

Eterna CF16 / CF28 Range

This luminaire is compatible with bulbs of the energy classes:

This luminaire is sold with a bulb of the energy class: **A**

874/2012

LAMP SPECIFICATIONS:	CF16	CF28
Nominal Wattage	16W	28W
Rated Wattage	16W	28W
Average lifetime hours	10,000 hrs	10,000 hrs
Nominal useful luminous flux	1100 lm	2050 lm
Rated luminous flux	1100 lm	2050 lm
Luminous efficacy (lm/W) in 50Hz operation	68	73
Rated lamp Lumen maintenance	2000hrs: ≥85% 4000 hrs: ≥78% 6000 hrs: ≥76% 8000 hrs: ≥75%	2000hrs: ≥85% 4000 hrs: ≥78% 6000 hrs: ≥76% 8000 hrs: ≥75%
Rated survival factors	2000hrs: ≥98% 4000 hrs: ≥90% 6000 hrs: ≥88% 8000 hrs: ≥80%	2000hrs: ≥98% 4000 hrs: ≥90% 6000 hrs: ≥88% 8000 hrs: ≥80%
Lamp dimensions (H/W/D)	136x133x26mm	200x200x32mm
Cap type	GR10q 4 Pin	GR10q 4 Pin
Lamp Mercury content to an accuracy of 0.1mg	≤3.5mg	≤3.5mg
Colour rendering index Ra	≥80	≥80
Colour temperature	3500K	3500K
Ambient temperature required to achieve maximum luminous flux	25°C	25°C
Dimmable	No	No
Ballast EEL	A2	A2



Issue 2014



FOR PRODUCT ADVICE:

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Visit our website:

www.eterna-lighting.co.uk



INSTALLATION INSTRUCTIONS

A guide for qualified electricians



Pack contents:

1 x Polycarbonate bulkhead fitting with standard gear tray
1 x GR10q 4 Pin 16W or 28W fluorescent lamp

Model:
CF16MS / CF16CR / CF16WH
CF28MS / CF28CR / CF28WH

16/28W Decorative Ceiling/Wall Fitting

These instructions are provided as a guideline to assist you.

PLEASE READ THESE INSTRUCTIONS BEFORE USING YOUR NEW FITTING
PLEASE RETAIN FOR FUTURE REFERENCE

READ THIS FIRST:

Check the pack and make sure you have all of the parts listed on the front of this booklet. If not, contact the outlet where you bought this product.

This product contains glass, care must be taken when assembling, fitting or handling to prevent personal injury or damage to the product.

This product must be installed by a competent person in accordance with the current building and IEE wiring regulations.

As the buyer, installer and/or user of this product it is your own responsibility to ensure that this fitting is fit for the purpose for which you have intended it. Eterna Lighting cannot accept any liability for loss, damage or premature failure resulting from inappropriate use.

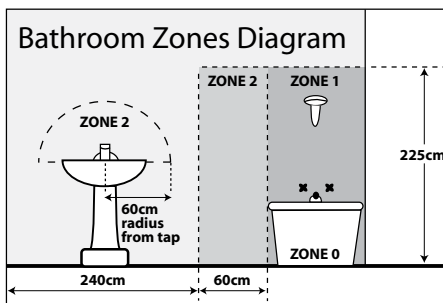
This product is designed and constructed according to the principles of the appropriate British Standard and is intended for normal domestic service. Using this fitting in any other environments may result in a shortened working life, for example where there is prolonged periods of use or higher than normal ambient temperatures such as lighting public or shared spaces or in nursing /care home facilities.

Switch off the mains before commencing installation and remove the appropriate circuit fuse or lock off MCB.

The lamp supplied with this fitting is a consumable part and therefore may be outside of any warranty offered.

This unit is suitable for indoor and outdoor use.

This product is suitable for use in living areas, and Bathroom Zone 2 and outdoors of zones. If being fitted in a bathroom a 30mA RCD must be used.



This product is designed for permanent connection to fixed wiring: this must be a suitable circuit (protected with the appropriate MCB or fuse).

This product is suitable for installation on surfaces with normal flammability e.g. wood, plasterboard and masonry. It is not suitable for use on highly flammable surfaces (e.g. polystyrene, textiles).

Before making fixing hole(s), check that there are no obstructions hidden beneath the mounting surface such as pipes or cables.

When choosing the location for your new fitting, give consideration to the ease and frequency of lamp changes. The fitting should not be installed in a position where it will be difficult to reach.

When choosing the location for your new fitting, ensure that the fixings will be anchored in a solid surface e.g. concrete, brick or a joist—do not fix directly onto panelling, cladding, plasterboard etc.

Do not attach to surfaces which are damp, freshly painted or otherwise electrically conductive (e.g. metallic surfaces).

When making connections ensure that the terminals are tightened securely and that no strands of wire protrude. Check that the terminals are tightened onto the bared conductors and not onto any insulation.

This product must be connected to earth termination.

You are advised at every stage of your installation to double-check any electrical connections you have made. After you have completed your installation there are electrical tests that should be carried out, these tests are specified in the current IEE wiring and building regulations.

NOTE: Very frequent switching can shorten the life of the lamp. If lighting controls are used with this product (e.g. PIR or microwave sensor) then to minimise this, it is recommended to adjust the time to the maximum setting.

EVENTUALLY, YOU MAY WANT TO REPLACE THIS PRODUCT:

Regulations require the recycling of Waste from Electrical and Electronic Equipment (European "WEEE Directive" effective August 2005—UK WEEE Regulations effective 2nd January 2007). Environment Agency Registered Producer: WEE/GA0248QZ.

WHEN YOUR PRODUCT COMES TO THE END OF ITS LIFE OR YOU CHOOSE TO REPLACE IT, PLEASE RECYCLE IT WHERE FACILITIES EXIST - DO NOT DISPOSE WITH HOUSEHOLD WASTE.

IF YOU EXPERIENCE PROBLEMS:

If you believe your product is defective, please return it to the place where you bought it. Our Technical Team will gladly advise on any Eterna Lighting product, but may not be able to give specific instructions regarding individual installations.

For breakage information visit:
www.eterna-lighting.co.uk

INSTALLATION:

Choose the location for your new fitting according to the conditions listed opposite.

01. Hold the base of the fitting and gently turn the diffuser and decorative trim anti-clockwise and lift off.
02. Remove the fluorescent lamp.
03. Loosen the three screws retaining the gear tray, slide free from fixings, lift out and let the gear tray hang on the retaining strap.
04. Drill holes in the back of your fitting for your fixing screws. Use a drill bit sized appropriately to your fixing screws (not supplied).
05. Using the back of your fitting as a template, mark the position of your fixing holes on your mounting surface.
06. Prepare the holes in your mounting surface as appropriate for your fixings.
07. Pierce the rubber grommet in the back of your fitting making a hole just large enough to make a tight fit around the incoming mains cable.
08. Thread the cable through the grommet and offer the fitting to the wall/ceiling.
09. Secure the fitting in place. Note, if protection against ingress of moisture is required, the heads of screws must be covered with a silicone or similar sealant.
10. Check that the grommet is still correctly fitted in the cable entry hole and around the incoming cable.
11. Make the electrical connections to the gear tray according to the colour codes below:

Live:	Brown
Neutral:	Blue
Earth:	Green and Yellow
12. Offer the gear tray into position locating on the three screws, slide into place and tighten the three retaining screws.
13. Fit the lamp pressing into position until the lamp has clicked into place and it is held securely.
14. Offer the diffuser and decorative trim onto the top of the fitting and turn clockwise until they are held securely.
15. Restore the power and switch on.

CLEANING:

Clean this product only with a soft dry cloth.

The shade(s) may be removed and washed in a mild detergent solution. Make sure the shade is completely dry before putting back on your light fitting.

Do not use any chemical or abrasive cleaners.

LAMP REPLACEMENT:

01. Switch off the electricity at the mains.
02. Turn the diffuser anti-clockwise and lift off.
03. Pull the lamp straight out of the fitting and press a new one back into position ensuring that it is retained securely.
04. Replace the diffuser and turn clockwise so that it is retained securely.
05. Restore the power and switch on.

REPLACEMENT LAMP TYPE:

16W requires 1 x 16W GR10q 4 pin DD CFL (included). Fitting is rated at 16W max.

Replacement lamp available from Eterna: DD16435.

28W requires 1 x 28W GR10q 4 pin DD CFL (included). Fitting is rated at 28W max.

Replacement lamp available from Eterna: DD28435.

SPECIFICATIONS:

• Wattage:	28W
• Size / Type:	GR10q 4pin DD CFL
• Mode:	Maintained (switched non-maintained)
• Duration:	3 hours
• Emergency mode light output:	94 Lumens (in 28W Eterna CF28 Range)
• Supply Voltage:	240V
• Frequency:	50/60 Hz
• Supply current:	230mA max.
• Tc:	70°C
• Ta:	10° - 50°C
• Battery info:	3.6V 4.5 Ah NiCd side-by-side
• BLF:	0.72
• EBLF:	0.08

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INDUSTRIAL BATTERIES:

Within certain products Eterna Lighting Ltd places lead acid, lithium ion, nickel cadmium & nickel metal hydride batteries on the market. Industrial batteries are subject to waste regulation under the Waste Batteries and Accumulators Regulations 2009 and should be disposed of responsibly. Purchasers may be able to dispose of their waste industrial batteries locally via legitimate licensed trade waste contractors. Eterna is obliged to take back, free of charge and within a reasonable time, waste industrial batteries of the same chemistry supplied to a Purchaser, for treatment and recycling and is required to do this in any calendar year new industrial batteries are placed on the market. In certain circumstances, this may include batteries not originally supplied by Eterna. If any Purchaser requires Eterna to take back Industrial batteries, they should write to the Operations Director, Eterna Lighting Ltd, Huxley Close, NN8 6AB, who will then advise on the necessary arrangements for the receipt, proper treatment and recycling of, the waste industrial batteries.

CLEANING:

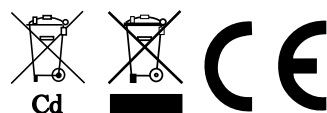
Clean this fitting only with a soft dry cloth.

Do not use any chemical or abrasive cleaners.

IF YOU EXPERIENCE PROBLEMS:

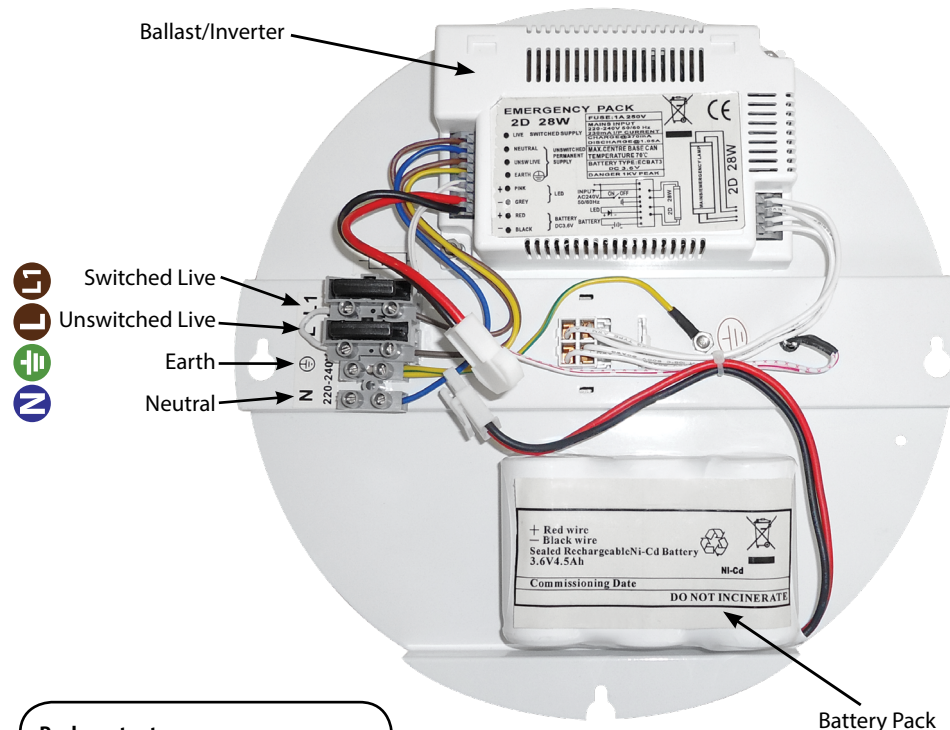
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INSTALLATION INSTRUCTIONS

A guide for qualified electricians



Pack contents:

- 1 x Ballast/inverter emergency gear tray
- 1 x Maintenance check record

Model:
GTEM328

Emergency Gear Tray for 28W Ceiling Range

These instructions are provided as a guideline to assist you.

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Email: sales@eterna-lighting.co.uk / technical@eterna-lighting.co.uk

Visit our website: www.eterna-lighting.co.uk

Made in China

Issue 0516

READ THIS FIRST:

THIS INSTRUCTION LEAFLET SHOULD BE READ IN CONJUNCTION WITH THE USER INSTRUCTIONS FOR THE FITTING INTO WHICH YOU ARE INSTALLING THE GEAR TRAY

This emergency control gear must be installed by a competent person.

This emergency control gear has been designed for installation into the Eterna range of circular bulkhead light fittings (code CF28CR/MS/WH) which has been designed specifically to allow conversion for emergency use.

This emergency control gear may be incorporated into any other fitting that has been designed for emergency use, providing that the fitting is sufficiently large to allow circulation of air inside and correct dissipation of any build up of heat. For protection against possible electric shock, it must be fixed so that it is not possible to touch any live part (including the terminals) when opening the fitting to change the lamp. Use of this gear inside any fitting other than that for which it was specifically designed (see model reference above) may invalidate any warranty given at the time of purchase.

As the buyer, installer and/or user of this product it is your own responsibility to ensure that this ballast is fit for the purpose for which you have intended it. Eterna Lighting cannot accept any liability for loss, damage or premature failure resulting from inappropriate use.

This product is designed and constructed according to the principles of the appropriate British Standards and is intended for normal service. Use of this ballast in any other environment where higher than normal ambient temperatures are likely may result in a foreshortened working life – for example lighting public or shared spaces or in nursing / care home facilities. If the product is controlled with a PIR this can also shorten the lifetime of the ballast and the lamp.

Disconnect the fitting from the electrical supply before flash or high voltage testing.

This product is designed for permanent installation in a light fitting which should be connected to a dedicated constant live supply for battery charging and switched live supply for operation of the lamp. This circuit should be protected with a 5 or 6 Amp MCB or fuse.

When making connections, ensure that the terminals clamp the stripped conductors securely and that no strands of wire protrude. Check that the terminals are tightened onto the bared conductors and not onto any insulation.

This product must be connected to Earth.

You are advised at every stage of your installation to double-check any electrical connections you have made.

NOTE: Very frequent switching can shorten the life of the lamp. If lighting controls are used with this product (e.g PIR or microwave sensor) then to minimise this, it is recommended to adjust the time to the maximum setting.

The lamps (bulbs/tubes) & batteries supplied with this fitting are consumable parts and therefore may be outside of any warranty offered.

INSTALLATION:

Insert loose battery wire into the ballast. (See Fig. 3 opposite).

Fit the gear tray to your light fitting according to the instructions supplied with the light fitting.

Make connections according to Fig. 1 & 2 below:

Fig 1 - UNSWITCHED MAINTAINED UNIT

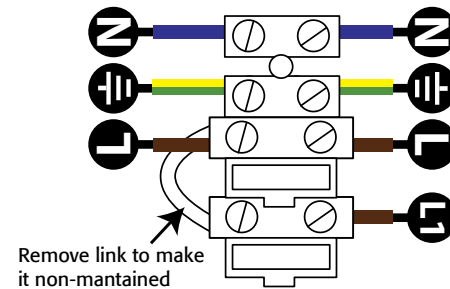
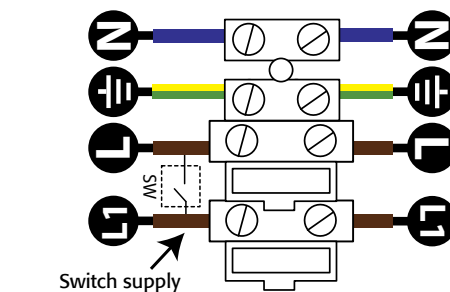


Fig 2 - SWITCHED MAINTAINED UNIT



Connections to the ballast/inverter control unit are made as shown in Fig. 3 opposite.

Fit a lamp and reassemble the fitting according to the instructions supplied with the fitting.

Terminate wires as above and restore the power and switch on. Green LED will indicate healthy charging circuit.

BATTERY REPLACEMENT:

If after routine operation check, the lamp does not remain lit for the three hour period, a new battery pack may be required.

Switch off the electricity at the mains.

Allow batteries to fully discharge then reconnect to supply and allow to charge for 24 hours.

Test again for 3 hours, if light does not remain lit change the battery pack as follows:

Remove the diffuser and trim (Eterna CF28 range).

Loosen the three screws indicated on the gear tray, slide and lift off.

Unplug the battery lead from the ballast (push fit connectors).

Undo the two screws that secure the battery pack in place and remove battery pack from the gear tray.

Write current date on the new battery pack.

Fit new battery pack securing in place using the screws removed from the old pack (or suitable alternatives).

Reconnect battery pack.

Replace gear tray, slide and secure in position by tightening the three screws.

Replace diffuser and the trim (Eterna CF28 range).

Restore power and allow to charge for at least 24 hours.

Perform full operation check and update test record.

OPERATION CHECKS:

Periodic testing should be carried out to ensure emergency lighting is operating correctly. Interruption of the supply, causing the fitting to be energised from the battery, should be carried out by the operation of a local keyswitch or other isolation device. During this period all fittings should be examined visually to ensure that they are functioning correctly. At the end of the test period the supply shall be restored and all indicator lamps or devices checked to ensure that the normal supply has been restored.

DAILY:

Visual inspection of the battery charge LED.

EACH MONTH:

Isolate the power supply for a period sufficient to ensure that each lamp is illuminated. Endorse the test record form supplied.

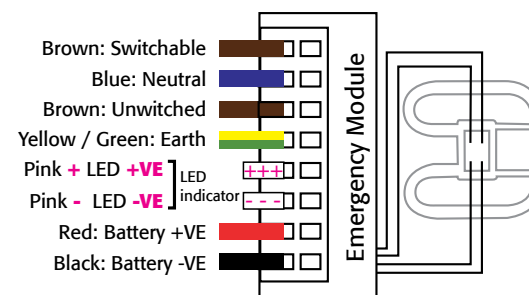
ONCE EACH YEAR:

Isolate the power supply and check that the light is still illuminated after 3 hours. Endorse the test record form.

Because of the possibility of a failure of the normal lighting supply occurring shortly after a period of testing of the emergency lighting system or during the subsequent recharge period, all full duration tests shall wherever possible be undertaken preceding time of low risk to allow for battery recharge.

NOTE: please keep this instruction booklet and the test record in a safe place. A fire officer or other authorised person may want to see your record of inspection and testing.

Fig 3 - WIRING DIAGRAM



IMPORTANT NOTES:

The ballast and control gear must be operated only within the enclosure supplied. The gear must not be operated outside of the enclosure.

The battery charging circuit and DC ballast are separated from the mains by at least basic (single layer) insulation.

When energised by a constant mains supply, the battery will be constantly charged whether or not the lamp is illuminated. On failure of the constant mains supply, the fitting will switch automatically using transistorised switching from battery charging to battery discharge powering the lamp whether or not the lamp was illuminated before the power failure. Both the mains and battery supplies incorporate fuse protection: see fitting for location and rating.



INSTALLATION, MAINTENANCE AND OPERATION CHECK RECORD

Product Description:

Installation
Date:

Installation
Test Duration:

Installed
By:

[illegible]