



L-SERIES™

L44™

4" × 4" UV LED Flood Curing Lamp

Even cure, edge to edge.

4" × 4"
curing area

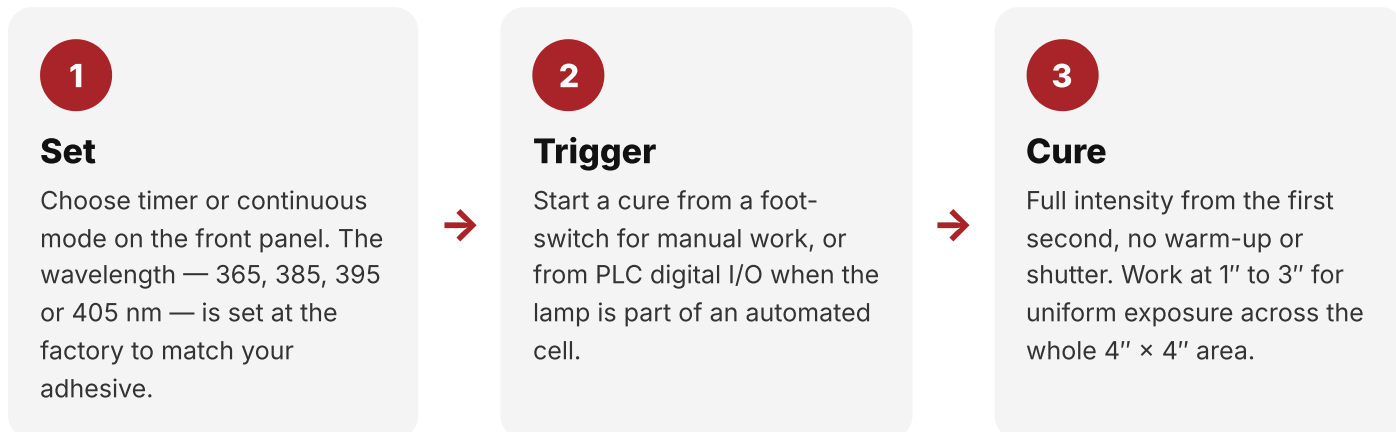
3,000
mW/cm² peak @ 10 mm

365–405
nm wavelengths

20,000 h+
LED life

Cure the whole area at once — evenly.

The L44™ floods a 4" × 4" area with uniform, high-intensity UV, so every part in the batch gets the same dose in the same cycle. Compact enough for the bench, and it fits Incure C-Series cure chambers.



WHY TEAMS CHOOSE IT

- 
Uniform exposure
 78% uniformity across the area at 2" — no shadowing or under-cured edges.
- 
Instant on, instant off
 No warm-up, cool-down or shutter, unlike mercury flood lamps.
- 
High intensity
 High Power: 2,500 / 3,000 mW/cm². Standard Power: 1,500 / 1,800 mW/cm² (365 / 405 nm, at 10 mm).
- 
20,000+ hour LED life
 Mercury-free, with no bulb replacement or recalibration in normal service.

FITS YOUR PROCESS

C-Series chambers

C131C, C131D and C141C

Foot-switch

Hands-free manual curing

PLC digital I/O

Trigger from upstream equipment

Universal power

100–240 V, 50/60 Hz, auto-ranging

WHERE IT WORKS

Electronics

Conformal coating, underfill, SMD

Medical devices

Catheters, sensors, sealing

Optics

Lenses, prisms, filters

Conveyor lines

PLC-synchronised inline cure

Coatings & encapsulants

Many parts per cycle

R&D labs

Qualification and dose studies

Power and evenness, measured

Peak irradiance at 10 mm by power version and wavelength, and how evenly that light lands across the whole area at 2" and 3".

PEAK INTENSITY @ 10 mm

SP · 365 nm 1,500



SP · 405 nm 1,800



HP · 365 nm 2,500



HP · 405 nm 3,000



mW/cm² at 100% output. 405 nm is higher due to LED die efficiency. SP = Standard Power · HP = High Power.

UNIFORMITY (WEAKEST ÷ STRONGEST POINT)

Stationary, 2" 78%

Stationary, 3" 62%

Moving, 2" 88%

Moving, 3" 82%

Recommended curing distance: 1" – 3".



THE IRRADIATOR

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

A dense, mercury-free LED array with forced-air cooling and louvers. Carry handles and mounting holes make benchtop or chamber set-up quick.

KEY SPECIFICATIONS

Irradiation area	4" × 4" (100 × 100 mm)	LED count (SP / HP)	80 / 144
Peak @ 10 mm, 365 nm	1,500 / 2,500 mW/cm ²	Peak @ 10 mm, 405 nm	1,800 / 3,000 mW/cm ²
Wavelengths	365 / 385 / 395 / 405 nm	Curing distance	1" – 3"
Operating modes	Timer & continuous	Control	LCD panel · foot-switch · PLC
Power input	100–240 V, 50/60 Hz	Cooling	Forced air, louvers
LED life	> 20,000 h	Chamber	C131C / C131D / C141C

UV LED vs mercury flood lamps

	Incure L44™ UV LED	Mercury arc flood lamp
Start-up	Full intensity at switch-on	Warm-up and cool-down needed
Exposure control	Switch LEDs on/off — no shutter	Mechanical shutter
Environment	Mercury-free solid state	Contains mercury
Life	>20,000 hours	Regular bulb replacement
Maintenance	No recalibration in normal service	Output drifts as the bulb ages

ORDERING

L44-[SP/HP]-[wavelength]

e.g. L44-HP-365 · SP = Standard, HP = High Power

Wavelength: 365 / 385 / 395 / 405 nm **Set:** at factory, one per unit

Chamber: C131C / C131D / C141C **Power:** 100–240 V auto

Lead time: 3–4 weeks ARO

NEED A BIGGER AREA?

L88™

8" × 8" flood — four times the area, with RS232 for production lines and a CDM™ conveyor option.

Talk to an Incure curing specialist

Tell us your curing area, intensity and wavelength. We'll confirm the model, availability and lead time.


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