



Brilliance & Intelligence



Our new generation Brilliance and Intelligence (with sensor) light fittings use high performance T5 linear fluorescent lamps to produce a high quality flicker free light for demanding applications.

Through continued development and input from our customers, we have developed the latest generation of Brilliance and Intelligence fittings to be fully future proof with removable geartrays giving flexibility for future technologies.

Our enclosed fittings are now ideal for food processing applications due to the elimination of fixings to the front cover. This also has the advantage of no tools being required to change lamps.

Why use T5 Lamps?

T5 lamps offer the benefits of an energy efficient light with as standard, a useful operating life of 24,000 hours.

A 48,000 hour guaranteed long life lamp is also optionally available.

With less frequent switching it is possible to extend the lamp life of fittings significantly. For the Long Life version, with one on/off switching per day, average lamp life is extended up to 70,000 hours.

Bringing flexibility to lighting applications

Both Brilliance and Intelligence may be specified with "Multi Switching" to provide partial and full lighting for improved energy efficiency. Fittings may also be specified with an integral 3 hour Emergency pack with a neon indicator.

Both types of fitting are suitable for replacing 400 watt discharge fittings with potential to halve installed electrical load and extend relamping schedules by up to 300%. The justification for such fittings is even greater when maintenance savings and disruption is taken into account.



Fixing-free enclosed version



Intelligence features 360° PIR or a range of microwave sensors. Remote handset options also available

FEATURES

Brilliance & Intelligence

- Long life, energy efficient T5 lighting with high frequency control gear
- High light output ratio (LOR)
- Ideal for areas requiring high lighting levels
- Range of control and lamp options, including shatterproof and 'Ultra' longlife lamps
- Dimmable and multi wattage control gear options
- Integral emergency lighting available
- Open or enclosed fittings with 3,4,5 and 6 lamp options
- Excellent colour rendition
- Standard 4000K colour temperature
- Fixing free enclosed fitting, IP65 option, ideal for food processing plants
- Future proof fitting with removable control gear tray
- Spine fixings to the rear of fitting

Additional Intelligence features

- Attached or integrated lighting controls in a single fitting
- Intelligence provides true local control for enhanced responsiveness
- Please note sensors need to be specified at the time of ordering

BENEFITS

- Cold Spot optimiser's standard or Constant Output lamps optional for open fitting
- 'Ultra' long-life lamps provide up to 11 years before relamping (running 12h/day)
- Addresses health issues associated with working under SON lighting for extended periods
- Reduced maintenance costs with extended relamping schedules
- Some versions qualify for Enhanced Capital Allowances
- Easy to install, minimal rewiring for retrofit



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

CERTIFICATION

March 2010 saw the first stage of new Commission of the European Communities regulations with regards to ecodesign requirements (2005/32/EC) for fluorescent lamps, and for ballasts and luminaires able to operate such lamps, and repealing Directive 2000/55/EC.

By using the latest control gear and lamps, Brilliance and Intelligence not only complies with future European legislation, but also conforms to EN 60598-1 and relevant Parts 2. Tri-phosphor and amalgam fluorescent lamps comply with EN61195 (safety) and EN60081 (performance) and with nominal initial (100h) lumen values included in this criteria.

Before



After



Microwave sensor shown with directional adjustment

Brilliance and Intelligence are available with a variety of configurations, to ensure you get most efficient fitting for your organisation, we recommend you contact info@chalmor.co.uk or call us on **0844 351 1199**

