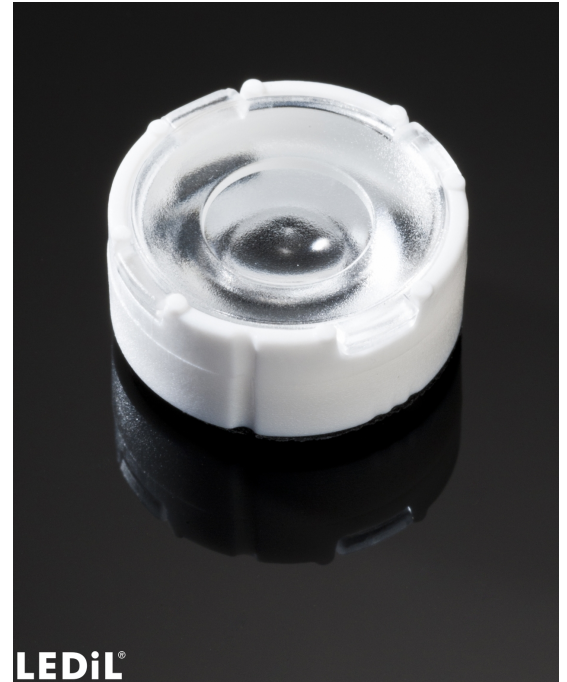


TINA3-WW

~55° wide beam. Assembly with holder, installation tape and location pins.

SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	6.9 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

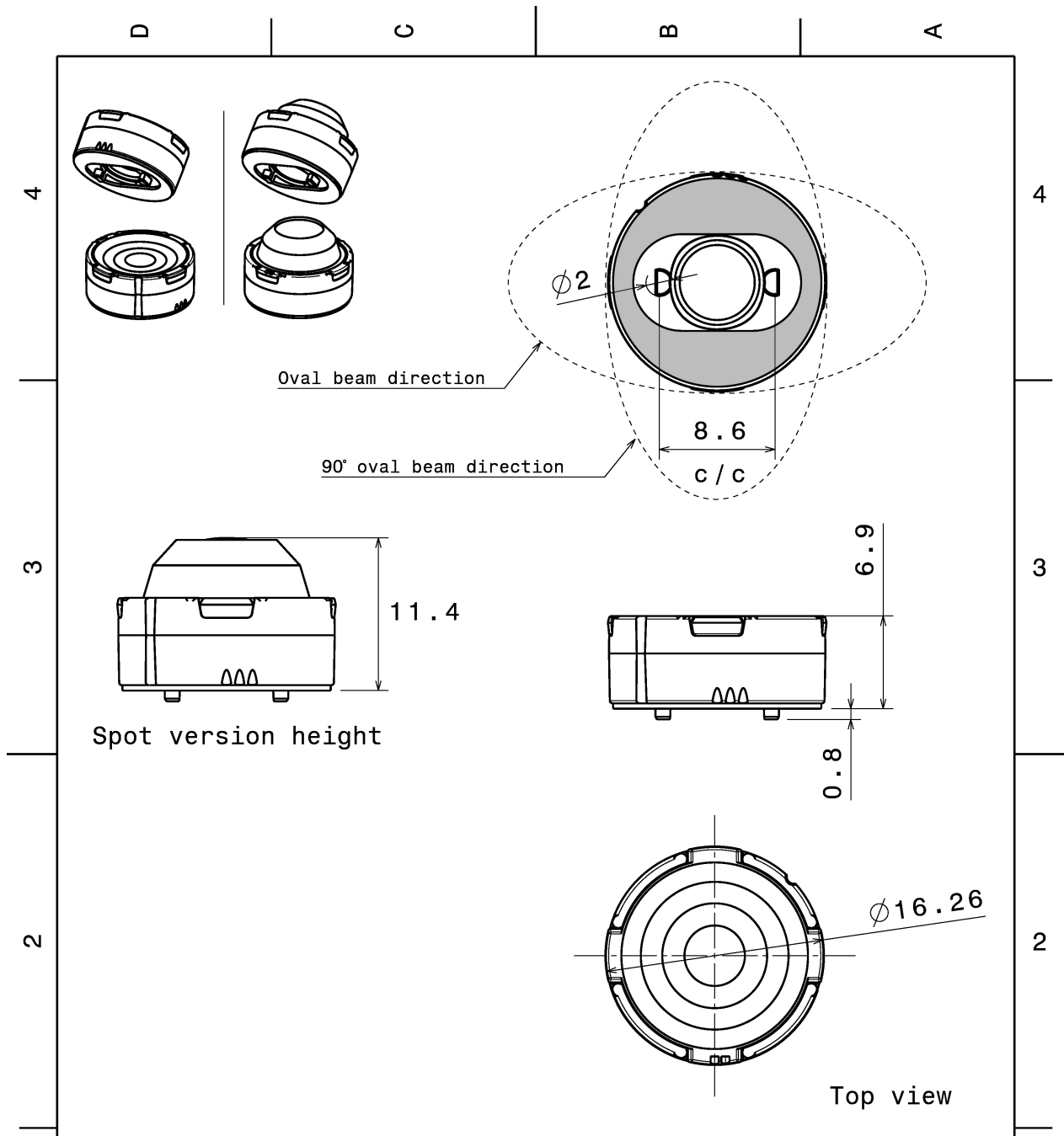


MATERIALS:

Component	Type	Material	Colour	Finish
TINA3-WW	Single lens	PMMA	clear	
TINA3-HLD-PIN-TAPE	Holder	PC	white	
TINA-TAPE3	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12427_TINA3-WW	Single lens	5750	230	230	8.4
» Box size: 451 x 241 x 298 mm					



Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class F, otherwise class M.
According to DIN ISO 2768-2
Form and position: class K

LEDiL LediL Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
TINA3 Datasheet

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SIZE	PART NUMBER
A4	-

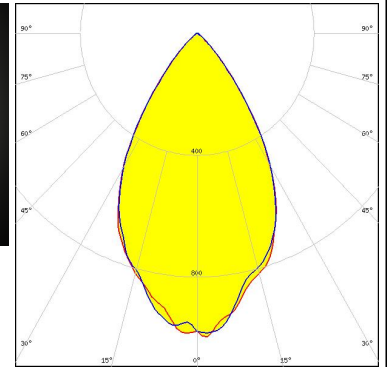
SCALE	4:3	WEIGHT	-	SHEET	1/1
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See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

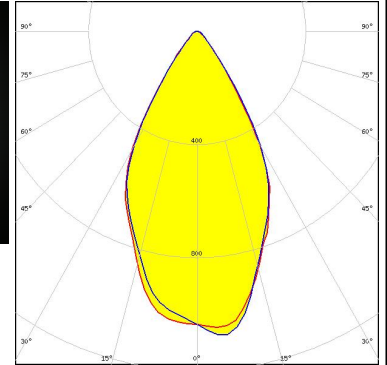
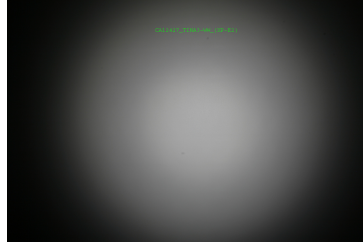
CREE LED

LED XHP35 HI
 FWHM / FWTM 60.0° / 94.0°
 Efficiency 92 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



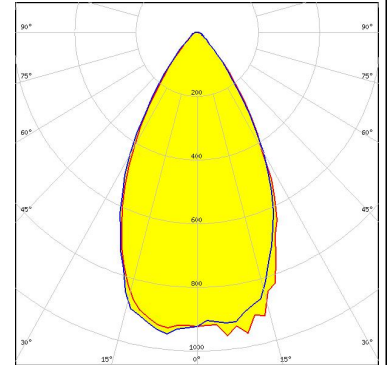
CREE LED

LED XP-E2
 FWHM / FWTM 58.0° / 84.0°
 Efficiency 89 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



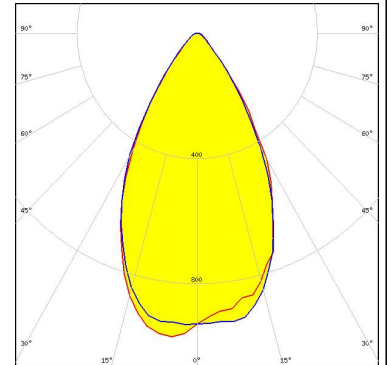
CREE LED

LED XP-G
 FWHM / FWTM 58.0° / 88.0°
 Efficiency 89 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

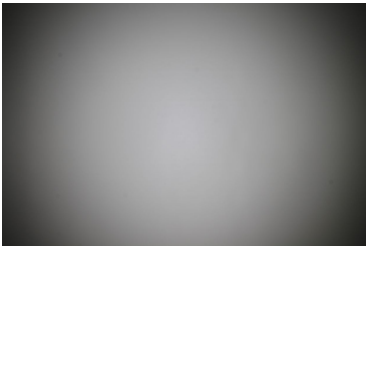
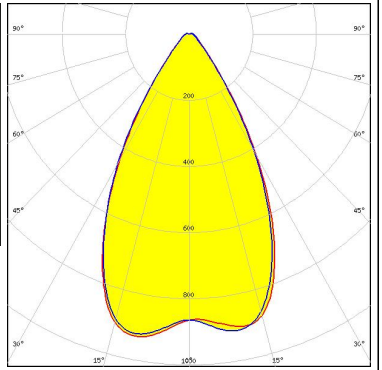

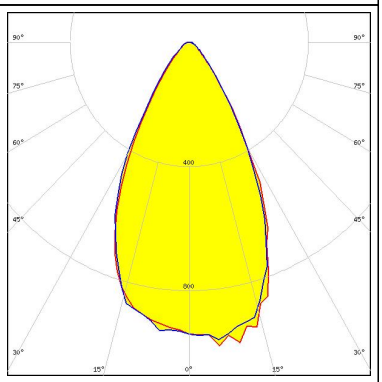

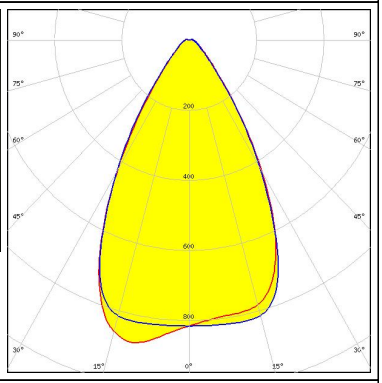

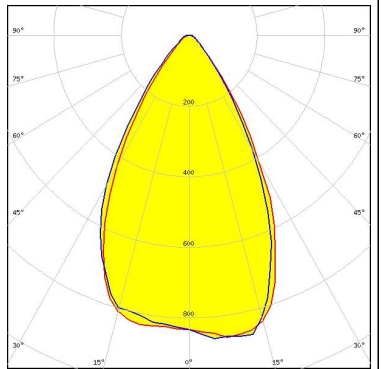


CREE LED

LED XP-G2
 FWHM / FWTM 59.0° / 89.0°
 Efficiency 90 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



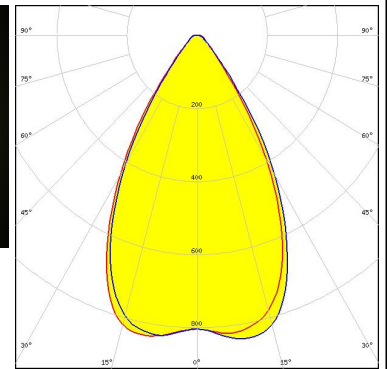
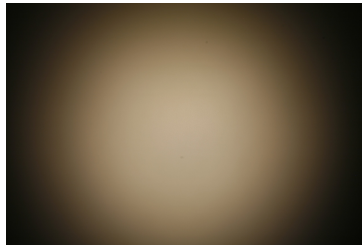
OPTICAL RESULTS (MEASURED):

<p>CREE → LED</p> <p>LED: XP-L HI FWHM / FWTM: 58.0° / 87.0° Efficiency: 92 % Peak intensity: 0.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>CREE → LED</p> <p>LED: XT-E FWHM / FWTM: 56.0° / 86.0° Efficiency: 87 % Peak intensity: 1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON 2835 Line FWHM / FWTM: 60.0° / 92.0° Efficiency: 92 % Peak intensity: 0.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON A FWHM / FWTM: 58.0° / 88.0° Efficiency: 89 % Peak intensity: 0.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		

OPTICAL RESULTS (MEASURED):

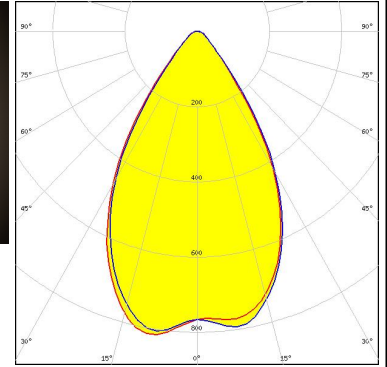
LUMILEDS

LED LUXEON T
 FWHM / FWTM 61.0° / 90.0°
 Efficiency 87 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



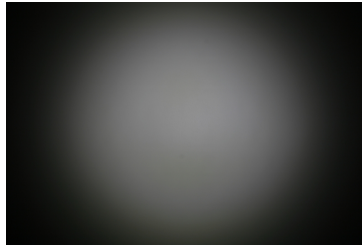
LUMILEDS

LED LUXEON TX
 FWHM / FWTM 63.0° / 93.0°
 Efficiency 87 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



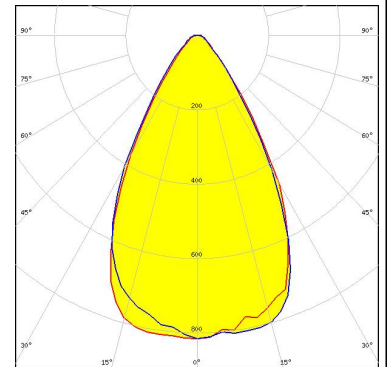
NICHIA

LED NF2x757A
 FWHM / FWTM 60.0° / 92.0°
 Efficiency 85 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



NICHIA

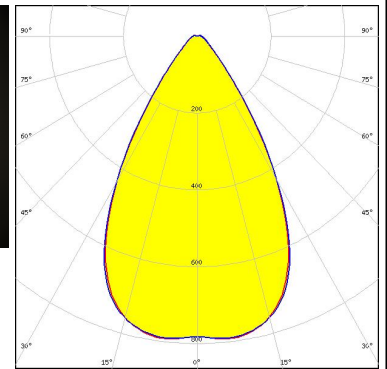
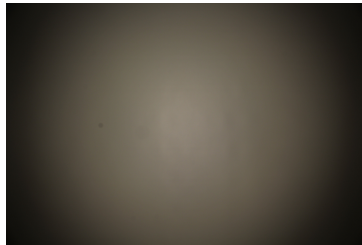
LED NVSxx19A
 FWHM / FWTM 62.0° / 94.0°
 Efficiency 86 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



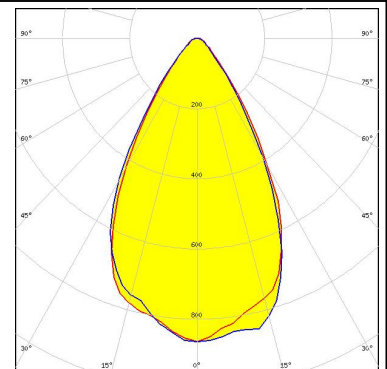
OPTICAL RESULTS (MEASURED):



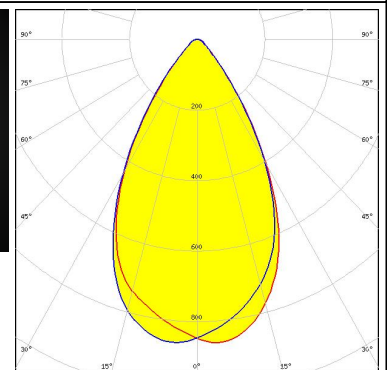
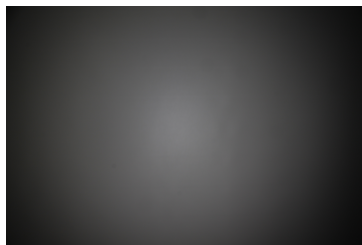
LED NVSxx19B/NVSxx19C
 FWHM / FWTM 62.0° / 93.0°
 Efficiency 91 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



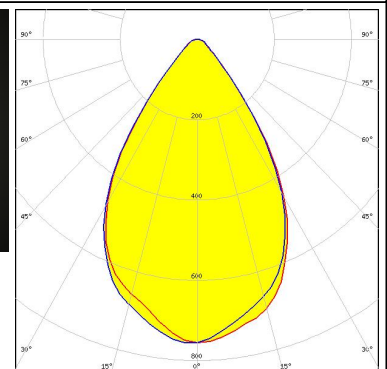
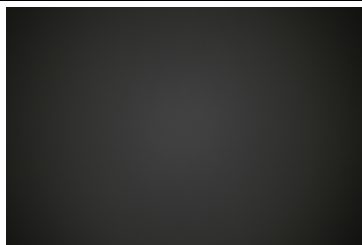
LED OSLOM Square EC
 FWHM / FWTM 58.0° / 91.0°
 Efficiency 87 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LH351B
 FWHM / FWTM 59.0° / 91.0°
 Efficiency 87 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LH351Z
 FWHM / FWTM 68.0° / 96.0°
 Efficiency 88 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

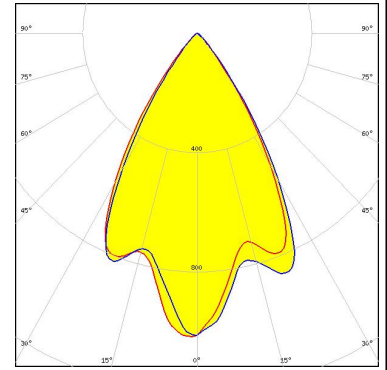
<p>LUMILEDS</p> <p>LED LUXEON H50-2 FWHM / FWTM 64.0° / 82.0° Efficiency 87 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NCSxE17A FWHM / FWTM 60.0° / 81.0° Efficiency 80 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NF2x757G FWHM / FWTM 57.0° / 89.0° Efficiency 88 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSxE21A FWHM / FWTM 62.0° / 92.0° Efficiency 90 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

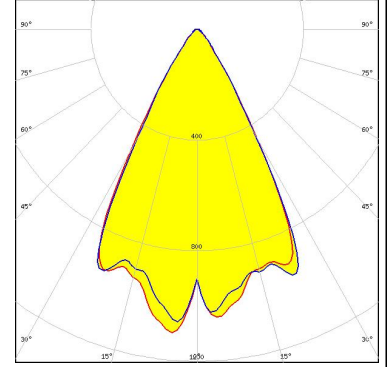
LED OSLON SSL 120
 FWHM / FWTM 61.0° / 83.0°
 Efficiency 87 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour Amber
 Required components:



OSRAM

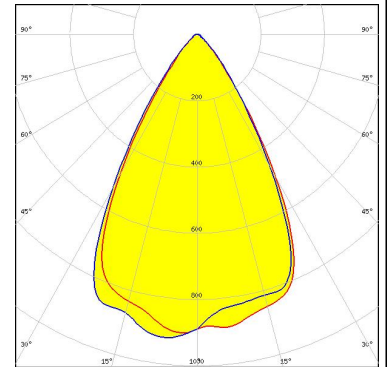
Opto Semiconductors

LED SYNIOS S2222
 FWHM / FWTM 58.0° / 78.0°
 Efficiency 95 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



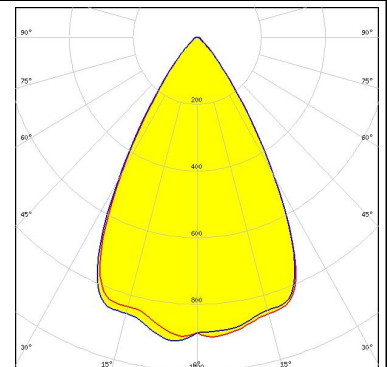
SAMSUNG

LED LM28xB Series
 FWHM / FWTM 62.0° / 88.0°
 Efficiency 92 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:




SAMSUNG

LED LM301B
 FWHM / FWTM 62.0° / 87.0°
 Efficiency 92 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

 SEOUL SEMICONDUCTOR		
LED	Z5M1/Z5M2	
FWHM / FWTM	61.0° / 86.0°	
Efficiency	94 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
 SEOUL SEMICONDUCTOR		
LED	Z8Y22P	
FWHM / FWTM	62.0° / 92.0°	
Efficiency	92 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		

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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