

morganhope

# Product Catalogue

Lighting Solutions by Morgan Hope



# Why Morgan Hope?

“Because we  
lower your  
Energy Bills and  
reduce your  
Carbon Footprint”

“ Morgan Hope was established in 1992 to provide electronic controls and energy efficient lighting systems for Industrial, Commercial, Retail, Housing Associations, Rail Networks and numerous other areas of application. Many products in our range are customer led, with bespoke light fitting designs that are now sold as general lighting options. With 100,000's of Morgan Hope products supplied to a broad customer base, Morgan Hope not only has long term experience in the marketplace but also quality performance that has ensured growth is stronger than ever. The service we offer extends well beyond product only, providing on-site support, full surveys to back up proposals, lighting design with photometric data and general assistance to enable the client to meet any special lighting objectives.

Morgan Hope is continually looking for new areas of progress and in conjunction with our associates overseas in Europe, USA and the Far East, we are confident in ensuring that we keep abreast of technology as it develops”.

The introduction of heating products to Morgan Hope was through the purchase of a specialised heating panel manufacturer under the name of Servitherm. The Servitherm heater is a unique Radiant Heater panel that is designed to provide localised heat in such areas as supermarket checkout counters, church pew heating, desk heating, sleeping pens for dogs and cats and all areas of localised heat requirements.

## ■ Commercial Lighting

Morgan Hope has developed a range of lighting products to meet the demands of all sectors of Commercial Lighting requirements. The advent of LED has enabled the creation of unique designs in luminaire body styles from recessed to surface incorporating linear or circular light source systems – all of which can offer light output from cool to warm white, with fixed or dimmable lighting control. Our Commercial Lighting covers applications within environments such as Offices, Schools, Housing, Hotels, Retail, Leisure and many more that may be suited to our versatile range of products.

## ■ Emergency Lighting

Emergency lighting is a legal, necessary and important requirement for the safety. It facilitates, where required, the speedy evacuation of occupants from buildings in situations that may endanger life, such as fire or power failures. General emergency lighting tends to be based on 3-hour battery back-up provision either as integral to the main luminaire or as a dedicated remote emergency unit. Morgan Hope offers a range of products to cover most emergency LED lighting needs from general escape route illumination to exit legend signage, all of which are outlined within this section of this publication.



### ■ Health Care Lighting

Health Care Lighting covers a very broad spectrum of our lighting range to facilitate the demands of all areas from corridors, wards, offices, consulting rooms, waiting areas through to service areas such as plant rooms and car parks. This publication will highlight the products suitable within our range including commercial and decorative applications, plus industrial products for the service areas. All our lighting can be designed to operate with control systems and where applicable, bespoke retrofit options can be provided for specific requirements. In terms of emergency lighting we can offer self-contained, remote and addressable systems.

### ■ Industrial Lighting

The primary products used within the industrial sector tend to cover Highbays, Lowbays and linear utility luminaires. The use of discharge lighting offered high levels of lumen efficiency but had the disadvantage of non-suitability for control. The progression in LED technology has enabled the development of LED options that not only exceed the light output of the traditional discharge fittings but also offer the options of control systems to switch or regulate based on occupancy and daylight. Morgan Hope has a comprehensive range of Highbays, Lowbays, utility fittings, floodlighting plus the capabilities to manufacture bespoke retrofit options to meet most demands for industrial usage. Our products have been used extensively for the LED upgrades of factories, warehousing, rail networks, car parks and many of other applications.

### ■ Lighting for Apartments, Social Housing, Warden Assisted Housing and Care Homes

The Morgan Hope luminaires within this range have been selected based upon our vast experience of the typical requirements of this market sector. The range is comprised of various luminaires that in many cases utilise a universal interchangeable gear tray with operational options, from fixed output to controlled systems. This enables us to satisfy the specific needs of different locations within a scheme without having to use different fittings, helping to give a cohesive and aesthetically pleasing lighting design. All of the luminaires within the range are equipped with LED light sources to deliver energy efficiency, high output illumination and a low on-going maintenance burden which ultimately means an improved lighting scheme and cost savings.

### ■ Bespoke Lighting

At Morgan Hope we understand that replacing old fittings is not always practical for a variety of reasons, ranging from cost implications, to more complex physical problems such as luminaire bodies being embedded into the substrate or to attached to an asbestos ceiling, where removal would risk asbestos dust contamination. Whatever the reason for requiring the retrofit gear tray option, Morgan Hope can solve these issues by manufacturing bespoke gear trays to meet specific on-site requirements from its broad and versatile range of LED PCBs and drivers. Morgan Hope will work closely with the client to ensure that the gear tray is designed to meet the detailed needs of each application.

### ■ Heating

"Low wattage, high efficiency and low running costs, Servitherm heaters have a 35-year history of being used for specialist heating requirements where conventional heating would not be suitable. The Servitherm Slimline Radiant Heater Panel can be used in many of applications such as kennel and cattery heaters, pew heating, check-out counter and desk heaters to name a few. It is designed to a unique patented system consisting of a fire resistant sandwiched fibreboard, encasing the heat source of a carbon fibre element and protected against overheating with dual thermal cut-out sensors, which far outlasts conventional wire elements.

For background heating in areas such as small rooms or conservatories, we introduced the Servitherm Combi, which not only provides localised heat but also has the benefit of airflow slots to enhance heat distribution within the space.

To compliment the Servitherm Slimline Radiant Heater, when used for back of pew heating, we added the option of the Servitherm SKL as a low-profile convector for under pew heating, providing a dual action of radiant heat from the Servitherm Panel to the upper body with general localised convected heat from under the pew seat with the Servitherm SKL".

*Please request the separate leaflet on our Servitherm Heaters.*



# Morgan Hope Products...

Each one of our projects is tailored to create the perfect solution to your needs.

Accessing photometric data to ensure your energy is as efficient as it can be.



LED Light Source



Self Contained Battery Backup Duration



Energy Saving Technology



Light Intensity in Lumens



Light Temperature in Kelvin



Water Ingress Resistance in Minutes



Health, Safety, & Environmental Standards



UK Conformity Assessed



Infrared Sensor



Restriction of Hazardous Substances Directive



Photometric Data available



Photocell



Day & Night Sensor



Day & Night Switchable



Bluetooth Connection



Do Not dispose in domestic bin

08 - 17

Decorative Surface  
and Bulkhead  
Luminaires

18 - 23

Downlights

24 - 27

Recessed  
Lighting

28 - 40

Lamps

41 - 51

Exterior  
Lighting

52 - 59

Emergency  
Lighting

60 - 65

Industrial  
Lighting

66 - 74

Energy  
Controls

76 - 77

Bespoke Retrofit  
Gear Tray Service

# Contents

## Decorative Surface and Bulkhead Luminaires...

Caprice LedLite CC.....	10	Impala LedLite CC.....	14
Gemini LedLite CC.....	11	Leo LedLite CC.....	15
Classic LedLite CC.....	12	Taurus LedLite CC.....	16
Colt LedLite CC.....	13	Astrid Strata.....	17

## Downlights...

Sapphire LedLite.....	19	Astrid Pixie.....	22
Sapphire LedLite LP.....	20	Astrid Pixie 8W-CCT-FR.....	23

## Recessed Lighting...

Astrid ModuLite.....	25	Pyramid LedLite CC.....	27
Astrid ModuLite TG66.....	26		

## Lamps...

Astrid 2D LedLamp.....	29	G90 Globe Lamp.....	37
Astrid CornLamp.....	30	G125 Globe Lamp.....	37
Astrid CornLamp-HP.....	31	Candle Lamp.....	38
Astrid LedLamp-PLC.....	32	Squirrel Lamp.....	38
Astrid LedTube.....	33	T30-Tubular Lamp.....	38
Astrid SSL-30W.....	34	Filament GLS Lamp.....	39
LedLite AC-Eco-12W.....	35	GU10 LED.....	39
Golf Ball Lamp.....	36	LED PL Lamp.....	39
GLS-A60.....	36	G9 LED.....	39
G80 Globe Lamp.....	37	Liteflow Flexistrip.....	40

## Exterior Lighting...

Astrid Highlite HP.....	42	Cloister LedLite CC.....	45
Astrid HighLite Eco.....	43	Impala LedLite CC.....	46
Bravo.....	44	Jupiter LedLite.....	47



Saturn LedLite .....	48
Phoenix.....	49
Phoenix UD Wall Wash Flood Light .....	50
Astrid Manta.....	51

### Emergency Lighting...

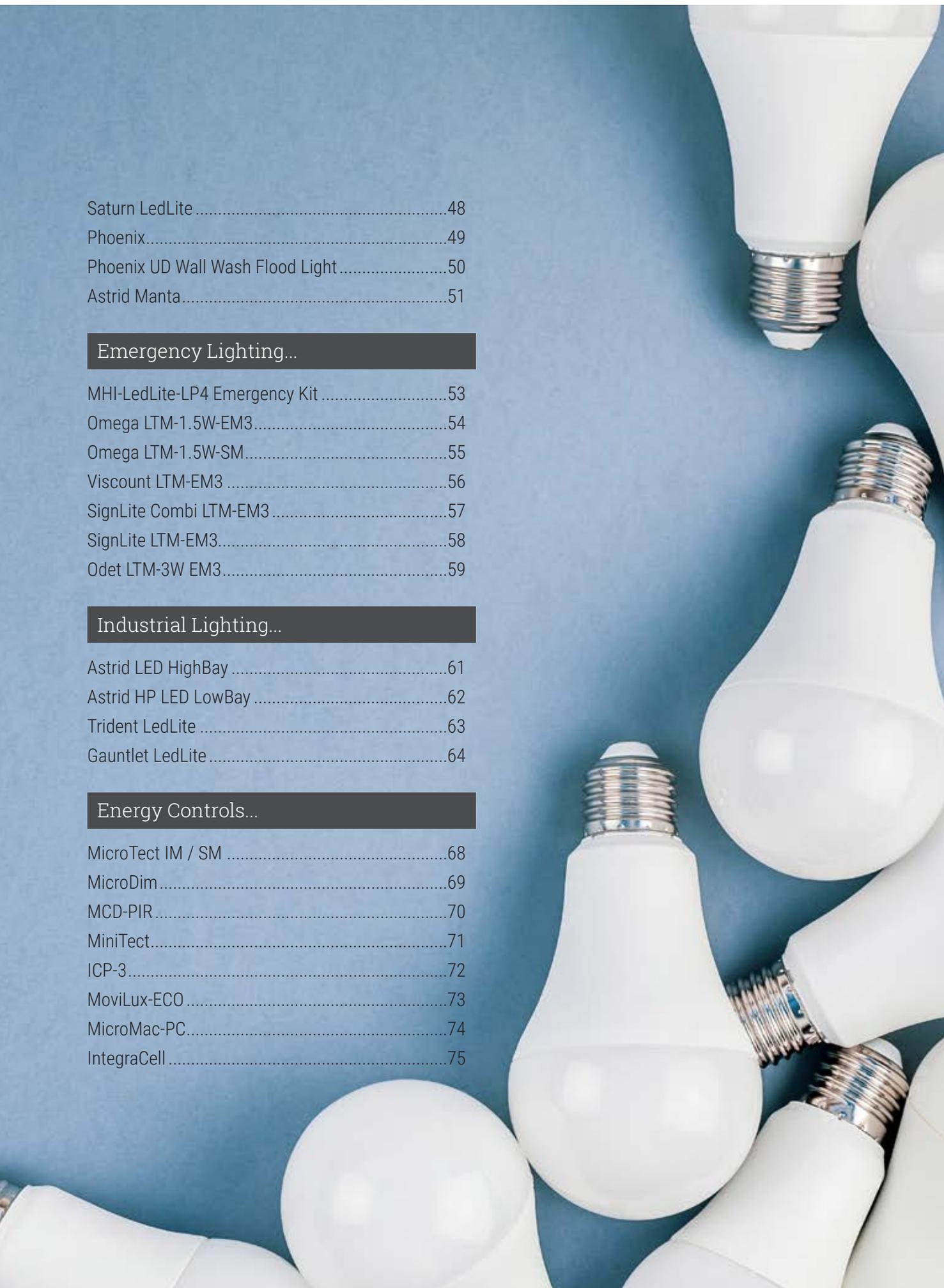
MHI-LedLite-LP4 Emergency Kit .....	53
Omega LTM-1.5W-EM3 .....	54
Omega LTM-1.5W-SM.....	55
Viscount LTM-EM3 .....	56
SignLite Combi LTM-EM3 .....	57
SignLite LTM-EM3.....	58
Odet LTM-3W EM3.....	59

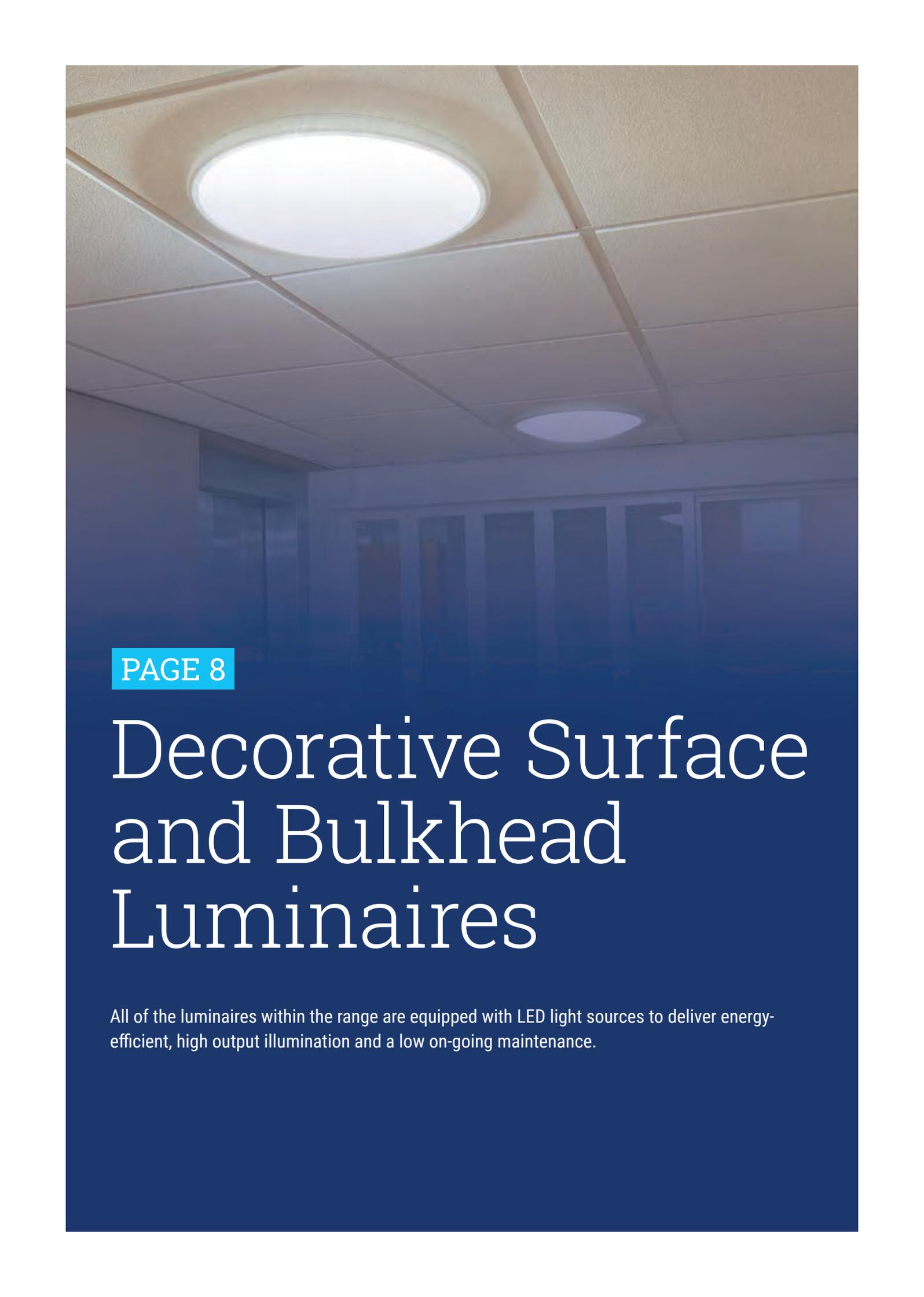
### Industrial Lighting...

Astrid LED HighBay .....	61
Astrid HP LED LowBay .....	62
Trident LedLite .....	63
Gauntlet LedLite .....	64

### Energy Controls...

MicroTect IM / SM .....	68
MicroDim.....	69
MCD-PIR.....	70
MiniTect.....	71
ICP-3.....	72
MovLux-ECO .....	73
MicroMac-PC.....	74
IntegraCell .....	75





PAGE 8

# Decorative Surface and Bulkhead Luminaires

All of the luminaires within the range are equipped with LED light sources to deliver energy-efficient, high output illumination and a low on-going maintenance.



# Ledlite

## LEDLITE CC

The LedLite CC Circular LED PCB has been designed by Morgan Hope to offer a unique LED light source, providing multiple uses, dependent upon specific application requirements. This offers fixed output, controlled occupancy lighting, emergency options and adjustable light output settings for increased or decreased illumination levels. LedLite CC uses proprietary branded LED-SMD Chips from such organisations as Samsung along with Constant Current Drivers from Osram.

The 'LedLite CC-3/1-Microtect' provides a twin circuit model that offers full output during occupancy but with the MicroMac microwave detector switching the higher output, so that when there is no occupancy only the inner circuit of 3 watts is illuminated for comfort background Health & Safety lighting with nominal energy consumption.

Due to the versatility of the design, the 'LedLite CC' PCB can also offer various options of use covering full output linking where the controlled comfort light is not required or when dimmable options are preferred against the 3/1 switching system.

A unique feature of the 'LedLite CC' is the variable light output options that will allow on-site adjustments simply by changing connection inputs on the driver. Morgan Hope will pre-wire to the medium, allowing adjustments either during factory production or on-site for a slight

improvement in output, or if required a slight reduction.

Another benefit of the 'LedLite CC' is the incorporation of a Constant Voltage circuit based on 12V DC, specifically for emergency lighting based on non-maintained support and including an LED Green Charge Light within the circuitry of the PCB. This is suitable for both integral battery back-up or from a central battery pack based on the Morgan Hope DC2DC system. Such inclusion as standard within the 'LedLite CC' PCB also has the added advantage of allowing on-site upgrades to emergency requirements, where shortfalls may have occurred.

## LEDLITE AC

LedLite AC is a driverless LED PCB system based on a circular PCB board available at either 240mm diameter with an output of 2500 lumens and consuming 22 Watts or the 170mm diameter with an output of 1500 lumens and consuming 12 Watts. These unique PCB options are available with fixed output or dimming with an integrally mounted microwave detector providing a selection of settings. The LedLite AC can be supplied with emergency back-up via the PCB. It is suitable for supply within most Morgan Hope circular housings but also has the benefit of a retrofit unit for the upgrade of existing luminaires to LED either

supplied as a stand-alone PCB or mounted to a bespoke gear tray suited to specific on-site requirements.

## LEDLITE LINEAR

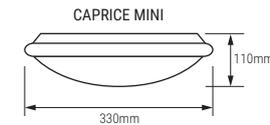
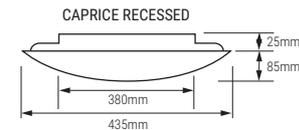
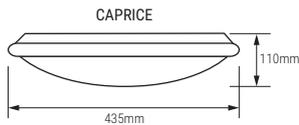
'LedLite Linear' uses the principles of the LedLite CC but is designed for use in linear luminaires such as the Morgan Hope Vapour-proof Gauntlet. It is produced in kit form to enable installation into luminaire lengths of 600mm - 1200mm - 1500mm and offers LED replacement for the equivalent of single and twin fluorescent models.

The circuitry replicates that of the 'LedLite CC' in as much as it has multiple circuits based on our 1/1 system to enable the primary high output circuit to be switched by the MicroMac occupancy detector, with the secondary circuit remaining 'On' for Health & Safety background comfort light and only consuming in the region of 4W to 6W dependent upon LedLite Linear kit sizes required. It is also possible to link the circuits for full output for switching or with dimmable driver systems if required.

As with the 'LedLite CC' the 'LedLite Linear' also has the Constant Voltage 12V DC Circuit for non-maintained emergency light with the same functions.

# Caprice Ledlite CC

DECORATIVE CIRCULAR LUMINAIRE



## APPLICATIONS

- > Corridor lighting
- > Stairwells
- > Receptions & entrance lobbies
- > Lounges
- > Bedrooms
- > Toilets

## FEATURES

- > Energy efficient with high output LED light source
- > Dual circuit PCB to enable background comfort light facility
- > Variable output options
- > Plug-in connector for mains supply
- > Decorative circular luminaire with a vented body to disperse heat
- > Quick release gear tray
- > Available in white, chrome, satin nickel & brass
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Available with integral LiFePO4 Lithium Battery Emergency Back-up system



## DESCRIPTION

The Caprice is a slimline decorative luminaire that has been designed for use in residential and commercial applications, providing energy efficient lighting with high output illumination. The luminaire is constructed from a spun steel body with quick release gear tray. Finished in satin white powder coat as standard. Supplied with a prismatic diffuser. See below for trim colour options.

The Caprice incorporates the Ledlite CC LED PCB providing a lifespan in the region of 100,000 hours.

**Caprice-LedLite CC-3/1-MicroMac** - Twin Circuit LedLite LED PCB and Drivers to enable switching

by the MicroMac Microwave Detector of full output only during occupancy, with low wattage secondary circuit providing permanent comfort light when unoccupied. Supplied with Clear Prismatic Diffuser.

**Caprice-LedLite CC-Dali Dim** - Linked Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by integral detector or remote dimmer switch. Supplied with Clear Prismatic Diffuser.

**Caprice-LedLite CC-MicroMac** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by the MicroMac

Microwave Occupancy Detector of the linked circuits and supplied with Clear Prismatic Diffuser.

**Caprice-LedLite CC** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by remote switch of the linked circuits. Supplied with Clear Prismatic Diffuser.

Also available is the **Caprice Ledlite CC -Triac Dim** to enable dimming from a recommended remote dimming switch.

**Caprice Mini Ledlite CC** also available with a diameter of 330mm.

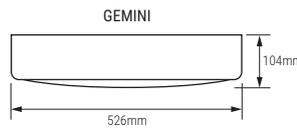
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Caprice LedLite CC / Caprice Recessed LedLite CC	22W	2000 lm	White* Satin Nickel Chrome Brass	3000k 4000k*	ø 435 mm x 110 mm H (25mm of height is hidden on recessed version)	SN - Satin Nickel CH - Chrome BS - Brass OPR - Opal Prismatic Diffuser REC - Recessed Body EM3/LP4 - Integral Emergency Pack
	26W*	2200 lm				
	28W	2460 lm				
Caprice Mini LedLite CC	16W	1600 lm			ø 330 mm x 110 mm H	
	18W*	1800 lm				
	20W	2020 lm				

\*Default specification.

# Gemini LedLite CC

DECORATIVE CIRCULAR LUMINAIRE WITH CEILING BACKWASH LIGHTING



## APPLICATIONS

- > Corridor Lighting
- > Stairwells
- > Reception and Entrance Lobbies
- > Lounges
- > Bedrooms

## FEATURES

- > Energy efficient with high output LED light source
- > Dual circuit PCB to enable background comfort light
- > Variable output options
- > Plug-in connector for mains supply
- > Decorative circular luminaire with vented back to disperse heat
- > Quick release gear tray
- > Available in white, chrome, satin nickel & brass
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Available with integral LiFePO4 Lithium Battery Back-up system



## DESCRIPTION

The **Gemini** is a Circular Slimline Decorative Luminaire that has been designed for use in residential and commercial applications providing energy efficient lighting with high output illumination. The luminaire is constructed from a spun steel body, quick release gear tray - finished in satin white powder coat and supplied with a prismatic diffuser. It is designed to provide both downward light illumination plus a backwash of light to the ceiling.

The **Gemini** incorporates the LedLite CC LED PCB, providing a lifespan in the region of 100,000 hours.

**Gemini LedLite CC-3/1-MicroMac** - twin Circuit LedLite LED PCB and Drivers to enable switching by the MicroMac Microwave Detector at full output only during occupancy, with low wattage secondary circuit providing permanent comfort light when unoccupied. Supplied with Clear Prismatic Diffuser.

**Gemini LedLite CC-Dali Dim** - Linked Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by integral detector or remote dimmer switch and supplied with Clear Prismatic Diffuser.

**Gemini LedLite CC-MicroMac** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by the MicroMac Microwave Occupancy Detector of the linked circuits. Supplied with Clear Prismatic Diffuser.

**Gemini LedLite CC** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by remote switch of the linked circuits. Supplied with Clear Prismatic Diffuser.

Also available is the **Gemini Ledlite CC -Triac Dim** to enable dimming from a recommended remote dimming switch.

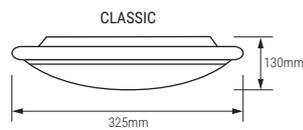
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Gemini LedLite CC 22W	22W	2000 lumens	White* Chrome Brass	3000k 4000k*	ø 526 mm x 104 mm H	CH - Chrome BS - Brass OPR - Prismatic Diffuser EM3/LP4 - Integral Emergency Pack RGB - Colour Change Ceiling Wash
Gemini LedLite CC 26W	26W*	2200 lumens				
Gemini LedLite CC 28W	28W	2460 lumens				

\*Default specification.

# Classic LedLite CC

IP65 DECORATIVE CIRCULAR LUMINAIRE FOR INTERNAL AND EXTERNAL APPLICATIONS



## APPLICATIONS

- > External Walkway and Patio Light
- > External under soffit and access corridor lighting
- > Corridor and Stairwell Lighting
- > Entrance Lobbies
- > Bathrooms and Toilets
- > Store Rooms

## FEATURES

- > IP65 Polycarbonate Decorative Circular Luminaire suitable for internal & external use
- > Energy efficient with high output LED light source
- > Dual circuit PCB to enable background comfort light
- > Variable output options
- > Plug-in connector for mains supply
- > Easy fit snap-on diffuser
- > Quick release gear tray
- > Finished with white trim
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Available with integral LiFePO4 Lithium Battery Emergency Back-up system



## DESCRIPTION

The Classic is an IP65 Circular Decorative Luminaire that has been designed for use in residential and commercial applications, providing energy efficient LED lighting with high output illumination. The luminaire is constructed with a polycarbonate body, hinged gear tray - finished with white trim and semi-transparent or opal polycarbonate diffuser.

The Classic incorporates the LedLite CC LED PCB, providing a lifespan in the region of 100,000 hours.

**Classic LedLite CC-3/1-MicroMac** - twin Circuit LedLite LED PCB and Drivers to enable switching

by the MicroMac Microwave Detector at full output only during occupancy, with low wattage secondary circuit providing permanent comfort light when unoccupied. Supplied with Semi-transparent Diffuser.

**Classic LedLite CC-Dali Dim** - Linked Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by integral detector or remote dimmer switch and supplied. Supplied with Semi-transparent Diffuser.

**Classic LedLite CC-MicroMac** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by the MicroMac

Microwave Occupancy Detector of the linked circuits. Supplied with Semi-transparent Diffuser.

**Classic LedLite CC** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by remote switch of the linked circuits. Supplied with Semi-transparent Diffuser.

Also available is the **Classic LedLite CC-Triac Dim** to enable dimming from a recommended remote dimmer switch - Classic LedLite Eco for areas where high performance is not essential.

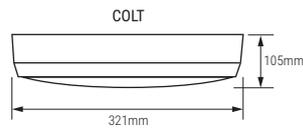
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Classic LedLite CC 20W	20W	1770 lm	White	3000k 4000k*	ø 325 mm x 130 mm H	OP - Opal Diffuser EM3/LP4 - Integral Emergency Pack
Classic LedLite CC 23W	23W*	2035 lm				
Classic LedLite CC 25W	25W	2260 lm				

\*Default specification.

# Colt LedLite CC

IP65 DECORATIVE CIRCULAR LUMINAIRE FOR INTERNAL AND EXTERNAL APPLICATIONS



## APPLICATIONS

- > External Walkway and Patio Light
- > External under soffit and access corridor lighting
- > Corridor and Stairwell Lighting
- > Entrance Lobbies
- > Bathrooms and Toilets
- > Store Rooms

## FEATURES

- > IP65 Polycarbonate Decorative Circular Luminaire suitable for internal & external use
- > Energy efficient with high output LED light source
- > Dual circuit PCB to enable background comfort light
- > Variable output options
- > Plug-in connector for mains supply
- > Twist and Lock diffuser
- > Integral gear tray
- > Finished with white trim
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Available with integral LiFePO4 Lithium Battery Emergency Back-up system



## DESCRIPTION

The **Colt** is an IP65 Circular Decorative Luminaire that has been designed for use in residential and commercial applications, providing energy efficient LED lighting with high output illumination. The luminaire is constructed with a polycarbonate body, integral gear tray - finished with white trim and opal polycarbonate diffuser that twists and locks to the back body of the luminaire.

The **Colt** incorporates the LedLite CC LED PCB, providing a lifespan in the region of 100,000 hours.

**Colt LedLite CC-3/1-MicroMac** - twin Circuit LedLite LED PCB and Drivers to enable switching by the

MicroMac Microwave Detector at full output only during occupancy, with low wattage secondary circuit providing permanent comfort light when unoccupied. Supplied with Semi-transparent Diffuser.

**Colt LedLite CC-Dali Dim** - Linked Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by integral detector or remote dimmer switch and supplied with Opal Diffuser.

**Colt LedLite CC-MicroMac** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by the MicroMac Microwave

Occupancy Detector of the linked circuits. Supplied with Semi-transparent Diffuser.

**Colt LedLite CC** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by remote switch of the linked circuits. Supplied with Semi-transparent Diffuser.

Also available is the **Colt LedLite CC-Triac Dim** to enable dimming from a recommended remote dimmer switch - **Colt LedLite Eco** for areas where high performance is not essential.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Colt LedLite ECO 14.5W	14.5W	1520 lm	White	3000k 4000k*	321 mm ø x 105 mm H	EM3/LP4 - Integral Emergency Pack
Colt LedLite CC 20W	20W	1770 lm				
Colt LedLite CC 23W	23W*	2035 lm				
Colt LedLite CC 25W	25W	2260 lm				

\*Default specification.

# Impala LedLite CC

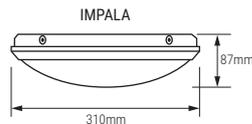
A LOW PROFILE, ROBUST VANDAL RESISTANT IP65 CIRCULAR LUMINAIRE FOR INTERNAL AND EXTERNAL APPLICATIONS



Skirt also available in black



Eyelid also available in white



## APPLICATIONS

- > External Walkway, Under Soffit and Patio Lighting
- > Access Corridor and Stairwell Lighting
- > Entrance Lobbies and Store Rooms
- > Bathrooms and Toilets

## FEATURES

- > Low Profile IP65 Polycarbonate Decorative Circular Luminaire for internal & external use
- > 4 side entry conduit points
- > Clip-on rings for Eyelid feature, Skirt trim and all available in black or white
- > Energy efficient high output LED light source
- > Dual circuit PCB to enable background comfort light
- > Variable output options
- > Plug-in connector for mains supply
- > Diffuser fixed with security screws
- > Easy to remove gear tray
- > Finished with white trim and opal diffuser
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Available with integral LiFePO4 Lithium Battery Back-up system



## DESCRIPTION

A Low Profile IP65 Circular Decorative Luminaire designed for applications requiring robust vandal resistant fittings for both internal and external use, providing energy efficient LED lighting with high output illumination. The luminaire is constructed with a polycarbonate body, integral gear tray - finished with white trim and Opal polycarbonate diffuser fixed in place with security screws. To facilitate conduit entry there are 4 x side access points positioned evenly around the base of the luminaire.

An important aspect of the Impala is the incorporation in the design of the clip-on ring providing flexibility of appearance with options of Eyelid or Skirt feature in Black or White.

The Impala incorporates the LedLite CC LED PCB, providing a lifespan in the region of 100,000 hours.

**Impala LedLite CC-3/1-MicroMac** - twin Circuit LedLite LED PCB and Drivers to enable switching by the MicroMac Microwave Detector at full output only during occupancy, with low wattage secondary circuit providing permanent comfort light when unoccupied. Supplied with Opal Diffuser.

**Impala LedLite CC-Dali Dim** - Linked Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by integral detector or remote dimmer switch and supplied with Opal Diffuser.

**Impala LedLite CC-MicroMac** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by the MicroMac Microwave Occupancy Detector of the linked circuits. Supplied with Opal Diffuser.

**Impala LedLite CC** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by remote switch of the linked circuits. Supplied with Opal Diffuser.

Also available is the **Impala LedLite CC-Triac Dim** to enable dimming from a recommended remote dimmer switch - **Impala LedLite Eco** for areas where high performance is not essential.

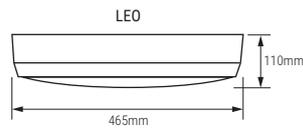
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Impala LedLite CC 16W	16W	1600 lm	White* Black with clip-on ring	3000k 4000k*	310 mm ø x 87 mm H	SKBLK - Skirt Trim Black
Impala LedLite CC 18W	18W*	1800 lm				SKWH - Skirt Trim White
Impala LedLite CC 20W	20W	2020 lm				ELIDBLK - Eyelid Black
						ELIDWH - Eyelid White
						EM3/LP4 - Integral Emergency Pack
						PC - Photocell

\*Default specification.

# Leo LedLite CC

VANDAL RESISTANT ROBUST DECORATIVE CIRCULAR LUMINAIRE



## APPLICATIONS

- > Corridor Lighting
- > Stairwells
- > Reception and Entrance Lobbies
- > Lounges
- > Bedrooms
- > Toilets

## FEATURES

- > Vandal resistant design with security screws to provide a fully enclosed luminaire
- > Energy efficient high output LED light source
- > Dual circuit PCB to enable background comfort light
- > Variable output options
- > Plug-in connector for mains supply
- > Decorative circular luminaire with vented back to disperse heat
- > Quick release gear tray
- > Available in white satin trim
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Available with integral LiFePO4 Lithium Battery Back-up system



## DESCRIPTION

The **Leo** is a Circular Slimline Decorative Luminaire that has been designed for applications requiring internal robust vandal resistant fittings, providing energy efficient lighting with high output illumination. The luminaire is constructed from a spun steel back body, quick release gear tray and spun steel straight edged front cover, with enclosed diffuser that is fixed into place with security screws. The **Leo** is ideal for use where luminaire access needs to be restricted. It is finished in satin white powder coat and supplied with a prismatic diffuser. The **Leo** incorporates the LedLite CC LED PCB, providing a lifespan in the region of 100,000 hours.

**Leo LedLite CC-3/1-MicroMac** - twin Circuit LedLite LED PCB and Drivers to enable switching by the MicroMac Microwave Detector at full output only during occupancy, with low wattage secondary circuit providing permanent comfort light when unoccupied. Supplied with Clear Prismatic Diffuser.

**Leo LedLite CC-Dali Dim** - Linked Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by integral detector or remote dimmer switch and supplied with Clear Prismatic Diffuser.

**Leo LedLite CC-MicroMac** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by the MicroMac Microwave Occupancy Detector of the linked circuits. Supplied with Clear Prismatic Diffuser.

**Leo LedLite CC** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by remote switch of the linked circuits. Supplied with Clear Prismatic Diffuser.

Also available is the **Leo LedLite CC-Triac Dim** to enable dimming from a recommended remote dimming switch.

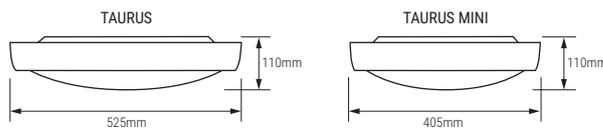
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Leo LedLite CC 22W	20W	2000 lumens	White	3000k 4000k*	ø 465 mm x 110 mm H	OPR - Opal Diffuser EM3/LP4 - Integral Emergency Pack
Leo LedLite CC 26W	26W*	2200 lumens				
Leo LedLite CC 28W	28W	2460 lumens				

\*Default specification.

# Taurus LedLite CC

ANTI-LIGATURE DECORATIVE CIRCULAR LUMINAIRE



## APPLICATIONS

- > Corridor Lighting
- > Stairwells
- > Reception and Entrance Lobbies
- > Lounges
- > Bedrooms
- > Toilets

## FEATURES

- > Anti-ligature design with Security Screws to provide a fully enclosed luminaire
- > Energy efficient high output LED light source
- > Dual circuit PCB to enable background comfort light
- > Variable output options
- > Plug-in connector for mains supply
- > Decorative circular luminaire with vented back to disperse heat
- > Quick release gear tray
- > Available in white satin trim
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Available with integral LiFePO4 Lithium Battery Back-up system



## DESCRIPTION

The Taurus is a Circular Slimline Decorative Luminaire that has been designed for applications where anti-ligature fittings are required, providing energy efficient lighting with high output illumination. The luminaire is constructed from a spun steel back body, quick release gear tray and spun diffuser ring that is fixed into place with security screws. Apart from the primary use as an anti-ligature luminaire, the Taurus is also suitable for applications where a more robust vandal resistant fitting is required and luminaire access needs to be restricted. It is finished in satin white powder coat and supplied with a prismatic diffuser.

The Taurus incorporates the LedLite CC LED PCB,

providing a lifespan in the region of 100,000 hours.

**Taurus LedLite CC-3/1-MicroMac** - twin Circuit LedLite LED PCB and Drivers to enable switching by the MicroMac Microwave Detector at full output only during occupancy, with low wattage secondary circuit providing permanent comfort light when unoccupied. Supplied with Clear Prismatic Diffuser.

**Taurus LedLite CC-Dali Dim** - Linked Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by integral detector or remote dimmer switch and supplied. Supplied with Clear Prismatic Diffuser.

**Taurus LedLite CC-MicroMac** - Linked Single

Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by the MicroMac Microwave Occupancy Detector of the linked circuits. Supplied with Clear Prismatic Diffuser.

**Taurus LedLite CC** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by remote switch of the linked circuits. Supplied with Clear Prismatic Diffuser.

Also available is the **Taurus LedLite -Triac Dim** to enable dimming from a recommended remote dimming switch

**Taurus Mini LedLite CC** also available with a diameter of 405mm.

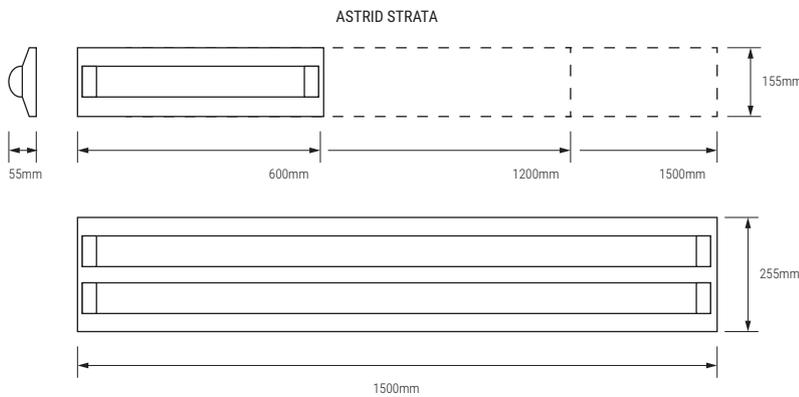
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Taurus LedLite CC	22W	2000 lm	White*	3000k 4000k*	ø 525 mm x 110 mm (H)	OPR - Opal Diffuser CH - Chrome Trim BS - Brass Trim EM3/LP4 - Integral Emergency Pack
	26W*	2200 lm				
	28W	2460 lm				
Taurus Mini LedLite CC	16W	1600 lm			ø 405 mm x 110 mm (H)	
	18W*	1800 lm				
	20W	2020 lm				

\*Default specification.

# Astrid Strata

LOW PROFILE SURFACE MOUNT LINEAR LED LUMINAIRE



## APPLICATIONS

- > Offices / Waiting & Meeting Rooms
- > Kitchens
- > Showrooms
- > Retail Front Store Lighting
- > Libraries / Classrooms
- > Laboratories
- > Warehousing & Stock Rooms

## FEATURES

- > Energy efficient with high output LED light source
- > Two component luminaire with steel back body and clip-in LED Modular with Plug-in connector for mains supply
- > Various sizes
- > Finished with white satin trim
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Available with integral LiFePO4 Lithium Battery Emergency Back-up system



## DESCRIPTION

The **Astrid Strata** is a low profile LED linear luminaire, designed for surface mounting, with the versatility of use in many applications. It is modern and sleek in appearance and is suitable for both commercial and domestic use. The **Astrid Strata** is a two component luminaire constructed with a steel back body, powder coated with a white finish and a clip-in LED PCB module with opal diffuser.

Available in a range of sizes the **Astrid Strata** is fitted with High Output LED SMD Chips and driven with an Osram or equivalent proprietary branded driver. Whilst supplied as standard with fixed output illumination, there are options to supply with dimmable drivers for remote switch dimming or via occupancy detection.

The **Astrid Strata** incorporates the LedLite Linear LED PCB, providing a lifespan in the region of 100,000 hours.

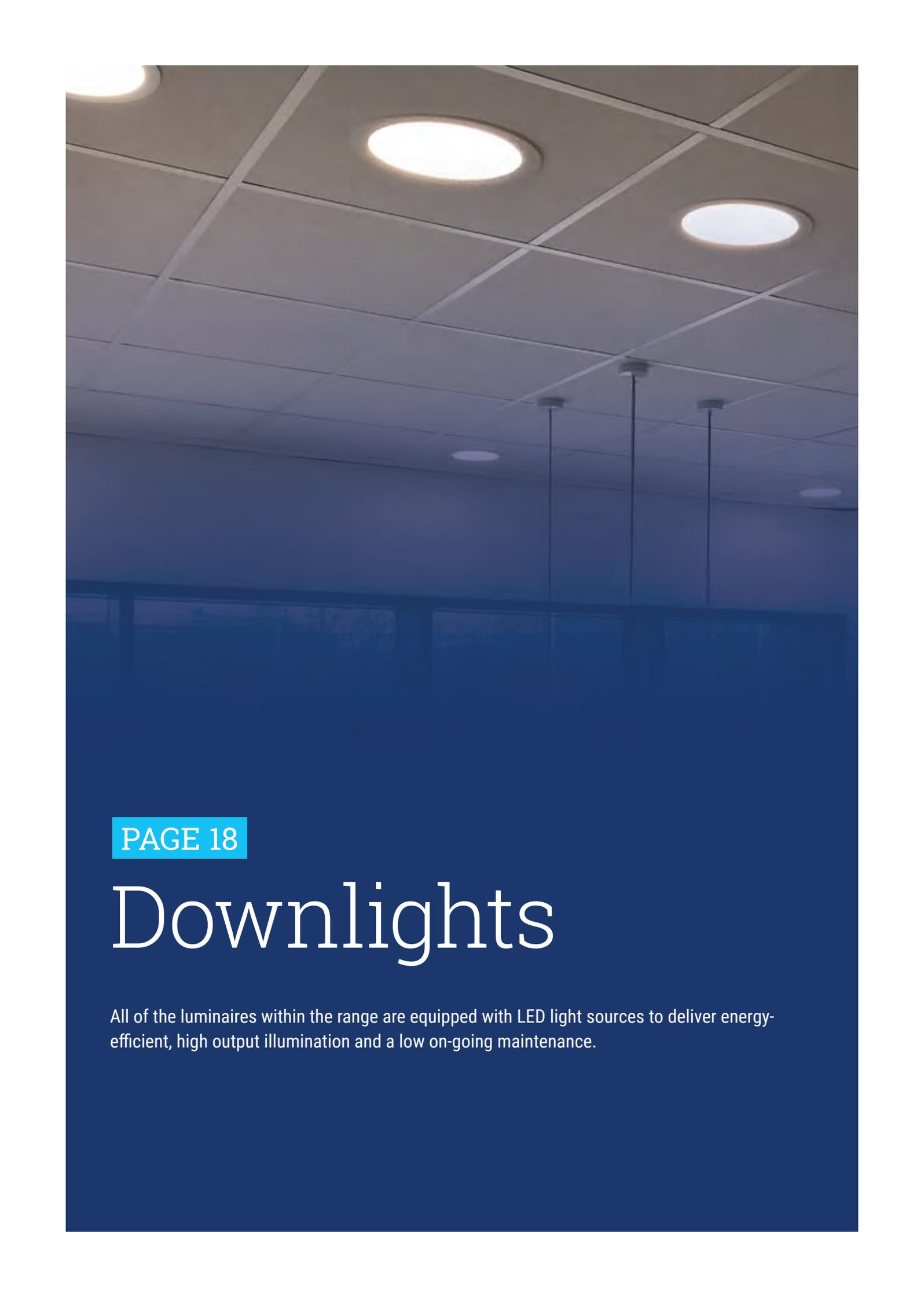
### Model Options

- Astrid Strata 060 - 600mm
- Astrid Strata 112 - 1200mm
- Astrid Strata 115 - 1500mm
- Astrid Strata 215 - Twin 1500mm

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
ASTRID-STRATA-060	18W	1620 lm	White*	3000k 4000k*	600 x 155 x 55 mm (H)	EM3/LP4 - Integral Emergency Pack
ASTRID-STRATA-112	36W	3250 lm			1200 x 155 x 55 mm (H)	
ASTRID-STRATA-115	45W	4500 lm			1500 x 155 x 55 mm (H)	
ASTRID-STRATA-215	90W	9000 lm			1500 x 255 x 55 mm (H)	

\*Default specification.



PAGE 18

# Downlights

All of the luminaires within the range are equipped with LED light sources to deliver energy-efficient, high output illumination and a low on-going maintenance.

# Sapphire LedLite

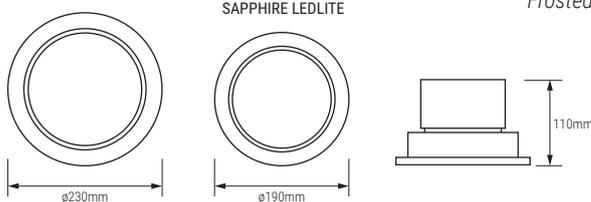
LED RECESSED DECORATIVE CIRCULAR LUMINAIRE FOR INTERNAL APPLICATIONS



Clear Glass Drop Glass



Frosted Halo Drop Glass



## APPLICATIONS

- > Reception Lighting
- > Hotel / Hospital Lighting
- > Corridor Lighting
- > Entrance Lobbies
- > Office Lighting

## FEATURES

- > Energy efficient high output LED light source
- > Fixed output or option of dual circuit PCB to enable background comfort light
- > Available with dimmable driver options
- > White trim finish and silver return feature
- > Compatible with remote occupancy and daylight control systems
- > Available with integral LiFePO4 Lithium Battery Back-up system



## DESCRIPTION

The **Sapphire LedLite** is a recessed circular LED Down-lighter based on one style of housing and providing a choice of two sizes of either 190mm or 230mm diameter. It is available in outputs of 20W or 30W with multi operational options from standard fixed output to various controlled systems. The LedLite PCB offers a single circuit PCB or twin circuit with two drivers for the 1/1 system, providing occupancy controlled lighting on the primary high output circuit and permanent comfort background light on the secondary low output circuit. Other options include 0V to 10V or Dali Dimming. The bezel is finished in white with a nominal return of a

specula flat silver reflector and recessed opal glass diffuser. All models suitable for Drop Glass options.

The Sapphire incorporates the LedLite LED PCB, providing a lifespan in the region of 100,000 hours.

**Sapphire LedLite** - single circuit LedLite PCB and Driver to enable switching by remote switch or occupancy detector. Available 20 Watt and 30 Watt with 190mm or 230mm diameter bezel.

**Sapphire LedLite-1/1** - Twin Circuit LedLite LED PCB and Drivers to provide occupancy control with comfort background light operated by remote detector such as the MicroTect. Available 20 Watt

and 30 Watt with 190mm or 230mm diameter bezel.

**Sapphire LedLite-Dali Dim** or 0V to 10V Dim - Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by remote detector or dimmer switch. Available 20 Watt and 30 Watt with 190mm or 230mm diameter bezel.

**Sapphire LedLite-Triac Dim** - Single Circuit LedLite LED PCB and Driver for remote dimming via a dimmer switch such as VariLight Pro. Check for compatible dimmers. Available 20 Watt and 30 Watt with 190mm or 230mm diameter bezel.

## TECHNICAL + OPTIONS

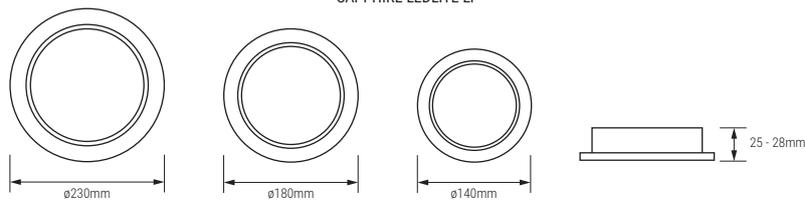
MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE	CUT-OUT SIZE	OPTION CODE SUFFIX
SAPPHIRE LEDLITE	20W	2010 lm	3000 - 6000k	ø 190 mm x 110 mm (H)	ø 175 mm ø 210 mm	DG003 - Drop Glass Clear glass with frosted etched centre DG006 - Drop Glass Frosted etched halo EM3/LP4 - Emergency Pack
	30W	3015 lm				
SAPPHIRE LEDLITE-1/1	20W	2010 lm				
	30W	3015 lm				
SAPPHIRE LEDLITE 0V TO 10V	20W	2010 lm				
	30W	3015 lm				
SAPPHIRE LEDLITE DALI DIM	20W	2010 lm				
	30W	3015 lm				
SAPPHIRE LEDLITE TRIAC DIM	20W	2010 lm				
	30W	3015 lm				

# Sapphire LedLite LP

LOW PROFILE LED RECESSED DECORATIVE CIRCULAR LUMINAIRE FOR INTERNAL APPLICATIONS



SAPPHIRE LEDLITE LP



## DESCRIPTION

The Sapphire LedLite LP is a low profile 28mm recessed circular LED Down-lighter for applications with shallow ceiling voids where flush mounting to a ceiling is preferred for discreet lighting effect. It is based on one style of housing with a range of three models. The LedLite is a single circuit LED PCB providing fixed output or options to dim via 0V to 10V, Dali or Triac Dim drivers. The bezel is finished in white and fitted with a flat opal glass diffuser. All models suitable for Drop Glass options.

The Sapphire LedLite LP incorporates the LedLite LED PCB, providing a lifespan in the region of 100,000 hours.

**Sapphire LedLite LP** - single circuit LedLite PCB and Driver to enable switching by remote switch or occupancy detector. Available 11 Watt, 18 Watt and 23 Watt with 140mm, 180mm and 230mm diameter bezel respectively.

**Sapphire LedLite LP - Dali Dim** or 0V to 10V Dim - Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by remote detector or dimmer switch. Available 11 Watt, 18 Watt and 23 Watt with 140mm, 180mm and 230mm diameter bezel respectively.

**Sapphire LedLite LP - Triac Dim** - Single Circuit LedLite LED PCB and Driver for remote dimming via a dimmer switch such as VariLight Pro. Check for compatible dimmers. Available 11 Watt, 18 Watt and 23 Watt with 140mm, 180mm and 230mm diameter bezel respectively.

## APPLICATIONS

- > Reception lighting
- > Hotel lighting
- > Corridor lighting
- > Entrance Lobbies
- > Office lighting
- > Hospital lighting

## FEATURES

- > Energy efficient with high output LED light source
- > Fixed output or dimmable options
- > Finished with white trim
- > Compatible with remote occupancy and daylight control systems
- > Available with integral LiFePO4 Lithium Battery Back-up system



Also available as Surface Mount version  
Code: **Sapphire-LedLite-SM**



A **SAPPHIRE** installation in a nursing home



## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE	CUT-OUT SIZE	OPTION CODE SUFFIX
SAPPHIRE LEDLITE LP	11W	1155 lm	3000 - 6000k	ø 140 mm x 25 mm (H)	ø 125 mm	<b>DG003</b> - Full Clear Drop Glass with frosted etched centre circle (Not available for 140mm diameter)  <b>DG006</b> - Frosted Drop Glass with etched halo (Not available for 140mm diameter)  <b>EM3/LP4</b> - Integral Emergency Pack
	18W	1890 lm		ø 180 mm x 27 mm (H)	ø 160 mm	
	23W	2415 lm		ø 230 mm x 28 mm (H)	ø 210 mm	
SAPPHIRE LEDLITE LP 0V TO 10V	11W	1155 lm	3000 - 6000k	ø 140 mm x 25 mm (H)	ø 125 mm	
	18W	1890 lm		ø 180 mm x 27 mm (H)	ø 160 mm	
	23W	2415 lm		ø 230 mm x 28 mm (H)	ø 210 mm	
SAPPHIRE LEDLITE LP DALI DIM	11W	1155 lm	3000 - 6000k	ø 140 mm x 25 mm (H)	ø 125 mm	
	18W	1890 lm		ø 180 mm x 27 mm (H)	ø 160 mm	
	23W	2415 lm		ø 230 mm x 28 mm (H)	ø 210 mm	
SAPPHIRE LEDLITE LP TRIAC DIM	11W	1155 lm	3000 - 6000k	ø 140 mm x 25 mm (H)	ø 125 mm	
	18W	1890 lm		ø 180 mm x 27 mm (H)	ø 160 mm	
	23W	2415 lm		ø 230 mm x 28 mm (H)	ø 210 mm	

# Astrid Pixie

LED RECESSED DECORATIVE CIRCULAR LUMINAIRE FOR INTERNAL APPLICATIONS



## APPLICATIONS

- > Reception lighting
- > Hotel lighting
- > Corridor lighting
- > Entrance Lobbies
- > Office lighting
- > Hospital lighting

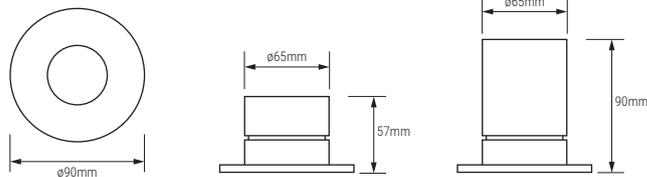
## FEATURES

- > Energy efficient with high output LED light source
- > Fixed output or dimmable options
- > Detachable bezel with options of white, satin silver and chrome
- > Compatible with remote occupancy and daylight control systems
- > Available with integral LiFePO4 Lithium Battery Emergency Back-up system
- > IP65 rated (Front facing)



ASTRID PIXIE 9W

ASTRID PIXIE 15W



## DESCRIPTION

The Astrid Pixie is a compact recessed circular LED Down-lighter incorporating single chip technology and ideal for applications suited to the replacement of halogen down-lights. Available with either 9 Watt or 15 Watt output the Astrid Pixie can be operated either as fixed output or if required to dim, fitted with a Triac Dimming Driver. It is constructed with a dedicated heat-sink and driver and designed with a

detachable bezel, supplied as standard in white but with options of Satin Silver or Chrome. Once installed the Astrid Pixie is IP65 rated from the front. The Astrid Pixie LED PCB provides a lifespan in the region of 100,000 hours.

**Astrid Pixie** - single chip LED PCB and Driver to enable switching by remote switch or occupancy detector. Available in 9 Watt and 15 Watt.

**Astrid Pixie-Triac Dim** - single chip LED PCB and Driver to enable switching by remote switch or occupancy detector for remote dimming via a dimmer switch such as VariLight Pro. Check for compatible dimmers. Available in 9 Watt and 15 Watt.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Astrid Pixie-9W	9 Watt	945 lm	White* Satin Silver Chrome	3000k 4000k*	ø 90 mm x 57 mm H ø 65 mm cutout	SS - Satin Silver CH - Chrome Triac Dim - Driver to operate with dimming switch EM3/LP4 - Emergency Pack
Astrid Pixie-15W	15 Watt	1575 lm			ø 90 mm x 90 mm H ø 65 mm cutout	

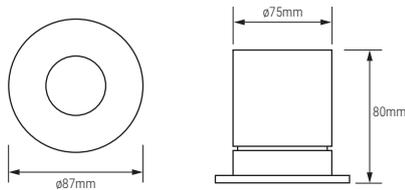
\*Default specification.

# Astrid Pixie 8W-CCT-FR

LED RECESSED FIRE RATED DOWNLIGHT FOR INTERNAL APPLICATIONS



ASTRID PIXIE 8W



## APPLICATIONS

- > Reception lighting
- > Hotel lighting
- > Corridor lighting
- > Entrance Lobbies
- > Office lighting
- > Hospital lighting

## FEATURES

- > Energy efficient with high output LED light source
- > Fire Rated
- > CCT colour change switch within the housing to provide warm, natural or cool white
- > Dimmable as standard
- > Detachable bezel with options of white, satin silver and chrome
- > Compatible with remote occupancy and daylight control systems
- > Available with integral LiFePO4 Lithium Battery Emergency Back-up system



Satin Silver Bezel



Chrome Bezel

## DESCRIPTION

The Astrid Pixie-8W-CCT-FR is a fire rated compact recessed circular LED Downlighter incorporating CCT colour change chip technology and ideal for applications suited to the replacement of halogen downlights. It is constructed with a dedicated heat sink, mounted within a polycarbonate housing containing the driver and designed with a detachable bezel, supplied in white as standard but with options of Satin Silver or Chrome.

The CCT colour change switches are located on the front face of the downlighter, concealed behind the removable bezel. This allows colour choice of warm, natural or cool white, all from one luminaire.

The Astrid Pixie-8W-CCT-FR LED PCB provides a lifespan in the region of 100,000 hours.

The Astrid Pixie-8W-CCT-FR is rated at 8W and supplied as standard with a dimmable driver, which

can be operated by a compatible dimmer switch or for On/Off switching only via a remote switch or occupancy detector.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Astrid Pixie-8W-CCT-FR	8 Watt	600 lm	White* Satin Silver Chrome	CCT switch options 2700K 4000K 6500K	ø 87 mm x 80 mm H ø 75 mm cutout	SS - Satin Silver CH - Chrome EM3/LP4 - Emergency Pack

\*Default specification.



PAGE 24

# Recessed

All of the luminaires within the range are equipped with LED light sources to deliver energy-efficient, high output illumination and a low on-going maintenance.

# Astrid ModuLite

RECESSED AND SURFACE MOUNT MODULAR LED LIGHT PANELS

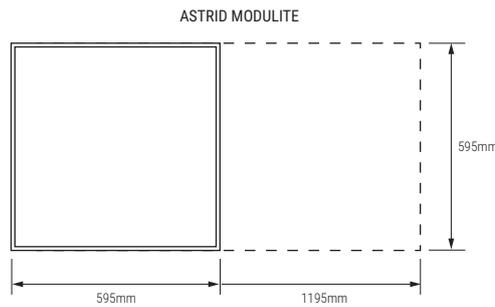


## APPLICATIONS

- > Office Lighting
- > Corridor Lighting
- > Shopping Centres
- > Retail

## FEATURES

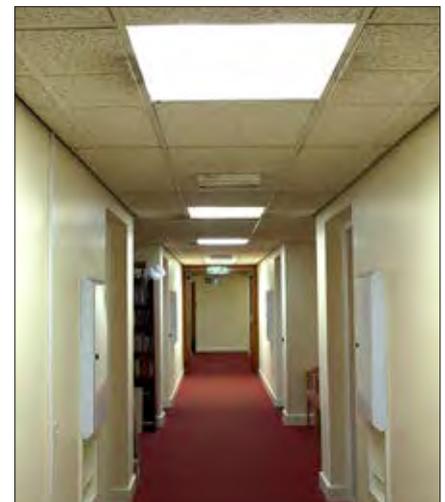
- > Energy efficient with significant savings over fluorescent modules
- > Variable output options
- > Supplied with driver options of fixed output and dimming
- > Compatible with occupancy and daylight control systems
- > Surface mount housing available
- > PMMA TPa(b) rated diffusers for building regulation requirements
- > Available with integral LiFePO4 Lithium Battery Emergency Back-up system



## DESCRIPTION

The Astrid ModuLite is a low profile LED Flat Panel for recessing into 600mm x 600mm and 1200mm x 600mm suspended ceiling grids to meet most applications for commercial lighting requirements. The slimline design features an extruded aluminium trim powder coated white, encasing the modular housing and finished with an opal diffuser to spread an even wash of light across the face of the luminaire.

At just 12mm deep the Astrid ModuLite offers the versatility of installation even in shallow ceiling voids. For solid ceiling applications surface mount housings are available. Each luminaire is supplied with a dedicated driver with options of fixed output or dimmable systems.



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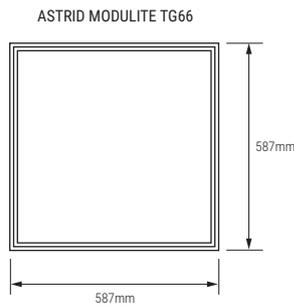
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	DIMMING OPTIONS	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Astrid ModuLite-66/40	40w	4000 lm	0V to 10V, Dali or Triac	White	3000K - 4000K* (6000K Cool White available to special order)	595mm L x 595mm W x 12mm D	0V-10V - Dimmable Dali - Dimmable Triac - Dimmable EM3/LP4 - Emergency Pack
Astrid ModuLite-126/60	60w	6000 lm				1195mm L x 595mm W x 12mm D	

\*Default specification.

# Astrid ModuLite TG66

EDGE LIT RECESSED FRAME LED PANEL FOR SUSPENDED CEILING GRIDS



## APPLICATIONS

- > Office Lighting
- > Corridor Lighting
- > Shopping Centres
- > Retail

## FEATURES

- > Energy efficient with significant savings over fluorescent modules
- > Suitable for replacement of most 3 and 4 tube 600mm x 600mm fluorescent modules
- > Standard 24mm 'T' Grid with 15mm 'T' Grid option
- > Other sizes available for special orders
- > Low weight of less than 1kg and flush mounting requiring virtually no ceiling void space
- > Designed to recess into T ceiling grid in conjunction with the tile
- > Variable output options
- > Supplied with driver options of fixed output and dimming
- > Compatible with occupancy and daylight control systems
- > Patented System
- > Full photometric data available and LG7 Compliant
- > Available with integral LiFePO4 Lithium Battery Emergency Back-up system



## DESCRIPTION

The Astrid ModuLite TG66 is a low profile LED luminaire for recessing into 600mm x 600mm suspended ceiling grids. This unique patented system provides high output illumination based on a channel strip linear frame that sits tightly against the ceiling grid offering an efficient and aesthetically pleasing luminaire suitable for most applications. The installation of the Astrid

ModuLite TG66 is such that the luminaire sits on the T-Grid and is designed for the ceiling tile to fit as normal, providing four sided channel lighting around the edges of the tile. Each luminaire is supplied with a dedicated driver with options of fixed output or dimmable systems.



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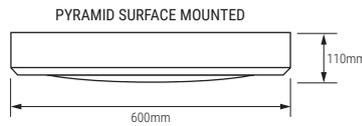
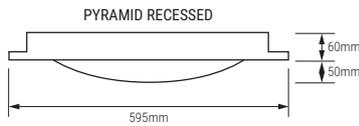
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Astrid ModuLite TG66	40w	4000 lm	White	4000K* (Options 3000K to 6000K)	Frame: 587 mm L x 587 mm W x 24 mm 'T' Grid*	0V-10V - Dimmable Dali - Dimmable Triac - Dimmable EM3/LP4 - Emergency Pack 15mm - Narrow 'T' Grid
					Frame: 587 mm L x 587 mm W x 15 mm 'T' Grid	

\*Default specification.

# Pyramid LedLite CC

DECORATIVE SQUARE LUMINAIRE WITH CIRCULAR DIFFUSER  
FEATURE FOR BOTH RECESSED AND SURFACE MOUNT APPLICATIONS



## DESCRIPTION

The Pyramid is a Square Decorative Luminaire that has been designed for use in residential and commercial applications providing energy efficient lighting with high output illumination. The luminaire is constructed from steel with a square either recessing into a 600mm x 600mm ceiling grid with tegular edge drop front or for surface mounting. It is supplied with a quick release gear tray and finished in satin white powder coat. The Pyramid features perforations in each corner, which can be covered integrally with coloured gel film, allowing for colour light wash through the perforations. The surface mount model has chamfered edging and both designs are fitted with a circular 415mm prismatic diffuser.

The Pyramid incorporates the LedLite CC LED PCB, providing a lifespan in the region of 100,000 hours.

**Pyramid LedLite CC-3/1-MicroMac** - twin Circuit LedLite LED PCB and Drivers to enable switching by the MicroMac Microwave Detector at full output only during occupancy, with low wattage secondary circuit providing permanent comfort light when unoccupied. Supplied with Clear Prismatic Diffuser.

**Pyramid LedLite CC-Dali Dim** - Linked Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by integral detector or remote dimmer switch and supplied with Clear Prismatic Diffuser.

## APPLICATIONS

- > Corridor Lighting
- > Stairwells
- > Reception and Entrance Lobbies
- > Lounges

## FEATURES

- > Energy efficient with high output LED light source
- > Dual circuit PCB to enable background comfort light
- > Variable output options
- > Plug-in connector for mains supply
- > 600mm x 600mm square decorative luminaire with a vented body to disperse heat and quick release gear tray
- > 4 cornered perforation design feature that can be covered integrally with gel film for colour wash
- > Available in white satin trim
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Available with integral LiFePO4 Lithium Battery Back-up system



**Pyramid LedLite CC-MicroMac** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by the MicroMac Microwave Occupancy Detector of the linked circuits. Supplied with Clear Prismatic Diffuser.

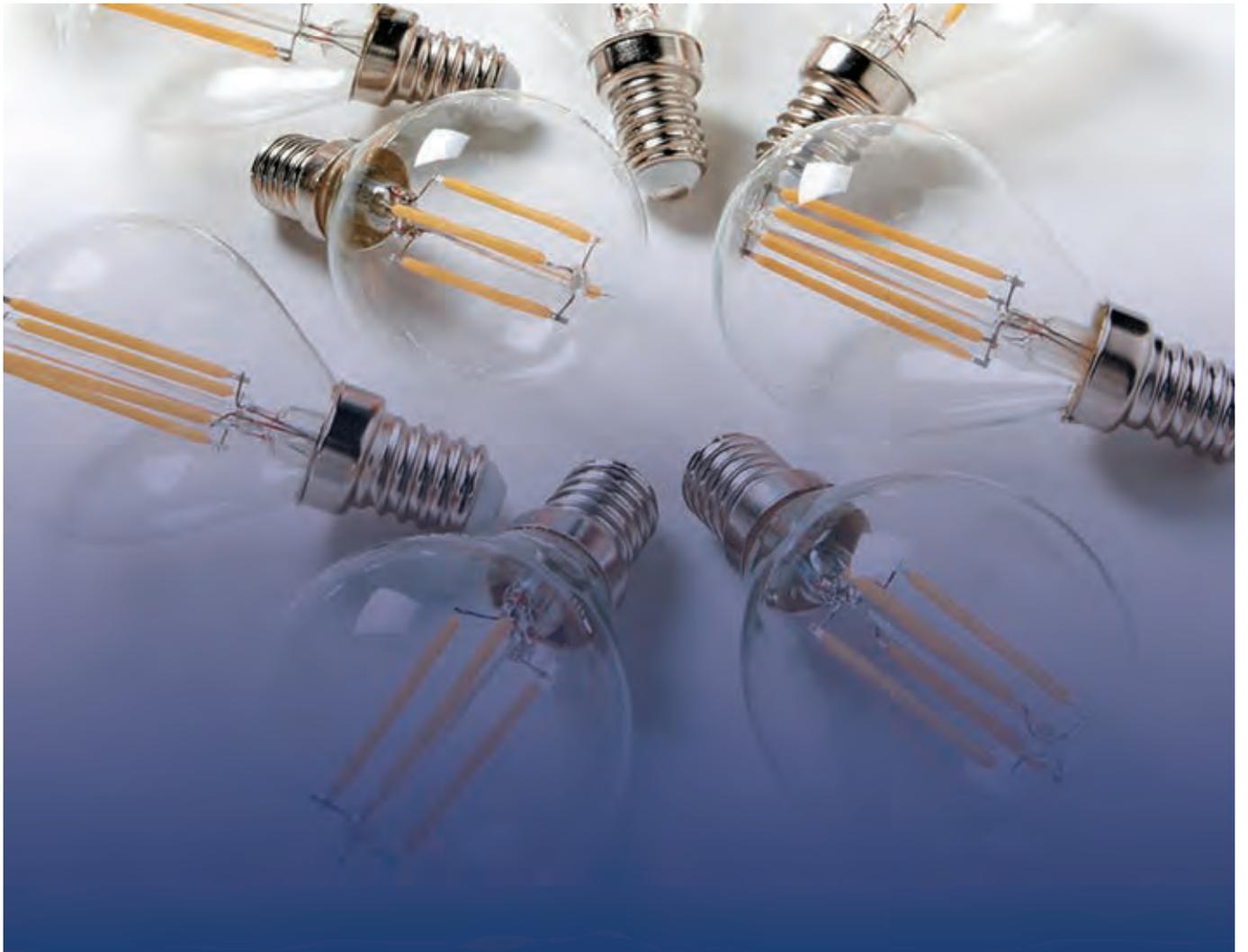
**Pyramid LedLite CC** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by remote switch of the linked circuits. Supplied with Clear Prismatic Diffuser.

Also available is the **Pyramid Ledlite CC-Triac Dim** to enable dimming from a recommended remote dimming switch.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE RECESSED / SURFACE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Pyramid LedLite CC 22W	22W	2000 lm	White	3000k 4000k*	Recessed version: 595 mm ø x 110 mm (of which 60mm is recessed)	SM - Recessed Fitting OPR - Opal Diffuser 15mm - 15mm Grid EM3/LP4 - Integral Emergency Pack
Pyramid LedLite CC 26W	26W*	2200 lm				
Pyramid LedLite CC 28W	28W	2460 lm			Surface version: 600 mm ø x 110 mm	

\*Default specification.



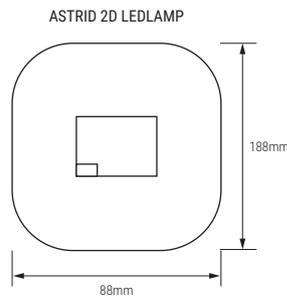
PAGE 28

# Lamps

All of the luminaires within the range are equipped with LED light sources to deliver energy-efficient, high output illumination and a low on-going maintenance.

# Astrid 2D LedLamp

LED RETROFIT REPLACEMENT FOR 2D COMPACT FLUORESCENT LAMPS



## DESCRIPTION

The **Astrid 2D LedLamp** has been specifically developed as an LED retrofit option to replace the commonly used 28W and 38W 2D compact fluorescent lamp. The design is such that it also has applications for installation into new luminaires at time of manufacture and can be supplied with a bespoke mounting bracket, incorporating lamp holder and terminal block, making it universal to fit most styles of circular or square lighting fixtures that are suitable for this type of lamp.

Whilst energy efficient in its own right as an LED lamp system, the **Astrid 2D LedLamp** offers not

only fixed output but also microwave sensor controlled models for occupancy control, either for 'On/Off' switching or "Dimming" to minimum output when unoccupied, providing background comfort light. These have various setting options to meet specific on-site requirements.

If required, the 2D LedLamp can be supplied with a bespoke mounting plate under reference MP2D, which is supplied with a 4 pin lamp-holder and terminal block. It is available as a single unit for or 2 piece with an extended flange for attaching the emergency module.

## APPLICATIONS

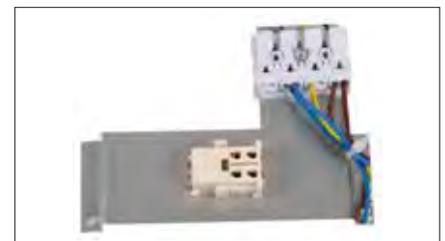
- > For general illumination in:
- > Commercial Buildings
- > Corridor and Lobby Lighting
- > Stairwell Lighting
- > 2D Bulkhead Lighting

## FEATURES

- > High output LED technology
- > Designed as a retrofit replacement for 28W or 38W 2D Compact Fluorescent Lamps
- > Energy Savings of up to 60% when compared with 2D lamps
- > Available with 'On/Off' and Dimming Systems for occupancy control via integral microwave sensor, providing enhance savings of up to 90%
- > Option for integral 3 hour emergency pack - suffix model code with EM3
- > Easy to install
- > Option of bespoke mounting bracket if required



Plate with EM driver



Single mounting plate

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Astrid 2D LedLamp	16w	1440 lm	3000 - 3500K (WW) 4000K (NW)	88 mm x 188 mm	SD - Integral microwave occupancy detection providing combination options of "On/Off" switching or dimming facilities (Fixed output as standard) EM3 - Integral Emergency Pack

\*Default specification.

# Astrid CornLamp

HIGH OUTPUT LED INDUSTRIAL LAMP



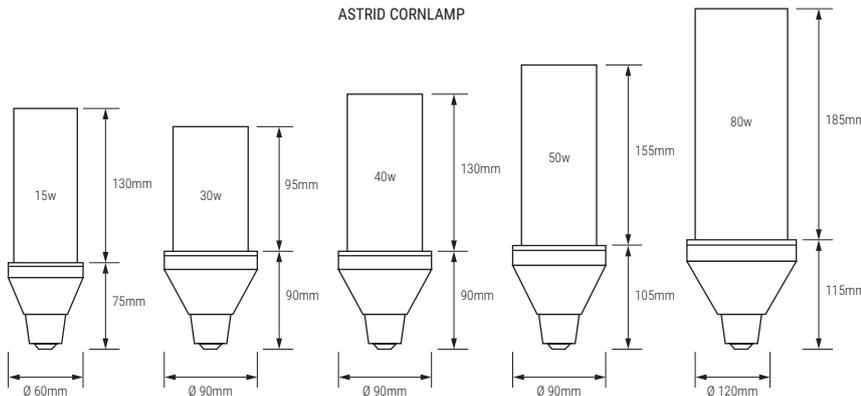
## APPLICATIONS

- > For general illumination in: Factories, Warehouses, Car Parks, Railway Stations, Street Lighting, Exhibition Centres, Shopping Malls

## FEATURES

- > LED with low energy consumption and low thermal output
- > Unique design energised via an Edison Screw Lamp-holder
- > Aluminium fin-shaped heat-sink and active air exchange cooling system to enhance heat dissipation
- > No UV or near-IR radiation in the light beam
- > Energy Savings of up to 75%
- > Ballast free, easy installation and simple to replace
- > Ideal replacement of high output discharge lamps
- > High Lumen output of 130-140lm/W

ASTRID CORNLAMP



RoHS

## DESCRIPTION

The **Astrid CornLamp** is designed as a high output LED light source to replace the lamp range used in discharge lighting, primarily in industrial applications. The installation of the lamp is simple and only requires mains supply direct to the

lamp-holder and if retro-fitting into an existing luminaire, by-passing any other component parts.

The outputs 15W to 40W are available with the option of E27 and E40 lamp bases and the 50W and 80W in E40 only. The **Astrid CornLamp** is a

suitable replacement for discharge lamps within Highbays, Lowbays, Street Lighting, Globes, Wall Packs and many others, providing a quick LED upgrade where full luminaire replacement is not practical.

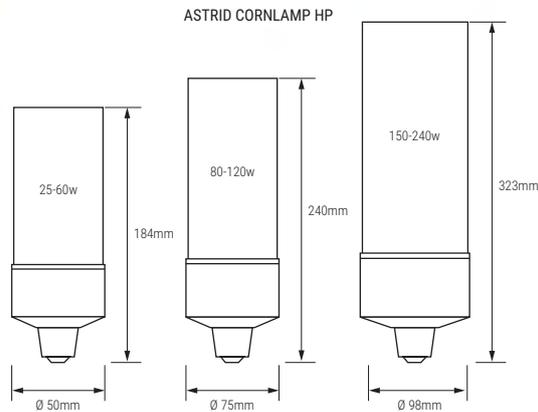
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE	LAMP BASE	OPTION CODE SUFFIX
Astrid CornLamp-15W	15w	2025 lm	6000K (CW) * 4000K (NW)	205mm x 60mm $\phi$	E27 or E40	
Astrid CornLamp-30W	30w	4050 lm		185mm x 90mm $\phi$	E27 or E40	
Astrid CornLamp-40W	40w	5400 lm		220mm x 90mm $\phi$	E27 or E40	
Astrid CornLamp-50W	50w	6750 lm		260mm x 90mm $\phi$	E40	
Astrid CornLamp-80W	80w	10800 lm		295mm x 120mm $\phi$	E40	

\*Default specification.

# Astrid CornLamp-HP

HIGH POWER LED INDUSTRIAL CORN LAMP



## APPLICATIONS

- > Supermarkets
- > Warehouses
- > Street lights
- > Garden Lighting
- > Bollards
- > Flood Lighting
- > Leisure Centres
- > Restaurants & Pubs

## FEATURES

- > Available from 25W to 240W
- > Colour Temp: 3000K/4000K/5000K/6000K
- > 115lm/W
- > 50,000Hrs
- > 360° Lighting
- > Compact and slim design
- > 4KV surge immunity and lightning protection
- > E27/E40 Caps provided
- > Internal coolant fan
- > Replacement for Metal Halide/HID/HPS lamps
- > 3 Year warranty



## DESCRIPTION

The Astrid CornLamp-HP is designed as a high output LED light source to replace the lamp range used in discharge lighting, primarily in industrial

applications such as Highbays, Lowbays, Street Lighting, Globes, Bollards, Wall Packs and many other luminaire types, providing a quick LED

upgrade where full luminaire replacement is not practical.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE L x D (MM)	LAMP BASE
ASTRID CORNLAMP-HP-25	25W	2875 lm	3000k 6000k	184 x 50	E27 or E40
ASTRID CORNLAMP-HP-35	35W	4025 lm			
ASTRID CORNLAMP-HP-50	50W	5750 lm			
ASTRID CORNLAMP-HP-54	54W	6210 lm			
ASTRID CORNLAMP-HP-60	60W	6900 lm			
ASTRID CORNLAMP-HP-80	80W	9200 lm	4000k 5000k	240 x 75	
ASTRID CORNLAMP-HP-100	100W	11,500 lm			
ASTRID CORNLAMP-HP-120	120W	13,800 lm			
ASTRID CORNLAMP-HP-150	150W	17,250 lm			
ASTRID CORNLAMP-HP-200	200W	23,000 lm		323 x 98	
ASTRID CORNLAMP-HP-240	240W	27,600 lm			

# Astrid LedLamp-PLC

LED LAMP DESIGNED TO REPLACE PLC COMPACT FLUORESCENT LAMPS



## APPLICATIONS

- > For general illumination in: Offices, Retail, Hotels, Airports, Railway Stations

## FEATURES

- > LED with low energy consumption and low thermal output
- > Lamp options to suit application with 8W available as standard or extra long plus 13W and energised via a G24 type lamp cap
- > Ballast free with aluminium heat-sink to enhance heat dissipation
- > Available with clear or frosted opal diffuser lens
- > Energy Savings of up to 75%
- > Easy installation and simple to replace
- > Lumen output of 110lm/W



## DESCRIPTION

The **Astrid LedLamp-PLC** is a lamp designed with SMD LED technology as an energy efficient replacement for PLC Compact Fluorescent Lamps. It is fitted with a 2 Pin Lamp cap that is suitable for push-in connection to a 2 pin or 4 pin G24/GX24 type lamp holder. Its applications are numerous; it is simple to retro-fit and is designed as a single sided unit that is populated with the SMD LED to

provide frontal directional lighting, avoiding back light loss. The lamp options cover 8 Watt and 13 Watt output and are fitted with an integral driver plus heat-sink to absorb heat generated by the LEDs.

For installation ensure the fitting is isolated from the mains supply and that the existing ballast is removed connecting the incoming supply direct to

the lamp holder inputs. The **Astrid LedLamp-PLC** is compatible with the G24 type lamp holders and where it is a 2 Pin lamp holder the Live and Neutral are connected to the lamp holder inputs - where it is a 4 Pin lamp holder, connect the Live and Neutral into the inputs that **Astrid LedLamp-PLC** Pins will be located. Note it is not polarity sensitive. It is recommended that the luminaire is fused.

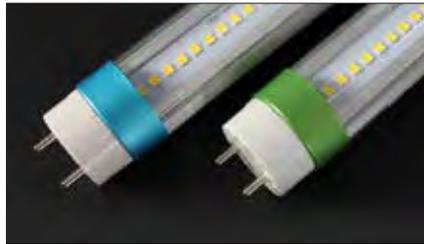
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Astrid LedLamp-PLC-8W	8w	880 lm	6000K (CW) 4000K (NW)	120mm (90mm excluding lamp cap) x 36mm ø	OP - Frosted Opal Lens (Clear as standard)
Astrid LedLamp-PLC-8W-EL	8w	880 lm		160mm (130mm excluding lamp cap) x 36mm ø	
Astrid LedLamp-PLC-13W	13w	1430 lm		160mm (130mm excluding lamp cap) x 36mm ø	

\*Default specification.

# Astrid LedTube

LED RETRO-FIT REPLACEMENT LAMPS FOR T5 AND T8 FLUORESCENT TUBES

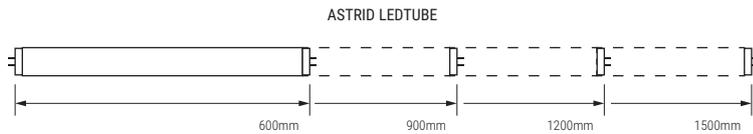


## APPLICATIONS

- > For LED upgrade of fluorescent tubes in: Factories, Warehouses, Car Parks, Railway Stations, Offices

## FEATURES

- > LED with low energy consumption and low thermal output
- > Options of T5 and T8 lamp sizes
- > Easy to fit
- > T5 supplied as kit with lamp and remote driver
- > T8 incorporates driver within the lamp
- > Energy Savings of up to 75%
- > High Lumen output of 110-150lm/W dependent on lamp model
- > Operates at 230/240V supply input



## DESCRIPTION

The **Astrid LedTube** is designed as a high lumen output retro-fit LED upgrade for fluorescent tubes covering both T5 and T8 lamp technology. The **Astrid LedTube** is suitable as a direct replacement and will fit into the existing lamp-holders, although

it is necessary to disconnect the existing ballast and re-wire direct to the lamp-holder.

The design consists of an aluminium housing, opal polycarbonate diffuser and caps that will rotate to

90°. The T8 tube incorporates both the driver and PCB within the full housing, whereas the T5 model requires a remote driver, which is supplied as a complete kit.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Astrid LedTube-HL-T5-10W	10w	1000 lm	4000K (NW) * 3000K-3500K (WW)	600mm L	
Astrid LedTube-HL-T5-12W	12w	1300 lm		900mm L	
Astrid LedTube-HL-T5-20W	20w	2100 lm		1200mm L	
Astrid LedTube-HL-T5-30W	30w	3200 lm		1500mm L	
Astrid LedTube-HL-T8-10W	10w	1400 lm		600mm L	
Astrid LedTube-HL-T8-18W	18w	2700 lm		1200mm L	
Astrid LedTube-HL-T8-25W	25w	3750 lm		1500mm L	

\*Default specification.

(The Astrid LedTube-HL T8 is available in lengths of 1800mm and 2400mm for special orders)

# Astrid SSL-30W

LED RETROFIT STREET LAMP



## APPLICATIONS

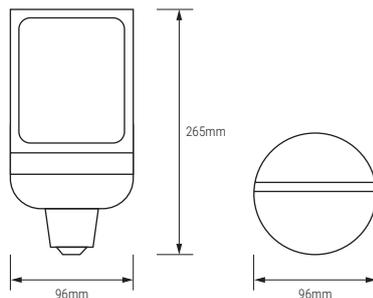
- > For retro-fit LED lamp upgrade of discharge street light heads

## FEATURES

- > LED with low energy consumption and low thermal output
- > Unique design energised via an Edison Screw Lamp-holder
- > 110-120lm/Watt
- > Aluminium fin-shaped heat-sink to enhance heat dissipation
- > Ballast free with all drivers integrally mounted within the Lamp for easy installation
- > Energy Savings of up to 75%
- > IP60 rated
- > Ideal replacement of high output discharge lamps



ASTRID SSL-30W



## DESCRIPTION

The **Astrid SSL-30W** Lamp is designed as a high output LED light source to provide LED Street Lighting at an affordable cost. Designed primarily as a retrofit lamp, but also suitable for new lighting projects, it offers the opportunity to upgrade HPS and Discharge lamps within Street Lights to energy efficient light with LEDs. The **Astrid SSL-30W** LED Lamp is fitted with an Edison screw lamp base with options of E27 or E40.

There are no remote drivers, as the **Astrid SSL-30W**

incorporates all components to drive the High Output LEDs within the lamp housing and is designed with an aluminium multi fin heat-sink to ensure good dissipation of heat generated by the LEDs. After disconnecting all existing ballasts, the lamp-holder within the Street Light Head is to be wired direct from the mains, preferably via a terminal block or connector plug, only requiring the **Astrid SSL-30W** to be screwed into position for lamp operation.



Retrofitted street lamps shown here

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Astrid SSL-30W	30w	3000 lm	6000K (CW) * 4000K (NW)	265mm L x 96mm ø	E27 - Lamp base E40 - Lamp base

\*Default specification.

# LedLite AC-Eco-12W

DRIVERLESS LED PCB FOR RETROFIT LUMINAIRE UPGRADES



## APPLICATIONS

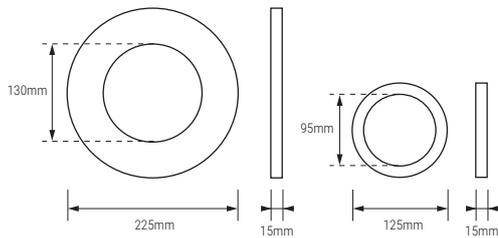
- > Corridors, Stairways, Store Rooms
- > Offices, Hotels, Restaurants, Retail
- > Social Housing, Care Homes, Apartments
- > Shopping Centres

## FEATURES

- > Energy efficient high output LED technology
- > Ideal to replace 28W or 38W 2D Compact Fluorescent Lamps
- > Energy Savings of up to 60% when compared with 2D lamps
- > Available with fixed output or occupancy control for 'On/Off' or dimming
- > Bespoke retrofit gear tray options
- > Easy to install
- > Available with 3 Hour LiFePO4 Lithium Battery Back-up with LedLite DC option



LEDLITE AC-ECO



LedLite AC Eco with DC support ring



LedLite AC Eco with DC support ring and MicroMac2



LedLite DC-3W-12V DC support ring for comfort/emergency lighting

## DESCRIPTION

The LedLite AC-Eco is a driverless LED PCB designed primarily as a retrofit light source to existing luminaires. It is supplied as a PCB base with a clip-on cover to protect against accidental touching of the live components mounted on the PCB. The LedLite AC-Eco is designed as either fixed output of the primary driverless PCB or occupancy controlled through the MicroMac2 microwave detector that can be located in the centre hole of the PCB. Also available is the option of the 12V DC LED ring, again designed to sit in the centre hole of the LedLite AC-Eco offering the option of permanent illumination for comfort light,

in the event the primary driverless PCB is occupancy controlled, or emergency light or a combination of both. The emergency version is supplied as standard with Lithium LiFePO4 - 3.2V - 3Ah batteries providing a long life, energy efficient emergency lighting support system.

The **LedLite AC-Eco** can be mounted onto an existing flat gear tray or supplied in a kit format with a dedicated gear tray and connectors if required. The measurement of the LedLite AC-Eco-12W providing 1200 lumens is 225mm diameter - the optional gear tray, is overall 265mm diameter.

**LedLite DC-3W-12V** is the inner LED support ring based on 12V DC requiring a driver and/or emergency module to operate.

**Note:** Due to the nature of the LedLite AC Eco being a driverless system, the LED array operates at 230V and such must always be protected with the bespoke, clear, polycarbonate cover and always isolated from the mains power supply before accessing.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	TOTAL LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
LedLite AC-Eco-12W*	12W	1200 lm	3000k (WW) 4000k (NW)	ø 225 mm (Centre hole ø 130 mm)	EM3/LP4 - Integral Emergency Pack for LedLite DC Circuit only
LedLite DC-3W-12V	3W	240 lm		ø 125 mm (Centre hole ø 95 mm)	

\*Designed to allow DC ring to fit in the centre of the AC PCB and for the MicroMac2 detector to sit in the centre.

# Light Bulb Range

The Morgan Hope range of LED Lamps and Bulbs is extensive to cover most applications from domestic through to commercial including a specialist range for pubs, restaurants, hotels and the leisure industry. The bulbs cover the standard GLS, Golf Ball and Candle types, with a more bespoke range of speciality lamps for commercial use. The range is designed with LED filaments that are fitted as standard with dimmable circuitry to enable use in most application requirements and available, where shown, as clear, opal, amber tinted or coloured.

The Lamp range extends to halogen replacements such as LED based GU10 and G9 and as the range is ever expanding, always check to see what has been added through our ongoing design and technology updates.

Some of our light bulbs are available in various colours as listed in the specification



## Golf Ball Lamp

- > 4w filament technology
- > Dimmable as standard
- > Extensive colour range temperature: 2200K / 2700K / 3000K / 4000K / 5000K
- > Available in Clear (standard) or Opal - if Opal required suffix at end of model code.
- > 360° light output
- > Lamps can be coated with colour finish: Amber / Red / Blue / Yellow / Green
- > Lamp base: SES-E14 / E27 / B22 / SBC
- > High quality LED filament technology to ensure a long life of approx 15,000 hours.
- > 100 lm/Watt (note reduction when coated of approximately 30% for Amber and 50% for solid colours).

MODEL CODE	WATTAGE	LUMENS	BASE TYPES	COLOUR TEMPERATURES	COLOUR OPTIONS
Golf Ball-G45	4w	100 lm/watt Note: Coloured bulbs have reduced output	SES-E14 E27 B22 SBC	2200K 2700K 3000K 4000K 5000K	Opal finish Amber finish Red finish Blue finish Yellow finish Green finish



## GLS-A60

- > 4W filament technology
- > Dimmable as standard
- > Extensive colour range temperature: 2200K / 2700K / 3000K / 4000K / 5000K
- > Available in Clear (standard) or Opal - if Opal required suffix at end of model code.
- > 360° light output
- > Lamps can be coated with colour finish: Amber / Red / Blue / Yellow / Green
- > Lamp base: E27 / B22
- > High quality LED filament technology to ensure a long life of approx 15,000 hours.
- > 100 lm/Watt (note reduction when coated of approximately 30% for Amber and 50% for solid colours)

MODEL CODE	WATTAGE	LUMENS	BASE TYPES	COLOUR TEMPERATURES	COLOUR OPTIONS
GLS-G60	4w	100 lm/watt Note: Coloured bulbs have reduced output	E27 B22	2200K 2700K 3000K 4000K 5000K	Opal finish Amber finish Red finish Blue finish Yellow finish Green finish



## G80 Globe Lamp

- > 4W filament technology
- > Dimmable as standard
- > Extensive colour range temperature: 2200K / 2700K / 3000K / 4000K / 5000K
- > Available in Clear
- > Lamps can be coated with colour finish: Amber
- > Lamp base: E27
- > 80mm diameter
- > 360° light output
- > High quality LED filament technology to ensure a long life of approx 15,000 hours.
- > 100 lm/Watt (note reduction when coated of approximately 30% for Amber)

MODEL CODE	WATTAGE	LUMENS	BASE TYPES	COLOUR TEMPERATURES	COLOUR OPTIONS
G80 Globe	4w	100 lm/watt Note: Coloured bulbs have reduced output	E27	2200K 2700K 3000K 4000K 5000K	Amber finish



## G90 Globe Lamp

- > 4W filament technology
- > Dimmable as standard
- > Extensive colour range temperature: 2200K / 2700K / 3000K / 4000K / 5000K
- > Available in Clear
- > Lamps can be coated with colour finish: Amber
- > Lamp base: E27
- > 90mm diameter
- > 360° light output
- > High quality LED filament technology to ensure a long life of approx 15,000 hours.
- > 100 lm/Watt (note reduction when coated of approximately 30% for Amber)

MODEL CODE	WATTAGE	LUMENS	BASE TYPES	COLOUR TEMPERATURES	COLOUR OPTIONS
G90 Globe	4w	100 lm/watt Note: Coloured bulbs have reduced output	E27	2200K 2700K 3000K 4000K 5000K	Amber finish



## G125 Globe Lamp

- > 4W filament technology
- > Dimmable as standard
- > Extensive colour range temperature: 2200K / 2700K / 3000K / 4000K / 5000K
- > Available in Clear
- > Lamps can be coated with colour finish: Amber
- > Lamp base: E27
- > 125mm diameter
- > 360° light output
- > High quality LED filament technology to ensure a long life of approx 15,000 hours.
- > 100 lm/Watt (note reduction when coated of approximately 30% for Amber)

MODEL CODE	WATTAGE	LUMENS	BASE TYPES	COLOUR TEMPERATURES	COLOUR OPTIONS
G125 Globe	4w	100 lm/watt Note: Coloured bulbs have reduced output	E27	2200K 2700K 3000K 4000K 5000K	Amber finish



## Candle Lamp

- > 4w filament technology
- > Dimmable as standard
- > Extensive colour range temperature: 2200K / 2700K / 3000K / 4000K / 5000K
- > Available in Clear (standard) or Opal - if Opal required suffix at end of model code
- > 360° light output.
- > Lamps can be coated with colour finish: Amber / Red / Blue / Yellow / Green
- > Lamp base: SES-E14 / E27 / B22 / SBC
- > High quality LED filament technology to ensure a long life of approx 15,000 hours.
- > 100 lm/Watt (note reduction when coated of approximately 30% for Amber and 50% for solid colours).

MODEL CODE	WATTAGE	LUMENS	BASE TYPES	COLOUR TEMPERATURES	COLOUR OPTIONS
Golf Ball-G45	4w	100 lm/watt Note: Coloured bulbs have reduced output	SES-E14 E27 B22 SBC	2200K 2700K 3000K 4000K 5000K	Opal finish Amber finish Red finish Blue finish Yellow finish Green finish



## Squirrel Lamp

- > 4W filament technology
- > Dimmable as standard
- > Extensive colour range temperature: 2200K / 2700K / 3000K / 4000K / 5000K
- > Available in Clear (standard)
- > Lamps can be coated with colour finish: Amber (shown)
- > Lamp base: E27
- > Pear Shaped with length of 145mm length x 65mm diameter
- > 360° light output
- > High quality LED filament technology to ensure a long life of approx 15,000 hours.
- > 100 lm/Watt (note reduction when coated of approximately 30% for Amber)

MODEL CODE	WATTAGE	LUMENS	BASE TYPES	COLOUR TEMPERATURES	COLOUR OPTIONS
Squirrel Lamp	4w	100 lm/watt Note: Coloured bulbs have reduced output	E27	2200K 2700K 3000K 4000K 5000K	Amber finish



## T30-Tubular Lamp

- > 4W filament technology
- > Dimmable as standard
- > Extensive colour range temperature: 2200K / 2700K / 3000K / 4000K / 5000K
- > Available in Clear (standard)
- > Lamps can be coated with colour finish: Amber
- > Lamp base: E27
- > Linear tubular lamp at 223mm length x 30mm diameter
- > 360° light output
- > High quality LED filament technology to ensure a long life of approx 15,000 hours.
- > 100 lm/Watt (note reduction when coated of approximately 30% for Amber)

MODEL CODE	WATTAGE	LUMENS	BASE TYPES	COLOUR TEMPERATURES	COLOUR OPTIONS
T30 Tubular	4w	100 lm/watt Note: Coloured bulbs have reduced output	E27	2200K 2700K 3000K 4000K 5000K	Amber finish



## Filament GLS Lamp

- > 6W filament LED GLS lamp.
- > Equivalent of a 60W halogen lamp.
- > Dimmable.

- > High quality LED filament technology to ensure a long life of approx 15,000 hours.
- > 360° degrees light output.

MODEL CODE	WATTAGE	LUMENS	BASE TYPE	COLOUR TEMPERATURE	DIMMABLE
LFM052-6W	6w	810 lm	B22	2700K	YES
LFM053-6W	6w	810 lm	E27	2700K	YES



## GU10 LED

- > LED GU10 lamp, a direct replacement for the discontinued 50W halogen.
- > Warm white / cool white light output.

- > Dimmable.
- > Plastic and aluminium heat sink and injection moulded diffuser.

MODEL CODE	WATTAGE	LUMENS	BASE TYPE	COLOUR TEMPERATURE	DIMMABLE
LFM054-WW	7w	500 lm	GU10	2700K	YES
LFM054-NW	7w	530 lm	GU10	4000K	YES
LFM054-CW	7w	550 lm	GU10	6500K	YES



## LED PL Lamp

- > A direct LED solution to replace a fluorescent PL lamp.
- > Available in 13w and 5w.

- > Colour options of warm white, natural white and cool white.
- > High output LED light.

MODEL CODE	WATTAGE	LUMENS	BASE TYPE	COLOUR TEMPERATURE	DIMMABLE
LFM006-3K	8w	860 lm	G x 24	3000K	NO
LFM005-3K	13w	1400 lm	G x 24	3000K	NO
LFM006-4K	8w	890 lm	G x 24	4000K	NO
LFM005-4K	13w	1430 lm	G x 24	4000K	NO
LFM006-6K	8w	920 lm	G x 24	6000K	NO
LFM005-6K	13w	1460 lm	G x 24	6000K	NO



## G9 LED

- > G9 LED capsule lamp, a direct replacement for the 50W halogen.

- > Great energy savings at only 4W
- > Ceramic body with excellent heat emission

MODEL CODE	WATTAGE	LUMENS	BASE TYPE	COLOUR TEMPERATURE	DIMMABLE
LFM055-4W	4w	220 lm	G9	2700K	NO

# Liteflow Flexistrip

FLEXIBLE COB LED STRIP FOR CONTINUOUS LIGHT OUTPUT



## APPLICATIONS

- > Edge Lighting
- > Cabinets
- > Under work tops
- > Retail
- > Plinth Lighting
- > Staircases
- > Building Feature Lighting



## DESCRIPTION

With the LiteFlow Flexistrip up to 10-metre runs are achievable using a 200W LED driver. With cut points every 60mm

It can be made to suit many applications.

The LiteFlow Flexistrip gives a continuous light emission with no 'spotting' that is experienced with other forms of LED strip.

Direct mount or a wide range of mounting profiles are available depending on the application.

## DRIVERS

DRIVER	WATTAGE	OUTPUT	IP RATING
ELG-200-24V-(D)	200 Watts	24VDC	IP65
LPV-150-24V-(D)	150 Watts	24VDC	IP65
LPV-150-24V-(D)	100 Watts	24VDC	IP65
DR-CV-60-24V-(D)	60 Watts	24VDC	IP20 / IP65
DR-CV-40-24V-(D)	40 Watts	24VDC	IP20 / IP65

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	VOLTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	CRI	OVERALL SIZE	OPTION CODE SUFFIX
LITEFLOW FLEXISTRIP	15 Watts/MTR	24VDC	90 lm/w	3000K 4000K 6000K	CRI80	5000mm (W) x 10mm (D)	D - Dimmable

\*Default specification.



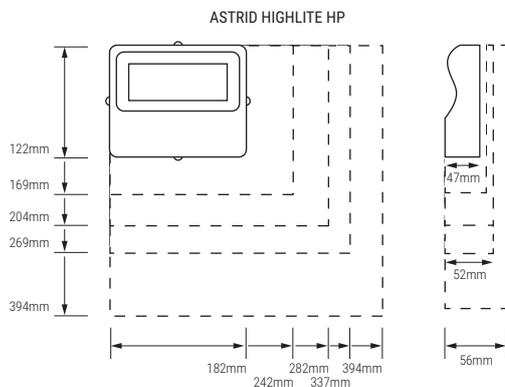
PAGE 41

# Exterior Lighting

All of the luminaires within the range are equipped with LED light sources to deliver energy-efficient, high output illumination and a low on-going maintenance.

# Astrid Highlite HP

HIGH POWER LED FLOODLIGHT RANGE



## APPLICATIONS

- > Warehouses, car parks and garages
- > Apartments, factories and retail
- > Security and sign lighting
- > Building feature lighting
- > Street and walkway lighting

## FEATURES

- > Energy Efficient with significant energy savings over discharge & halogen lighting
- > Reduction in consumption of up to 92%
- > Compatible with controls such as timers, dusk to dawn photocells and occupancy sensors
- > IP rated against water ingress
- > Various LED output options with life expectancy between 50,000 & 70,000 hrs
- > Immediate strike up
- > IP rated against water ingress
- > Range of models from 20 Watts to 150 Watts to meet most applications



## DESCRIPTION

The LED solution for Energy Efficient Floodlighting and Industrial lighting requirements.

The Astrid HighLite HP is a versatile range of LED Lighting Systems specifically developed to meet most applications of Flood, Security and Building Accent Lighting. This comprehensive range is designed using high performance driver technology

operating

Philips LED chipset, with power ratings from 20 Watts through to 150 Watts. It is designed with a robust housing for applications such as car parks, areas subject to potential vandalism or industrial environments.

Energy efficiency with reduced maintenance is of prime importance and the Astrid HighLite HP Range offers multiples of options to replace discharge and halogen lighting. Unlike discharge lighting the LED light source provides immediate illumination on striking and operates at full output in freezing environments.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
ASTRID HIGHLIGHT HP-20W	20 Watts	2400 lm	Black	2700k 3000k 4000k 5000k* 6000k	182(W) x 122(L) x 47 mm (D)	PC - Photocell option
ASTRID HIGHLIGHT HP-30W	30 Watts	3600 lm			242(W) x 169(L) x 51 mm (D)	
ASTRID HIGHLIGHT HP-50W	50 Watts	6000 lm			282(W) x 204(L) x 52 mm (D)	
ASTRID HIGHLIGHT HP-80W	80 Watts	9600 lm			337(W) x 269(L) x 52 mm (D)	
ASTRID HIGHLIGHT HP-100W	100 Watts	12000 lm			337(W) x 269(L) x 52 mm (D)	
ASTRID HIGHLIGHT HP-150W	150 Watts	18000 lm			394(W) x 394(L) x 56 mm (D)	

\*Default specification.

# Astrid HighLite Eco

DRIVERLESS LED FLOODLIGHT RANGE



## APPLICATIONS

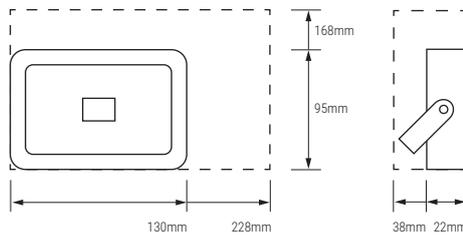
- > Warehouses
- > Car Parks & Garages
- > Sign Lighting
- > Street
- > Factories & Retail
- > Apartments
- > Security

## FEATURES

- > Energy Efficient
- > Reduces consumption up to 92%
- > Compatible with controls
- > IP rated
- > Life expectancy 50,000 - 70,000 hours
- > Immediate strike up
- > Meets most applications



ASTRID HIGHLITE ECO



## DESCRIPTION

The Astrid HighLite Eco Driverless LED Floodlight range is constructed with a slimline aluminium housing to IP65 and fitted with a glass lens to provide 120° light spread. It is available in a range of wattages, supplied as Black or White.

The Astrid HighLite Eco comprises of a versatile range of LED Lighting Systems specifically designed to meet most applications of Flood,

Security and Building Accent Lighting, plus high output illumination requirements.

The comprehensive range starts at just 10 Watts extending through to 50 Watts and fitted with the latest technology in driverless single high output multi lamp LEDs that are driven directly at 230/240V.



Also available in white

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Astrid-HighLite-Eco-10W	10w	950 lm	Black* White	2700K 4000K* 6000K	130 mm W x 95 mm H x 22 mm D	WH - White version PC - Photocell option
Astrid-HighLite-Eco-30W	30w	2800 lm			228 mm W x 168 mm H x 38 mm D	
Astrid-HighLite-Eco-50W	50w	4700 lm			228 mm W x 168 mm H x 38 mm D	

\*Default specification.

# Bravo

IP 65 WALL PACK FOR EXTERIOR LIGHTING

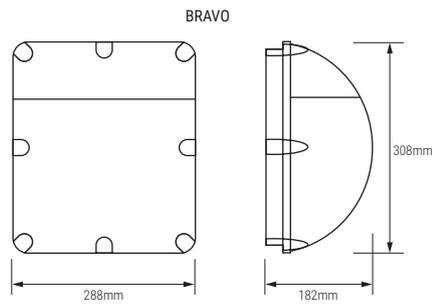


## APPLICATIONS

> Designed for external wall light applications.

## FEATURES

- > Energy efficient with LED light source
- > Vandal Resistant
- > Finished with Black trim
- > Suitable for external use
- > IP65 Rating
- > Designed for full output On/Off switching only
- > Dusk to Dawn photocell option
- > Available with integral LiFePO4 Lithium Battery Emergency Back-up system
- > 11W and 30W versions offering 1320 lm & 3600 lm



## DESCRIPTION

The **Bravo** is an IP65 wall pack constructed in polycarbonate with black base and hood and clear reeded diffuser. The **Bravo** provides indirect down light to avoid unnecessary light pollution. It is available with integral photocell for dusk to dawn operation.



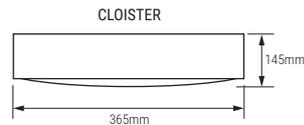
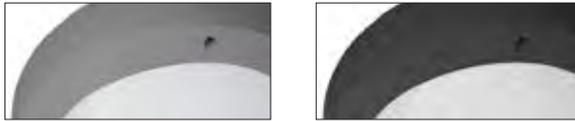
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Bravo 11	11W	1320 lm	Black	3000k 4000k*	308 mm H x 288 mm W x 182 mm D	PC3-LED - Dusk to Dawn Photocell EM3/LP4 - Integral Emergency Pack
Bravo 30	30W	3600 lm				

\*Default specification.

# Cloister LedLite CC

A ROBUST CAST VANDAL RESISTANT IP65 CIRCULAR LUMINAIRE FOR INTERNAL AND EXTERNAL APPLICATIONS



## APPLICATIONS

- > External Walkway and Patio Light
- > External under soffit and access corridor lighting
- > Corridor and Stairwell Lighting

## FEATURES

- > IP65 Aluminium Cast Circular Luminaire suitable for internal and external use
- > Available with open face diffuser or eyelid
- > Energy efficient with high output LED light source
- > Dual circuit PCB to enable background comfort light
- > Variable output options
- > Plug-in connector for mains supply
- > Diffuser mounted in cast housing and fixed to base with security screws
- > Easy to remove gear tray
- > Finished with grey, white or black trim
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Available with integral LiFePO4 Lithium Battery Emergency Back-up system



## DESCRIPTION

The **Cloister** is an IP65 Circular Decorative Luminaire designed for applications requiring robust vandal resistant fittings for both internal and external use, providing energy efficient LED lighting with high output illumination. The luminaire is constructed with a cast base, integral gear tray and semi-transparent diffuser in a cast housing that is fixed to the base with security screws - ideal for use where luminaire access needs to be restricted. It is available in grey or white as standard and supplied with either an open face or with an Eyelid.

The **Cloister** incorporates the LedLite CC LED PCB, providing a lifespan in the region of 100,000 hours.

**Cloister LedLite CC-3/1-MicroMac** - twin Circuit LedLite LED PCB and Drivers to enable switching by the MicroMac Microwave Detector at full output only during occupancy, with low wattage secondary circuit providing permanent comfort light when unoccupied. Supplied with Semi-transparent Diffuser.

**Cloister LedLite CC-Dali Dim** - Linked Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by integral detector or remote dimmer switch and supplied with Semi-transparent Diffuser.

**Cloister LedLite CC-MicroMac** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by the MicroMac Microwave Occupancy Detector of the linked circuits. Supplied with Semi-transparent Diffuser.

**Cloister LedLite CC** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by remote switch of the linked circuits. Supplied with Semi-transparent Diffuser.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Cloister LedLite CC 20W	20W	2080 lm	White* Grey Black	3000k 4000k*	365 mm ø x 145 mm H	OP - Opal Diffuser
Cloister LedLite CC 23W	23W*	2390 lm				WH - White Trim
Cloister LedLite CC 25W	25W	2600 lm				GR - Grey Trim BLK - Black Trim
						Eyelid - With eyelid diffuser
						EM3/LP4 - Integral Emergency Pack
						PC - Photocell

\*Default specification.

# Impala LedLite CC

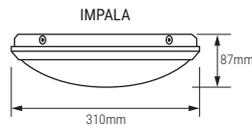
A LOW PROFILE, ROBUST VANDAL RESISTANT IP65 CIRCULAR LUMINAIRE FOR INTERNAL AND EXTERNAL APPLICATIONS



Skirt also available in black



Eyelid also available in white



## APPLICATIONS

- > External Walkway, Under Soffit and Patio Lighting
- > Access Corridor and Stairwell Lighting
- > Entrance Lobbies and Store Rooms
- > Bathrooms and Toilets

## FEATURES

- > Low Profile IP65 Polycarbonate Decorative Circular Luminaire for internal & external use
- > 4 side entry conduit points
- > Clip-on rings for Eyelid feature, Skirt trim and all available in black or white
- > Energy efficient high output LED light source
- > Dual circuit PCB to enable background comfort light
- > Variable output options
- > Plug-in connector for mains supply
- > Diffuser fixed with security screws
- > Easy to remove gear tray
- > Finished with white trim and opal diffuser
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Available with integral emergency battery back-up



## DESCRIPTION

A Low Profile IP65 Circular Decorative Luminaire designed for applications requiring robust vandal resistant fittings for both internal and external use, providing energy efficient LED lighting with high output illumination. The luminaire is constructed with a polycarbonate body, integral gear tray - finished with white trim and Opal polycarbonate diffuser fixed in place with security screws. To facilitate conduit entry there are 4 x side access points positioned evenly around the base of the luminaire.

An important aspect of the Impala is the incorporation in the design of the clip-on ring providing flexibility of appearance with options of Eyelid or Skirt feature in Black or White.

The Impala incorporates the LedLite CC LED PCB, providing a lifespan in the region of 100,000 hours.

**Impala LedLite CC-3/1-MicroMac** - twin Circuit LedLite LED PCB and Drivers to enable switching by the MicroMac Microwave Detector at full output only during occupancy, with low wattage secondary circuit providing permanent comfort light when unoccupied. Supplied with Opal Diffuser.

**Impala LedLite CC-Dali Dim** - Linked Single Circuit LedLite LED PCB for dimming operation from the dimmable driver to be operated by integral detector or remote dimmer switch. Supplied with Opal Diffuser.

**Impala LedLite CC-MicroMac** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by the MicroMac Microwave Occupancy Detector of the linked circuits. Supplied with Opal Diffuser.

**Impala LedLite CC** - Linked Single Circuit LedLite LED PCB and Driver to enable complete "On/Off" switching by remote switch of the linked circuits. Supplied with Opal Diffuser.

Also available is the **Impala LedLite -CC Triac Dim** to enable dimming from a recommended remote dimmer switch - **Impala LedLite Eco** for areas where high performance is not essential.

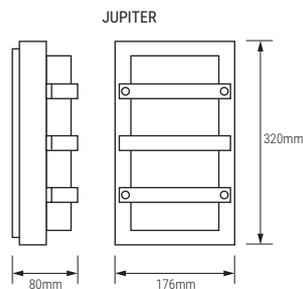
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Impala LedLite CC 16W	16W	1600 lm	White* Black with clip-on ring	3000k 4000k*	ø 310 mm x 87 mm H	SKBLK - Skirt Trim Black SKWH - Skirt Trim White ELIDBLK - Eyelid Black ELIDWH - Eyelid White EM3 - Integral Emergency Pack PC - Photocell
Impala LedLite CC 18W	18W*	1800 lm				
Impala LedLite CC 20W	20W	2020 lm				

\*Default specification.

# Jupiter LedLite

IP 65 DECORATIVE EXTERIOR WALL LIGHT



## APPLICATIONS

- > Primarily designed for external applications; however can be used internally

## FEATURES

- > Decorative bespoke design
- > Energy efficient high output LED light source
- > Vandal Resistant
- > Finished with Grey or Black trim - White available for special orders
- > Suitable for internal and external use
- > Diffuser fixed with security screws
- > IP65 Rating
- > Proprietary Drivers
- > Designed for full output "On/Off" switching only
- > Dusk to Dawn photocell option
- > Available with integral LiFePO4 Lithium Battery Back-up system



## DESCRIPTION

The **Jupiter LedLite** is a high performance luminaire offering an aesthetically pleasing, bespoke designed light fitting, rated to IP65 and primarily for external or semi humid environments

Constructed to a high quality in cast aluminium, the Jupiter is suitable for cable access either by side entry or through the rear.

It is designed with an integral gear tray, high output 20 Watt LED PCB, proprietary driver, opal diffuser and a decorative strap style front fascia, which is fixed with security screws, restricting access to the fitting without appropriate tooling. As the Jupiter is constructed with a cast aluminium housing, it offers the added value of providing a decorative yet robust

anti-vandal luminaire for installation in all environments.

The Jupiter incorporates the LedLite Linear LED PCB, providing a lifespan in the region of 100,000 hours.

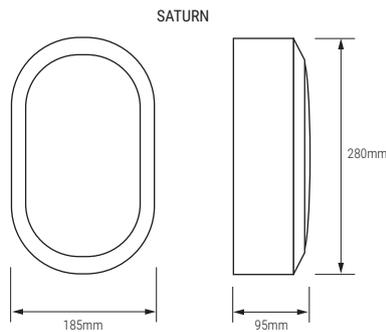
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Jupiter LedLite 20W	20W	1600 lm	Grey Black White (Special Order)	3000k 4000k*	176 mm W x 320 mm H x 80 mm D	GR - Grey Trim colour BLK - Black Trim colour PC3-LED - Dusk to Dawn photocell EM3/LP4 - Integral Emergency Pack

\*Default specification.

# Saturn LedLite

IP 65 DECORATIVE WALL LIGHT FOR EXTERIOR LIGHTING



## APPLICATIONS

- > Primarily designed for external applications; however can be used internally

## FEATURES

- > Compact Decorative design
- > LED PCB light source with proprietary branded driver
- > Constructed in cast aluminium and finished with Grey trim
- > Suitable for internal and external use
- > Opal Diffuser fixed with security screws
- > IP65 Rating
- > Designed for full output 'On/Off' switching only
- > Available with integral 3 hour emergency LiFePO4 lithium battery back-up



## DESCRIPTION

The **Saturn** is a compact oval wall light, rated to IP65 and primarily for external or semi humid environments. It is constructed in cast aluminium, providing rear cable entry option only and finished with grey trim. The polycarbonate opal diffuser is fitted in place with security screws.

It is designed to be operated with the 10 Watt

LedLite LED PCB and operated with a proprietary branded driver under model reference **Saturn LedLite-10W** and is available with integral 3 hour emergency back-up, using the LiFePO4 lithium battery technology, providing extended battery life. It is suitable for remote switching only and is not available with an integral photocell.

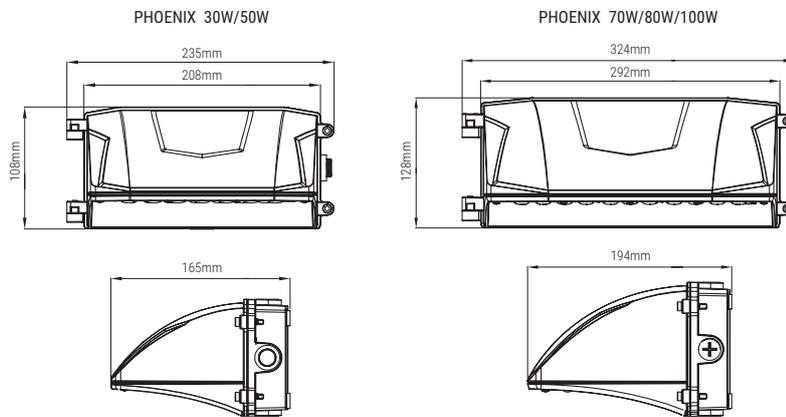
## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Saturn LedLite-10W	10W	1020 lm	Grey	3000k 4000k*	280 mm H x 185 mm W x 95 mm D	EM3LP4 - Integral Emergency Pack

\*Default specification.

# Phoenix

IP 65 LED WALL WASH FLOOD FOR EXTERIOR LIGHTING



## APPLICATIONS

- > Designed for external wall wash and floodlight applications.
- > Schools, hospitals, commercial and industrial buildings, residential and apartment complexes
- > External walkways
- > Under soffits

## FEATURES

- > Energy efficient high output - 140lm/watt
- > 30W/50W/70W/80W/100W output options to meet varying illumination demands
- > Compact
- > IP65 ingress protection
- > Opening hinge for access & easy installation
- > Vandal Resistant
- > Finished with Black trim
- > For full output 'On/Off' switching only
- > Dusk to Dawn photocell option
- > Operating temperature -20° to +80°C



## DESCRIPTION

The Phoenix is a robust but attractive IP65 wall pack designed with an optical lens system providing a combination of downward and flood illumination. It is constructed in cast aluminium with black trim, plus hinged opening for ease of installation and access. The range consists of 5 outputs covering 30W/50W/70W/80W/100W each providing 140 lumens per Watt.

Due to the unique design of the optical lens system, the Phoenix offers high output illumination but with significantly reduced light pollution. The light throw will depend on the mounting height and the model chosen but some examples are given in the table based on a mounting height of 4m:

It is available with integral photocell for dusk to dawn operation.

OUTPUT (W)	LUX LEVEL SPREAD AT MOUNTING HEIGHT OF 4M				
	2	4	6	8	10
100	210	121	27	6	2
80	178	95	20	4	2
70	159	86	18	4	2
50	129	69	13	3	1
30	61	44	10	2	1
	2	4	6	8	10
	DISTANCE FROM FITTING (METRES)				

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	TRIM COLOUR	OVERALL SIZE	OPTION CODE SUFFIX
PHOENIX-30W	30 Watts	4200 lm	3000K 4000K*	Black	108 mm (H) x 235 mm (W) x 165 mm projection	PC - Photocell
PHOENIX-50W	50 Watts	7000 lm				
PHOENIX-70W	70 Watts	9800 lm			128 mm (H) x 324 mm (W) x 194 mm projection	
PHOENIX-80W	80 Watts	11200 lm				
PHOENIX-100W	100 Watts	14000 lm				

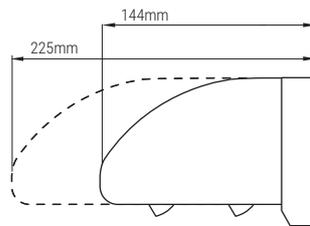
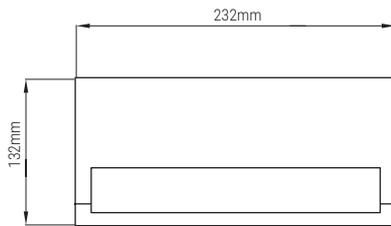
\*Default specification.

# Phoenix UD Wall Wash Flood Light

LED 180 DEGREE ROTATABLE FLOOD LIGHT



PHOENIX UD



## APPLICATIONS

- > Warehouses, Car Parks & Garages
- > Apartments
- > Factories and Retail
- > Security Lighting
- > Sign Lighting
- > Building Feature Lighting
- > Street and walkway lighting

## FEATURES

- > Energy Efficient with significant energy savings over discharge and halogen lighting
- > Reduction in consumption of up to 92%
- > Compatible with controls such as timers, dusk to dawn photocells and occupancy sensors
- > IP rated against water ingress
- > Various LED output options with life expectancy 50,000+ hours
- > Immediate strike up
- > IP66 rated against water ingress
- > Range of models from 25 Watts to 120 Watts to meet most applications



## DESCRIPTION

The Phoenix UD Wall wash Floodlight is a versatile range of LED Lighting Systems specifically developed to meet most applications of Flood, Security and Building Accent Lighting. This comprehensive range is designed using high performance driver technology, with power ratings from 25 Watts through to 120 Watts. It is designed with a robust housing for applications such as car parks, areas subject to potential vandalism or

industrial environments.

Energy efficiency with reduced maintenance is of prime importance and the Phoenix UD Range offers multiples of options to replace discharge and halogen lighting. Unlike discharge lighting the LED light source provides immediate illumination on striking and operates at full output in freezing environments.

OUTPUT (W)	LUX LEVEL SPREAD AT MOUNTING HEIGHT OF 4M				
	210	121	27	6	2
120	210	121	27	6	2
80	178	95	20	4	2
60	159	86	18	4	2
40	129	69	13	3	1
25	61	44	10	2	1
	2	4	6	8	10

DISTANCE FROM FITTING (METRES)

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	TRIM COLOUR	OVERALL SIZE	OPTION CODE SUFFIX
PHOENIX UD-25W	25 Watts	3000 lm	3000K 4000K 5000K* 5700K	Black / White	232mm (W) x132mm (H) x 144mm (D)	PC - Photocell
PHOENIX UD-40W	40 Watts	4800 lm				
PHOENIX UD-60W	60 Watts	7200 lm				
PHOENIX UD-80W	80 Watts	9600 lm			232mm (W) x 132mm (H) x 225mm (D)	
PHOENIX UD-120W	120 Watts	14400 lm				

\*Default specification.

# Astrid Manta

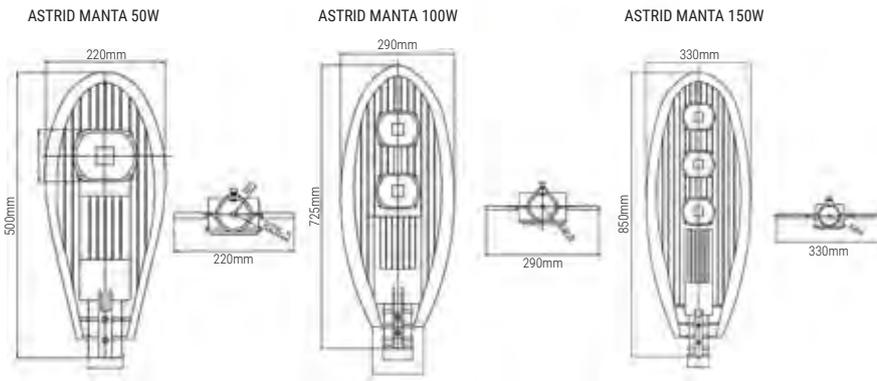
LED STREET LIGHT HEAD

## APPLICATIONS

- > LED upgrade of discharge street light heads and wall mounted projection lighting

## FEATURES

- > LED with low energy consumption and low thermal output
- > Unique low profile design
- > 120lm/Watt
- > Aluminium fin-shaped heat-sink to enhance heat dissipation
- > Energy Savings of up to 75%
- > Integrally mounted driver
- > IP65 rated
- > Ideal replacement of high output street lamp heads for LED upgrade from discharge lamps



## DESCRIPTION

The Astrid Manta is an IP65 street light head designed with an attractive low profile housing and supplied with three options of output dependent upon specific application requirements. Rated at either 50 Watt - 100 Watt - 150 Watt the Astrid Manta is constructed with a black aluminium

die-cast body, acting as a heatsink for the LED PCBs, optic lens cover, driver and is supplied with a standard mounting collar of 60mm for 100W and 150W with 54mm for the 50W. Adapter kits to enlarge to 76mm are available for either post top or wall bracket mounting.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
ASTRID MANTA-50W	50 Watts	6000 lm	5000K (W) Default 4000K (NW) to order	500 mm (L) x 220 mm (W) x 60 mm (H)	PC - Photocell
ASTRID MANTA-100W	100 Watts	12000 lm		725 mm (L) x 290 mm (W) x 75 mm (H)	
ASTRID MANTA-150W	150 Watts	18000 lm		850 mm (L) x 330 mm (W) x 75 mm (H)	



PAGE 52

# Emergency Lighting

Emergency lighting is a necessary and important requirement for the safety of and where required, the evacuation of occupants from buildings subject to power failures, or situations relating to causes that may endanger such occupants. General emergency lighting tends to be based on 3 hour battery back-up and is provided either as integral to the main luminaire or as a dedicated remote emergency unit. Morgan Hope offers a range of products to cover most emergency LED lighting needs from general escape route illumination to exit legend signage, all of which are outlined within this section.

With regards to our Integrated Emergency Back-up Systems, integral to the luminaires, we are currently going through a process of upgrading, over the coming months, our existing battery

options from NiCd batteries to Lithium technology with LiFePO4. There are various reasons to adopt this newer technology but the three main benefits are:

■ **LOWER PARASITIC LOAD (POWER CONSUMPTION)** - NiCd batteries require constant trickle charging to maintain their charge. This equates to a power consumption of circa 5W, whereas the self-discharge of the LiFePO4 batteries is minimal at circa 5% per month, resulting in initial charge at commissioning stage and only tops up as and when required, as opposed to constant trickle charge. This reduces power consumption to circa 1.2W, which when extended throughout multiples of luminaires within a building, could make a significant energy cost reduction.

■ **LONGER LIFE** - in accelerated testing LiFePO4 batteries still last 3-hours after a 12 year simulated lifespan and as such the envisaged life expectancy should be between 4 to 8 years dependant on application and operational usage, with 8 years not being unrealistic.

■ **IMPROVED ENVIRONMENTAL IMPACT** - Cadmium used in NiCd batteries is highly toxic and the manufacturing process is detrimental to the environment. Globally, governments are attempting to ban NiCd batteries, but historically there have been no suitable alternatives. NiMH batteries were thought to be the next step, but they are simply not reliable enough. The introduction of LiFePO4 batteries provides a solution to overcome the shortcomings of using NiCd batteries.

# MHI-LedLite-LP4 Emergency Kit

RETRO-FIT LED EMERGENCY BATTERY BACK-UP



## APPLICATIONS

> Emergency lighting upgrades for circular luminaires for corridors, lobbies, open plan areas and general office space.

## FEATURES

- > 3 hour emergency battery back-up
- > Non-maintained as standard
- > Rated at 3 Watts delivering up to 220 lumens
- > Model options available for self-test
- > Lithium Battery operated with LiFePO4 - 3.2V - 3Ah



## DESCRIPTION

The MHI-LedLite-LP4 Emergency Kit is a retro-fit option to repair or upgrade luminaires with emergency battery back-up. It is designed as a circular ring rated at 3W, measuring 150mm in diameter with a centre cut-out hole of 105mm and functions as non-maintained from the combination of the module and battery pack. The kit is supplied as standard with Lithium LiFePO4 - 3.2V - 3Ah batteries providing a long life, energy efficient emergency lighting support system.

Photometric testing shows as a guideline that to achieve 1 lux on the centreline of escape routes within corridors at 2.5M mounting height the space between each MHI-LedLite-LP4 Emergency Kit to be 9M. For 0.5 lux in open plane areas at 2.5M mounting height spacing to be 9M in either direction.

PCB is available in a circular or linear option to suit its application.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
MHI-LedLite	3w	220 lm	4000K	105 mm (inner centre cut-out) x 150 mm ø	ST - Self-Test

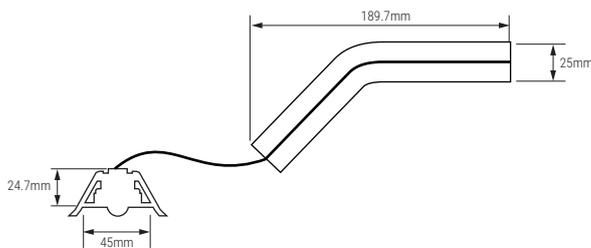
\*Default specification.

# Omega LTM-1.5W-EM3

LED EMERGENCY RECESSED DOWNLIGHT



OMEGA LTM-1.5W-EM3



## APPLICATIONS

- > Schools, hospitals, commercial buildings, industrial buildings, residential
- > Emergency exit routes
- > Open area emergency lighting

## FEATURES

- > Compliant to EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 62034
- > Corridor or open area application
- > IP20 - indoor application
- > Microprocessor controlled battery charging
- > Deep discharge protection
- > Self-test available
- > Lithium ion battery
- > 3-hr operation
- > Recessed mount
- > 5-year warranty



## DESCRIPTION

The Morgan-Hope LED Omega LTM-1.5W-SM Emergency lighting unit is for surface mount to solid ceiling applications. At only 1.5W and offering 150 lumens it punches above its weight in functionality.

Using Lithium-Ion battery technology the Omega

LTM-1.5-SM has an extended lifespan with a 5-year warranty as standard.

Non-maintained as standard with self-test option available and open area or corridor lens options the Omega LTM-1.5-SM covers all areas.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	INPUT VOLTAGE	DISCHARGE DURATION	CHARGE DURATION	LAMP LUMEN OUTPUT	LENS	TRIM COLOUR	BATTERY TYPE
Omega LTM-1.5W-C-EM3 (corridor)	1.5W	220-140V AC 50/60Hz	3 hrs	<24 hrs	150 lm	145° x 75°	Matt White	Lithium Ion

# Omega LTM-1.5W-SM

SURFACE MOUNT LED EMERGENCY LIGHTING MODULE



## APPLICATIONS

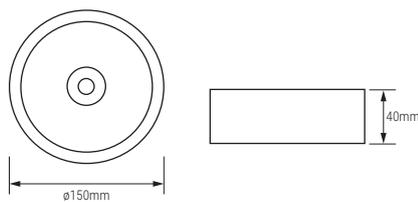
- > Corridors
- > Lobbies
- > Open Plan Areas
- > Reception Areas
- > Communal Areas

## FEATURES

- > 150 lumens
- > Li-ion battery
- > 3Hr Operation
- > Charging Time <24hrs
- > Non-Maintained
- > Self-Test optional
- > IP20
- > 5 Year Warranty



OMEGA LTM-1.5W-SM



## DESCRIPTION

The Morgan-Hope LED Omega LTM-1.5W-SM Emergency lighting unit is for surface mount to solid ceiling applications. At only 1.5W and offering 150 lumens it punches above its weight in functionality.

Using Lithium-Ion battery technology the Omega LTM-1.5-SM has an extended lifespan with a 5-year warranty as standard.

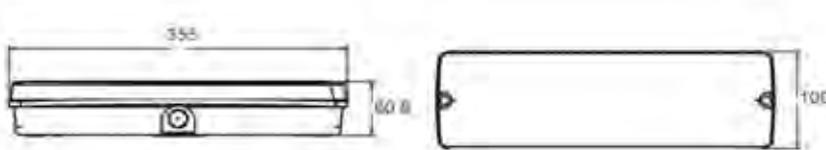
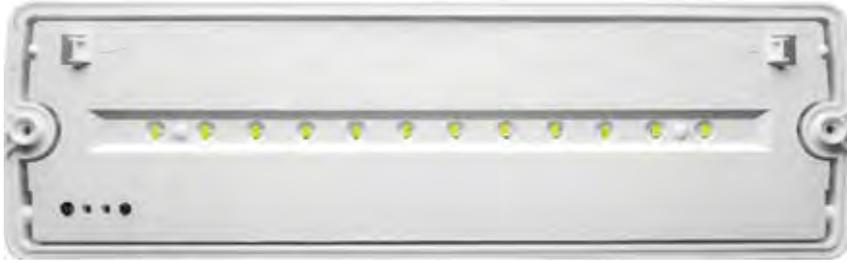
Non-maintained as standard with self-test option available and open area or corridor lens options the Omega LTM-1.5-SM covers all areas.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	TRIM COLOURS	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
Omega LTM-1.5W-SM	1.5W	150 lm	White	4000K	ø150 mm x 40 mm (H)	ST - Self Test C - Corridor Lens

# Viscount LTM-EM3

LED EMERGENCY BULKHEAD - IP65 ROBUST FITTING



## DESCRIPTION

High performance emergency bulkhead constructed with a white polycarbonate back body and semi transparent diffuser.

It is designed for either surface or semi-recessed mounting.

The versatility of design offers a fitting that is universal for maintained and non-maintained, suitable for escape route lighting and escape route signage with configurable legends included as standard and is rated to IP65 for both internal and external applications.

## APPLICATIONS

- > Schools, hospitals, commercial buildings, industrial buildings, residential
- > External walkways
- > Emergency exit routes
- > Emergency exit doors

## FEATURES

- > BS 60598-2-22 and ISO 7010 compliant
- > LIA certified
- > IP65
- > IK10 impact rating
- > Low stand-by power consumption < 0.5W (NM)
- > Self-test version available
- > Lithium battery
- > Maintained or non-maintained configurations
- > Suitable for indoor or outdoor applications
- > Surface or recessed mount
- > Hinged internal back plate for ease of wiring
- > 5-year warranty

## SPECIFICATION

- > Input voltage / frequency - 220-240V AC 50Hz
- > Discharge duration - 3-hours
- > Charge duration - <24-hours
- > Battery type - Li-Ion 3.6V 2.5Ah
- > Housing - Polycarbonate
- > Diffuser - Polycarbonate



## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	OPERATING TEMPERATURE	TRIM COLOUR	OVERALL SIZE	OPTION CODE SUFFIX
VISCOUNT LTM-EM3	0.5W NM 3W M	170 lm	0-40°C	Matt White	109 mm (H) x 355 mm (W) x 60.8 mm (D)	ST - Self Test

\*Default specification.

# SignLite Combi LTM-EM3

LED 3 IN 1 EMERGENCY EXIT SIGN



## APPLICATIONS

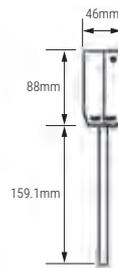
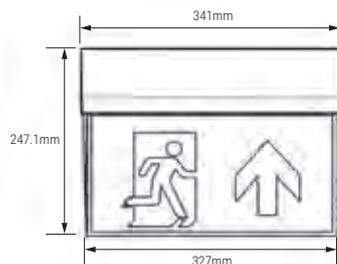
- > Schools, hospitals, commercial buildings, industrial buildings, residential
- > Emergency exit routes
- > Emergency exit doors

## FEATURES

- > BS 60598-2-22 and ISO 7010 compliant
- > LIA certified
- > Double sided emergency LED exit sign
- > Viewing distance 30m
- > Low stand-by power consumption <0.5W (NM)
- > Self-test versions and remote controls available
- > Lithium battery
- > Maintained or non-maintained as standard
- > Ceiling or recessed mounting
- > IP20: suitable for indoor applications
- > IK07 impact resistance
- > 5-year warrant



SIGNLITE COMBI LTM-EM3



## DESCRIPTION

The SignLite Combi LTM EM3 is a versatile exit sign providing various fixing options to suit specific site requirements. The SignLite Combi LTM EM3 is available with a range of directional arrows. The

body is finished with a white trim and illuminated with high output colour 6500K LEDs and rated at 3 Watts. It can be operated as maintained or non-maintained providing 3 hour battery back-up.

## TECHNICAL + OPTIONS

MODEL CODE	POWER CONSUMPTION	DISCHARGE / CHARGE DURATION	VIEWING DISTANCE	TRIM COLOURS	OPERATING TEMPERATURE
SignLite-Combi LTM-EM3	0.5W NM, 3W M	3 Hrs / <24 Hrs	30 Metres	Matt White	0 - 40°C
SignLite-Combi LTM-MKIT (Mounting Kit)					
SignLite-Combi LTM-Down (Legend arrow down)					
SignLite-Combi LTM-Up (Legend arrow up)					
SignLite-Combi LTM-Left (Legend arrow left)					
SignLite-Combi LTM-Right (Legend arrow right)					

# SignLite LTM-EM3

LED DEEP PROFILE EMERGENCY EXIT SIGN



## APPLICATIONS

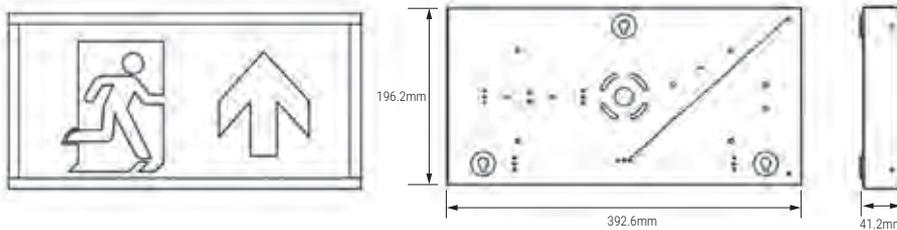
- > Schools, hospitals, commercial buildings, industrial buildings, residential
- > Emergency exit routes
- > Emergency exit doors

## FEATURES

- > BS 60598-2-22 and ISO 7010 compliant > LIA certified
- > Self-contained emergency LED exit box
- > Viewing distance 34m
- > Low stand-by power usage <0.5W (NM)
- > Self-test available
- > Lithium battery
- > Maintained or non-maintained configurations
- > IP20 suitable for indoor applications
- > IK07 impact resistance
- > Legend plate ordered separately



SIGNLITE LTM EM3



## DESCRIPTION

The SignLite LTM EMS is an LED Deep Profile emergency exit sign, constructed with a steel housing and designed with inter changeable legend signs. The body is finished in white powder coating

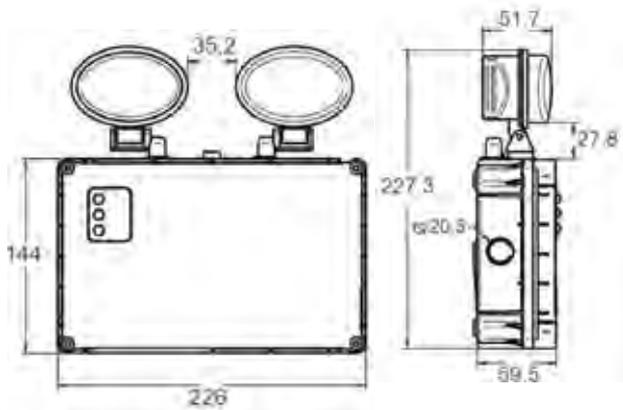
and illuminated with high output colour 6500K LEDs and rated at 2.6 Watts. It can be operated as maintained or non-maintained providing 3 hour battery back-up.

## TECHNICAL + OPTIONS

MODEL CODE	POWER CONSUMPTION	DISCHARGE / CHARGE DURATION	VIEWING DISTANCE	TRIM COLOURS	OPERATING TEMPERATURE
SignLite LTM-EM3	0.5W NM, 3W M	3 Hrs / <24 Hrs	34 Metres	Matt White	0 - 40°C
SignLite LTM-Down (Legend arrow down)					
SignLite LTM-Up (Legend arrow up)					
SignLite LTM-Left (Legend arrow left)					
SignLite LTM-Right (Legend arrow right)					

# Odet LTM-3W EM3

LED EMERGENCY TWINSPOT – IP65 FITTING



## APPLICATIONS

- > Schools, hospitals, commercial buildings, industrial buildings, residential
- > External walkways
- > Emergency exit routes
- > Emergency exit doors

## FEATURES

- > BS 60598-2-22 and ISO 7010 compliant
- > LIA certified
- > IP65
- > IK10 impact rating
- > Low stand-by power consumption < 0.5W
- > Self-test versions & remote controls available
- > Lithium battery
- > Non-maintained 350lm in emergency mode
- > Suitable for indoor or outdoor applications

## SPECIFICATION

- > Input voltage / frequency - 220-240V AC 50Hz
- > Discharge duration - 3 hours
- > Charge duration - <24 hours
- > Battery type - Li-Ion 3.6V 2.5Ah
- > Housing - Polycarbonate
- > Diffuser - Polycarbonate
- > LED lifespan - 50,000 hours



## DESCRIPTION

The Odet LTM-3W-EM3 is an IP65 emergency twin-spot flood light suitable for indoor or outdoor open area applications.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	OPERATING TEMPERATURE	TRIM COLOUR	OVERALL SIZE	OPTION CODE SUFFIX
ODET LTM-3W EM3	6W (max) 0.5W (standby)	350 lm	0-40°C	Matt White	127 mm (H) x 226 mm (W) x 59.5 mm (D)	ST - Self Test

\*Default specification.

A photograph of an industrial lighting fixture, likely a high-bay LED light, mounted on a ceiling with corrugated metal panels. The fixture is suspended by a chain and has a long, rectangular body with a circular lens at the end. The background shows the structure of the ceiling and other lighting fixtures.

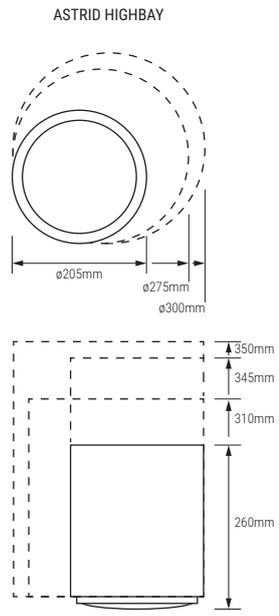
PAGE 60

# Industrial Lighting

All of the luminaires within the range are equipped with LED light sources to deliver energy-efficient, high output illumination and a low on-going maintenance.

# Astrid LED HighBay

RANGE OF HIGH OUTPUT INDUSTRIAL LUMINAIRES



## APPLICATIONS

- > Factory Lighting
- > Warehouse Lighting
- > Sports Halls
- > Car Parks

## FEATURES

- > Energy efficient with high output LED light source
- > Variable output options
- > IP65
- > Supplied as standard with 0V to 10V dimmable driver
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Reflector options available
- > Available with emergency battery back-up



## DESCRIPTION

The Astrid HighBay LED Range of Industrial Luminaires are designed with the latest high output SMD/LED technology providing high levels of efficiency for applications of industrial use and a lifespan in the region of 100,000 hours.

Unlike discharge lighting, LED supports occupancy and daylight control and the Astrid LED HighBay is

supplied with 0V to 10V dimmable drivers as standard, facilitating the incorporation of sensor control systems, when required. The MicroDim Detector offers full output during occupancy and dims to 10% when unoccupied, providing health and safety comfort background light, whereas the MicroMac is based on "On/Off" switching only.

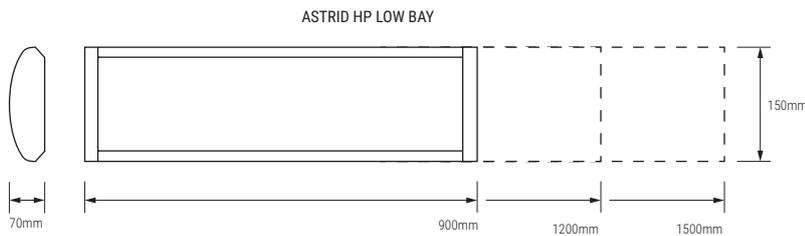
Emergency battery back-up is available, however due to potential long range mounting positions, a separate high output emergency pack would be required by attaching to the luminaire on a bracket or for remote fixing.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	DIM SYSTEM COMFORT LIGHT APPROX. MIN. CONSUMPTION	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
ASTRID LED HIGHBAY 80W	80 Watts	8450 lm	8 - 12 Watts	5000k	ø 205 mm x 260 mm (H)	MicroDim - Microwave 0V to 10V Dimming Control
ASTRID LED HIGHBAY 120W	120 Watts	13840 lm	12 - 15 Watts		ø 275 mm x 310 mm (H)	MicroMac - On/Off Occupancy Control
ASTRID LED HIGHBAY 150W	150 Watts	17065 lm	15 - 20 Watts		ø 205 mm x 345 mm (H)	RF-ALUM - Aluminium Reflector
ASTRID LED HIGHBAY 250W	250 Watts	24665 lm	25 - 30 Watts		ø 300 mm x 355 mm (H)	RF-PRIS - Clear Prismatic Reflector
						EM3-HP - High Power Emergency Accessory

# Astrid HP LED LowBay

RANGE OF LINEAR HIGH OUTPUT INDUSTRIAL LUMINAIRES



## APPLICATIONS

- > Factory Lighting
- > Warehouse Lighting
- > Sports Halls
- > Car Parks

## FEATURES

- > Energy efficient with high output LED light source
- > Variable output options
- > IP65
- > Supplied as standard with 0V to 10V dimmable driver
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Opal diffuser
- > Available with emergency battery back-up



## DESCRIPTION

The Astrid HP LED LowBay Range of Industrial Luminaires are designed with the latest high output SMD/LED technology providing high levels of efficiency for applications of industrial use and a lifespan in the region of 100,000 hours.

Unlike discharge lighting, LED supports occupancy and daylight control and the Astrid HP LowBay is

supplied with 0V to 10V dimmable drivers as standard, facilitating the incorporation of sensor control systems, when required. The MicroDim Detector offers full output during occupancy and dims to 10% when unoccupied, providing health and safety comfort background light, whereas the MicroMac is based on "On/Off" switching only.

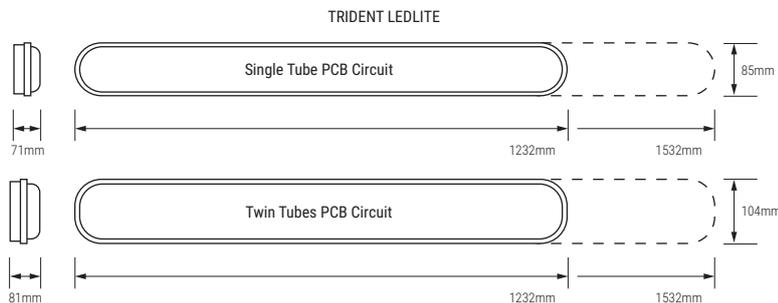
Emergency battery back-up is available, however due to potential long range mounting positions, a separate high output emergency pack would be required for attaching to the luminaire on a bracket or for remote fixing.

## TECHNICAL + OPTIONS

MODEL CODE	WATTAGE	LAMP LUMEN OUTPUT	DIM SYSTEM COMFORT LIGHT APPROX. MIN. CONSUMPTION	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
ASTRID HP-100W-LED LOWBAY	100 Watts	12,500 lm	10 - 15 Watts	5000k	900 mm x 150mm x 70 mm (H)	<b>MicroDim</b> - Microwave 0V to 10V Dimming Control <b>MicroMac</b> - On/Off Occupancy Control <b>EM3-HP</b> - High Power Emergency Accessory
ASTRID HP-150W-LED LOWBAY	150 Watts	18,750 lm	15 - 20 Watts		1200 mm x 150 mm x 70 mm (H)	
ASTRID HP-200W-LED LOWBAY	200 Watts	25,000 lm	20 - 25 Watts		1500 mm x 150 mm x 70 mm (H)	

# Trident LedLite

RANGE OF VAPOUR-PROOF LUMINAIRES



## APPLICATIONS

- > Factory & Warehouse Lighting
- > Car Parks
- > Service Corridors & Stairwells
- > Kitchens & Laundry

## FEATURES

- > Energy efficient high output LED light source
- > Fixed output or 0v to 10v dimming with integral occupancy control that is universal to also operate for "On/Off" switching
- > Comfort dimmed light option for health and safety when unoccupied
- > Quick release gear tray
- > Designed for use with occupancy and daylight control systems, either integrally mounted or remote
- > Patented Frosted Diffuser System as standard but available with Opal diffuser
- > Available with integral emergency battery back-up using our LiFePO4 Lithium Battery Back-up system



## DESCRIPTION

The Trident LedLite Range of IP65 Vapour-proof Luminaires has been designed for applications requiring robust fittings for both internal and external use. It is constructed with a light grey polycarbonate housing, quick release steel gear tray and diffuser that is fixed in place with stainless steel clips. Fitted with the LedLite Linear LED PCB the Trident provides various options of operation from fixed output through to dimming systems.

A unique feature of the microwave controlled version is that it provides the options of dimming through the 0v to 10v driver for comfort background health and safety light or by switching the controller to "infinity ∞" will operate as "On/Off" switch only.

The Trident incorporates the LedLite Linear LED PCB, providing a lifespan in the region of 100k hours.

Trident LedLite is available as single and twin 1200mm and 1500mm - incorporating the LedLite Linear LED PCB with fixed output, 0v to 10v dimming for health and safety comfort light or "On/Off" switching. Fitted with a patented frosted diffuser system or opal to suit specific application:

**Trident 112 LedLite** - single 1200mm body with fixed output

**Trident 112 LedLite MicroDim-TR** - single 1200mm body with integral MicroDim-TR Microwave Occupancy Detector to operate with variable settings for 0v to 10v dimming control for health

and safety comfort light. If required the dimming function can be disengaged to provide occupancy control with "On/Off" switching only.

**Trident 112 LedLite-Dim** - single 1200mm body with single circuit LedLite PCB and dimmable driver suitable for "0V-10V" or "Dali" dimming and operated by either an integral or remote detector or switch.

The above examples shown for the single 1200mm model is also available with the same operation modes in:

**Twin 1200 mm** - adjust code to "212"

**Single 1500 mm** - adjust code to "115"

**Twin 1500 mm** - adjust code to "215"

**Emergency Version** - add code "EM3/LP4"

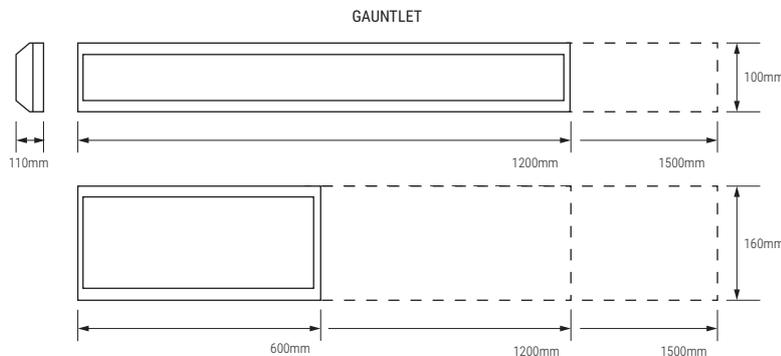
## TECHNICAL + OPTIONS

MODEL CODE	AVERAGE* TOTAL WATTS	TOTAL LUMEN OUTPUT	MIN. CONSUMPTION IN MICRODIM-TR DIMMED MODE	LUMENS AT MINIMUM OUTPUT	LUMENS IN EMERGENCY BACKUP	COLOUR TEMPERATURE	OVERALL SIZE
TRIDENT 112 LEDLITE	24W	2520 lm	3W	252 lm	315 lm	4000k	1232 mm L x 85 mm W x 71 mm H
TRIDENT 212 LEDLITE	48W	5040 lm	5W	504 lm	315 lm		1232 mm L x 104 mm W x 81 mm H
TRIDENT 115 LEDLITE	30W	3150 lm	4W	315 lm	315 lm		1532 mm L x 85 mm W x 71 mm H
TRIDENT 215 LEDLITE	60W	6300 lm	6W	630 lm	315 lm		1532 mm L x 104 mm W x 81 mm H

\*Average consumption based on medium range mA input option

# Gauntlet LedLite

RANGE OF VAPOUR-PROOF LUMINAIRES



## DESCRIPTION

The **Gauntlet LedLite** Range of IP65 Vapour-proof Luminaires has been designed for applications requiring robust fittings for both internal and external use. It is constructed with a light grey polycarbonate housing, quick release steel gear tray and diffuser that is fixed in place with stainless steel clips. Fitted with the LedLite Linear LED PCB the Gauntlet provides various options of operation from fixed output through to dimming systems.

The Gauntlet incorporates the LedLite Linear LED PCB, providing a lifespan in the region of 100,000 hours.

**Gauntlet LedLite Strata** - is a twin 600mm fitting incorporating the Strata LED Module and available with fixed output or 0V to 10V dimming. It is suitable for use with remote or integral occupancy controls:

**Gauntlet 206 LedLite** - fixed output - suffix code MicroMac for integral "On/Off" occupancy control.

**Gauntlet 206 LedLite-0V/10V-MicroDim** - occupancy control dimming down to 10% when unoccupied.

**Gauntlet LedLite** is available as single and twin 1200mm and 1500mm - incorporating the LedLite Linear LED PCB with fixed output, 1/1 health and safety comfort light or 0V to 10V dimming. Fitted with a clear diffuser the PCB is suitable for use with remote or integral occupancy controls:

**Gauntlet 112 LedLite** - single 1200mm body with fixed output - suffix code MicroMac for integral "On/Off" occupancy control.

**Gauntlet 112 LedLite-1/1-MicroMac** - single 1200mm body with integral twin circuit LedLite PCB and drivers to enable switching by the MicroMac

## APPLICATIONS

- > Factory Lighting
- > Warehouse Lighting
- > Car Parks
- > Service Corridors
- > Stairwells
- > Kitchens
- > Laundry

## FEATURES

- > Energy efficient high output LED light source
- > Dual circuit PCB to enable background comfort light
- > Variable output options
- > Plug-in connector for mains supply
- > Quick release gear tray
- > Compatible with occupancy and daylight control systems, either integrally mounted or remote
- > Clear diffuser as standard but available with PCB clip fix opal cover to diffuse LED light
- > IP65
- > Available with integral LiFePO4 Lithium Battery Emergency Back-up system



Microwave Occupancy Detector of the primary high output circuit for occupancy but retaining fixed output on the secondary circuit for health and safety comfort light.

**Gauntlet 112 LedLite-Dim** - single 1200mm body with single circuit LedLite PCB and dimmable driver suitable for "0V-10V" or "Dali" dimming and operated by either an integral or remote detector or switch.

The above examples shown for the single 1200mm model is also available with the same operation modes in:

- Twin 1200mm - adjust code to '212'
- Single 1500mm - adjust code to '115'
- Twin 1500mm - adjust code to '215'



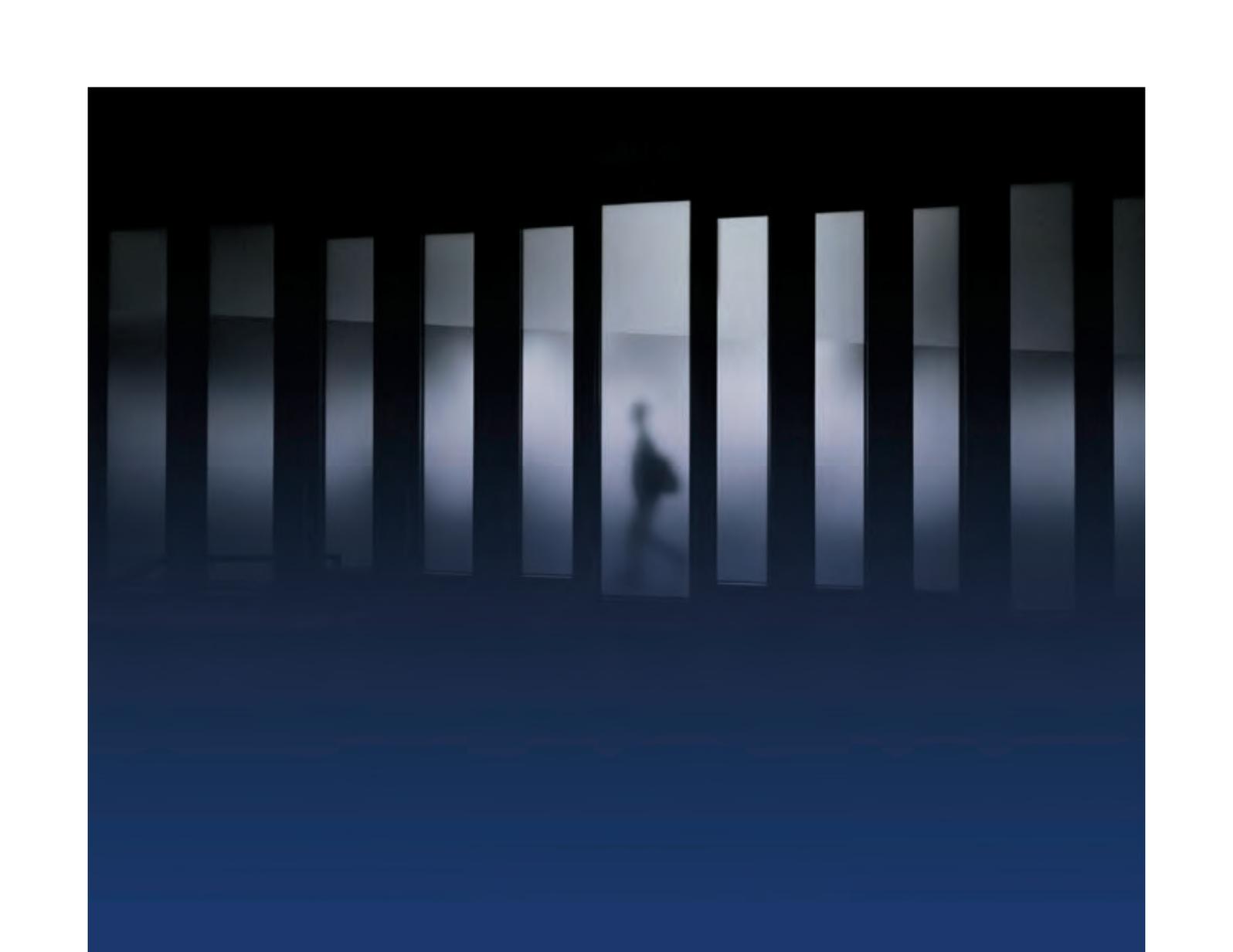
A GAUNTLET installation at the Merseyrail Kirkdale Depot



## TECHNICAL + OPTIONS

MODEL CODE	AVERAGE* TOTAL WATTS	APPROX. MIN. CONSUMPTION (COMFORT LIGHT)		LAMP LUMEN OUTPUT	COLOUR TEMPERATURE	OVERALL SIZE	OPTION CODE SUFFIX
		1/1 SYSTEM	DIM SYSTEM				
GAUNTLET 206 LEDLITE	18W	3 - 4W	3W	Total: 1870 lm	4000k	600 mm x 160 mm x 110 mm	OPC - PCB Clip Fix Opal Cover EM3/LP4 - Integral Emergency Pack
				Min: 367 lm			
GAUNTLET 112 LEDLITE	22W		3 - 4W	Total: 2310 lm		1200 mm x 100 mm x 110 mm	
				Min: 367 lm			
GAUNTLET 212 LEDLITE	28W		4W	Total: 2940 lm		1200 mm x 160 mm x 110 mm	
Min: 367 lm							
GAUNTLET 115 LEDLITE	26W	4 - 5W	Total: 2730 lm	1500 mm x 100 mm x 110 mm			
Min: 367 lm							
GAUNTLET 215 LEDLITE	42W	5W	Total: 4410 lm	1500 mm x 160 mm x 110 mm			
			Min: 367 lm				

\*Average consumption based on medium range mA input option



PAGE 66

# Energy Controls

We provide a range of occupancy and daylight control detectors based on the range of microwave controls for both switching and dimming. PIR based detectors are also available.

# Morgan Hope Occupancy Detectors

Morgan Hope provides a range of occupancy and daylight control detectors and whilst the optimum product for use with the LedLite PCB Range is based on the range of Microwave controls for both switching and dimming, options are also available with PIR based detectors where less sensitive control is required.

Full information is available in the relevant Product Data Sheets.



“Occupancy sensors detect the presence or absence of people and turn lights on and off accordingly. They may reduce lighting energy consumption by **50%** or more in some circumstances.”

# MicroTect IM / SM

OCCUPANCY / DAYLIGHT CONTROL WITH MICROWAVE DETECTION

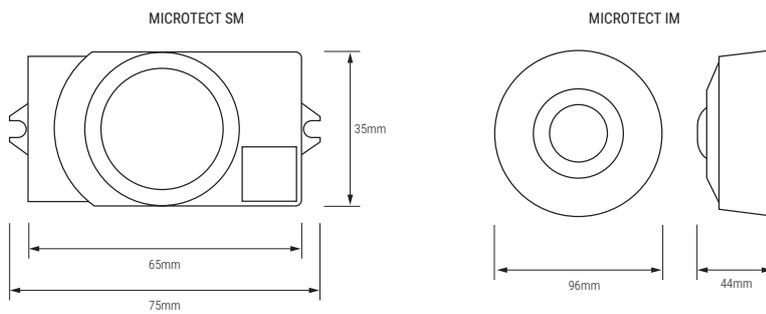


## APPLICATIONS

- > Corridors
- > Offices
- > Store rooms
- > Car parks
- > Integral mounting into luminaires

## FEATURES

- > Time-out setting options - from 12 seconds to 30 minutes.
- > Reach/Sensitivity options - 2m to 10m
- > Daylight regulation options - 150 lux to 2000 lux only suitable for specific luminaires where nuisance switching can be avoided.



MicroTect IM

## DESCRIPTION

MicroTect is an occupancy detector system utilising Microwave technology to provide rapid response detection, with high sensitivity, where PIR technology would be restricted. It is designed to react to the slightest movement within its detection zone, even when concealed within luminaires.

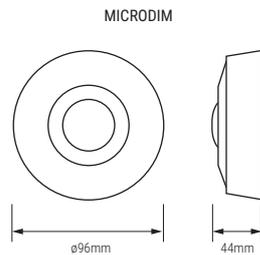
The MicroTect "IM" is primarily designed for location into luminaires whereas the MicroTect "SM" is primarily designed to be situated outside luminaires.

## TECHNICAL + OPTIONS

MODEL CODE	SWITCHING LOAD	REACH	OVERALL DIMENSIONS
MicroTect IM	1200W (220-240Vac) 600W (100-130Vac)	1 - 10 Metre Radius (Adjustable)	Ø96 mm x 44 mm (H)
MicroTect SM			77 mm (L) x 35 mm (W) x 25 mm (H)

# MicroDim

OCCUPANCY AND DAYLIGHT CONTROL WITH DIMMING AND MICROWAVE DETECTION



## APPLICATIONS

- > Corridors
- > Offices
- > Store Rooms
- > Car Parks
- > Integral Mounting into luminaires

## FEATURES

- > Time-out Setting options - 12 seconds / 5 minutes / 10 minutes / 30 minutes.
- > Reach/Sensitivity options - 2m / 5m / 10m
- > Daylight regulation options - 150 lux / 300 lux / 500 lux / 2000 lux.



## DESCRIPTION

The MicroDim "Dimmable" Microwave Occupancy System is designed to operate with both LED and Fluorescent with 0V to 10V analogue dimming LED Drivers and dimming High Frequency

Ballast, which functions on the basis of full output when movement is detected and will dim in a single stage to minimum output of the Driver/ Ballast rating at approximately 10%, when the area is unoccupied. It is located within the housing of the luminaire and will detect through the diffuser and as such will operate on occupancy but still retain the sealed integrity of the luminaire.

The control incorporates adjustable settings based on dip switches for Time-out - Reach/Sensitivity and Daylight.

When daylight control is not required we suggest setting at 2000 lux to avoid potential nuisance switching. If daylight control is required then in regards to the LedLite CC Circular PCB Range, the MicroMac is supplied with the photocell on a fly-lead to mount within the body of the fitting to ensure light wash from the diffuser does not distort the photocell detection and product codes should be suffixed "PC". When the area is

unoccupied the System will run continuously at minimum output, providing background comfort security lighting and good health and safety practice but any time during the timeout period that movement is detected, the lighting will return to 100% output.

There is also a facility to adjust the minimum dimmed output level to meet specific requirements, up to 60% of total output, although the control will always be supplied set to minimum. Each luminaire is fitted with its own integral occupancy detector

## TECHNICAL + OPTIONS

MODEL CODE	POWER SUPPLY	LIGHT CONTROL	REACH	DETECTION ANGLE	TIME SET
MicroDim	220V/AC - 240V/AC	150 lux- 2000 lux adjustable	2 to 10 metres adjustable	360°	12 seconds to 30 minutes

# MCD-PIR

OCCUPANCY CONTROLLED DIMMABLE SYSTEM WITH MCD-PIR 2 STAGE DIMMING

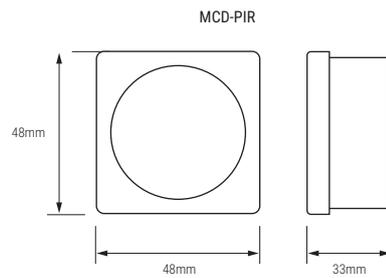


## APPLICATIONS

- > Corridors
- > Offices
- > Store rooms
- > Car parks
- > Data Centres
- > Integral mounting into luminaires

## FEATURES

- > Two stage dimming
- > 1 - 10V analogue dimming
- > 15 Second test function
- > Reach sensitivity up to 6 metres



## DESCRIPTION

The MCD-PIR Movement Controlled Dimmable Lighting System is designed to operate with analogue 1V to 10V dimming Ballasts or Drivers, maintaining full output during occupancy, then dimming in two stages with 50% output after 3 minutes of non-detection and an additional 10% after a further 5 minutes of non-detection, to remain at a constant 40% output. Any time during

the time-out movement is detected, the luminaire will switch to 100% output. The MCD-PIR is especially useful in areas such as Data Centres, where moving equipment could cause nuisance switching with Microwave detection



Round version

## TECHNICAL + OPTIONS

MODEL CODE	OPERATING VOLTAGE	REACH	OVERALL SIZE
MCD-PIR	230V	Upto 6 Metres	48W x 48Hx 33

# MiniTect

OCCUPANCY AND DAYLIGHT CONTROL WITH ON/OFF PIR DETECTION

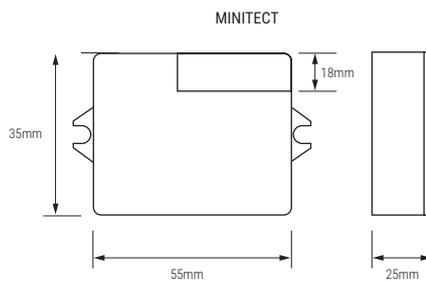


## APPLICATIONS

- > Corridors
- > Offices
- > Store rooms
- > Car parks
- > Integral mounting into luminaires

## FEATURES

- > Time-Delay 5s, 30s, 1 Min, 3 Min, 8 Min
- > Working Light: 10 Lux to 2000 Lux
- > Sense Distance: 8 metres



## DESCRIPTION

MiniTect is a miniature PIR Detector with remote sensor head that is connected by a linking cable to the main switch box and is designed primarily for fitting integrally into Fluorescent based luminaires, such as the Gauntlet or FLB Batten Range.

MiniTect is an automatic sensor switch device using infrared detection and IC & SMB technology, to detect presence of movement and light conditions within its detection range.

The main switch box consists of a series of Dip Switches to adjust 'Time Out' from 5 seconds to 8 minutes - daylight option to hold off operation unless below 10 lux - sensitivity switch to improve detection range - detection range of approximately 5m radius - switching load of 200W.

## TECHNICAL + OPTIONS

MODEL CODE	SENSE DISTANCE	OPERATING VOLTAGE	RATED LOAD	DETECTION ANGLE
MiniTect	8 metres	180v to 240 VAC	800 W Resistive 150 W Fluorescent	100°

# ICP-3

CURRENT PROTECTION WITH INTERFACE WITH DISTRIBUTION BOARDS

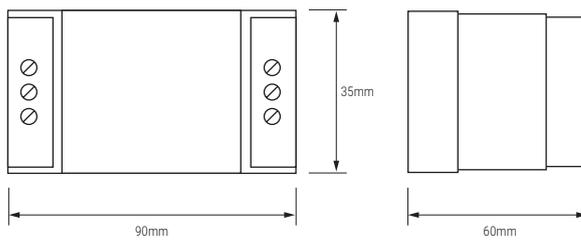


## FEATURES

- > In-rush circuit protection for inrush loads upto 250A peak
- > Max Load 3A
- > Distribution Board Interface
- > 30 second repetitive switching
- > Protection against damage and tripping to circuit breakers
- > Manage upto 20 fittings per circuit



ICP3



## DESCRIPTION

The operational characteristics of LED lighting and the related drivers can cause significant in-rush currents at start-up, resulting in nuisance tripping of the circuits during switching. Morgan Hope have designed the ICP-3 to interface with the distribution board lighting circuits, including but not limited to ranges of various types of Circuit Breakers or Fused Systems. The purpose of the ICP Range is to suppress the in-rush current from the LED circuits and drivers.

In-rush current is a momentary surge of power which is rarely simultaneous when switching multiples of LedLite Luminaires, enabling a single ICP-3 unit to manage up to 20 fittings per circuit. The ICP protects against circuit tripping and damage to circuit breakers.

## TECHNICAL + OPTIONS

MODEL CODE	POWER SUPPLY	MAX LOAD	MAX INRUSH	REPETITIVE SWITCHING
ICP-3	240V AC / 50Hz	3A	250A Peak	Every 30 Seconds

# MoviLux-ECO

SURFACE MOUNTED PIR MOVEMENT SENSOR



## APPLICATIONS

- > Reception lighting
- > Hotel lighting
- > Corridor lighting
- > Entrance Lobbies
- > Office lighting
- > Hospital lighting

## FEATURES

- > PIR Sensor
- > Light Level Sensor
- > Power Input & Switched Output Connector
- > Lux Button - Set the Lux level for switching.
- > Time Button - Set the Time delay after which the load switches off



## DESCRIPTION

The MoviLux-ECO movement sensor is designed to provide automatic control of lighting, heating or ventilation loads. It detects movement using a PIR sensor and turns the load on. When an area is no longer occupied the load will switch off after an adjustable time out period.

An adjustable internal light sensor provides additional energy saving in lighting applications.

When an area is occupied, lighting is only switched on when the level of natural light falls below a preset level.

When the sensor is first powered up the PIR sensor will always detect immediately regardless of whether the room is occupied.



*Recessed version*

## TECHNICAL + OPTIONS

MODEL CODE	POWER CONSUMPTION	SUPPLY VOLTAGE	TEMPERATURE	WEIGHT	OVERALL SIZE	COMPLIANCE
MoviLux-ECO	573 mW (on) 670 mW (Off)	230 VAC	-10°C to 35°C	0.15 kg	ø 96.5 mm x 50 mm H (with gasket fitted)	EMC-2004/108/EC LVD-2006/95/EC

# MicroMac-PC

MICROWAVE DETECTOR



## APPLICATIONS

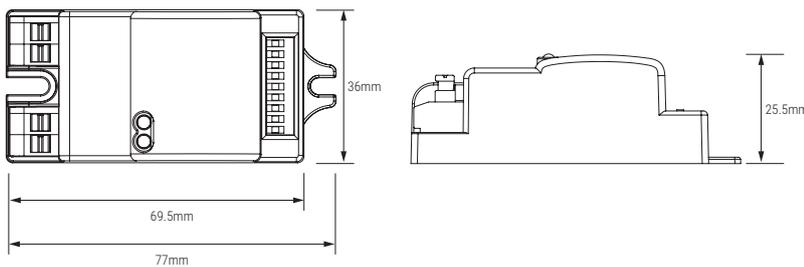
- > Corridors
- > Offices
- > Store Rooms
- > Car Parks
- > Integral Mounting into Luminaires

## FEATURES

- > Input 220 - 240 Vac, 50 Hz
- > Rated Load: 400 W (Inductive) 800 W (resistive)
- > Adjustable Detection Sensitivity from 10% - 100%
- > Adjustable Hold Time 5 sec to 30 min
- > Adjustable Daylight Sensor 2 lux to 50 lux
- > Detection Angle 360° (ceiling) 150° (Wall)
- > IP20 Rated



MICROMAC-PC



## DESCRIPTION

The MicroMac PC is an innovative and active motion detector with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials.

The sensor supplies a simple energy-saving solution to use light only when and where you need it. It automatically switches on/off light based on motion and ambient light level. Can control all kinds of lamps, for example, halogen, fluorescent and LED lights. Compact size and small casing, suitable to fix

within most luminaires. 4-pole press-in terminal (L, N, N, L), very easy to install. The high quality relay is particularly suitable for commercial use with switching power up to 400W for LEDs and fluorescent lamps and up to 800W for incandescent lamps.

Micromac PC is an innovative motion sensor, switch on the light on detection of movement, and switch off after a hold time when there is no motion detected. The MicroMac PC has a combined daylight

sensor developed to automatically switch lights on at dusk and off at dawn, providing continuous illumination through the night.

Unlike standard photocells requiring the sensor head to be fitted into the body of the luminaire, the unique design of the MicroMac PC is programmed to distinguish between daylight and LED light, enabling it to be concealed within the luminaire but still operating on daylight switching.

## TECHNICAL + OPTIONS

MODEL CODE	RATED LOAD	DETECTION SENSITIVITY	DAYLIGHT SENSOR	HOLD TIME	OVERALL SIZE
MicroMac-PC	400 W (inductive) 800 W (resistive)	10% / 25% / 50% / 75% / 100%	2 lux / 10 lux / 25 lux / 50 lux / disabled	5s / 30s / 90s / 3 min / 20 min / 30 min	77 mm W x 36 mm H x 25.5 mm D

# IntegraCell

DAYLIGHT SWITCH



## APPLICATIONS

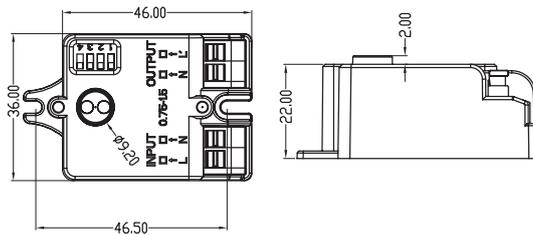
- > Integral mounting into luminaires for Dusk to Dawn daylight control
- > Operates only with LED

## FEATURES

- > Designed to sit within the luminaire
- > Eliminates need to drill sensor hole in the body of the luminaire
- > Compensates for LED artificial light and senses natural light only
- > Automatically turns on lights at dusk and off at dawn
- > Energy saving on luminaire operating times
- > Compact size for location both in large and smaller LED fittings
- > Multiple On/Off switch settings to suit specific applications for ambient light levels



INTEGRACELL



Automatically turns light fitting on at dusk



Allows light fitting to operate throughout the night



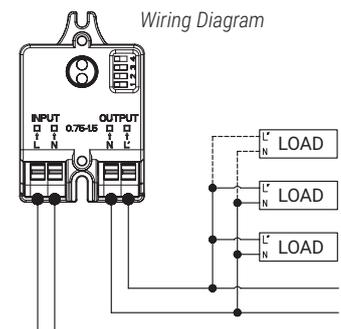
Automatically turns light fitting off at dawn

## DESCRIPTION

IntegraCell is a patented daylight sensor developed to automatically switch lights on at dusk and off at dawn, providing continuous illumination through the night. Unlike standard photocells requiring the sensor head to be fitted into the body of the luminaire, the unique design of the IntegraCell, incorporating 2 photodiodes, is programmed to distinguish between daylight and LED light, enabling it to be concealed within the luminaire but still operating on daylight switching only.

**Note:** As IntegraCell is designed solely for LED light source, it is not suitable to operate with fluorescent, halogen or tungsten.

When the ambient light level is below the 'Open' lux level, the sensor automatically switches the lights on to 100% brightness. When the ambient light level is above the 'Close' lux level, the light will automatically switch off. See below table for settings.



## TECHNICAL + OPTIONS

MODEL CODE	OPERATING VOLTAGE	RATED POWER	LUX LEVEL SWITCHING	OVERALL SIZE	OPERATING TEMPERATURE																																																															
IntegraCell	220 - 240 Vac	400 W	<p>By selecting a combination of the DIP switches, switching ON/OFF lux levels can be set as required</p> <table border="1"> <thead> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>open</th> <th>close</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>ON</td> <td>ON</td> <td>ON</td> <td>ON</td> <td>5Lux</td> <td>25Lux</td> </tr> <tr> <td>II</td> <td>ON</td> <td>ON</td> <td>ON</td> <td>-</td> <td>10Lux</td> <td>50Lux</td> </tr> <tr> <td>III</td> <td>ON</td> <td>ON</td> <td>-</td> <td>ON</td> <td>25Lux</td> <td>75Lux</td> </tr> <tr> <td>IV</td> <td>ON</td> <td>ON</td> <td>-</td> <td>-</td> <td>50Lux</td> <td>100Lux</td> </tr> <tr> <td>V</td> <td>ON</td> <td>-</td> <td>ON</td> <td>-</td> <td>100Lux</td> <td>200Lux</td> </tr> <tr> <td>VI</td> <td>ON</td> <td>-</td> <td>-</td> <td>-</td> <td>150Lux</td> <td>300Lux</td> </tr> <tr> <td>VII</td> <td>-</td> <td>ON</td> <td>-</td> <td>-</td> <td>200Lux</td> <td>400Lux</td> </tr> <tr> <td>VIII</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Disable</td> </tr> </tbody> </table>		1	2	3	4	open	close	I	ON	ON	ON	ON	5Lux	25Lux	II	ON	ON	ON	-	10Lux	50Lux	III	ON	ON	-	ON	25Lux	75Lux	IV	ON	ON	-	-	50Lux	100Lux	V	ON	-	ON	-	100Lux	200Lux	VI	ON	-	-	-	150Lux	300Lux	VII	-	ON	-	-	200Lux	400Lux	VIII	-	-	-	-	-	Disable	36 mm W x 47 mm H x 22 mm D	-20°C ~ 50°C
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PAGE 76

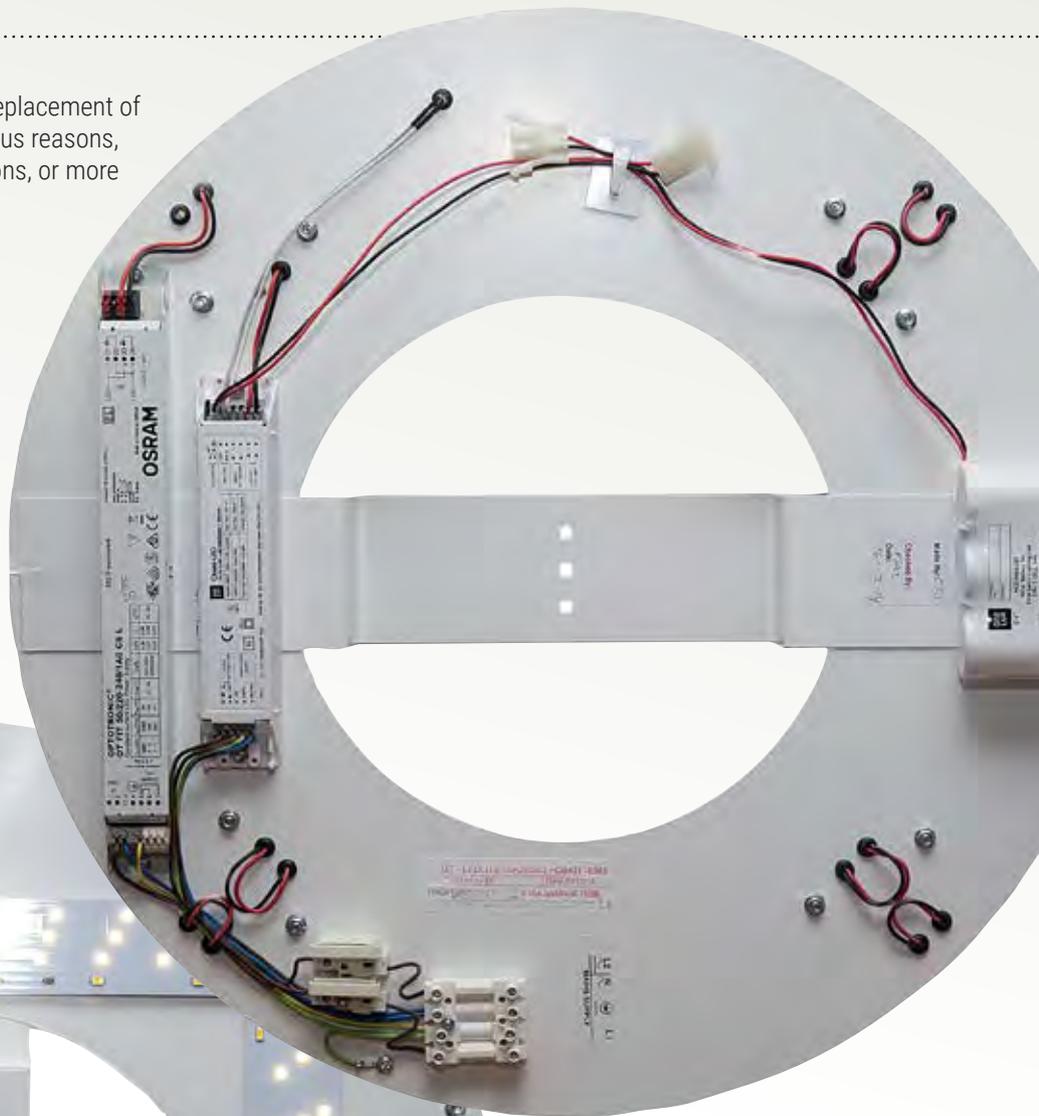
# Bespoke Retrofit Gear Tray Service

All of the luminaires within the range are equipped with LED light sources to deliver energy-efficient, high output illumination and a low on-going maintenance.

# Morgan Hope Bespoke Retrofit Gear Tray Service

At Morgan Hope we understand that full replacement of fittings is not always practical due to various reasons, which may be as simple as cost implications, or more complex where luminaire bodies could be embedded into the substrate or subject to attachment to asbestos ceiling, where the removal would have the risk of asbestos dust contamination.

Whatever the reason for requiring the retrofit gear tray option, Morgan Hope can offer a bespoke service to provide gear trays to meet on site specific requirements from its broad and versatile range of LED PCBs and Drivers. Morgan Hope will work closely with the client to ensure that the gear tray is designed to meet the detailed requirements of each application.



## OUR BESPOKE OFFER

We can offer a bespoke service to provide gear trays to meet specific on-site requirements from our broad and versatile range of LED PCBs and Drivers.



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## 'Making business sense of climate change'

The **Carbon Trust** is an independent, expert partner of leading organisations around the world, helping them contribute to and benefit from a more sustainable future through carbon reduction, resource efficiency strategies and commercialising low carbon technologies.

The Carbon Trust Standard is the world's leading independent certification of an organisation's impact on the environment by verifying action on the three primary components of environmental sustainability: energy use and associated greenhouse gas (CO<sub>2</sub>e) emissions, water use and waste output.

Life expectancy of LED bulbs compared to Incandescent bulbs is on average **10** times greater

Lighting typically consumes **20%** of the electricity used in commercial and industrial buildings

Replacement of halogen lighting by LED units has the potential to reduce electricity consumption by between **65** and **85%**

20%

x10

65-85%



*Dedicated to providing environmentally efficient lighting solutions*

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...and counting

“ Since 2008, the industry has seen the substantial advancement of both LEDs and the related drivers, and Morgan Hope has kept up with this technology development to ensure its customer base is supported with ongoing product development to meet the demands of lighting for the future. ”



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