

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 - available with or without pins at distance of 8.6 or 6.6 mm - 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 or white holder, available with or without pins. Pin distance 8.6 mm.

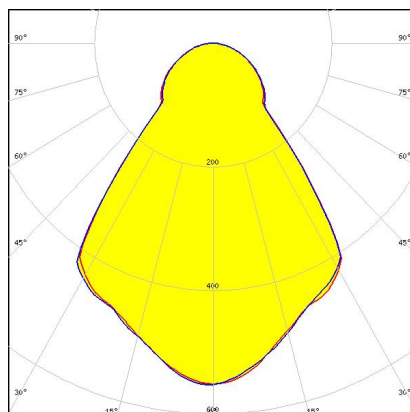


PRODUCTS:

C10449_TINA-W

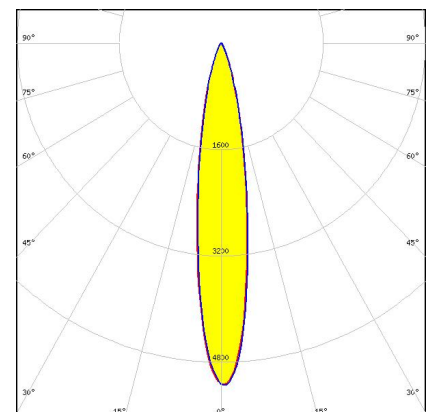
C13253_TINA2-R-CLIP16

CA11942_TINA2-D



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

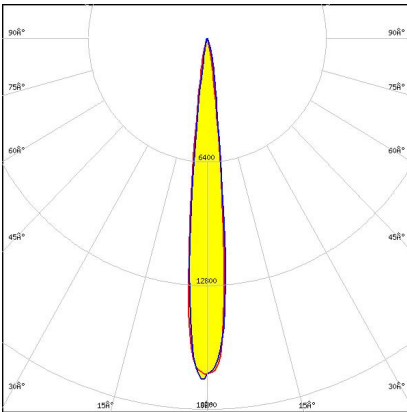
Dimensions: 16.1 mm x 16.1 mm
Height: 10.10 mm
Mini reflector with ~60° wide beam and clip installation



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.

PRODUCTS:

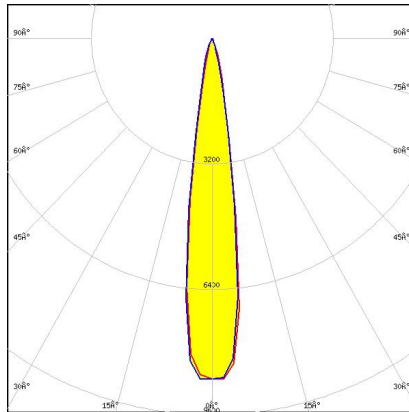
CA11016_TINA2-RS



Dimensions: 16.1 mm x 16.1 mm
Height: 9.70 mm

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

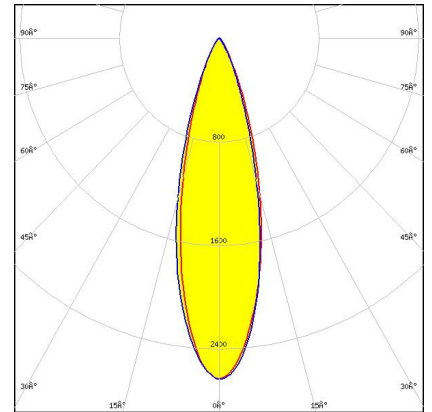
CA12374_TINA2-RS



Dimensions: 16.0 mm x 16.0 mm
Height: 9.50 mm

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

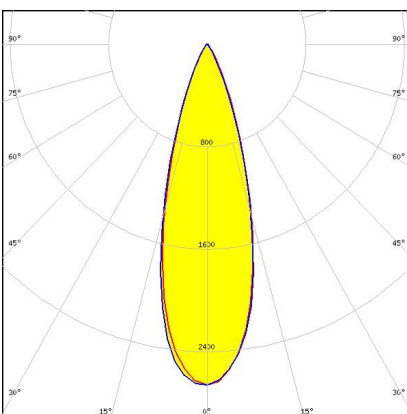
CA11021_TINA2-M



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.

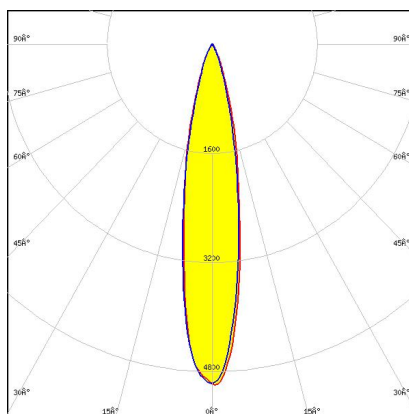
CA12377_TINA2-M



Dimensions: 16.0 mm x 16.0 mm
Height: 9.50 mm

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

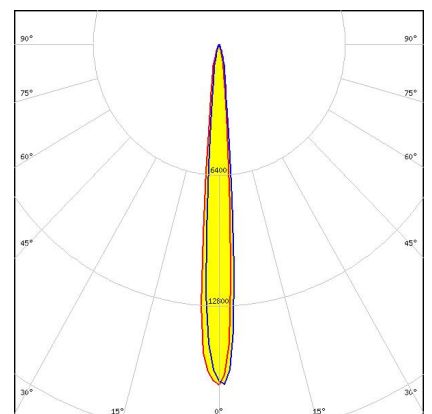
CA11171_TINA2-RS



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.

CP12687_TINA2-RS

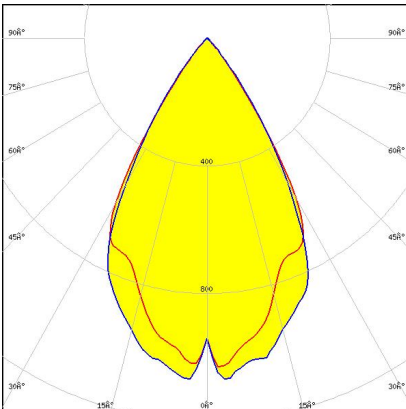


Dimensions: 16.1 mm x 16.1 mm
Height: 9.50 mm

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

PRODUCTS:

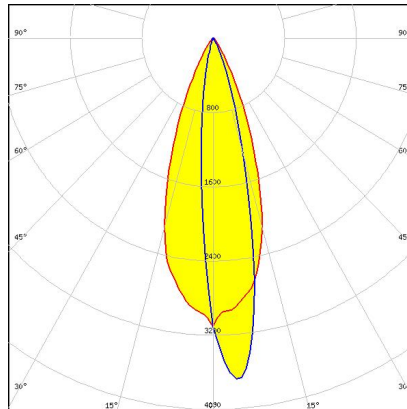
CA11176_TINA2-WW



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.

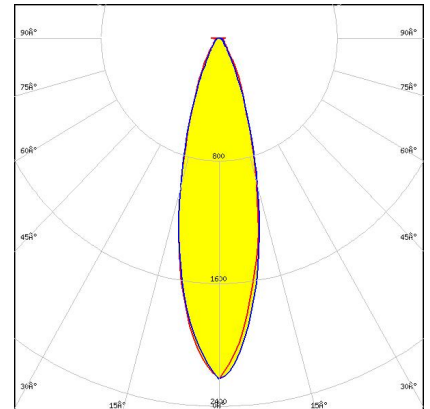
CA15536_TINA2-O-WAS



Dimensions: 16.1 mm x 16.1 mm
Height: 9.70 mm

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

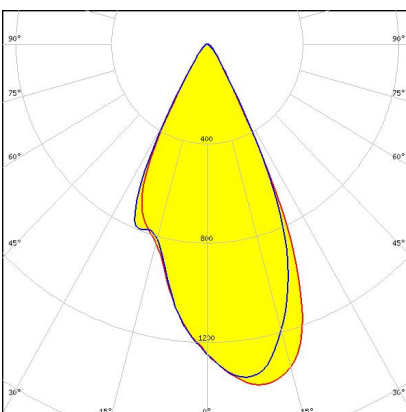
CA11848_TINA2-M



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.

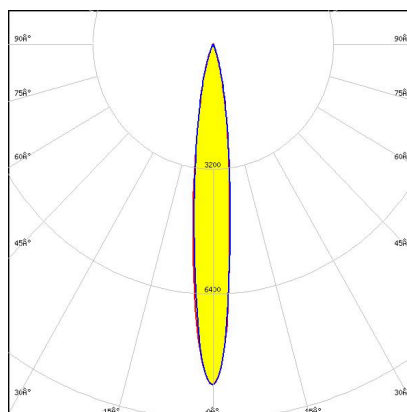
CA12056_TINA2-W



Dimensions: 16.1 mm x 16.1 mm
Height: 9.70 mm

~45° wide beam. Assembly with holder and installation tape.

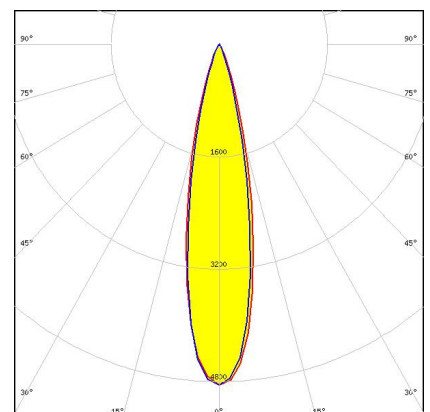
CA11020_TINA2-RS



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.

CA12376_TINA2-SS

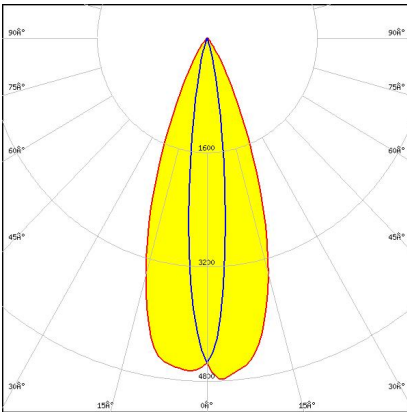


Dimensions: 16.0 mm x 16.0 mm
Height: 9.26 mm

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

PRODUCTS:

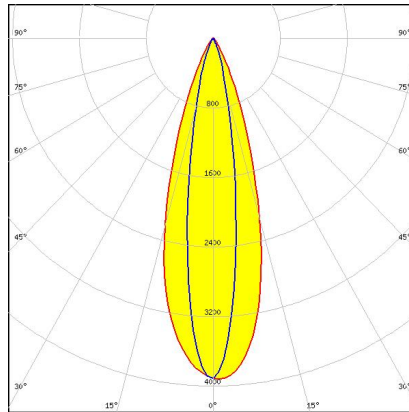
CA11052_TINA2-O



Dimensions: 16.1 mm x 16.1 mm
Height: 9.70 mm

~35° + 15° oval beam. Assembly with holder and installation tape.

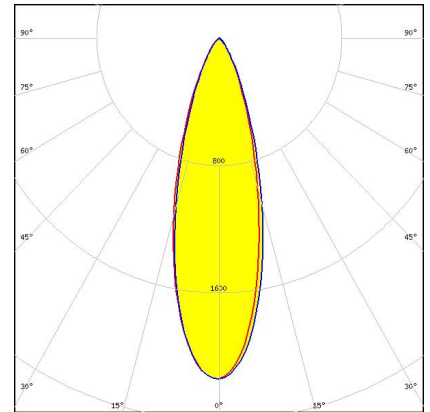
CA12379_TINA2-O



Dimensions: 16.0 mm x 16.0 mm
Height: 9.50 mm

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

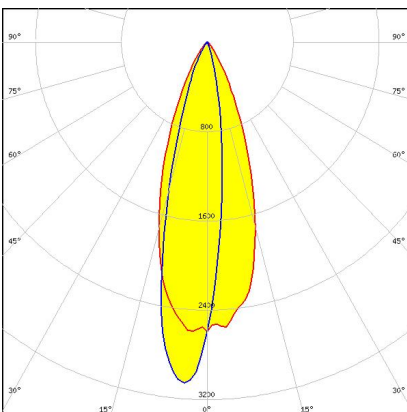
CA11174_TINA2-M



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.

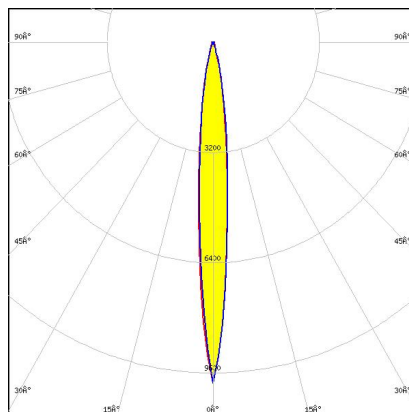
CA15365_TINA2-O-WAS



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.

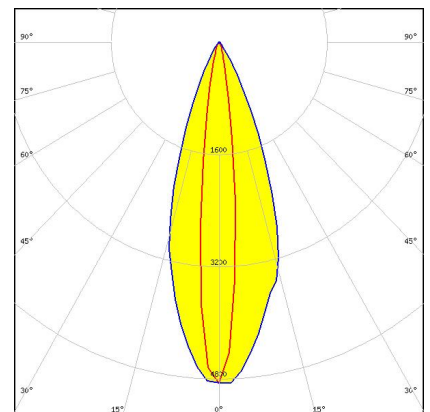
CA11847_TINA2-RS



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.

CA12047_TINA2-O

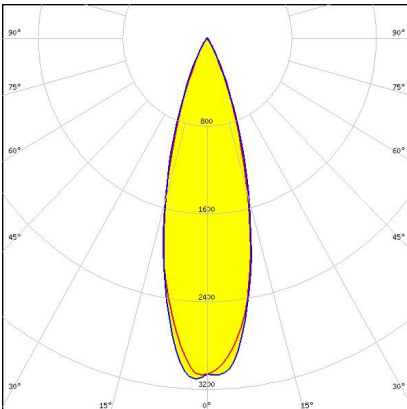


Dimensions: 16.1 mm x 16.1 mm
Height: 10.12 mm

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

PRODUCTS:

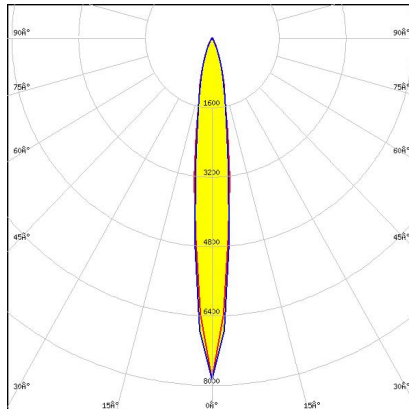
CA11017_TINA2-M



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.

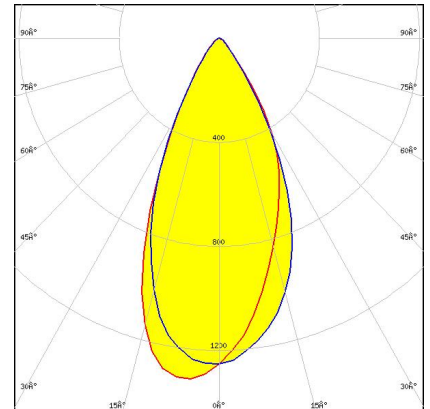
CA12375_TINA2-D



Dimensions: 16.0 mm x 16.0 mm
Height: 9.50 mm

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

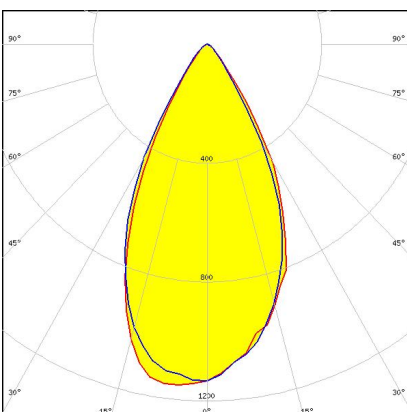
CA11022_TINA2-W



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.

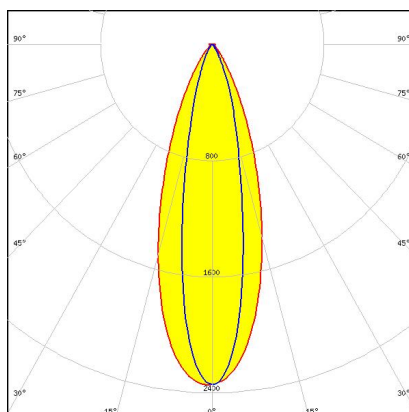
CA12378_TINA2-W



Dimensions: 16.0 mm x 16.0 mm
Height: 9.50 mm

~45° wide beam. Assembly with holder,
installation tape and location pins.

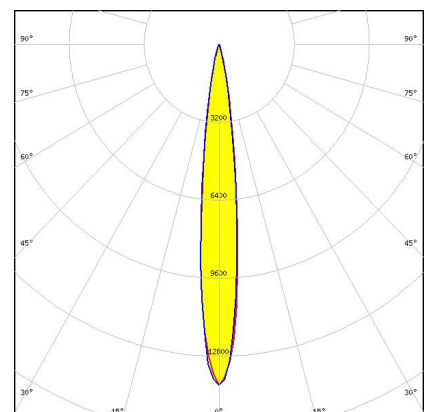
CA11173_TINA2-O



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.

CA11420_TINA2-D

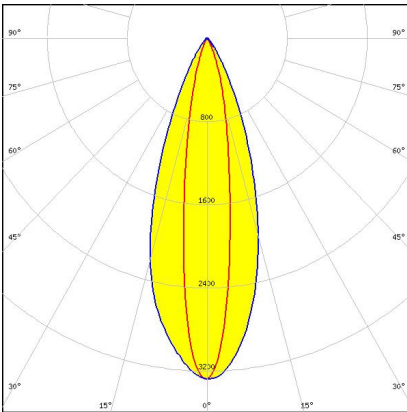


Dimensions: 16.1 mm x 16.1 mm
Height: 9.66 mm

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

PRODUCTS:

CA18029_TINA2-O-90



Dimensions: 16.0 mm x 16.0 mm

Height: 9.50 mm

~35° + 15° oval beam. Assembly with
holder and installation tape. Pin position
rotated 90°.

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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