

LightHouse F10 and F6

Deep Focus Housings Reduce IR and Optimize UV



LightHouse F10 and F6
deep focus housings



The Original F10 LightHouse



The New F6 LightHouse

With over 25 years experience in manufacturing custom UV Curing equipment, UV Process Supply is proud to introduce the next generation in UV arc lamp housing design.

In 1996 UVPS engineered the first 10-inch focus housing, specifically developed for 3 dimensional curing applications. However, in creating this powerful tool for our 3D customers we also discovered that this technology provided two important benefits that were most sought after by all UV printers alike: Less Heat and More UV!

Advantage 1: The unique reflector geometry of the 10 inch focus housing, today called the F10, captures and focuses more than 50% additional UV output from the lamp and focuses that energy 10 inches away from the bulb. The energy reflection, or light traces follow a significantly greater vertical path, resulting in better penetration of UV and virtually no loss from shallow angle ray reflection off of the substrates surface.

Advantage 2: By positioning the lamp ten inches away from the substrate IR energy emitted from the lamp is significantly reduced. A standard half ellipse reflector has a shallow focus of only 3.25 inches below the bulb. With the F10 we have tripled that distance while actually increasing UV intensity!

Results Speak for Themselves: We set up a conveyor and tested the same bulb, first from within a 1/2 ellipse housing and then the F10. We expected a significant improvement but even we were shocked by the results. In both the UVA and UVB ranges, we achieved nearly double the intensity. UVA went from 1.43W/cm² to 2.78W/cm² and UVB from 1.31W/cm² to 2.56W/cm². The Dose measurement showed even greater improvement. Running at 35 FPM, UVA went from 0.384J/cm² to 0.965J/cm² and UVB from 0.351J/cm² to 0.923J/cm².

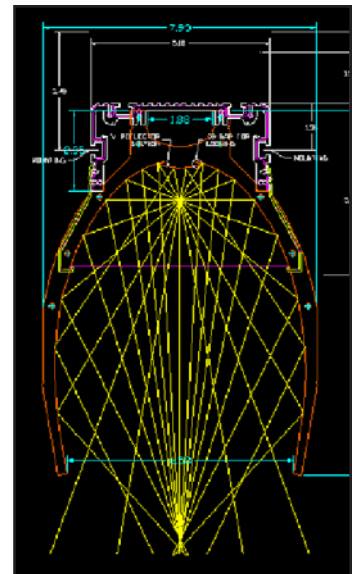
Using the same geometry but in a more compact design, the new F6 was developed to fit the proven F10 technology into the tighter constraints of todays modern printing equipment.

Features

- Custom manufactured at time of order ensures a solution tailored for your application, not a mass production cookie cutter approach.
- Arc lengths from 2 to 96+ inches
- Lamps from 200 to 750 WPI Mercury or Metal Additive (Iron, Gallium, Indium)
- Additional shielding requirements greatly reduced. Housings are positioned only 3/8" above the substrate.

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