

TYPE OF PRODUCTS

Recessed LED luminaire IP65 for operating theatre, access from below. Low luminance optics, CRI over 85. Xe54 allows the lighting of operating theatre according to the EN12464 standard. Installation in false ceilings with cut-out. Slim for an optimal aesthetic integration into the architecture.

MECHANICAL CONSTRUCTION

Luminaire structure made of 0,8mm steel. Powder coated with KilBac white RAL 9003, certified qualicoat class 1 and antibacterial. The flat return of the housing allows an optimal application of the seal during installation. Lower frame in aluminium white lacquered, screwed on the luminaire structure through 6 stainless steel screws, closed by overlapping.

LED MODULES

Zagha 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. Low chromatic distortion : 3SDCM. Colour rendering index over 85. Expected luminous flux : L90 at 50.000 h.

OPTICS

Optical unit made of a white lacquered aluminium frame, a transparent polycarbonate cover plate and an internal diffuser with three-dimensional microprisms. This ensures high mechanical strength combined with a UGR lower than 19. Moreover, since the optics are smooth on the outside, soiling is very limited, and cleaning is easy.

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.

POWER SUPPLY

Luminaires supplied with electronic dimmable power supply (push button and DALI) from European brand, nominal voltage 220/240 V 50/60 Hz. Access to the luminaire from below. Reference ambient temperature : 20°C / 68°F. Operating temperature range : 5 to 25°C / 41 to 77 °F.

INSTALLATION

Installation of the housing in false ceiling with cut-out from 13 to 60 mm :

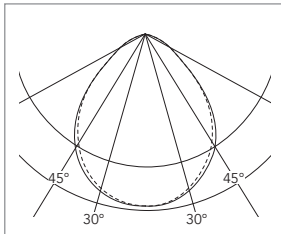
- **By clamping** ISOFLEX waterproof (supplied with the luminaire), which allow to maintain watertightness.
- **By suspension** with threaded rods (not supplied) fixed to the housing.

WIRING

Power supply via PG13 cable gland, connection to a 5-pole automatic terminal block (Phase, Neutral, Earth, D1, D2).

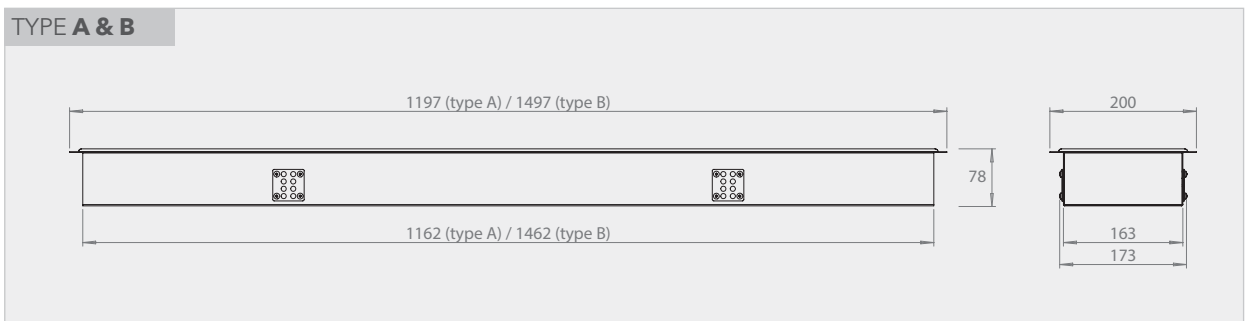


PHOTOMETRY



DIMENSIONS (mm)

TYPE A & B



REFERENCES AND FEATURES

CODE	REFERENCE	Type	Cut-out (mm)	P (W)	Emitted flux (Lm)	Weight (Kg)
PRPC optics - Polycarbonate micro-prism diffuser						
EDO2164GDA	Xe54 MPPC 1197/200 6600/1 65/840 GDA	A	180x1180	65	6600	7
EDO2292GDA	Xe54 MPPC 1197/200 7800/1 86/840 GDA	A	180x1180	86	7800	7
EDO2166GDA	Xe54 MPPC 1497/200 8200/1 75/840 GDA	B	180x1480	75	8200	9

Light and power output tolerance $\pm 10\%$

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.

Xe54_LED

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 **Xe54_LED**

EDO2164GDA EDO2166GDA
EDO2292GDA

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 ≤ 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 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.

RESTRICTION OF DANGEROUS SUBSTANCES

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

Certificate issued on March 15th 2024

President, Frédéric Colombo