

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

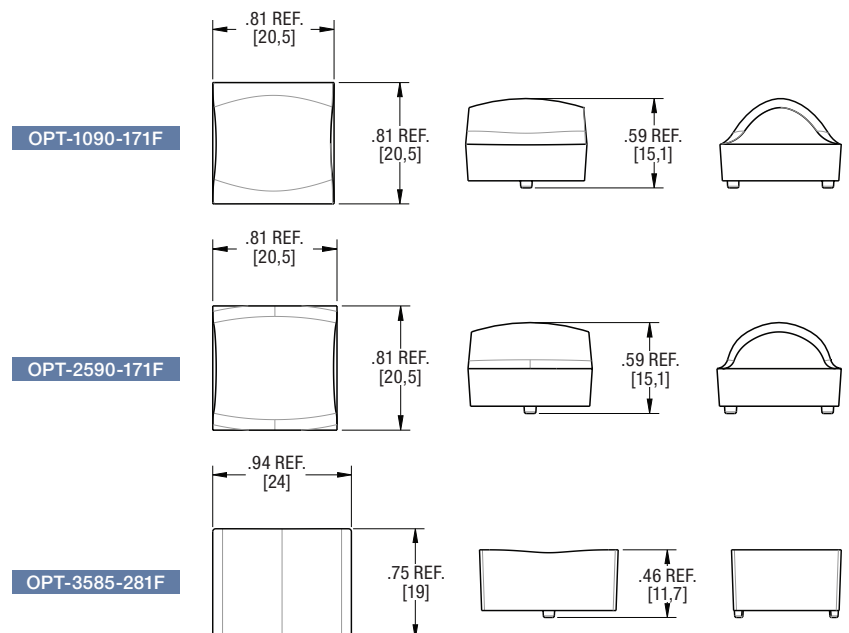
- High transmissivity
- UL rated optic material
- Lens includes locating pins for consistent alignment

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.



Dialight reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.dialightsignalsandcomponents.com

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