

ECE 5000

UV Light-Curing Flood Lamp System

- Powerful UV light-curing lamps (>200 mW/cm²)
- System contain a mercury UVB short-wave bulb
- 5" x 5" (12.7 cm x 12.7 cm) flood lamp
- 100% shielding with safety interlock
- Shutter that can be actuated by foot pedal or PLC
- Easy-to-adjust tray height
- Lamp turn-off when the light shield door is open
- Bulbs are warranted for 2,000 hours*
- Reduced light leakage with the new ECE light shield design
- Redesigned mounting plate for the ZIP shutter reduces light leakage
- Containment of non-passive lamp failure

* Warranty covers bulb ignition only. Intensity is not warranted.

Now available through Carbon 3D and Dentca, the Dymax ECE-5000 is a UV flood-lamp curing system ideal for curing and post-conditioning 3D-printed parts. The system offers high-intensity curing over a 5" x 5" (12.7 cm x 12.7 cm) area. The system is simple to operate and comes complete including ECE-5000 UV lamp, ZIP™ shutter, and light shield. The system comes standard with a mercury UVB shortwave bulb and offers consistent intensity over the 2,000 hour bulb warranty.

Specifications	
Part Numbers	43155 North American Version (Cord with 120V Plug) 43156 No Power Cord* 43157 Asian Version (Type G Power Cord)
Typical Initial Output Intensity at UVA (365 nm)**	>200 mW/cm ²
Curing Area	5" x 5" (12.7 cm x 12.7 cm)
Working Distance	2" - 6" (5.08 cm - 15.24 cm)
Reflector Housing Dimensions	6.75" L x 6.75" W x 8" H (17.2 cm x 17.2 cm x 20.3 cm)
Power Supply Dimensions	12" L x 16" W x 4.25" H (30.5 cm x 40.6 cm x 10.8 cm)
Bulb Warranty	2,000 hours (no intensity warranty, only bulb ignition)
Power Requirements	100 - 240 VAC +/-10% Single Phase 47 - 63 Hz
Replacement Bulb Part Number	36970 Mercury (UVB, Shortwave)
Recommended Accessories	41590 ACCU-CAL™ 160 Radiometer This radiometer is simple to operate and offers repeatable measurement of curing energy. It can measure UV light emitted from UV flood system, and UV conveyors.

* For customer in Europe, the appropriate power cord will be added

** Intensity readings vary widely depending on the make and model of the radiometer.



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Figure 1. Spectral Output for Dymax 400 Watt Mercury Bulb

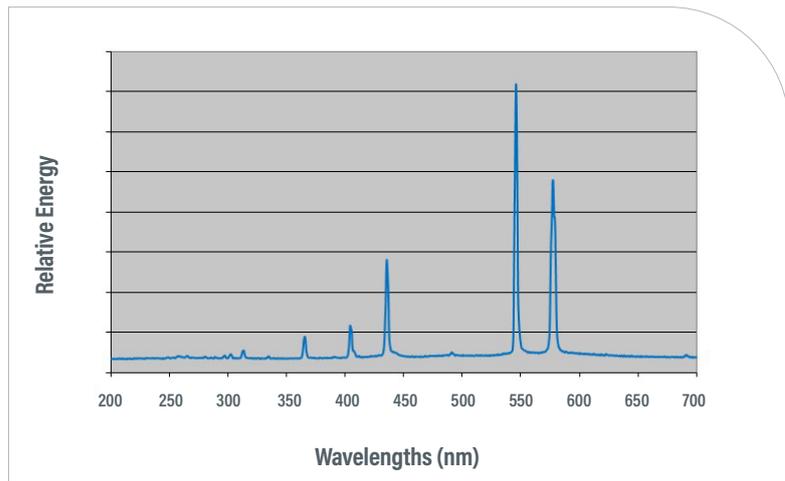
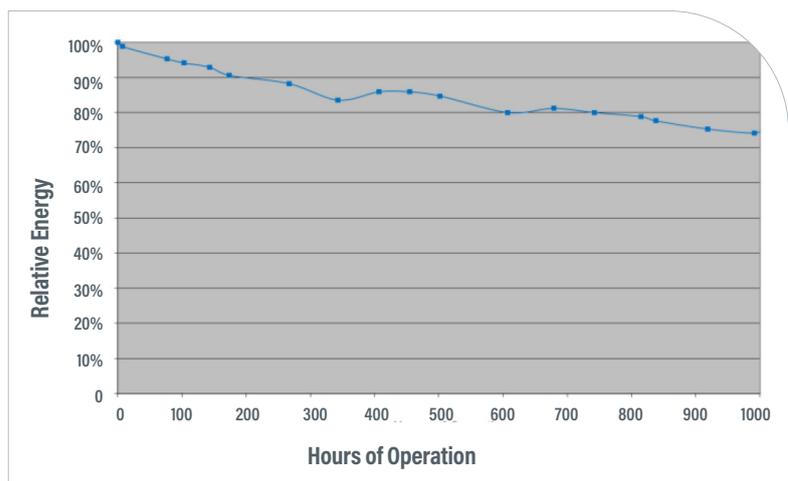


Figure 2. Typical 400 Watt Mercury Bulb Degradation



The intensity generated by Dymax flood systems is very consistent. Power on/off cycle's temperature, humidity, and operating environment all have an effect on intensity degradation and will affect bulb life.



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