lamping required for a long period. Labour savings are also expected as a result of minimal maintenance activity.

**PROJECT** Induction Highbay Retrofit

“The advantages of this lamp over other technology, is that there is an extensive operating life with little drop off in light intensity over the life of the lamp.”

Peter Matthews, Manager, Wesley Linen Services



## HAT 200W Induction Highbay

## R200IHBB-23

- An excellent alternative to LED technology for Metal Halide 400W replacements
- Tried & Tested
- 50% energy saving
- High quality light output for a better working environment
- 100,000 hr average lamp life, maintenance free
- Instant start, suitable as part of intelligent energy management
- Wide operating temperature range -25°C to +45°C
- Extreme high frequency, no strobe effects
- Low lamp disposal costs
- Low glare
- CRI >80
- Efficacy >75 lmW
- High Photopic Efficacy >150lmW
- Universal ballast

## ENERGY SAVING





## CENTRO GALLERIA - WESTERN AUSTRALIA



Centro Galleria, a large shopping centre in Morey, Western Australia replaced standard light fittings with long term energy saving lighting solutions from Robus, reducing both energy and maintenance costs.

To that end, in the main shopping area, seven ROBUS 14W IP44 Downlights were installed underneath the centre's escalators that provided an 80% energy saving compared to the low voltage Halogen Downlights that were previously installed. To ensure energy would not be wasted in service areas where lights were being left on all the time, 20 ROBUS Universal 360° PIRs were placed in store rooms and air conditioning plant rooms. 14 x 24W ROBUS Vulcan Corrosion Proof fittings were placed in the chiller deck and in the parking garage to replace the previous T5 & T8 fluorescent fittings, generating a further 42% energy saving compared to the standard fluorescent fittings. In the exterior car park, 20 ROBUS 80W LED Floodlights were used to replace 150W Metal Halide fittings providing a 45% reduction in energy costs.

Because these LED light fittings have average lamp lives of between 30,000 and 50,000 hours, maintenance costs of the shopping centre are also significantly reduced.

## CASE STUDIES

## CENTRO GALLERIA - WESTERN AUSTRALIA



## 80W LED Flood Light

R80LEDF-24



## IP44 10W Dimmable LED Downlight

R10WDLWW-01



## UNIVERSAL 360° PIR

RU360-01



VULCAN 2 x 24W LED Corrosion Proof fitting

R224LEDCP-01

## ENERGY SAVING



## YARRAWONGA MULWALA GOLF CLUB RESORT



With soaring energy costs and a need to reduce spending, Yarrowonga Golf Club and Resort needed to lower their expenditure and the first step was a complete halogen retrofit. The decision was taken to replace all 423 x 35W and 50W Halogen Fittings with the ROBUS 10W LEDChroic due to its proven performance, reliability and cost saving.

The ROBUS 10W LEDChroic has a 50,000 hour lamp life and lasts 20 times longer than the Halogen fittings which resulted in a 79% reduction in power consumption and an annual saving of over \$45,000 in energy costs, lamp replacements costs and air conditioning compensation. Yarrawonga Mulwala Golf Club Resort's investment to install the ROBUS LED Downlight in the foyer, restaurant and bar was paid back within two months.

“It was very important to the client for the light to replicate the look and feel of dichroic- no other downlight on the market does this as well as the ROBUS 10W LEDChroic”

## YARRAWONGA MULWALA GOLF CLUB RESORT



## 10W LED Downlight Module, LEDCHROIC

LEDD/L1030K60DHWHT  
LEDD/L1030K60DSLV  
LEDD/L1050K60DHWHT  
LEDD/L1050K60DSLV

WW White  
WW B Chrome  
CW White  
CW B Chrome

- 1 x 10W Sharp LED Module delivering light output similar to 50W GU10 lamp
- LEDCHROIC lens technology - giving similar light output as standard halogen dichroic lamps
- 60° beam angle
- Adjustable head - white and brushed chrome
- Fully dimmable
- Quick "push fix" for easy connection to the module
- Average life of 50,000 hours
- Complete with LED Driver, Flex and Plug

## ENERGY SAVING



INDICES

L180B	62	R3IN13WAW	41
LEDD/L1030K60DHWHT		R3LED10S	50
24		R3LED5S	50
LEDD/L1030K60DSL		R50LEDF	42
24		R50WDL	22
LEDD/L1050K60DHWHT		R50WDLWW	22
24		R6060LED-40	8
LEDD/L1050K60DSL		R6060SMKD-01	9
24		R70WDL	22
R10FSA-24	43	R70WDLWW	22
R10LEDF	42	R80LEDF	42
R10LEDFPIR	43	R8T8LED-CW	55
R10WDL	20	R91RGB1	46
R10WDLWW	20	R91RGBK	46
R11GU10CFL	56	R92LEDCW	18
R1230DVR	63	REXTRGB	51
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R1350HSD	32	RSUSLEDP	9
R14WDL	21	RTRIMR1014WSQ	21
R14WDLWW	21	RU360-01	60
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R180	62	RUN1218+226AU	25
R180LEDCAU-40	12		
R183-RGB	47		
R18AGSL	39		
R18WLEDCWAW	14		
R200IHBB-23	13		
R20T8LED-CW	55		
R20WDL	22		
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R210MMSPIKE	43		
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R235CFL	38		
R23LEDUD	38		
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R24WLEDCWAW	14		
R250RGU	54		
R2CLED240	28		
R2IN13WAW	40		
R3011LED240	29		
R30LEDF	42		
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R360N-01	61		
R36LEDAU-01	18		
R38LEDCWAW-01	19		

NOTES



SALES ORDER PLACEMENT & GENERAL ENQUIRIES

**Tel:** +61 7 389 31488  
**Fax:** +61 7 389 31499  
**Email:** info@robused.com.au

WEBSITE

Visit our website for up to date news, new product information, PDF versions of our product brochures and much more. [www.robused.com.au](http://www.robused.com.au)

OFFICES

**LED Group, ROBUS (Australia Office)**  
 59 Luke Street,  
 Hemmant QLD 4174  
 Australia  
**Tel:** +61 7 389 31488  
**Fax:** +61 7 389 31499

**LED Group (Head Office)**  
 Western Retail Park  
 Nangor Road  
 Dublin 12  
 Ireland  
**Tel:** +353 1 709 9000  
**Fax:** +353 1 709 9060

**LED Group (UK Office)**  
 Bracknell Enterprise & Innovation Hub  
 Ocean House  
 12th Floor, The Ring  
 Bracknell  
 Berkshire  
 RG12 1AX  
 United Kingdom  
**Tel:** 0800 973 220  
**Fax:** 0800 973 221

**LED Group (Benelux Office)**  
 Korte Stadionweg 106  
 3077 ME  
 Rotterdam  
 The Netherlands  
**Tel:** +31 629484809

**LED Group (Dubai Office)**  
 PO Box 127987  
 Dubai  
 United Arab Emirates  
**Tel:** +971 (0) 4880 1106  
**Fax:** +971 (0) 4880 4418

**Email:** info@robused.com.au  
[www.robused.com.au](http://www.robused.com.au)