

GENERAL:

It is necessary to check the illumination conditions in order to carry out dye penetration tests and fluorescent magnetic particle inspection in order to see the readings correctly.

For dye penetration testing and for magnetic particle inspection the irradiance received by the surface under inspection must be:

- greater than 10 W/m² according to standards NF EN ISO 3059, NF EN ISO 9934-1 / 9934-2 / 9934-3
- greater than 15 W/m² according to specific specifications (aeronautics and railways)

The visible stray light must be less than or equal to 20 Lux.

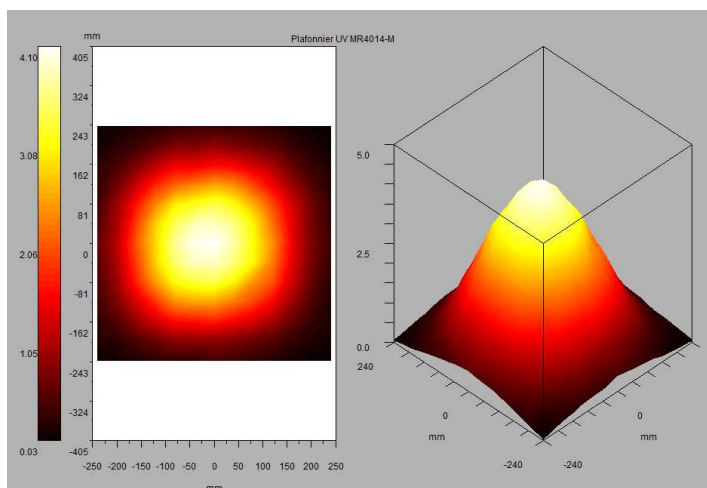
This illumination level can be obtained using either ceiling light fittings, or manual projectors.



TECHNICAL DATA of the standard module 31PLED-16:

Frame temperature/illuminating area after 1 hour	30° C/28° C
Type of cooling	Air fan
Electrical power supply	230 V AC
Voltage	
Phase (1)	PNG
Frequency	50/60 Hz
Overall dimensions (L x W x H) excluding control unit	270 x 270 x 70 mm
Equipment mass	3.8 kg
Typical irradiance after 15 min (2)	40.9 W/m ²
Typical irradiance after 200 hours (2)	40.8 W/m ²
Typical level of visible light after 15 min (2)	1 lux
Typical visible light level after 200 hours (2)	1 lux
Illuminated area at a distance of 400 mm in mW/cm ²	Curve below
Typical visible lighting (2)	> 2000 lux

- (1) P/Phase - N/Neutral - G/ground
 (2) Measurement at a distance of 400 mm in continuous



FEATURES of the 31PLED-16

- IP 54 sealing
- Sustainable energy system using LEDs
- Light weight
- No heating time

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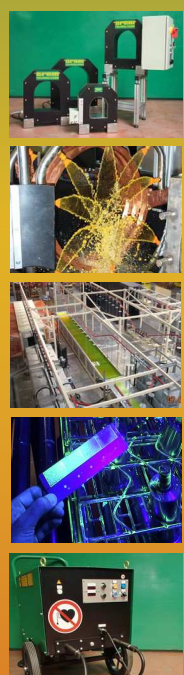
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THE BASIC MODULE 31PLED-16 INCLUDES 16 LEDs. THERE ARE DIFFERENT VERSIONS.



Lighting	Number of LEDs	Dimensions (mm)	Diagrammatic view
31PLED-4	1 x 4	145 x 145	
31PLED-8	2 x 4	145 x 270	
31PLED-16	4 x 4 (Standard module)	270 x 270	
31PLED-24	6 x 4	270 x 395	
31PLED-32	8 x 4	270 x 520	



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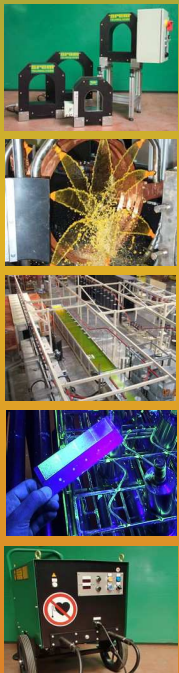
RECOMMENDATION:

Directive 2006/25/EC of 5 April 2006 concerning changes in the risks relating to artificial optical radiation was transposed into French Law by Order 2010-750 of 2 July 2010.

To comply with the limit values concerning exposure to UV radiation, it is recommended to adhere to the following rules:

- wear anti-UV goggles suitable for non-destructive testing by magnetic particle inspection or fluorescent dye penetration (white)
- Wear long clothing giving good body cover. Do not wear fluorescent clothing
- avoid looking directly into the light source, particularly if you are using floodlights

It is the final user's responsibility to ensure the lighting, according to his production constraints, complies with the application principle of the Directive.



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