







TYPE OF PRODUCTS

Cleanroom luminaires, circular, recessed LED, IP65, access from the top. Walkable solution.

MECHANICAL CONSTRUCTION

Structure of the luminaire made of 1 mm steel continuously welded. Powder coated with KilBac white RAL 9003, certified qualicoat class 1 and antibacterial. Upper clamping frame made of 3 mm red lacquered aluminium. Top cover red lacquered of 1 mm steel.

LED MODULES

Circular LED modules with an energy efficiency until 170 Lm/W. Assembled on a 2 mm aluminium plate to ensure an optimal heat dissipation for the lifespan of the LEDs. Low chromatic distortion: 3SDCM. Colour rendering index over 90. Expected luminous flux: L80 at 50.000 h.

OPTICS

- OPMI: opal diffuser in special LED PMMA (Perspex).

CONTAMINATION CONTROL

Reduced risk of microbial growth:

>> KilBac technology, broad spectrum antibacterial finish with silver ions (BioCote, validated according to ISO 22196).

The mechanical construction of the luminaire ensures a particle emission class 3 according to ISO 14644-14. This range is made without silicone.

WAIKARIF

Luminaires designed and tested to withstand the application of a 100 kg mass on the top cover corresponding to accidental feet pressure on the luminaire in the walkable plenum.

H₂O₂ RESISTANCE

The components that may come into contact with hydrogen peroxide during the decontamination process were tested by cyclic, direct and prolonged contact with a 35% $\rm H_2O_2$ solution, see the resistance in the reference table.

TEMPERATURE AND HUMIDITY

Reference ambient temperature : 20° C / 68° F. Operating temperature range: 5 to 25° C / 41 to 77° F (the temperature affects the lifetime of the LEDs). For environments with a moisture content of more than 70%, we recommend the use of lacquered INOX 304 for the housing, in option.

POWER SUPPLY

Luminaires supplied with European-branded EPF electronic driver. Rated voltage 220-240 V. DALI dimming (GDA) available in option Access from the top of the luminaire, without breaking the room classification.

INSTALLATION

Installation in sandwich panels from 15 to 100 mm. Adaptations for different thicknesses are possible on request. Quick installation without opening the luminaire. The sealing between the false ceiling and the lower frame must be applied at the installation.

WIRING

By a waterproof Wieland brand connector, RST20i, fixed to the top of the luminaire (installation on flexible cord).



























OPTIONS



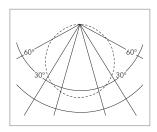


Extra coverExtra walkable protection on top the luminaire.



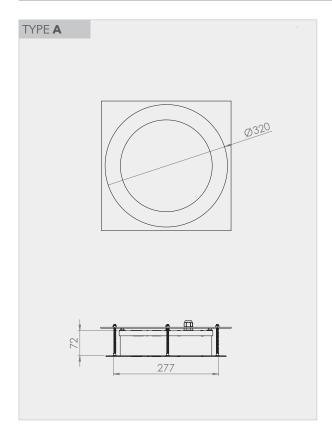
KS3 emergency kit Philips Trustsight BASIC kit, 3.6 V 4000 mAh NiMH battery, power supply 3 W for 3 h, approx. 300 Lm

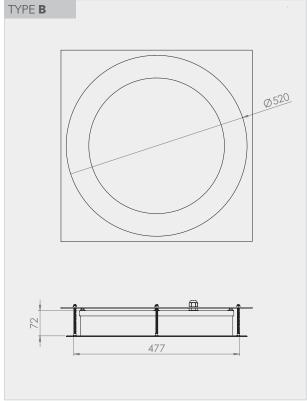
PHOTOMETRY



Opal

DIMENSIONS (mm)





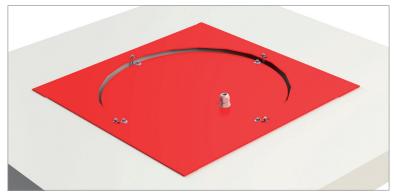




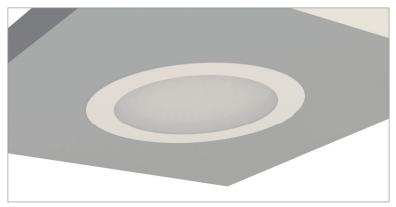
INSTALLATION PLAN



PHOTOGRAPHIC DETAILS



View from the plenum. An additional cover for closure and protection is available in option. Power cord included but not illustrated.



Installed luminaire, view from cleanroom side.



IUNA

REFERENCES AND FEATURES

CODE	REFERENCE	Туре	Cut-out (mm)	P (W)	Emitted flux (Lm)	Efficiency (Lm/W)	Weight (Kg)	H ₂ O ₂
OPMI optics - PMMA opal PERSPEX diffuser								
EUP2208EPF	LUNA 500 OPMI / 4000/1 40/940 EPF	В	Diam 480	35	4000	115	8	•
EUP2209EPF	LUNA 300 OPMI / 2000/1 20/940 EPF	А	Diam 280	18	2000	110	6	•

Light and power output tolerance ± 10%

Standards and warranty

Compliance: information on the compliance of our products with the relevant standards and directives is available on our website.

Warranty: our warranty conditions are indicated in our general terms and conditions of sale. There are special conditions depending on the product range. These conditions can be checked on our website: www.isoone-cleanroom-lighting.com/conditions-generales-de-vente/

Temperature and switches on: the operating temperature and the number of daily switches have an influence on the lifetime of the products. Our luminaires are designed to withstand at least 15.000 switches on following EU 1194/2012.

Please consult us for more information.

Note

ISOONE reserves the right to modify or update this document at any time within the framework of the technological evolution and the updating of our technical documentation. Despite the care taken in the design and the updating of this card, it can not under any circumstances constitute a contractual document.



IUNA

UE Declaration of Conformity



UE Declaration of Conformity



Certificate N° CE_LUNA_20231105

LA MANUFACTURE DE FRANCE SAS 18 rue Jean Monnet 31240 Saint-Jean

CERTIFIES,

EUP2208EPF

EUP2209EPF

are designed and manufactured in accordance with the following harmonized directives and standards:

SECURITY

2014/35/UE (26/02/2014) Electrical equipment designed for use within certain voltage limits.

EN 60598-1: 2015 Luminaires - Part 1: General requirements and tests.

EN 60598-2-2: 2012 Luminaires - Part 2-1: Particular requirements - Fixed luminaires for general

lighting.

EN 62493 : 2015 Assessment of lighting equipment related to human exposure to electroma-

gnetic Field.

EN 62471: 2008 Photobiological safety of lamps and devices using lamps.

ELECTROMAGNETIC COMPATIBILITY

2014/30/UE (26/02/2014) European « EMC » Directive.

EN 55015: 2013 + A1: 2015 Limits and methods of measurement of electrical radio interference from elec-

trical lighting and similar equipment.

Electromagnetic compatibility (EMC) - Part 3-2 : Limits - Limits for harmonic

current emissions (current drawn by equipment \leq 16 A per phase).

EN 61000-3-3: 2014 Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage

changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to condi-

tional connection.

EN 61547: 2009 General purpose lighting equipment - EMC immunity requirements.

ECO-CONCEPTION

2009/125/CE (21/10/2009) + 2019/2020 (01/10/2019)

European « ErP » directive + regulation.

RESTRICTION OF DANGEROUS SUBSTANCES

2011/65/UE (08/06/2011) European directive « RoHS ».

Certificate issued on May 15th 2023

President,

Frédéric Colombo

SOONE-FT-Juin2021-V1-LUNA_EN - 23-05-15-1601