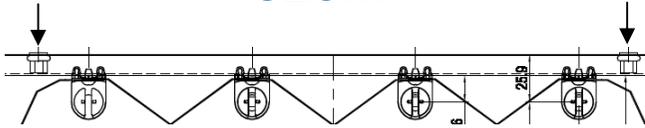


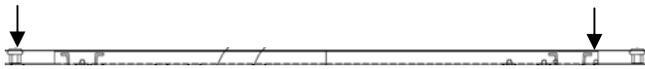
FIXING CENTRES (end view)

325mm



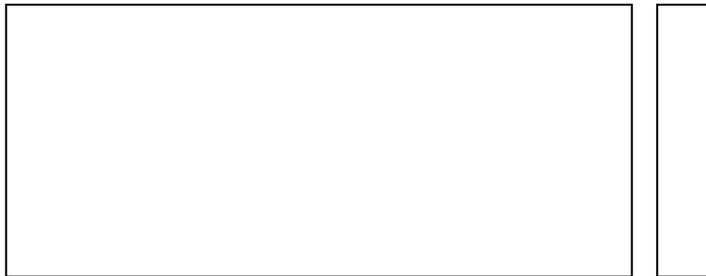
FIXING DISTANCE (side view)

810mm or 1210mm



OVERALL DIMENSIONS

max 1500mm x 535mm x 105mm



TECHNICAL SPECIFICATION



STANDARD HIGH FREQUENCY CONTROL GEAR
 Defined lamp warm start within 1.5 seconds
 Economical operation thanks to smart heating
 Constant light output independent of fluctuations in mains voltage
 Average life = 50,000 h (at ta max. And failure rate of $\leq 0.2\%$ per 1,000 h)
 AC voltage range: 198-264V
 DC voltage range 176-280V (for ignition input voltage $\geq 198V$ DC)
 Power factor: ≥ 0.94
 Over voltage protection: 320V AC, 1 h
 Over voltage indication starting at input voltage: $\geq 306V$ AC
 Under voltage protection (shutdown): $<150V$ AC/ $176V$ DC
 Operating frequency: $\geq 42kHz$
 Wide operating temperature: -25 to $+50^{\circ}C$
 Suitable for emergency lighting installations in accordance with EN 50172
 Safe switch off of defective lamps
 Automatic re-start after lamp change
 Luminaires in accordance with EN 60598
 Thermal protection according to EN 61347-2-3 C5e

LUMINAIRE
 Dimensions (LxWxD): 1500mm x 535mm x 105mm
 Weight:[†] 15Kg (open) 18.7Kg (enclosed)
 Enclosure construction: Steel
 Enclosure finish: White powder coated
 Reflector: MIRO4
 IP Rating: IP65 (Enclosed version)
 IP20 (Open version)
 Useful operational life: 24,000 hours – Standard
 48,000 hours – 'Ultra'
 Control gear: High Frequency (dimming and multi wattage versions available)
 Lamp colour: Col 840 as standard – other colours available on request
 Lamp type: 54 or 80 Watt (4000k) triphosphor T5 lamps as standard.
 Other lamps types are available, i.e. 49W

Specifications may change without prior notice

[†]Weights shown are for the 54 Watt versions

Brilliance & Intelligence



Standard Fixing Method

All Brilliance and Intelligence luminaires are supplied with M6 threaded inserts. Four fixing points must be used. Location of the fixing points provided vary according to the model and weight of the luminaire. See drawing provided.

The fixings are provided to allow installation using one of the following methods:

- ◆ Suspended Via Threaded Rod
- ◆ Suspended Via Chain / Wire Systems

Suspended Fixing Systems

As the luminaire is not balanced two central chain or wire method is not recommended.

During the design process it is important that the luminaire weight is considered when allocating fixing methods.

Note: Under no circumstances should the luminaire be modified, drilled or adjusted without the written permission of Chalmor Ltd. Any unauthorised adjustment or modification will void all warranty.

Fix using suitable fixing frames, screws, bolts or chains using 4 x 6mm fixing points.

The luminaire fixing points must be correctly used at all times.

The luminaire must be securely fixed and it is recommended that an additional safety chain or fixing be used to prevent the luminaire from falling if installed in an environment where the luminaire may be accidentally damaged.

The luminaire should be installed using 4 x 6mm fixing points. Supplementary fixings are provided on heavier fittings.

It is recommended that fixing is by Unistrut threaded rod or Unistrut channel and accessories are installed for chain / wire systems. Where Unistrut channel is required, two lengths of at least 375mm should be used to span across each pair of fixing points.

The luminaire is only designed to be mounted horizontally in internal or sheltered areas.

Installation methods

Installation and connection should satisfy the requirements of the latest edition of IEE Regulations BS7671. Installation should only be conducted by a qualified electrician.

Guidance on the installation of luminaires is available on request or will have been supplied as an amendment to this sheet or within a Scope of Works or specification document.

For further support, please contact the Technical Support line on 01582 748700.

Lamp installation

The luminaire has been supplied with T5 lamp holders fitted. We recommend the use of high quality T5 lamps only.

The reflector is supplied with protective film. Before installing the lamps the protective film must be removed using a suitable cotton glove. Contact with the reflector should be minimal and only using cotton gloves to prevent damage to the finish.

To install the lamps the following procedure must be observed.

- (a) To open the luminaire loosen the lid fixing screws or release the pin latch system by pressing the lid firmly where indicated at the end of the luminaire lid. Lower the lid taking care to prevent the lid from dropping or any of the fixing screws from falling.
- (b) Remove the lamp from the box and remove all packaging.
- (c) Carefully insert the lamp in to the lamp holders and rotate 90 degrees within the lamp holders.
- (d) Re-attached the lid taking care to ensure any captive devices and earth tag connections are properly reinstated.
- (e) Lamps should be run in for 100 hours before any dimming control system is introduced.

DISCLAIMER

Chalmor Ltd will accept no responsibility for lamps damaged during the installation process or for lamps which show signs of incorrect handling, storage or use.

Electrical Connection

Each luminaire has been supplied with approximately 1m of 3 core flexible cable. This should be connected to the supply using a suitable method of connection.

BROWN is connected to the phase (live) conductor
BLUE is connected to the neutral conductor
GREEN/YELLOW is connected to the circuit protective conductor (earth)

The following information provides guidance of the requirements for electrical circuits and protective devices supplying Brilliance or Intelligence luminaires.

The luminaire strikes instantaneously and so during the switching on process, at peak voltage, the internal storage capacitors will create an inrush current for a few milliseconds.

Where multiple luminaires are switched simultaneously the combined inrush current may become greater than the rating of the protective device leading to activation. Due to the operating characteristics of the ECG these effects must be considered during the electrical circuit design process to prevent false operation of the circuit protective device.

Circuit breaker type and operating characteristic need to be considered when designing a circuit to supply these luminaires.

For further support, please contact Technical Support:

Tel: 01582 748700.
Fax: 01582 748748
Email: info@chalmor.co.uk