

EQ CL42 LED Flood 365 / 405**IDH 2804955 / 2804956****PRODUCT DESCRIPTION**

The EQ CL42 LED Flood System is a high intensity flood system specially designed for curing Loctite® UV and Visible Light Cure adhesives. The modular configuration consists of an LED head with connection cable and controller (ordered separately). The system is offered in either 365 or 405 nm wavelengths. Each EQ CL42 head is equipped with 120 high power LED's and integrated reflectors, providing uniform curing across a wide area (100 mm x 100 mm or 4 inches by 4 inches). The expected lifetime of the LED's is more than 20000 hours under normal operating conditions. The system is compatible with manual workstation as well as automated production lines. It can be operated via a footswitch or a PLC and run in either timer or continuous mode.

**Product Properties**

- High UV intensity – Up to 2.5 W/cm²
- LED heads stackable in two directions
- Expected LED life over 20,000 hours (30% intensity decay) with proper handling
- 100% duty cycle
- Instant on/off, no heat up or cool down necessary
- Optimal curing distance: 50 mm
- Compact system with integrated air cooling
- Requires LED Flood Controller, sold separately
- Temperature monitor of LEDs

Benefits:

- Lasts up to 10 times longer than traditional arc lamps
- 100% of the emitted light is within the range of the curing spectra of the adhesive (when compared to Mercury vapor arc lamps)
- Energy efficient, LEDs produce little wasted energy
- Each LED head has been optimized for its specific wavelength (365 nm, 405 nm)
- Air cooling system maintenance free

Technical Data:

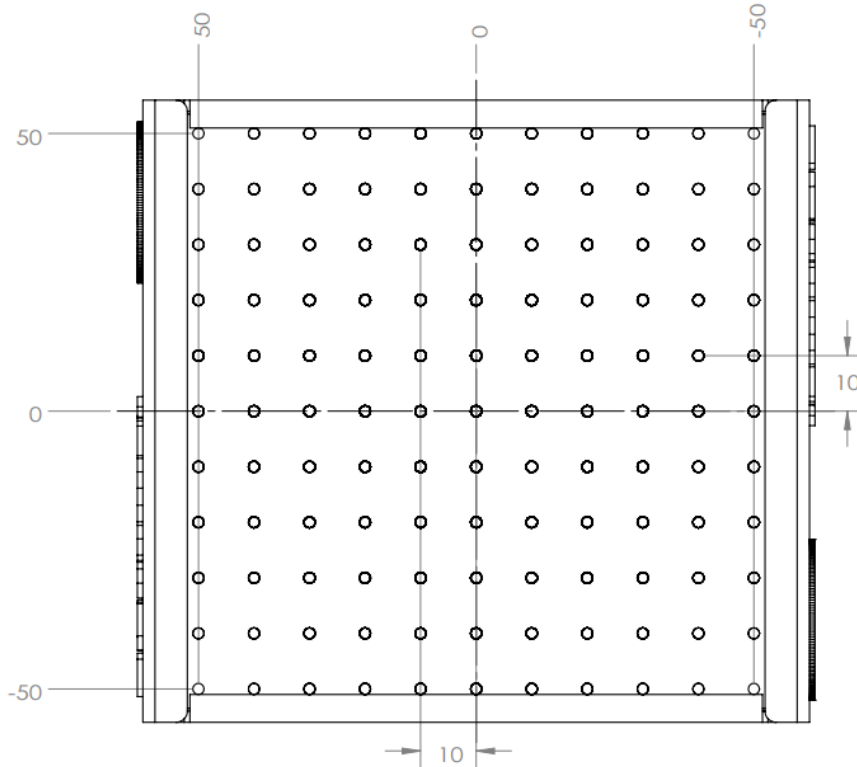
- Recommended working distance:
25 – 75 mm
- Wavelength: 365, 405 nm
- Peak Intensity (Distance 50 mm):
>1700 mW/cm² for 365 nm
>2600 mW/cm² for 405 nm
- Evenness: Tolerance <30% (Distance 50 mm)
- Noise level: <70 dBA (Distance 1 m)
- Weight: 1.5 kg



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Intensity is measured at 121 spots, see diagram on the follow picture. Measuring device: Radiometer / Dosimeter UV-A/B and UV-V, see optional accessories.



Evenness mapping layout

$$\text{Evenness} = (\max - \min) / (\max + \min)$$

Optional Accessories:

Item	Description	IDH#
1	EQ CL42 LED Flood Head, 365nm	2804955
2	EQ CL42 LED Flood Head, 405nm	2804956
3	EQ CL42 LED Dual Controller	2804957
4	EQ CL42 Connection Cable for Head	N/A
5	EQ LED Chamber	2804959
6	Footswitch	97201
7	EQ PM20 UV AB Radiometer/Dosimeter	2436353
8	EQ PM20 UV VIS Radiometer/Dosimeter	2436352
9	UV & Visible Light Safety Glasses, Orange	717763

Items supplied:

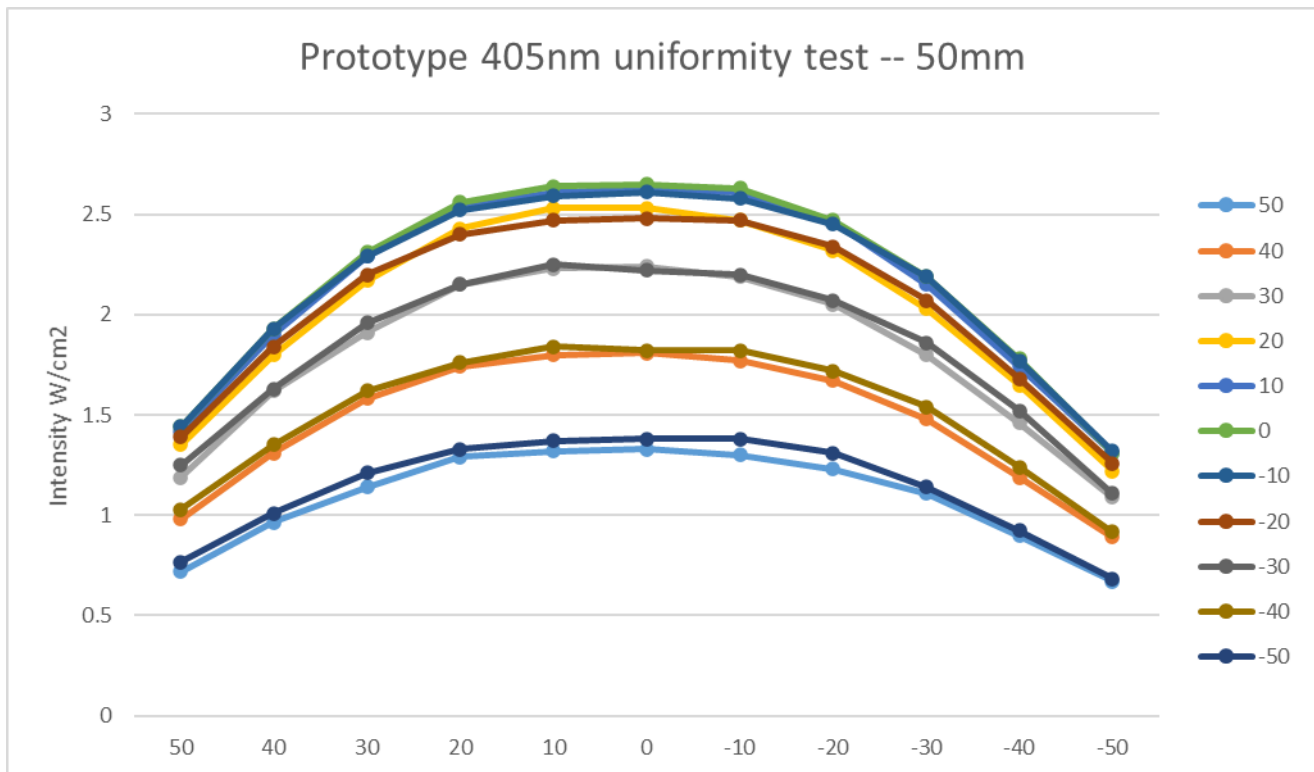
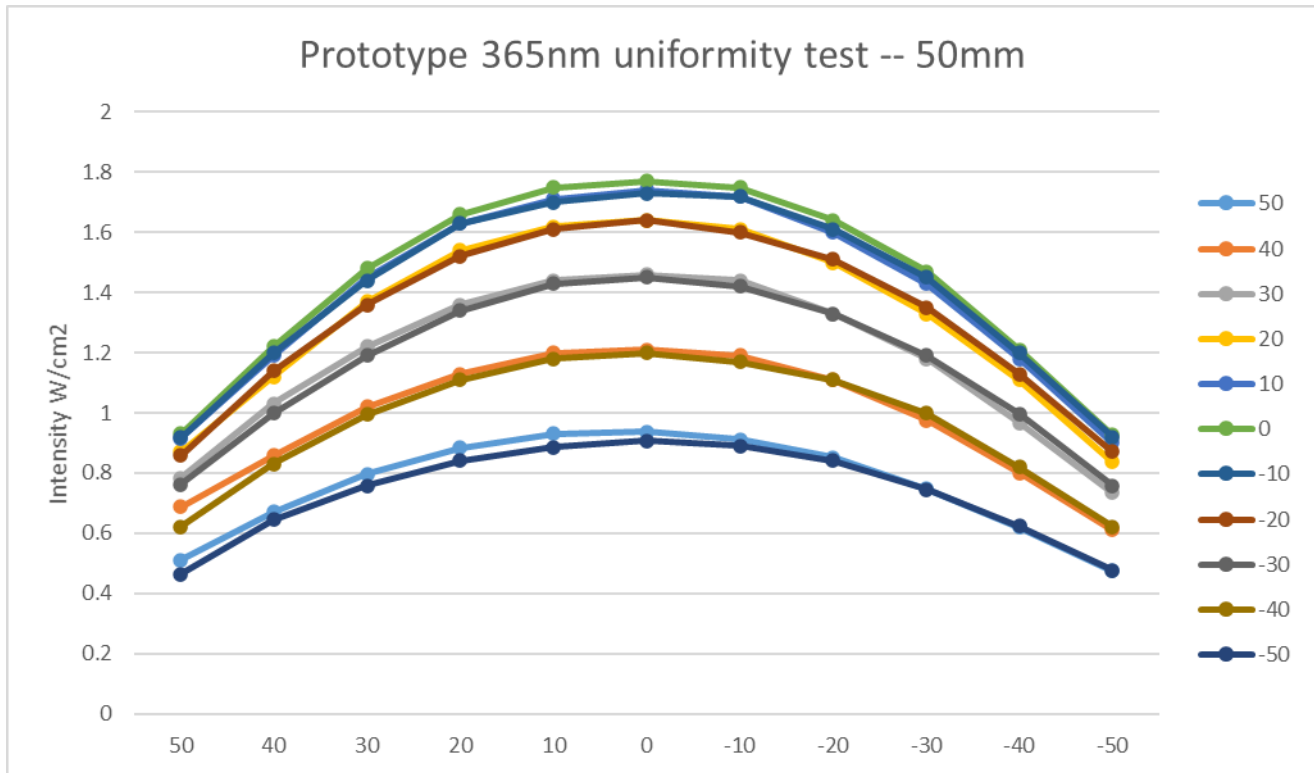
- EQ CL42 LED Flood 365/405nm
- Connecting Cable Head to Controller

Irradiance measurement layout, see data at following page.

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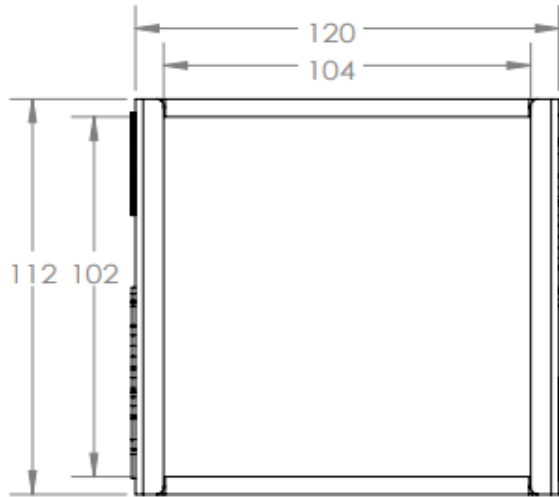
Irradiance Data:



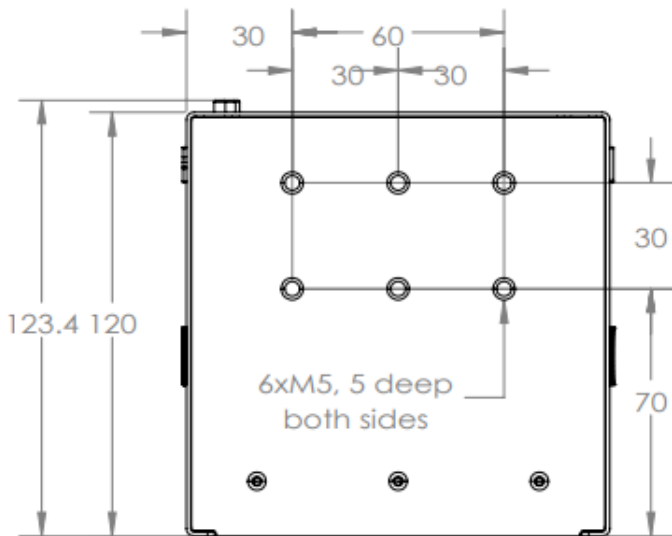
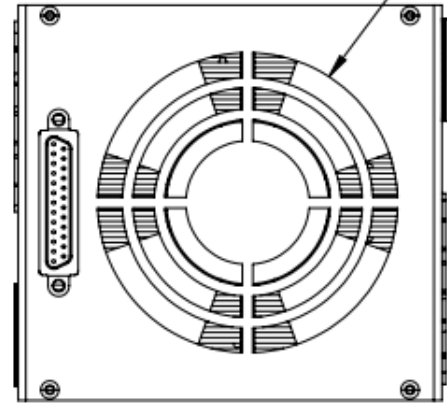
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Dimensions:



Air flow, intake/exhaust on top
Minimum clearance: 90mm



Note
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