



## OPT SERIES

# 21.3mm TIR Optic

10°, 25°, 40°, 60°, 80° and 10 x 45°

### MECHANICAL / SPECIFICATIONS

NOMINAL OUTPUT ANGLE\*:

OPT-0010-014F 10 degrees

OPT-0025-014F 25 degrees

OPT-0040-014F 40 degrees

OPT-0060-014F 60 degrees

OPT-0080-014F 80 degrees

OPT-1045-014F 10 x 45 degrees

LENS SHAPE:

Round

LENS DIMENSIONS - OPTICS:

21.3 mm dia. x 12.45mm high

LIGHT TRANSMISSION:

400nm to 900nm >90%

LENS MATERIAL:

PMMA 8N

UL FLAMMABILITY:

HB

UV RATING:

AMECA Listed

OPERATING TEMPERATURE:

-40°C to +70°C (-40°F to +158°F)

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

### CERTIFICATIONS & RATINGS

RoHS

### FEATURES & BENEFITS

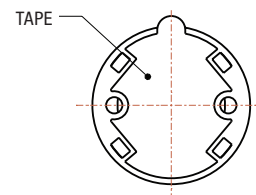
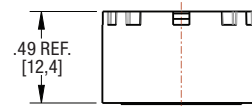
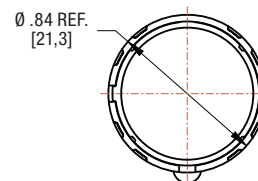
- High transmissivity
- UL rated optic material
- Optic pre-installed in housing with tape for mounting

### APPLICATION

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

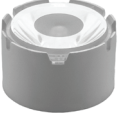
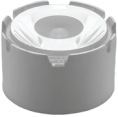
- Down light
- Wall wash
- Illumination
- Spot light
- Architectural
- ...and many more

### DIMENSIONS inches [mm]



## ORDERING INFORMATION

### OPTIC FWHM FOR SPECIFIC LEDS

|                                                                                     | Part Number                   | Description                              | LED             | FWHM*     |
|-------------------------------------------------------------------------------------|-------------------------------|------------------------------------------|-----------------|-----------|
|    | <a href="#">OPT-0010-014F</a> | 10 degree optic in holder with tape      | Cree XPE        | 9°        |
|                                                                                     |                               |                                          | Cree XPE2       | 9°        |
|                                                                                     |                               |                                          | Cree XP-G3      | 13°       |
|                                                                                     |                               |                                          | Nichia NVSL219C | 17°       |
|    | <a href="#">OPT-0025-014F</a> | 25 degree optic in holder with tape      | Cree XPE        | 21°       |
|                                                                                     |                               |                                          | Cree XPE2       | 20°       |
|                                                                                     |                               |                                          | Cree XP-G3      | 24°       |
|                                                                                     |                               |                                          | Nichia NVSL219C | 24°       |
|    | <a href="#">OPT-0040-014F</a> | 40 degree optic in holder with tape      | Cree XPE        | 41°       |
|                                                                                     |                               |                                          | Cree XPE2       | 40°       |
|                                                                                     |                               |                                          | Cree XP-G3      | 43°       |
|                                                                                     |                               |                                          | Nichia NVSL219C | 40°       |
|   | <a href="#">OPT-0060-014F</a> | 60 degree optic in holder with tape      | Cree XPE        | 66°       |
|                                                                                     |                               |                                          | Cree XPE2       | 60°       |
|                                                                                     |                               |                                          | Cree XP-G3      | 65°       |
|                                                                                     |                               |                                          | Nichia NVSL219C | 72°       |
|  | <a href="#">OPT-0080-014F</a> | 80 degree optic in holder with tape      | Cree XPE        | 82°       |
|                                                                                     |                               |                                          | Cree XPE2       | 80°       |
|                                                                                     |                               |                                          | Cree XP-G3      | 83°       |
|                                                                                     |                               |                                          | Nichia NVSL219C | 81°       |
|  | <a href="#">OPT-1045-014F</a> | 10 x 45 degree optic in holder with tape | Cree XPE        | 11° x 43° |
|                                                                                     |                               |                                          | Cree XPE2       | 11° x 44° |
|                                                                                     |                               |                                          | Cree XP-G3      | 19° x 40° |
|                                                                                     |                               |                                          | Nichia NVSL219C | 8°x 42°   |

\*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](http://www.dialightsignalsandcomponents.com)

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