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|---|--------|
| L | 599 mm |
| A | 599 mm |
| H | 90 mm  |

## ILLUMINOTECHNICAL

Luminous efficiency 100% (DLOR 100%, ULOR 0%).  
 Initial luminous flux of the luminaire 3479 lm.  
 Emergency luminaire luminous flux BLF 18.7%.  
 Direct symmetric distribution.  
 Installation Interdistance Transv.D = 1.17 x hu - Long.D = 1.16 x hu.  
 Average luminance <1500 cd/m<sup>2</sup> for radial angles >65°.  
 Tabular UGR (CIE 117 - 4H-8H; S=0.25H; 70/50/20): RUG 16.8 - 16.6.  
 Beam angle: 90° - 88°.  
 Luminous efficacy 102 lm/W.  
 Lifetime (L93/B10): 30000 h. (tq+25°C)  
 Lifetime (L90/B10): 50000 h. (tq+25°C)  
 Lifetime (L85/B10): 80000 h. (tq+25°C)  
 Lifetime (L80/B10): 100000 h. (tq+25°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

Squared LED module 28W/840.  
 Source with special protection against aggressive chemically-volatile substances for standard LED technology.  
 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

Housing in galvanized steel, painted in white epoxy-polyester.  
 Perimetral frame in white stainless steel.  
 VSS moulded laminated dipped glass, non-combustible, thickness 7 mm.  
 Anti-glare opal polycarbonate filter for brightness uniformity.  
 The version 599x599 is dedicated to modular metal false ceilings with dimensions of 600x600.  
 Luminaire with limited surface temperature. - D - (EN 60598-2-24)  
 Dimensions: 599x599 mm, height 90 mm. Weight 10.3 kg.  
 IP66 protection degree for exposed part, IP64 for recessed part.  
 Mechanical strength to impacts IK08 (5 joule).  
 Glow-wire test resistance 650°C.

## ELECTRICAL

Halogen Free DALI-2 DATI (Parts 251, 252, 253), PUSH-DIM, electronic wiring 230V-50/60Hz, power factor 0.90 at full load, THD <25%, constant output current, SELV, class I, 1 driver, 1 DALI address.  
 Power of the luminaire 34 W.  
 CE - IEC 60598-1 - EN 60598-1.  
 EP maintained emergency wiring on board with dedicated quick connection, 1h duration, 24h recharge; compliant with EN 60598-2-22, excluding high risk areas.  
 SAFE FLICKER: PstLM=<1 and SVM=<0.4 (IEC TR 61547-1 and IEC TR 63158), to ensure a more comfortable and safe light.  
 Ambient temperature from +5°C to +25°C.  
 Temperature class T6 max 85°C.  
 5-pole terminal block (L-N-PE-DA/DA) quick connection for line connection with connection capacity 2x2.5 mm<sup>2</sup> per poles.  
 Relative humidity UR: <85%.

## INSTALLATION

Trimless recessed fitting, to be used with inspectable false-ceilings that can be inspected using fixing brackets which are always required, also designed for the hanging from rough ceiling.  
 All accessories dedicated to this product are available on the Catalog and on our website [www.3F-Filippi.com](http://www.3F-Filippi.com).

## APPLICATIONS

Suitable product for food production plants (HACCP), IFS (Food), BRC (GSFS Food).  
 Environments: hospital premises, transit areas, laboratories, platform-roof, underpasses.  
 Environments: sterilized, aseptic.  
 In hospital environments, food industry or machines with parts in motion, with considerable sudden temperature changes, and in general in any environments requiring total protection against falling fragments, use luminaires with laminated glass only.  
 Tempered glass is not immune to falling fragments from harmless and caused by shocks or exceptionally derived from the tempering process.  
 Environments requiring a high level of protection and simplified cleaning.  
 Environments with exacting visual tasks, where diffused soft light for optimum visual comfort is required.

## 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.

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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