

### 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.

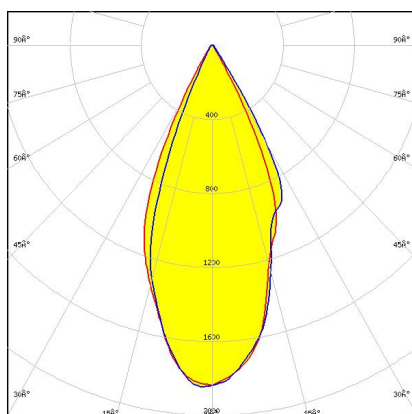
### TINA

Variant with black or white holder



### PRODUCTS:

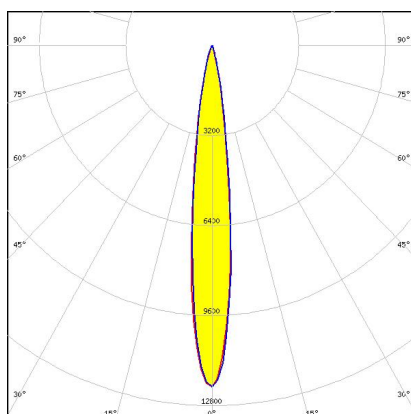
#### FA10838\_TINA-W



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

~50° wide beam optimized for CREE XP-E. Assembly with holder and installation tape.

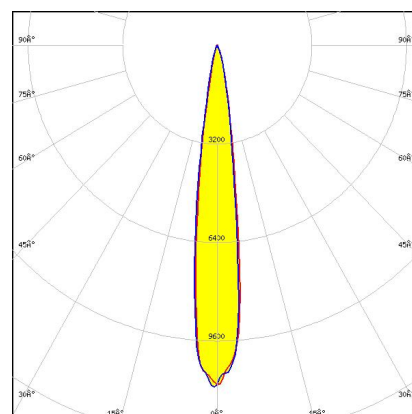
#### FA11209\_TINA-D



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.40 mm**

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

#### FA10887\_TINA-RS

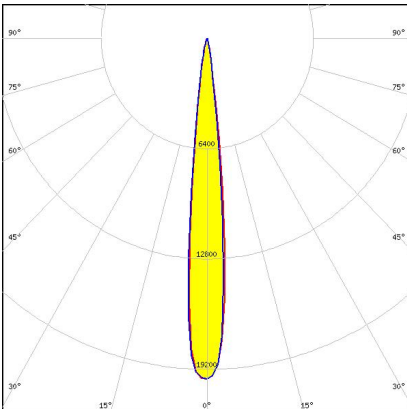


**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.70 mm**

~13° spot beam optimized for CREE XP-E. Assembly with holder and installation tape.

### PRODUCTS:

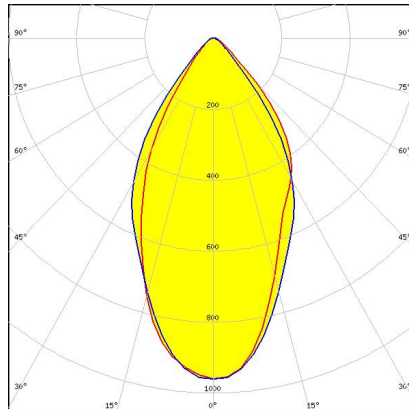
#### FA11212\_TINA-RS



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.40 mm**

~13° spot beam optimized for LUXEON Rebel. Assembly with holder, installation tape and location pins.

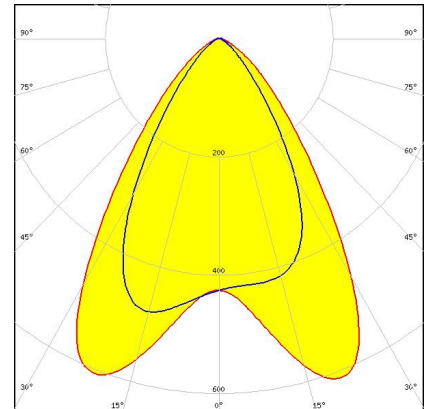
#### FA11019\_TINA-WW



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

~60° wide beam optimized for CREE XP-E. Assembly with holder and installation tape.

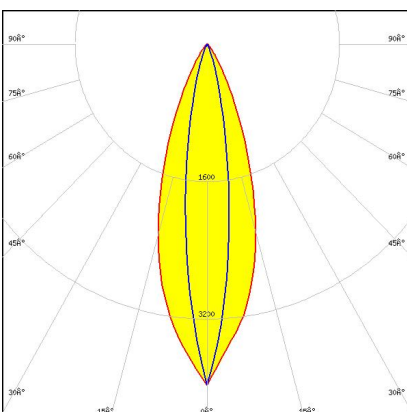
#### FA16662\_TINA-BW



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.52 mm**

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

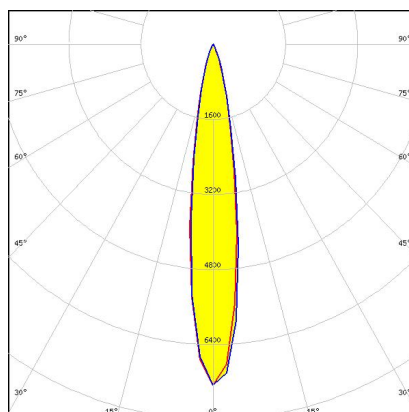
#### FA11200\_TINA-O



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

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

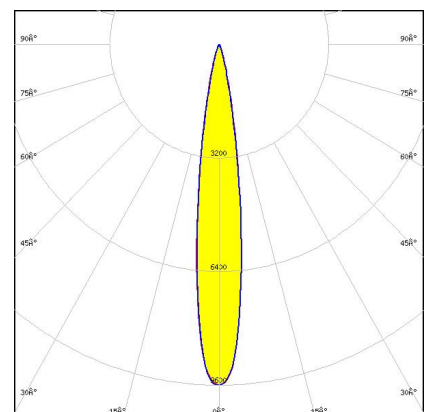
#### FA11205\_TINA-D



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

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

#### FA10644\_TINA-D

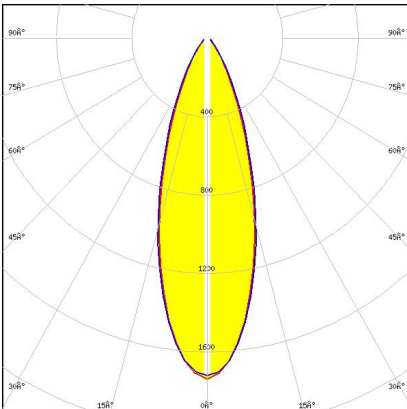


**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.70 mm**

~16° diffused spot beam optimized for CREE XP-E

### PRODUCTS:

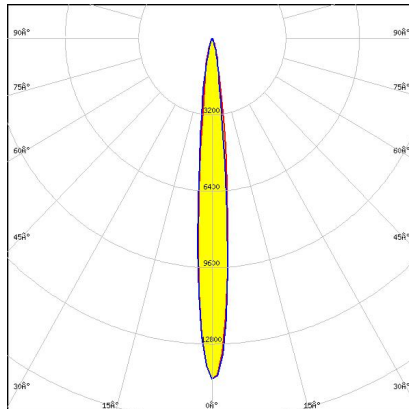
#### FA10647\_TINA-M



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 11.10 mm**

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

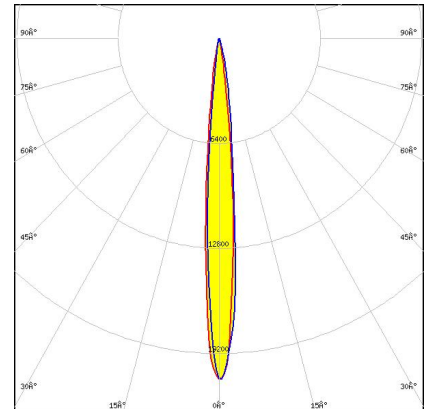
#### FA11208\_TINA-RS



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

~13° spot beam. Assembly with holder, installation tape and location pins.

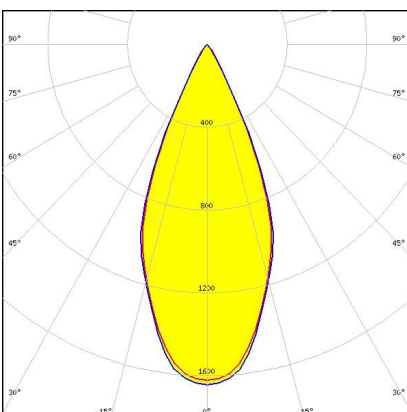
#### FA10886\_TINA-RS



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

~13° spot beam optimized for Osram Golden Dragon+. Assembly with holder and installation tape.

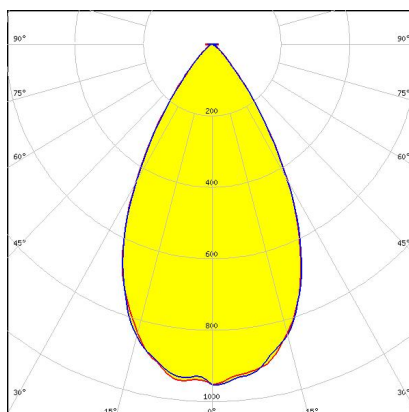
#### FA11211\_TINA-W



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.40 mm**

~50° wide beam optimized for LUXEON Rebel. Assembly with holder, installation tape and location pins.

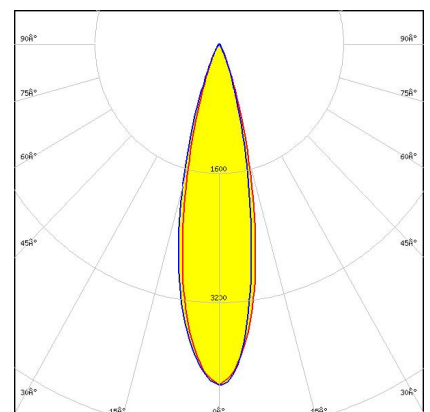
#### FA10901\_TINA-WW



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 11.10 mm**

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

#### FA13093\_TINA-M2

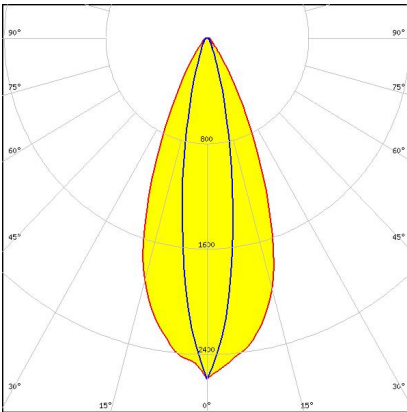


**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.70 mm**

~30° medium beam. Assembly with holder and installation tape.

### PRODUCTS:

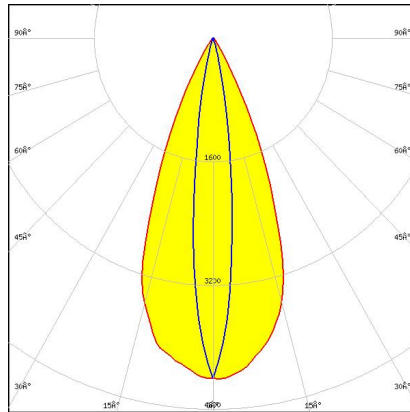
#### FA11199\_TINA-O



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

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

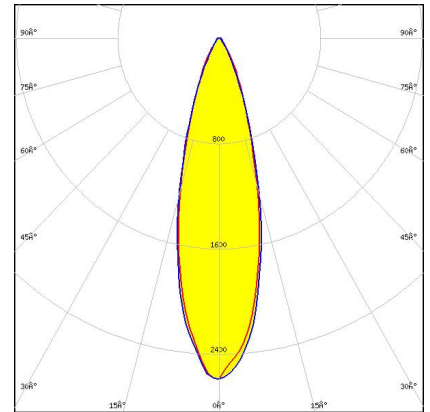
#### FA11204\_TINA-O



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

~35° x 15° oval beam. Assembly with holder, installation tape and location pins.

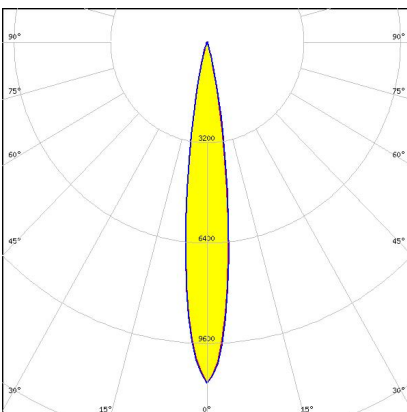
#### FA10643\_TINA-M



**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.

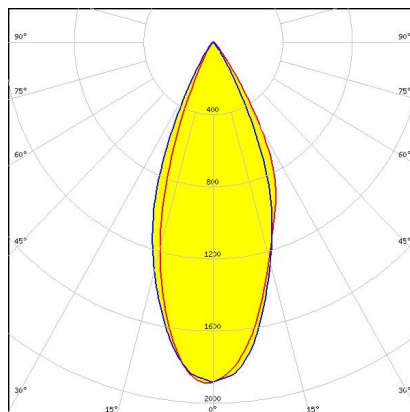
#### FA10646\_TINA-D



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 11.10 mm**

~16° diffused spot beam optimized for Nichia NS6x83. Assembly with holder and installation tape.

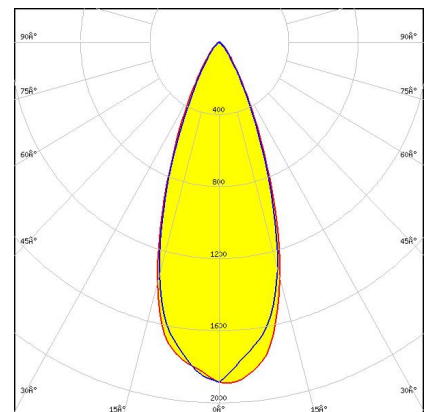
#### FA11207\_TINA-W



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

~50° wide beam. Assembly with holder, installation tape and location pins.

#### FA10839\_TINA-W

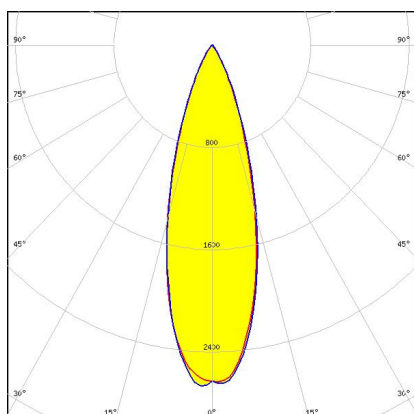


**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 11.10 mm**

~50° wide beam optimized for Nichia NS6x83. Assembly with holder and installation tape.

### PRODUCTS:

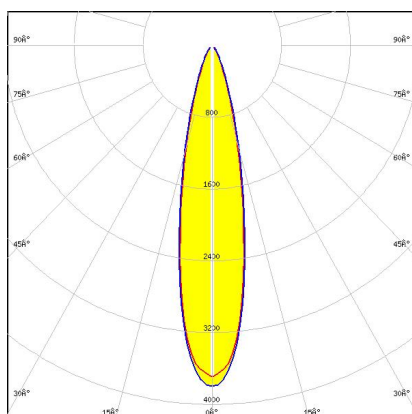
#### FA11210\_TINA-M



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.40 mm**

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

#### FA10888\_TINA-RS



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 11.10 mm**

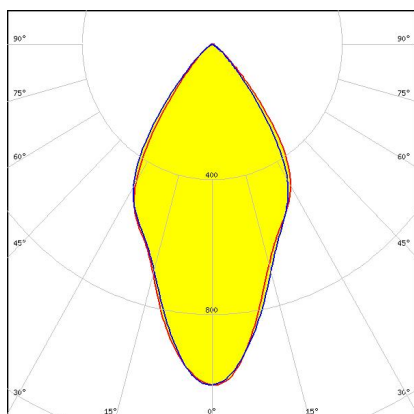
~13° spot beam optimized for Nichia NS6x83. Assembly with holder and installation tape.

#### FA12040\_TINA-M

**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.40 mm**

~30° medium beam designed for LUXEON Rebel ES. Assembly with holder, installation tape and location pins.

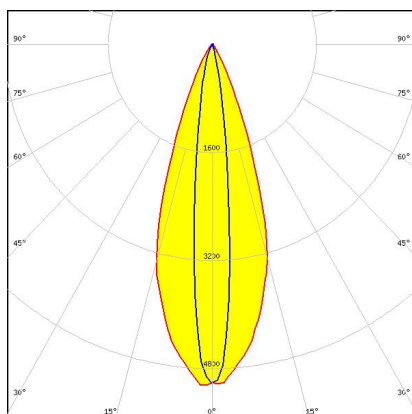
#### FA11027\_TINA-WW



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

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

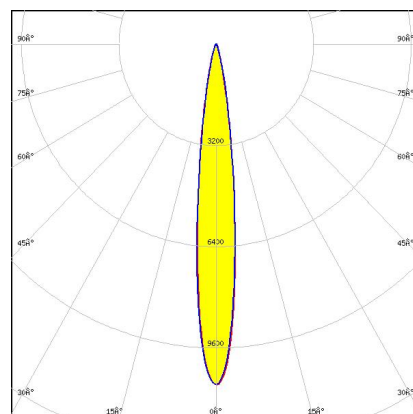
#### FA11203\_TINA-O



**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 9.40 mm**

~35° x 15° oval beam optimized for LUXEON Rebel. Assembly with holder, installation tape and location pins.

#### FA10642\_TINA-D

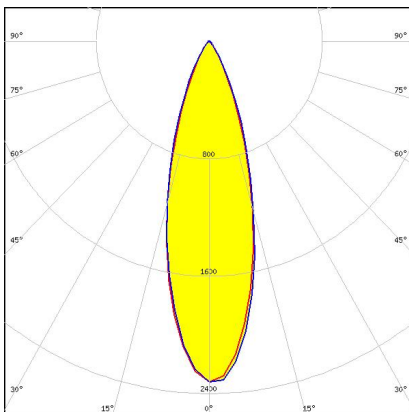


**Dimensions: 16.1 mm x 16.1 mm**  
**Height: 10.32 mm**

~16° diffused spot beam optimized for Osram Golden Dragon+. Assembly with holder and installation tape.

### PRODUCTS:

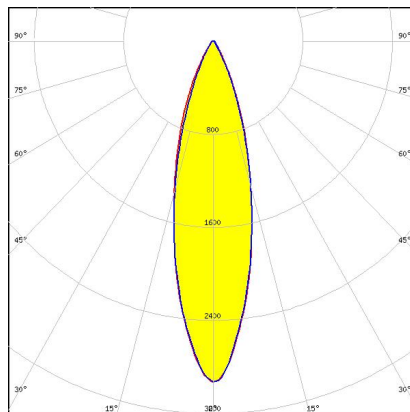
#### FA11206\_TINA-M



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

~30° medium beam. Assembly with holder, installation tape and location pins.

#### FA10645\_TINA-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.



### 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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