

### TINA

Ø16.1 mm TIR-lenses for linear lighting, museums, reading lights, compact torches and head lamps compatible with up to 3535 size LED packages

TINA is a versatile family of single Ø16.1 mm lenses consisting of TINA, TINA2 and TINA3 subfamilies. All subfamilies have the same dimensions and come preassembled in lightweight durable holders with fastening tape that makes their installation fast and easy. TINA family has a wide selection of beams from narrow to wide flood.

### TINA2

Variant with black holder

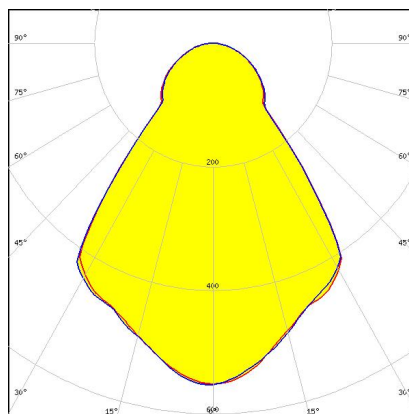


### PRODUCTS:

#### C10449\_TINA-W

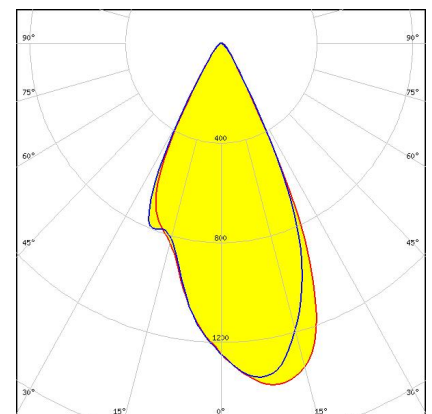
**Dimensions: 16.0 mm x 16.0 mm**  
**Height: 8.60 mm**  
~50° wide beam

#### C13253\_TINA2-R-CLIP16



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 10.10 mm**  
Mini reflector with ~60° wide beam and clip installation

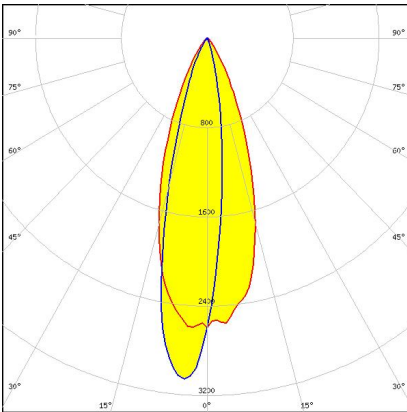
#### CA12056\_TINA2-W



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.70 mm**  
~45° wide beam optimized for CREE XP-E. Assembly with holder and installation tape.

### PRODUCTS:

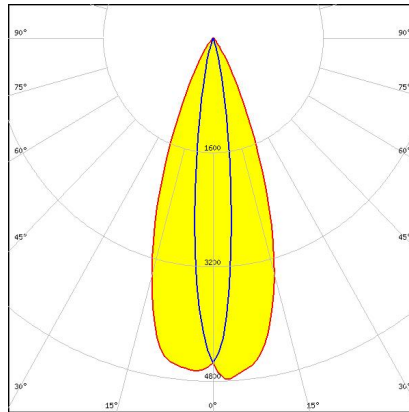
#### CA15365\_TINA2-O-WAS



**Dimensions: 16.0 mm x 16.0 mm**  
**Height: 9.50 mm**

Asymmetric beam for wall-washing.  
Assembly with black holder, installation tape and location pins.

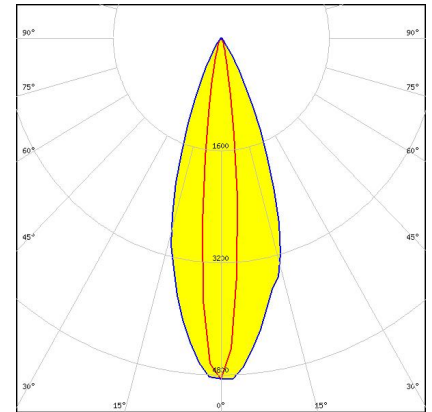
#### CA11052\_TINA2-O



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.70 mm**

~35° + 15° oval beam optimized for CREE XP-E. Assembly with holder and installation tape.

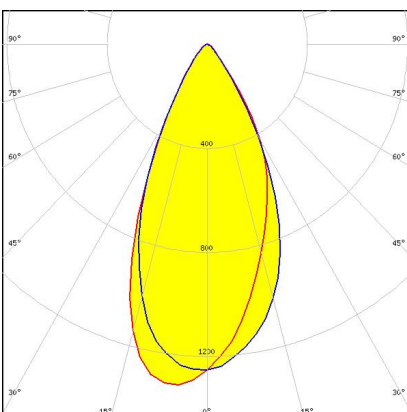
#### CA12047\_TINA2-O



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 10.12 mm**

~35° + 15° oval beam optimized for Osram Golden Dragon+. Assembly with holder and installation tape.

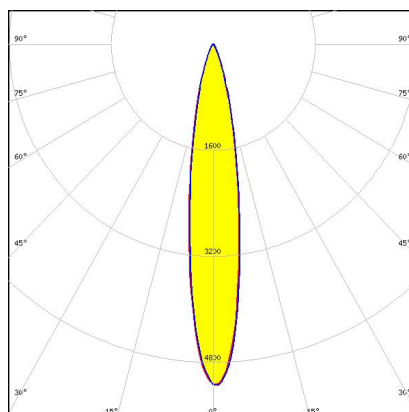
#### CA11022\_TINA2-W



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.30 mm**

~45° wide beam optimized for Nichia NCSxx19. Assembly with holder, installation tape and location pins.

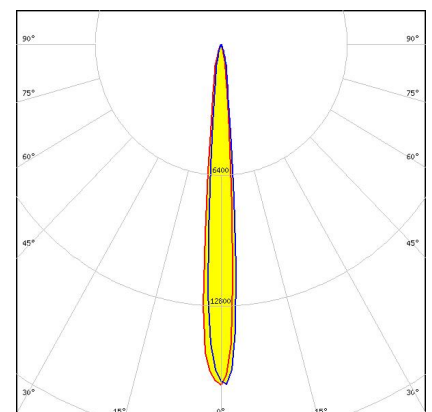
#### CA11942\_TINA2-D



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.30 mm**

~16° diffused spot beam optimized for Nichia NCSxx19. Assembly with holder, installation tape and location pins.

#### CP12687\_TINA2-RS

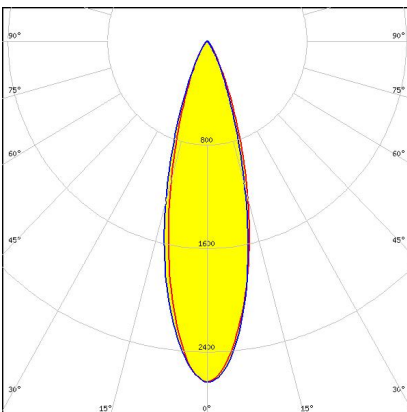


**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.50 mm**

~14° spot beam optimized for Osram Oslon SSL80. Assembly with holder.

### PRODUCTS:

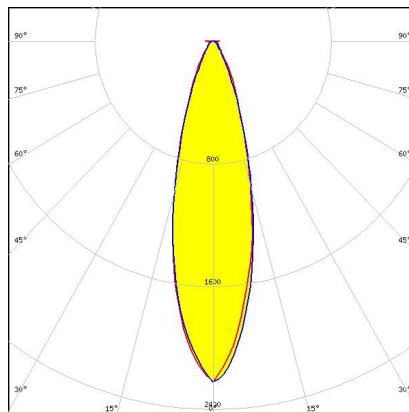
#### CA11021\_TINA2-M



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.30 mm**

~30° medium beam optimized for Nichia NCSxx19. Assembly with holder, installation tape and location pins.

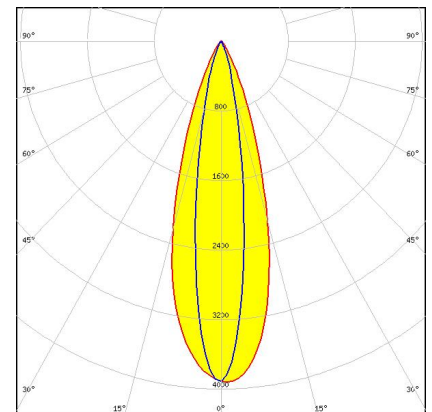
#### CA11848\_TINA2-M



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 10.10 mm**

~30° medium beam optimized for Osram Golden Dragon+. Assembly with holder and installation tape.

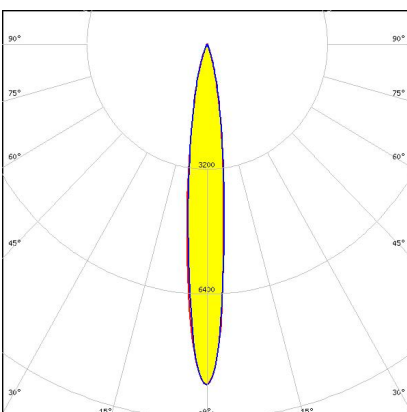
#### CA12379\_TINA2-O



**Dimensions: 16.0 mm x 16.0 mm**  
**Height: 9.50 mm**

~35° + 15° oval beam optimized for CREE XP-E. Assembly with holder, installation tape and location pins.

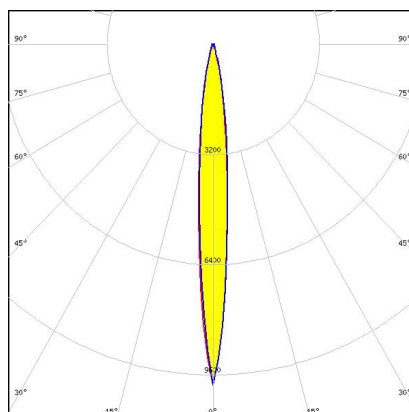
#### CA11020\_TINA2-RS



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.30 mm**

~14° spot beam optimized for Nichia NCSxx19. Assembly with holder, installation tape and location pins.

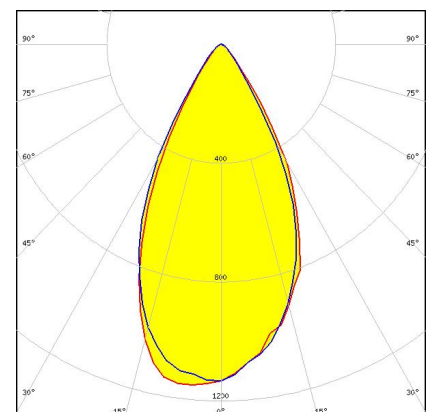
#### CA11847\_TINA2-RS



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 10.10 mm**

~14° spot beam optimized for Osram Golden Dragon+. Assembly with holder and installation tape.

#### CA12378\_TINA2-W

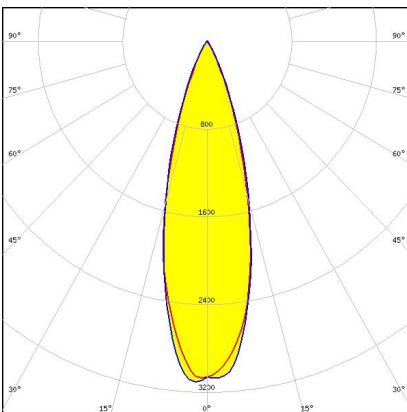


**Dimensions: 16.0 mm x 16.0 mm**  
**Height: 9.50 mm**

~45° wide beam optimized for CREE XP-E. Assembly with holder, installation tape and location pins.

### PRODUCTS:

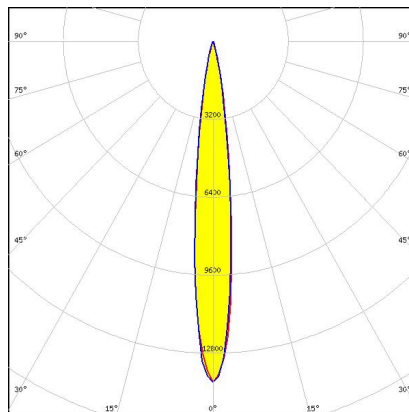
#### CA11017\_TINA2-M



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.70 mm**

~30° medium beam optimized for CREE XP-E. Assembly with holder and installation tape.

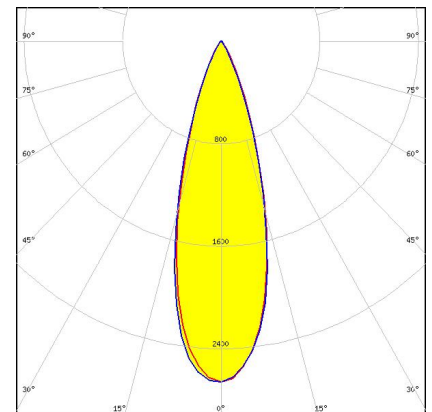
#### CA11420\_TINA2-D



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.66 mm**

~16° diffused spot beam optimized for CREE XP-E. Assembly with holder and installation tape.

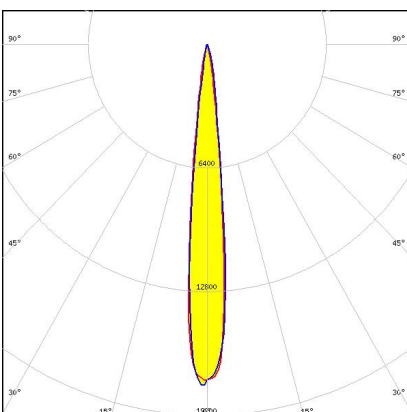
#### CA12377\_TINA2-M



**Dimensions: 16.0 mm x 16.0 mm**  
**Height: 9.50 mm**

~30° medium beam optimized for CREE XP-E. Assembly with holder, installation tape and location pins.

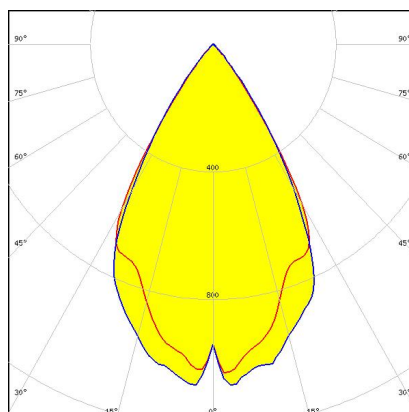
#### CA11016\_TINA2-RS



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.70 mm**

~14° spot beam optimized for CREE XP-E. Assembly with holder and installation tape.

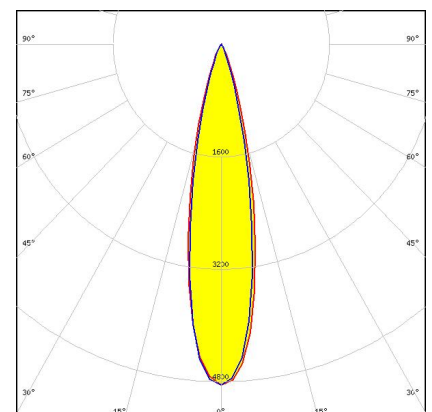
#### CA11176\_TINA2-WW



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 11.00 mm**

~60° wide beam optimized for Nichia NS6x83. Assembly with holder and installation tape.

#### CA12376\_TINA2-SS

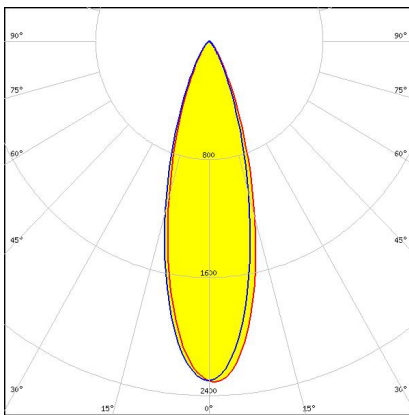


**Dimensions: 16.0 mm x 16.0 mm**  
**Height: 9.26 mm**

~20° smooth spot beam. Assembly with holder, installation tape and location pins.

### PRODUCTS:

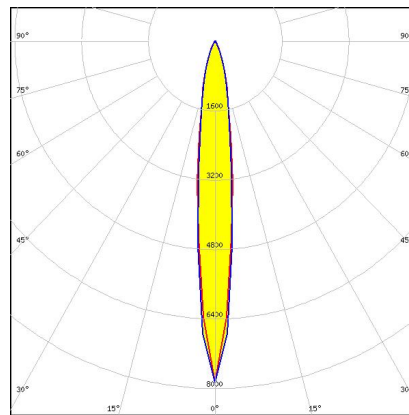
#### CA11174\_TINA2-M



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 11.00 mm**

~30° medium beam optimized for Nichia NS6x83. Assembly with holder and installation tape.

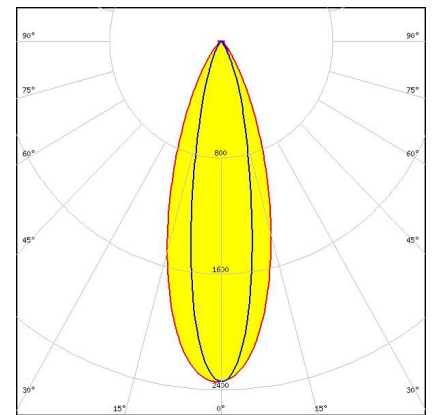
#### CA12375\_TINA2-D



**Dimensions: 16.0 mm x 16.0 mm**  
**Height: 9.50 mm**

~16° diffused spot beam optimized for CREE XP-E. Assembly with holder, installation tape and location pins.

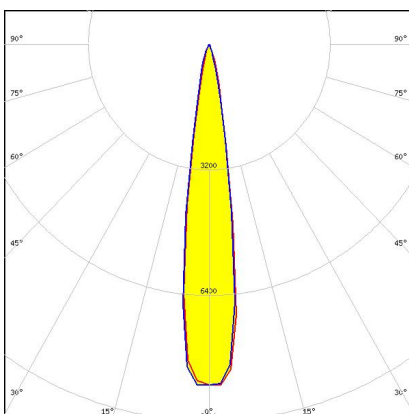
#### CA11173\_TINA2-O



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 11.00 mm**

~35° + 15° oval beam optimized for Nichia NS6x83. Assembly with holder and installation tape.

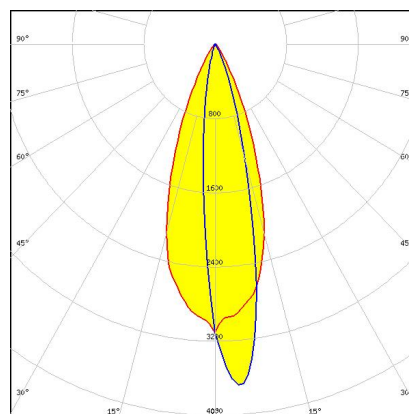
#### CA12374\_TINA2-RS



**Dimensions: 16.0 mm x 16.0 mm**  
**Height: 9.50 mm**

~14° spot beam. Assembly with holder, installation tape and location pins.

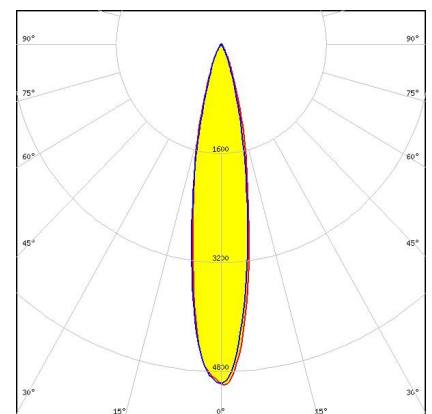
#### CA15536\_TINA2-O-WAS



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.70 mm**

Asymmetric beam for wall-washing. Assembly with black holder and installation tape.

#### CA11171\_TINA2-RS



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 11.00 mm**

~14° spot beam optimized for Nichia NS6x83. Assembly with holder and installation tape.

### 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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