

## OPT SERIES Lens Optic

10 x 90°, 25 x 90° and 35 x 85°

### MECHANICAL / SPECIFICATIONS

#### NOMINAL OUTPUT ANGLE\*:

OPT-1090-171F 10 x 90 degrees  
OPT-2590-171F 25 x 90 degrees  
OPT-3585-281F 35 x 85 degrees

#### LENS SHAPE:

OPT-1090-171F Square  
OPT-2590-171F Square  
OPT-3585-281F Rectangular

#### LENS DIMENSIONS - OPTICS:

OPT-1090-171F 20.5mm Sq x 13.9mm high  
OPT-2590-171F 20.5mm Sq x 13.9mm high  
OPT-3585-281F 24mm x 19mm x 10.5 mm high

#### LIGHT TRANSMISSION:

400nm to 900nm >90%

#### LENS MATERIAL:

OPT-1090-171F Polycarbonate  
OPT-2590-171F PMMA  
OPT-3585-281F Polycarbonate

#### UL FLAMMABILITY:

OPT-1090-171F V-2  
OPT-2590-171F HB  
OPT-3585-281F V-2

#### OPERATING TEMPERATURE:

OPT-1090-171F -40°C to +110°C (-40F to +230°F)  
OPT-2590-171F -40°C to +70°C (-40°F to +158°F)  
OPT-3585-281F -40°C to +110°C (-40F to +230°F)

*\*output can vary based on specific LED used with the optic*

### CERTIFICATIONS & RATINGS

RoHS

### FEATURES & BENEFITS

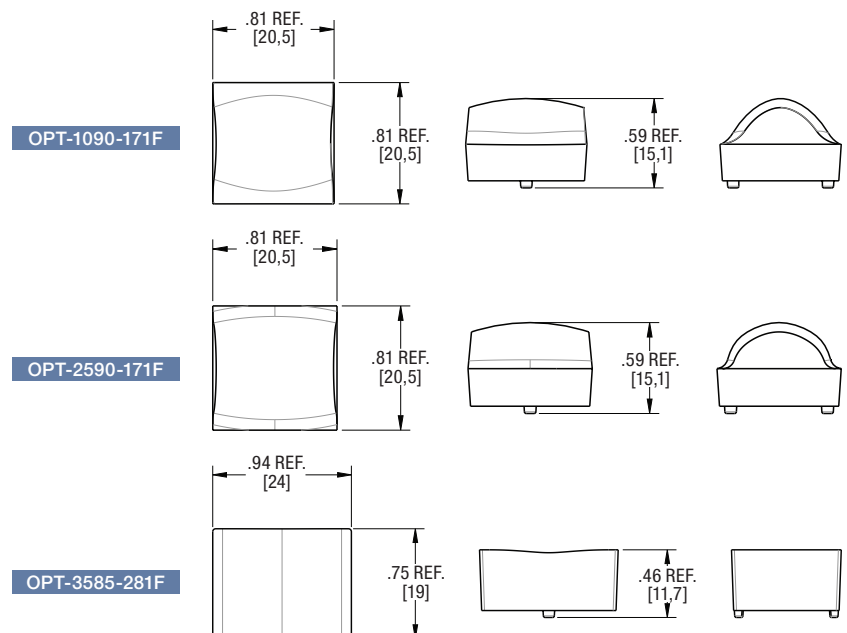
- High transmissivity
- UL rated optic material
- Lens includes locating pins for consistent alignment

### APPLICATION

Dialight OPT Series of TIR optics are designed for optical efficiency with a wide variety of today's common high power LEDs.

- Down light
- Wall wash
- Illumination
- Spot light
- Architectural
- ...and many more

### DIMENSIONS inches [mm]



ORDERING INFORMATION

OPTIC FWHM FOR SPECIFIC LEDS

	Part Number	Description	LED	FWHM*
	<a href="#">OPT-1090-171F</a>	10 x 90 degree optic only	Cree XPE2	30° x 98°
			Cree XP-G2	29°x 97°
			Cree XPL-DH	36° x 99°
	<a href="#">OPT-2590-171F</a>	25 x 90 degree optic only	Cree XPE2	32° x 91°
			Cree XP-G2	34°x 74°
			Cree XPL-DH	38° x 94°
	<a href="#">OPT-3585-281F</a>	35 x 85 degree optic only	Cree XPE2	31° x 78 °
			Cree XP-G2	32°x 75°
			Cree XPL-DH	42°x 97°

\*FWHM equals full width of the optic output to half the maximum (peak) output

PRECAUTIONS

- Handle and Install optics wearing gloves. Skin oils may damage or alter the optical performance of the product
- If needed, clean product with mild soap, water and a soft cloth
- Avoid the use of commercial cleaning solvents, including alcohol on the products.



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