

DAISY-7X1-W-D

~50° wide beam. Variant with diffused lenses.

SPECIFICATION:

Dimensions	279.5 x 39.6 mm
Height	20.3 mm
Fastening	pin, screw, clips
ROHS compliant	yes ⓘ

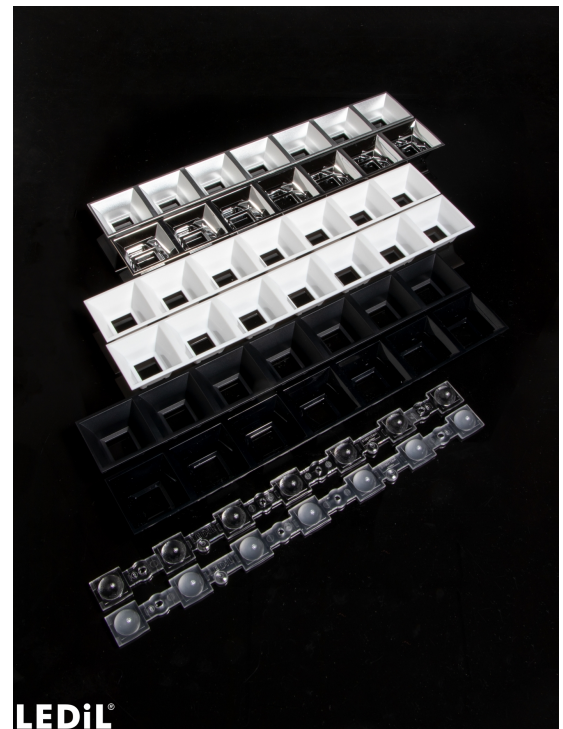
MATERIALS:

Component	Type	Material	Colour	Finish
C17362_DAISY-7X1-W-D	Linear lens	PMMA	milky	
C18409_DAISY-7X1-SHD-MET-MATT	Shade	PC	metal	matt
C18167_DAISY-7X1-SHD-MET	Shade	PC	metal	gloss
C17225_DAISY-7X1-SHD-WHT-MATT	Shade	PC	white	matt
C17051_DAISY-7X1-SHD-MATT	Shade	PC	black	matt
C16876_DAISY-7X1-SHD-WHT	Shade	PC	white	gloss
C16872_DAISY-7X1-SHD	Shade	PC	black	gloss

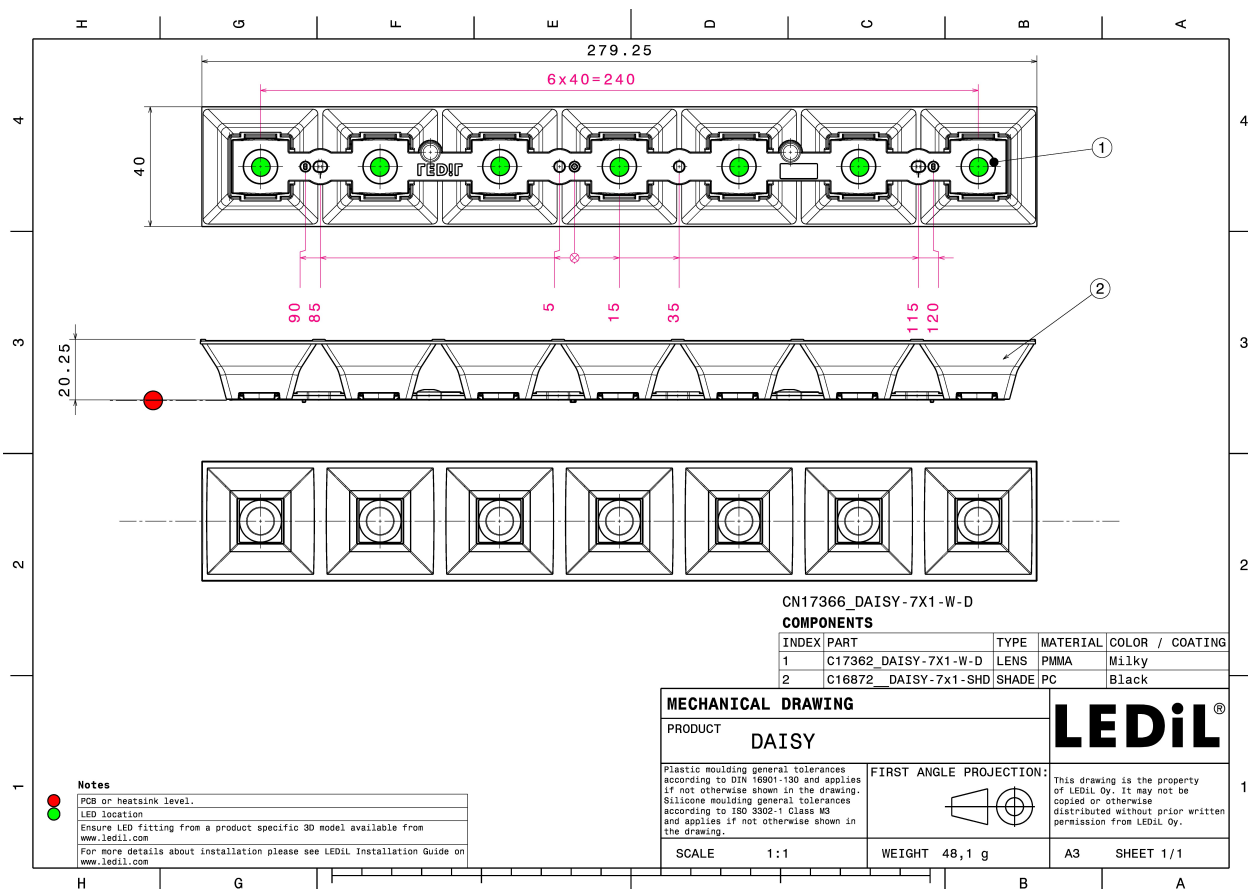
ORDERING INFORMATION:

Quantities for one set:

Linear lens	1
Shade	1



Component		Qty in box	MOQ	MPQ	Box weight (kg)
C17362_DAISY-7X1-W-D » Box size: 400 x 300 x 300 mm	Linear lens	312	312	24	6.3
C16876_DAISY-7X1-SHD-WHT » Box size: 595 x 360 x 230 mm	Shade	156	312	24	7.6
C18167_DAISY-7X1-SHD-MET » Box size: 595 x 360 x 230 mm	Shade	156	312	24	7.0
C17051_DAISY-7X1-SHD-MATT » Box size: 595 x 360 x 230 mm	Shade	156	312	24	7.3
C18409_DAISY-7X1-SHD-MET-MATT » Box size: 595 x 360 x 230 mm	Shade	156	312	24	7.0
C17225_DAISY-7X1-SHD-WHT-MATT » Box size: 595 x 360 x 230 mm	Shade	156	312	24	7.6
C16872_DAISY-7X1-SHD » Box size: 595 x 360 x 230 mm	Shade	156	312	24	7.1

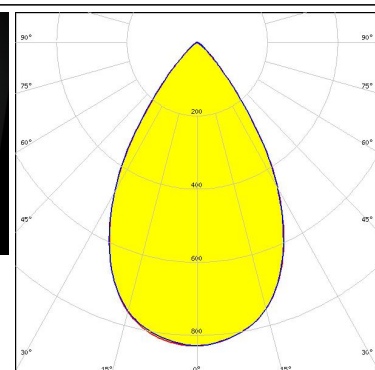
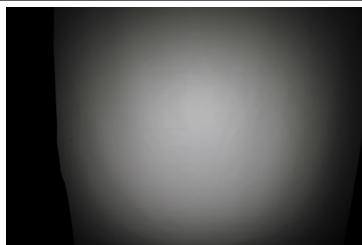


See also our general installation guide: www.ledil.com/installation_guide

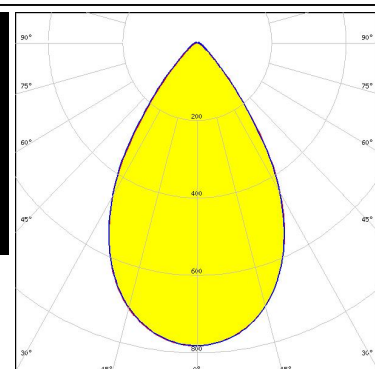
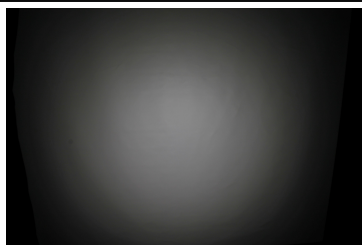
OPTICAL RESULTS (MEASURED):



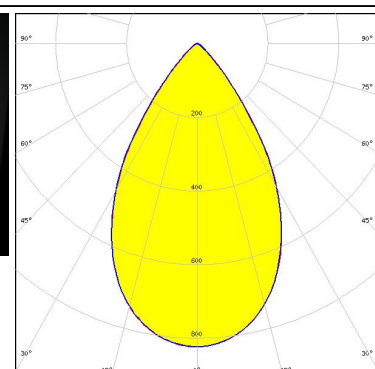
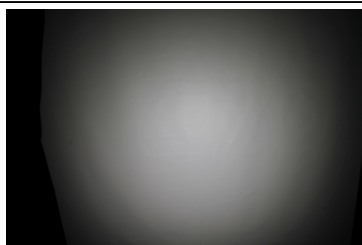
LED LIGHT ENGINE DAISY 28 LEDs 277.5mm x 20mm
FWHM / FWTM 64.0° / 90.0°
Efficiency 90 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C18167_DAISSY-7X1-SHD-MET



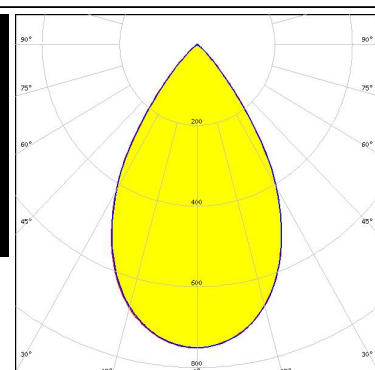
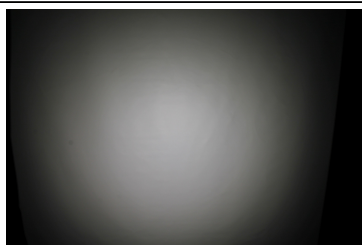
LED LIGHT ENGINE DAISY 28 LEDs 277.5mm x 20mm
FWHM / FWTM 65.0° / 92.0°
Efficiency 90 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C16876_DAISSY-7X1-SHD-WHT



LED LIGHT ENGINE DAISY 28 LEDs 277.5mm x 20mm
FWHM / FWTM 64.0° / 90.0°
Efficiency 88 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17533_DAISSY-7X1-SHD-MET-MATT



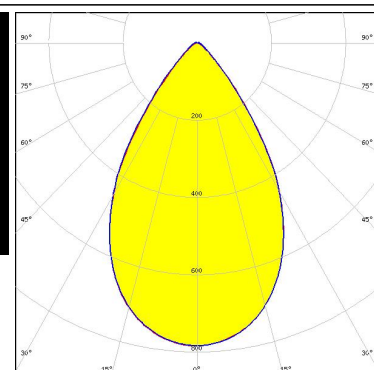
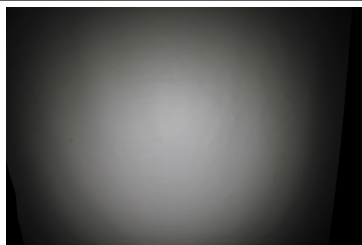
LED LIGHT ENGINE DAISY 28 LEDs 277.5mm x 20mm
FWHM / FWTM 63.0° / 88.0°
Efficiency 77 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17051_DAISSY-7X1-SHD-MATT



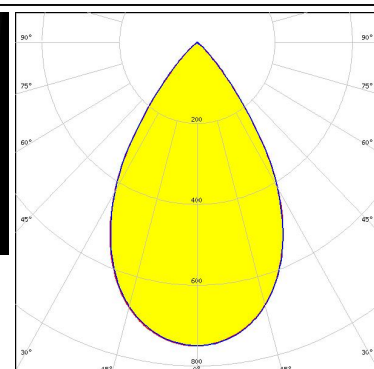
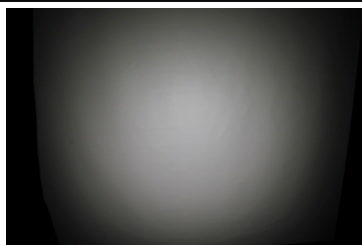
OPTICAL RESULTS (MEASURED):



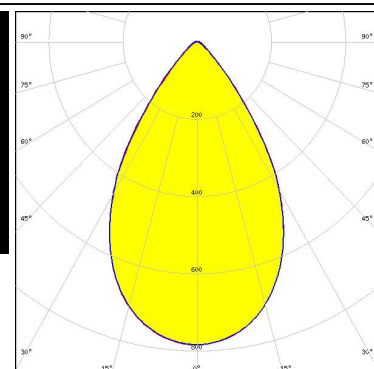
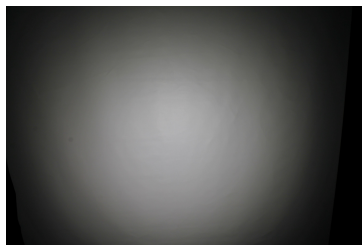
LED LIGHT ENGINE DAISY 28 LEDs 277.5mm x 20mm
 FWHM / FWTM 65.0° / 92.0°
 Efficiency 89 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:
 C17225_DAISY-7X1-SHD-WHT-MATT



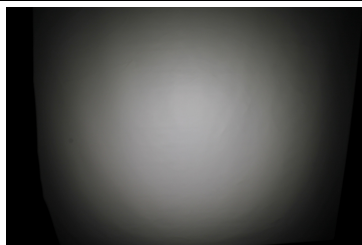
LED LIGHT ENGINE DAISY 28 LEDs 277.5mm x 20mm
 FWHM / FWTM 64.0° / 89.0°
 Efficiency 78 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:
 C16872_DAISY-7X1-SHD



LED LUXEON 2835 Line
 FWHM / FWTM 65.0° / 92.0°
 Efficiency 89 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:
 C17225_DAISY-7X1-SHD-WHT-MATT



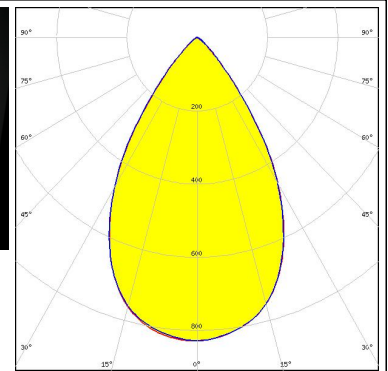
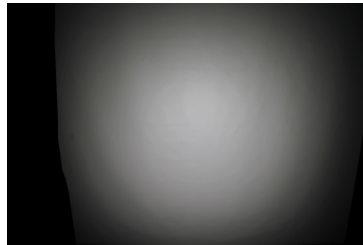
LED LUXEON 2835 Line
 FWHM / FWTM 64.0° / 89.0°
 Efficiency 78 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:
 C16872_DAISY-7X1-SHD



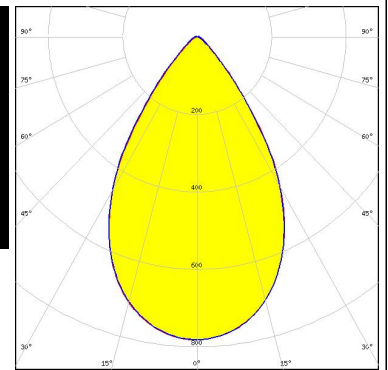
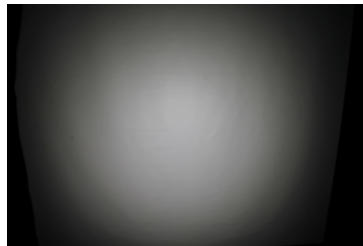
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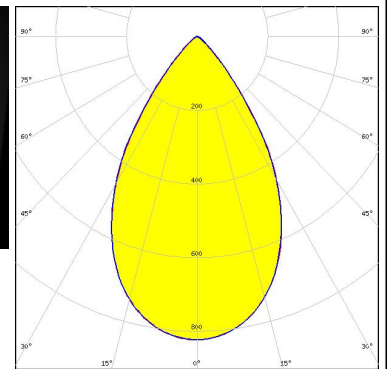
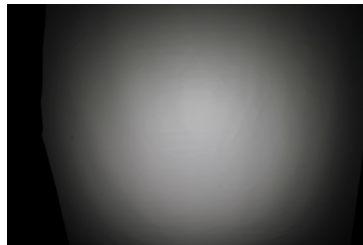
LED LUXEON 2835 Line
FWHM / FWTM 64.0° / 90.0°
Efficiency 90 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17532_DAISSY-7X1-SHD-MET



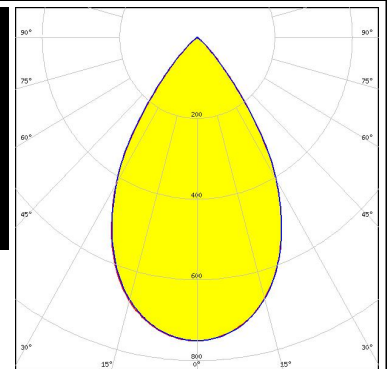
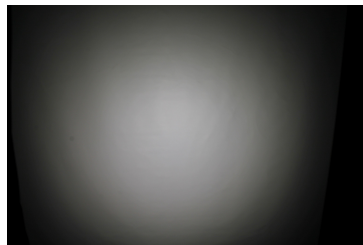
LED LUXEON 2835 Line
FWHM / FWTM 65.0° / 93.0°
Efficiency 90 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C16876_DAISSY-7X1-SHD-WHT



LED LUXEON 2835 Line
FWHM / FWTM 64.0° / 91.0°
Efficiency 88 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17533_DAISSY-7X1-SHD-MET-MATT



LED LUXEON 2835 Line
FWHM / FWTM 63.0° / 88.0°
Efficiency 77 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17051_DAISSY-7X1-SHD-MATT

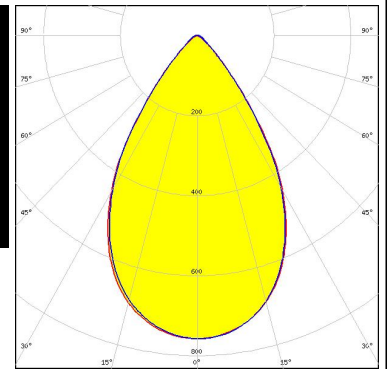
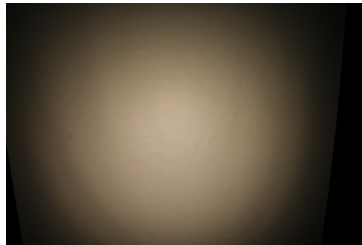


OPTICAL RESULTS (MEASURED):

MST

Your solutions

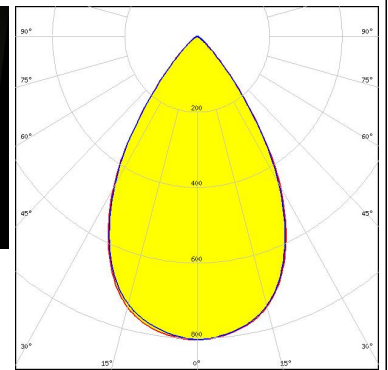
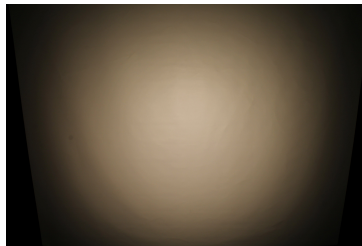
LED LinLED 280x28mm 1100lm 8x0 2C 42V Opt G1
FWHM / FWTM 65.0° / 93.0°
Efficiency 88 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17225_DAISSY-7X1-SHD-WHT-MATT



MST

Your solutions

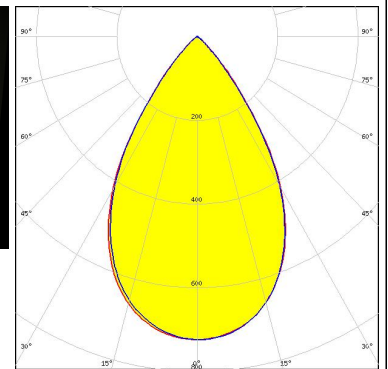
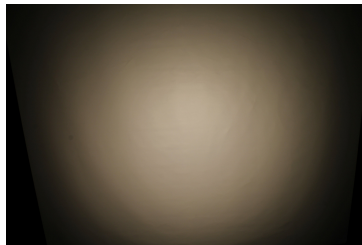
LED LinLED 280x28mm 1100lm 8x0 2C 42V Opt G1
FWHM / FWTM 64.0° / 91.0°
Efficiency 88 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C18167_DAISSY-7X1-SHD-MET



MST

Your solutions

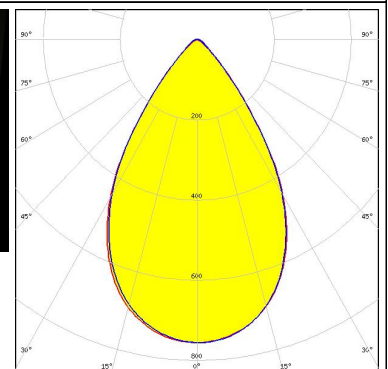
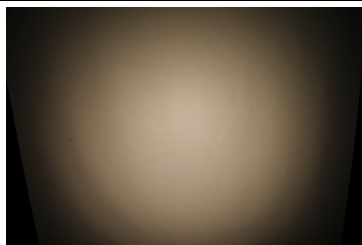
LED LinLED 280x28mm 1100lm 8x0 2C 42V Opt G1
FWHM / FWTM 64.0° / 89.0°
Efficiency 77 %
Peak intensity 0.7 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C16872_DAISSY-7X1-SHD



MST

Your solutions

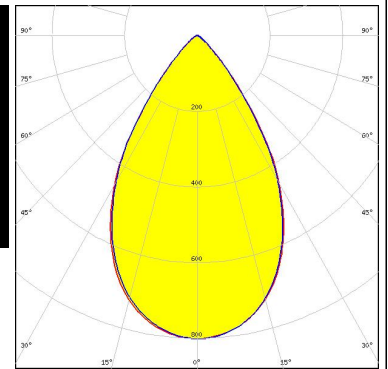
LED LinLED 280x28mm 1100lm 8x0 2C 42V Opt G1
FWHM / FWTM 65.0° / 93.0°
Efficiency 88 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C16876_DAISSY-7X1-SHD-WHT



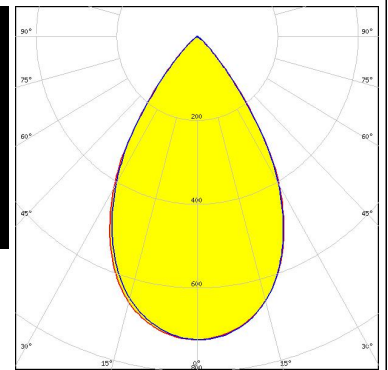
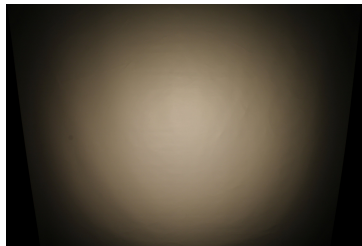
OPTICAL RESULTS (MEASURED):

MST
Your solutions

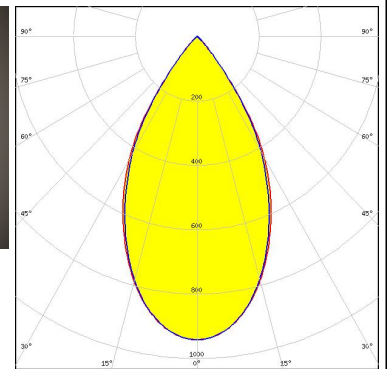
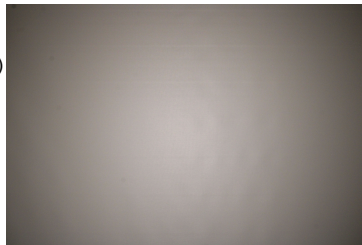
LED LinLED 280x28mm 1100lm 8x0 2C 42V Opt G1
 FWHM / FWTM 64.0° / 92.0°
 Efficiency 87 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:
 C17533_DAISSY-7X1-SHD-MET-MATT


MST
Your solutions

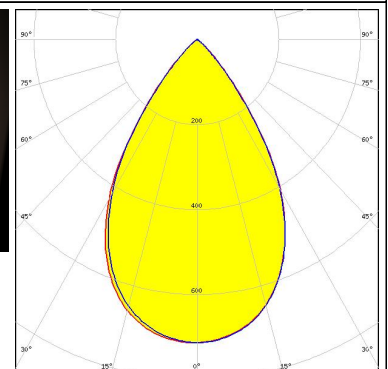
LED LinLED 280x28mm 1100lm 8x0 2C 42V Opt G1
 FWHM / FWTM 64.0° / 89.0°
 Efficiency 76 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:
 C17051_DAISSY-7X1-SHD-MATT


MST
Your solutions

LED LinLED 280x28mm 1600lm 840 4C 21V DAISY 7x1(ZT25)
 FWHM / FWTM 56.0° / 81.0°
 Efficiency 81 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16872_DAISSY-7X1-SHD


MST
Your solutions

LED LinLED 280x28mm 2x550lm 827-865 2x2C 42V Opt G1
 FWHM / FWTM 65.0° / 90.0°
 Efficiency 77 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 4
 Light colour Tunable White
 Required components:
 C16872_DAISSY-7X1-SHD

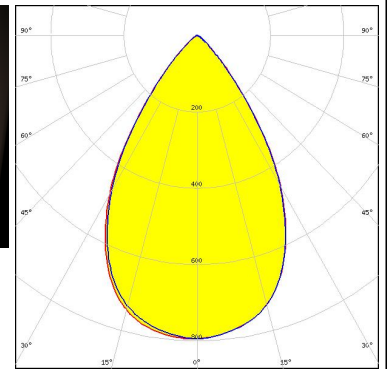
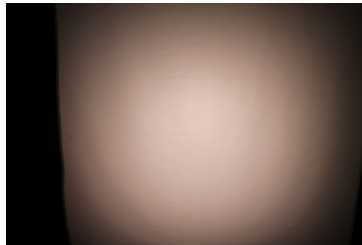


OPTICAL RESULTS (MEASURED):

MST

Your solutions

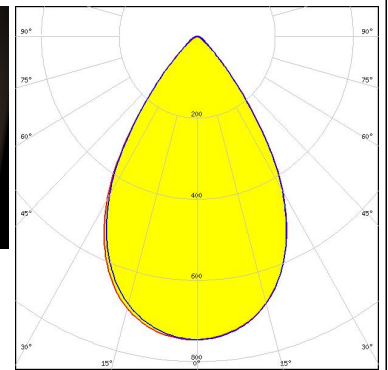
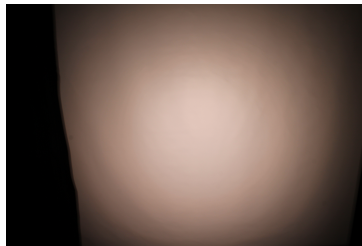
LED LinLED 280x28mm 2x550lm 827-865 2x2C 42V Opt G1
FWHM / FWTM 65.0° / 91.0°
Efficiency 89 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour Tunable White
Required components:
C18167_DAISSY-7X1-SHD-MET



MST

Your solutions

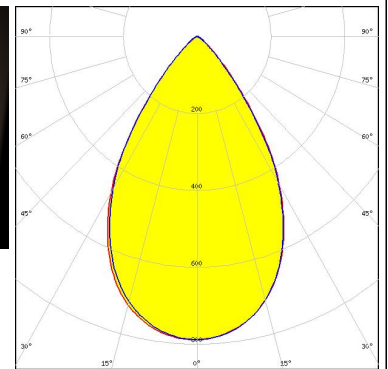
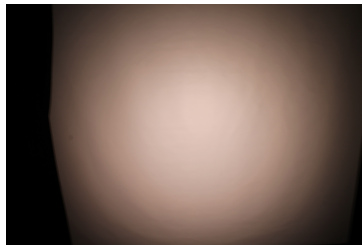
LED LinLED 280x28mm 2x550lm 827-865 2x2C 42V Opt G1
FWHM / FWTM 66.0° / 94.0°
Efficiency 89 %
Peak intensity 0.7 cd/lm
LEDs/each optic 4
Light colour Tunable White
Required components:
C16876_DAISSY-7X1-SHD-WHT



MST

Your solutions

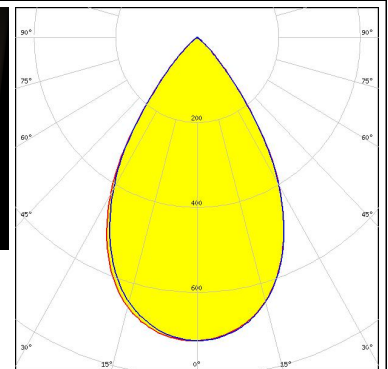
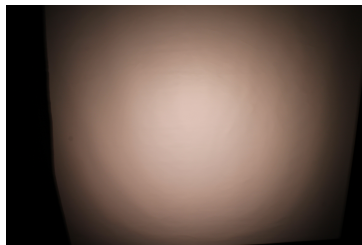
LED LinLED 280x28mm 2x550lm 827-865 2x2C 42V Opt G1
FWHM / FWTM 65.0° / 92.0°
Efficiency 87 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour Tunable White
Required components:
C17533_DAISSY-7X1-SHD-MET-MATT



MST

Your solutions

LED LinLED 280x28mm 2x550lm 827-865 2x2C 42V Opt G1
FWHM / FWTM 65.0° / 90.0°
Efficiency 76 %
Peak intensity 0.7 cd/lm
LEDs/each optic 4
Light colour Tunable White
Required components:
C17051_DAISSY-7X1-SHD-MATT

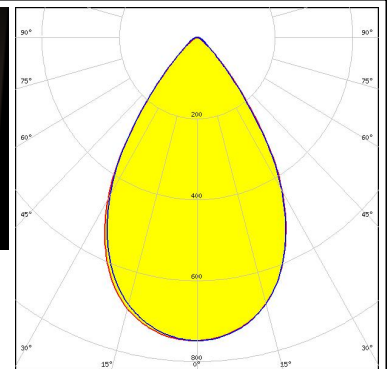
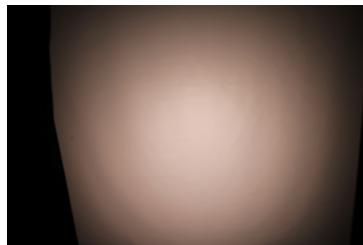


OPTICAL RESULTS (MEASURED):

MST

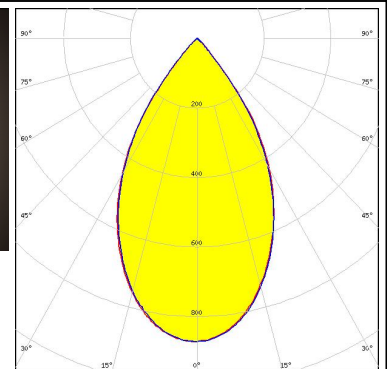
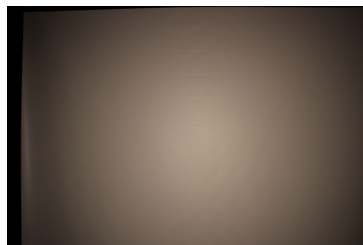
Your solutions

LED LinLED 280x28mm 2x550lm 827-865 2x2C 42V Opt G1
FWHM / FWTM 66.0° / 94.0°
Efficiency 89 %
Peak intensity 0.7 cd/lm
LEDs/each optic 4
Light colour Tunable White
Required components:
C17225_DAISSY-7X1-SHD-WHT-MATT



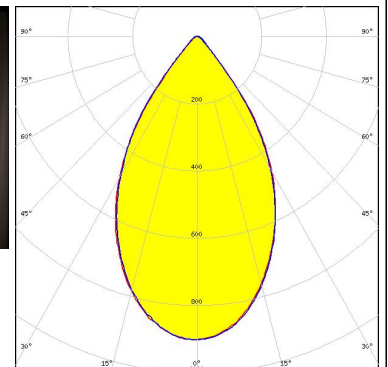
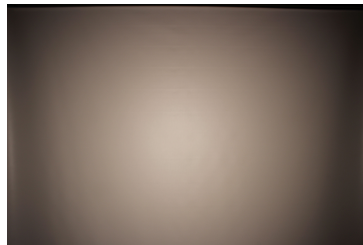
NICHIA

LED NF2W757G-MT (Tunable White)
FWHM / FWTM 61.0° / 84.0°
Efficiency 82 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
C16872_DAISSY-7X1-SHD



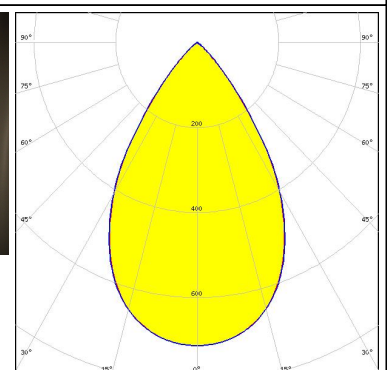
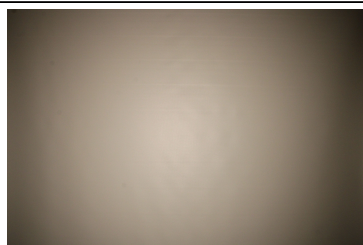
NICHIA

LED NF2W757G-MT (Tunable White)
FWHM / FWTM 62.0° / 86.0°
Efficiency 93 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
C16876_DAISSY-7X1-SHD-WHT



OSRAM

LED PL-LIN-2000 280x24mm
FWHM / FWTM 64.0° / 89.0°
Efficiency 76 %
Peak intensity 0.7 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17051_DAISSY-7X1-SHD-MATT

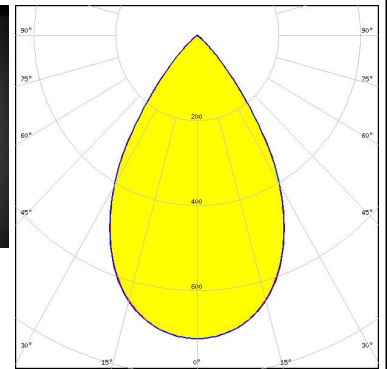


OPTICAL RESULTS (MEASURED):

OSRAM

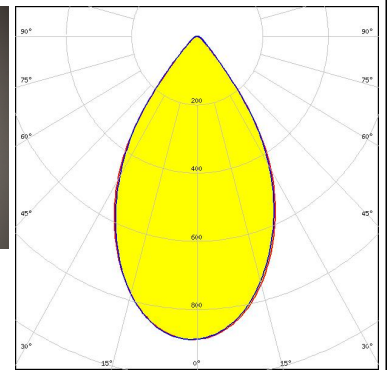
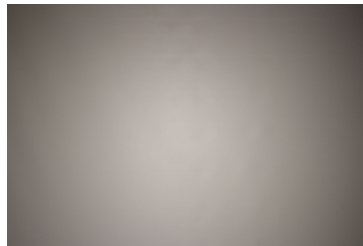
Opto Semiconductors

LED OSCONIQ E 2835
FWHM / FWTM 64.0° / 89.0°
Efficiency 76 %
Peak intensity 0.7 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17051_DAISY-7X1-SHD-MATT



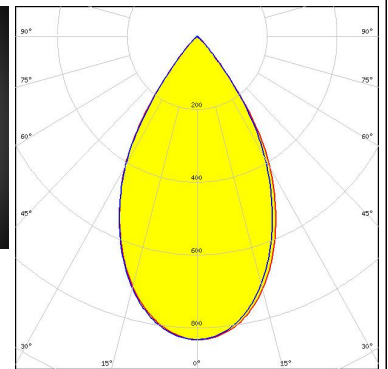
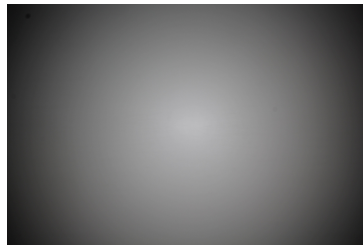
SAMSUNG

LED LM28xB Series
FWHM / FWTM 62.0° / 88.0°
Efficiency 92 %
Peak intensity 0.9 cd/lm
LEDs/each optic 2
Light colour White
Required components:
C16876_DAISY-7X1-SHD-WHT



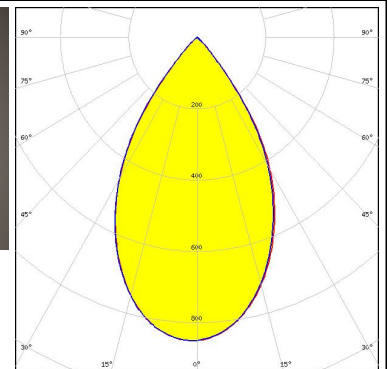
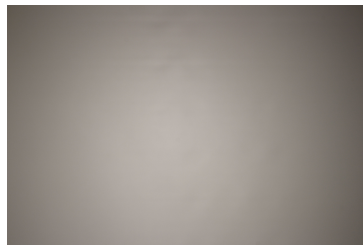
SAMSUNG

LED LM28xB Series
FWHM / FWTM 60.0° / 84.0°
Efficiency 77 %
Peak intensity 0.8 cd/lm
LEDs/each optic 2
Light colour White
Required components:
C17051_DAISY-7X1-SHD-MATT



SAMSUNG

LED LM28xB Series
FWHM / FWTM 61.0° / 85.0°
Efficiency 82 %
Peak intensity 0.9 cd/lm
LEDs/each optic 2
Light colour White
Required components:
C16872_DAISY-7X1-SHD



OPTICAL RESULTS (MEASURED):

<p>SEITEC Elektronik GmbH</p> <p>LED LED-St-L28W2c4-xxx-C015-55 (DAISY-7x1)</p> <p>FWHM / FWTM 63.0° / 91.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components: C17533_DAISSY-7X1-SHD-MET-MATT</p>		
<p>SEITEC Elektronik GmbH</p> <p>LED LED-St-L28W2c4-xxx-C015-55 (DAISY-7x1)</p> <p>FWHM / FWTM 64.0° / 89.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components: C17051_DAISSY-7X1-SHD-MATT</p>		
<p>SEITEC Elektronik GmbH</p> <p>LED LED-St-L28W2c4-xxx-C015-55 (DAISY-7x1)</p> <p>FWHM / FWTM 65.0° / 93.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components: C17225_DAISSY-7X1-SHD-WHT-MATT</p>		
<p>SEITEC Elektronik GmbH</p> <p>LED LED-St-L28W2c4-xxx-C015-55 (DAISY-7x1)</p> <p>FWHM / FWTM 64.0° / 89.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 0.7 cd/lm</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components: C16872_DAISSY-7X1-SHD</p>		

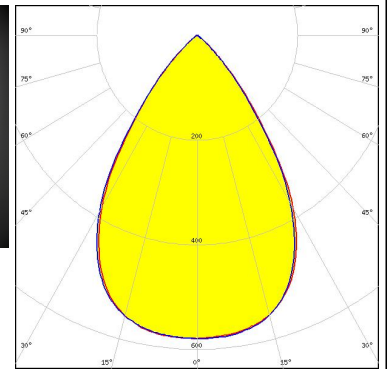
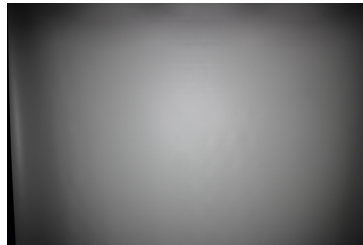
OPTICAL RESULTS (MEASURED):

<p>SEITEC Elektronik GmbH</p> <p>LED LED-St-L28W2c4-xxx-C015-55 (DAISY-7x1)</p> <p>FWHM / FWTM 64.0° / 90.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components: C18167_DAISSY-7X1-SHD-MET</p>		
<p>SEITEC Elektronik GmbH</p> <p>LED LED-St-L28W2c4-xxx-C015-55 (DAISY-7x1)</p> <p>FWHM / FWTM 65.0° / 93.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components: C16876_DAISSY-7X1-SHD-WHT</p>		
<p>TEPCOMP group</p> <p>LED PassivePAQ-L-1F35-SSA3-2.7K-840-3-DC</p> <p>FWHM / FWTM 70.0° / 100.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components: C17225_DAISSY-7X1-SHD-WHT-MATT</p>		
<p>TEPCOMP group</p> <p>LED PassivePAQ-L-1F35-SSA3-2.7K-840-3-DC</p> <p>FWHM / FWTM 68.0° / 94.0°</p> <p>Efficiency 71 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components: C17051_DAISSY-7X1-SHD-MATT</p>		

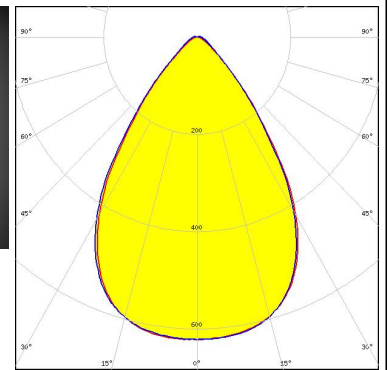
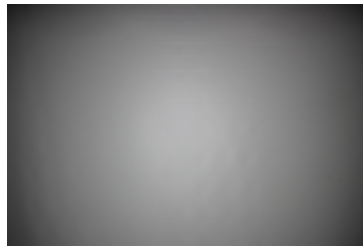
OPTICAL RESULTS (MEASURED):



LED PassivePAQ-L-1F35-SSA3-2.7K-840-3-DC
FWHM / FWTM 68.0° / 93.0°
Efficiency 71 %
Peak intensity 0.6 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C16872_DAISY-7X1-SHD

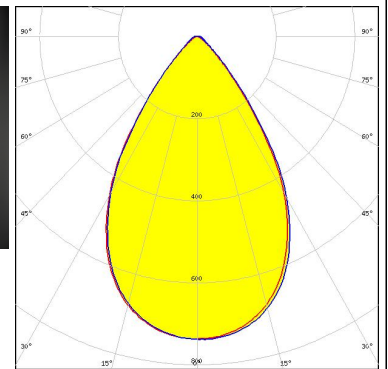
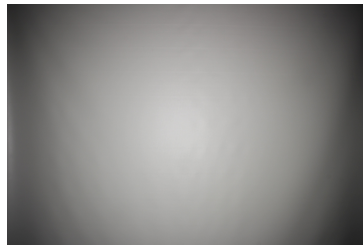


LED PassivePAQ-L-1F35-SSA3-2.7K-840-3-DC
FWHM / FWTM 70.0° / 100.0°
Efficiency 87 %
Peak intensity 0.6 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C16876_DAISY-7X1-SHD-WHT



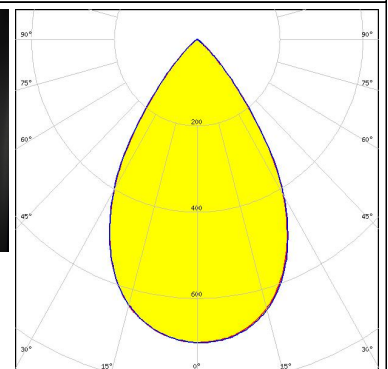
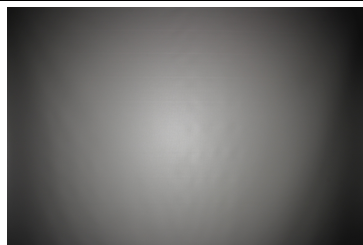
TRIDONIC

LED LLE 24x280mm 750lm 8x0 LVD ADV1
FWHM / FWTM 66.0° / 95.0°
Efficiency 89 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C17225_DAISY-7X1-SHD-WHT-MATT



TRIDONIC

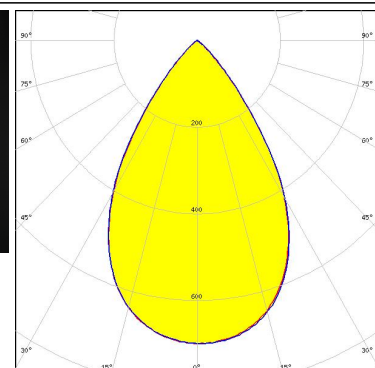
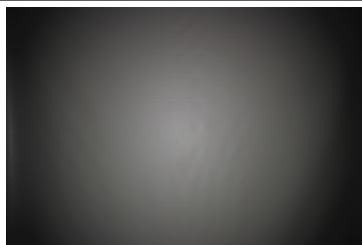
LED LLE 24x280mm 750lm 8x0 LVD ADV1
FWHM / FWTM 65.0° / 90.0°
Efficiency 76 %
Peak intensity 0.7 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17051_DAISY-7X1-SHD-MATT



OPTICAL RESULTS (MEASURED):

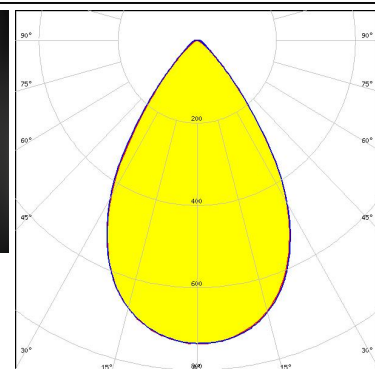
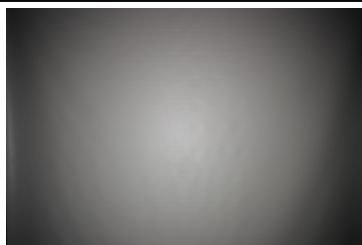
TRIDONIC

LED LLE 24x280mm 750lm 8x0 LVD ADV1
 FWHM / FWTM 65.0° / 90.0°
 Efficiency 76 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:
 C16872_DAISSY-7X1-SHD



TRIDONIC

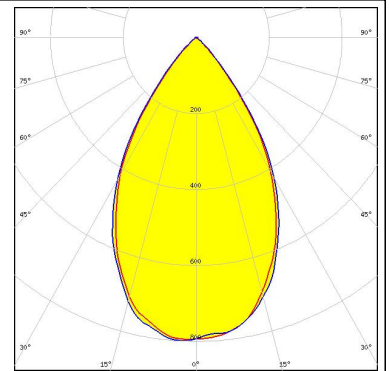
LED LLE 24x280mm 750lm 8x0 LVD ADV1
 FWHM / FWTM 66.0° / 95.0°
 Efficiency 89 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:
 C16876_DAISSY-7X1-SHD-WHT



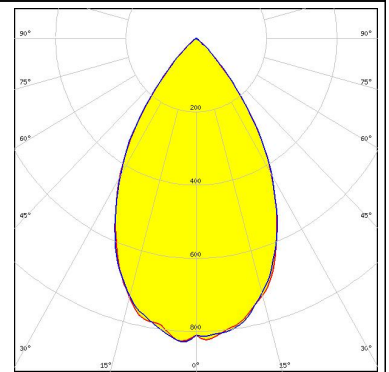
OPTICAL RESULTS (SIMULATED):



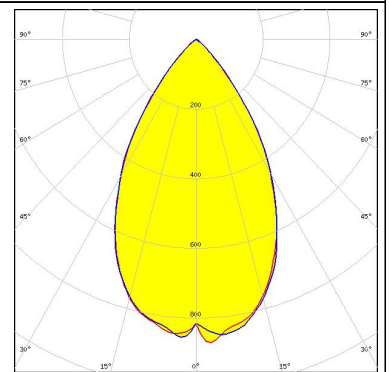
LED J Series 2835
FWHM / FWTM 62.0° / 90.0°
Efficiency 78 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C16872_DAISY-7X1-SHD



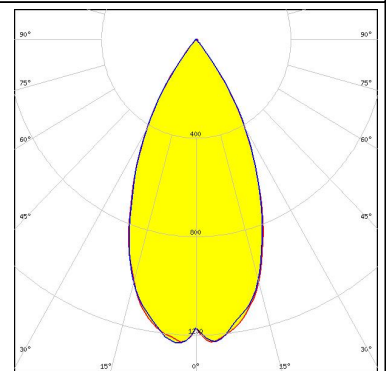
LED Duris E 2835
FWHM / FWTM 62.0° / 90.0°
Efficiency 83 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17051_DAISY-7X1-SHD-MATT



LED Duris E 2835
FWHM / FWTM 61.0° / 91.0°
Efficiency 88 %
Peak intensity 0.9 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17225_DAISY-7X1-SHD-WHT-MATT



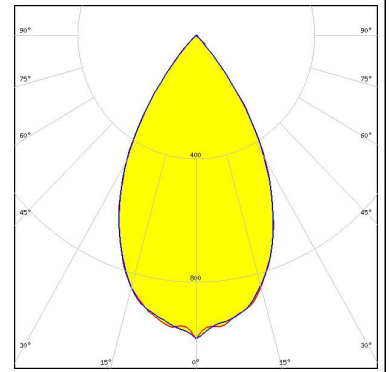
LED OSLO PURE 1010
FWHM / FWTM 50.0° / 76.0°
Efficiency 86 %
Peak intensity 1.3 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17225_DAISY-7X1-SHD-WHT-MATT



OPTICAL RESULTS (SIMULATED):

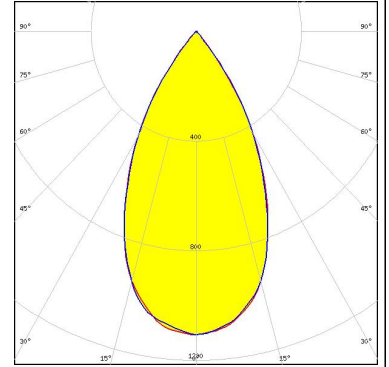
SAMSUNG

LED LM101B
FWHM / FWTM 58.0° / 82.0°
Efficiency 88 %
Peak intensity 1 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C18167_DAISSY-7X1-SHD-MET



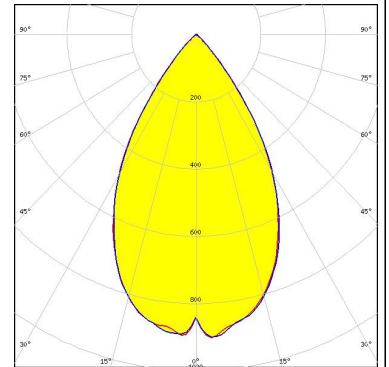
SAMSUNG

LED LM101B
FWHM / FWTM 54.0° / 78.0°
Efficiency 86 %
Peak intensity 1.1 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17225_DAISSY-7X1-SHD-WHT-MATT



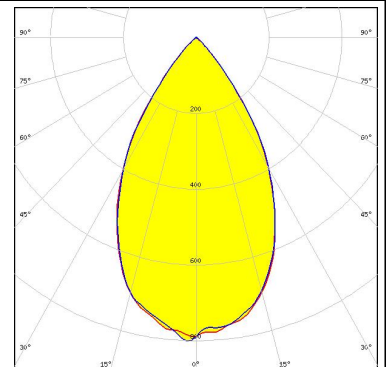
SAMSUNG

LED LM301Z Plus
FWHM / FWTM 62.0° / 86.0°
Efficiency 88 %
Peak intensity 0.9 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C18167_DAISSY-7X1-SHD-MET



SAMSUNG

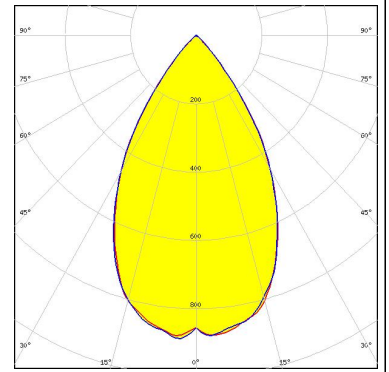
LED LM301Z Plus
FWHM / FWTM 60.0° / 86.0°
Efficiency 75 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17051_DAISSY-7X1-SHD-MATT



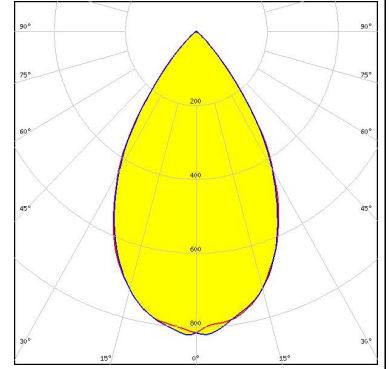
OPTICAL RESULTS (SIMULATED):

SAMSUNG

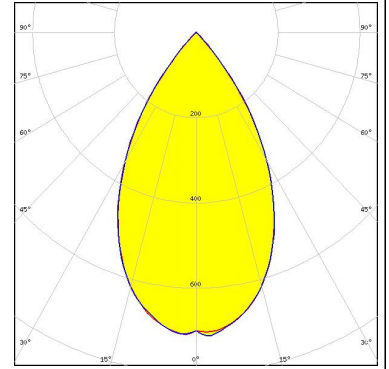
LED LM301Z Plus
FWHM / FWTM 60.0° / 86.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17225_DAISY-7X1-SHD-WHT-MATT



SEOUL SEMICONDUCTOR
LED SEOUL DC 3030C
FWHM / FWTM 62.0° / 88.0°
Efficiency 80 %
Peak intensity 0.8 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C16872_DAISY-7X1-SHD

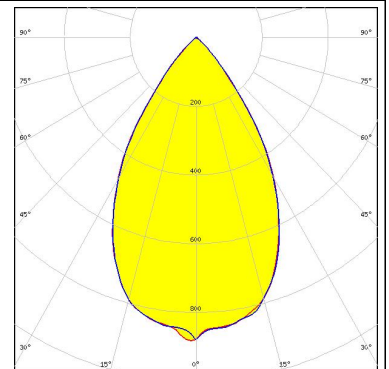


SEOUL SEMICONDUCTOR
LED SEOUL DC 3528
FWHM / FWTM 59.0° / 84.0°
Efficiency 76 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16872_DAISY-7X1-SHD



TRIDONIC

LED LLE 24x280mm 750lm 8x0 LVD ADV1
FWHM / FWTM 62.0° / 88.0°
Efficiency 88 %
Peak intensity 0.9 cd/lm
LEDs/each optic 4
Light colour White
Required components:
C17533_DAISY-7X1-SHD-MET-MATT



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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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.

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