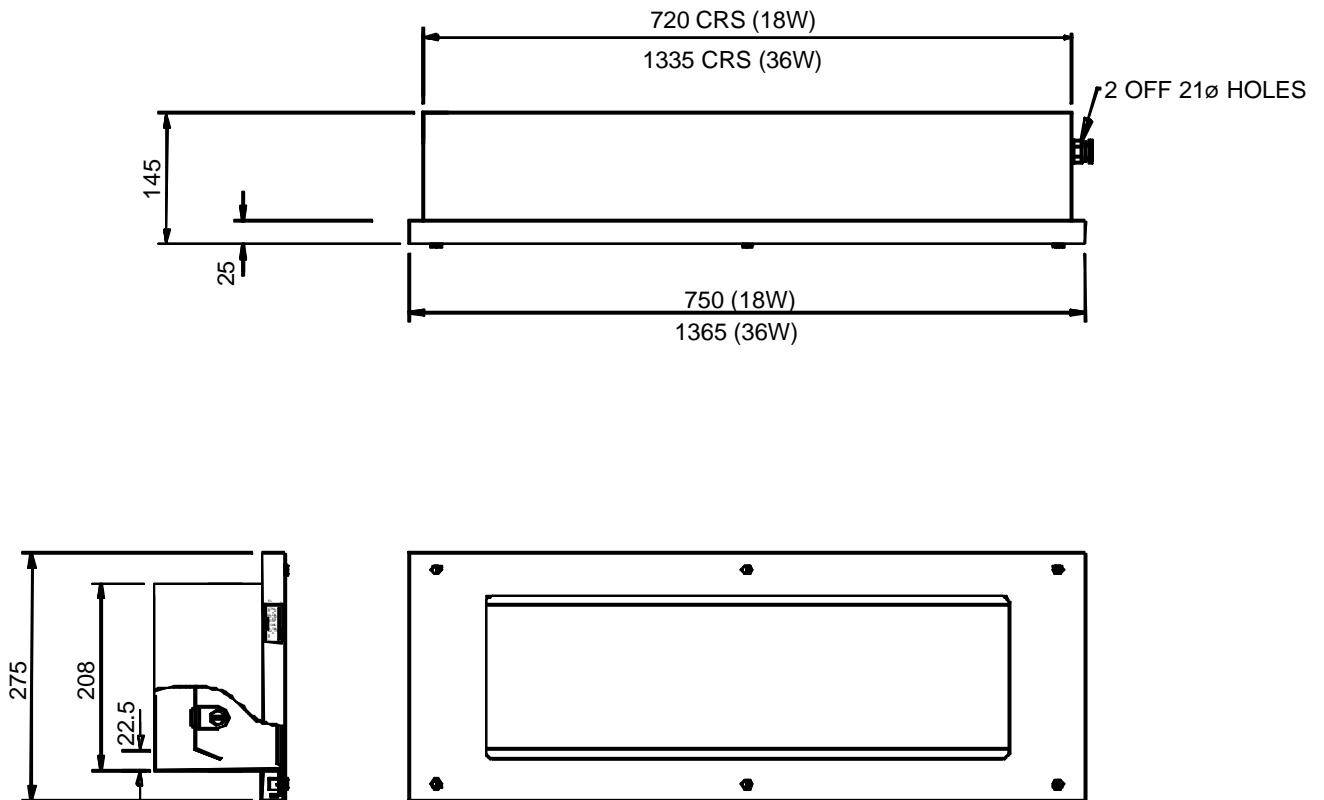


INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

Acclaim II Safe Area Recessible Fluorescent

Important : Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should be followed at all times and this data should be used as a guide only.



0.0 Specification

Type Of Protection	N/A
Area Classification	Non-Hazardous
Standard	BS EN 60598:1993
Certificate	T5 Tamb 40°C
Emergency Duration	BS EN 60598 2.22 (As per order)
Ingress Protection	IP23 to BS EN 60529:1992 (P54 To Order)

CE Mark



The CE marking of this product applies to "The Electrical Equipment (Safety) Regulations 1994", "The Electromagnetic Compatibility Regulations 1992", the "Waste Electrical and Electronic Equipment Regulations 2006" and the "Equipment and Protective Systems intended for use in Explosive Atmospheres Regulations 1996". [This legislation is the equivalent in UK law of EC directives 73/23EEC, 89/336/EEC and 2002/96/EC respectively].

1.0 Introduction - ACCLAIM II Safe Area Recessible Fluorescent Luminaire

The Acclaim II Safe Area series is a recessible fluorescent luminaire with the facility of an integral battery back up for emergency use.

B15 SOLAS The luminaire can be installed to interface with fire resistant ceiling systems to maintain a B15 SOLAS fire rating; the integrity of the ceiling and insulation must be maintained using suitable insulation materials. The ceiling/fitting and insulation should be continuous (without any gaps), care must be taken to maintain this classification.

When insulated refer to Chalmit for Tamb ratings, as it affects life and battery performance. Normal operation is mains supply two lamps on, switching to one lamp on battery back up, local switching of the mains lamps, the emergency lamp only being energised on mains failure.

Important : *This range is available in a number of similar but distinctly different versions. Care must be taken to use the correct instructions and spares, if in doubt contact Sales or Technical Department.*

2.0 Storage

Luminaires are to be stored in cool dry conditions preventing ingress of moisture and condensation. Any specific instructions concerning emergency luminaires must be complied with.

3.0 Installation and Safety

3.1 General

There are no health hazards associated with this product whilst in normal use. However, care should be exercised during the following operations.

Installation should be carried out in accordance with any applicable code of practice or regulations and fitting of specified insulating material is to be adhered too where a specific fire resistance rating is required. In the UK, the requirements of the "Health & Safety at Work Act 1974" and "Electricity at Work Regulations 1989" must be met. The luminaires are Class 1 and should be effectively earthed.

Application details on the rating plate must be verified against the requirements before installation.

The information in this leaflet is correct at the time of publication. The company reserves the right to make specification changes as required.

3.2 Tools

12mm, 8mm and 4mm flat blade screwdriver.
Suitable spanners for installing cable glands.
Pliers, knife, wire strippers/cutters.

3.3 Electrical Supplies

Luminaires fitted with electronic control gear are suitable for a rated supply between 220 and 240V, 47-63Hz, and for higher voltages to order. The safety limits are +10% of this. The supply would normally be expected to lie within +/-6% of rated. The lamp supply is regulated, therefore the light output over the range is substantially unchanged. Some luminaires are available for operation on dc and 110/130V and 277V ac. Operation from dc should be checked with the Technical Department before ordering. Electronic gear has integrated power factor correction to >0.95.

Warning : Electronic control gear is assessed and/or tested for EMC requirements. This is based on the disposition of entry cables and, where appropriate, through wiring arrangements as supplied or specified. Users must take care not to introduce wiring into parts of the apparatus materially different to that which could be reasonably inferred from the disposition of fixed supply terminals and specified through wiring.

For luminaires fitted with conventional control gear, the supply voltage and frequency should be specified when ordering. The safety limits are +10%. **Care is needed connecting to the nominal 230V UK public supply.** The user must determine the actual underlying site supply and purchase or adjust accordingly. Normally luminaires for 230V and 240V, 50Hz rating are supplied with a tap.

If the equipment is located in high or low voltage sections of the system, an appropriate voltage tap should be selected, but care must be taken to log or mark the equipment so that the tapping is re-set if the equipment is re-located. If in doubt, tapings should be set on the high side.

3.4 Lamps

Lamps are bi-pin fluorescent and can have the ratings 18W, 36W (T8) 26mm or 20W, 40W (T12) 38mm tubes. The bi-pin lampholder accommodates lamps to IEC81 with G13 cap.

3.5 Mounting

Luminaires should be installed where access for maintenance is practical and in accordance with any lighting design information provided for the installation. Where the luminaire is to be part of the ceiling construction, for aesthetic reasons, care is to be taken to ensure that the spacing and height specified by ceiling type is met. When mounting of ceiling support channels, via side arms, they must be secured onto channels by fixing screws. When B15 fire rating is a requirement, all conditions stated by the ceiling manufacturer and Chalmit must be met.

3.6 Cabling and Cable Glands

3.6.1 Cables

The temperature conditions of the supply cable entry point are such that 70°C (ordinary PVC) cable can be used in all luminaires. 300/500 volts ratings are adequate. The selection of the cable size will be suitable for the fuse rating, which applies to the circuit on the supply side of the control gear. The standard maximum looping size is 6mm² with options of 2.5mm² or 4mm² through wiring. An external M6 earth stud is fitted adjacent to the cable gland.

3.6.2 Cable Glands

Cable glands for entry into enclosures when fitted with any gland to body sealing method and the supply cable, must reliably maintain the IP rating of the enclosure. Two 21mm diameter holes are provided suitable for 20mm entries, one with a plug and seal suitable for permanent use, the other has a travelling plug. M20 entries are standard, other sizes are available on request. The clearance holes are powder coated so if required arrangements must be made to earth cable glands, kits are available and an external earth point is fitted as standard.

3.7 Electrical Connections

Access for the cabling is via removal of front cover and lamp tray. The front cover is secured using 4/10 off M5 captive screws, care to be taken as there is no suspension arrangement on this and the lampholder tray is secured

by M5 screws and keyhole slots with suspension, allowing the tray to swing down, giving access to terminal blocks. Install the conductors in the appropriate terminals. Take care not to cut the conductor insulation excessively, 1mm of bare conductor outside the terminal throat is a maximum. Unused terminal screws should be tightened. Before re-fitting the lampholder tray and front cover, the cores/cable should be neatly tucked away and a final check made on correct connections. If switched operation is used, the bridge is removed or the common live connection separated.

3.8 Installation

Following the mounting of the apparatus and the connection of the supply cable the unit **cannot** be insulation tested. When the unit is ready for operation the mains and the battery connections must be made, the unit is supplied with the battery disconnected. After commissioning, the unit can be shut down for a long period without loss of function.

3.9 Fitting Lamps

Before opening the front cover ensure that the luminaire is isolated from the mains supply. Access for re-lamping is via the front cover, care is to be taken as there is no suspension of the cover. Make sure that the correct lamp is selected.

4.0 Inspection and Maintenance

On battery models, we recommend that the battery duration is checked periodically.

4.1 Replacement of Electronic Ballast and Invertor Unit *(Where Fitted)*

The electronic ballast and invertor contain no replaceable parts. Should it be found necessary to replace these parts, the following procedure should be adopted:

Ensure that the luminaire is isolated from both mains and battery supplies, otherwise a risk of shock may occur. Disconnect the leads on the ballast at the terminal block. Undo the ballast securing screws and washers and withdraw the ballast from the gear body. Replace in reverse order. Replacement of the invertor is identical.

Important : *Isolate the mains supply and disconnect the battery terminal before carrying out any work.*

4.2 Routine Examination

The luminaire must be de-energised before opening. Individual organisations will have their own procedures. What follows are guidelines based on our experience :

- 1 Ensure lamps are lit when energised by mains supply and emergency lamp on battery pack.
- 2 Visually check cover front for damage, this should only be cleaned using a damp cloth, to avoid static, and only use recommended detergents for polycarbonates. If the polycarbonate is discoloured or damaged, a new cover assembly must be fitted. Additional prismatic diffuser or louvres should be cleaned with a dry cloth. If damaged, they should be replaced.
- 3 When de-energised and left to cool, there should be no significant sign of internal moisture. If there are any signs of water ingress, the luminaire should be opened up, dried and any likely ingress points eliminated by re-gasketing or other replacements.
- 4 Check cable gland for tightness and nip up if required.
- 5 Check any external and internal earths.
- 6 Check all terminations are firmly screwed down, tighten if necessary.
- 7 Check battery securing screws are tight, when fitted.
- 8 Check cover screw washers for wear and tightness of screws.
- 9 If it has been suspected that the luminaire has suffered mechanical damage, a stringent workshop check on all components should be made. All components can be removed from the luminaire for inspection.

5.0 Disposal of Material

The unit is made from combustible materials. The control gear contains plastic parts. All electrical components and the diffuser parts may give off noxious fumes if incinerated. Take care to render these fumes harmless or avoid inhalation. Any local regulations concerning disposal must be complied with. Any disposal must satisfy the requirements of the WEEE directive [2002/96/EC] and therefore must not be treated as commercial waste. The unit is mainly made from incombustible materials. The control gear contains plastic, resin and electronic components. All electrical components may give off noxious fumes if incinerated.

5.1 Lamps

Fluorescent lamps in modest quantities are not "special waste". They should be broken up in a container to avoid injury. Avoid inhaling dust.

Important : *Do not incinerate lamps.*

5.2 Battery Disposal

Nickel cadmium batteries are defined as 'controlled waste' under the hazardous waste regulations and the disposer needs to observe a 'duty of care'.

Batteries can be returned to the manufacturers for re-cycling. They must be stored and transported safely and any necessary pollution control forms completed prior to transportation. Take care to fully discharge batteries before transporting or otherwise ensure that there can be no release of stored energy in transit. For further details refer to our Technical Department.



To comply with the Waste Electrical and Electronic Equipment directive 2002/96/EC the apparatus cannot be classified as commercial waste and as such must be disposed of or recycled in such a manner as to reduce the environmental impact.

Chalmit Lighting
PO Box 5575
Glasgow
G52 9AP
Scotland

Telephone : +44 (0) 141 882 5555
Fax : +44 (0) 141 883 3704
Email : info@chalmit.com
Web : www.chalmit.com

For technical support, please contact: techsupport@chalmit.com

Registered Office:

Mitre House,
160 Aldersgate Street,
London,
EC1A 4DD

Registered No: 669157

Note :

Chalmit Lighting reserve the right to amend characteristics of our products, and all data is for guidance only.



Chalmit Lighting is a leading supplier of Hazardous Area and Marine Lighting products.