

L44™

4" × 4" UV LED Flood Curing Lamp



4" × 4"
curing area

3,000
mW/cm² peak @ 10
mm (HP)

80 / 144
LEDs (SP / HP)

>20,000 h
rated LED life

OVERVIEW

Incure L44™ delivers uniform, high-intensity UV LED flood curing over a 4" × 4" (100 × 100 mm) area — up to 3,000 mW/cm² at 10 mm in High Power (HP) form. Full intensity at switch-on, timer or continuous operation and foot-switch or PLC triggering make it ideal for benchtop batch curing. It is the largest L-Series™ model that fits a C-Series cure chamber.

KEY FEATURES

- Even exposure: 78% uniformity across the area at 2"
- Instant on/off — no warm-up, cool-down or shutter
- LCD front panel with foot-switch and PLC digital I/O
- Forced-air cooling with louvers
- SP 1,500 / 1,800 · HP 2,500 / 3,000 mW/cm² (365 / 405 nm, 10 mm)
- Timer or continuous mode, switchable on the front panel
- Recommended curing distance 1" to 3"
- Fits C131C, C131D and C141C cure chambers



IRRADIATOR

4" × 4" emitting window · 80 (SP) / 144 (HP) LEDs

Mercury-free LED array in a compact housing with carry handles and mounting holes, connected to a separate power supply with LCD control panel.

ORDERING INFORMATION

Part number: L44-[SP/HP]-[wavelength], e.g. L44-HP-365

Chamber: C131C / C131D / C141C

Wavelength set: at the factory, one per unit

Wavelength: 365 / 385 / 395 / 405 nm

Power: 100–240 V, 50/60 Hz

Lead time: 3–4 weeks ARO

SPECIFICATIONS

Parameter	L44™
Type of lamp	UV LED flood
Irradiation area	4" × 4" (100 × 100 mm)
LED count (SP / HP)	80 / 144 LEDs
Peak @ 10 mm, 365 nm (SP / HP)	1,500 / 2,500 mW/cm ²
Peak @ 10 mm, 405 nm (SP / HP)	1,800 / 3,000 mW/cm ²
Available wavelengths	365 / 385 / 395 / 405 nm (factory-set, one per unit)
Recommended curing distance	1" – 3"
Static uniformity (part stationary)	78% at 2" distance · 62% at 3" distance
Dynamic uniformity (part moving)	88% at 2" distance · 82% at 3" distance
Operating modes	Timer or continuous, switchable on front panel
Control interface	LCD front panel · foot-switch input · PLC digital I/O
Power input	100–240 V, 50/60 Hz, auto-ranging
Cooling	Forced air, louvers
Expected LED life	> 20,000 hours
Chamber compatible	C131C / C131D / C141C

Irradiance measured at 100% output at the stated working distance. Uniformity = weakest point ÷ strongest point across the curing area (100% = perfectly even). LED life rated under standard operating conditions.

PEAK INTENSITY @ 10 mm

SP · 365 nm	1,500 mW/cm ²
SP · 405 nm	1,800 mW/cm ²
HP · 365 nm	2,500 mW/cm ²
HP · 405 nm	3,000 mW/cm ²

405 nm is higher due to LED die efficiency. SP = Standard Power · HP = High Power.

UNIFORMITY

78% stationary, at 2"	62% stationary, at 3"
88% moving, at 2"	82% moving, at 3"

COMPATIBLE PRODUCTS

C131C / C131D / C141C
C-Series UV cure chambers

Incure L33™
3" × 3" model, same chamber tier

Vison™ UV eyewear
Rated for 365–405 nm output

Singapore

Incure Adhesives Manufacturing Pte Ltd
33 Ubi Ave 3, #04-23 VERTEX Tower B
Singapore 408868 · +65 6270 2188

United States

Incure Inc.
1301 Asheville HWY., Spartanburg,
SC 29303
+1 (860) 748-2979

Contact

support@uv-incure.com
incurelab.com