



L	676 mm
Ø	80 mm

**LED luminaire with high mechanical and chemical resistance in tubular form for low temperatures and severe conditions such as ATEX Group II, category 3D dust and 3G gas environments.**

### ILLUMINOTECHNICAL

Luminous efficiency 100% (DLOR 95%, ULOR 5%).  
 Initial luminous flux of the luminaire 2181 lm.  
 Direct symmetric concentrated distribution.  
 Installation Interdistance Transv.D = 0.57 x hu - Long.D = 1.14 x hu.  
 Tabular UGR (CIE 117 - 4H-8H; S=0.25H; 70/50/20): RUG 19.9 - 18.3.  
 Beam angle: 36° - 74°.  
 Luminous efficacy 150 lm/W.  
 Lifetime (L97/B10): 30000 h. (tq+25°C)  
 Lifetime (L95/B10): 50000 h. (tq+25°C)  
 Lifetime (L92/B10): 80000 h. (tq+25°C)  
 Lifetime (L90/B10): 100000 h. (tq+25°C)  
 Lifetime (L90/B10): 50000 h. (tq+40°C)  
 Sudden decreased luminous flux after 50000 hours: 0% (C0).  
 Photobiological safety in compliance with IEC/TR 62778: RG0 risk exempt, (IEC 62471).  
 In compliance with IEC/EN 62722-2-1 - IEC/EN 62717 standards.

### SOURCE

Linear LED module 22W/840.  
 Source with special protection against aggressive chemically-volatile substances for standard LED technology.  
 Energy efficiency class (UE 2019/2020 - UE 2019/2015): C.  
 CIE 13.3 Colour rendering index: CRI >80 (R9 <50%).  
 IES TM-30 Fidelity Index: Rf = 84 Rg = 95.  
 CCT nominal colour temperature 4000 K.  
 Colour initial tolerance (MacAdam): SDCM 3.

### MECHANICAL

High thickness tubular body in high transparency polycarbonate surface treatment, which guarantees resistance to aggressive chemical agents.  
 Methacrylate (PMMA) lenses with external flat surface.  
 Die-cast aluminium end caps, painted in grey polyester.  
 Sealing gasket.  
 Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.  
 Fixing brackets and screws in AISI 316 stainless steel.  
 Dimensions: length 676 mm, diameter 80 mm. Weight 2.815 kg.  
 IP66 protection degree.  
 Mechanical strength to impacts IK10 (20 joule).  
 Glow-wire test resistance 850°C.

### ELECTRICAL

Halogen Free DALI-2 DATI (Parts 251, 252, 253), PUSH-DIM, electronic wiring 230V-50/60Hz, power factor 0.95 at full load, THD <25%, constant output current, class I, 1 driver, 1 DALI address.  
 Power of the luminaire 14.5 W.  
 ENEC - CE.  
 IMQ 24 ATEX 002 X certification.  
 SAFE FLICKER: PstLM=<1 and SVM=<0.4 (IEC TR 61547-1 and IEC TR 63158), to ensure a more comfortable and safe light.  
 Luminaire compliant with EN 60598-2-22 for power supply from a centralised emergency system CPSS (Central Power Supply System), not incorporated in the luminaire - high risk areas excluded. The default power and flux are 100% in AC and 15% in DC.  
 Ambient temperature from -20°C to +40°C.  
 Temperature class T6 max 85°C.  
 Quick connection via M20x1.5 cable gland in fibreglass reinforced polyamide with 1.5m H07RN-F 5G1.5mm² cable.  
 Relative humidity UR: <95%.

Performances are measured and certified by our CTFs2 Photometric Laboratory (EN 13032, IES LM79); Test and Inspections (EN IEC 60598-1, CISPR 15, IEC 61547). Due to the technological evolution of the electronic components, the data provided may be updated, and as such, confirmation must be requested during the order process. Luminous flux and power supply have +/-10% tolerances with respect to the indicated value. tq +25°C (CIE 121).

Dimensions and specifications subject to alterations without notice.

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### INSTALLATION

Ceiling / Suspended / Wall.  
 All accessories dedicated to this product are available on the Catalog and on our website www.3F-Filippi.com.

### APPLICATIONS

Environments with ATEX explosive atmosphere for dust, zone 22 and for gas, zone 2 (Conformity 2014/34/UE, EN IEC 60079-0, EN 60079-15, EN 60079-31): Group II, Category 3D (Ex Tc IIIC T85°C Dc) and Category 3G (Ex nR IIC T6 Gc).

Suitable product for food production plants (HACCP), IFS (Food), BRC (GSFS Food).

Severe Industrial Environments, food and agri-food industries, scientific and food processing laboratories, environments with high humidity, swimming pools, railway, aeronautical and port applications.

In environments with temperature from -20°C to +40°C with a humidity degree up to 95%, except the ones where the luminaire materials are unsuitable.

Body resistant to the following substances: Ethyl alcohol (24 hours at 20°C), aqueous detergents, hydrochloric acid (produces a slight halo), DOT4 brake oil, sulfuric acid (produces a slight halo), ammonia.

When using this data, remember that it is the result of laboratory tests, and therefore valid only under those test conditions: the data is to be considered approximate and, in the absence of practical experience, it is advisable to carry out tests under actual operating conditions.

Temperature and concentration of the chemical agent can affect materials and influence LED technology.

For applications in environments in which disturbances on the power network may be present and/or involve use at low temperatures, surge protection devices should be fitted on the power supply and any causes of undervoltages eliminated.

For specific applications please contact our technical offices.

### LIGHT MANAGEMENT

Recommended minimum setting: 10%.

The luminaire, equipped with (DALI-2 DATI) driver, can be controlled manually with 3F Easy Dim technology or automatically/manually with wired or wireless DALI/D2D control systems.

The D2D driver guarantees interoperability with other devices with the same certification by making the following information available:

Device Data (Part 251), Energy Report (Part 252), Diagnosis & Maintenance (Part 253).

In electrical systems without a regulation system (manual or automatic) and DALI bus, a suitable jumper must be made on the DA-DA terminals of the appliance.

### WARNING

Luminaire designed for disposal/recycling at end-of-life.

Replaceable (LED only) light source by a professional. Replaceable control gear by a professional.