

## TINA-BW

~60° batwing beam. Assembly with black holder, installation tape and location pins.

### SPECIFICATION:

|                |           |
|----------------|-----------|
| Dimensions     | Ø 16.1 mm |
| Height         | 9.5 mm    |
| Fastening      | tape, pin |
| ROHS compliant | yes ⓘ     |

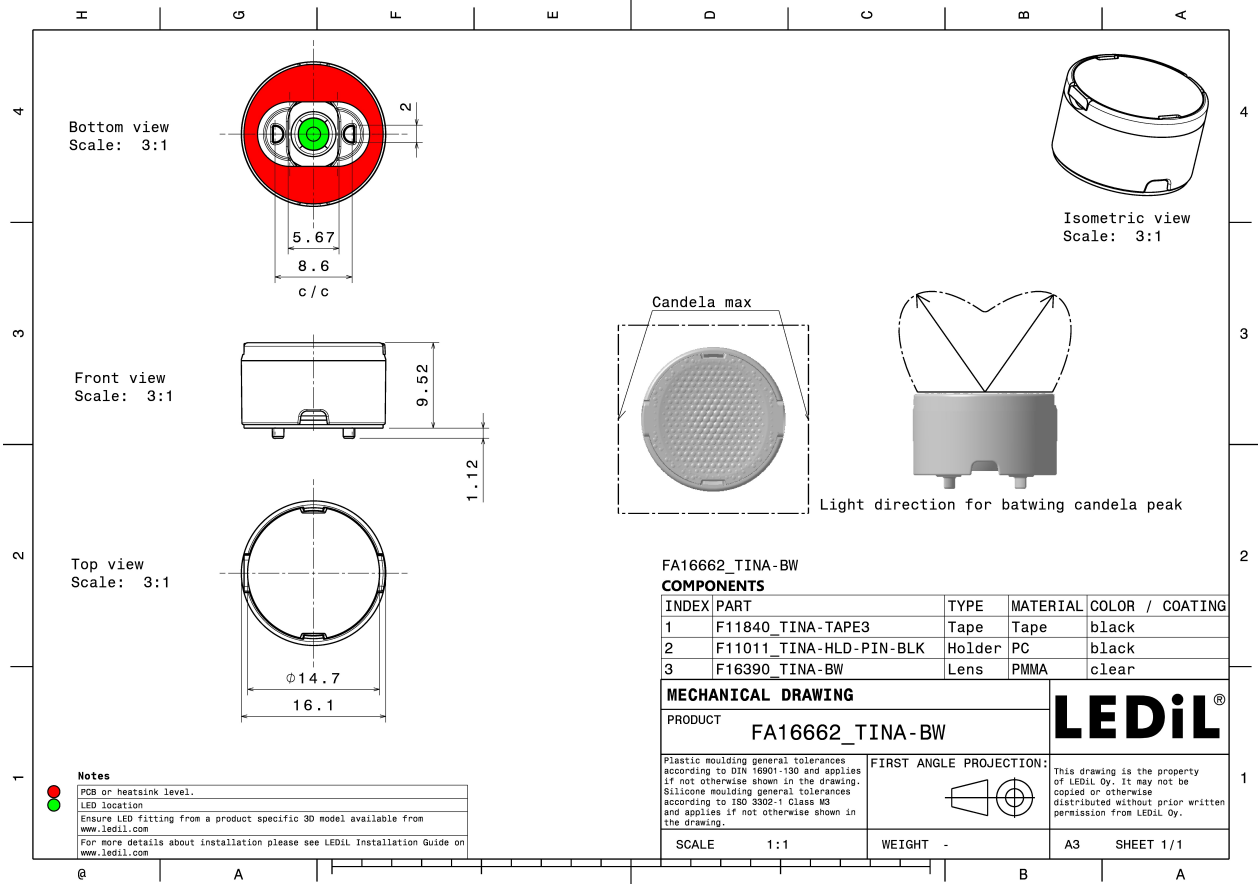
### MATERIALS:

| Component        | Type        | Material     | Colour | Finish |
|------------------|-------------|--------------|--------|--------|
| TINA-BW          | Single lens | PMMA         | clear  |        |
| TINA-HLD-PIN-BLK | Holder      | PC           | black  |        |
| TINA-TAPE3       | Tape        | Acrylic foam | black  |        |

### ORDERING INFORMATION:

| Component                      | Type        | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|-------------|------------|-----|-----|-----------------|
| FA16662_TINA-BW                | Single lens | 2016       | 288 | 144 | 3.4             |
| » Box size: 470 x 240 x 105 mm |             |            |     |     |                 |



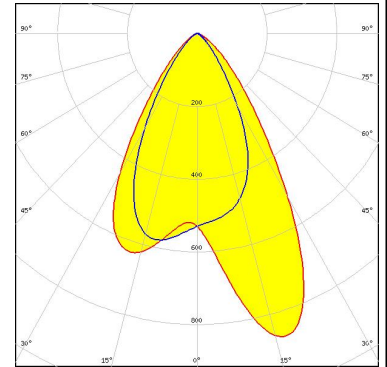


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):

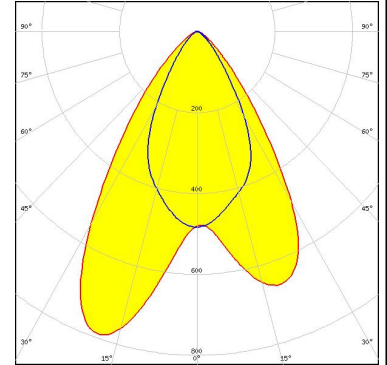
##### CREE LED

LED XHP35 HI  
 FWHM / FWTM Asymmetric  
 Efficiency 79 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



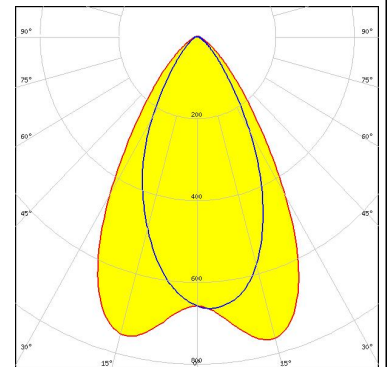
##### CREE LED

LED XP-E2  
 FWHM / FWTM Asymmetric  
 Efficiency 77 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



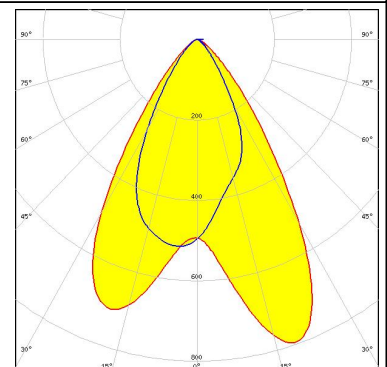
##### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM Asymmetric  
 Efficiency 77 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

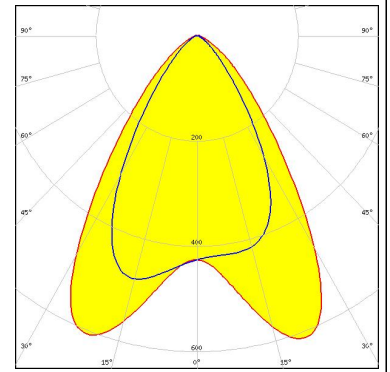
Opto Semiconductors  
 LED OSLOM SSL 150  
 FWHM / FWTM Asymmetric  
 Efficiency 77 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

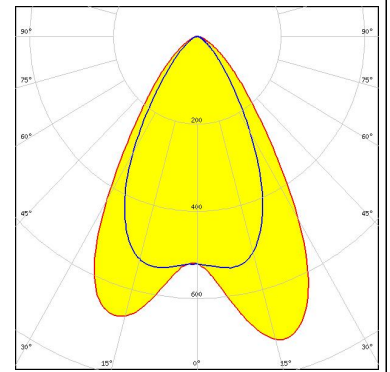
#### SAMSUNG

LED LH351B  
FWHM / FWTM Asymmetric  
Efficiency 75 %  
Peak intensity 0.6 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



#### SAMSUNG

LED LH351C  
FWHM / FWTM Asymmetric  
Efficiency 78 %  
Peak intensity 0.7 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



## OPTICAL RESULTS (SIMULATED):

|   |  |
|---|--|
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED: SYNIOS S2222</p> <p>FWHM / FWTM: Asymmetric</p> <p>Efficiency: 97 %</p> <p>Peak intensity: 1.1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p> |   |
| <p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: Z5M4</p> <p>FWHM / FWTM: Asymmetric</p> <p>Efficiency: 88 %</p> <p>Peak intensity: 1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>                     |  |

### 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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