

The title 'LIGHTING CATALOGUE' is displayed in a large, white, bold, sans-serif font. It is set against a dark blue background that features a grid of three squares on the left side. The background of the entire page is a photograph of a modern glass skyscraper at night, with its windows illuminated from within, creating a grid of light patterns.

## YOUR LIGHTING IS OUR BUSINESS

Whatever you want to achieve, Clipsal has a solution for all residential, commercial and industrial lighting applications. Combining both functionality and stylish designs into every product, Clipsal's lighting catalogue **makes the choice easy.**

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## INTRODUCTION

### YOUR LIGHTING IS OUR BUSINESS

Clipsal offers an extensive lighting range with a solution for all residential, commercial and industrial applications. Combining both functionality and style into every product, Clipsal's lighting range makes the choice easy.

Clipsal's comprehensive lighting range includes:

**Commercial lighting:** battens, diffused battens, T Bar recessed, plaster recessed and emergency lighting.

**Industrial:** high bays, low bays, floodlights and IP65 weatherproof.

**Residential:** IRC downlights, CFL and LED lighting.

Energy efficient lighting options are a core part of our range. The Clipsal lighting range focuses on energy savings by combining the latest in lighting technology with electronic controls that will optimise luminaire performance and reduce energy consumption and operating costs.

So no matter what your lighting requirements, Clipsal has you covered with a reliable, lighting solution.



#### Please Note

- *Ensure you have used the correct colour code when ordering your products.*
- *Product design and colour may vary from images provided.*
- *All photography is for illustration purposes only.*





## ENERGY SAVING

Every day our world demands more; more power, more comfort, more reliability and control. In today's environment, the world requires the most energy efficient means possible, more for less. The leading electrical company in Australia, Clipsal, has long pioneered energy efficient solutions and products to enhance your home, office or building and save you money.

With Clipsal there is an opportunity to make the most of your energy, minimise your energy bills and still enjoy what technology offers. Please consider our green solutions when deciding on which products suits your needs.

For energy efficient products look for this symbol



## ENERGY SAVING

### LIGHTING STRATEGIES

Lighting plays a very important part in the home, office or building and the correct lighting needs to be chosen to suit various applications within these environments. Clipsal offers a comprehensive lighting range and advice on the correct use of different lamp types to create genuine energy savings. Our range includes fluorescent lighting, floodlights, high and low bays, downlights, LED lighting and exit and emergency lights. So no matter what your lighting requirements, Clipsal has you covered with a reliable, energy efficient lighting solution.

### KNOW YOUR LIGHTING

#### LED LIGHTING

LED lighting is the most energy efficient and longest lasting lighting product on the market today. LED lighting is ideal for accent lighting in cabinets, under kitchen benches, pathways, staircases, corridors and stairwells. They're also a great energy saving option for bedrooms, living rooms, home theatres and dining rooms, and in most cases replace halogen lighting in these applications.

L681WH



L881WH



L506WH



L960W/12WH



#### LINEAR AND FLUORESCENT LIGHTING

Compact fluorescent lamps or CFLs are low energy, long life lamps. They are ideal for areas that require lighting for long periods and are infrequently switched; such as outside lighting, kitchens, studies, living areas, car parks, office developments, shopping centres, factories and public buildings. Fluorescent lamps provide excellent light output and are a great choice for general lighting within the home or commercial building.

CF22



WDB114



WP114



TB236EL



741/11WH



204WH



#### HALOGEN LIGHTING

Modern halogen IRC lamps are 30% more energy efficient than their predecessor with the same light output and long lamp life. Halogen lamps are dimmable and a great option to create mood lighting. They're ideal for living areas, bedrooms, home theatres, showrooms and boardrooms. Halogen lighting produces a warm comfortable light with a sparkle effect not found with other lighting types.

DLKLRG/FP



DLKLRF/FP



992SS







## FLUORESCENT

Clipsal's fluorescent lighting range is ideal for any application where you require constant lighting for long periods of time, while consuming a minimal amount of energy.

Fluorescent lighting is still the most popular form of lighting in the world and with extensive developments in lamp technology and control gear it will continue to be the mainstream lighting offer for years to come.

Clipsal's fluorescent lighting range is available with T8, T5, PL or CFL lamps and can be provided with various dimming solutions to suit your project requirements. Should you require analogue, digital, DSI or DALI lighting control contact your nearest Clipsal Representative.



# FLUORESCENT BATTENS

## Applications

Suitable for residential commercial and industrial applications, this range will provide optimum lighting for the lowest investment and running cost. Electronic high frequency models offer substantial energy savings. Surface mounted, conduit or chain mounted available to suit the project requirement.

## Features

- Body formed in steel white powder coating
- Polycarbonate end caps and lamp holders
- Colour 840 lamps included
- Range of reflectors and wire guards to suit
- End-to-end mounting possible with pre-formed cable entry punch outs
- Large terminal blocks for looping applications
- Control options available including DSI and DALI



Electronic ballasts are more efficient in converting power used for the lamp. This reduces losses and increases efficiency by 15%-20% over traditional magnetic ballasts.

## NARROW BARE BATTENS (ELECTRONIC) T8 LAMPS

Cat No.	Description	LxWxH
<b>BB118EL</b>	1x18W	620 x 60 x 98mm
<b>BB218EL</b>	2x18W	620 x 115 x 108mm
<b>BB130EL</b>	1x30W	920 x 55 x 98mm
<b>BB136EL</b>	1x36W	1230 x 60 x 98mm
<b>BB236EL</b>	2x36W	1230 x 115 x 108mm
<b>BB158EL</b>	1x58W	1530 x 60 x 98mm
<b>BB258EL</b>	2x58W	1530 x 115 x 108mm



## NARROW BARE BATTENS T8 LAMPS

Cat No.	Description	LxWxH
<b>BB118</b>	1x18W	620 x 55 x 98mm
<b>BB218</b>	2x18W	620 x 102 x 108mm
<b>BB130</b>	1x30W	920 x 55 x 98mm
<b>BB136</b>	1x36W	1230 x 55 x 98mm
<b>BB236</b>	2x36W	1230 x 102 x 85mm
<b>BB158</b>	1x58W	1530 x 55 x 98mm
<b>BB258</b>	2x58W	1530 x 102 x 108mm



## NARROW BARE BATTENS (EMERGENCY) T8 LAMPS

Cat No.	Description	LxWxH
<b>BB118EM</b>	1x18W	620 x 60 x 98mm
<b>BB218EM</b>	2x18W	620 x 115 x 108mm
<b>BB136EM</b>	1x36W	1230 x 60 x 98mm
<b>BB236EM</b>	2x36W	1230 x 115 x 108mm



# FLUORESCENT BATTENS

## WIDE PROJECT BATTENS T8 LAMPS

Cat No.	Description	LxWxH
<b>WB118</b>	1x18W	620 x 65 x 80mm
<b>WB218</b>	2x18W	620 x 120 x 80mm
<b>WB136</b>	1x36W	1230 x 65 x 80mm
<b>WB236</b>	2x36W	1230 x 120 x 80mm
<b>WB158</b>	1x58W	1530 x 65 x 80mm
<b>WB258</b>	2x58W	1530 x 120 x 80mm



## WIDE PROJECT BATTENS T5 LAMPS

Cat No.	Description	LxWxH
<b>WB114T5</b>	1x14W	570 x 65 x 70mm
<b>WB214T5</b>	2x14W	570 x 120 x 70mm
<b>WB128T5</b>	1x28W	1170 x 65 x 70mm
<b>WB228T5</b>	2x28W	1170 x 120 x 70mm



## WIDE PROJECT BATTENS (ELECTRONIC) T8 LAMPS

Cat No.	Description	LxWxH
<b>WB118EL</b>	1x18W	620 x 65 x 80mm
<b>WB218EL</b>	2x18W	620 x 120 x 80mm
<b>WB136EL</b>	1x36W	1230 x 65 x 80mm
<b>WB236EL</b>	2x36W	1230 x 120 x 80mm
<b>WB158EL</b>	1x58W	1530 x 65 x 80mm
<b>WB258EL</b>	2x58W	1530 x 120 x 80mm



## WIDE PROJECT BATTENS (EMERGENCY) T8 LAMPS

Cat No.	Description	LxWxH
<b>WB118EM</b>	1x18W	620 x 65 x 80mm
<b>WB218EM</b>	2x18W	620 x 120 x 80mm
<b>WB136EM</b>	1x36W	1230 x 65 x 80mm
<b>WB236EM</b>	2x36W	1230 x 120 x 80mm





# FLUORESCENT BATTENS

## NARROW DIFFUSED BATTENS T8 LAMPS

Cat No.	Description	LxWxH
<b>DB118</b>	1x18W	620 x 60 x 98mm
<b>DB218</b>	2x18W	620 x 115 x 108mm
<b>DB136</b>	1x36W	1230 x 60 x 98mm
<b>DB236</b>	2x36W	1230 x 115 x 108mm



## NARROW DIFFUSED LINEAR BATTENS T8 LAMPS

Cat No.	Description	LxWxH
<b>DB118FREL</b>	1x18W	620 x 60 x 98mm
<b>DB218FREL</b>	2x18W	620 x 115 x 108mm
<b>DB136FREL</b>	1x36W	1230 x 60 x 98mm
<b>DB236FREL</b>	2x36W	1230 x 115 x 108mm



## NARROW DIFFUSED BATTENS (ELECTRONIC) T8 LAMPS

Cat No.	Description	LxWxH
<b>DB118EL</b>	1x18W	620 x 60 x 98mm
<b>DB218EL</b>	2x18W	620 x 115 x 108mm
<b>DB136EL</b>	1x36W	1230 x 60 x 98mm
<b>DB236EL</b>	2x36W	1230 x 115 x 108mm
<b>DB158EL</b>	1x58W	1530 x 60 x 98mm
<b>DB258EL</b>	2x58W	1530 x 115 x 108mm



## NARROW DIFFUSED BATTENS (EMERGENCY) T8 LAMPS

Cat No.	Description	LxWxH
<b>DB118EM</b>	1x18W	620 x 60 x 98mm
<b>DB218EM</b>	2x18W	620 x 115 x 108mm
<b>DB136EM</b>	1x36W	1230 x 60 x 98mm
<b>DB236EM</b>	2x36W	1230 x 115 x 108mm



# FLUORESCENT BATTENS

## WIDE PROJECT DIFFUSED BATTENS T8 LAMPS

Cat No.	Description	LxWxH
<b>WDB118</b>	1x18W	620 x 70 x 95mm
<b>WDB218</b>	2x18W	620 x 125 x 95mm
<b>WDB136</b>	1x36W	1230 x 70 x 95mm
<b>WDB236</b>	2x36W	1230 x 125 x 95mm
<b>WDB158</b>	1x58W	1530 x 70 x 95mm
<b>WDB258</b>	2x58W	1530 x 125 x 95mm



## WIDE PROJECT DIFFUSED BATTENS (ELECTRONIC) T8 LAMPS

Cat No.	Description	LxWxH
<b>WDB118EL</b>	1x18W	620 x 60 x 98mm
<b>WDB218EL</b>	2x18W	620 x 115 x 108mm
<b>WDB136EL</b>	1x36W	1230 x 60 x 98mm
<b>WDB236EL</b>	2x36W	1230 x 115 x 108mm
<b>WDB158EL</b>	1x58W	1530 x 60 x 98mm
<b>WDB258EL</b>	2x58W	1530 x 115 x 108mm



## WIDE PROJECT DIFFUSED BATTENS T5 LAMPS

Cat No.	Description	LxWxH
<b>WDB114</b>	1x14W	575 x 70 x 92mm
<b>WDB214</b>	2x14W	575 x 125 x 92mm
<b>WDB128</b>	1x28W	1175 x 70 x 95mm
<b>WDB228</b>	2x28W	1175 x 125 x 95mm



## WIDE PROJECT DIFFUSED BATTENS (EMERGENCY) T8 LAMPS

Cat No.	Description	LxWxH
<b>WDB118EM</b>	1x18W	620 x 60 x 98mm
<b>WDB218EM</b>	2x18W	620 x 115 x 108mm
<b>WDB136EM</b>	1x36W	1230 x 60 x 98mm
<b>WDB236EM</b>	2x36W	1230 x 115 x 108mm



## BATTEN ACCESSORIES

### WIRE GUARD TO SUIT T8 BATTEN

Cat No.	Description	Length
<b>WG118</b>	1x18W	620mm
<b>WG218</b>	2x18W	620mm
<b>WG136</b>	1x36W	1230mm
<b>WG236</b>	2x36W	1230mm



### WIRE GUARD TO SUIT WIDE BODY PROJECT BATTEN - T8

Cat No.	Description	Length
<b>WWG114</b>	1x14W	570mm
<b>WWG214</b>	2x14W	570mm
<b>WWG128</b>	1x128W	1170mm
<b>WWG228</b>	2x228W	1170mm



### WIRE GUARD TO SUIT WIDE BODY PROJECT BATTEN - T8

Cat No.	Description	Length
<b>WWG118</b>	1x18W	620mm
<b>WWG218</b>	2x18W	620mm
<b>WWG136</b>	1x36W	1230mm
<b>WWG236</b>	2x36W	1230mm



### REFLECTORS GENERAL PURPOSE INDUSTRIAL STYLE - OPEN ENDED

Cat No.	Description	Length
<b>BR1/236</b>	To suit BB136 and BB236 T8 narrow batten	615mm





# WEATHERPROOF BATTENS

## Applications

For exterior lighting in commercial applications such as security, factories, warehouses and public buildings, offering excellent illumination in areas subject to the weather.

## Features

- Stainless steel lockable latches supplied as standard
- Polycarbonate base and diffuser
- IP65 rated
- Gear tray 0.5mm powder coated steel
- High quality gasket
- Cable entry and grommets at both ends
- Suspension mounted stainless steel kit supplied
- Large terminal blocks for looping applications
- Control options available in DSI and DALI on request
- Emergency inverters on request

## TYPHOON T5 LAMPS

Cat No.	Description	LxWxH
<b>WP114</b>	1x14W	620 x 70 x 85mm
<b>WP214</b>	2x14W	620 x 110 x 85mm
<b>WP128</b>	1x28W	1220 x 70 x 85mm
<b>WP228</b>	2x28W	1220 x 100 x 85mm
<b>WP135</b>	1x35W	1510 x 70 x 85mm
<b>WP235</b>	2x35W	1510 x 100 x 85mm



## TYPHOON T8 LAMPS

Cat No.	Description	LxWxH
<b>WP118</b>	1x18W	660 x 105 x 110mm
<b>WP218</b>	2x18W	660 x 100 x 110mm
<b>WP136</b>	1x36W	1270 x 105 x 110mm
<b>WP236</b>	2x36W	1270 x 100 x 110mm
<b>WP136EL</b>	1x36W HF electronic	1270 x 105 x 110mm
<b>WP236EL</b>	2x36W HF electronic	1270 x 100 x 110mm
<b>WP136EM</b>	1x36W emergency	1270 x 105 x 110mm
<b>WP236EM</b>	2x36W emergency	1270 x 100 x 110mm



## TROPIC T8 LAMPS (ELECTRONIC) PROJECT

Cat No.	Description	LxWxH
<b>WPT118</b>	1x18W	660 x 105 x 110mm
<b>WPT218</b>	2x18W	660 x 100 x 110mm
<b>WPT136</b>	1x36W	1270 x 105 x 110mm
<b>WPT236</b>	2x36W	1270 x 100 x 110mm



## TOUGHNUT

### Applications

For exterior applications in commercial environments such as security, factories, warehouses and public buildings offering a degree of protection from abuse.

A very plain but functional fitting for warehouse and factory projects.

### Features

- IP65 rated
- Stainless steel screws
- Poly carbonate base and diffuser
- HPF0.9
- Gear tray 0.5mm powder coated steel
- High quality gasket
- Large terminal blocks for looping applications
- Control options available in DSI and DALI on request

### TOUGHNUT - T8

Cat No.	Description	LxWxH
<b>TUFF118</b>	1x18W	630 x 112 x 120mm



# FLUORESCENT T-BARS

## Applications

Suitable in commercial office developments or shopping centres using standard T-bar ceilings. Also suitable for solid plaster ceilings with optional plaster frame kit.

## Features

- Shallow mounting depth for metric T-bar applications
- Sits on top of T-rails
- Complete with 1.5M flex and plug
- Body formed in steel white powder coating
- Colour 840 lamps included
- Pattern 12 acrylic flat sheet (other patterns on request)
- Large terminal blocks for looping applications
- Control options available in DSI and DALI
- Louvre models with specula anodised aluminium parabolic louvres and ribbed anodised cross blades
- Plaster frame kits available to suit.

## PRISMATIC DIFFUSED T8

Cat No.	Description	LxWxH
<b>TB218H</b>	2x18W	600 x 300 x 70mm
<b>TB236H</b>	2x36W	1200 x 300 x 70mm
<b>TB236HEM</b>	2x36W emergency invertors	1200 x 300 x 70mm
<b>TB236EL</b>	2x36W electronic	1200 x 300 x 70mm
<b>TBE236EL</b>	2x36W economy	1200 x 300 x 70mm
<b>TBW236H</b>	2x36W wide	1200 x 600 x 70mm
<b>TBW236EL</b>	2x36W wide electronic	1200 x 600 x 70mm



## PRISMATIC DIFFUSED T5

Cat No.	Description	LxWxH
<b>TB214</b>	2x14W HF electronic	611 x 297 x 65mm
<b>TB228</b>	2x28W HF electronic	1222 x 297 x 65mm



Centra, Plaza Department of Industry,  
Tourism and Resources, Canberra.



## FLUORESCENT T-BARS

### SEMI LOW BRIGHT LOUVRES - T8

Cat No.	Description
<b>SLB218SEL</b>	2x18W HF electronic
<b>SLB236SEL</b>	2x36W HF electronic



### PLASTER FRAMES

Cat No.	Description	LxWxH
<b>PRF218</b>	To suit T-Bar 2x18W	600 x 300
<b>PRF236</b>	To suit T-Bar 2x36W	1200 x 300



#### Ceiling Cut-out

- PRF 218** = 605 x 305mm
- PRF 236** = 1205 x 305mm

# CIRCULAR FLUORESCENT

## Applications

Suitable for both residential and commercial projects for lighting in kitchens, bathrooms, and toilets.

Available in three wattages these fixtures suit most size rooms. A very plain but functional fitting.

## Features

- Matt acrylic formed diffuser
- Ease of lamp replacement diffusers latching
- Large terminal connector with cover
- Steel base plate powder coated white
- Long lamp life
- With cool white lamps
- Wall or ceiling mounting.

## CIRCULAR FLUORESCENT T5

Cat No.	Description	Diameter
<b>CFT522</b>	22W	280mm
<b>CFT532</b>	32W	386mm
<b>CFT540</b>	40W	470mm



## CIRCULAR FLUORESCENT T9

Cat No.	Description	Diameter
<b>CF22</b>	22W	280mm
<b>CF32</b>	32W	386mm
<b>CF40</b>	40W	470mm



## CIRCULAR FLUORESCENT 2D

Cat No.	Description	Diameter
<b>528DWE</b>	28W	432mm
<b>538DWE</b>	38W	432mm



## CIRCULAR FLUORESCENT

### Applications

Suitable for stairwells, walkways and general amenity/ security areas.

### Features

- IP65 rated
- Impact resistant polycarbonate body and diffuser
- Hinged gear tray for ease of installation
- Captive diffuser screws
- Lamp included
- Non dimmable.

### CIRCULAR EXTERIOR FLUORESCENT 2D ROUND

Cat No.	Description	Diameter
<b>BHRC28</b>	28W clear diffuser	285mm
<b>BHRO28</b>	28W opal diffuser	285mm



### CIRCULAR EXTERIOR FLUORESCENT 2D SQUARE

Cat No.	Description	Diameter
<b>BHSC28</b>	28W clear diffuser	255 x 255mm
<b>BHSO28</b>	28W opal diffuser	255 x 255mm







# ENERGY EFFICIENT LUMINAIRES

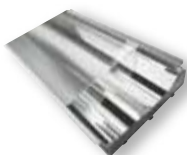
Clipsal's range of KW/2 high performance reflectors are designed specifically to maximise energy efficiency and provide a complete solution for linear commercial lighting.

Our comprehensive range of energy efficient commercial lighting offers a wide range of solutions, for general use through to specific applications. KW/2 is not just a lighting reflector system, it's also a unique patented design that enhances luminaire performance.

The surface of KW/2 reflectors is lined with pure silver and highly polished. This produces a total reflectance of 97%, which provides a better quality light output with substantial energy savings.



*KW/2 reflectors provide up to 50% higher luminaire efficiency and give a spectacular reflectance of 97%. They will halve the number of fluorescent tubes required in an installation, while still meeting performance requirements.*



# ENERGY EFFICIENT LUMINAIRES

## Applications

Energy efficient luminaire, with internal KW/2 optically engineered high performance reflector system allows you to cut your lamp usage in half while still meeting performance requirements.

## Features

- Body formed in white powder coated steel
- High performance KW/2 optically engineered reflector to maximise light output ratio (LOR)
- Non-dimmable constant wattage electronic ballast
- Colour 840 lamps included
- K19 diffuser as standard
- Control option available DALI/DSI
- Emergency inverters on request

## RECESSED T-BAR TROFFERS

Cat No.	Description	LxWxH
TB118M4Y19	KW/2 reflector, 1 x 18W	600 x 300 x 70mm
TB136M4Y19	KW/2 reflector, 1 x 36W	1230 x 300 x 70mm
TB158M4Y19	KW/2 reflector, 1 x 58W	1530 x 300 x 70mm



## Applications

Wide body energy efficient prismatic surface mounted series, with internal KW/2 optically engineered reflector system, provide superior performance from a single lamp source to suit any commercial application.

## Features

- Widebody formed in steel white powder coating
- Extruded & roll formed profile in 100% acrylic
- Sonically welded end caps
- High performance KW/2 optically engineered reflector to maximise light output ratio (LOR)
- Poly carbonate lamp holders
- Non-dimmable constant wattage electronic ballast
- Colour 840 lamps included
- Pre-formed cable entry punch outs
- Large terminal blocks for looping applications
- Control option available DALI/DSI
- Emergency inverters on request

## SURFACE MOUNTED WIDE BODY PRISMATIC LUMINAIRE

Cat No.	Description	LxWxH
SMD118M4	KW/2 reflector, 1 x 18W	648 x 306 x 92mm
SMD136M4	KW/2 reflector, 1 x 36W	1258 x 306 x 92mm
SMD158M4	KW/2 reflector, 1 x 58W	1559 x 306 x 92mm
SMD114M4	KW/2 reflector, 1 x 14W	605 x 306 x 92mm
SMD128M4	KW/2 reflector, 1 x 28W	1205 x 306 x 92mm
SMD154M4	KW/2 reflector, 1 x 54W	1205 x 306 x 92mm

# ENERGY EFFICIENT LUMINAIRES

## Applications

Wide body energy efficient prismatic diffused batten series, with internal KW/2 optically engineered reflector system, provide superior performance from a single lamp source to suit any commercial application.

## Features

- Wide body formed in white powder coating
- High performance KW/2 optically engineered reflector to maximise light output ratio (LOR)
- Poly carbonate end caps and lamp holders
- Non-dimmable constant wattage electronic ballast
- Colour 840 lamps included
- End to end mounting
- Pre-formed cable entry punch outs
- Large terminal blocks for looping applications
- Control option available DALI/DSI
- Emergency inverters on request

## Applications

Wide body energy efficient wire guarded series, with internal KW/2 optically engineered reflector system, provide superior performance from a single lamp source to suit any commercial application.

## Features

- Wide body formed in white powder coated steel
- High performance KW/2 optically engineered reflector to maximise light output ratio (LOR)
- Polycarbonate end caps and lamp holders
- Non-dimmable constant wattage electronic ballast
- Colour 840 lamps included
- Supplied complete with wire guards
- End to end mounting
- Preformed cable entry punch outs
- Large terminal blocks for looping applications
- Control option available DALI/DSI
- Emergency inverters on request

## DIFFUSED BATTENS – WIDE BODY

Cat No.	Description	LxWxH
WDB118M4	KW/2 reflector, 1 x 18W	620 x 70 x 95mm
WDB136M4	KW/2 reflector, 1 x 36W	1230 x 70 x 95mm
WDB158M4	KW/2 reflector, 1 x 58W	1530 x 70 x 95mm

## WIRE GUARDED BATTENS – WIDE BODY

Cat No.	Description	LxWxH
WBWG118M4	KW/2 reflector, 1 x 18W	618 x 69 x 93mm
WBWG136M4	KW/2 reflector, 1 x 36W	1227 x 69 x 93mm
WBWG158M4	KW/2 reflector, 1 x 58W	1528 x 69 x 93mm

## Applications

A range of recessed clean room troffers with a high build quality for maximum protection are available. Fittings are front access and dust proof, assisting to maintain a dust free environment.

## Features

- Shallow mounting depth
- IP65 (below) / IP54 (from above)
- Simple to open and close front frame
- Designed so that particles can not accumulate on surfaces
- Non-dimmable constant wattage electronic ballast
- K19 diffuser as standard
- Colour 840 lamps included
- Control option available DALI/DSI

## Applications

A range of surface mount clean room troffers with a high build quality for maximum protection are available. Fittings are front access and dust proof, assisting to maintain a dust free environment.

## Features

- Shallow mounting depth
- IP65 (below) / IP54 (from above)
- Simple to open and close front frame
- Designed so that particles can not accumulate on surfaces
- Non-dimmable constant wattage electronic ballast
- K19 diffuser as standard
- Colour 840 lamps included
- Control option available DALI/DSI

## RECESSED CLEAN ROOM TROFFERS

Cat No.	Description	LxWxH
RC306/114M4	KW/2 reflector, 1 x 14W	300 x 600mm
RC306/118M4	KW/2 reflector, 1 x 18W	300 x 600mm
RC306/128M4	KW/2 reflector, 1 x 28W	300 x 1200mm
RC306/136M4	KW/2 reflector, 1 x 36W	300 x 1200mm

## SURFACE MOUNT CLEAN ROOM TROFFERS

Cat No.	Description	LxWxH
SC306/114M4	KW/2 reflector, 1 x 14W	300 x 600mm
SC306/118M4	KW/2 reflector, 1 x 18W	300 x 600mm
SC306/128M4	KW/2 reflector, 1 x 28W	300 x 1200mm
SC306/136M4	KW/2 reflector, 1 x 36W	300 x 1200mm



# TELSTRA HOUSE CASE STUDY



Telstra House, centrally located on Pirie Street, Adelaide was built in 1987. It is a 24 storey high rise building tenanted by Australia's largest telecommunications company, Telstra Corporation. Telstra House comprises general office accommodation, a call centre and executive office accommodation throughout the building.

## THE PROJECT

At the time of this project Clipsal Energy Solutions (previously trading as Efficient Energy Systems) had already successfully completed a number of high profile energy saving projects for Telstra. It was of no surprise when the Facility Manager of Coffey Environments, environmental consultants for the United Group Services, invited Efficient Energy Systems (EES) to participate in the open tender for the supply and installation of an energy efficient lighting solution. EES was ultimately successful in winning the tender with a lighting solution that promised exceptional energy savings.

## THE CHALLENGE

The tender called for the lighting on 16 floors to be upgraded, representing a total floor area of 13,440 square metres and a total of 2,363 luminaires required upgrading. The existing luminaires were recessed troffers with return air

slots and framed prismatic diffusers at 2.4 metre centres. The luminaires were fitted with 2 x 36W tri-phosphor tubes and low loss magnetic ballasts resulting in a total energy consumption of 84W and lighting power density of 14.6W/m<sup>2</sup>. This arrangement resulted in over illumination of the office space, which caused headaches, complaints and loss of productivity by the building's occupants.

The challenge here was to reduce the overall energy consumption, as well as optimising light output, indoor environmental quality and reliability with the new lighting solution.

## THE SOLUTION

In order to minimise disruption to the existing spatial separation of the light fittings, and reduce project costs, it was decided to upgrade the existing light fittings by retrofitting these with high performance KW/2 full specular optically engineered reflectors. The KW/2 reflector was customised to fit the existing fitting with the lamp centrally placed at the focal point of the reflector producing 20 per cent more downward light than the previous design, while providing more useful light.

The 2 x 36W tri-phosphor tubes and low loss magnetic ballasts were replaced with a single 36W tri-phosphor lamp and professional start electronic ballast, with constant lamp power output. This resulted in energy consumption being reduced by more than 50 per cent to 35W per fitting, with the lighting power density reduced to less than 6.5W/m<sup>2</sup>. In the process the lighting levels were reduced, which stabilised the number of complaints and loss of productivity.

All the lamps were replaced to achieve an even light intensity and colour uniformity throughout the work space, and to reduce future maintenance costs. In addition, lamps, ballasts and packaging removed from this project site were all separately recycled ensuing responsible environmental stewardship.

The installation and commissioning of the new lighting scheme was expertly under-taken by North East Electrical within budget and schedule.

## THE COST SAVINGS

The energy saving as a result of the lighting upgrade was 433,000 kWh per annum, while greenhouse gas emissions were reduced by 424 tonnes with an annual cost saving of \$39,000.

In addition to the energy savings, the lighting levels were uniform throughout, which resulted in an improved indoor environment and operator comfort. Finally, the new lighting scheme met with the requirements of AS/NZ1680 for lighting design and significantly exceeds the BCA benchmarks.

## THE FACTS

Annual energy savings	433,000 kWh
Annual greenhouse gas savings	424 tonnes
Annual energy cost savings	\$39,000



# FLOODLIGHTS

If you require outdoor lighting Clipsal floodlights are perfect for any application where you require a large amount of lighting from one or more light sources. Clipsal's floodlight range comes in two lamp technologies for various floodlighting applications:

## TUNGSTEN

Clipsal's tungsten halogen floodlights use a residential fitting and are suitable for general lighting purposes. The main advantage with tungsten halogen lighting is its ability to provide instant bright light when turned on and does not require a cooling off period before switching on again.

## METAL HALIDE

Clipsal's metal halide floodlights offer the latest in lamp technology using a discharge gas lamp operated by control gear within the floodlight. Metal halide floodlights are ideal for applications where lighting is left on for long periods, while providing great energy saving benefits and long lamp operating hours.



# METAL HALIDE FLOODLIGHTS

## Applications

General area flood lighting applications to suit residential and commercial projects.

The halogen models offer extremely efficient operating costs, long lamp life and good colour rendering.

Most suited to car park, car yard and industrial flood lighting applications.

## Features

- Die-cast body painted black
- Reflector specula aluminium
- Toughened front glass
- Integral control gear (MH models)
- HPF0.9 (MH models only)
- Stirrup nut protection cap (MH models only)
- Easy installation and lamp replacement with drop down glass front plate held with stainless steel or aluminium latches (MH models)
- Asymmetric reflectors (MH models only)
- IP54 and IP65 ratings
- Lamps included.



*Clipsal metal halide floodlight lamps produce 65-115 lumens per watt, making them more efficient than incandescent, fluorescent or mercury vapour.*

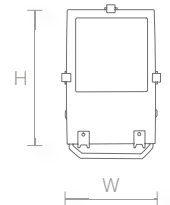
## METAL HALIDE FLOODLIGHTS

Cat No.	Description
<b>FL70</b>	70W metal halide double ended Rx7s
<b>FL150</b>	150W metal halide double ended Rx7s



### Standard Dimensions

**Stand** = 145mm  
**Height** = 395mm (H)  
**Width** = 225mm (W)



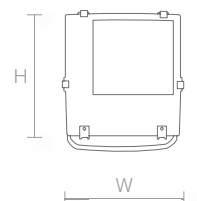
## METAL HALIDE FLOODLIGHTS

Cat No.	Description
<b>FL250</b>	250W metal halide tubular E40
<b>FL400</b>	400W metal halide tubular E40



### Standard Dimensions

**Stand** = 145mm  
**Height** = 440mm (H)  
**Width** = 410mm (W)





# TUNGSTEN HALOGEN FLOODLIGHTS



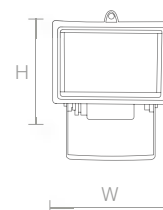
## TUNGSTEN HALOGEN FLOODLIGHT

Cat No.	Description
<b>CHF150</b>	150W halogen Rx7



### Standard Dimensions

**Stand** = 80mm  
**Height** = 95mm (H)  
**Width** = 135mm (W)



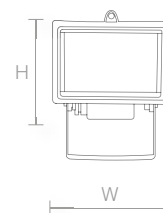
## TUNGSTEN HALOGEN FLOODLIGHT

Cat No.	Description
<b>CHF500</b>	500W halogen Rx7



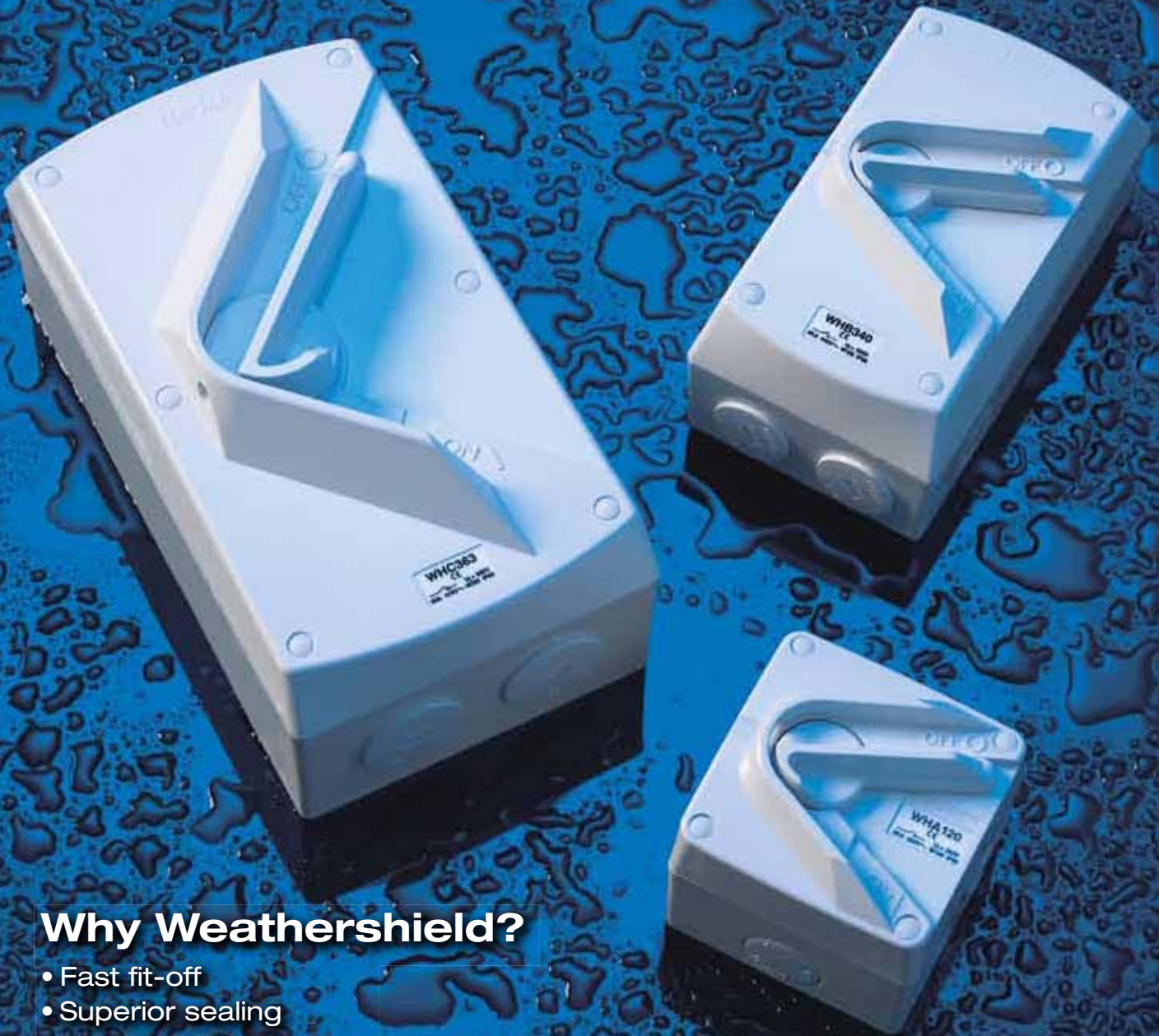
### Standard Dimensions

**Stand** = 115mm  
**Height** = 140mm (H)  
**Width** = 185mm (W)





# Australia's No.1 range of isolators



## Why Weathershield?

- Fast fit-off
- Superior sealing
- Chemical resistant
- Protected rotary lever

For more information contact your Clipsal representative,  
call 1300 2025 25 or visit [clipsal.com](http://clipsal.com)

[clipsal.com](http://clipsal.com)



**CLIPSAL**<sup>®</sup>

by Schneider Electric





## LOW AND HIGH BAYS

Clipsal's high and low bay lighting range is perfect for most commercial applications, providing quality light and superior energy efficiency, which makes them ideal for operating over long periods.

### LOW BAYS

Clipsal low bay lighting is suitable for medium ceiling height industrial applications. Metal halide lamp technology provides optimum colour rendering and energy efficiency. Clipsal low bay lighting is also supplied complete with glass lens and guard making them suitable for all low bay lighting applications.

### HIGH BAYS

Clipsal high bay lights are ideal for general industrial lighting applications and use metal halide lamp technology to provide optimum colour rendering and energy efficiency. Clipsal high bay lighting is available with aluminium reflectors for greater optical control or acrylic reflectors to achieve upward lighting control, providing you with the perfect high bay lighting solution.



## LOW BAYS

### Applications

Suitable for ceiling heights of three to five metres, Clipsals low bays provide high lighting levels from very efficient and excellent colour rendering metal halide lamp technology.

Ideal for low ceiling sites, loading docks and warehouses.

### Features

- Easy mounting system
- Powder coated steel construction
- Control gear mounted on removable tray
- Large terminal connectors
- Wire mesh as standard
- Glass sealed front as standard
- HPF0.9
- Easy access and ventilated gear housing
- Edison screw porcelain lamp holder
- Elliptical coated lamp included
- Uniform lighting distribution for medium ceiling heights.



*Clipsal metal halide low and high bay lamps produce 65-115 lumens per watt, making them more efficient than incandescent, fluorescent or mercury vapour.*

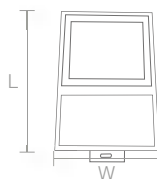
### METAL HALIDE LOW BAY

Cat No.	Description
<b>LBJ150MH</b>	150W, E27, elliptical coated



#### Standard Dimensions

**Width** = 265mm (W)  
**Height** = 125mm (H)  
**Length** = 385mm (L)



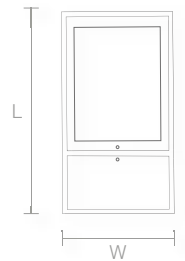
### METAL HALIDE LOW BAY

Cat No.	Description
<b>LB250MH</b>	250W, E40, elliptical coated
<b>LB400MH</b>	400W, E40, elliptical coated



#### Standard Dimensions

**Width** = 330mm (W)  
**Height** = 195mm (H)  
**Length** = 600mm (L)



# HIGH BAYS

## Applications

Suitable for general high bay factory lighting combining performance efficiency and price.

The metal halide lamp is one of the most efficient lighting available, offering excellent colour rendering for factories, loading bays and industrial applications.

## Features

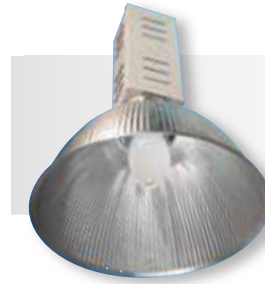
- Reflector ribbed aluminium
- Integral metal halide control gear
- HPF0.9
- Easy access and ventilated gear housing
- Flex and plug supplied and fitted
- E40 porcelain lamp holder
- Elliptical coated lamp included
- Suspension hook supplied
- Uniform lighting distribution for high ceiling heights
- Acrylic models offer vertical and upward lighting
- Acrylic drop lens available (only suitable for acrylic models).

## T5 Models

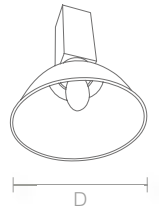
- Instant light output
- High frequency non dimming electronic control gear
- High lumen output, very low operating costs
- Glass diffuser front
- Super pure aluminium reflector system
- Supplied with high output T5 lamps
- Able to operate with PIR or C-Bus control for instant switching.

## METAL HALIDE - ALUMINIUM REFLECTOR

Cat No.	Description	Reflector
<b>HB250MH</b>	250W, E40 elliptical coated	Aluminium
<b>HB400MH</b>	400W, E40 elliptical coated	Aluminium



Standard Dimensions  
Diameter = 600mm (D)

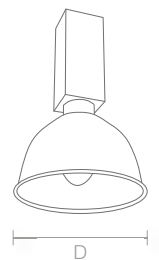


## PROJECT METAL HALIDE

Cat No.	Description	Reflector
<b>HBP400MH</b>	400W	Aluminium



Standard Dimensions  
Diameter = 600mm (D)





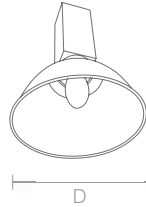
## HIGH BAYS

### METAL HALIDE - ACRYLIC REFLECTOR

Cat No.	Description	Reflector
<b>HBA250MH</b>	250W, E40 elliptical coated	Acrylic
<b>HBA400MH</b>	400W, E40 elliptical coated	Acrylic



Standard Dimensions  
Diameter = 600mm (D)



### HIGH BAY ENERGY SAVING

Cat No.	Description
<b>HB454T5</b>	4 x 54 T5 lamps
<b>HB654T5</b>	6 x 54 T5 lamps





# HIGH BAY ACCESSORIES

## ACRYLIC ACCESSORIES

Cat No.	Description
HBAL	acrylic lens



## STANDARD ACCESSORIES

Cat No.	Description
HBGLSR	glass lens
HBWGSR	wire guard





**“... only 56 Series can do his dirty work.”**



Tony and his workmates manufacture 46,000 litres of fertilizer a day. Their switchgear is turned on and off more than 360 times a week, while continuously exposed to chemicals and the daily wash-down. They can't afford breakdowns, and depend on switchgear that can handle the harshest conditions, which is why they use 56 Series.

56 Series provides true performance in power and is manufactured from premium grade materials, specifically designed to handle the most extreme work environments. If you require switchgear for dirty work in harsh environments, insist on 56 Series.

**56 Series superior features and benefits:**

- 25% stronger socket cover.
- Redesigned socket cover latch – easier to operate.
- New pivot assembly strengthens cover.
- New cover gasket negates the need for #9 caps to maintain IP rating and improves ease of installation.
- Raised ON/OFF indicators – less prone to removal.
- Chemical resistant options to suit different applications.
- Laser printed labelling.

For more information or for a brochure speak to your Clipsal Rep, call 1300 2025 25 or visit [clipsal.com](http://clipsal.com)

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**CLIPSAL**<sup>®</sup>

by Schneider Electric



## EXIT AND EMERGENCY LIGHTING

Clipsal's exit and emergency lighting range is the best option to safely guide people out of buildings, office spaces or department stores. These fixtures use advanced LED lamp technology that provides unsurpassed energy conservation with extended lamp life. Clipsal's exit and emergency lights are easy to install and combined with their modern design, sets them apart from any other exit and emergency lighting on the market.

DALI exit and emergency systems are available as a more advanced and cost effective means of monitoring the evacuation in today's modern building environment (refer to page 66 to read more about our DALI Control Solution). DALI exit and emergency lights are also compatible with the Clipsal C-Bus system.





## EXIT LIGHTING

### Applications

Suitable for all exit applications, the Quicksmart range offers everything in one convenient package. Products can be wall or ceiling mounted.

### Features - EXITSM

- 1.2W LED tube which provides longer life and lower power consumption
- Contains NiMH batteries which are a greener alternative to NiCd batteries which contain the heavy toxic metal, cadmium
- Uses a highly effective switch mode power supply which significantly reduces the power consumption compared to traditional exit sign products
- Supplied with complete set of replaceable decals so it suits almost any application
- An easily detachable bracket which allows for easy maintenance

### Operational Information

#### General

Operational Voltage	220-240V
Operational Frequency	50/60Hz
Power Consumption	3.4W
Viewing Distance	24m

#### Battery

Type	High Temperature Nickel Metal Hydride
Capacity	1200mAh
Voltage	4.8V
Discharge Rating	2 hours



*Clipsal exit lights utilise LED lamp technology that increases service life and reduces energy consumption with high frequency, switch mode power supplies that lower power losses.*

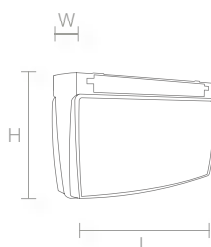
### QUICKSMART

Cat No.	Description
<b>EXITSM</b>	Universal exit
<b>EXITSMDALI</b>	DALI control version



#### Standard Dimensions

**Width** = 80mm (W)  
**Height** = 205mm (H)  
**Length** = 352mm (L)  
**Weight** = 1.25kg  
**Fixing Centre** = 250mm



# EXIT/EMERGENCY LIGHTING

## Applications

Suitable for architectural exit applications. The contemporary design is also environmentally friendly with long LED life and the latest battery technology. It reduces carbon emissions and eliminates heavy metal contamination from the batteries.

## Features - EXITREC

- Slim edgelite design flush with mounting
- Supplied with flex and plug fitted
- 2.3W LED tube which provides longer life and lower power consumption
- Electronic continuous current charging system 3.6V 60mA
- Contains NiMH batteries which are a greener alternative to NiCd batteries which contain the heavy toxic metal, cadmium
- Complies with AS/NZS2293.

## Operational Information

### General

Operational Voltage (V)	220-240V
Operational Frequency (Hz)	50/60
Power Consumption	2.3W
Viewing Distance	24m
Wiring	2 Pin Flex and Plug

### Battery

Type	High Temperature Nickel Metal Hydride
Capacity	1200mAh
Voltage	3.6V
Discharge Rating	2 hours

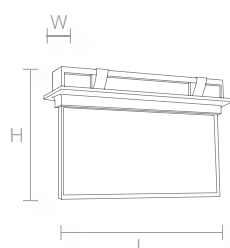
## WAFER (LED)

Cat No.	Description
EXITREC	Recessed exit
EXITRECSM	Surface mount exit
EXITRECDALI	DALI control version



### Standard Dimensions

**Width** = 95mm (W)  
**Height** = 240mm (H)  
**Length** = 348mm (L)  
**Weight** = 0.78kg  
**Cut Out** = 318mm x 75mm  
**Recess Depth** = 60mm





## Applications

With a D40 spacing classification, this emergency fitting is the ideal choice in all commercial projects.

## Features - EMG

- Non maintained model
- Two size reflector dishes in one box (85mm and 140mm)
- Dual rate constant current and charger and high temperature nickel metal hydride batteries
- Complete with flex and plug supplied and fitted
- High output lamp included with vandal resistant dome
- Complies with AS/NZS2293
- LED Emergency light
- Recessed Unit
- Vandal resistance cover
- Highly efficient switch mode power supply for minimum energy use
- D40 Australian Emergency Classification.

## Operational Information

### General

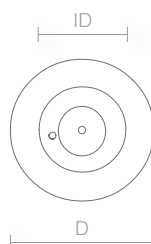
Operational Voltage (V)	220-240V
Operational Frequency (Hz)	50/60
Power Consumption	1.8W
Max. Ambient Temperature	40°C
Wiring	2 Pin Flex and Plug
Mounting Type	Recessed Mounting

### Battery

Type	High Temperature Nickel Metal Hydride
Capacity	2100mAh
Voltage	4.8V
Discharge Rating	2 hours

## SENTINEL

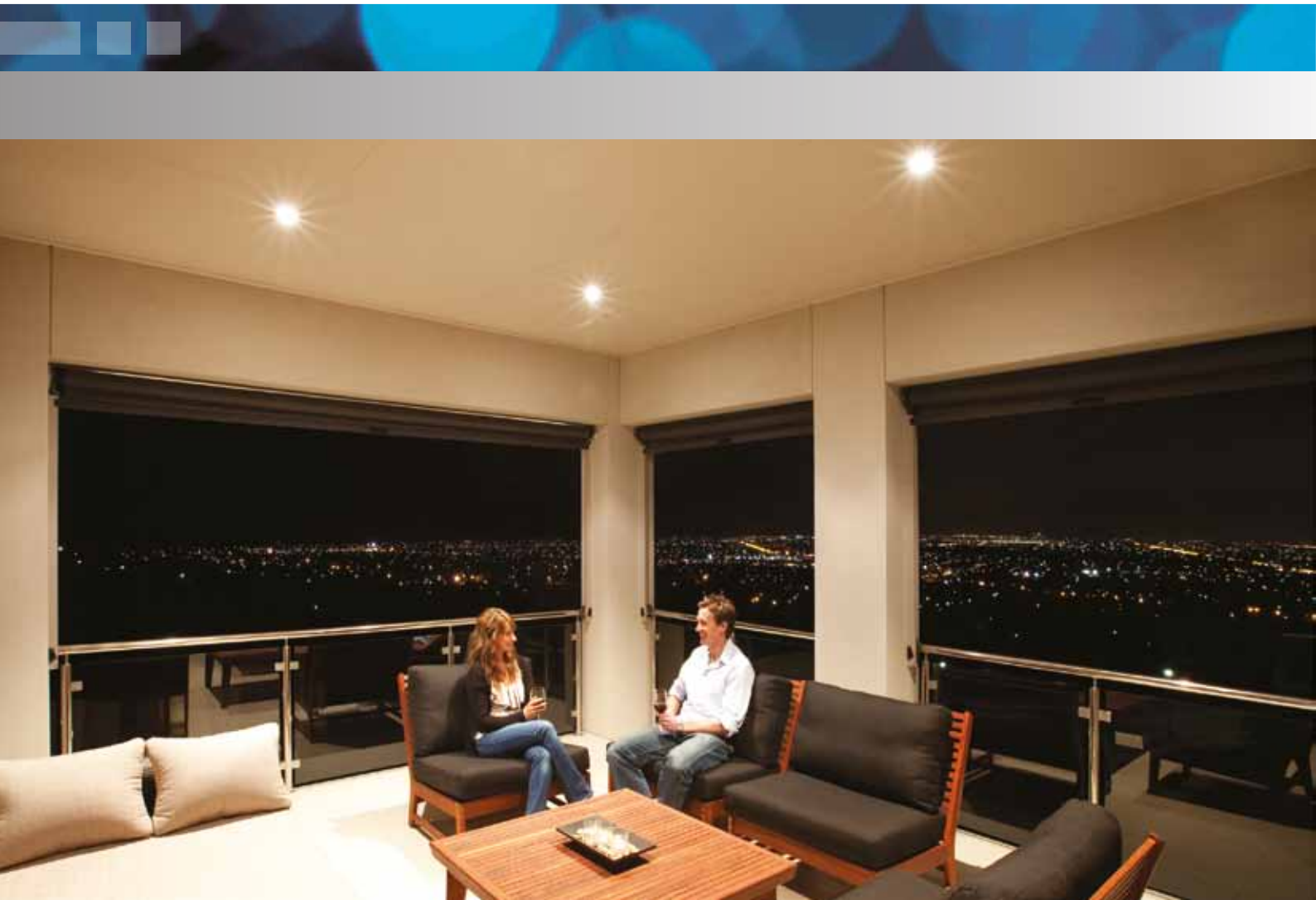
Cat No.	Description
<b>EMG</b>	Emergency single point LED
<b>EMGSM</b>	Surface mount single point LED
<b>EMGDALI</b>	DALI control version



### Standard Dimensions

**Outside Diameter** = 140mm (D)

**Inside Diameter** = 85mm (ID)



## EXTENSIVE RANGE OF DOWNLIGHTS

Downlights are now the most popular way to shed light for many applications. An integral part of any well designed interior, downlights not only illuminate a room, but can also be used to create dramatic lighting effects.

Clipsal's extensive downlight range comes in many varieties to allow the user to satisfy their style, economy or responsibility needs. Downlights are available with standard dichroic lamps, with the latest IRC technology and energy saving LEDs or CFLs, providing the options needed to suit any job.



# LED DOWNLIGHT KITS

## Applications

This downlight is perfect for any commercial or residential application. With its low running temperature and low energy consumption these downlights will soon be the preferred choice.

## Features

- 700mA constant current driver included
- Low voltage 17-20V
- 12W - 50,000hr lamp
- >650 lumens for 3000k (warm white)
- >700 lumens for 4500k (cool white)



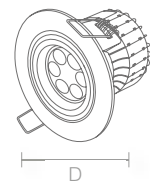
Clipsal LED downlights can save you up to 15% on your energy consumption when compared to CFL equivalent products.

## LED DOWNLIGHT KIT - 12W, 35 DEGREE ROUND GIMBLE

Cat No.	Description
L935C/12WH	Cool white lamp, white
L935C/12BC	Cool white lamp, brushed chrome
L935W/12WH	Warm white lamp, white
L935W/12BC	Warm white lamp, brushed chrome



Standard Dimensions
<b>Cutout Diameter</b> = 92mm
<b>Overall Diameter</b> = 100mm (D)
<b>Recess Depth</b> = 76.5mm
<b>Lamp Type</b> = 12W LED

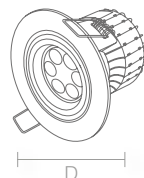


## LED DOWNLIGHT KIT - 12W, 60 DEGREE ROUND GIMBLE

Cat No.	Description
L960C/12WH	Cool white lamp, white
L960C/12BC	Cool white lamp, brushed chrome
L960W/12WH	Warm white lamp, white
L960W/12BC	Warm white lamp, brushed chrome



Standard Dimensions
<b>Cutout Diameter</b> = 92mm
<b>Overall Diameter</b> = 100mm (D)
<b>Recess Depth</b> = 76.5mm
<b>Lamp Type</b> = 12W LED



## \*LED DOWNLIGHT - 70 DEGREE ROUND FIXED

Cat No.	Description
L970H4C/11WH	11W, cool white lamp, white
L970H4W/11WH	11W, warm white lamp, white
L970H5C/14WH	14W, cool white lamp, white
L970H5W/14WH	14W, warm white lamp, white
L970H6C/21WH	21W, cool white lamp, white
L970H6W/21WH	21W, warm white lamp, white

\*To be released



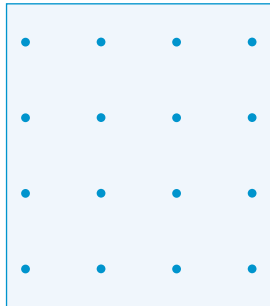
Standard Dimensions - 11W
<b>Cutout Diameter</b> = 107mm
<b>Overall Diameter</b> = 119mm
<b>Recess Depth</b> = 107mm

Standard Dimensions - 14W
<b>Cutout Diameter</b> = 120mm
<b>Overall Diameter</b> = 143mm
<b>Recess Depth</b> = 95mm

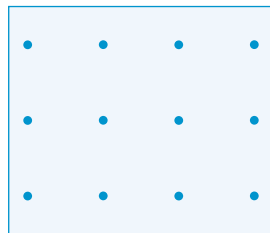
Standard Dimensions - 21W
<b>Cutout Diameter</b> = 156mm
<b>Overall Diameter</b> = 168mm
<b>Recess Depth</b> = 95mm

## HOW DOES THE CLIPSAL LED AND 13W COMPACT FLUORESCENT LAMP (CFL) COMPARE AGAINST A 50W HALOGEN DICHROIC?

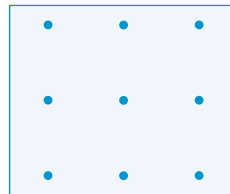
Example of proper spacing requirements of light fittings to ensure satisfactory luminescence. Diagrams illustrate the number of downlights per square metre of floor area.



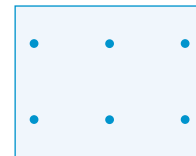
Room A



Room B



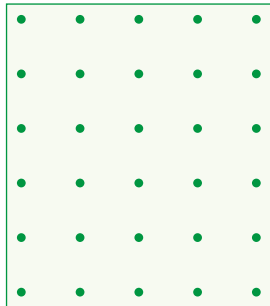
Room C



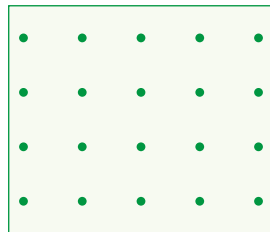
Room D



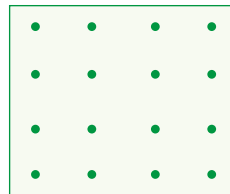
Room E



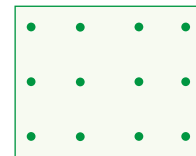
Room A



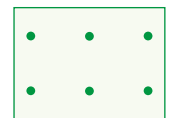
Room B



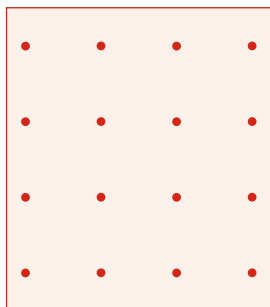
Room C



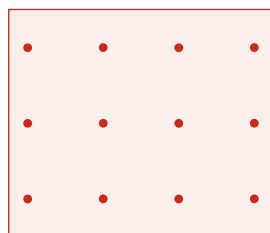
Room D



Room E



Room A



Room B



Room C



Room D



Room E

Summary 12W LED (700 lumens 60 deg)			
Room	Label	Area M <sup>2</sup>	Total Watts
Room A	7 x 8 x 2.4m (12w LED)	56	284
Room B	6 x 7 x 2.4m (12w LED)	42	227.2
Room C	5 x 6 x 2.4m (12w LED)	30	170.4
Room D	4 x 5 x 2.4m (12w LED)	20	127.8
Room E	3 x 4 x 2.4m (12w LED)	12	85.2

Summary 50W halogen dichroic (742 lumens 60 deg)			
Room	Label	Area M <sup>2</sup>	Total Watts
Room A	7 x 8 x 2.4m (50w GU10)	56	928
Room B	6 x 7 x 2.4m (50w GU10)	42	696
Room C	5 x 6 x 2.4m (50w GU10)	30	522
Room D	4 x 5 x 2.4m (50w GU10)	20	348
Room E	3 x 4 x 2.4m (50w GU10)	12	232

Summary 13W CFL source (433 lumens 60 deg)			
Room	Label	Area M <sup>2</sup>	Total Watts
Room A	7 x 8 x 2.4m (13w GU10)	56	390
Room B	6 x 7 x 2.4m (13w GU10)	42	260
Room C	5 x 6 x 2.4m (13w GU10)	30	208
Room D	4 x 5 x 2.4m (13w GU10)	20	156
Room E	3 x 4 x 2.4m (13w GU10)	12	78



## COMPACT FLUORESCENT DOWNLIGHTS

### Applications

To suit residential, commercial and retail applications by combining extreme lamp efficiency with long operating lamp hours. Ideal where lamps will be in operation for long periods of time whilst minimising running costs and CO<sub>2</sub> emissions.

### Features

- Very high lumen output CFL lamps
- 40 lumens per watt efficiency
- Special 240V SGU10 lamp holder for electrical safety when relamping
- Life of 10,000hrs (10 times life of standard incandescent lamp)
- Easy fitting with enclosed terminal connector
- Available in 11W and 13W kits (440 lumens and 520 lumen output)
- IP65 is suitable for bathroom and wet area applications.



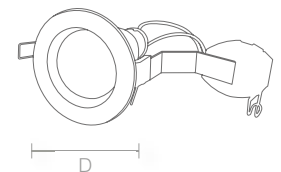
*Clipsal CFL downlights use 70-80% less power than traditional incandescent lamps.*

### COMPACT FLUORESCENT DOWNLIGHTS ROUND FIXED - DIMMABLE

Cat No.	Description
741/11DFPWH	11W, White
741/11DFPSS	11W, Satin Silver
741/11DFPCH	11W, Chrome
741W/11DFPWH	11W, White
741W/11DFPSS	11W, Satin Silver
741W/11DFPCH	11W, Chrome



Standard Dimensions
<b>Cutout Diameter</b> = 85mm
<b>Overall Diameter</b> = 95mm (D)
<b>Recess Depth</b> = 115mm
<b>Lamp Type</b> = SGU10

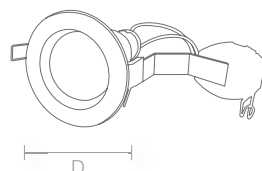


### COMPACT FLUORESCENT DOWNLIGHTS ROUND FIXED

Cat No.	Description
741/13WH	13W, White
741/13SS	13W, Satin Silver
741/13CH	13W, Chrome
741W/13WH	13W, White
741W/13SS	13W, Satin Silver
741W/13CH	13W, Chrome



Standard Dimensions
<b>Cutout Diameter</b> = 85mm
<b>Overall Diameter</b> = 95mm (D)
<b>Recess Depth</b> = 115mm
<b>Lamp Type</b> = SGU10

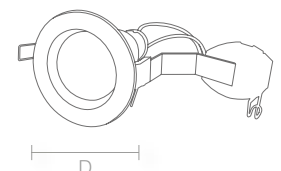


### COMPACT FLUORESCENT DOWNLIGHTS ROUND GIMBLE

Cat No.	Description
742/13WH	13W, White
742/13SS	13W, Satin Silver
742/13CH	13W, Chrome
742W/13WH	13W, White
742W/13SS	13W, Satin Silver
742W/13CH	13W, Chrome



Standard Dimensions
<b>Cutout Diameter</b> = 95mm
<b>Overall Diameter</b> = 105mm (D)
<b>Recess Depth</b> = 115mm
<b>Lamp Type</b> = SGU10



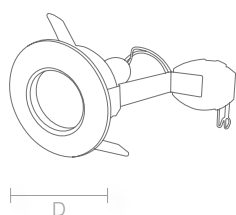
# COMPACT FLUORESCENT DOWNLIGHTS

## COMPACT FLUORESCENT DOWNLIGHTS ROUND GIMBLE - DIMMABLE

Cat No.	Description
742/11DFPWH	11W, White
742/11DFPSS	11W, Satin Silver
742/11DFPCH	11W, Chrome
742W/11DFPWH	11W, White
742W/11DFPSS	11W, Satin Silver
742W/11DFPCH	11W, Chrome



**Standard Dimensions**  
**Cutout Diameter** = 95mm  
**Overall Diameter** = 105mm (D)  
**Recess Depth** = 115mm  
**Lamp Type** = SGU10

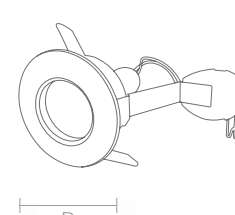


## COMPACT FLUORESCENT DOWNLIGHTS IP65 RATING

Cat No.	Description
743/13WH	13W, White
743/13SS	13W, Satin Silver
743/13CH	13W, Chrome
743W/13WH	13W, White
743W/13SS	13W, Satin Silver
743W/13CH	13W, Chrome



**Standard Dimensions**  
**Cutout Diameter** = 85mm  
**Overall Diameter** = 100mm (D)  
**Recess Depth** = 130mm  
**Lamp Type** = SGU10



## ENCLOSED DOWNLIGHTS

### Applications

A range of covered downlights complete with intumescent material for added protection. In the event of overheating the material will seal the downlight.

### Features

- Integrated intumescent material that seals the downlight and cuts out in the event of overheating
- Supplied with 200mm cable for direct connection to a remote transformer (not included)
- Complete with MR16 35W lamp
- Available in low voltage or mains rated versions
- Fixed or gimble options available
- Can be mounted with only a 25mm clearance.

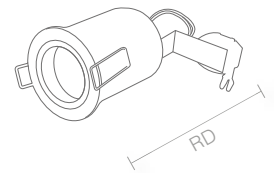
### MAINS VOLTAGE FIXED

Cat No.	Description
<b>981WH</b>	35W, White
<b>981SS</b>	35W, Satin Silver
<b>981CH</b>	35W, Chrome



#### Standard Dimensions

**Cutout Diameter** = 75mm  
**Overall Diameter** = 85mm  
**Recess Depth** = 139mm (RD)



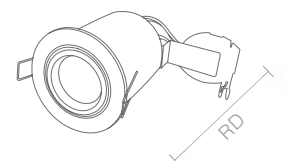
### MAINS VOLTAGE GIMBLE

Cat No.	Description
<b>982WH</b>	35W, White
<b>982SS</b>	35W, Satin Silver
<b>982CH</b>	35W, Chrome



#### Standard Dimensions

**Cutout Diameter** = 85mm  
**Overall Diameter** = 95mm  
**Recess Depth** = 144mm (RD)  
**Horizontal Adjustment** = 30°



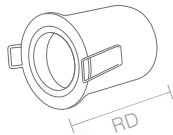
# ENCLOSED LOW VOLTAGE DOWNLIGHTS

## ENCLOSED LOW VOLTAGE ROUND FIXED

Cat No.	Description
991WH	35W, White
991SS	35W, Satin Silver
991CH	35W, Chrome



Standard Dimensions
<b>Cutout Diameter</b> = 75mm
<b>Overall Diameter</b> = 85mm
<b>Recess Depth</b> = 139mm (RD)



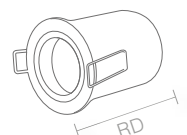
\*Transformer not included.

## ENCLOSED LOW VOLTAGE ROUND GIMBLE

Cat No.	Description
992WH	35W, White
992SS	35W, Satin Silver
992CH	35W, Chrome



Standard Dimensions
<b>Cutout Diameter</b> = 85mm
<b>Overall Diameter</b> = 95mm
<b>Recess Depth</b> = 144mm (RD)
<b>Horizontal Adjustment</b> = 30°



\*Transformer not included.





## ENCLOSED LOW VOLTAGE DOWNLIGHTS

### Applications

A range of enclosed downlights that are supplied in a kit form that includes a transformer with flex and plug.

### Features

- Integrated intumescent material that seals the downlight and cuts out in the event of overheating
- 12V Transformer included - not C-Bus compatible
- Complete with MR16 35W lamp
- Fixed or gimble options
- Can be mounted with only a 25mm clearance.

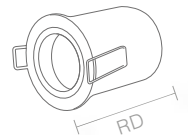
### ENCLOSED LOW VOLTAGE ROUND GIMBLE - WITH TRANSFORMER

Cat No.	Description
992BWH	35W, White
992BSS	35W, Satin Silver
992BCH	35W, Chrome



#### Standard Dimensions

**Cutout Diameter** = 85mm  
**Overall Diameter** = 95mm  
**Recess Depth** = 144mm (RD)  
**Horizontal Adjustment** = 30°



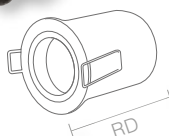
### ENCLOSED LOW VOLTAGE ROUND FIXED - WITH TRANSFORMER

Cat No.	Description
991BWH	35W, White
991BSS	35W, Satin Silver
991BCH	35W, Chrome



#### Standard Dimensions

**Cutout Diameter** = 75mm  
**Overall Diameter** = 85mm  
**Recess Depth** = 139mm (RD)



# IRC DOWNLIGHTS

## Applications

Provides the same lumen output as a 50W dichroic lamp however only uses 35W of power. This is a 30% energy saving whilst providing the same 5000hr lamp life as a dichroic lamp. Perfect for those wanting a greener solution.

## Features

- Energy saving 35W IRC lamp
- Produces equivalent of 50W standard halogen
- 5000hr lamp life
- Die-cast construction
- Low voltage transformer that is compatible with Clipsal control products, including C-Bus® and Clipsal C-Thru® dimmers.



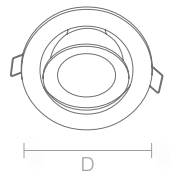
Clipsal IRC downlights special infrared coating converts some of the heat loss into more light, providing the same light output as 50W dichroic.

## IRC LAMP ENERGY SAVING KITS ROUND GIMBLE

Cat No.	Description
DLKLRG/FP,WE	With flex & plug, White
DLKLRG/FP,CH	With flex & plug, Chrome
DLKLRG/FP,BC	With flex & plug, Brushed Chrome



**Standard Dimensions**  
**Cutout Diameter** = 92mm  
**Overall Diameter** = 105mm (D)  
**Recess Depth** = 70mm

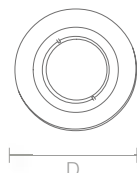


## IRC LAMP ENERGY SAVING KITS ROUND FIXED

Cat No.	Description
DLKLRF/FP,WE	With flex & plug, White
DLKLRF/FP,CH	With flex & plug, Chrome
DLKLRF/FP,BC	With flex & plug, Brushed Chrome



**Standard Dimensions**  
**Cutout Diameter** = 70mm  
**Overall Diameter** = 80mm (D)  
**Recess Depth** = 50mm



# LOW VOLTAGE DOWNLIGHTS

## Applications

The CDL Series downlight range is both durable and stylish, available in a variety of modern finishes to suit every décor. The soft tones of downlights are an effective way of creating the perfect lighting mood. The cool daylight hues are an ideal way to highlight artwork or photographs or even to create a 'wall' of light.

## Features

- Twisted bayonet fitting for ease of re-lamping
- Multi-point contact lamp holder for good heat dissipation and longer lamp life
- Downlights come with a 230-240V/12V dimmable electronic transformer
- 250mm lamp lead sets for easy installation
- Large terminals for easy wiring (2x2.5mm)
- Includes an optional Earth loop terminal for easy fit-off
- Compatible with Clipsal control products, including C-Bus® and Clipsal C-thru® dimmers.

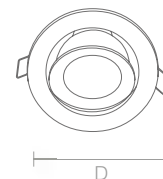
## LOW VOLTAGE ROUND GIMBLE

Cat No.	Description
CDL1ER/FP,WE	With flex & plug, White
CDL1ER/FP,CH	With flex & plug, Chrome
CDL1ER/FP,BC	With flex & plug, Brushed Chrome
CDL1ER,WE	White
CDL1ER,CH	Chrome
CDL1ER,BC	Brushed Chrome



### Standard Dimensions

**Cutout Diameter** = 92mm  
**Overall Diameter** = 105mm (D)  
**Recess Depth** = 70mm  
**Lamp Type** = MR16



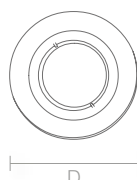
## LOW VOLTAGE ROUND FIXED

Cat No.	Description
CDL1ERF/FP,WE	With flex & plug, White
CDL1ERF/FP,CH	With flex & plug, Chrome
CDL1ERF/FP,BC	With flex & plug, Brushed Chrome
CDL1ERF,WE	White
CDL1ERF,CH	Chrome
CDL1ERF,BC	Brushed Chrome



### Standard Dimensions

**Cutout Diameter** = 70mm  
**Overall Diameter** = 80mm (D)  
**Recess Depth** = 50mm  
**Lamp Type** = MR16



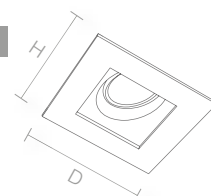
## LOW VOLTAGE SQUARE FIXED

Cat No.	Description
CDL1ESQ/FP,WE	With flex & plug, White
CDL1ESQ/FP,3A	With flex & plug, Satin Silver
CDL1ESQ,WE	White
CDL1ESQ,3A	Satin Silver



### Standard Dimensions

**Cutout Diameter** = 88mm  
**Overall Dimensions** = 100mm (D) x 100 (H)  
**Recess Depth** = 80mm  
**Lamp Type** = MR16



# SATURN DOWNLIGHTS

## Applications

Clipsal Saturn is a premium range of architecturally designed electrical accessories. Especially appealing to those who desire the latest styles and fashions. Lighting is one aspect around the home you want to get just right and the Clipsal Saturn Downlight range will help you achieve this. Attention to detail makes this range the most stunning and fashionable downlight on the market. The unique finish and design of Clipsal Saturn Downlights will shed light with style, enhancing the natural beauty of your home.

## Features

- Round glass facia with White, Chrome or Brushed Chrome housing
- Smaller than standard downlights
- Low voltage transformer and lamp included
- Available with flex and plug options
- Easy installation
- Compatible with Clipsal control products, including C-Bus® and Clipsal C-Thru® Dimmers.

## LOW VOLTAGE SATURN

Cat No.	Description
CDLSFGR/FP,WE	With flex & plug, White
CDLSFGR/FP,CH	With flex & plug, Chrome
CDLSFGR/FP,BC	With flex & plug, Brushed Chrome
CDLSFGR,WE	White
CDLSFGR,CH	Chrome
CDLSFGR,BC	Brushed Chrome



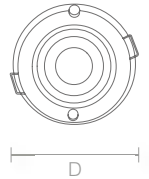
### Standard Dimensions

**Cutout Diameter** = 70mm

**Overall Diameter** = 80mm (D)

**Recess Depth** = 50mm

**Lamp Type** = MR16





## BATHROOM DOWNLIGHTS

### Applications

A range of downlights that are suitable for bathroom and other wet area installations. IP54 rated, these fittings are available with either a round opal domed lens or a round flush mounted clear lens.

### Features

- Low voltage transformer that is compatible with Clipsal control products, including C-Bus® and Clipsal C-Thru® dimmers
- 250mm silicon lamp lead
- Supplied with flex & plug as standard
- 35W EXN lamp
- IP54 rated.

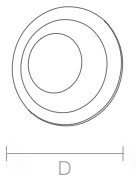
### BATHROOM DOWNLIGHT KITS

Cat No.	Description
<b>CDL1ER54/FP,WE</b>	With flex & plug, White
<b>CDL1ER54/FP,CH</b>	With flex & plug, Chrome
<b>CDL1ER54/FP,BC</b>	With flex & plug, Brushed Chrome



#### Standard Dimensions

**Cutout Diameter** = 70mm  
**Overall Diameter** = 95mm (D)  
**Recess Depth** = 75mm  
**Lamp type** = MR16 35W



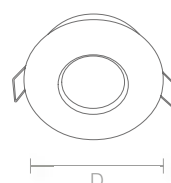
### FLUSH MOUNTED CLEAR GLASS LENS

Cat No.	Description
<b>CDL1ERF54/FP,WE</b>	With flex & plug, White
<b>CDL1ERF54/FP,CH</b>	With flex & plug, Chrome
<b>CDL1ERF54/FP,BC</b>	With flex & plug, Brushed Chrome



#### Standard Dimensions

**Cutout Diameter** = 70mm  
**Overall Diameter** = 88mm (D)  
**Recess Depth** = 75mm  
**Lamp type** = MR16 35W



# SQUARE LOW VOLTAGE DOWNLIGHT FIXTURES

## Applications

A range of fixed and gimble downlight fixtures only. These fixtures are suitable for residential or commercial applications requiring a stylish, modern look.

## Features

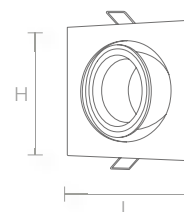
- Ceiling clips
- Gimble or fixed.

## LOW VOLTAGE SQUARE GIMBLE - FITTING ONLY

Cat No.	Description
LVGSQWE	White
LVGSQCH	Chrome
LVGSQBC	Brushed Chrome



**Standard Dimensions**  
**Cutout Diameter** = 85mm  
**Overall Dimensions** = 95mm (H) x 95mm (L)  
**Recess Depth** = 70mm

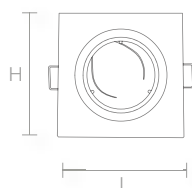


## LOW VOLTAGE SQUARE FIXED - FITTING ONLY

Cat No.	Description
LVFSQWE	White
LVFSQCH	Chrome
LVFSQBC	Brushed Chrome



**Standard Dimensions**  
**Cutout Diameter** = 70mm  
**Overall Dimensions** = 80mm (H) x 80mm (L)  
**Recess Depth** = 60mm



## PL DOWNLIGHTS

### Applications

PL downlights are easy to fit and very cost effective. Supplied with integral high frequency control gear, unique features include retrofit IP rated lens, drop glass and turbo louvers. Suits all commercial projects such as board rooms, hospitals and aged care applications.

### Features

- Compact fluorescent downlight with faceted aluminium high finish reflector
- Horizontally mounted lamps for high efficiency and reduced running costs
- Easy installation three point fixing system
- Poly carbonate ventilated housing
- Shallow recessing of only 150mm
- Tiltable lamp holders for easy lamp replacement
- Single and twin versions
- High frequency non-dimming electronic integral electronic control gear
- Flex and plug supplied and fitted
- White trim
- Dimming options on request
- Suitable for maximum thickness ceiling of 20mm
- Lamps PL-C 4 pin (lamps not included)
- Optional twist and lock on accessories:  
Glass cover IP65 rated  
Drop glass lens.



*Clipsal PL downlights have fluorescent lamps which combined with high frequency electronic ballasts make them energy efficient.*

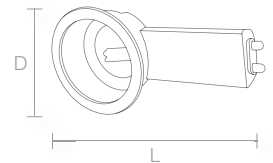
### PL FLUORESCENT SINGLE LAMP

Cat No.	Description
<b>181WH</b>	1 x 18W
<b>261WH</b>	1 x 26W



#### Standard Dimensions

**Cutout Diameter** = 233mm  
**Overall Diameter** = 255mm (D)  
**Recess Depth** = 125mm  
**Height** = 140mm  
**Length** = 505mm (L)



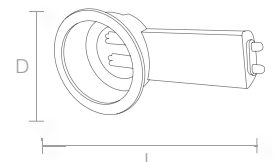
### PL FLUORESCENT DUAL LAMP

Cat No.	Description
<b>182WH</b>	2 x 18W
<b>262WH</b>	2 x 26W



#### Standard Dimensions

**Cutout Diameter** = 233mm  
**Overall Diameter** = 255mm (D)  
**Recess Depth** = 125mm  
**Height** = 140mm  
**Length** = 505mm (L)



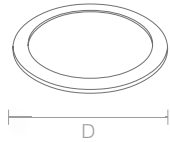
# PL DOWNLIGHT ACCESSORIES

## BEZEL TRIM WITH CLEAR GLASS TO SUIT PL FLUORESCENT DOWNLIGHT

Cat No.	Description
<b>811WH</b>	Pressed steel IP65 twist-off bezel trim with clear glass



**Standard Dimensions**  
**Overall Diameter** = 255mm (D)  
**Projection** = 9mm

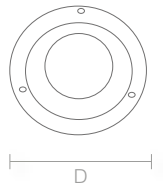


## TRIM WITH CLEAR/FROSTED FLOATING GLASS SUITS PL FLUORESCENT DOWNLIGHT

Cat No.	Description
<b>820WH</b>	Pressed steel twist-off bezel trim with clear/frosted floating glass



**Standard Dimensions**  
**Overall Diameter** = 255mm (D)  
**Projection** = 40mm



Centra Plaza. Department of Industry, Tourism and Resources, Canberra.





## CABINET LIGHTING

### Applications

Cabinet downlights are suitable for all surface or recessing requirements in kitchen bench tops, cabinet shelves, display cabinets, bookcases or bar areas to provide great illumination where space is at a premium, whilst also saving on running costs.

### Features

- Energy efficient 7W GX53 T2 fluorescent lamp included (4000K)
- Long lamp life of 8,000hr
- Will accept up to 13W T2 lamps
- Surface and recessing options
- Not suitable for dimming
- Complete with lamp holder and 2m mains lead for hard wiring.



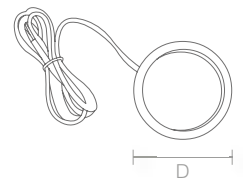
*Clipsal CFL cabinet lights use 70-80% less power than incandescent lamps.*

### CABINET LIGHTING

Cat No.	Description
204WH	240V, 7W, White
204CH	240V, 7W, Chrome



Standard Dimensions
<b>Overall Diameter</b> = 95mm (D)
<b>Recess Depth</b> = 26mm
<b>Surface Mount Projection</b> = 37mm
<b>Lamp Type</b> = GX53
<b>Cut Out Diameter</b> = 80mm

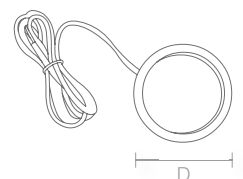


### CABINET LIGHTING

Cat No.	Description
201WH	240V, 7W, polycarbonate, White



Standard Dimensions
<b>Overall Diameter</b> = 84mm (D)
<b>Projection</b> = 25mm
<b>Lamp Type</b> = GX53
<b>Surface Mount Depth</b> = 37mm





## LED LIGHTING

Clipsal's LED Lighting utilises the latest electronic lighting diode technology. They are available in white and blue illumination and have an extremely long lamp life exceeding 50,000 hours. The range's ability to produce the "pure colours" that are not possible to achieve with other light sources allows them to operate at very low power consumption. LED lighting has no filaments so they seldom require replacing and are very compact in size, while offering high resistance to vibration or shock.



*More efficient than CFL lamps, LED technology saves up to a further 15% on your energy consumption.*



Hilton Adelaide, Conference Centre.

## LED DOWNLIGHT KITS

### Applications

This downlight is perfect for any commercial or residential application. With its low running temperature and low energy consumption these downlights will soon be the preferred choice.

### Features

- 700mA constant current driver included
- Low voltage 17-20V
- 12W - 50,000hr lamp
- >650 lumens for 3000k (warm white)
- >700 lumens for 4500k (cool white)

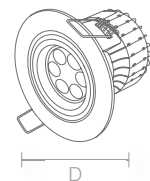
### LED DOWNLIGHT KIT - 12W, 35 DEGREE ROUND GIMBLE

Cat No.	Description
L935C/12WH	Cool white lamp, white
L935C/12BC	Cool white lamp, brushed chrome
L935W/12WH	Warm white lamp, white
L935W/12BC	Warm white lamp, brushed chrome



#### Standard Dimensions

**Cutout Diameter** = 92mm  
**Overall Diameter** = 100mm (D)  
**Recess Depth** = 76.5mm  
**Lamp Type** = 12W LED



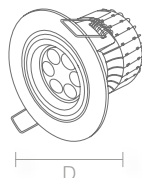
### LED DOWNLIGHT KIT - 12W, 60 DEGREE ROUND GIMBLE

Cat No.	Description
L960C/12WH	Cool white lamp, white
L960C/12BC	Cool white lamp, brushed chrome
L960W/12WH	Warm white lamp, white
L960W/12BC	Warm white lamp, brushed chrome



#### Standard Dimensions

**Cutout Diameter** = 92mm  
**Overall Diameter** = 100mm (D)  
**Recess Depth** = 76.5mm  
**Lamp Type** = 12W LED



### \*LED DOWNLIGHT - 70 DEGREE ROUND FIXED

Cat No.	Description
L970H4C/11WH	11W, cool white lamp, white
L970H4W/11WH	11W, warm white lamp, white
L970H5C/14WH	14W, cool white lamp, white
L970H5W/14WH	14W, warm white lamp, white
L970H6C/21WH	21W, cool white lamp, white
L970H6W/21WH	21W, warm white lamp, white

\*To be released



#### Standard Dimensions - 11W

**Cutout Diameter** = 107mm  
**Overall Diameter** = 119mm  
**Recess Depth** = 107mm

#### Standard Dimensions - 14W

**Cutout Diameter** = 120mm  
**Overall Diameter** = 143mm  
**Recess Depth** = 95mm

#### Standard Dimensions - 21W

**Cutout Diameter** = 156mm  
**Overall Diameter** = 168mm  
**Recess Depth** = 95mm

# STAIR/WALL LOW LEVEL LIGHTING

## Applications

Suitable for residential or commercial applications where low level lighting is required. These low wattage fixtures also mean low running costs.

Perfect for applications where lights need to be left running for long periods of time.

## Features

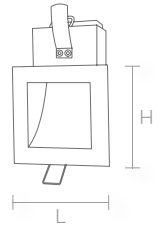
- Low level lighting features
- Mains voltage with integral LED 240V driver
- Non dimming
- Low running cost
- Long lamp life
- Blue or white LEDs available
- Interior use only.

## SQUARE UP/DOWN PRESSED STEEL

Cat No.	Description
<b>L780WH</b>	8 x White LED (1.6W total)



Standard Dimensions
<b>Cutout:</b> 75mm x 70mm
<b>Overall Dimensions:</b> 90mm (H) x 90mm (L)
<b>Recess Depth:</b> 75mm

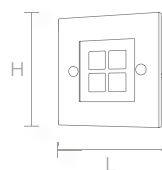


## SQUARE CAST ALUMINIUM

Cat No.	Description
<b>L681WH</b>	4 x White LED (1W total)

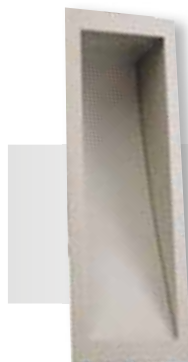


Standard Dimensions
<b>Cutout Diameter:</b> 60mm x 60mm
<b>Overall Dimensions:</b> 91mm (H) x 91mm (L)
<b>Recess Depth:</b> 45mm

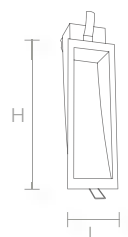


## RECTANGULAR UP/DOWN PRESSED STEEL

Cat No.	Description
<b>L781WH</b>	8 x White LED (1.6W total)



Standard Dimensions
<b>Cutout Diameter:</b> 220mm x 70mm
<b>Overall Dimensions:</b> 235mm (H) x 80mm (L)
<b>Recess Depth:</b> 85mm





## IP65 RATED LIGHTING

### Applications

With their IP65 rating, these fixtures can be used not only for indoor lighting requirements but for exterior lighting as well. Their low level light is ideal for illuminating stairways and corridors. With a cool operating temperature, pure light emitting colours and long lamp life these lights will continue to feature for many years to come.

### Features

- IP65 rated
- Integrated LED driver
- Satin Silver cast aluminium faceplate
- LED life up to 30,000hr
- Non dimmable.

### SQUARE ALUMINIUM EXTERIOR OR INTERIOR

Cat No.	Description
<b>L881WH</b>	14 x White LED (3W total)
<b>L881BLU</b>	14 x Blue LED (3W total)

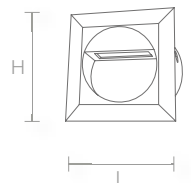


#### Standard Dimensions

**Cutout Diameter:** 120mm

**Overall Dimensions:** 126mm (H) x 126mm (L)

**Recess Depth:** 70mm



### ROUND ALUMINIUM EXTERIOR OR INTERIOR

Cat No.	Description
<b>L880WH</b>	14 x White LED (3W total)
<b>L880BLU</b>	14 x Blue LED (3W total)

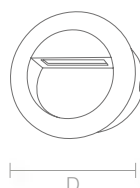


#### Standard Dimensions

**Cutout Diameter:** 120mm

**Overall Diameter:** 126mm (D)

**Recess Depth:** 70mm



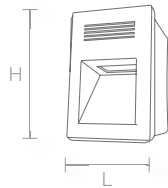
# IP65 RATED LIGHTING

## RECTANGULAR ALUMINIUM EXTERIOR OR INTERIOR

Cat No.	Description
<b>L882WH</b>	10 x White LED (1W total)
<b>L882BLU</b>	10 x Blue LED (1W total)



**Standard Dimensions**  
**Cutout:** 117mm x 77mm  
**Overall Dimensions:** 145mm (H) x 95mm (L)  
**Recess Depth:** 100mm

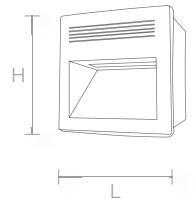


## SQUARE ALUMINIUM EXTERIOR OR INTERIOR

Cat No.	Description
<b>L883WH</b>	18 x White LED (4W total)
<b>L883BLU</b>	18 x Blue LED (4W total)



**Standard Dimensions**  
**Cutout:** 122mm x 125mm  
**Overall Dimensions:** 135mm (H) x 135mm (L)  
**Recess Depth:** 100mm



## CABINET LIGHTING

### Applications

Great for use under benches, cabinets, bookcases or shelving in any residential or commercial applications where low level lighting is required. Low wattage means low running costs so these fittings may be left running for long periods of time.

### Features

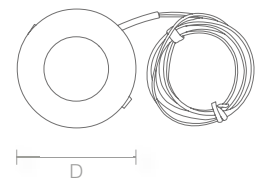
- Low level lighting features
- May be surfaced or recess mounted
- Remote LED driver required (constant current)
- Supplied with 2M cable for connection to driver
- Non dimming
- Low running cost
- Long lamp life
- Blue or white LEDs available (Only L507)
- Interior use only.

### I2V DC ALUMINIUM FIXED

Cat No.	Description
L507WH	9 x White LED
L507BLU	9 x Blue LED



**Standard Dimensions**  
**Cutout Diameter:** 60mm  
**Overall Diameter:** 74mm (D)  
**Recess Depth:** 25mm  
**Projection:** 8mm

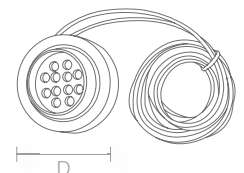


### I2V DC ADJUSTABLE WHITE LED

Cat No.	Description
L506WH	White poly carbonate (1.1W total)
L506CH	Chrome poly carbonate (1.1W total)



**Standard Dimensions**  
**Cutout Diameter:** 55mm  
**Overall Diameter:** 66mm (D)  
**Recess Depth:** 18mm  
**Horizontal Adjust:** 10°  
**Rotation:** 360°



# STRIP KITS 12V

## Applications

LED strip kits are ideal for quick and simple installation into difficult areas such as behind splash backs, signs, home theatre risers, bookshelves, bars and display cases. They provide long life lighting with no maintenance needed. They're also safe lighting with no heat emitted from the LEDs.

## Features

- Single colour semi flexible LED strip
- Fast installation into any application
- Kit includes:
  - 4x500mm linkable single colour LED strip
  - Fixing brackets
  - Interconnect leads
  - 16W constant voltage LED driver.
- Hard wired
- Cut joint on strips every 47mm for required shortening
- 12mm spacing between LEDs
- LED beam angle 120°
- Voltage drop 0.08V per 2m
- Very low power consumption of only 4.8W per metre
- Non dimmable.

## LED STRIP KIT

Cat No.	Description
<b>LSTH050WH</b>	120 x White LED (4.8W/m)
<b>LSTH050BLU</b>	120 x Blue LED (4.8W/m)



### Standard Dimensions

**Length:** 500mm  
**Width:** 8mm  
**Height:** 4mm  
**Beam Angle:** 120°



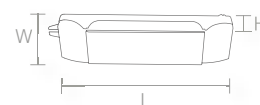
## LED DRIVERS

Cat No.	Description
<b>LED1012CV</b>	240V 12VDC 10W constant voltage. For use with L506/L507 and L651 series.
<b>LED16T</b>	240V 12VDC 16W constant voltage. For use with L506/L507 series.



### Standard Dimensions

**Length:** 155mm (L)  
**Width:** 38mm (W)  
**Height:** 24mm (H)





## MARKER LIGHTS 12V

### Applications

For exterior or interior use such as corridors, stairs, kitchen plinth or home theatre applications.

Easy to install with low maintenance. No heat output and low power consumption.

### Features

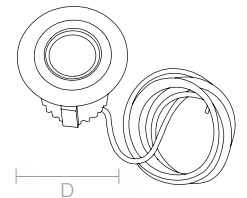
- 12V d.c. IP65 LED marker lights with white LED
- Supplied with 1.0M cable for connection to constant voltage LED drivers
- Not suitable for mounting in solid walls
- Non dimming
- Poly carbonate mouldings
- 0.4W power consumption.

### LED MARKER

Cat No.	Description
<b>L651WH</b>	White poly carbonate (0.4W total)
<b>L651CH</b>	Chrome polycarbonate (0.4W total)



**Standard Dimensions**  
**Cutout Diameter:** 35mm  
**Overall Diameter:** 49mm (D)  
**Recess Depth:** 50mm





## EXTERIOR LIGHTING

Clipsal now offers exterior lighting that is ideal for any residential or commercial outdoor application. The new Clipsal exterior lights are available as bulkheads and decorative lighting, so there is sure to be a style to suit your needs and requirements.

### **BULKHEAD EXTERIOR LIGHTS**

Clipsal bulkhead exterior lights come in round, oval and conical styles and are manufactured from aluminium, stainless steel and die-cast. Clipsal bulkhead exterior lights are also compatible with CFL lamps, so you'll save energy and money while enjoying the convenience of a long lamp life of 8,000 hours.

### **EXTERIOR WALL LIGHTS**

Clipsal exterior wall lights are available with energy saving halogen or CFL lamp options. Manufactured from 304 stainless steel means they will withstand exposure to harsh Australian weather all year round and are IP44 or IP54 rated.



## BULKHEADS EXTERIOR LIGHTING

### Applications

These Clipsal exterior lights are an ideal way to apply the finishing touches when you are renovating or updating your home. Stylish and durable, these multi-purpose wall lights are ideal for coastal locations or areas where weather affects long life.

### Features

- Die-cast aluminium construction
- Powder coated body
- Frosted glass lens
- E27 ceramic lamp holder
- Lamp not included
- IP44 weatherproof rating.

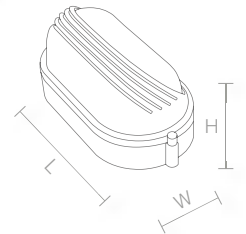
### OVAL LOUVRE

Cat No.	Description
COLAB232SW	Aluminium, White
COLAB232SB	Aluminium, Black



#### Standard Dimensions

**Width** = 110mm (W)  
**Height** = 90mm (H)  
**Length** = 215mm (L)



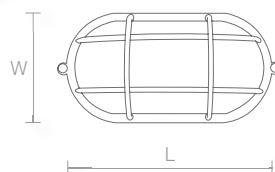
### OVAL OPEN CAGE

Cat No.	Description
COOAB236SW	Aluminium, White
COOAB236SB	Aluminium, Black



#### Standard Dimensions

**Width** = 110mm (W)  
**Height** = 90mm  
**Length** = 215mm (L)



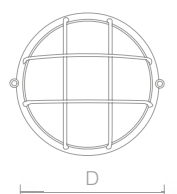
### ROUND OPEN CAGE

Cat No.	Description
COCAB301SW	Aluminium, White
COCAB301SB	Aluminium, Black



#### Standard Dimensions

**Diameter** = 180mm (D)  
**Height** = 100mm



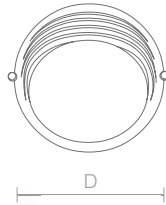
# BULKHEADS EXTERIOR LIGHTING

## ROUND LOUVRE

Cat No.	Description
COLAB301SW	Aluminium, White
COLAB301SB	Aluminium, Black



**Standard Dimensions**  
**Diameter** = 180mm (D)  
**Height** = 100mm

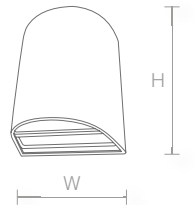


## CONICAL

Cat No.	Description
CWL150B	Black wall light



**Standard Dimensions**  
**Diameter** = 110mm  
**Height** = 190mm (H)  
**Width** = 134mm (W)

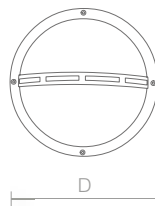


## ROUND 304

Cat No.	Description
CGB772SS	Stainless steel trim and strap



**Standard Dimensions**  
**Diameter** = 255mm (D)  
**Height** = 90mm

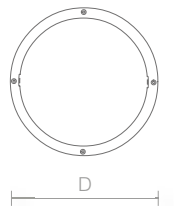


## ROUND 304

Cat No.	Description
CGB773S	Stainless steel trim



**Standard Dimensions**  
**Diameter** = 255mm (D)  
**Height** = 90mm





## EXTERIOR WALL LIGHTING

### Applications

Suitable for residential and commercial projects, these high quality stainless steel fittings offer style.

Models are available as a single lamp which may be mounted in the upward or downward positions or double lamp versions also available for up and down illumination.

### Features - Halogen

- 12V MR111x20W and 2x20W low voltage dichroic halogen
- IP65 rating
- 304 stainless steel
- Spring loaded lamp holders to assist relamping
- For use with Hunter remote transformer (60VA) (not supplied)
- Dimmable
- Fixed mounting non adjustable
- Lamps not included.

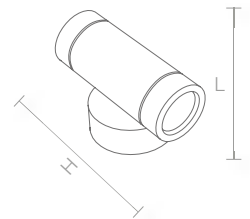
### IP56 WALL LIGHT HALOGEN

Cat No.	Description
WDL830	Fixed twin halogen



#### Standard Dimensions

**Overall Diameter** = 45mm  
**Height** = 105mm (H)  
**Length** = 63mm (L)  
**Base** = 63mm x 25mm  
**Lamp Type** = MR11



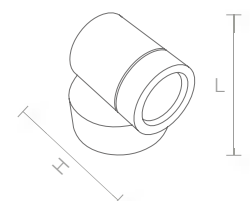
### IP56 WALL LIGHT HALOGEN

Cat No.	Description
WDL820	Fixed single halogen



#### Standard Dimensions

**Overall Diameter** = 45mm  
**Height** = 62mm (H)  
**Length** = 62mm (L)  
**Base** = 63mm x 25mm  
**Lamp Type** = MR11



# EXTERIOR WALL LIGHTING

## Applications

This fixture is a contemporary wall light with a modern finish that will make your outdoor lighting a stunning feature. Perfect for use in the garden.

## Features

- E27 ceramic lamp holder
- Strong construction
- IP44 weatherproof rating
- Lamp not included.

## EXTERIOR DECORATIVE WALL LIGHTS UPLIGHT

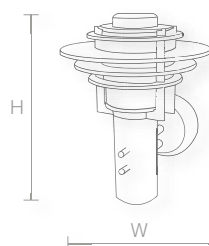
Cat No.	Description
CSSWL555UP	IP44 rated



### Standard Dimensions

**Height** = 290mm (H)

**Width** = 230mm (W)



# INFRASCAN®

PASSIVE INFRARED SENSOR

## 754 SERIES

# CLIPSAL®

by Schneider Electric

# See Infrascan in a new light.

## Sleek new styling and more features than ever before.

Clipsal's new Outdoor Infrascan range won't leave you in the dark because they now offer a sensor light to suit every application. Enjoy the convenience and security of a sensor light that will deter intruders and welcome guests, while offering innovative features and benefits that are unique to the Clipsal Outdoor Infrascan range. Besides the stylish new look and design, some of the fantastic features include:

- ◎ **Integral Override Facilities:** Override to ON when you don't want the light to time-out accidentally or override to OFF when you don't want the light to activate at all.
- ◎ **Courtesy Light / Dimmer Facility:** Select units feature a courtesy light function. When the unit detects movement, lighting will increase to full brightness, and return to the set dimming level when the timer expires.
- ◎ **Adjustable Beam Focus:** Select units feature an adjustable beam, allowing light to be focused in a narrow beam spot or dispersed to illuminate a larger area using a wide beam spot.



Catalogue No	Description
754HL1/140/150	150W Security Floodlight with 140° PIR Motion Detector, 12m Range
754HS1/140/60	60W Security Spotlight with 140° PIR Motion Detector, 12m Range
754HS2/140/60	60W Security Twinspot with 140° PIR Motion Detector, 12m Range
754HF1/180/150	150W Security Floodlight with 180° PIR Motion Detector, 12m Range
754HF1/180/300	300W Security Floodlight with 180° PIR Motion Detector, 12m Range
754HB1/180/60	60W Security Spotlight with 180° PIR Motion Detector, 12m Range
754HB2/180/60	60W Security Twinspot with 180° PIR Motion Detector, 12m Range
754RFKIT	Wireless Audible Alert Chime for use with 754 Series Infrascan Range

**3 WIRE DESIGN**



For more information or for a brochure, speak to your **Clipsal Rep**, call **1300 2025 25** or visit **clipsal.com**



## DALI CONTROL



# ALL UNDER CONTROL WITH DALI

**During the late 90s Europe's leading lighting ballast manufacturers recognised the need to adopt a standard interface for digital lighting control systems. The outcome was DALI, an international standard which stands for Digital Addressable Lighting Interface.**

Clipsal have developed control hardware and software to fully support the intelligent features of DALI. The DALIcontrol system by Clipsal combines Lighting, Emergency Lighting and Controls in one managed solution to provide cutting edge lighting control for commercial lighting requirements. Built on the DALI protocol, the hardware provides compatibility with many types of electronic control gear such as electronic ballasts, transformers, LED lights, emergency lights and exit signs, with control from motion sensors, wall switches and touch screens.

The solution is based on intelligent DALIcontrol building controllers that can be installed around a building on existing Ethernet network infrastructure and use time schedules, push buttons, switches and sensor inputs to manage all aspects of commercial lighting. The DALIcontrol system also provides a fully compliant (AS/NZS 2293) emergency lighting monitoring and reporting solution.

A key advantage of the DALIcontrol system is that each input, switch and sensor can have 4-profiles, allowing their behaviour to be tailored for different circumstances. For example different profiles can be configured for Office Hours, After Hours, Generator Power and Secure Building. During Office Hours a switch may be used as a single-button dimmer, After Hours it may be a Cleaner's button and bring the lights onto 50%, under Generator power it may only bring the lights on to 20% to reduce load, when the building is secured it may bring all the lights on full.



## DALI CONTROL

### EASY DESIGN AND INSTALLATION

The DALIcontrol system combines Lighting, Emergency Lighting and Controls on one system. With all lamp types on one system, commercial clients can integrate lighting control with emergency and exit lighting, as well as security and climate systems on one platform, to enable simple and effective master control of the building's services. For more straightforward systems the simple capability of DALI to provide a single solution with reduced complexity is an attractive prospect.

### CONFIGURABLE AND SUSTAINABLE

The clear driving force today in lighting control is to make the best use of the energy consumed by the building under design. The DALIcontrol system has built-in energy efficient behaviour and dynamic profiles to suit the status of the building. Utilising integrated occupancy and light level sensors, each building controller includes an integrated real-time clock with automatic daylight savings correction, sunrise and sunset calculation and holiday exceptions. Occupancy detectors can be used to reduce lighting levels after a predefined period. The system can also control fans and blinds.

### FLEXIBLE AND EXTENSIBLE

The DALIcontrol system by Clipsal provides by its very architecture, a uniquely flexible approach to floor plan control. The system gives the designer a wide degree of flexibility in zone definition and control strategy – and ensures that changing tenancies, future expansion, new features and reconfiguration are easily catered for at any time without alterations to wiring.

Utilising Clipsal's M3 5-pin 'soft-wiring' system, a DALIcontrol system is simple to install and commission while minimising labour costs. The distributed architecture enables sections to be tested and commission ready for the tenancy as each area is installed. The end result is an eco friendly, flexible and economical DALI lighting solution to suit everyone's needs.

### MAINTAINABLE AND ACCESSIBLE

With the ability to generate full error reporting of all light fittings and carry out emergency light testing, a DALIcontrol system makes it easier to maintain the lighting component of your building. Accessible with Ethernet access, the system is ideal for integration with other building services.

### FUTUREPROOF

The ability to control and monitor lighting means that lighting control plays a critical role in determining and achieving energy savings, assisting to comply with world class recognised standards driven by the NSW Department of Environment, Climate Change and Water (NABERS rating system) and the Green Building Council of Australia (Green Star rating system). Built on two International Standards, DALI and Ethernet, DALI is supported by all major ballast manufacturers.

The Clipsal DALIcontrol solution has been used in major commercial buildings for office, architectural, tunnel, restaurant and retail lighting applications in Australia and overseas. If you're planning a commercial project requiring a lighting control solution, then a DALIcontrol lighting system is without doubt one of the simplest and easiest methods of achieving superior and hassle free lighting control and energy management.

For more information visit [www.clipsal.com/dalicontrol](http://www.clipsal.com/dalicontrol)





## LIGHTING ACCESSORIES

Along with Clipsal's extensive range of lighting comes Clipsal lighting accessories. Clipsal offer a huge range of additional lighting accessories to create the perfect lighting solution for your requirements and application.

Clipsal's range of lighting accessories includes lamps, lamp holders, control gear, fluorescent starters, adaptors, batten holders, ceiling roses with terminals, well glass fittings, diffusers, lenses and mounting brackets.

No matter what your lighting requirements, Clipsal has you covered.



## LIGHTING ACCESSORIES

### LOW VOLTAGE DOWNLIGHT TRANSFORMERS



- CDL1E60C/FP**
- 240 12V 60VA.
  - C-Bus compatible Hunter electronic transformer
  - With flex and plug.

- CDL1E60C**
- 240 12V 60VA
  - C-Bus compatible Hunter electronic transformer.

- STR50/12H**
- 240 12V 50VA.
  - Electro-magnetic transformer.
  - Suits installations where downlight is located up to 10m from transformer.
  - With flex and plug.

### LAMPS 12V MR16



- MR16/50/EXT** • 50W EXT 14° 3,000hr.  
**MR16/50/EXN** • 50W EXN 38° 3,000hr.  
**MR16/50/FNV** • 50W FNV 60° 3,000hr.  
**MR16/35/IRC** • 35W IRC EXN 38° 5,000hr.

### LAMPS 240V CFL SGU10 10,000HR



- 4011/30** • 11W 3,000K warm white (non dimming).  
**4011/40** • 11W 4,000K cool white (non dimming).  
**4013/30** • 13W 3,000K warm white (non dimming).  
**4013/40** • 13W 4,000K cool white (non dimming).

### LAMPS 240V T2 CFL GX53 8,000HR



- UFL780** • 13W 3,000K warm white (non dimming).  
**UFL790** • 13W 4,000K cool white (non dimming).

### SURFACE SOCKETS



- 413** • 250V, 10A 3 pin with looping terminal  
 • Dia: 66mm, Height: 46mm.
- 413,TR** • 250V, 10A 3 pin with looping terminal, transparent  
 • Dia: 66mm, Height: 46mm.
- 413,QC** • 250V, 10A 3 pin.  
 • Uses the patented Krone ISA-PLUS insulation displacement termination method.

### FLUORESCENT STARTERS



- 700FE-U** • 220-250V, 4-80W universal starter switch.  
 • Dia: 21mm, Length: 34mm (exc pins).
- 700FE-T** • 220-250V, 4-20W series starter switch.  
 • Dia: 21mm, Length: 34mm (exc pins).

# LIGHTING ACCESSORIES

## LAMP HOLDERS

Cat No.	Description
501	Lamp holder plain
501S	Lamp holder plain with short skirt
501ES	Lamp holder edison screw
501SK	Lamp holder skirt
503A	Screwed lamp holder 1/2 inch brass w/skirt
503B	Screwed lamp holder 3/8 inch brass w/skirt
503C	Screwed lamp holder 5/8 inch brass w/skirt
503D	Screwed lamp holder 3/4 inch brass w/skirt
503J	Screwed lamp holder 1/2 inch conduit w/skirt
503L	Screwed lamp holder 16mm inch conduit w/skirt
503M	Screwed lamp holder 20mm inch conduit w/skirt
503MWP	Screwed lamp holder
501A	Screwed lamp holder 1/2 inch brass
501B	Screwed lamp holder 3/8 inch brass
516	Luminaire lamp holder
520A	Switched B22 BC lamp holder 1/2 inch brass
520B	Switched B22 BC lamp holder 3/8 inch brass



## BATTEN HOLDER

Cat No.	Description
2530	Four piece BC
2530LT	Four piece BC, with plugs
2530T	Four piece BC, with captive plugs
2530SS	Four piece safety BC
530	Three piece BC straight
530T	Three piece BC with captive plugs
530LT	Three piece BC with plugs
530SS	Three piece BC straight
530SSLT	Three piece safety BC, straight with plugs
530S	Cable insulating sleeve
530ES	Edison screw
531	BC three piece with safety skirt
533	BC three piece with large base
533ES	Edison screw, large base
535ES	Adjustable edison screw
535	Adjustable BC
536	Multi-position ring fits round J/Box



## LAMP HOLDER ACCESSORIES

Cat No.	Description
521A	Switched lamp holder - PVC nipple
521N	Switched lamp holder - Hex nut
466	Lamp holder adaptor
548	Lamp holder adaptor - mounting flange, base only
548A	Lamp holder adaptor - mounting flange, angled
548S	Lamp holder adaptor - mounting flange, straight
548H	Lamp holder moulded hook



## CEILING ROSE

Cat No.	Description
93	Four terminals
93/5	Five terminals
93S	Surface wiring ring
93BF	Flange with adjustable mounting holes
93ER	Extension ring





# LIGHTING TERMINOLOGY

## BALLASTS

Controls the current flowing through a fluorescent lamp. A low loss ballast consumes less watts per lamp and therefore produces less heat to reduce electricity bills. Electronic ballasts are the most efficient.

## BLOCKING INDUCTOR

An inductor (coil) wired in series with a fitting to present a high impedance to ripple control frequencies. When added to a power factor correction capacitor it blocks the ripple control frequencies from reaching the capacitor and prevents them from being reduced in amplitude. Used in some areas of NSW.

## COLOUR RENDERING (RA)

The ability of a lamp to give good colour representation of the object it is illuminating. The unit of measurement is RA. Some lamps have better colour rendering than others and should be selected for colour critical applications.

## COLOUR TEMPERATURE (K)

Applications for different colour temperature lamps:  
 Use warm white for accentuating warm colours (red, brown cream etc.) 3000K.  
 Use cool white with cool colours like grey and blue 4000K.  
 Use daylight colours in hot climates as a warm lamp makes people feel hotter 6000K.

## DICHROIC

A coating on the reflector that allows some of the infrared (heat) energy created by the lamp to pass through the back of the fitting instead of being reflected forward.

## DISCHARGE LAMPS

A lamp that produces light from an internal electric arc.

## EMC REGULATION

Since January 1, 1999 Australian regulations have required that all light fittings comply with regulations concerning the amount of electrical interference produced by the fitting. This is of special concern to fluorescent fittings as they generate considerable interference (mainly from the lamp).

## ENERGY EFFICIENCY INDEX

Designed to reduce energy bills and greenhouse gas emissions. Index provides the corrected total input power of the lamp and ballast circuit for that particular lamp and ballast combination. There are seven classifications or MEPS ratings: A1, A2, A3, B1, B2, C, D. The A1 classification is the most efficient.

## EMERGENCY LIGHTING

Provides defined levels of light to enable safe exit from a building when the mains power has failed. It has to switch on automatically and operate from batteries for at least two hours.

## GLARE CONTROL

Minimized by controlling the angle at which light is able to leave the luminaire. Such fittings are called low brightness luminaires. There are three methods of controlling the light angles: prismatic diffusers, egg crate diffusers and aluminum louvres.

## GENERAL LIGHTING SERVICE (GLS)

Refers to a standard mains powered incandescent lamp.

## GLARE RATING SYSTEMS

In Australia a glare index system is used, which takes into account the actual installation parameters as well as the luminaire. This system is a relative measurement of the visual discomfort of a seated observer who is looking straight ahead.

## INCANDESCENT

A material (tungsten in the case of filament lamps) that is heated until it gives off visible light. The tungsten slowly evaporates and darkens the inside of the lamp. As the tungsten evaporates the filament becomes thinner and eventually breaks.

## LIGHT EMITTING DIODES (LED)

In recent years LEDs have become more powerful and more multicoloured. They have almost reached a lumen output level that makes it possible to achieve useful output for use in luminaires.

## LIGHTING CALCULATIONS

The utilization factor table and a few simple formulas allow us to calculate the number of fittings required for any room. This is a value between 0 and 1. It takes into account the room reflectances, room shape, polar distribution and light output ratio of the fitting, however most computer programs accessing IES files now perform calculations.

## LUMEN

The measurement of the total amount of light output from a lamp.

## LUX

The measurement of the light intensity falling on a surface. One lux is equal to one lumen per square metre. The Australian standard AS/NZ 1680 gives lux levels for many different industries.

## METAL HALIDE

A version of the mercury vapour discharge lamp with additional chemical additives that produces a more natural light than standard mercury vapour. Good colour rendering.

## POWER FACTOR

The relationship between an alternating voltage and current in a circuit. In a resistive circuit (e.g. heater, toaster, electric cooker) the current is in phase with the Voltage. However, some devices with magnetic components in the circuit (e.g. ballasts) alter the phase relationship that causes extra current to be drawn for the same power output. Ballasts (being inductive components) cause the current to lag behind the voltage.

## TRIPHOSPHOR LAMPS

Triphosphor fluorescent lamps have three different phosphors coating the inside of the lamp. Each phosphor operates in its own colour band (red, green and blue) to give an improved combined colour output.

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