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Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably.



Powering Business Worldwide



We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

We provide integrated solutions that help make energy, in all its forms, more practical and accessible.

With 2013 sales of \$22 billion, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.



Eaton's electrical business

Eaton is a global leader with expertise in:

- Power distribution and circuit protection
- Backup power protection
- Solutions for harsh and hazardous environments
- Lighting and security
- Structural solutions and wiring devices
- Control and automation
- Engineering services

Eaton is positioned through its global solutions to answer today's most critical electrical power management challenges. With 100 years of electrical experience behind us, we're energised by the challenge of powering up a world that demands twice as much energy as today. We're anticipating needs, engineering products and creating solutions to energise our markets today and in the future.

We are dedicated to ensuring that reliable, efficient and safe power is available when it's needed most.

Eaton.com

Terminology

The primary objective of emergency lighting is the provision of visual conditions that can alleviate panic and facilitate safer evacuation of a buildings' occupants during failure of normal power supply/lighting, in clear (non-smoke) conditions.

Australian and New Zealand Standards AS (/NZS) 2293.1: 2005 set out the requirements for the design, installation and operation of emergency evacuation lighting for buildings.

However before we go into any detail on these requirements and their implications, it is useful to look at and understand emergency lighting definitions.

Emergency lighting

Lighting provided for use when supply to the normal lighting fails.

Escape route lighting

Emergency lighting provided to ensure that the routes of escape can be effectively identified and safely used and that obstructions within the escape route are visible.

Emergency exit sign

Exit signs are required by the Building Code of Australia (BCA) to be installed in positions to indicate unambiguously the location of, and the direction of travel to the nearest exit, for any part of the building.

Emergency escape lighting

Emergency lighting that provides illumination for the safety of people leaving an area or attempting to terminate a dangerous process before vacating an area.

Stand by lighting

Emergency lighting provided to enable normal activities to continue substantially unchanged.

Open area lighting

Emergency lighting provided to avoid panic and to provide illumination allowing people to reach a place where an escape route can be identified.

High risk area task lighting

Emergency lighting provides illumination for the safety of people involved in a potentially dangerous process or situation and to enable proper shut down procedures for the operator and other occupants of the premises.

Single point self contained units

This is a luminaire providing emergency lighting in which the battery, lamp and control unit are within the luminaires, i.e. self-contained in the unit.

The luminaire will light (or remain lit, depending on type), when the mains supply fails, usually at a lower light level, compared to the light level with mains supply on.

Operation modes

There are 3 operating modes that form the basis of all installed emergency lighting systems.

Non Maintained Mode

The non maintained emergency mode is defined as a luminaire in which all the emergency lamps are in operation only when the normal mains supply fails, i.e. the lamp/s are normally off when the mains supply is on, and comes on in emergency mode when the mains supply fails.

Maintained mode

The maintained emergency mode is defined as a luminaire in which all the emergency lamps are in operation at all material times, i.e. the lamp/s are on when the mains supply is on, and remain on in emergency mode when the mains supply fails.

Sustained mode

The sustained emergency mode is defined as an emergency luminaire containing two or more lamps, at least one of which is energized from a non maintained emergency lighting supply. The remaining lights are energised and lit from the normal mains supply. Usually in sustained mode, one lamp is on when the mains supply is on, and the other lamp will come on when the mains supply fails (i.e., in principle acting as a non maintained emergency lamp).



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All dimensions shown are in millimetres and mass in kilograms unless otherwise stated. Due to continual product development, information is subject to change without notice. All documentation contained in here shall not form part of any contract.

For further information, please contact
Eaton's Cooper Safety Business on (02) 8787 2730

Emergency exit signs

Kwiklite MK3



T5 or LED universal mount

The New Generation Kwiklite offers one of the highest classifications in today's market.

Available in a choice of 3W LED or 8W fluorescent, the New Generation Kwiklite provides a solution to most applications.

A unique combination of a powerful down light and evenly illuminated exit panel provides an exceptionally high level of threshold light over the surrounding floor area, minimising the quantity of additional emergency luminaires required.

Applications include but are not limited to commercial offices areas, hospitals and shopping centres.

- Maintained
- One box solution - pictograph
- Long life, 50,000 hour energy efficient 3W LED
- 1 x 8W T5 fluorescent
- 24m viewing distance
- Slide on universal mounting bracket for wall or ceiling mount
- IP65 enclosure available
- High temperature Ni-Cad (KL8M) batteries
- High temperature Ni-Mh (KLED) batteries
- Fully approved to AS2293
- Options: Wire guard
Cantilever bracket
IP65 enclosure
Legend kit - EXIT



Design features

- A** Downlight Optic - Minimises the quantity of additional emergency luminaires required.
- B** Energy efficiency and longer life - LED option offers up to 50,000 hours lamp life and is up to 60% more energy efficient than a 10W fluorescent tube.
- C** Slide on universal mounting bracket.
- D** Optional cantilever bracket.
- E** Viewing distance - 24m viewing distance.

Installation notes

- Wall or ceiling mount.
- Power connection via knockouts in top & back of universal mounting bracket.
- Supplied c/w lamp or LED strip.
- Weatherproof enclosure can be quickly and easily fitted on site. (purchased individually)

Ordering information

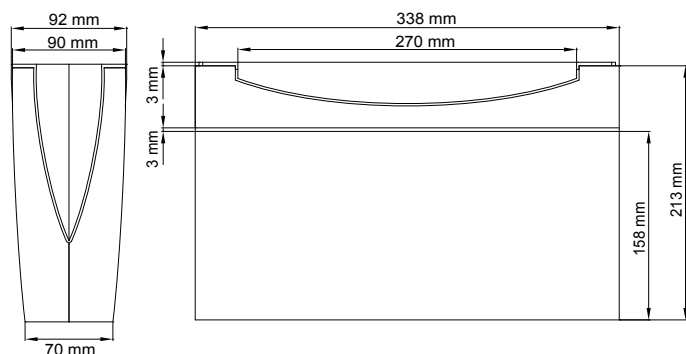
KLED	3W LED 1 box solution exit
KLED-B	3W LED 1 box solution theatre exit
KL8M	1 x 8W fluorescent 1 box solution exit
KLK-EX	Legend kit - EXIT
KLK-RM	Legend kit - PICTOGRAPH
WG-KWIK-CEILING	Wire guard - ceiling mount
WG-KWIK-WALL	Wire guard - wall mount
KLCL	Cantilever bracket
KLWP	IP65 weatherproof enclosure
KLWPWM	Wall mount bracket for KLWP
KLWPCL	Cantilever bracket for KLWP

Technical data

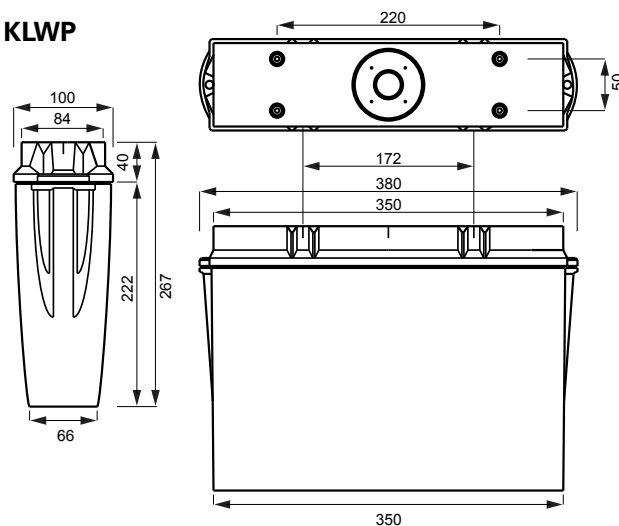
Operation mode	Maintained
Operation voltage	240V, 50Hz
Lamp detail	1 x 8W T8 Fluorescent, 6500K 3W LED strip 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard materials	Body, mounting bracket & backing cover - flame retardant PC+ABS, white finish Diffuser- Injection moulded polycarbonate Legend insert - Flame retardant PVC
Weight	KLED - 1.5kg, KL8M - 1.9kg
Warranty	3 year product warranty (KLED) 1 year product warranty (KL8M)

Dimensions

KLED/KL8M



KLWP



Emergency exit signs

Exlite



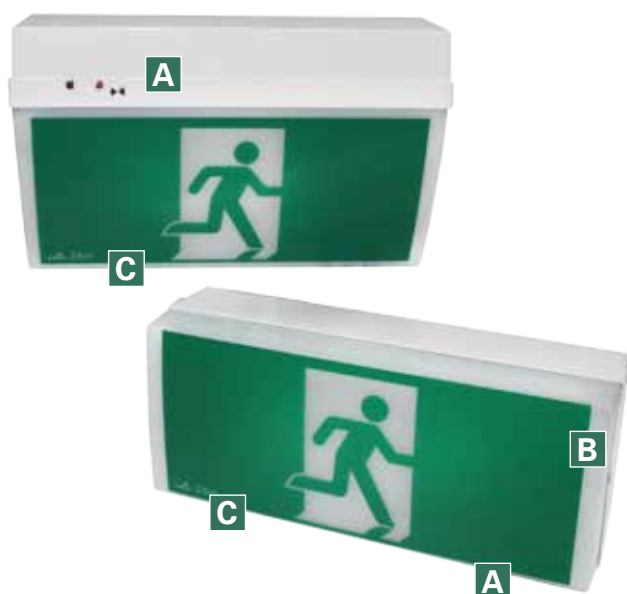
LED surface mount

Exlite is designed specifically to provide exceptional performance, stunning uniformity and low energy usage.

Exlite is available as either a wall or ceiling mount one box solution exit that is guaranteed to provide a solution in wall or ceiling mount applications where cost of ownership coupled with aesthetic appearance are a major consideration.

Applications include: commercial offices areas, restaurants, hospitals, shopping centres.

- Maintained
- Long life, 50,000 hour energy efficient 3W LED
- One box solution - pictograph
- 24m viewing distance
- Removable gear tray ensures ease of installation
- High temperature Ni-Cad batteries
- Fully approved to AS2293
- Options: Legend kit - EXIT



Design features

- A** Photometric classification - Minimises the quantity of additional emergency luminaires required.
- B** Energy efficiency and longer life - LED option offers up to 50,000 hours lamp life and is up to 60% more energy efficient than a 10W fluorescent tube.
- C** Viewing distance - 24m viewing distance.

Installation notes

- Wall or ceiling mount.
- Ideal for both new and retrofit applications.
- Supplied c/w LED strip.

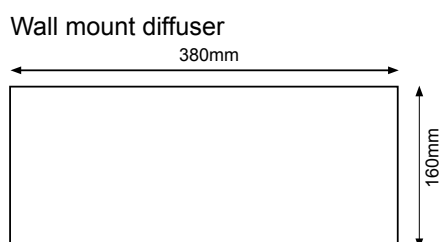
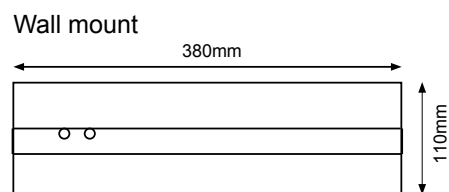
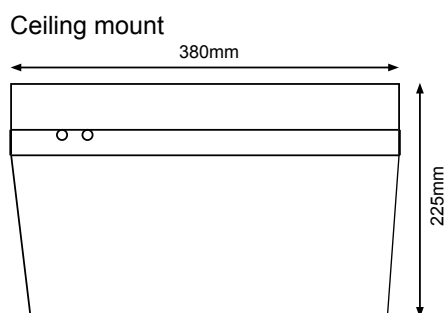
Ordering information

EXM-LED-WM	3W LED 1 box solution exit - wall mount
EXM-LED-CM	3W LED 1 box solution exit - ceiling mount
EXM-EX	Legend kit - EXIT
EXM-RM	Legend kit - Pictograph

Technical data

Operation mode	Maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED strip 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2011
Standard materials	Body and gear tray - flame retardant PC+ABS, white finish Diffuser - Injection moulded polycarbonate Legend insert - Flame retardant PVC
Weight	EXM-LED-CM - 1.5kg, EXM-LED-WM - 1.2kg
Warranty	1 year product warranty

Dimensions



Emergency exit signs

Gloline



LED recessed mount

Gloline is an unobtrusive recessed exit sign, utilising the latest LED technology.

Designed for use in prestigious locations, the recessed Gloline is suitable for flush mounting into both solid and suspended ceilings.

Installation time is kept to a minimum thanks to a separate recessing frame which has adjustable fixing clamps. The body is then simply clipped into position after connection via 3 pin plug, followed by plug into legend panel and finally the screw on cover.

Applications include commercial offices areas, restaurants, hospitals and shopping centres.

- Maintained
- Long life, 50,000 hour energy efficient 3W LED
- Recessed Mount
- Housing & blade assembly sold individually
- Single or double sided blade assembly
- 24m viewing distance
- Supplied with flex & plug for quick connection to AC supply
- High temperature Ni-Cad batteries
- Fully approved to AS2293



Design features

- A** Photometric classification - Minimises the quantity of additional emergency luminaires required.
- B** Energy efficiency and longer life - LED option offers up to 50,000 hours lamp life and is up to 60% more energy efficient than a 10W fluorescent tube.
- C** Viewing distance - 24m viewing distance.

Installation notes

- Recessed or ceiling mount.
- Shop fitted 3 pin plug & 3 core flex.
- Supplied c/w LED strip.
- Body retained in ceiling by end support brackets clamped to ceiling. Ceiling cut out size 350mm x 115mm.
- Body and diffusers sold separately.

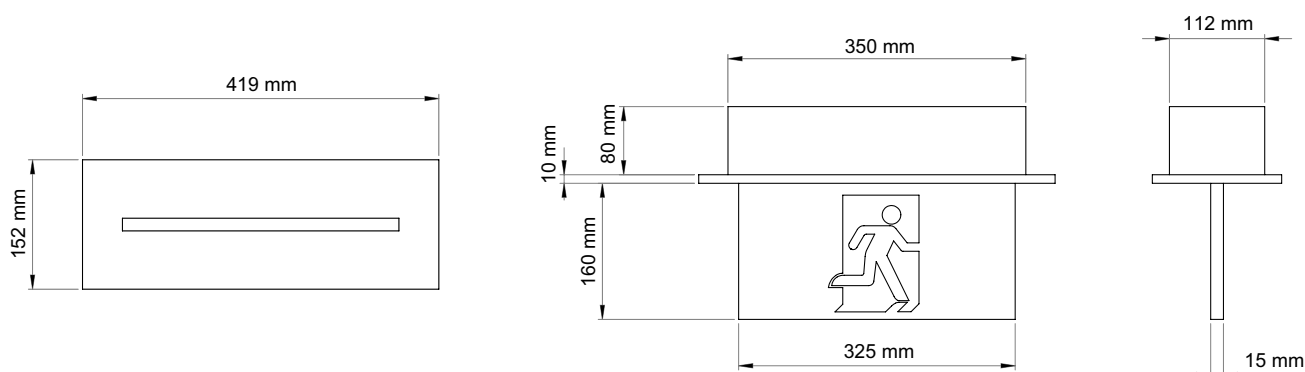
Ordering information

RELM-LED	3W LED maintained recessed housing
EL2-P-KIT	Blade assembly kit - pictograph
EL2-RSC	SS diffuser, pictograph centre
EL2-RDC	DS diffuser, pictograph centre
EL2-RDRL	DS diffuser, pictograph one way
EL2-RSL	SS diffuser, pictograph left
EL2-RSR	SS diffuser, pictograph right
EL2-ESC	SS diffuser, EXIT centre
EL2-ESL	SS diffuser EXIT left
EL2-ESR	SS diffuser EXIT right
EL2-EDRL	DS diffuser left< & right
EL2-EDC	DS diffuser, EXIT centre

Technical data

Operation mode	Maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED strip 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard materials	Body - flame retardant ABS, white finish Trim - steel powder coated, white finish Legend panel - opal acrylic c/w pre-applied decal Legend blade - clear acrylic
Weight	1.2kg
Warranty	3 year product warranty

Dimensions



Emergency exit signs

Weatherlite



IP65 fluorescent surface mount

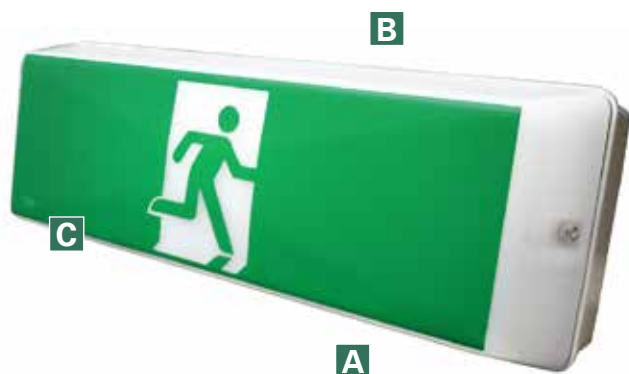
Weatherlite is a popular, traditional weatherproof luminaire, which can be used for both exterior and interior projects.

Constructed from sturdy polycarbonate, Weatherlite features a time saving first fix base plate and plug-in gear tray, ideal for convenient maintenance.

Tamper resistant screws retaining the diffuser allow the unit to be confidently employed in public areas.

Applications include but are not limited to situations where weatherproof/vandal resistance requirements exist such as:- Walkways, production facilities and carparks.

- Maintained or non maintained
- IP65
- 1 x 8W, T5 fluorescent
- c/w opal diffuser
- Optional exit legend
- Single sided wall mount
- Rapid installation, first fix base with plug in gear tray
- 16m viewing distance
- High temperature Ni-Cad batteries
- Fully approved to AS2293



Design features

- A** Photometric classification - Minimises the quantity of additional emergency luminaires required.
- B** Energy efficient 8W, T5 lamp.
- C** Viewing distance - 16m viewing distance.

Installation notes

- Wall mount.
- Cable entry on rear or side.
- Knockout provided on housing for surface conduit entry.
- Drill on site for fixing & entry holes.
- Diffuser retained by Allen key screws.
- Supplied c/w lamp.

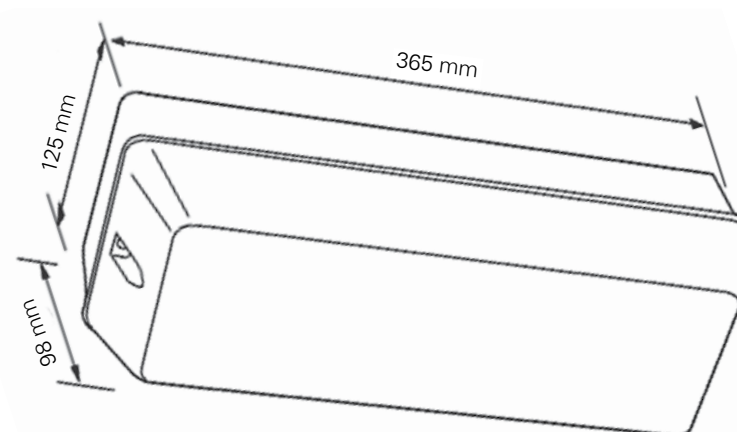
Ordering information

WLMAU	1 x 8W c/w opal diffuser
WL-EC	SS diffuser, pictograph centre
WL-EL	SS diffuser, pictograph left
WL-ER	SS diffuser, pictograph right
WL-EXC	SS diffuser, EXIT centre
WL-EXL	SS diffuser, EXIT left
WL-EXR	SS diffuser, EXIT right
WL-O	Opal diffuser

Technical data

Operation mode	Maintained or non maintained
Operation voltage	240V, 50Hz
Lamp detail	8W, T5 fluorescent, 5000K 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard materials	IP65 base - polycarbonate, grey finish Diffuser - UV stable, opal acrylic Gear tray - powder coated steel, white finish
Weight	1.5kg
Warranty	1 year product warranty

Dimensions



Emergency exit signs

Ultimate Exit



IP66 LED universal mount

Ultimate Exit is a long-life, low-maintenance, dependable exit sign which combines the strength and durability of die-cast aluminium with architecturally pleasing aesthetics.

Designed for the most severe environments, the UXM-LED exit will provide maximum performance against rain, moisture, cold, corrosives, and dust.

The injection-moulded, clear, polycarbonate diffuser not only provides protection against moisture and rain but vandalism as well.

Applications include food processing facilities, outdoor parking garages, walk-in freezers, and other indoor/outdoor severe environments.

- Maintained
- Long life, 50,000 hour energy efficient 3W LED
- IP66, diecast aluminium housing powder coated finish
- 24m viewing distance
- Four Torx® head tamper proof screws with centre-pin reject provide additional vandal-proof security.
- Vandal resistant polycarbonate diffuser
- Universal mount
- Supplied c/w 2 x diffusers (clear only) for single or double sided applications
- High temperature Ni-Cad batteries
- Fully approved to AS2293



Design features

- A** Energy efficiency and longer life - LED option offers up to 50,000 hours lamp life and is up to 60% more energy efficient than a 10W fluorescent tube.
- B** Robust vandal resistant construction.
- C** Viewing distance - 24m viewing distance.

Installation notes

- Wall, ceiling, pendant or cantilever mount.
- Universal BESA mounting bracket supplied with fixture.
- Entry drill outs on rear, sides & top.
- Pictograph opal insert to be fixed on site as required.
- Diffuser retained by stainless steel Torx head screws
- Supplied c/w LED light strip.
- Body and legend sold separately.

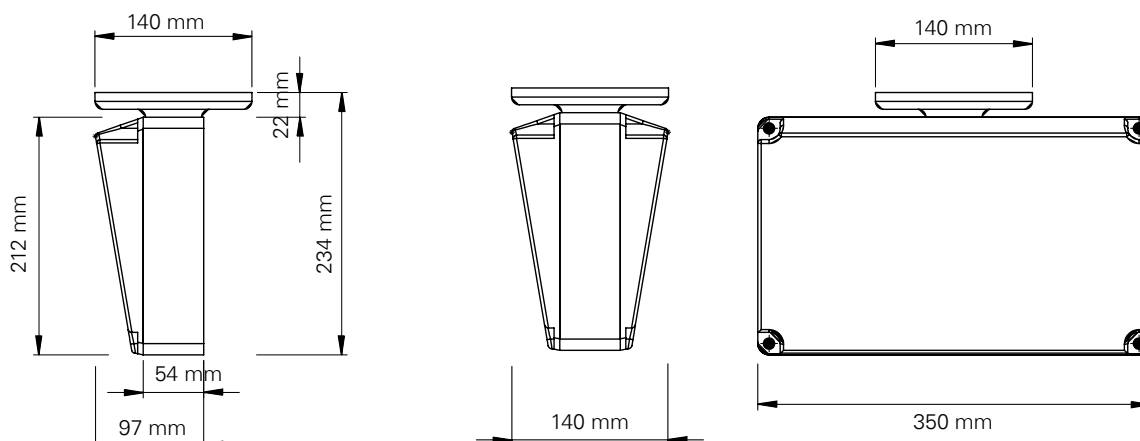
Ordering information

UXM-LED	3W maintained LED housing
UXM-LED-FR	3W maintained LED housing -30° Freezer Room
UX-EC	Pictograph legend centre
UX-EL	Pictograph legend left
UX-ER	Pictograph legend right
UX-EXC	EXIT legend centre
UX-EXL	EXIT legend left
UX-EXR	EXIT legend right

Technical data

Operation mode	Maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED strip 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard materials	Body - heavy duty die cast aluminium, powder coated - grey finish Diffuser - UV stable, clear polycarbonate, vandal resistant Gear tray - powder coated steel, white finish
Weight	4.7kg
Warranty	3 year product warranty

Dimensions



Interior emergency luminaires

UFO series



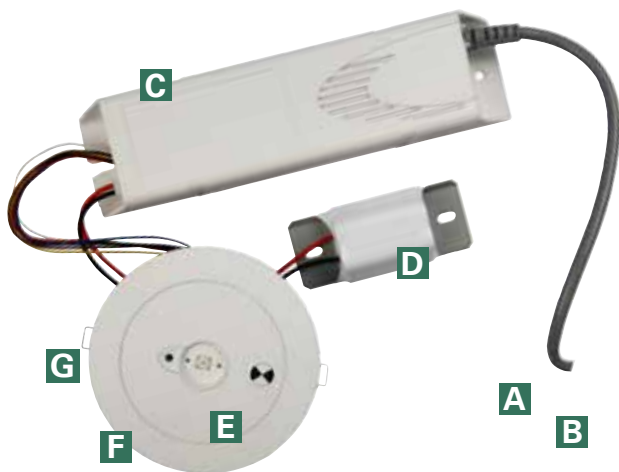
LED recessed

LED technology offers new possibilities for emergency lighting, allowing luminaires to be more discreet, use less energy, have a lower environmental impact and require dramatically less maintenance than before.

The UFO LED is a stylish, modern and easy to install non maintained luminaire suitable for both new (70mm cutout) and retrofit (70mm-110mm cutout) applications.

Applications for the UFO-LED include but are not limited to: stairwells and other escape route areas, offices, restaurants, hospitals, shopping centres.

- Non maintained
- Recessed
- LED
- Superior light output
- Versatile construction
- Theatre option
- Choice of spinning assembly sizes
- Ideal for both new & retrofit applications
- High temperature Ni-Mh batteries
- Fully approved to AS2293



Design features

- A** Superior light output - C0, C90: D40
- B** Energy efficiency and longer life - 50,000 hours
- C** Dual rate charge inverter -very low stand by usage
- D** Environmentally friendly Ni-Mh battery pack
- E** 85mm spinning for new applications (70mm cut out)
- F** Adaptor plate for retrofit applications (up to 110mm cut out)
- G** Spring fixing allows installation on ceilings from 1mm to 20mm

Installation notes

- Suitable for flush mounting into suspended ceilings.
- Spinning assembly retained by steel clips.
- Plug and go assembly.

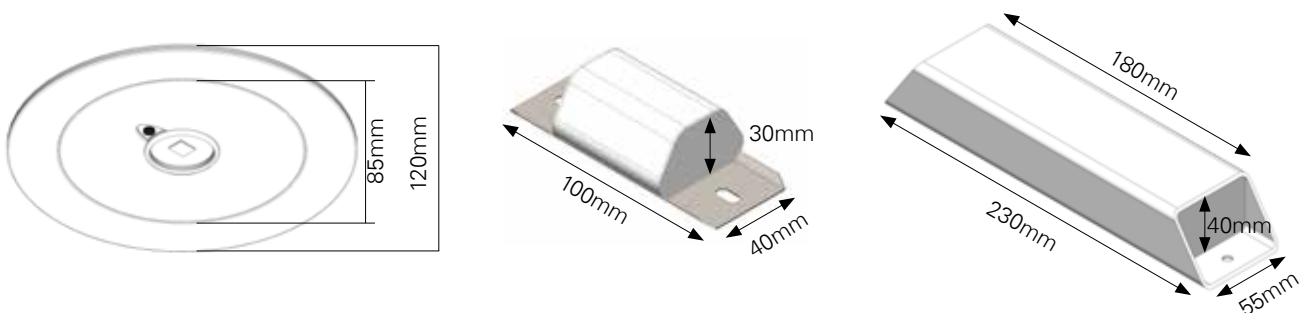
Ordering information

UFO-LED	Recessed mount non maintained emergency (complete fitting, white finish)
UFO-LED-B	3W LED black Theatre mask non-maintained emergency
UFO-LED-BLK	Theatre conversion kit - KIT ONLY (spinning and adaptor plate only, black finish)
UFO-LED-CD	IP44 recessed mount non maintained emergency (complete fitting and clear dome, white finish)

Technical data

Operation mode	Non maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2011
Standard materials	Housing - PC + ABS, choice of black or white finish Spinning assembly - PC + ABS
Weight	0.6kg
Warranty	3 year product warranty

Dimensions



Interior emergency luminaires

UFO series



LED surface mount

The UFO-LED-SM has been designed to ease installation, reduce power consumption and minimise maintenance, reducing the TCO (total cost of ownership) without compromising building aesthetics.

Applications for the UFO-LED-SM include but are not limited to: stairwells and other escape route areas, offices, restaurants, hospitals, shopping centres, car parks, warehouses and factories.

- Non maintained
- Surface mount
- Modern light weight construction
- LED
- Superior light output
- Available as a complete luminaire or conversion kit for existing UFO-LED's
- Ideal for both new & retrofit applications
- High temperature Ni-Mh batteries
- Fully approved to AS2293



Design features

- A** Superior light output - C0, C90: D40
- B** Energy efficiency and longer life - 50,000 hours.
- C** Dual rate charge inverter -very low stand by usage
- D** Environmentally friendly Ni-Mh battery pack
- E** 3 x 20mm conduit entries
- F** Light weight PC + ABS construction for ease of installation

Installation notes

- Surface mount onto ceilings & where required walls.
- Lower base plate fixed direct, via mounting hole.
- Knockout provided on housing for surface conduit entry.

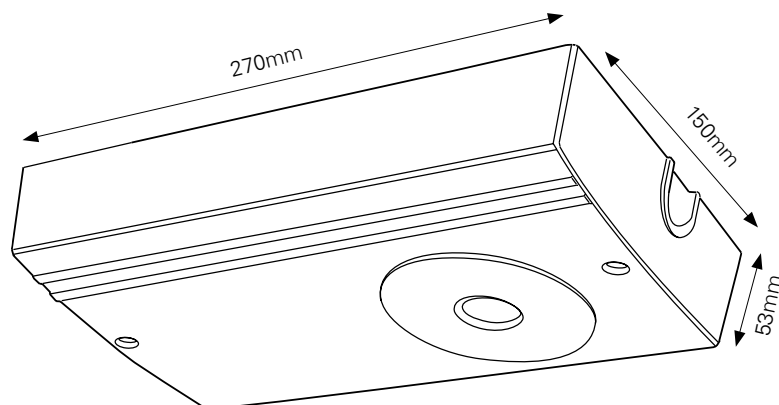
Ordering information

UFO-LED-SM	Surface mount non maintained emergency (complete fitting, white finish)
UFO-LED-SM-B	Theatre surface mount non maintained emergency (complete fitting, black finish)
UFO-LED-SMK	Surface mount conversion kit used to quickly and effortlessly transform recessed mount UFO LED to a surface mount luminaire.

Technical data

Operation mode	Non maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2011
Standard materials	Housing - PC + ABS
Weight	0.7kg (complete fitting) 0.4kg (kit only)
Warranty	3 year product warranty

Dimensions



Interior emergency luminaires

Vistral



T5 surface mount

Equally at home in prestigious installations and commercial interiors, Vistral is an ultra-low profile luminaire with a stylish design, allowing it to blend unobtrusively into any environment.

The luminaire has a maximum depth of only 50mm and appears even slimmer thanks to an elegantly curved upper gallery, which also incorporates the efficient clear fresnel lens.

- Maintained or non maintained
- Wall or ceiling mount
- Easy to install
- 50mm depth
- Clear fresnel lens
- Supplied c/w lamp
- High temperature Ni-Cad batteries
- Fully approved to AS2293



Design features

- A** Attractive, curved low profile design
- B** Energy efficient T5 lamp
- C** Ni-Cad battery pack

Installation notes

- Wall or ceiling mount.
- Reflector assembly held by keyhole slots for ease of installation.
- BESA entry on rear - cable entries on side & end.
- Supplied c/w T5 lamp.

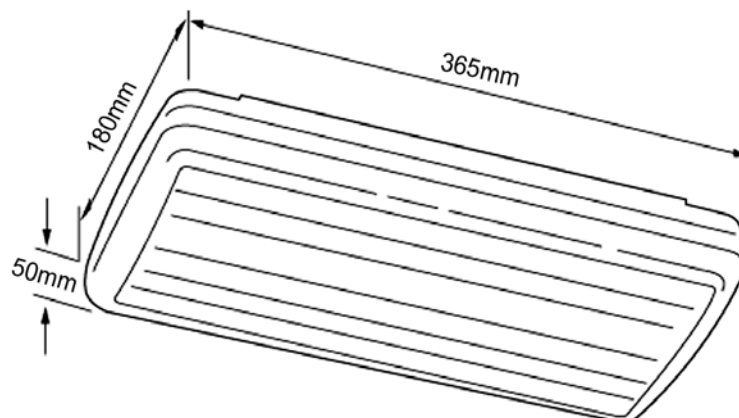
Ordering information

VSMAU	1 x 8W maintained or non maintained
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Technical data

Operation mode	Maintained or non maintained
Operation voltage	240V, 50Hz
Lamp detail	1 x 8W, T5 fluorescent, 3500K 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard materials	Upper/lower gallery - polycarbonate and ABS white finish Lens - UV stable, clear polycarbonate
Weight	1.4kg
Warranty	1 year product warranty

Dimensions



Interior emergency luminaires

CBT series



**NEW
PRODUCT
2015**

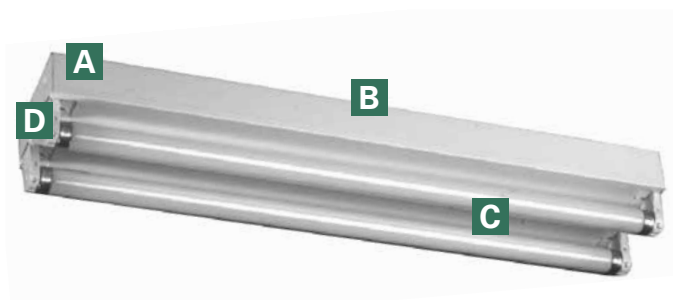
T5 or T8 fluorescent

CBT battens are designed for wall, ceiling or suspended indoor applications and are particularly suitable for high-rise or underground car parks where extra width is required to cover junction boxes.

CBT battens offer a variety of add-on accessories including square diffusers, wire guards and reflectors. Bare battens can be end-to-end mounted without additional parts.

Applications include: general commercial interiors, retails, carparks and passageways.

- Maintained or non maintained
- Wide body project battens
- T5 or T8
- Electronic ballast
- Easy to install
- Optional wire guard and diffuser kits
- High temperature Ni-Cad batteries
- Fully approved to AS2293



Design features

- A** Wide body
- B** Large terminal block for ease of wiring
- C** A2 electronic ballast
- D** 20mm cable entry

Installation notes

- Suitable for direct fix, conduit or chain suspension.
- BESA entries.
- End cable entries via knockout.
- Supplied without lamps.

Ordering information

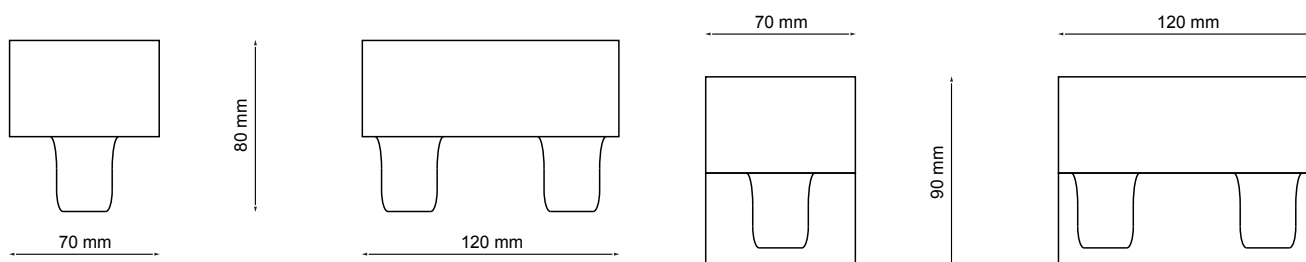
CBT218	2 x 18W, T8, mains only
CBT136	1 x 36W, T8, mains only
CBT236	2 x 36W, T8, mains only
CEBT218	2x 18W, T8, maintained emergency
CEBT136	1 x 36W, T8, maintained emergency
CEBT236	2 x 36W, T8, maintained emergency
CBT128	1 x 28W, T5, mains only
CBT228	2 x 28W, T5, mains only
CEBT128	1 x 28W, T5, maintained emergency
CEBT228	2 x 28W, T5, maintained emergency
CDP218	Diffuser Kit to suit CBT218 & CEBT218
CDP136	Diffuser Kit to suit CBT136, CEBT136, CBT128 & CEBT128
CDP236	Diffuser kit to suit CBT236, CEBT236, CBT228 & CEBT228
CWG218	Wire guard kit to suit CBT218 & CEBT218
CWG136	Wire guard kit to suit CBT136, CEBT136, CBT128 & CEBT128
CWG236	Wire guard kit to suit CBT236, CEBT236, CBT228 & CEBT228

Technical data

Operation mode	Mains only, maintained or non maintained
Operation voltage	240V, 50Hz
Lamp detail	18 & 36W, T8 or 28W, T5 fluorescent 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard materials	Body assembly - rigid steel wide channel, powder coated, white finish Diffuser - UV stabilised transparent styrene prisms
Warranty	1 year product warranty

Dimension	L (mm)	W (mm)	D (mm)
2 x 18W bare	615	120	80
1 x 36 or 1 x 28W bare	1230	70	80
2 x 36 or 2 x 28W bare	1230	120	80
2 x 18W c/w diffuser or wire guard	620	120	90
1 x 36 or 1 x 28W c/w diffuser or wire guard	1235	70	90
2 x 36 or 2 x 28W c/w diffuser or wire guard	1235	120	90

Dimensions



Exterior emergency luminaires

CWP series



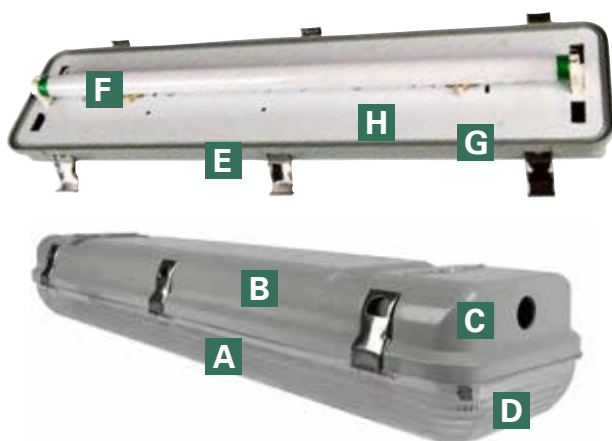
IP65 T8 fluorescent

CWP battens are specifically designed for use in applications where they may be subjected to wet or dusty conditions.

Matching mains only and emergency luminaires both feature a robust construction with a deep poured gasket seal for IP65 protection against the ingress of dust and water.

Quick and easy to install, the CWP provides an aesthetically pleasing luminaire which is perfectly suited to a wide range of residential, commercial and industrial applications.

- Maintained or non maintained
- IP65 weatherproof
- T8
- Electronic ballast
- Easy to install
- High temperature Ni-Cad batteries
- Fully approved to AS2293



Design features

- A** IP65 protection against dust and water
- B** Fire retardant polycarbonate body
- C** 20mm cable entry
- D** UV stabilised, fire retardant prismatic polycarbonate diffuser
- E** Stainless steel clips
- F** OSRAM T8 840 lamps supplied
- G** 6mm terminal block for ease of wiring
- H** Tridonic A2 ballast

Installation notes

- Fast fit stainless steel suspension clips & nylon lanyards.
- Supplied complete with sealing plug and 20mm gland.

Ordering information

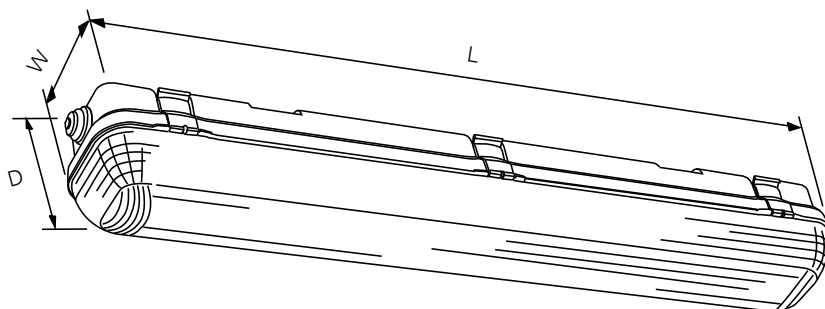
CWP118	1 x 18W mains only
CWP218	2 x 18W mains only
CWP136	1 x 36W mains only
CWP236	2 x 36W mains only
CEWP118	1 x 18W emergency
CEWP218	2 x 18W emergency
CEWP136	1 x 36W emergency
CEWP236	2 x 36W emergency

Technical data

Operation mode	Mains only, maintained or non maintained
Operation voltage	240V, 50Hz
Lamp detail	18 or 36W T8 fluorescent, 4000K 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard materials	Body - fire retardant polycarbonate Prismatic diffuser - UV stabilised, fire retardant polycarbonate, powder coated steel
Warranty	1 year product warranty

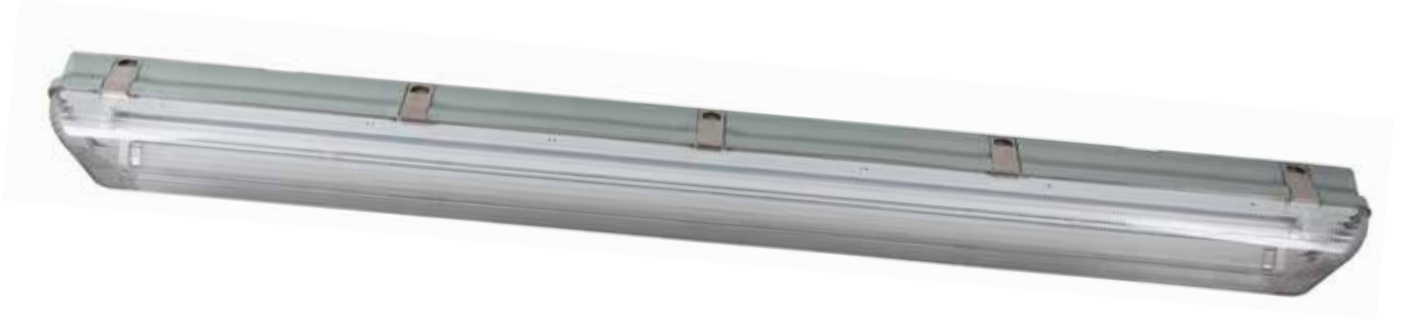
Dimension	L (mm)	W (mm)	D (mm)	Weight (kg)
CWP118 & CEWP118	660	150	105	1.6 & 2.4
CWP218 & CEWP218	660	150	105	1.7 & 2.5
CWP136 & CEWP136	1270	100	105	2.5 & 3.4
CWP236 & CEWP236	1270	150	105	3.1 & 3.9

Dimensions



Exterior emergency luminaires

CWP series



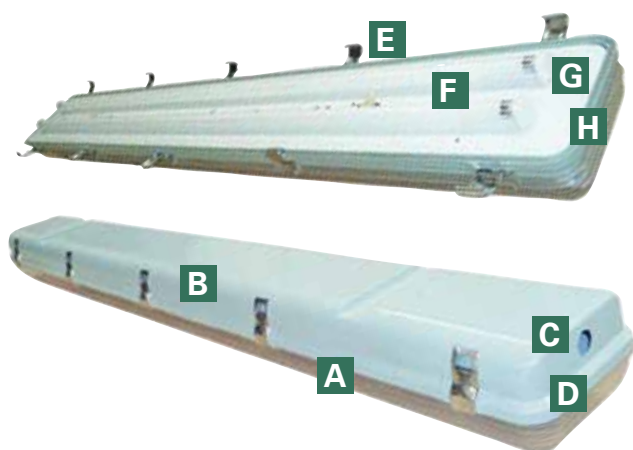
IP65 T5 fluorescent

CWP battens are specifically designed for use in applications where they may be subjected to wet or dusty conditions.

Matching mains only and emergency luminaires both feature a robust construction with a deep poured gasket seal for IP65 protection against the ingress of dust and water.

Quick and easy to install, the CWP provides an aesthetically pleasing luminaire which is perfectly suited to a wide range of residential, commercial and industrial applications.

- Maintained or non maintained
- IP65 weatherproof
- T5
- Electronic ballast
- Easy to install
- High temperature Ni-Cad batteries
- Fully approved to AS2293



Design features

- A** IP65 protection against dust and water
- B** Fire retardant polycarbonate body
- C** 20mm cable entry
- D** UV stabilised, fire retardant prismatic polycarbonate diffuser
- E** Stainless steel clips
- F** OSRAM T5 840 lamps supplied
- G** 6mm terminal block for ease of wiring
- H** Tridonic A2 ballast

Installation notes

- Fast fit stainless steel suspension clips & nylon lanyards.
- Supplied complete with sealing plug and 20mm gland.

Ordering information

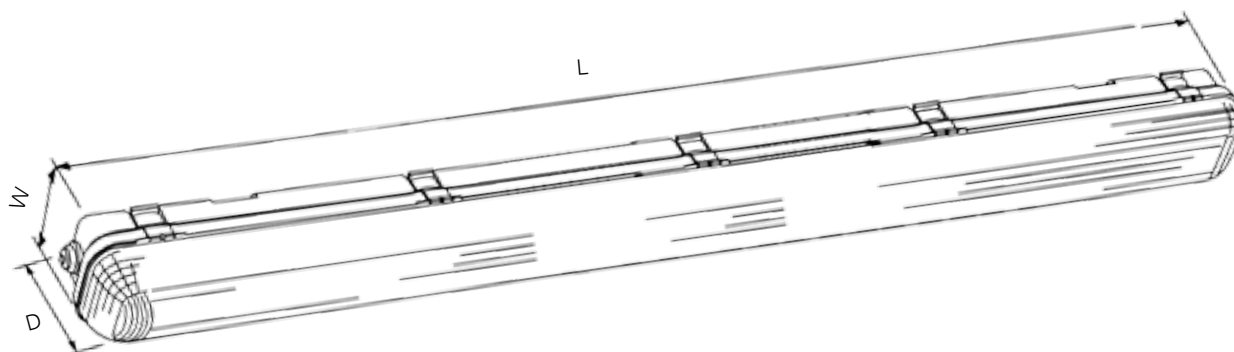
CWP128	1 x 28W mains only
CWP228	2 x 28W mains only
CEWP128	1 x 28W emergency
CEWP228	2 x 28W emergency

Technical data

Operation mode	Mains only, maintained or non maintained
Operation voltage	240V, 50Hz
Lamp detail	28W T5 fluorescent, 4000K 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard materials	Body - fire retardant polycarbonate Prismatic diffuser - UV stabilised, fire retardant polycarbonate
Warranty	1 year product warranty

Dimension	L (mm)	W (mm)	D (mm)	Weight (kg)
CWP128 & CEWP128	1270	100	105	2.5 & 3.4
CWP228 & CEWP228	1270	150	105	3.1 & 3.9

Dimensions



Emergency floodlights

ZCC4



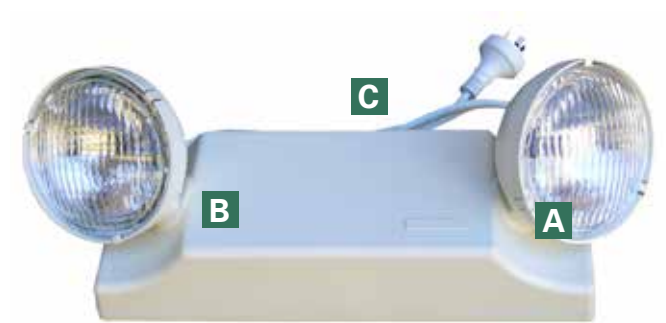
Tungsten halogen

The ZCC4 contractor's choice emergency floodlight is the ideal choice when simple installation coupled with reasonable cost is required.

Contemporary round corner styling, designer white finish, and consistent family appearance enables the ZCC4 to blend with any decor. The components are injection moulded from tough polycarbonate materials which resist discoloration due to age and ultraviolet radiation.

Applications include but are not limited to: shopping malls, public auditoriums, sports halls, warehouses, factories and commercial premises.

- Non maintained
- 2 x 9W
- Housing tethered to mounting plate
- Fully adjustable, high impact polycarbonate lamp heads
- c/w Standard 3 core and pin plug
- Glare free trapezoidal light distribution
- Impact and flame resistant thermoplastic
- Sealed Lead Acid battery
- Fully approved to AS2293



Design features

- A** Lamp heads swivel and tilt
- B** Compact and attractive
- C** Lead acid battery

Installation notes

- Wall and ceiling mount.
- Factory fitted 3 core flex and 3 x pin plug.
- Direct screw fixed with keyhole slots in rear of housing.
- Supplied c/w lamps.

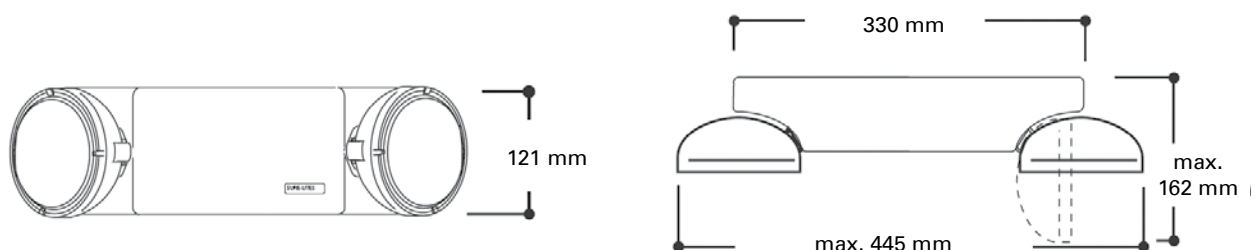
Ordering information

ZCC4	2 x 9W economy non maintained emergency flood light
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Technical data

Operation mode	Non maintained
Operation voltage	240V, 50Hz
Lamp detail	6V, 9W Incandescent - GE908 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard materials	Body and lamp heads - fire retardant PC + ABS, white finish Lamp heads - PC + ABS white finish with clear lens
Weight	3.6kg
Warranty	1 year product warranty

Dimensions



Emergency floodlights

Beamlite



Tungsten halogen

Beamlite can be used for a wide variety of interior emergency lighting applications, particularly warehouses and high ceiling commercial areas.

The high intensity light source provides efficient illumination of long, narrow escape routes, but can also provide general coverage of a specific area for such as critical task locations where higher illumination is required.

Beamlite has keyhole slot screw fixing holes and a hinged front access door providing ease of installation, whilst the standard twin LED indicator lamps give separate early warning of failure of each lamp, in addition to mains and charging status. An IP55 weatherproof version is available for wet or dusty areas.

Applications include but are not limited to shopping malls, airports, public auditoriums, sport halls, warehouses, factories and commercial premises.

- Non maintained
- 2 x 21W or 2 x 55W
- Wall mount
- Adjustable lamp heads
- Easy installation, with housing fixed direct, via key hole slots
- Sealed Lead Acid battery
- Fully approved to AS2293 (excludes BEN1AU)



Design features

- A** Lamp heads swivel and tilt
- B** Lamp heads lock in position by screws
- C** Hinged front cover for easy access

Installation notes

- Wall mount.
- Direct screw fixed with keyhole slots in rear of housing.
- Supplied c/w lamps.

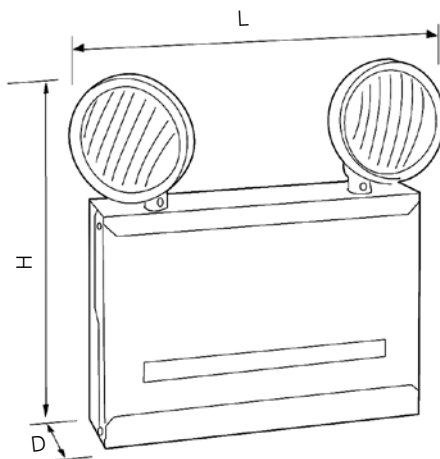
Ordering information

BEN3AU	2 x 21W non maintained IP20 floodlight, 2 hour emergency duration		
BEN3WAU	2 x 21W non maintained IP55 floodlight, 2 hour emergency duration		
BEN1AU	2 x 55W non maintained IP20 floodlight, 1 hour emergency duration		
Approved for use in New Zealand market only			
	L (mm)	H (mm)	D (mm)
Standard	325	370	82
Weatherproof	300	565	180

Technical data

Operation mode	Non maintained
Operation voltage	240V, 50Hz
Lamp detail	2 x 21 watt tungsten halogen BA15D cap 2 x 55 watt tungsten halogen H3 2 hour emergency duration - BEN3AU & BEN3WAU 1 hour emergency duration - BEN1AU
Certification	AS2293:2005, CISPR15:2006
Standard materials	Body (IP20) - sheet steel, powder coated in white with black finish Body (IP55) - fibre glass c/w grey finish Lamp heads (IP20) polycarbonate c/w black finish Lamp heads (IP55) black finish with glass lens
Weight	BEN3AU - 8.7kg, BEN1AU - 11.3kg, BEN3WAU - 14.4kg
Warranty	1 year product warranty

Dimensions



Interior / exterior emergency luminaires

Weatherlite



IP65 T5 fluorescent

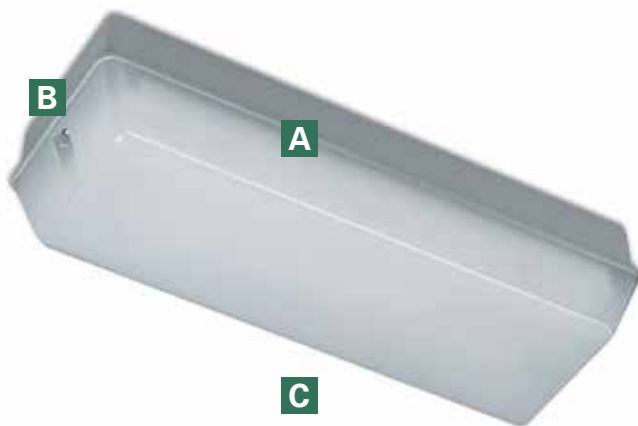
Weatherlite is a popular, traditional weatherproof luminaire, which can be used for exterior and interior projects.

Constructed from sturdy polycarbonate, Weatherlite features a time saving first fix base plate and plug-in gear tray, ideal for convenient maintenance.

Tamper resistant screws retaining the diffuser allow the unit to be confidently employed in public areas.

Applications include but are not limited to situations where weatherproof/vandal resistance requirements exist such as walkways, production facilities and carparks.

- Maintained or non maintained
- IP65
- 1 x 8W, T5 fluorescent
- c/w opal diffuser
- Wall or ceiling mount
- Rapid installation, first fix base with plug in gear tray
- High temperature Ni-Cad batteries
- Fully approved to AS2293



Design features

- A** IP65
- B** Vandal proof
- C** Energy efficient 8W, T5 lamp

Installation notes

- Wall or ceiling mount.
- Cable entry on rear or side.
- Knockout provided on housing for surface conduit entry.
- Drill on site for fixing & entry holes.
- Diffuser retained by Allen key screws.

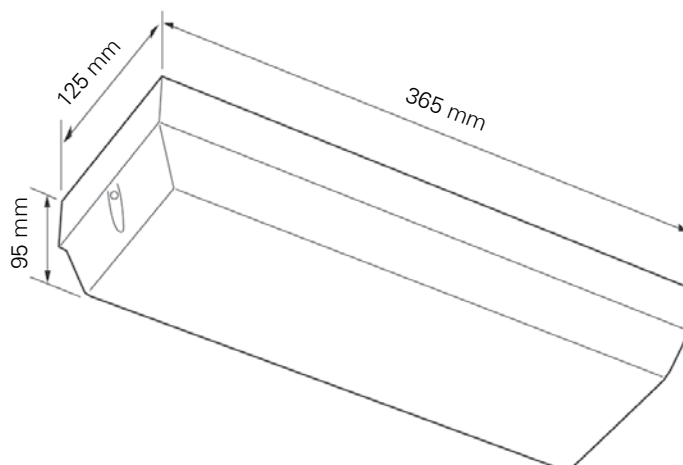
Ordering information

WLMAU	1 x 8W c/w opal diffuser
WL-O	Opal diffuser

Technical data

Operation mode	Maintained or non maintained
Operation voltage	240V, 50Hz
Lamp detail	8 watt T5 fluorescent, 3500K 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard materials	IP65 base - polycarbonate, grey finish Diffuser - UV stable, opal acrylic Gear tray - powder coated steel, white finish
Weight	1.5kg
Warranty	1 Year product warranty

Dimensions



Interior / exterior emergency luminaires

Britelite



IP65 T5 fluorescent

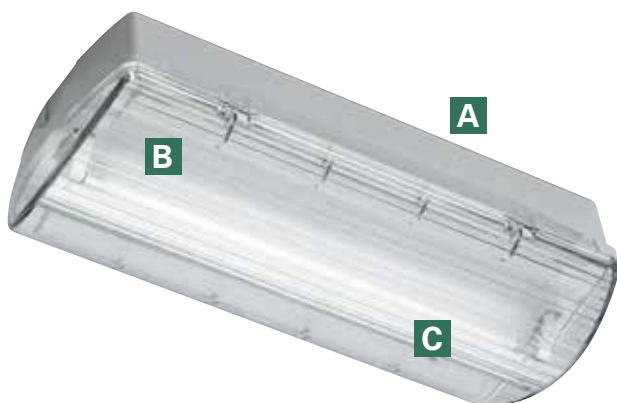
Weatherproof, stylish and robust, the Britelite is suitable for practically any application and location.

The convenience of a first fix base, plug in gear tray and self locking snap on vandal resistant lens greatly speeds installation, saving time and cost.

The robust, fully polycarbonate construction and IP65 rating affords enhanced protection for even the most vulnerable locations.

Applications include but are not limited to weatherproof environments, warehouse, production facilities & carparks.

- Maintained or non maintained
- IP65
- 1 x 8W, T5 fluorescent
- Surface mount
- Rapid installation, first fix base with plug in gear tray
- Self locking snap on diffuser lens requires tool for removal offering vandal protection
- High temperature nickel cadmium batteries
- Fully approved to AS2293



Design features

- A** IP65
- B** Tough polycarbonate diffuser
- C** Energy efficient 8W, T5 lamp

Installation notes

- Wall or ceiling mount.
- Cable entry on rear or side.
- Knockout provided on housing for surface conduit entry.
- Drill on site for fixing & entry holes.
- Clip on diffuser.

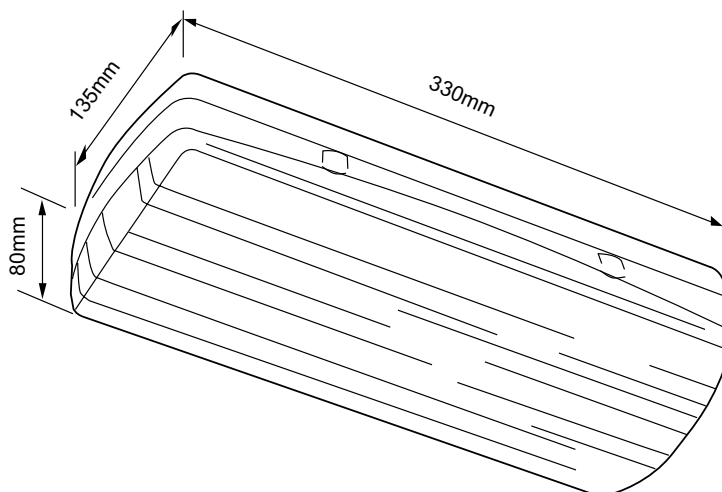
Ordering information

BLMAU	1 x 8W c/w prismatic diffuser
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Technical data

Operation mode	Maintained or non maintained
Operation voltage	240V, 50Hz
Lamp detail	8 watt T5 fluorescent, 3500K 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard materials	Base gear tray and lens - polycarbonate
Weight	1.5kg
Warranty	1 Year product warranty

Dimensions



Interior / exterior emergency luminaires

DRG



IP65 fluorescent

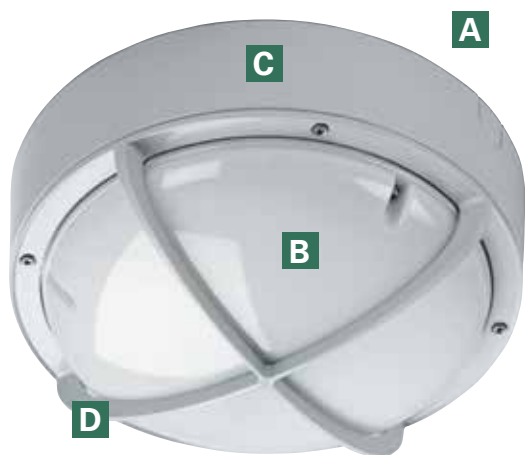
A strong die cast base and tough, tamper resistant polycarbonate diffuser affords the DRG range an extremely high level of vandal resistance.

Whilst robust, DRG is also stylish and attractive and will blend into a variety of contemporary and period applications, both interior and exterior.

The style and resilience is further enhanced by an optional die cast aluminium grille and patress kit, which has functional security screws and special channels on the back, allowing the kit to fit flush over surface conduit.

DRG is also available with matching mains only version for attractive, efficient general illumination.

- Matching emergency or mains only
- IP65
- 1 x 28W, 2D lamp
- Dust tight and weatherproof
- Wall or ceiling mount
- Optional grille and patress kit for flush mounting over conduit
- Tamper resistant Hex screws
- High temperature Ni-Cad batteries
- Fully approved to AS2293
- Made to order



Design features

- A** IP65
- B** Tough polycarbonate diffuser
- C** Electronic ballast
- D** Optional grille and pattress kit

Installation notes

- Wall or ceiling mount.
- BESA drill outs on rear.
- Diffuser retained by Allen key screws.
- Supplied complete with lamp.

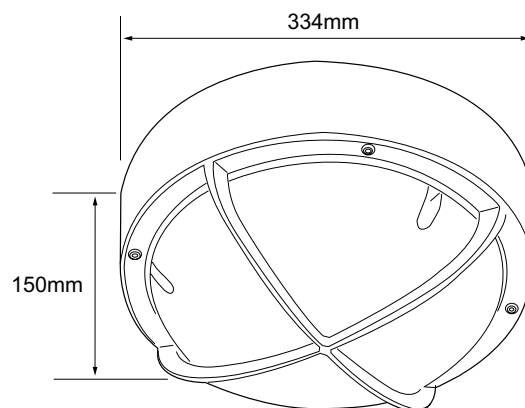
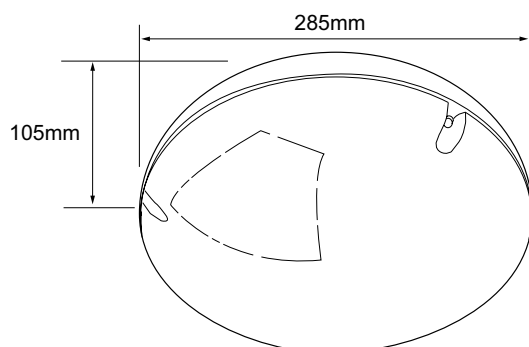
Ordering information

DRG28NM	1 x 28 watt 2D non maintained
DRG28M	1 x 28 watt 2D maintained
DRG28AC	1 x 28 watt mains only
DRGACKIT	Grille and pattress kit
VPC	Photocell kit to suit

Technical data

Operation mode	Maintained or non maintained
Operation voltage	240V, 50Hz
Lamp detail	28 watt 2D compact fluorescent 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard material	Body - heavy duty die cast aluminium, grey powder coated Diffuser - UV stable, opal polycarbonate, vandal resistance Geartray - steel, powder coated, white finish
Weight	2 kg
Warranty	1 Year product warranty

Dimensions



Interior / exterior emergency luminaires

Vienza



IP65 fluorescent

The Vienza range brings a touch of style to both interior and exterior applications where a tough, water proof, energy efficient light source is required.

Designed to offer a variety of finished appearances, the Vienza blends effortlessly into a multitude of environments with the help of its smooth seamless profile.

Both emergency and mains only versions encompass vandal resistant polycarbonate construction whilst offering a choice of opal or clear prismatic diffusers incorporating internal prisms, providing a smooth, wipe clean exterior.

Mounting skirt and eyelid attachments for the round version, together with photocell kits complete the range, making Vienza a truly versatile lighting solution.

- Matching emergency or mains only
- IP65
- 1 x 28W, 2D lamp
- Dust tight and weatherproof
- Wall or ceiling mount
- Opal diffusers
- c/w mounting skirt
- Optional eye lid for wall mount
- High temperature Ni-Cad batteries
- Fully approved to AS2293



Design features

- A** IP65
- B** Tough polycarbonate diffuser
- C** Electronic ballast
- D** Optional eye lid

Installation notes

- Suitable for ceiling or wall mounting.
- BESA entry drill out points on rear.
- Round mounting skirt attachment allows flush fixing over 20mm conduit and BESA box.
- Diffuser retained by captive screws with covers.
- Supplied complete with lamp.

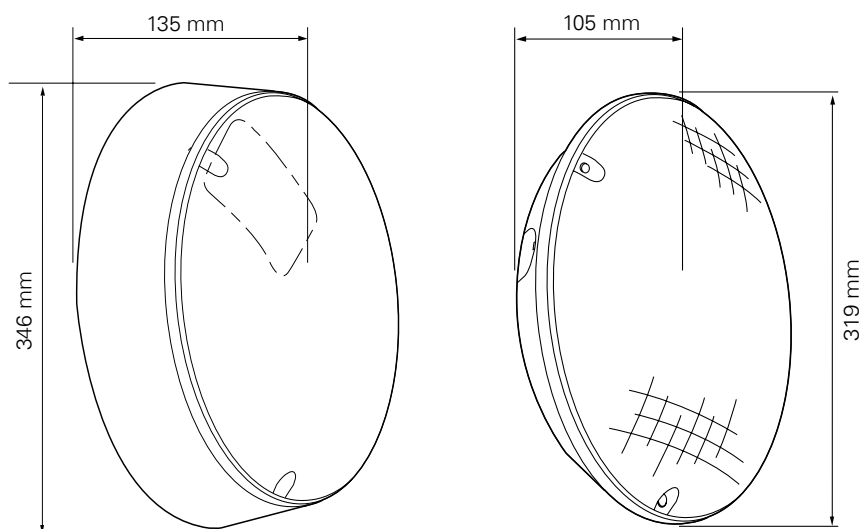
Ordering information

EBVRWO28AU	1 x 28W 2D maintained c/w IP65 white polycarbonate housing and opal diffuser Decorative Circular Emergency Luminaire - complete with lamp and mounting skirt
VRWO28AU	1 x 28W mains only c/w white housing, opal diffuser - complete with lamp and mounting skirt
VRWE	Round white eyelid to suit Menvier Vienza
VPC	Photocell kit
VRWS	Mounting skirt - white

Technical data

Operation mode	Mains only, maintained & non maintained
Operation voltage	240V, 50Hz
Lamp detail	28W 2D compact fluorescent, 3500K 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard material	Base, eyelid and mounting skirt - polycarbonate, white finish Diffuser - opal or clear polycarbonate with internal prisms Gear tray - steel, powder coated white
Weight	EBVRWO28AU - 1.9 kg VRWO28AU - 1.4kg
Warranty	1 year product warranty

Dimensions



Emergency power packs



T5 and T8

The latest range of Convertalite conversion kits deliver optimum performance for a diverse choice of fluorescent lamp types and wattages.

Convertalite packs simplify selection for T5 & T8 lamps, the same module being suitable for high frequency circuits.

Each module has 4 pole output switching plus an additional relay pole to isolate the switched live in emergency mode. Consequently, lock out of the ballast is prevented when it returns to mains mode.

Low profile modules combined with unique chamfered batteries and end caps, ease integration into shallow luminaires.

- Fast and easy conversion of fluorescent fittings to emergency luminaires
- Compatible with electronic ballasts
- Covers a diverse choice of lamps
- High temperature Ni-Cad batteries
- AS2293 Compliant



Design features

- A** Narrow low profile inverter case
- B** 5 pole relay to prevent electronic ballast lockout
- C** EMC compliant

Ordering information (T5 Power Packs 14, 21, 28, 35, 49 & 54W)

HC1AU	14-21 watt, T5 inverter & 4 cell (stick) battery pack
ZHD1-KIT	26-42W PLT inverter & 5 cell (stick) battery pack
ZHD2	28-35 watt, inverter only (5 cell)
ZHD2-KIT	28-35 watt, T5 inverter & 5 cell (stick) battery pack
ZHE1-KIT	49-54 watt, T5, inverter only & 6 cells (split pack) battery pack

Ordering information (T8 Power Packs to Suit 18,36 & 58W)

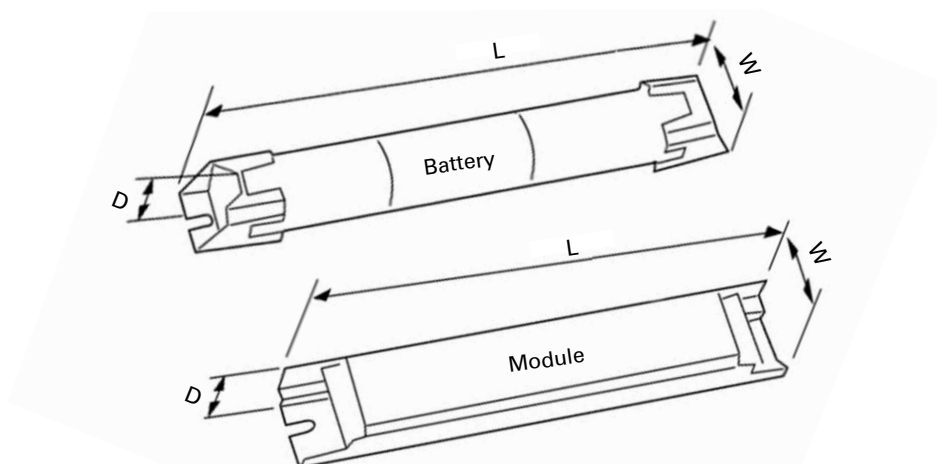
ZBQX2H	18W inverter only (3 cell)
ZCQX2H	18W, 36W & 58W inverter only (4 cell)
ZBQX-KIT	18W inverter & 3 cell (stick) battery pack
ZCQX-KIT	18, 36 & 58W inverter, 4 cell (stick) battery pack
ZCQX-KIT22	18, 36 & 58W inverter, 4 cell (split pack) battery pack

Technical data

Operation mode	Maintained & non maintained
Operation voltage	240V, 50Hz
Lamp detail	Kits to suit 14, 21, 28, 35, 49 & 54W T5 lamps and 18, 36 & 58W T8 fluorescent lamps 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006
Standard material	Module case - steel, white finish Battery end caps - polycarbonate Batteries - Ni-Cad
Warranty	1 year product warranty

Dimension	L (mm)	W (mm)	D (mm)	Fixing Centres
QX/HC/HD/HE	216	38	28.5	205
EH modules	216	38	36.5	205
2 cell battery pack & caps	160	33	33	150
3 cell battery pack & caps	220	33	33	210
4 cell battery pack & caps	280	33	33	270
5 cell battery pack & caps	340	33	33	330

Dimensions



Emergency inverter



110V central battery supply

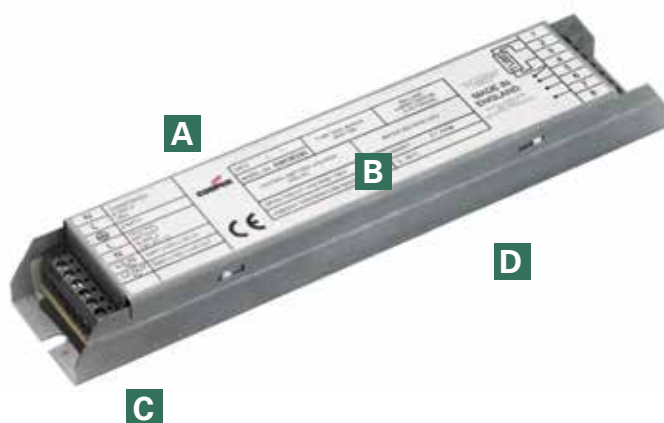
Central power systems utilising converted mains luminaires offer economical emergency lighting, with no additional luminaires to purchase and install.

Converted luminaires automatically change over to the central supply in the event of normal mains failure, operating one lamp at a reduced output.

SMCB110HF inverters suit a wide variety of T5, T8 & PL lamps.

Each module has 4 pole output switching plus an additional relay pole to isolate the switched live in emergency mode. Consequently, lock out of the ballast is prevented when it returns to mains mode.

- Monitors local unswitched mains supply
- Unobtrusive emergency lighting
- Simple single luminaire conversion
- Rapid conversion service available
- AS2293 Compliant



Design features

- A** Narrow low profile inverter case
- B** 5 pole relay to prevent electronic ballast lockout
- C** Suits all ballast types and models
- D** EMC compliant

Ordering information

SMCB110HF	Kits to suit 14, 21, 28, 35, 49 & 54W T5 lamps and 18, 36 & 58W T8 fluorescent lamps
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Lamp types

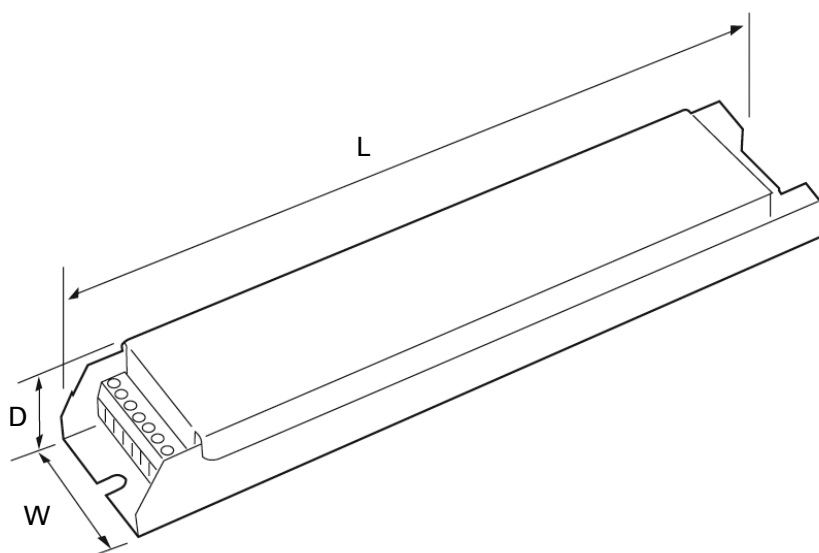
Lamp Type	110V	Lamp Type	110V
Compact Fluorescent		Linear Fluorescent	
16W 2D	YES	18WT8	YES
28W 2D	YES	36WT8	YES
38W 2D	YES	58WT8	YES
9W TC	YES	14-21WT5	YES
11W TC	YES	28-35W T5	YES
13W TC	YES	39-45W T5	YES
18W TC-D	YES	54-80W T5	YES
18W TC-L	YES		
24W TC-L	YES		
36W TC-L	YES		

Technical data

Operation mode	Maintained & non maintained
Sensing voltage	240V, 50Hz
Operating voltage	110V AC or DC
Lamp detail	Kits to suit 14, 21, 28, 35, 49 & 54W T5 lamps and 18, 36 & 58W T8 fluorescent lamps 2 hour emergency duration
Standard material	Module case - steel, silver finish
Warranty	1 year product warranty

Dimension	L (mm)	W (mm)	D (mm)	Fixing Centres
Module 110V	216	40	45	205

Dimensions



Emergency lighting test switches



Emergency lighting test switches

It is a mandatory legislative requirement that any building or structure that has an emergency evacuation lighting system installed be regularly inspected and maintained in accordance with the requirements of AS/NZS 2293.2

This standard sets out the periodic inspection and maintenance procedures which are necessary to ensure that the emergency evacuation lighting system will be in a state of readiness for operation at all times and this maintenance & inspection work shall only be carried out by persons with suitable qualifications and experience.

Unit discharge tests shall be carried out at six monthly intervals by simulating a mains failure. All luminaires and exit signs shall remain illuminated for the full duration of this discharge test. Any luminaire with a battery that cannot sustain illumination for the full duration of the test shall have this battery replaced and when fully charged retested.

- Manual testing of single point systems
- Enclosed option available
- DIN rail mount option available
- Manual or automatic reset
- Simulate supply failure to emergency luminaires in accordance with AS/NZS2293.2
- High quality European switchgear components



Technical data

Catalogue no.	Z-EMER-E	Z-EMER-DIN
Description	Emergency lighting test switch (enclosed)	Emergency lighting test switch (DIN mount)
Operation	Key switch operation	Rotary switch operation
Dimensions	160 x 160 x 90 (mm)	120 x 90 x 90 (mm)
Operating voltage	240V AC +/- 5%, 50Hz	
Cable entry	4mm ²	
Contactor	4 pole, 25A NC	
Time delay	Fully programmable	
Operating temperature	5° to 50°C	
IP rating	IP20	

Operation and visual indication



Standard operation

Green stable LED indicates timer is on stand-by and emergency luminaire is in charging mode.



Emergency lighting test operation

Green flashing LED indicates emergency lighting is under test.

Spare parts

Part No.	Description
BEN3AU, BEN3WAU	
PCB583GMN	Battery charger
BAT12SLA7	SLA battery 12V, 7Ah
BLMAU	
EPA601P	Charger / inverter
BAT3SLC	Battery pack (3 D-cell 4.0Ah)
CEBT218, CEBT136 & CEBT236	
ZBQX2H	18W Charger / inverter
ZCQX2H	36W Charger / inverter
BAT3SLC	Battery pack (3 D-cell 4.0Ah)
BAT4SLC	Battery pack (4 D-cell 4.0Ah)
BAT4SLC2	Battery pack (4 D-cell split pack 4.0Ah)
ZBQX-KIT	18W Charger / inverter and Battery pack (3 D-cell 4.0Ah)
ZCQX-KIT	36W Charger / inverter and Battery pack (4 D-cell 4.0Ah)
ZCQX-KIT22	36W Charger / inverter and Battery pack (4 D-cell split pack 4.0Ah)
CEWP118, CEWP218, CEWP136 & CEWP236	
ZBQX2H	18W Charger / inverter
ZCQX2H	36W Charger / inverter
BAT3SLC	Battery pack (3 D-cell 4.0Ah)
BAT4SLC	Battery pack (4 D-cell 4.0Ah)
BAT4SLC2	Battery pack (4 D-cell split pack 4.0Ah)
ZBQX-KIT	18W Charger / inverter and Battery pack (3 D-cell 4.0Ah)
ZCQX-KIT	36W Charger / inverter and Battery pack (4 D-cell 4.0Ah)
ZCQX-KIT22	36W Charger / inverter and Battery pack (4 D-cell split pack 4.0Ah)
DRG28M & DRG28NM	
C1192	Charger / inverter / ballast
BAT4SLC2	Battery pack (4 D-cell split pack 4.0Ah)
EBVRWO28AU (Vienza)	
C1192	Charger / inverter / ballast
BAT4SLC2	Battery pack (4 D-cell split pack 4.0Ah)
EXM-LED-CM & EXM-LED-WM (Exlite LED)	
B5-0008	Battery pack
KLED & KLM-LED-P (Kwiklite)	
EPA605	Charger / inverter
EPA606	LED strip
B5-0004	Battery pack to suit KLED
BAT4SLSC	Battery pack to suit KLM-LED-P

Part No.	Description
KL8M, KLM-MK2 & KLMAU	
EPA601P	Charger / inverter
BAT2SP3	Battery pack
LEX-218S (Jumbo)	
ZBQX2H	8W charger / inverter
BAT3SLC	Battery pack
NSLEDAU (Safe Edge)	
EPA605	Charger / inverter
EPA606	LED strip
BAT4SLSC	Battery pack
RELM-LED (GloLine)	
EPA605	Charger / inverter
EPA606	LED strip
BAT4SLSC	Battery pack
UFO SERIES	
BAT5SP14H	Battery pack to suit UFO-SP and UFO-SM-MK2 (1x10W halogen)
B5-0008	Battery pack to suit UFO-LED and UFO-LED-SM (3W LED)
VSMAU (Vistral)	
EPA601P	Charger / inverter
BAT2SP3	Battery pack
UXM-LED	
EPA605	Charger / inverter
EPA606	LED strip
BAT4SPSC9	Battery pack
WLMAU (Weatherlite)	
EPA601P	Charger / inverter
BAT2SP3	Battery pack
ZCC4	
BAT6SLA12	SLA battery 6V, 12Ah

Classifications

Catalogue No.	C0	C90	C180	Luminance	Photometric	Thermal
CEBT218 + CDP218	D16	C25	D32		LL12175	LL08221003T
CEBT136 + CDP136	D50	C32	NA		LL12097	LL0817905T
CEBT236 + CDP236	D32	C50	D63		LL12178	LL0822104T
CEBT218 + CWG218	D25	C32	D32		LL12176	LL08221003T
CEBT136 + CWG136	D50	D16	NA		LL12098	LL0817905T
CEBT236 + CWG236	D50	D20	D63		LL12179	LL0822104T
V SMAU	E16	C16	NA		LL16372	LL13-070-01T
BLMAU	D25	C25	NA		LL16657	LL1315003T
BEN1AU	NA	NA			NA	LSA0536105T
KLED	D5	E12.5	NA		LL14882	LL1104003T
KL8M	C8	E6.3	NA		LL14881-R01	LL1104001T-R01
UFO-LED and UFO-LED-SM	D40	D40	NA		LL16725-R01	LL1318501T
HL8NAU	C63	D25			LL12259	LL0825904T
BEN3AU	NA	NA			LL15357A	LSA0536105T
BWRM	C10	B6.3			LL12256	LL0824604T
DRG28M	D25	D25	D25		LSA10398	LSA0622801T
KLMAU	NA	NA			LAA990530	LAA990104T
KLS	NA	NA		LAA990630D	NA	LAA990104T
KLM-LED	NA	NA		LL12757	NA	LL0905102T
KLM-LED-P	NA	NA		LSA12654	NA	LL0905102T
KLM-MK2	NA	NA		LSA10316	NA	LSA0617504T
LEX-218S	D6.3	E3.2	E1.6	LL12863	LL2864	LL0914102T
MPM	B8	B8	NA		LL12257	LL08254603
NSLEDAU	E2.5	B25		LL13933	LL13934	LL1017602T
RELM-LED	D2.5	E10		LL13927, LL13928	LL13931	LL1017605T
SN8-3-NMM	D10	C20			LSA9119	LSA0511906T
UFO-SP	D16	D16	NA		LL12662	LAA001801T
UFO-SM-MK2	D16	D16	NA		LL12662	LL0907204T
UXM-LED (EXIT)	NA	NA		LL13616	NA	LL1010604T
UXM-LED (Pictograph exit)	NA	NA		LL13614	NA	LL1010604T
EBVRWO28AU	D25	D25	D25		LL10709	LL0633902T
WLMAU (Pictograph exit)	NA	NA		LSA10411	NA	LSA0621304T
ZCC4	NA	NA	NA		LL11247	LL0719005T
CEWP118	D32	C25	NA		LL16377	LL1307004T
CEWP218	D20	C25	D25		LL16376	LL1307005T

Catalogue No.	C0	C90	C180	Luminance	Photometric	Thermal
CEWP128	D32	C25	NA		LL17719	LL1414701T
CEWP228	D32	C40	D40		LL17720	LL1414702T
CEWP136	D40	C32	NA		LL16421	LL13-081-03T
CEWP236	D32	C40	D40		LL16484	LL1309803T
CEBT218	D32	C32	D32		LL2177	LL08221003T
CEBT136	D50	D16	NA		LL12099	LL0817905T
CEBT236	D63	D20	D63		LL122180	LL0822104T
EXM-LED-CM	D6.3	D6.3	NA	LL17637	LL17649	LL1412206T
EXM-LED-WM	E2.5	E2.5	C2	LL17636	LL17648B	LL1412206T
EXM-LED-WM (ceiling mount no pictograph)	D10	D8	NA		LL17688	LL1412206T

Spacing tables

A SERIES Luminaire spacing

	A1	A1.25	A1.6	A2	A2.5	A3.2	A4	A5	A6.3	A8	A10	A12.5	A16	A20	A25	A32	A40	A50	A63
2.1	2.2	2.5	2.8	3.1	3.4	3.7	3.9	4.2	4.5	4.8	5.0	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4
2.4	2.0	2.4	2.8	3.1	3.5	3.8	4.1	4.4	4.8	5.1	5.4	5.7	6.0	6.4	6.7	7.0	7.4	7.7	8.1
2.7	1.7	2.2	2.7	3.1	3.5	3.9	4.3	4.6	5.0	5.4	5.7	6.0	6.4	6.8	7.1	7.5	7.9	8.3	8.7
3.0	1.0	1.9	2.5	3.0	3.5	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.0	8.4	8.8	9.2
3.3		1.3	2.2	2.9	3.4	4.0	4.4	4.9	5.3	5.8	6.2	6.6	7.1	7.5	7.9	8.4	8.9	9.3	9.8
3.6			1.8	2.6	3.3	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.8	8.3	8.8	9.3	9.8	10.3
4.0				2.1	3.0	3.7	4.4	5.0	5.5	6.1	6.6	7.2	7.7	8.2	8.7	9.3	9.8	10.3	10.9
4.5					2.2	3.4	4.2	4.9	5.6	6.2	6.8	7.4	8.1	8.7	9.2	9.9	10.4	11.0	11.6
5.0						2.7	3.8	4.7	5.5	6.3	7.0	7.6	8.4	9.0	9.6	10.4	11.0	11.6	12.3
6.0							2.1	3.8	5.0	6.1	7.0	7.8	8.7	9.5	10.3	11.2	11.9	12.7	13.5
7.0								1.1	3.8	5.4	6.7	7.8	8.9	9.8	10.8	11.8	12.7	13.6	14.5
8.0										4.1	5.9	7.3	8.8	9.9	11.0	12.2	13.3	14.3	15.4
9.0											4.5	6.5	8.3	9.8	11.1	12.5	13.7	14.9	16.1
10												5.1	7.6	9.4	10.9	12.6	13.9	15.3	16.6
15															5.2	9.5	12.7	15.2	17.5
20																		10.3	14.9

Spacing tables

B SERIES

Luminaire spacing

	B1	1.25	B1.6	B2	B2.5	B3.2	B4	B5	B6.3	B8	B10	12.5	B16	B20	B25	B32	B40	B50	B63
2.1	2.4	2.7	3.1	3.4	3.7	4.1	4.4	4.7	5.0	5.4	5.7	6.0	6.4	6.7	7.1	7.5	7.8	8.2	8.6
2.4	2.2	2.6	3.1	3.4	3.8	4.2	4.6	4.9	5.3	5.7	6.1	6.4	6.8	7.2	7.6	8.1	8.5	8.9	9.3
2.7	1.8	2.4	3.0	3.4	3.8	4.3	4.7	5.1	5.5	6.0	6.4	6.8	7.2	7.7	8.1	8.6	9.0	9.5	10.0
3.0	1.1	2.0	2.8	3.3	3.8	4.4	4.8	5.3	5.7	6.2	6.7	7.1	7.6	8.1	8.5	9.1	9.6	10.1	10.6
3.3		1.4	2.4	3.1	3.7	4.3	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	9.0	9.5	10.1	10.6	11.2
3.6			1.9	2.8	3.6	4.3	4.9	5.4	6.0	6.6	7.1	7.6	8.2	8.8	9.3	10.0	10.5	11.1	11.7
4.0				2.2	3.2	4.1	4.8	5.4	6.1	6.7	7.3	7.9	8.6	9.2	9.8	10.5	11.1	11.7	12.4
4.5					2.4	3.7	4.5	5.3	6.1	6.9	7.5	8.2	9.0	9.6	10.3	11.1	11.7	12.4	13.2
5.0						2.9	4.1	5.1	6.0	6.9	7.7	8.4	9.3	10.0	10.7	11.6	12.3	13.1	13.9
6.0							2.3	4.1	5.4	6.6	7.6	8.6	9.6	10.5	11.4	12.4	13.3	14.2	15.2
7.0								1.2	4.1	5.9	7.3	8.5	9.7	10.8	11.9	13.1	14.1	15.1	16.2
8.0										4.4	6.4	8.0	9.6	10.9	12.1	13.5	14.7	15.9	17.1
9.0											4.9	7.1	9.1	10.7	12.2	13.7	15.1	16.4	17.8
10												5.6	8.2	10.2	12.0	13.8	15.3	16.9	18.4
15															5.7	10.6	13.8	16.6	19.2
20																		11.1	16.2

C SERIES

Luminaire spacing

	C1	C1.25	C1.6	C2	C2.5	C3.2	C4	C5	C6.3	C8	C10	C12.5	C16	C20	C25	C32	C40	C50	C63
2.1	2.8	3.2	3.7	4.1	4.5	5.0	5.4	5.9	6.3	6.8	7.3	7.8	8.3	8.9	9.4	10.0	10.6	11.3	11.9
2.4	2.5	3.1	3.6	4.1	4.6	5.1	5.6	6.1	6.6	7.2	7.7	8.2	8.8	9.4	10.0	10.7	11.3	12.0	12.8
2.7	2.1	2.8	3.5	4.1	4.6	5.2	5.7	6.3	6.8	7.4	8.0	8.6	9.3	9.9	10.5	11.3	12.0	12.7	13.5
3.0	1.3	2.4	3.2	3.9	4.5	5.2	5.8	6.4	7.0	7.7	8.3	8.9	9.7	10.3	11.0	11.8	12.6	13.4	14.2
3.3		1.7	2.9	3.7	4.4	5.2	5.8	6.5	7.2	7.9	8.6	9.2	10.0	10.7	11.5	12.3	13.1	14.0	14.9
3.6			2.3	3.3	4.2	5.1	5.8	6.5	7.3	8.0	8.8	9.5	10.3	11.1	11.9	12.8	13.6	14.5	15.5
4.0				2.6	3.7	4.8	5.7	6.5	7.3	8.2	9.0	9.8	10.7	11.5	12.4	13.4	14.3	15.2	16.2
4.5					2.8	4.3	5.3	6.3	7.3	8.3	9.1	10.0	11.0	12.0	12.9	14.0	15.0	16.0	17.1
5.0						3.4	4.8	6.0	7.1	8.2	9.2	10.2	11.3	12.3	13.4	14.5	15.6	16.7	17.9
6.0							2.6	4.8	6.4	7.8	9.1	10.3	11.6	12.8	14.0	15.4	16.6	17.9	19.2
7.0								1.3	4.8	6.9	8.6	10.1	11.6	13.0	14.4	16.0	17.4	18.8	20.3
8.0										5.2	7.5	9.4	11.3	13.0	14.6	16.4	17.9	19.6	21.2
9.0											5.6	8.3	10.7	12.7	14.5	16.5	18.3	20.1	22.0
10												6.5	9.6	12.0	14.2	16.5	18.5	20.4	22.5
15															6.6	12.3	16.2	19.6	22.9
20																		12.9	18.9

D SERIES

Luminaire spacing

	D1	D1.25	D1.6	D2	D2.5	D3.2	D4	D5	D6.3	D8	D10	D12.5	D16	D20	D25	D32	D40	D50	D63	D80	D125	D160
2.1	3.4	4.0	4.6	5.2	5.8	6.5	7.2	7.8	8.6	9.4	10.2	11.1	12.1	13.1	14.2	15.4	16.7	18.0	19.4	21.1	24.5	26.6
2.4	3.1	3.8	4.5	5.2	5.8	6.6	7.3	8.0	8.8	9.7	10.6	11.5	12.6	13.6	14.7	16.1	17.4	18.7	20.3	22.0	25.6	27.8
2.7	2.5	3.4	4.3	5.0	5.7	6.6	7.3	8.1	9.0	9.9	10.9	11.8	13.0	14.1	15.3	16.7	18.0	19.4	21.1	22.8	27.5	28.9
3.0	1.6	2.9	3.9	4.8	5.6	6.5	7.3	8.2	9.1	10.1	11.1	12.1	13.3	14.5	15.7	17.2	18.6	20.1	21.8	23.6	28.3	29.9
3.3		2.0	3.4	4.4	5.4	6.4	7.3	8.2	9.2	10.2	11.3	12.4	13.6	14.8	16.1	17.6	19.1	20.7	22.4	24.3	29.1	30.8
3.6			2.7	4.0	5.1	6.2	7.2	8.2	9.2	10.3	11.4	12.5	13.9	15.1	16.5	18.0	19.6	21.2	23.0	25.0	30.1	31.7
4.0				3.1	4.5	5.8	6.9	8.0	9.2	10.4	11.5	12.7	14.1	15.5	16.9	18.5	20.1	21.8	23.7	25.8	31.2	32.8
4.5					3.4	5.1	6.5	7.7	9.0	10.3	11.6	12.9	14.4	15.8	17.3	19.1	20.8	22.5	24.5	26.7	32.2	34.0
5.0						4.1	5.8	7.3	8.7	10.2	11.6	13.0	14.6	16.1	17.7	19.5	21.3	23.2	25.2	27.5	34.0	35.1
6.0							3.1	5.7	7.7	9.5	11.2	12.8	14.6	16.4	18.1	20.2	22.1	24.2	26.4	28.9	35.5	37.1
7.0								1.6	5.7	8.3	10.3	12.3	14.4	16.3	18.3	20.6	22.7	24.9	27.4	30.0	36.7	38.8
8.0										6.1	8.9	11.3	13.8	16.0	18.2	20.7	23.0	25.4	28.1	30.9	37.8	40.24
9.0											6.7	9.9	12.9	15.4	17.9	20.6	23.1	25.7	28.6	31.6	38.6	41.5
10												7.6	11.5	14.5	17.3	20.3	23.1	25.9	28.9	32.1	40.8	42.5
15															7.7	14.6	19.4	23.7	28.0	32.4	40.0	45.7
20																		15.2	22.5	28.9	-	46.1

E SERIES

Luminaire spacing

	E1	E1.25	E1.6	E2	E2.5	E3.2	E4	E5	E6.3	E8	E10	E12.5	E16	E20	E25	E32	E40	E50	E63
2.1	3.8	4.2	4.8	5.2	5.6	6.0	6.2	6.6	7.0	7.4	7.8	8.0	8.4	8.8	9.0	9.4	9.6	9.8	10.0
2.4	3.6	4.2	4.8	5.2	5.8	6.2	6.6	7.2	7.6	8.0	8.4	8.8	9.2	9.6	10.0	10.2	10.6	11.0	11.2
2.7	3.2	4.0	4.8	5.4	5.8	6.4	7.0	7.4	8.0	8.4	9.0	9.4	9.8	10.4	10.8	11.2	11.6	12.0	12.2
3.0	3.6	3.6	4.4	5.2	6.0	6.6	7.2	7.8	8.4	9.0	9.4	10.0	10.6	11.0	11.4	12.0	12.4	12.8	13.2
3.3		4.0	4.0	5.0	5.8	6.6	7.4	8.0	8.6	9.2	9.8	10.4	11.0	11.6	12.2	12.8	13.2	13.8	14.2
3.6		3.0	4.2	4.6	5.8	6.6	7.4	8.2	8.8	9.6	10.2	11.0	11.6	12.2	12.8	13.4	14.0	14.6	15.0
4.0			3.8	4.8	5.2	6.6	7.4	8.4	9.2	10.0	10.8	11.4	12.2	13.0	13.6	14.4	15.0	15.6	16.2
4.5				4.0	5.2	5.8	7.2	8.4	9.4	10.2	11.2	12.0	12.8	13.6	14.4	15.4	16.0	16.8	17.6
5.0					4.6	5.8	6.6	8.2	9.4	10.4	11.4	12.4	13.4	14.4	15.2	16.2	17.0	17.8	18.8
6.0							7.0	7.0	8.8	10.4	11.8	13.0	14.4	15.4	16.6	17.8	18.8	19.8	20.8
7.0								6.8	8.2	9.4	11.6	13.2	14.8	16.2	17.4	19.0	20.2	21.4	22.6
8.0									7.0	9.4	10.2	12.8	14.8	16.6	18.2	19.8	21.4	22.8	24.2
9.0										8.0	10.4	11.4	14.4	16.6	18.6	20.4	22.2	23.8	25.6
10											9.2	11.6	13.2	16.2	18.6	20.8	22.8	24.8	26.6
15														15	17.4	17.4	22.0	26.0	29.4
20																20	18.4	23.2	25.8

This image shows a full page of blank, lined paper. It features approximately 30 evenly spaced horizontal grey lines running across the width of the page, typical of notebook or composition paper. The lines are uniform in thickness and spacing, providing a guide for handwriting. There are no margins, text, or other markings present on the page.

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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Terms and conditions of sale

General

NOTE 1: These Terms and Conditions of Sale shall apply to all sales of equipment and services by Cooper Electrical Australia Pty Ltd as used herein, "seller", "we" and "our" shall refer to Cooper Electrical Australia Pty Ltd.

Acceptance of Orders

NOTE 2: All quotations and tenders, and the acceptance of all contracts and orders, are subject to final approval by the home office of Cooper Electrical Australia Pty Ltd at Sydney, NSW, Australia. Prices, cash discounts and terms are subject to change without notice.

NOTE 3: Cooper Electrical Australia Pty Ltd will accept orders and bill in accordance with published prices in Cooper Electrical Australia Pty Ltd current price list and terms found therein, even though incorrect prices and terms may appear on the purchaser's order.

Terms of Payment

NOTE 4: Payments to be in Australian Dollars in Sydney, NSW, Australia upon credit terms established by Cooper Electrical Australia Pty Ltd.

Your account terms are net 30 days from end of month.

Cooper Electrical Australia Pty Ltd at its sole written option may accept payment by means of deposit to an account in a country and in a foreign currency at an exchange rate designated by Cooper Electrical Australia Pty Ltd.

Important Price Information

NOTE 5:

(a) List prices and discounts are subject to change without notice. All prices are subject to change without notice. All prices are quoted in Australian dollars unless otherwise stated.

(b) Billing Price: Orders except "hold for release" orders and "deferred orders" will be billed at the price in effect on the date of receipt of the order or the date of shipment, whichever is lower. "Hold for release" orders will be billed at the price in effect on the date of release. "Deferred orders" will be billed at the price in effect on date of shipment.

(c) A restocking fee of 15% may be applied to all stock accepted for return by the seller. Goods for return must follow the seller's Goods Return Policy and Procedures.

(d) Return of custom-made product is not acceptable.

(e) Tax: Prices shown in the Cooper Electrical Australia Pty Ltd price list do not include tax. If tax were applicable this would be chargeable at the rate ruling as at the shipment date.

(f) Lamps: Lighting fixture prices do not include lamps unless specified in quote.

(g) Claims for billing errors on invoices must be made to Cooper Electrical Australia Pty Ltd within seven (7) days from the date of the invoice.

Taxes

NOTE 6: Cooper Electrical Australia Pty Ltd reserves the right to add to the price of its products at any time an amount equivalent to any duties, imposts, revenues, sales use, manufacturer's payroll, excise or other taxes which may be imposed and made applicable to their product.

Delivery

NOTE 7:

(a) Cooper Electrical Australia Pty Ltd will use its own discretion in routing all shipments upon which it assumes transportation charges. Where practical to do so, shipments will be made in any manner requested by the customer, if the customer will assume the extra transportation costs.

(b) Export orders will be supplied ex works Australia unless otherwise specified.

(c) Cooper Electrical Australia Pty Ltd shall not be liable for failure to deliver or delays in delivery occasioned by causes beyond its control, including but not limited to, strikes, lockouts or other industrial disturbances, inability to obtain materials, breakdowns, delays of carriers or suppliers, governmental acts and regulations, acts of public enemies, wars, blockages, insurrections, riots, earthquakes, fires, storms, floods, washouts, and explosions.

Shipping Charges

NOTE 8: All C.I.F. charges (freight, insurance, forwarding taxes, etc) are in addition to costs of material and will be billed as separate items.

Packing

NOTE 9: All orders will be shipped based upon Cooper Electrical Australia Pty Ltd standard packing. Any customer specific, or unusual packaging requirements will be quoted and charged accordingly.

Government Restrictions

NOTE 10: The acceptance, processing and fulfilment of orders will be subject to and contingent upon restrictions and conditions imposed by the governments having jurisdiction over points of manufacture or passage of the merchandise.

Partial Shipment

NOTE 11: Export orders will be shipped as complete orders unless specific instructions are received from the customer authorising partial shipments and accepting any additional transportation or packing charges resulting from partial shipment.

Minimum Order Value - \$100.00

NOTE 12: applies to all orders. Any order less than \$100.00 may incur a penalty charge of up to \$100.00 plus handling and transportation charges.

Limited Warranty

NOTE 13: Products of Cooper Electrical Australia Pty Ltd manufacture are warranted against mechanical, electrical and physical defects for a period of one year from the date of shipment from the factory,

if they have been properly used, and are warranted to be merchantable and fit for the ordinary purpose for which such products are used. There are no express warranties or warranties of fitness for any particular purpose, or any implied warranties, other than those made expressly herein, all such warranties being expressly disclaimed. The obligation of Cooper Electrical under this warranty of merchantability and fitness for the ordinary purpose for which the products are used, and all other warranties are limited to the furnishing of new parts free of charge in exchange for parts which have proven defective and does not include any other costs such as the cost of removal of defective part, installation, labour or consequential damages of any kind, the exclusive remedy being to require such new parts to be furnished. Cooper Electrical Australia Pty Ltd assumes no responsibility for proper selection and installation to its products.

Claims for Shortages

NOTE 14: No claims for shortages of material will be recognised by Cooper Electrical Australia Pty Ltd unless such alleged shortage is reported to Cooper Electrical Australia Pty Ltd within 48 hours from receipt of shipment at destination.

Claims for Damage or Loss in Transportation

NOTE 15: Risk of loss of goods passes to the Purchaser on delivery to the common carrier at Cooper Electrical Australia Pty Ltd point of shipment with delivery to the common carrier constituting delivery to the Purchaser, the Consignee should file with the appropriate carrier, any claims for loss or damage in transit.

Disputes

NOTE 16: Any dispute arising under these terms shall at the written request of either party delivered to the other party not less than twenty days in advance of the date of such submittal, be settled by arbitration. The site of such arbitration, unless the parties agree otherwise, shall be in the city of Sydney, NSW, Australia. This agreement shall be enforceable and judgement upon any award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof. These Terms and Conditions shall be construed and interpreted according to the laws of the State of New South Wales, Australia.

Product Description

NOTE 17: The product information published in our catalogues and literature is not guaranteed. It has been compiled with care and is sufficiently accurate for most purposes. It is subject to change without notice. Occasionally, it may be necessary to modify the materials, finishes or other components of the product. These changes in no way reduce the performance or function for which the product is intended.

Product Liability Limitation

NOTE 18: All statements technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof is not guaranteed. In accordance with Cooper Electrical Australia Pty Ltd "Terms and Conditions of Sale" and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability in connection therein.

Retention of Title

NOTE 19: The ownership of the products supplied does not pass to the purchaser until the purchaser has discharged all outstanding indebtedness (whether in respect of the products supplied or otherwise) to the seller whatsoever or until such time as the purchaser sells the products to its customers in the ordinary course of business. Until payment in full of such indebtedness has been made, the buyer acknowledges and agrees that:

(a) The products supplied are held by the purchaser in a fiduciary capacity as bailee to be sold by it as agent for and on behalf of the seller.

(b) The purchaser shall if directed by the seller store the products supplied marked in such a way that it is clear that they are the property of the seller but all cost of storage (whether or not the storage is at the direction of the seller) shall be to the account of the purchaser.

(c) If the products supplied or part thereof have been sold by the purchaser to its customers prior to payment in full of the outstanding indebtedness of the buyer, then the debts of the purchaser arising from such on-sales, shall be the property of the seller and shall be held on a fiduciary basis separately for its account and not mixed with the purchaser's other moneys, debts or property and payable immediately without demand. The seller has the right to trace the proceeds of any such sales in accordance with the equitable principles.

****Please refer to Cooper Electrical Australia for full terms and conditions of sale****

Eaton's electrical business is a global leader with expertise in power distribution and circuit protection; backup power protection; control and automation; lighting and security; structural solutions and wiring devices; solutions for harsh and hazardous environments; and engineering services. Eaton is positioned through its global solutions to answer today's most critical electrical power management challenges.

Eaton is a power management company with 2013 sales of \$22.0 billion. Eaton provides energy-efficient solutions that help our customers effectively manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. Eaton has approximately 103,000 employees and sells products to customers in more than 175 countries.

For more information, visit www.eaton.com

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