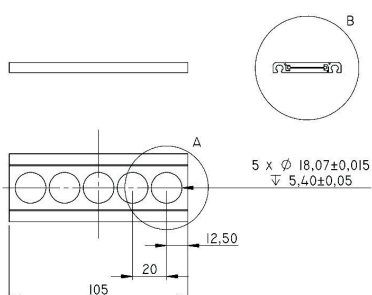
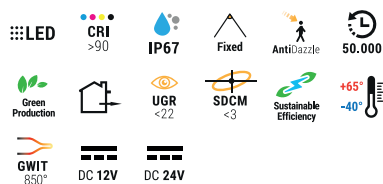
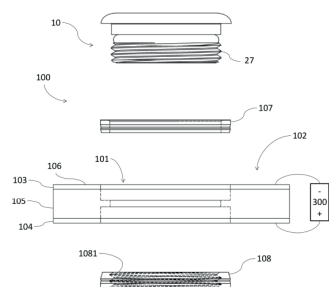


CALIPSO UV



Exchangeable led bulb



OPTIONAL

PROTECTIVE GLASS: IP46 rating

COMPLIANCE



CERTIFICATIONS / POWER SUPPLY COMPLIANCE CHOICES



Il pannello LED UV-C protetto da brevetto ha una lunghezza di 105 mm ed è dotato di 5 diodi emettitori di luce UV-C ad alta potenza. È possibile collegare più moduli in fila per una lunghezza estesa a seconda dell'applicazione specifica.

Applicazioni tipiche:

- Purificazione dell'aria
- Purificazione dell'acqua
- Disinfezione delle superfici
- Disinfezione dei dispositivi medici
- Disinfezione degli elettrodomestici
- Prodotti alimentari e bevande

Caratteristiche principali:

- Costruzione sottile (spessore 6 mm)
- Senza mercurio
- Opzione per lampadine intercambiabili
- Lunga durata
- TCO inferiore rispetto alle lampadine LP

Alloggiamento: alluminio pressofuso

Riflettore: alluminio anodizzato

LED: risparmio energetico L80/B10/F10 - durata 50.000 h - temperatura di lavoro da -40°C a 65°C

LED patent protected UV-C panel has a length of 105 mm and is fitted with 5 high-power UV-C light emitting diodes. Multiple modules can be connected in a row for extended length depending on the specific application.

Typical applications:

- Air Purification
- Water Purification
- Surface Disinfection
- Medical Device Disinfection
- Appliance Disinfection
- Food & Beverage

Key features:

- Slim construction (6 mm thickness)
- Mercury free
- Option for exchangeable bulbs
- Long service life
- Lower TCO compared to LP bulbs

Housing: die-cast aluminum

Reflector: anodized aluminum

LED: reduces energy consumption L80/B10/F10 - 50.000 hrs lifetime - working temp -40°C to 65°C

! Beam angles, optics tailored for specific projects, asymmetric effects, special lenses, opal diffusers, reflector RAL color (if different from white), and the use of anti-glare accessories collectively contribute to variations in total lumen flux compared to the technical sheet data.

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SPECIFICATIONS

ONE COMPLETE MODULE WITH 5 LEDs:

LEDs are tested at a drive current of 350 mA, 20 ms single pulse at 25° C (junction) and placed into BINs

UV-C LED SPECIFICATION EXAMPLE:

FLUX BIN	MIN. FLUX (MW) 350 MA, 25°C	MAX. FLUX (MW) 350 MA, 25°C	MIN. FLUX (MW) 500 MA, 25°C	MIN. FLUX (MW) 650 MA, 25°C	MIN. FLUX (MW) 800 MA, 25°C
CE	40	45	56	74	90
(LUMINUS XST- 3535-UV)					

MODULE WITH 5 LEDs	TYPICAL DATA
Wavelength	270-280 nm
FWHM spectrum	10 nm
Radiation angle of each LED	60 degrees (circular)
UV-C radiation power	160 mW (5x32mW)
32 mW (at 500 mA, Tj app 60°C)	50 mW (at 500 mA, Tj app 25°C)
Number of LEDs pr module	5 pcs
Power consumption total	15 W
Drive current	2,5 A (5x 500 mA)
Voltage across panel	6V
Panel material	Aluminium
RoHS and REACH	Compliant
Expected LED Life time	+12.000 hours

NOTE 1

Regardless the application specifications attention needs to be on thermal management including ambient and surface temperature. It is essential to remove the dissipated heat (e.g. using cooling fan) to limit temperature of the panel and junction of the light emitting diodes. Each module with 5 LEDs typically generates 15 Watt that must be conducted away.

NOTE 2

Light emitting diode lifetime is a function of drive current. Sustained operation at absolute maximum current of 800 mA will result in a reduction of device lifetime compared to typical forward drive currents (350 mA-500 mA). Actual device lifetimes will also depend on junction temperature.

NOTE 3

The LEDs can without harming the lifetime be turned on/off indefinitely which can result in a significantly extended service lifetime depending on the actual use pattern.

ELECTRICAL CONNECTIONS

MULTIPLE MODULES CAN BE CONNECTED

CALIPSO UV:

1 x 5 LED (in parallel)
Tracy standard connector

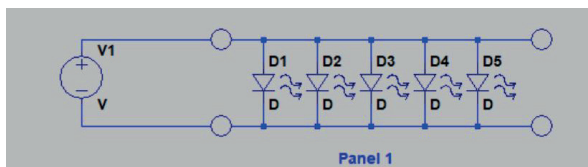


CALIPSO UV:

1 x 5 LED (in parallel)
Single wire connector from each side



Schematics



COMPLIANCE



CERTIFICATIONS / POWER SUPPLY COMPLIANCE CHOICES



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MODULAR – ANY LENGTH

Multiple modules can be connected in a row for extended length depending on the specific application. LEDs are connected in parallel in each module and the modules are connected in series.

Example with 3 modules:

- 15 LEDs total
- Total length of connected modules 315 mm (3x105 mm)
- Total drive current: 2,5A at 18 Volt

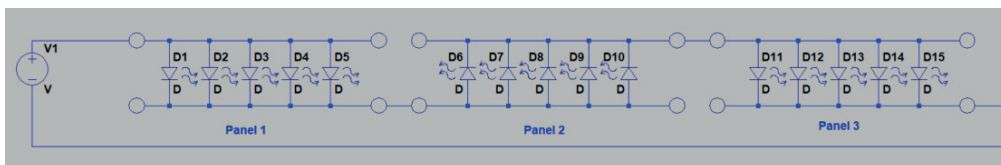


CALIPSO UV:

3 x 5 LED (in parallel)



Schematics



COMPLIANCE



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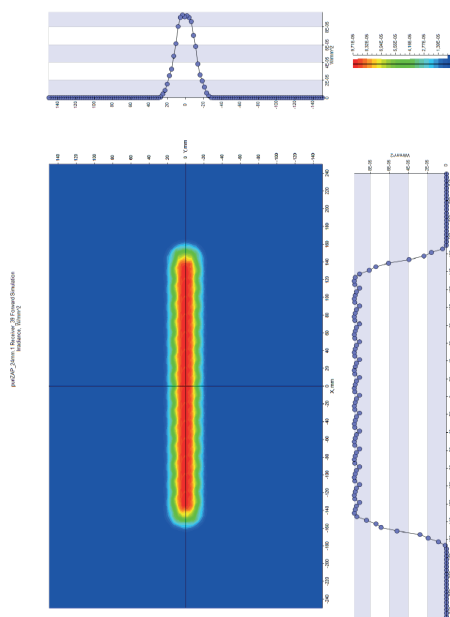
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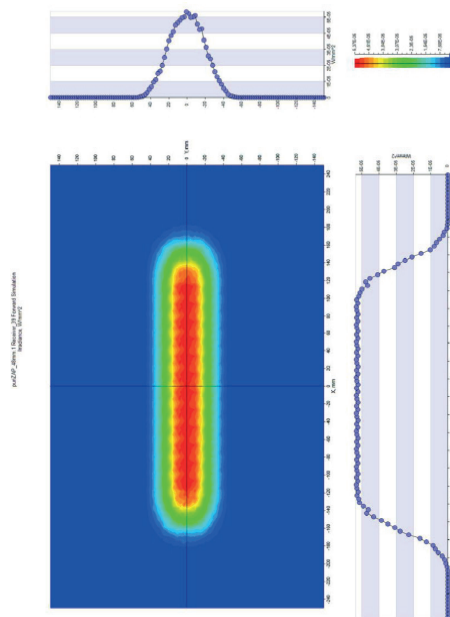
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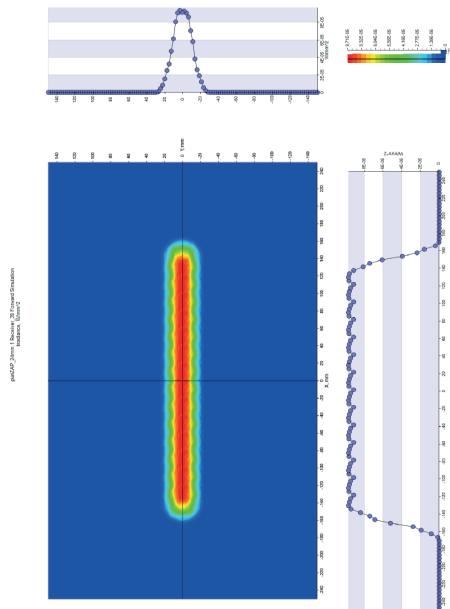
Radiation pattern from 3x Modules - 3D simulation
(averaged data) 12 mm above panel installation.



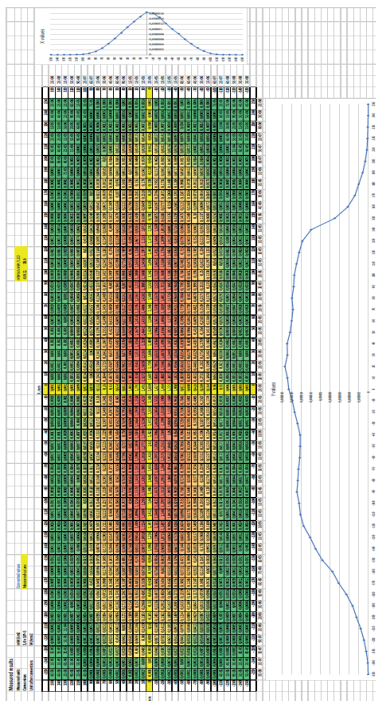
Radiation pattern from 3x Modules - 3D simulation
(averaged data) 36 mm above panel installation.



Radiation pattern from 3x Modules - 3D simulation
(averaged data) 100 mm above panel installation.



Raw data - Example of measured data from 3 x Module
- Measured 100 mm above panel installation



COMPLIANCE



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