# TINA-D

**~16° diffused spot beam optimized for LUXEON Rebel. Assembly with holder, installation tape and location pins.**

## TECHNICAL SPECIFICATIONS:

| | |
|---|---|
| Dimensions | Ø 16.1 mm |
| Height | 9.4 mm |
| Fastening | tape, pin |
| ROHS compliant | yes |

## MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour | Finish |
|---|---|---|---|---|
| TINA-D | Single lens | PMMA | clear | |
| TINA-H-TAPE-RE-BLK | Holder | PC | black | |
| TINA-TAPE3 | Tape | PU tape | black | |

## ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|---|
| FA11209_TINA-D | Single lens | 2016 | 288 | 144 | 4.0 |
| » Box size: | | | | | |


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Bottom view

Isometric view

Front view

Top view

Materials
Lens: PMMA
Holder: PC
Tape: PU Foam

| | | | |
|---|---|---|---|
| This drawing is our property. It can't be reproduced or communicated without our written agreement. | | Ledil Oy<br>Salorankatu 10<br>FIN 24240 SALO<br>Finland | |
| DRAWN BY: as | DATE: 10.9.2012 | DRAWING TITLE: Mechanical Drawing<br>TINA-RE | |
| CHECKED BY: sn | DATE: - | SIZE: A4 | PART NUMBER: TINA-RE / REV: 001 |
| DESIGNED BY: - | DATE: - | SCALE: 2:1 / WEIGHT: 1,46 g | SHEET: 1/1 |

See also our general installation guide: www.ledil.com/installation_guide


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## PHOTOMETRIC DATA (MEASURED):

CREE

| | |
|---|---|
| LED | XB-H |
| FWHM | 17.0° |
| Efficiency | 87 % |
| Peak intensity | 7.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

LUMILEDS

| | |
|---|---|
| LED | LUXEON Rebel |
| FWHM | 15.0° |
| Efficiency | 92 % |
| Peak intensity | 5.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

LUMILEDS

| | |
|---|---|
| LED | LUXEON Z ES |
| FWHM | 14.0° |
| Efficiency | 89 % |
| Peak intensity | 12 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

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## PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM | 15.0° |
| Efficiency | 92 % |
| Peak intensity | 9.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

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## GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

## MATERIALS:

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