



**LED retrofit kit suitable for 2x Fluorescent 3F Linda 2x luminaires.**

### ILLUMINOTECHNICAL

Luminous efficiency 100% (DLOR 97%, ULOR 3%).  
 Initial luminous flux of the luminaire 3836 lm.  
 Controlled symmetric distribution.  
 Installation Interdistance Transv.D = 1.52 x hu - Long.D = 1.17 x hu.  
 Tabular UGR (CIE 117 - 4H-8H; S=0.25H; 70/50/20): RUG 24.1 - 23.  
 Beam angle: 94° - 78°.  
 Luminous efficacy 137 lm/W.  
 Lifetime (L96/B10): 30000 h. (tq+25°C)  
 Lifetime (L93/B10): 50000 h. (tq+25°C)  
 Lifetime (L89/B10): 80000 h. (tq+25°C)  
 Lifetime (L85/B10): 100000 h. (tq+25°C)  
 Lifetime (L90/B10): 50000 h. (tq+35°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

2 linear LED modules 12W/840.  
 Energy efficiency class (UE 2019/2020 - UE 2019/2015): D.  
 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

Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.  
 Luminaire with limited surface temperature. - D - (EN 60598-2-24)  
 Dimensions: 660x160 mm, height 100 mm. Weight 1.6 kg.  
 Glow-wire test resistance 850°C.

### ELECTRICAL

Halogen Free electronic wiring 230V-50/60Hz, power factor 0.90, THD <25%, constant output current, SELV, class I, 1 driver.  
 Power of the luminaire 28 W.  
 CE - IEC 60598-1 - EN 60598-1.  
 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 100% in DC.  
 Ambient temperature from -20°C to +35°C.  
 Temperature class T6 max 85°C.  
 Relative humidity UR: <85%.

### INSTALLATION

Retrofit.  
 Correct installation of the retrofit LED kit, compliant with EN 60598-1 and CE marked, inside the 3F Filippi - 3F Linda Fluorescent luminaires must be only performed by qualified personnel to ensure compliance with the national installation standards.  
 All accessories dedicated to this product are available on the Catalog and on our website [www.3F-Filippi.com](http://www.3F-Filippi.com).

### ACCESSORIES

Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded with smooth outer surface.

### WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.  
 If the luminaire being retrofitted has a transparent prismatic screen, it must be replaced with the new photo-etched screen, available as an accessory.  
 Attention: to maintain the degree of protection of the device and for the purposes of validity of the guarantee of the new retrofit kits, it is imperative to replace the old cable guides (on the body of the device) with the new ones supplied.  
 Luminaire designed for disposal/recycling at end-of-life.  
 Replaceable (LED only) light source by a professional. Replaceable control gear by a professional.

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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