

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 PC LEV1700 KL

OPT-2590-171F PMMA 8N

OPT-3585-281F PC LEV1700 KL

UL FLAMMABILITY:

OPT-1090-171F V-2

OPT-2590-171F HB

OPT-3585-281F V-2

UV RATING:

Opt 1090 / 3585 UL F1

OPT 2590 AMECA

OPERATING TEMPERATURE:

OPT-1090-171F -40°C to +110°C (-40°F to +230°F)

OPT-2590-171F -40°C to +70°C (-40°F to +158°F)

OPT-3585-281F -40°C to +110°C (-40°F to +230°F)

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

CERTIFICATIONS & RATINGS

RoHS

FEATURES & BENEFITS

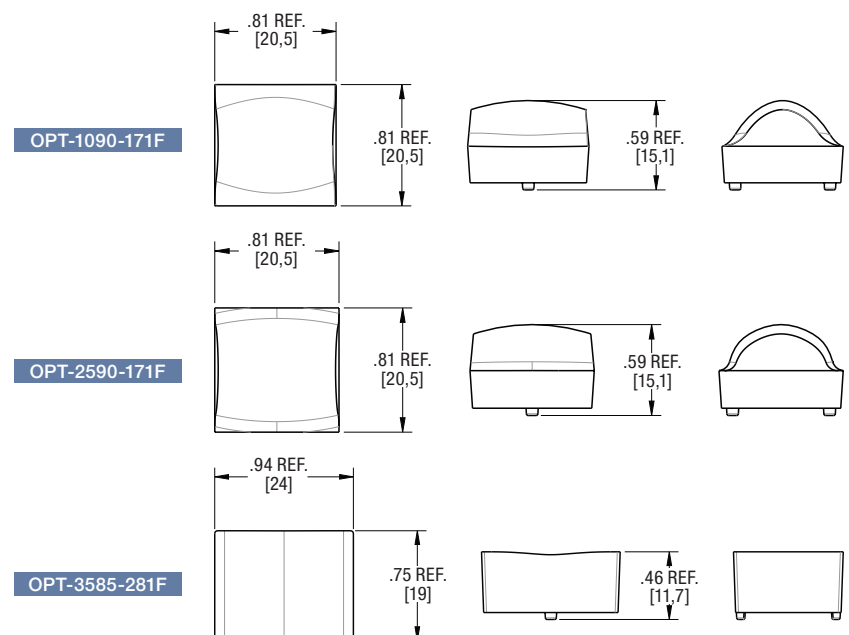
- High transmissivity
- UL rated optic material
- Lens includes locating pins for consistent alignment

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*
	OPT-1090-171F	10 x 90 degree optic only	Cree XPE2	30° x 98°
			Cree XP-G2	29°x 97°
			Cree XPL-DH	36° x 99°
	OPT-2590-171F	25 x 90 degree optic only	Cree XPE2	32° x 91°
			Cree XP-G2	34°x 74°
			Cree XPL-DH	38° x 94°
	OPT-3585-281F	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.

Mouser Electronics

Authorized Distributor

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