



# SIRIUS



### TYPE OF PRODUCTS

Surface mounted LED luminaires, IP65 all around, access from the bottom. Overall height 38 mm, with integrated power supply.

### MECHANICAL CONSTRUCTION

Inverted pyramidal body, made of 0.8mm steel plate, LaserWeld waterproof assembling technology, powder coated with KilBac white RAL 9003, certified qualicoat class 1 and antibacterial. Lower frame in white lacquered aluminium, screwed on the housing through 4 stainless steel screws, closed by overlapping.

### LED MODULES

**White light** : Zaghera LED modules Book7, L28W6, with an energy efficiency until 185 Lm/W, rated AA+. Assembled on a 2mm aluminium plate to ensure an optimal heat dissipation for the lifespan of the LEDs. 3SDCM. Colour rendering index 85. Expected luminous flux : L80 at 70.000 h.

**Inactinic light** : amber (590 nm) or red (620 nm), specific led's PCB in aluminium with Zaghera Book7, L28W6, made in France.

### OPTICS

Optical assembly bonded with silicone-free sealant, certified for use in cleanrooms :

- **OPMI** : opal diffuser in PMMA (Perspex).
- **MPPC** : clear polycarbonate diffuser + inner microprismatic plate. High visual comfort and impact resistance.

### CONTAMINATION CONTROL

Reduced risk of microbial growth :

- >> **KilBac** technology, broad spectrum antibacterial finish with silver ions (BioCote, validated according to ISO 22196).
- >> **CleanSeal** technology, use of two-component antimicrobial seals according to VDI-6022 and DIN EN ISO 846.

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

### H<sub>2</sub>O<sub>2</sub> 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% H<sub>2</sub>O<sub>2</sub> solution, see 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 electronic driver from European brand. Rated voltage 220-240V 50/60Hz. DALI dimming (GDA) available in option. Access from the bottom.

### INSTALLATION

Application on a rigid support, 4-point fixing.

### WIRING

Power supply through a membrane plug gland on top of the luminaire :

**White light** : 2-pole terminal block + earth inside the luminaire. Access through the luminaire housing through a cable gland (rewiring impossible).

**Hybrid white + inactinic light without dimming** : two independent circuits wired on a 5-pole terminal block : N1F1-N2F2-T.

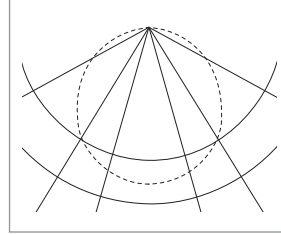
**Hybrid white + inactinic light with dimming DALI** : a single electrical circuit wired to a 5-pole terminal block : N1F1T-D1D2. One DALI bus but two addresses per luminaire. Switching on and off via DALI controller only (push button not possible).



OPTIONS

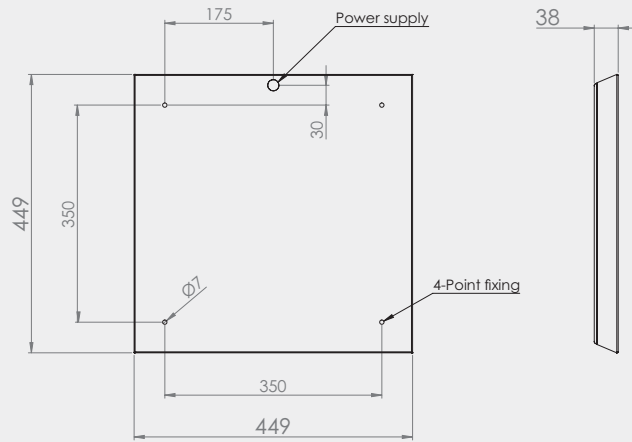


PHOTOMETRY

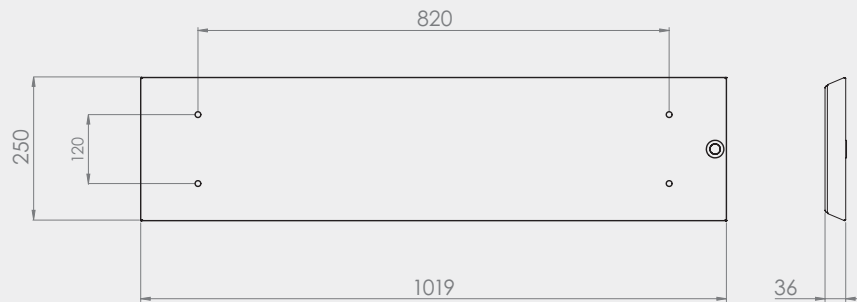


DIMENSIONS (mm)

TYPE A



TYPE B



REFERENCES AND FEATURES

CODE	REFERENCE	Type	P (W)	Emitted flux (Lm)	UGR	Weight (Kg)	H <sub>2</sub> O <sub>2</sub>
<b>OPMI optics - Opal diffuser PMMA</b>							
SUR1078EPF	SIRIUS OPMI LED 450/450 3900/5 28/840 EPF	A	28	3900	<21	5	●
SUR1084EPF	SIRIUS OPMI LED 450/450 5500/1 44/840 EPF	A	44	5500	<21	5	●
SUR1152EPF	SIRIUS OPMI LED 450/450 7000/1 65/840 EPF	A	65	7000	<21	5	●
SUR1003EPF	SIRIUS OPMI LED 1020/250 4500/6 38/840 EPF	B	38	4500	<21	6	●
SUR1080EPF	SIRIUS OPMI LED 1020/250 7000/6 57/840 EPF	B	57	7000	<21	6	●
<b>MPPC optics - Microprismatic diffuser</b>							
SUR1132EPF	SIRIUS MPPC LED 450/450 3700/1 25/840 EPF	A	25	3700	<19	5	●
SUR1133EPF	SIRIUS MPPC LED 450/450 4800/1 44/840 EPF	A	25	3700	<19	5	●
SUR1243EPF	SIRIUS MPPC LED 450/450 7100/1 65/840 EPF	A	65	7100	<19	5	●
SUR1151EPF	SIRIUS MPPC LED 1020/250 6500/1 57/840 EPF	B	57	6500	<19	6	●

Light and power output tolerance ± 10%

***Inactinic and hybrid light***

CODE	REFERENCE	Type	P (W) White	Emitted flux White (Lm)	P (W) Inactinic	Emitted flux Inactinic (Lm)
<b>Hybrid version 4000 K + 590 nm (inactinic amber) - OPMI - Opal PMMA diffuser</b>						
SUR1268EPF	SIRIUS OPMI YE/W 450/450 3000/3000/1 70/590/840 EPF	A	30	3000	40	3000
<b>Version 590 nm, amber - OPMI - Opal diffuser PMMA</b>						
SUR1269EPF	SIRIUS OPMI YE LED 450/450 3000/1 35/590 EPF	A			40	3000
<b>Hybrid version 4000K + 620 nm (inactinic red) - OPMI - Opal PMMA diffuser</b>						
SUR1128EPF	SIRIUS OPMI WR LED 450/450 2500/900 620/840 EPF	A	30	4000	40	900
<b>Version 620 nm, red - OPMI - Opal diffuser PMMA</b>						
SUR1154EPF	SIRIUS OPMI LED 450/450 1200/1 50/620 EPF	A			60	1200

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/](http://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.

## UE Declaration of Conformity

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

**CERTIFIES,**  
under its own responsibility, that the ISOONE luminaires **SIRIUS**

SUR1078EPF	SUR1003EPF	SUR1133EPF	SUR1268EPF	SUR1154EPF
SUR1084EPF	SUR1080EPF	SUR1243EPF	SUR1269EPF	
SUR1152EPF	SUR1132EPF	SUR1151EPF	SUR1128EPF	

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 electromagnetic 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 electrical lighting and similar equipment.
EN 61000-3-2 : 2019	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 $\leq 16$ A per phase and not subject to conditional 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.
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**RESTRICTION OF DANGEROUS SUBSTANCES**

2011/65/UE (08/06/2011)	European directive « RoHS ».
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Certificate issued on March 15<sup>th</sup> 2024

President, Frédéric Colombo