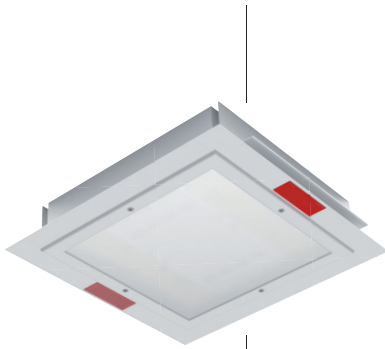


DRACO Ex_D



TYPE OF PRODUCTS

Recessed and compact cleanroom luminaire with LED modules, IP65, access from below, suitable for use in areas where an explosive atmosphere due to dust is unlikely and for a short time.
ATEX classification : II 3D Ex tc IIIC T85°C De.

MECHANICAL CONSTRUCTION

Luminaire structure made of 0.8 mm steel, LaserWeld waterproof assembling technology, powder coated with KilBac white RAL 9003, certified qualicoat class 1 and antibacterial. White lacquered aluminium frame fixed to the housing by 4 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 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 70.000 h.

Light spectra : white 4000K, white gradation (TW), inactinic amber 590 nm, inactinic red 640 nm.

OPTICS

- OPVR : laminated glass 2+2 opal.

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.

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% H₂O₂ solution.

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).

POWER SUPPLY

220-240V / 50-60Hz.

INSTALLATION

Recessed in cut-out ceiling, mounted through a clamping plate.

WIRING

Inside the luminaire with an ATEX cable gland and a 3- or 5-pole terminal strip, without the possibility of re-plugging.



OPTIONS

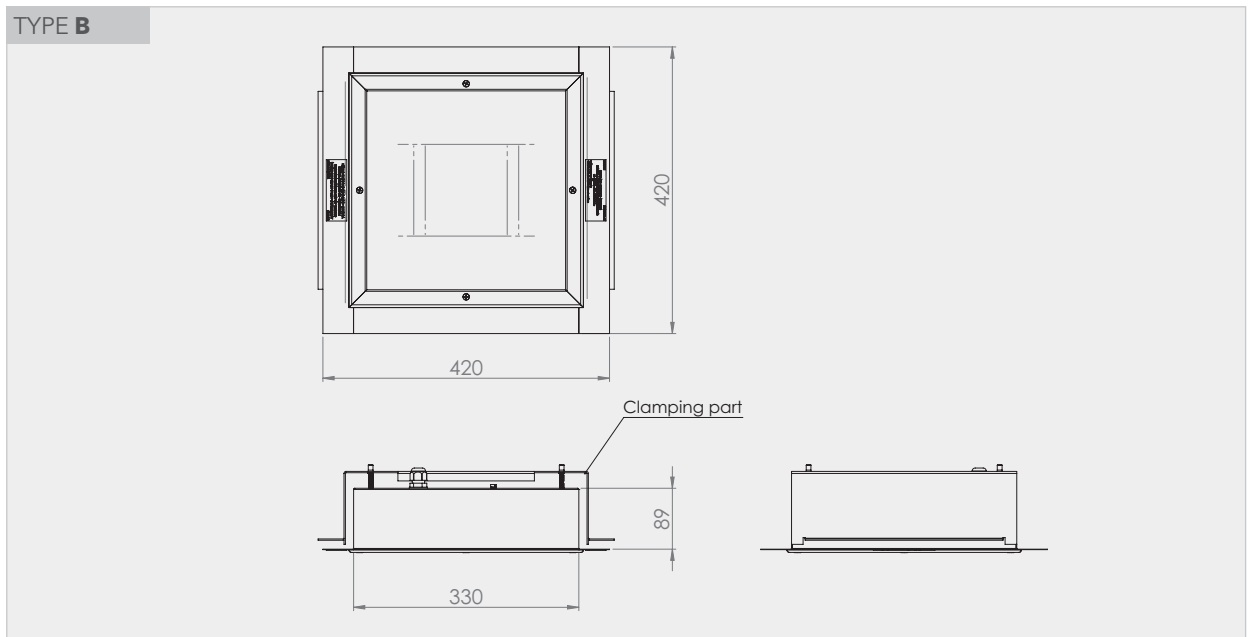


KS3 emergency kit

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

DIMENSIONS (mm)

TYPE B



REFERENCES AND FEATURES

CODE	REFERENCE	Cut-out (mm)	P (W)	Emitted Flux (Lm)	Weight (Kg)
OPVR optics - II 3D Ex tc IIIC T85°C De					
EDO2330EPF	DRACO Ex-e D OPVR 420/420 3500/3 28/840 EPF	350x350	28	3500	6
Hybrid - 590nm amber inactinic light and white Light - OPVR optics					
EDO2331EPF	DRACO Ex-e D OPVR 420/420 2400/3500/3 75/590/840 EPF	350x350	75	2400 (590nm) +3500 (4000K)	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.

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 **DRACO Ex_D**

EDO2330EPF

EDO2331EPF

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

SECURITY

2014/34/UE	Equipment and protective systems intended for use in potentially explosive atmospheres.
EN 60079-0 : 2018	Explosive atmospheres - Part 0 : General requirements.
EN 60079-31 : 2014	Explosive atmospheres - Part 31 : Equipment dust ignition protection by enclosure « t » .

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.
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RESTRICTION OF DANGEROUS SUBSTANCES

2011/65/UE (08/06/2011)	European directive « RoHS ».
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Certificate issued on May 15th 2023

President, Frédéric Colombo