

### ROSE

21.6 x 21.6 mm lenses preassembled in durable holders with an adhesive tape

ROSE is a versatile family of single 21.6 x 21.6 mm lenses consisting of ROSE, ROSE-MRK and ROSE-UV subfamilies. All subfamilies have the same dimensions and come preassembled in lightweight and durable holders with a fastening tape that makes their installation fast and easy.

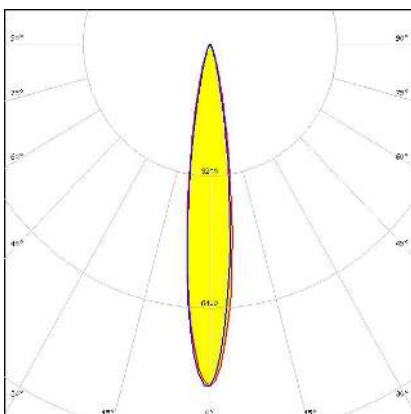
### ROSE

Variant made from PC for up to 5050 size LED packages



### PRODUCTS:

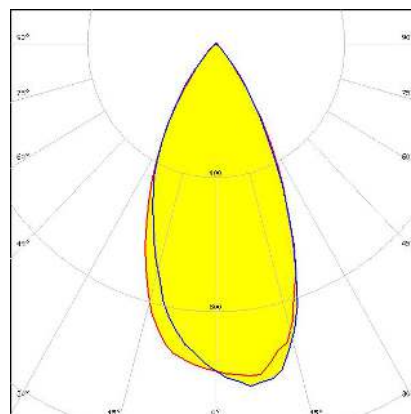
#### FA10338\_NIS83-MX-D



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

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

#### FA10708\_CXP-W



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.15 mm**

~50° wide beam optimized for CREE XP-E. Assembly with black holder.

#### FA11910\_CXM-D

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

~16° diffused spot beam optimized for CREE XM-L. Assembly with white holder.

### PRODUCTS:

#### FCA10305\_CRS-M

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.80 mm**

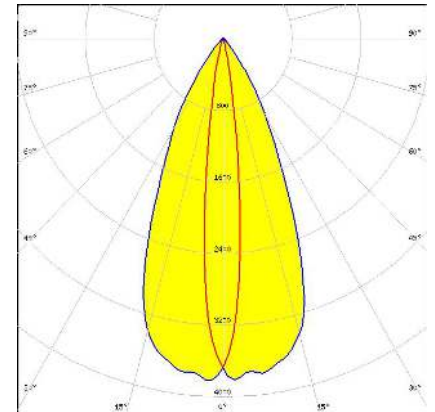
~30° medium beam optimized for CREE  
XR-E. Assembly with grey holder.

#### CA10595\_NIS036-2-RS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.00 mm**

~11° spot beam optimized for Nichia  
NJSx036. Assembly with white holder.

#### FA11145\_OSS-O-90



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

~13° + 45° oval beam optimized for  
Osram Golden Dragon+. Variant with  
beam direction rotated 90°. Assembly  
with white holder.

#### CA13615\_G2-OSS-2-O

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

~45° + 15° oval beam optimized for  
Osram Golden Dragon+. G2 assembly  
with light, white holder.

#### FA10336\_NIS83-MX-RS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~11° spot beam optimized for Nichia  
NS6x83. Assembly with white holder and  
installation tape.

#### FA10679\_CMC-RS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.80 mm**

~11° spot beam optimized for CREE  
MC-E. Assembly with black holder.

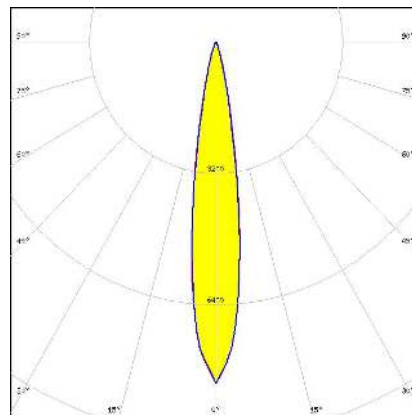
### PRODUCTS:

#### FA11908\_CXM-SS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

~15° smooth spot beam optimized for  
CREE XM-L. Assembly with white holder.

#### FCA10303\_CRS-RS



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.80 mm**

~11° spot beam optimized for CREE  
XR-E. Assembly with grey holder and  
installation tape.

#### CA10593\_NIS036-2-D

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.00 mm**

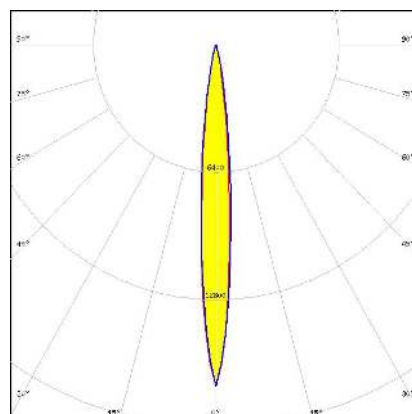
~16° diffused spot beam optimized for  
Nichia NJSx036. Assembly with white  
holder.

#### FCA10938\_NIS036-O

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.00 mm**

~45° + 15° oval beam optimized for  
Nichia NJSx036. Assembly with white  
holder.

#### CA13613\_G2-OSS-2-RS



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

~11° spot beam optimized for Osram  
Golden Dragon+. G2 assembly with light,  
white holder.

#### FA10329\_K2S-SS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 15.60 mm**

~15° smooth spot beam optimized for  
LUXEON K2. Assembly with transparent  
holder.

### PRODUCTS:

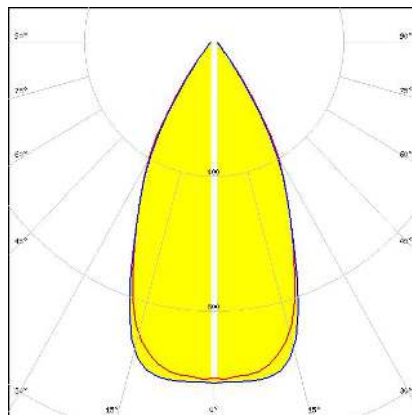
#### FA10677\_CMC-D

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.80 mm**

~16° diffused spot beam optimized for CREE MC-E. Assembly with black holder.

#### FCX11675\_RES-WW



**Dimensions: 21.6 mm x 21.6 mm**

**Height: 12.90 mm**

~60° wide beam optimized for LUXEON Rebel. Assembly with white holder.

#### FA10301\_OSS-M

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.90 mm**

~30° medium beam optimized for Osram Golden Dragon+. Assembly with white holder.

#### CA10572\_OSS-2-O

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.90 mm**

~45° + 15° oval beam optimized for Osram Golden Dragon+. Assembly with white holder.

#### FCA10936\_NIS036-D

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.00 mm**

~16° diffused spot beam optimized for Nichia NJSx036. Assembly with white holder.

#### CA13611\_G2-OSS-2-D

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.90 mm**

~16° diffused spot beam optimized for Osram Golden Dragon+. G2 assembly with light, white holder.

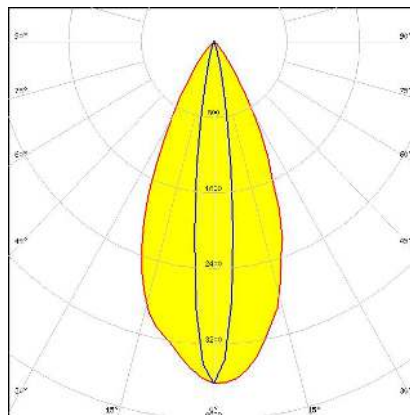
### PRODUCTS:

#### FA10327\_OSS-SS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

~15° smooth spot beam optimized for Osram Golden Dragon+. Assembly with white holder and installation tape.

#### FA10669\_CXP-O



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.15 mm**

~45° + 15° oval beam optimized for CREE XP-E. Assembly with black holder.

#### FA11237\_NIS53-WW

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.00 mm**

~60° wide beam optimized for Nichia NS9x153. Assembly with black holder.

#### FA10299\_OSS-RS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

~11° spot beam optimized for Osram Golden Dragon+. Assembly with white holder.

#### CA10561\_OSS-2-RS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

~11° spot beam optimized for Osram Golden Dragon+. Assembly with white holder.

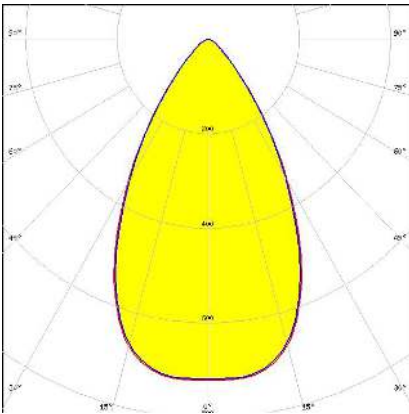
#### FCA10934\_NIS036-RS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.00 mm**

~11° spot beam optimized for Nichia NJSx036. Assembly with white holder.

### PRODUCTS:

#### FA12620\_CXM-W



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

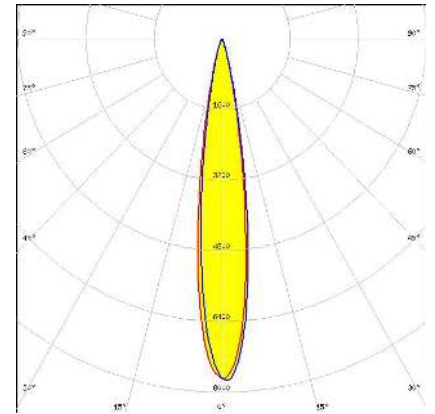
~50° wide beam optimized for CREE XM-L. Assembly with white holder.

#### FA10314\_SSS-O

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 14.30 mm**

~45° + 15° oval beam optimized for Seoul P4. Assembly with black holder and installation tape.

#### FA10667\_CXP-SS



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.15 mm**

~15° smooth spot beam optimized for CREE XP-E. Assembly with black holder.

#### FA11235\_NIS53-M

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.00 mm**

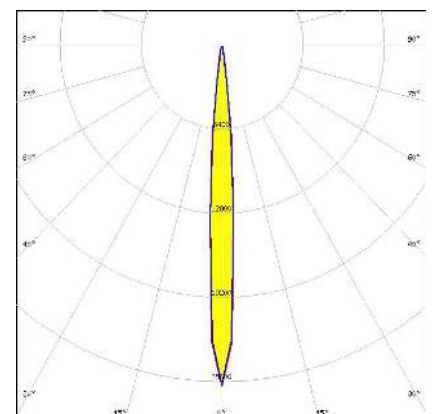
~30° medium beam optimized for Nichia NS9x153. Assembly with black holder.

#### CA10559\_OSS-2-D

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

PMMA lens with ~16° diffused spot beam optimized for Osram Golden Dragon+. Assembly with white holder.

#### FCX10856\_RES-RS



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

~11° spot beam for LUXEON Rebel. Assembly with white holder.

### PRODUCTS:

**CA12125\_NIS83-2-O**

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.50 mm**

~45° + 15° oval beam optimized for Nichia NS6x83. Assembly with black holder.

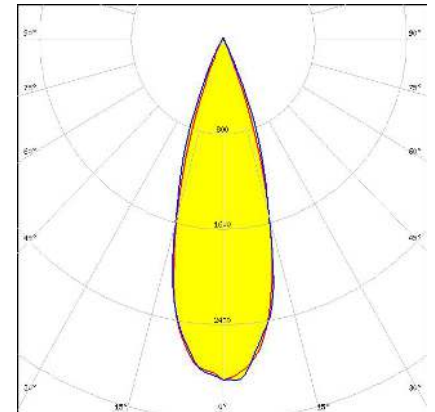
**FA10312\_SSS-D**

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 14.30 mm**

~16° diffused spot beam optimized for Seoul P4. Assembly with black holder.

**FA10665\_CXP-M**



**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.15 mm**

~30° medium beam optimized for CREE XP-E. Assembly with black holder.

**FA11233\_NIS53-SS**

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.00 mm**

~15° smooth spot beam optimized for Nichia NS9x153. Assembly with black holder.

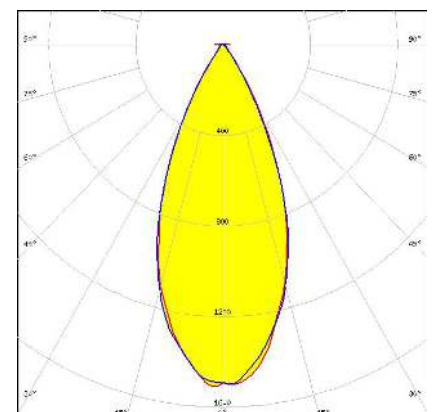
**CA13624\_G2-NIS83-MX-2-O-90**

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.50 mm**

~45° + 15° oval beam optimized for Nichia NS6x83. Variant with beam direction rotated 90°. G2 assembly with light, white holder.

**FA10344\_NIS83-MX-W**



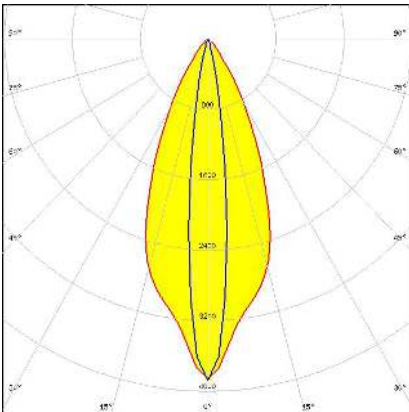
**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.50 mm**

~50° wide beam optimized for Nichia NS6x83. Assembly with white holder.

### PRODUCTS:

#### FCX10854\_RES-O



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

~45° + 15° oval beam for LUXEON Rebel. Assembly with white holder.

#### CA12123\_NIS83-2-SS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~15° smooth spot beam optimized for Nichia NS6x83. Assembly with black holder.

#### FA10310\_K2S-O

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 15.60 mm**

~43° + 15° oval beam optimized for LUXEON K2. Assembly with transparent holder.

#### CA10611\_NIS83-MX-2-O

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~45° + 15° oval beam optimized for Nichia NS6x83. Assembly with white holder.

#### FA11155\_CMC-O-90

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.80 mm**

~13° + 45° oval beam optimized for CREE MC-E. Variant with beam direction rotated 90°. Assembly with black holder.

#### CA13622\_G2-NIS83-MX-2-O

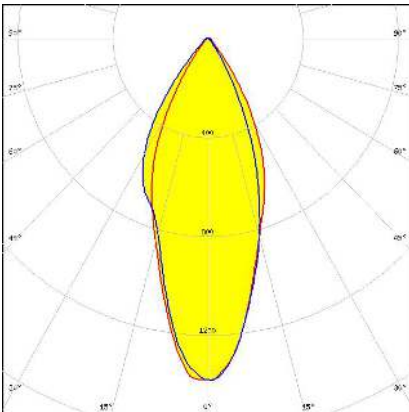
**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~45° + 15° oval beam optimized for Nichia NS6x83. G2 assembly with light, white holder.



### PRODUCTS:

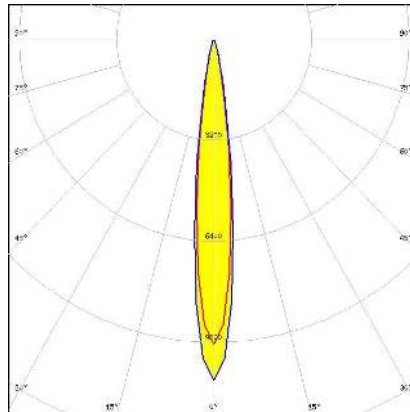
#### FA10342\_OSS-W



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

~50° wide beam optimized for Osram Golden Dragon+. Assembly with white holder.

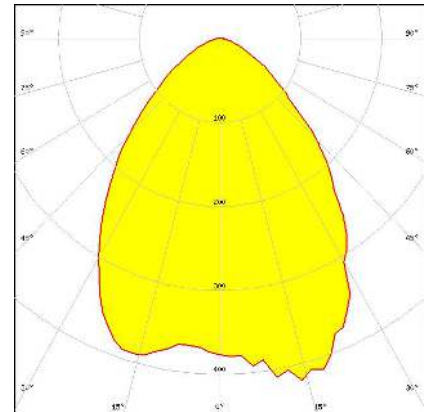
#### FCX10852\_RES-D



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

~16° diffused spot beam optimized for LUXEON Rebel. Assembly with white holder.

#### CA12081\_OSS-2-WWW



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

~80° wide beam optimized for Osram Golden Dragon+. Assembly with white holder.

#### FA10308\_K2S-D

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 15.60 mm**

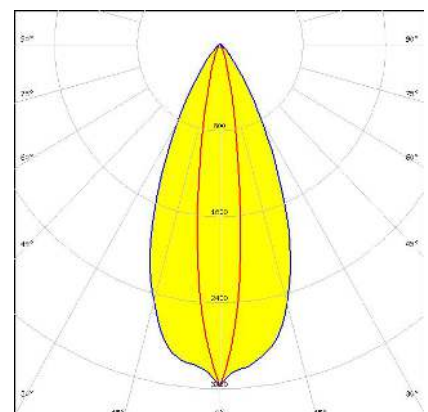
~16° diffused spot beam optimized for LUXEON K2. Assembly with transparent holder.

#### CA10609\_NIS83-MX-2-SS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~15° smooth spot beam optimized for Nichia NS6x83. Assembly with white holder.

#### FA11151\_NIS83-MX-O-90

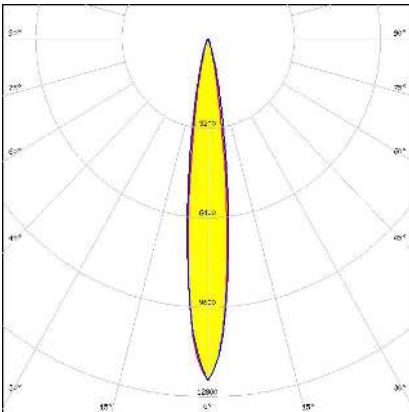


**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~13° + 45° oval beam optimized for Nichia NS6x83. Variant with beam direction rotated 90°. Assembly with white holder.

### PRODUCTS:

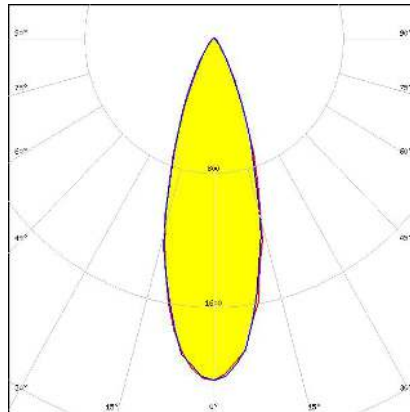
#### CA13620\_G2-NIS83-MX-2-SS



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~15° smooth spot beam optimized for Nichia NS6x83. G2 assembly with light, white holder.

#### FA10339\_NIS83-MX-M



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

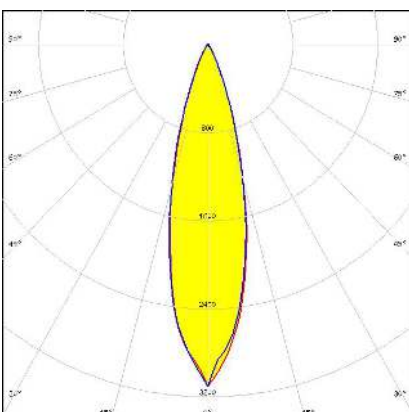
~30° medium beam optimized for Nichia NS6x83. Assembly with white holder and installation tape.

#### FA10714\_CMC-W

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.80 mm**

~50° wide beam optimized for CREE MC-E. Assembly with black holder.

#### FA11911\_CXM-M



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

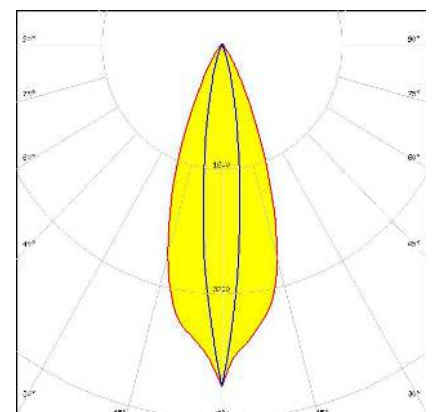
~30° medium beam optimized for CREE XM-L. Assembly with white holder.

#### FCA10306\_CRS-O

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.80 mm**

~45° + 15° oval beam optimized for CREE XR-E. Assembly with grey holder.

#### CA10596\_NIS036-2-O



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.00 mm**

~45° + 15° oval beam optimized for Nichia NJSx036. Assembly with white holder.

### PRODUCTS:

**FA11147\_CRS-O-90**

**CA13617\_G2-OSS-2-WWW**

**FA10337\_NIS83-MX-SS**

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.80 mm**

~13° + 45° oval beam optimized for CREE XR-E. Variant with beam direction rotated 90°. Assembly with white holder.

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

~80° very wide beam optimized for Osram Golden Dragon+. G2 assembly with light, white holder.

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~15° smooth spot beam optimized for Nichia NS6x83. Assembly with white holder and installation tape.

**FA10680\_CMC-O**

**FA11909\_CXM-RS**

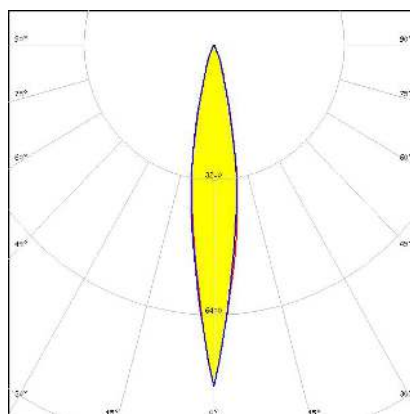
**FCA10304\_CRS-D**

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.80 mm**

~45° + 15° oval beam optimized for CREE MC-E. Assembly with black holder.

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

~11° spot beam optimized for CREE XM-L. Assembly with white holder.



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.80 mm**

~16° diffused spot beam optimized for CREE XR-E. Assembly with grey holder.

### PRODUCTS:

**CA10594\_NIS036-2-SS**

**FCA10939\_NIS036-W**

**CA13614\_G2-OSS-2-M**

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.00 mm**

~15° smooth spot beam optimized for Nichia NJSx036. Assembly with white holder.

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.00 mm**

~50° wide beam optimized for Nichia NJSx036. Assembly with white holder.

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.90 mm**

~25° medium beam optimized for Osram Golden Dragon+. G2 assembly with light, white holder.

**FA10330\_SSS-SS**

**FA10678\_CMC-SS**

**CA11839\_NIS83-MX-2-M**

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 14.30 mm**

~15° smooth spot beam optimized for Seoul P4. Assembly with black holder.

**Dimensions: 21.6 mm x 21.6 mm**

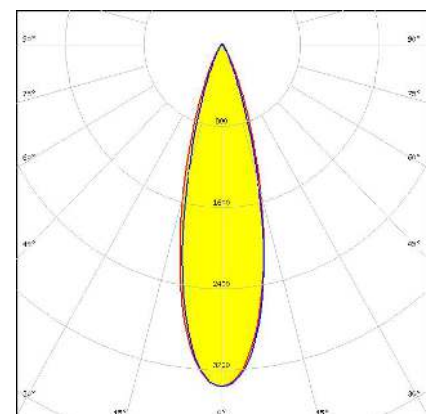
**Height: 13.80 mm**

~15° smooth spot beam optimized for CREE MC-E. Assembly with black holder.

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.50 mm**

~30° medium beam optimized for Nichia NS6x83. Assembly with white holder.



### PRODUCTS:

**FA10302\_OSS-O**

**CA10592\_NIS036-2-M**

**FCA10937\_NIS036-M**

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.90 mm**

~45° + 15° oval beam optimized for Osram Golden Dragon+. Assembly with white holder.

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.00 mm**

~30° medium beam optimized for Nichia NJSx036. Assembly with white holder.

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.00 mm**

~30° medium beam optimized for Nichia NJSx036. Assembly with white holder.

**CA13612\_G2-OSS-2-SS**

**FCA10328\_CRS-SS**

**FA10676\_CMC-M**

**Dimensions: 21.6 mm x 21.6 mm**

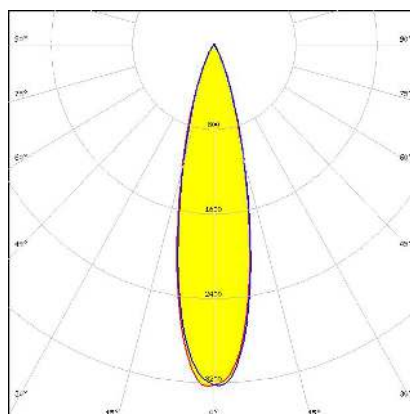
**Height: 13.90 mm**

~15° smooth spot beam optimized for Osram Golden Dragon+. G2 assembly with light, white holder.

**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.80 mm**

~15° smooth spot beam optimized for CREE XR-E. Assembly with grey holder.



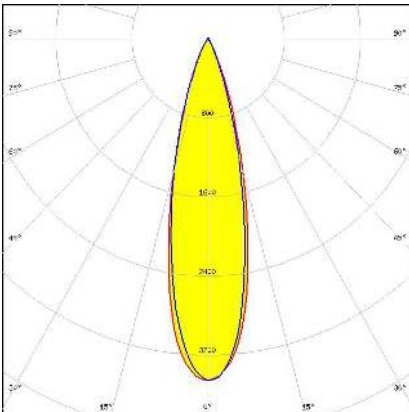
**Dimensions: 21.6 mm x 21.6 mm**

**Height: 13.80 mm**

~30° medium beam optimized for CREE MC-E. Assembly with black holder.

### PRODUCTS:

#### FA11540\_NIS83-MX-MD



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

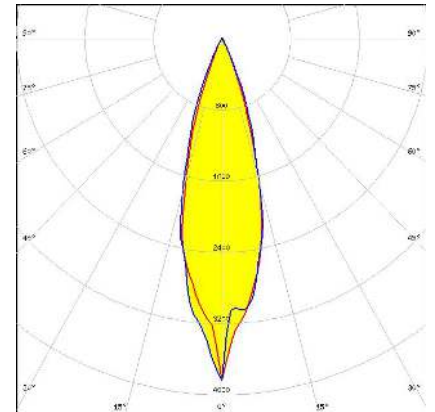
~25° medium beam optimized for Nichia NS6x83. Assembly with white holder.

#### FA10300\_OSS-D

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

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

#### CA10569\_OSS-2-M



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

~30° medium beam optimized for Osram Golden Dragon+. Assembly with white holder.

#### FCA10935\_NIS036-SS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.00 mm**

~15° smooth spot beam optimized for Nichia NJSx036. Assembly with white holder.

#### CA13609\_G2-OSS-2-M

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

~25° medium beam optimized for Osram Golden Dragon+. G2 assembly with light, white holder.

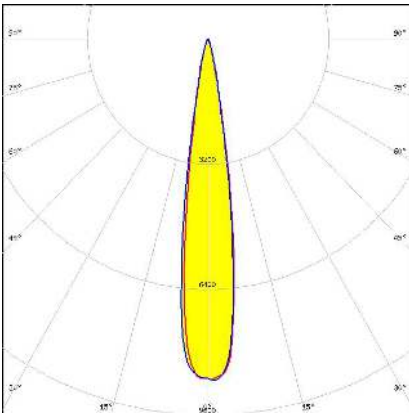
#### FA10323\_K2S-W

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 15.60 mm**

~50° wide beam optimized for LUXEON K2. Assembly with transparent holder.

### PRODUCTS:

#### FA10668\_CXP-RS



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.15 mm**

~11° spot beam optimized for CREE  
XP-E. Assembly with black holder.

#### FA11236\_NIS53-O

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.00 mm**

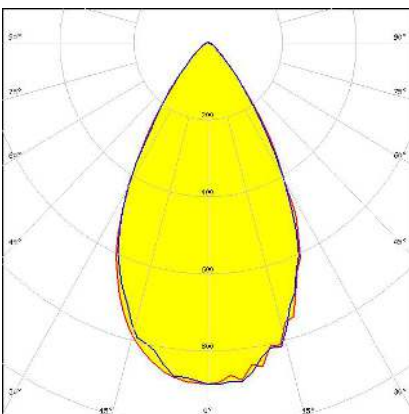
~45° + 15° oval beam optimized for  
Nichia NS9x153. Assembly with black  
holder.

#### CA10560\_OSS-2-SS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.90 mm**

PMMA lens with ~15° smooth spot beam  
optimized for Osram Golden Dragon+.  
Assembly with white holder.

#### FA10903\_NIS83-MX-WW



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~60° wide beam optimized for Nichia  
NS6x83. Assembly with white holder.

#### CA12126\_NIS83-2-M

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~30° medium beam optimized for Nichia  
NS6x83. Assembly with black holder.

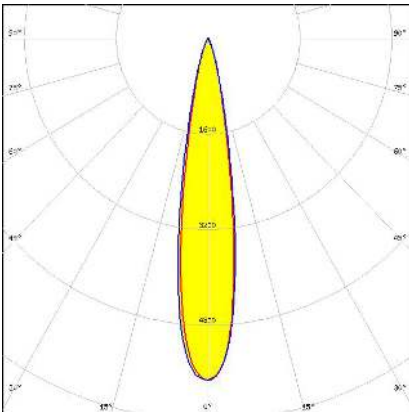
#### FA10313\_SSS-M

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 14.30 mm**

~30° medium beam optimized for Seoul  
P4. Assembly with black holder.

### PRODUCTS:

#### FA10666\_CXP-D



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.15 mm**

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

#### FA11234\_NIS53-D

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.00 mm**

~16° diffused spot beam optimized for  
Nichia NS9x153. Assembly with black  
holder.

#### FCA13625\_FG2-NIS83-MX-O-90

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

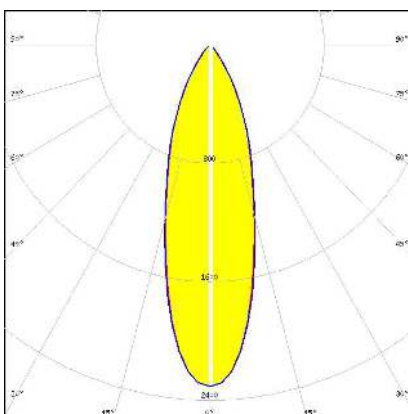
~13° + 44° oval beam optimized for  
Nichia NS6x83. Variant with beam  
direction rotated 90°. G2 assembly with  
light, white holder.

#### FA10539\_SSS-W

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 14.30 mm**

~50° wide beam optimized for Seoul P4.  
Assembly with black holder.

#### FCX10855\_RES-W



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

~50° wide beam for LUXEON Rebel.  
Assembly with white holder.

#### CA12124\_NIS83-2-RS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~11° spot beam optimized for Nichia  
NS6x83. Assembly with black holder.



### PRODUCTS:

**FA10311\_SSS-RS**

**CA10624\_NIS036-2-W**

**FCA11160\_NIS036-O-90**

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 14.30 mm**

~11° spot beam optimized for Seoul P4.  
Assembly with black holder.

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.00 mm**

~50° wide beam optimized for Nichia  
NS6x83. Assembly with white holder.

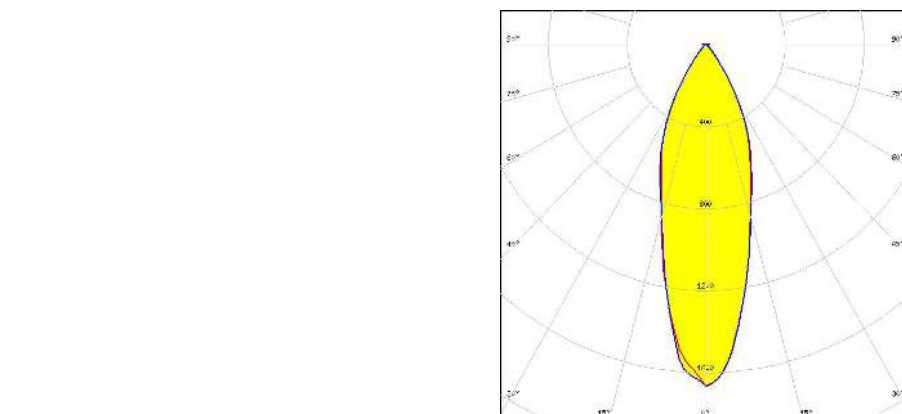
**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 14.15 mm**

~13° + 45° oval beam optimized for  
Nichia NJSx036. Variant with beam  
direction rotated 90°. Assembly with  
white holder.

**CA13623\_G2-NIS83-MX-2-M**

**FA10343\_CRS-WW**

**FCX10853\_RES-SS**

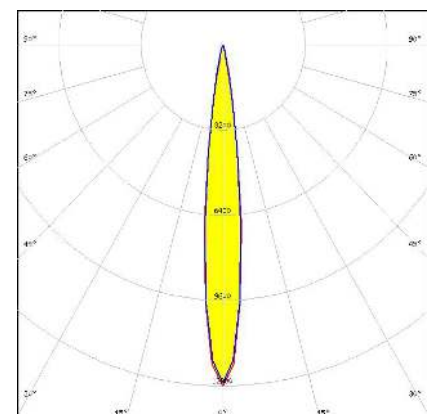


**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~25° medium beam optimized for Nichia  
NS6x83. G2 assembly with light, white  
holder.

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 14.54 mm**

~60° wider beam optimized for CREE  
XR-E. Assembly with grey holder.



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

~15° smooth spot beam optimized for  
LUXEON Rebel. Assembly with white  
holder.

### PRODUCTS:

CA12122\_NIS83-2-D

FA10309\_K2S-M

CA10610\_NIS83-MX-2-RS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~16° diffused spot beam optimized for Nichia NS6x83. Assembly with black holder.

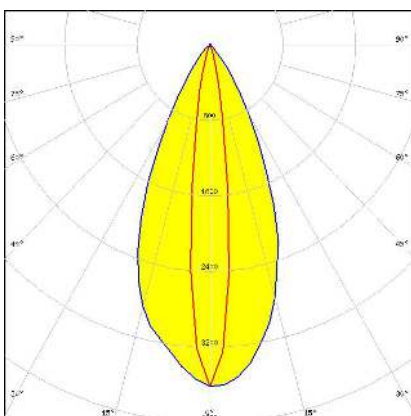
**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 15.60 mm**

~30° medium beam optimized for LUXEON K2. Assembly with transparent holder.

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~11° spot beam optimized for Nichia NS6x83. Assembly with white holder.

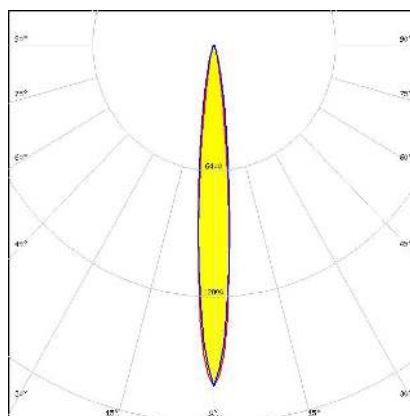
FA11153\_CXP-O-90



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.15 mm**

~13° + 45° oval beam optimized for CREE XP-E. Variant with beam direction rotated 90°. Assembly with black holder.

CA13621\_G2-NIS83-MX-2-RS



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~11° spot beam optimized for Nichia NS6x83. G2 assembly with light, white holder.

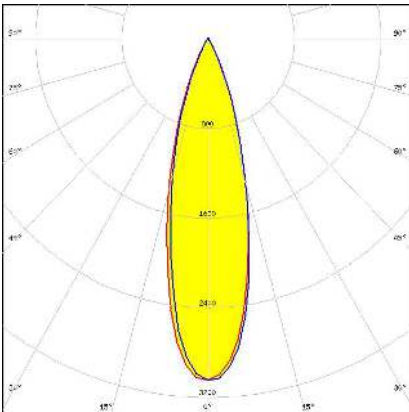
FA10340\_NIS83-MX-O

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~45° x 15° oval beam optimized for Nichia NS6x83. Assembly with 13.5 mm high white holder.

### PRODUCTS:

#### FCX10851\_RES-M



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

~30° medium beam optimized for LUXEON Rebel. Assembly with white holder.

#### FA11912\_CXM-O

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 12.90 mm**

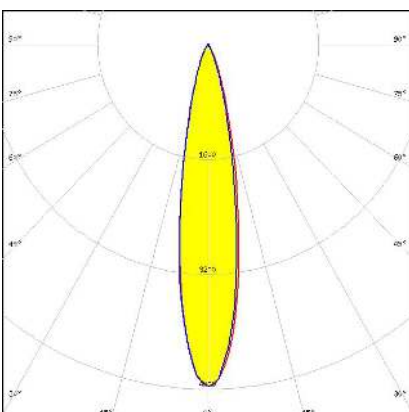
~45° + 15° oval beam optimized for CREE XM-L. Assembly with white holder.

#### FA10307\_K2S-RS

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 15.60 mm**

~11° spot beam optimized for LUXEON K2. Assembly with transparent holder.

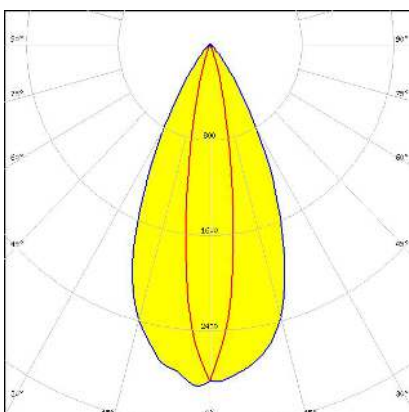
#### CA10608\_NIS83-MX-2-D



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~16° diffused spot beam optimized for Nichia NS6x83. Assembly with white holder.

#### 4FA11149\_SSS-O-90



**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 14.87 mm**

~13° + 45° oval beam optimized for Seoul P4. Variant with beam direction rotated 90°. Assembly with black holder.

#### CA13619\_G2-NIS83-MX-2-D

**Dimensions: 21.6 mm x 21.6 mm**  
**Height: 13.50 mm**

~16° diffused spot beam optimized for Nichia NS6x83. G2 assembly with light, white holder.

### 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.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Salo, Finland  
Hong Kong, China

#### Distribution Partners

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)