

ANGELA-S-B

~10° spot beam compatible with BJB connectors

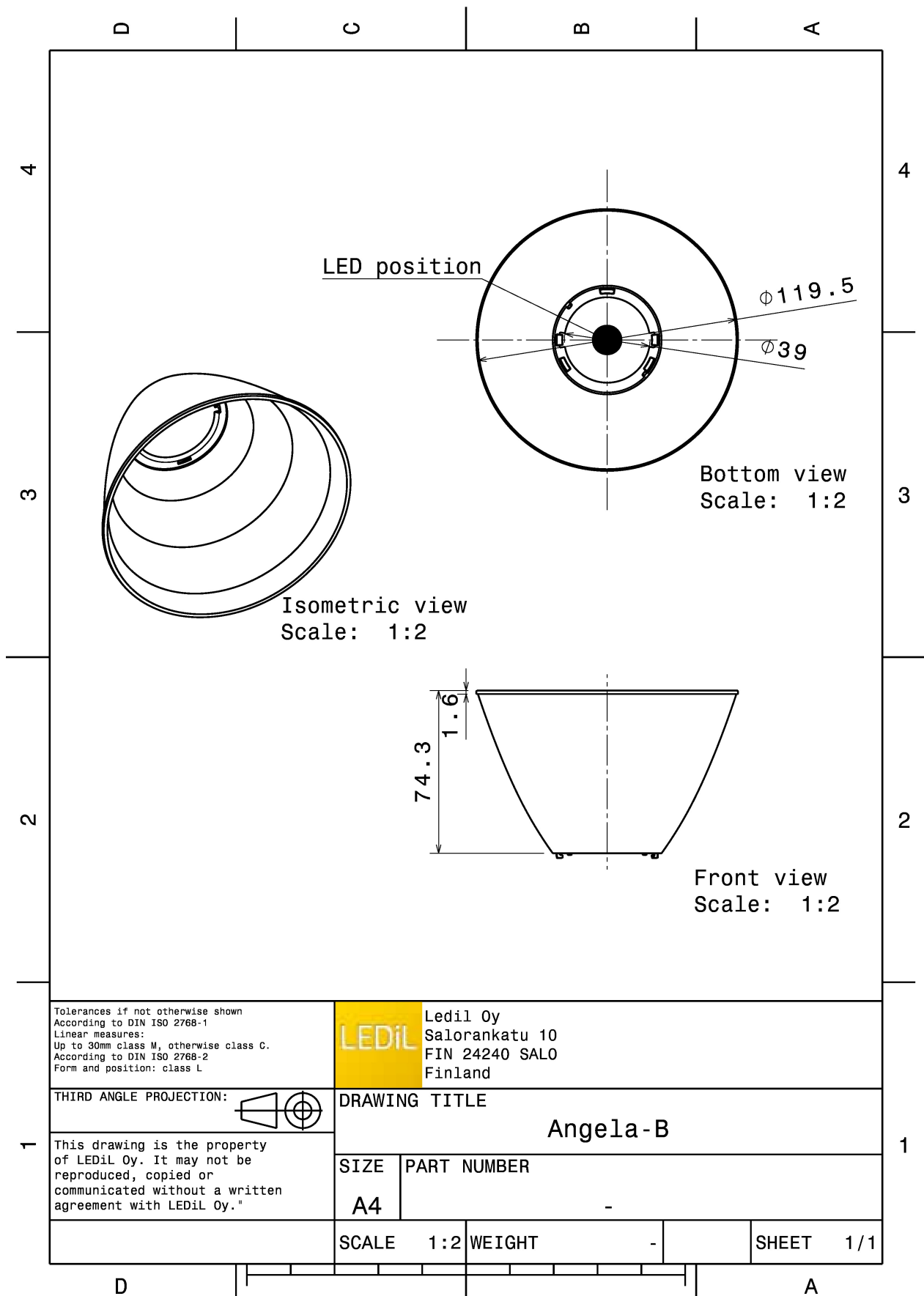
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 119.5 mm
Height	74.5 mm
Fastening	socket
Colour	metal
Box size	398 x 298 x 265 mm
Box weight	8.6 kg
Quantity in Box	180 pcs
ROHS compliant	yes ⓘ

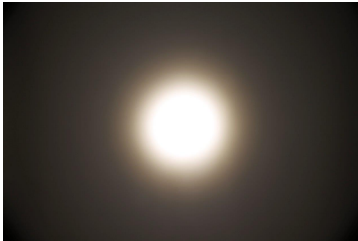
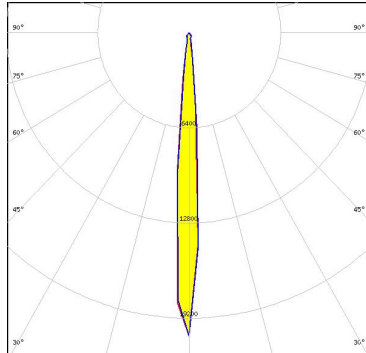
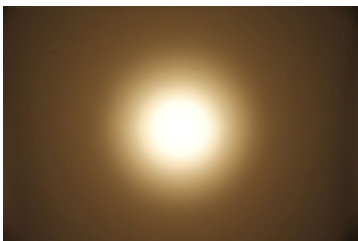
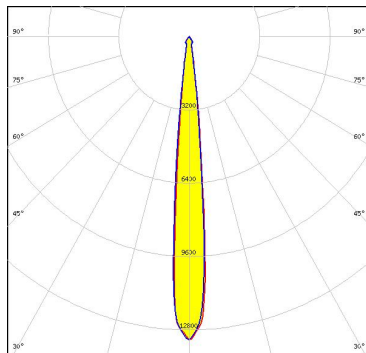
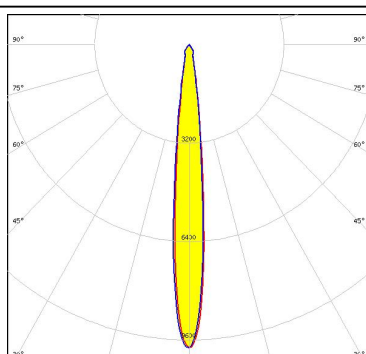
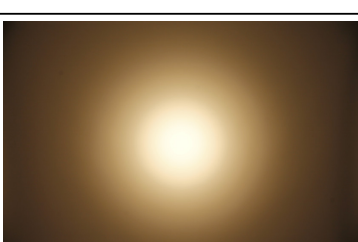
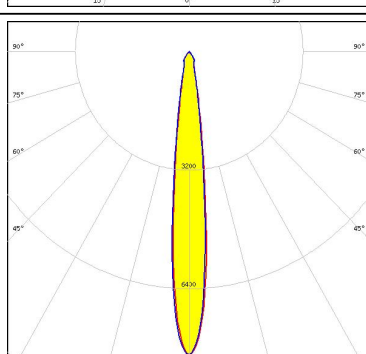


MATERIAL SPECIFICATIONS:

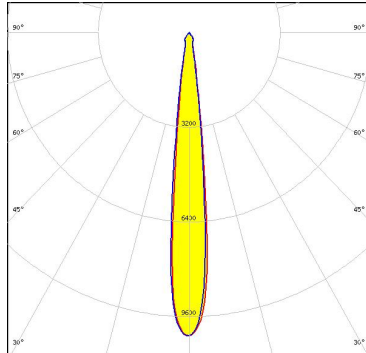
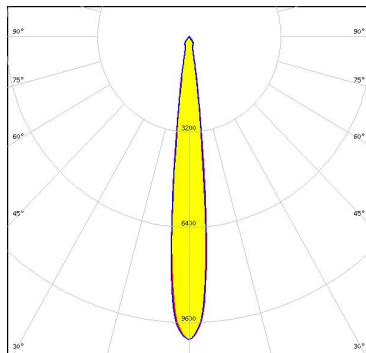
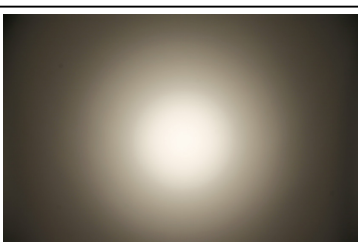
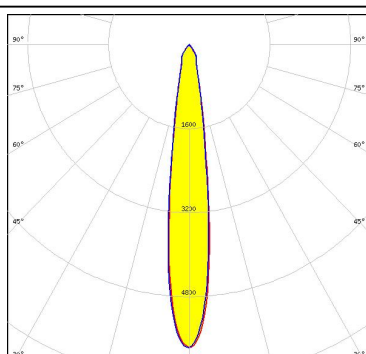
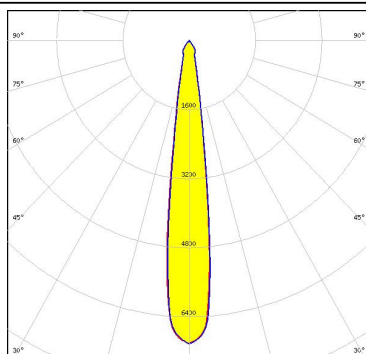
Component	Type	Material	Colour	Coating
ANGELA-S-B	Reflector	PC	metal	HMDS



PHOTOMETRIC DATA (MEASURED):

bridgelux. LED BXRA ES Rectangle FWHM 8.0° Efficiency 94 % Peak intensity 20.740 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2040		
bridgelux. LED V15 Gen6 FWHM 11.0° Efficiency 89 % Peak intensity 13.000 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2224		
bridgelux. LED V15 Gen6 FWHM 11.0° Efficiency 86 % Peak intensity 9.900 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGLE-RZ-LENS BJB: 47.319.2274		
bridgelux. LED V18 Gen6 FWHM 13.0° Efficiency 86 % Peak intensity 8.200 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGLE-RZ-LENS BJB: 47.319.2274		

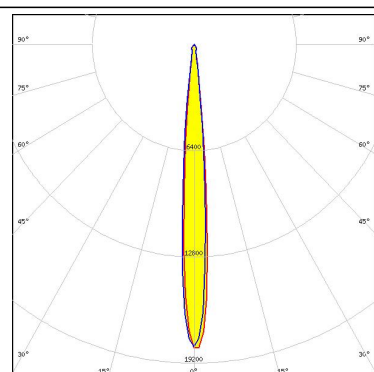
PHOTOMETRIC DATA (MEASURED):

bridgelux. LED V18 Gen6 FWHM 12.0° Efficiency 89 % Peak intensity 10.000 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2274		
bridgelux. LED V18 Gen7 FWHM 12.0° Efficiency 91 % Peak intensity 10.200 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2350		
bridgelux. LED V22 Gen6 FWHM 15.0° Efficiency 84 % Peak intensity 5.800 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGE-RZ-LENS A.A.G. STUCCHI: 8102/G2		
bridgelux. LED V22 Gen6 FWHM 15.0° Efficiency 88 % Peak intensity 7.000 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8102/G2		

PHOTOMETRIC DATA (MEASURED):

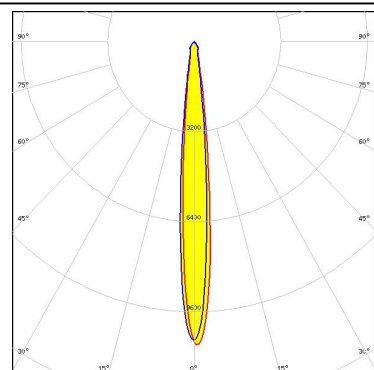
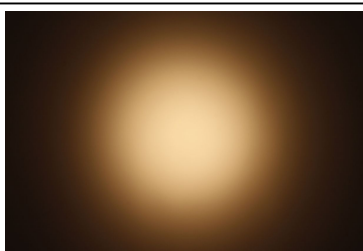
CITIZEN

LED CLL03x/CLU03x
FWHM 9.0°
Efficiency 94 %
Peak intensity 18.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



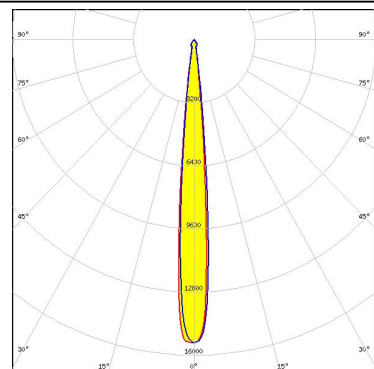
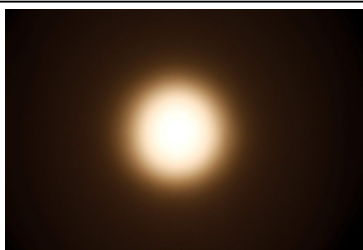
CITIZEN

LED CLL03x/CLU03x
FWHM 10.0°
Efficiency 86 %
Peak intensity 10.780 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8101/G2



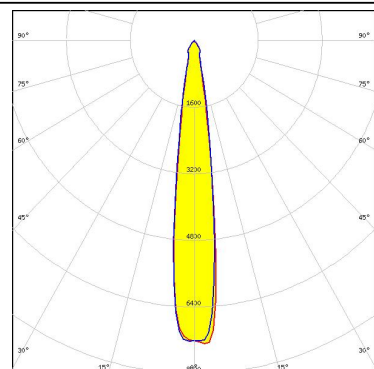
CITIZEN

LED CLL03x/CLU03x
FWHM 10.0°
Efficiency 93 %
Peak intensity 15.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8101/G2



CITIZEN

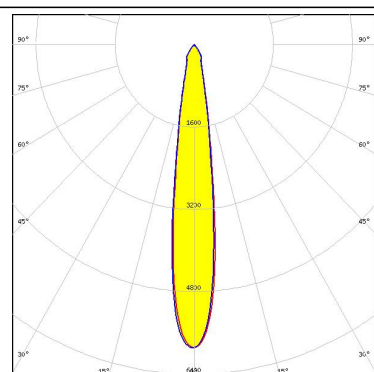
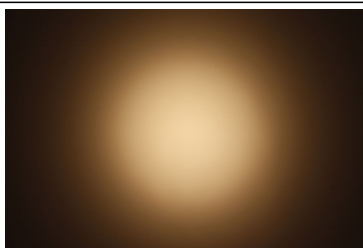
LED CLL04x/CLU04x
FWHM 15.0°
Efficiency 92 %
Peak intensity 7.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



PHOTOMETRIC DATA (MEASURED):

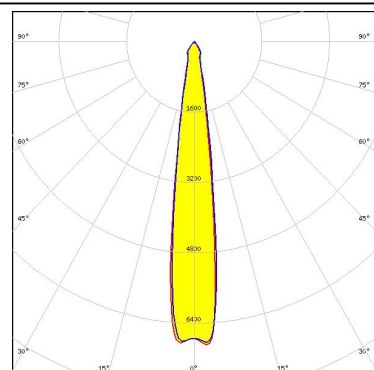
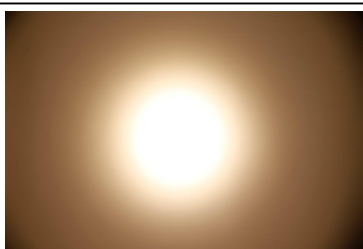
CITIZEN

LED CLL04x/CLU04x
FWHM 15.0°
Efficiency 86 %
Peak intensity 5.890 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8102/G2



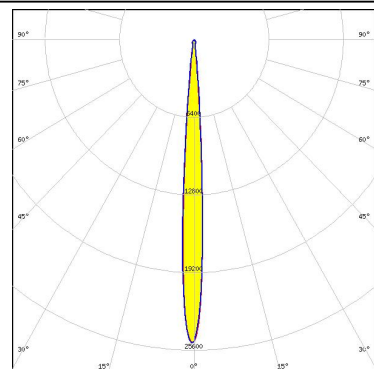
CITIZEN

LED CLL04x/CLU04x
FWHM 15.0°
Efficiency 92 %
Peak intensity 6.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102/G2



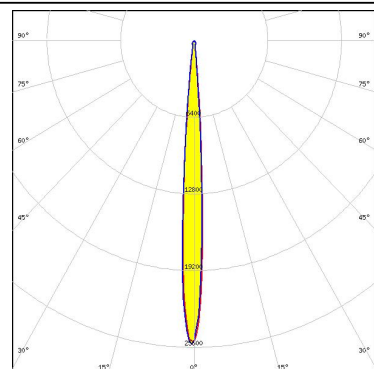
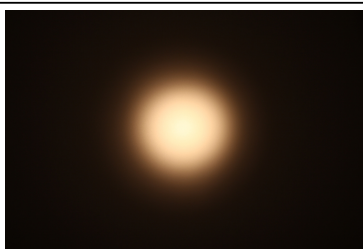
CITIZEN

LED CLU720/721
FWHM 7.0°
Efficiency 94 %
Peak intensity 25.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8101/G2



CITIZEN

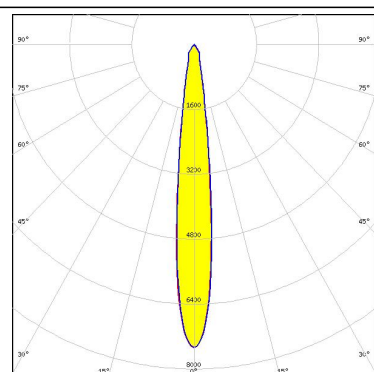
LED CLU720/721
FWHM 7.0°
Efficiency 94 %
Peak intensity 25.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



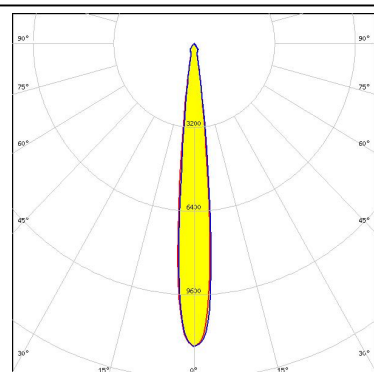
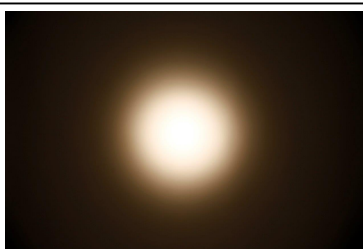
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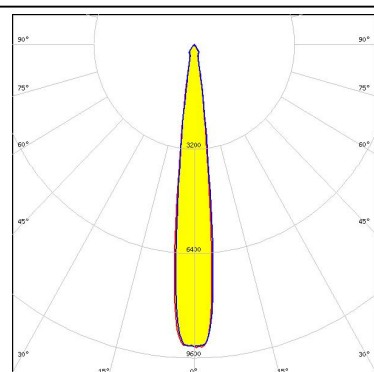
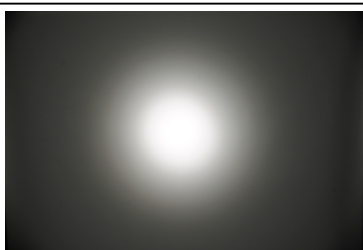
LED CXA/B 25xx
FWHM 13.0°
Efficiency 86 %
Peak intensity 7.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2141



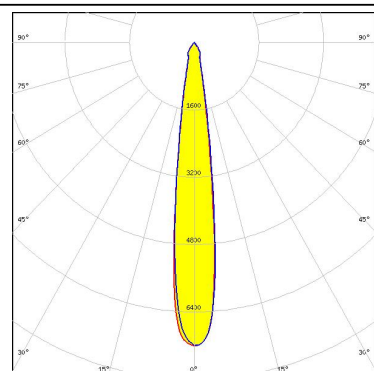
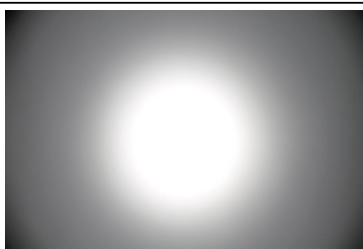
LED CXA/B 25xx
FWHM 11.0°
Efficiency 92 %
Peak intensity 11.590 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8401/G2



LED CXA/B 25xx
FWHM 13.0°
Efficiency 89 %
Peak intensity 9.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2141



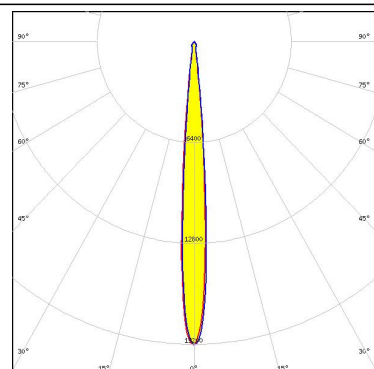
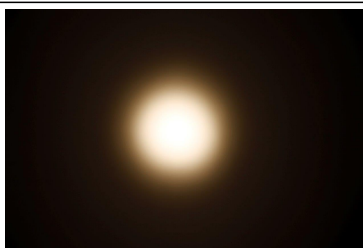
LED CXA/B 30xx
FWHM 15.0°
Efficiency 91 %
Peak intensity 7.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8404/G2



PHOTOMETRIC DATA (MEASURED):

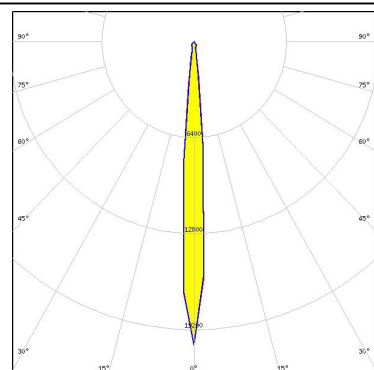
LG Innotek

LED COB 10W/13W/17W/24W
FWHM 9.0°
Efficiency 93 %
Peak intensity 19.240 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8600/G2



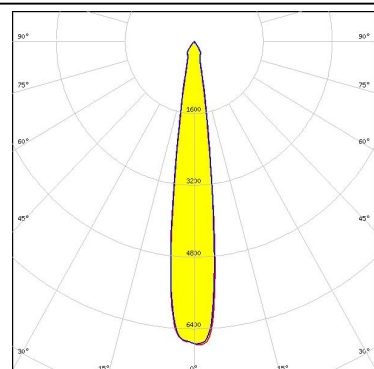
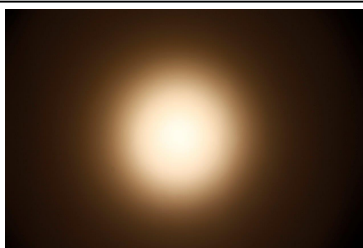
LG Innotek

LED COB 10W/13W/17W/24W
FWHM 8.0°
Efficiency 94 %
Peak intensity 16.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2080



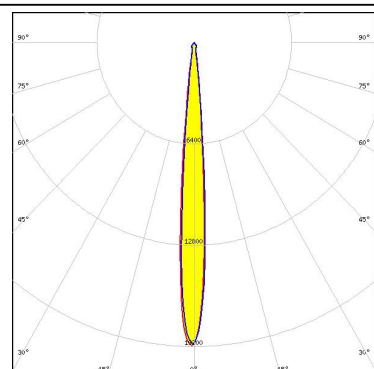
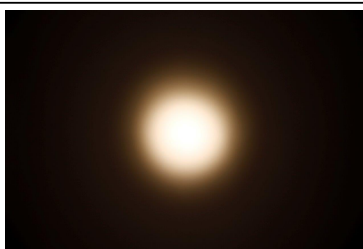
LG Innotek

LED COB 40W/60W
FWHM 15.0°
Efficiency 91 %
Peak intensity 6.760 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102/G2



LUMILEDS

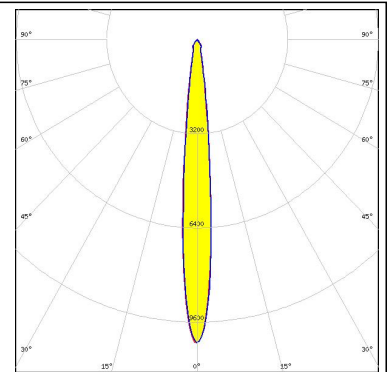
LED LUXEON CoB 1204/1205
FWHM 9.0°
Efficiency 93 %
Peak intensity 19.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8301/G2



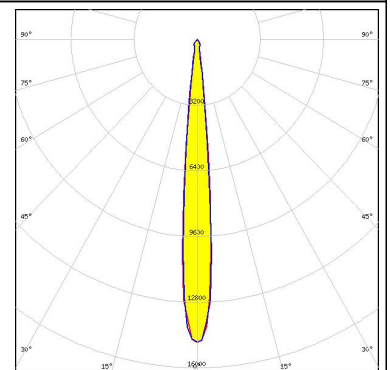
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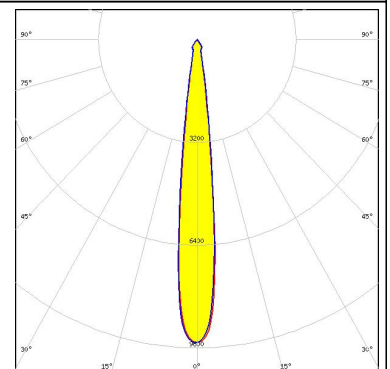
LED LUXEON CoB 1208
FWHM 11.0°
Efficiency 86 %
Peak intensity 10.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8301/G2



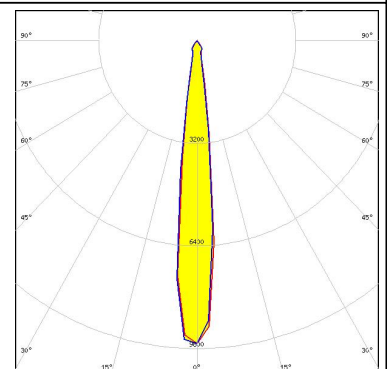
LED LUXEON CoB 1208
FWHM 10.0°
Efficiency 94 %
Peak intensity 14.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8301/G2



LED LUXEON CoB 1211
FWHM 13.0°
Efficiency 90 %
Peak intensity 9.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



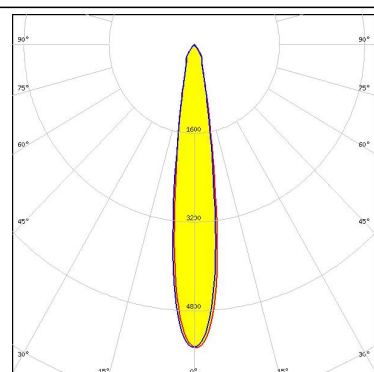
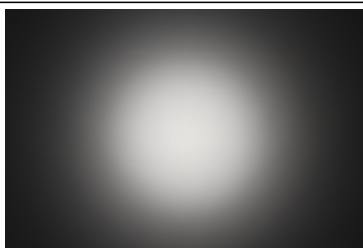
LED LUXEON CoB 1211
FWHM 13.0°
Efficiency 91 %
Peak intensity 9.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102/G2



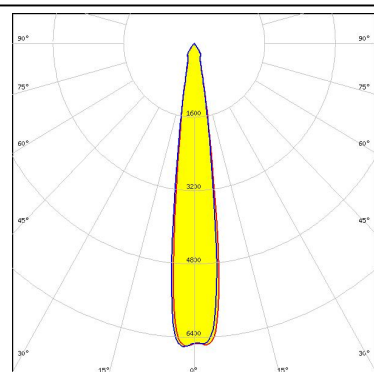
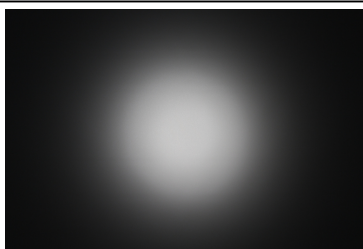
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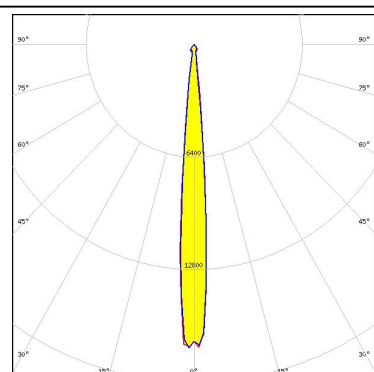
LED LUXEON CoB 1216/1812
FWHM 16.0°
Efficiency 85 %
Peak intensity 5.470 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2030



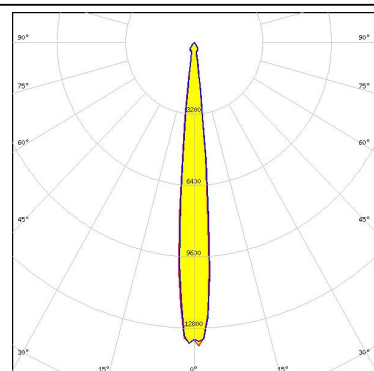
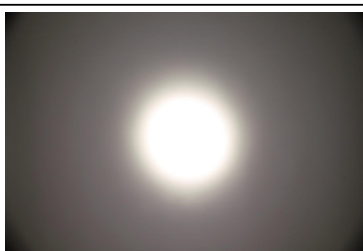
LED LUXEON CoB 1216/1812
FWHM 15.0°
Efficiency 89 %
Peak intensity 6.620 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



LED LUXEON K12
FWHM 9.0°
Efficiency 94 %
Peak intensity 17.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2070



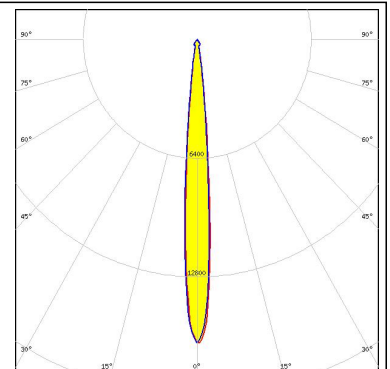
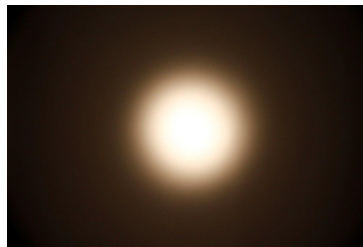
LED LUXEON K16
FWHM 11.0°
Efficiency 94 %
Peak intensity 13.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2070



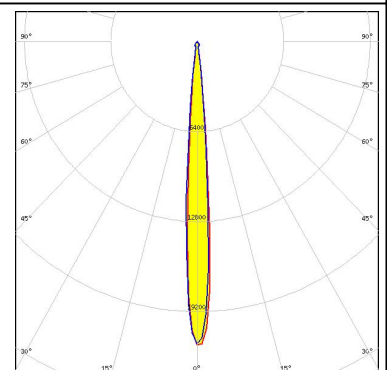
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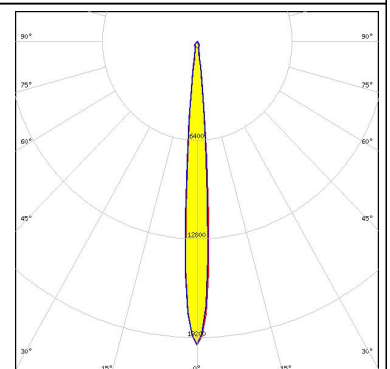
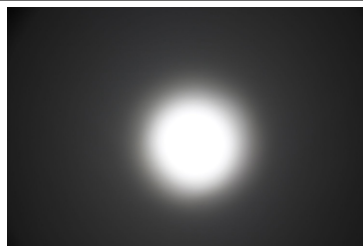
LED CxM-14 (19x19)
 FWHM 9.0°
 Efficiency 93 %
 Peak intensity 16.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2021



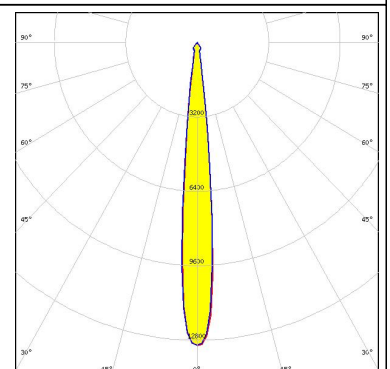
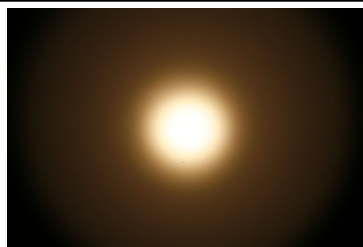
LED Soleriq S13
 FWHM 8.0°
 Efficiency 94 %
 Peak intensity 21.570 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8502/G2



LED Soleriq S13 19x19
 FWHM 8.5°
 Efficiency 89 %
 Peak intensity 19.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2021



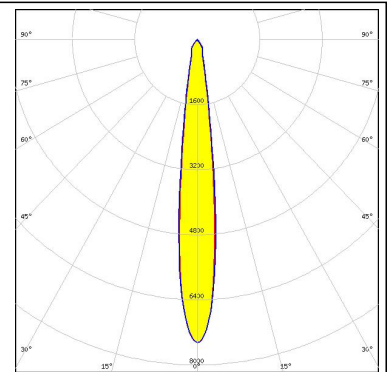
LED Soleriq S19
 FWHM 11.0°
 Efficiency 93 %
 Peak intensity 13.050 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2170



PHOTOMETRIC DATA (MEASURED):

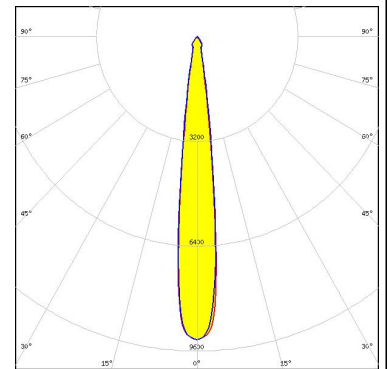
PHILIPS

LED Fortimo SLM L19 CoB
FWHM 13.0°
Efficiency 86 %
Peak intensity 7.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2030



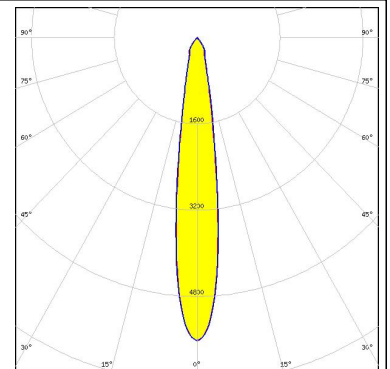
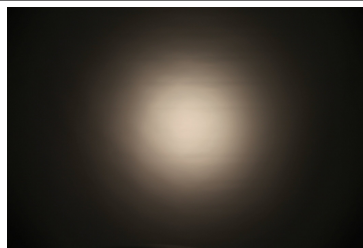
PHILIPS

LED Fortimo SLM L19 CoB
FWHM 13.0°
Efficiency 91 %
Peak intensity 9.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



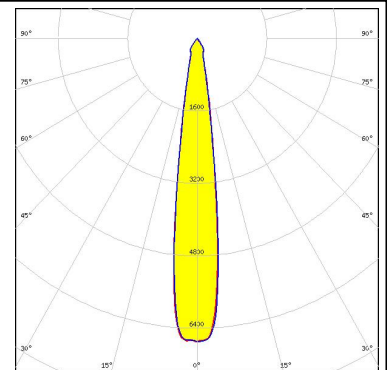
PHILIPS

LED Fortimo SLM L23 CoB
FWHM 16.0°
Efficiency 86 %
Peak intensity 5.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2030



PHILIPS

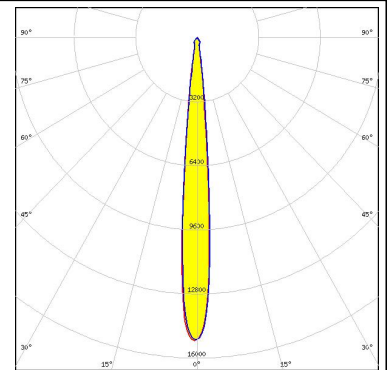
LED Fortimo SLM L23 CoB
FWHM 15.0°
Efficiency 91 %
Peak intensity 6.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



PHOTOMETRIC DATA (MEASURED):

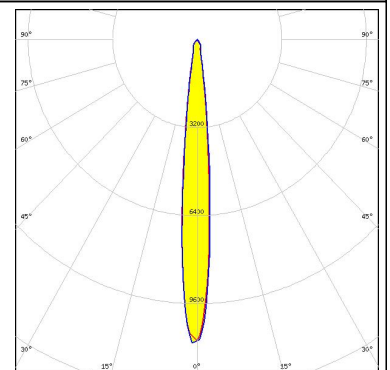
SAMSUNG

LED COB D Series LES 14.5 mm
FWHM 10.0°
Efficiency 91 %
Peak intensity 15.150 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



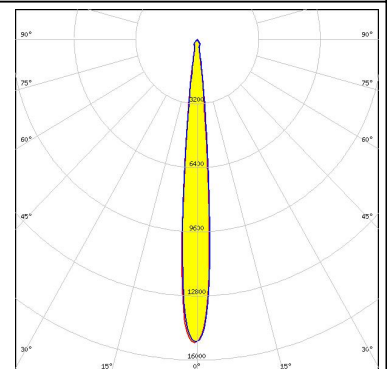
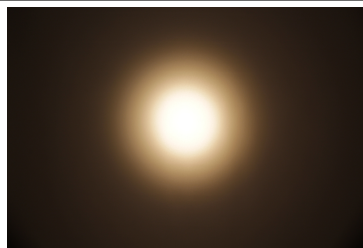
SAMSUNG

LED COB D Series LES 14.5 mm
FWHM 11.0°
Efficiency 87 %
Peak intensity 11.030 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2021



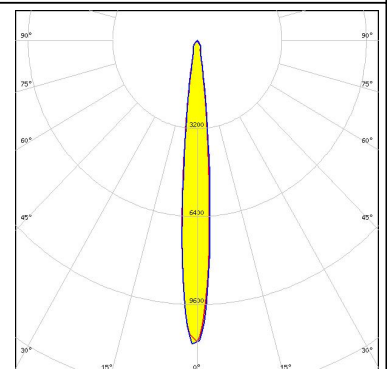
SAMSUNG

LED COB D Series LES 14.5 mm
FWHM 10.0°
Efficiency 91 %
Peak intensity 15.150 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8101/G2



SAMSUNG

LED COB D Series LES 14.5 mm
FWHM 11.0°
Efficiency 87 %
Peak intensity 11.030 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8101/G2



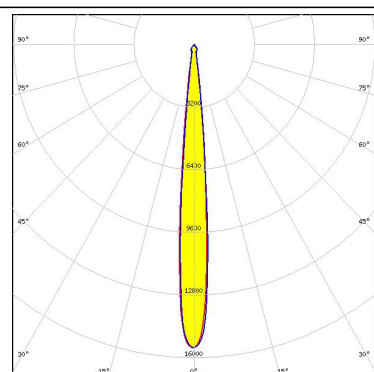
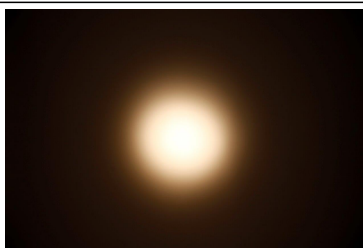
PHOTOMETRIC DATA (MEASURED):

SEOL SEOUL SEMICONDUCTOR LED ZC12/18 FWHM 9.0° Efficiency 93 % Peak intensity 18.400 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8101/G2		
SEOL SEOUL SEMICONDUCTOR LED ZC25/40/60 FWHM 14.0° Efficiency 93 % Peak intensity 7.700 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030		
SEOL SEOUL SEMICONDUCTOR LED ZC25/40/60 FWHM 14.0° Efficiency 91 % Peak intensity 7.700 cd/lm LEDs/each optic 1 Light colour White Required components: A.A.G. STUCCHI: 8102/G2		
SEOL SEOUL SEMICONDUCTOR LED ZC25/40/60 FWHM 16.0° Efficiency 87 % Peak intensity 6.210 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGE-RZ-LENS BJB: 47.319.2030		

PHOTOMETRIC DATA (MEASURED):

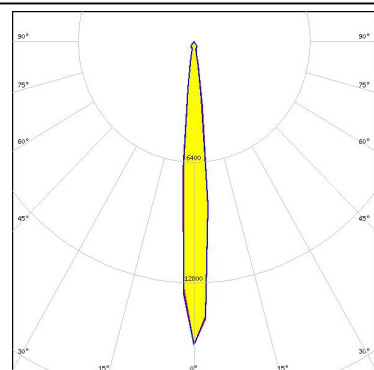
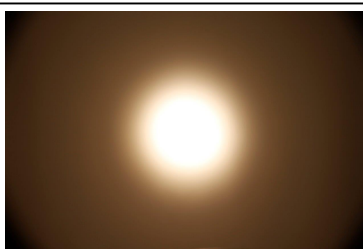
SHARP

LED Mega Zenigata (GW6DME)
 FWHM 10.0°
 Efficiency 94 %
 Peak intensity 15.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 A.A.G. STUCCHI: 8301/G2



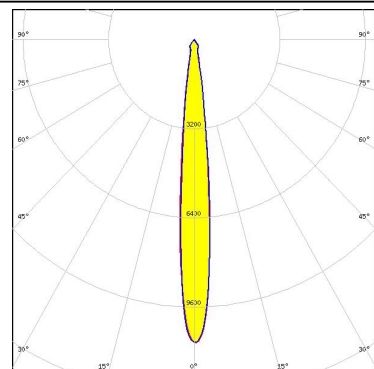
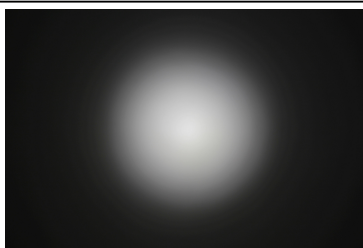
SHARP

LED Mega Zenigata (GW6DME)
 FWHM 10.0°
 Efficiency 94 %
 Peak intensity 16.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 BJB: 47.319.2011



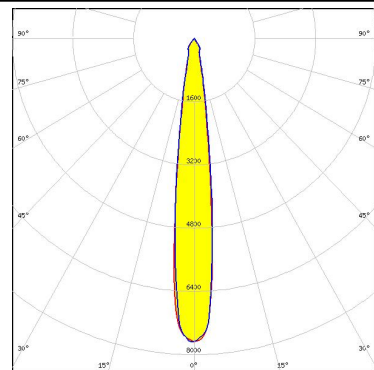
TRIDONIC

LED SLE G7 LES17 H
 FWHM 11.0°
 Efficiency 90 %
 Peak intensity 10.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



TRIDONIC

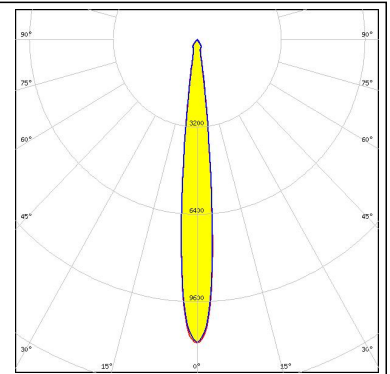
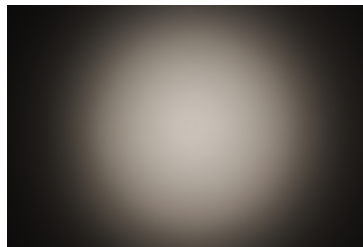
LED SLE G7 LES21 H
 FWHM 14.0°
 Efficiency 90 %
 Peak intensity 7.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

XICATO

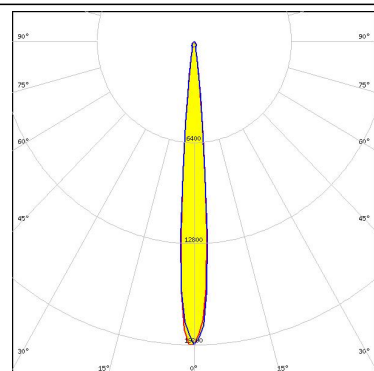
LED XTM - 19mm LES
FWHM 12.0°
Efficiency 91 %
Peak intensity 11.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C15743_XTM-ADAPTER-50-B



PHOTOMETRIC DATA (SIMULATED):

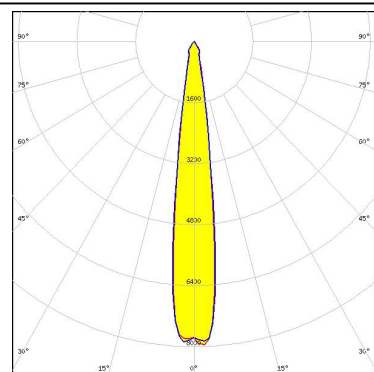
CITIZEN

LED CLL03x/CLU03x
FWHM 9.3°
Efficiency 94 %
Peak intensity 19.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



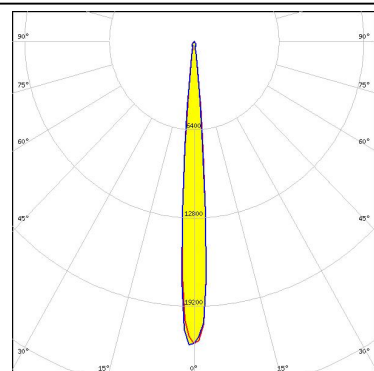
CITIZEN

LED CLL04x/CLU04x
FWHM 14.0°
Efficiency 93 %
Peak intensity 8.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



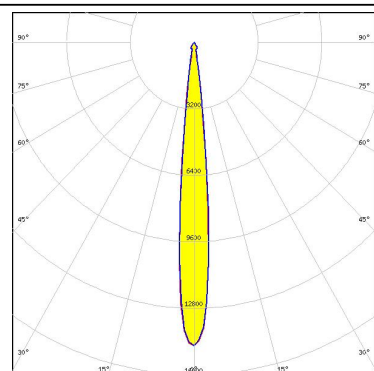
CITIZEN

LED CLU730/731
FWHM 8.5°
Efficiency 92 %
Peak intensity 22.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



OSRAM

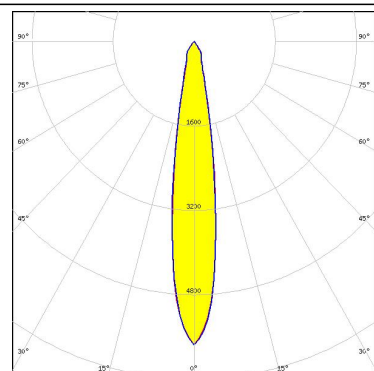
Opto Semiconductors
LED Soleriq S15
FWHM 10.0°
Efficiency 90 %
Peak intensity 14.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2021



PHOTOMETRIC DATA (SIMULATED):

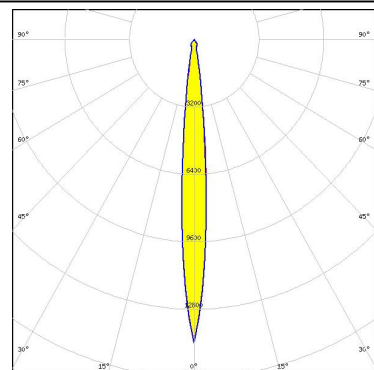
SAMSUNG

LED COB D Series LES 22 mm
FWHM 17.0°
Efficiency 87 %
Peak intensity 5.750 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2030



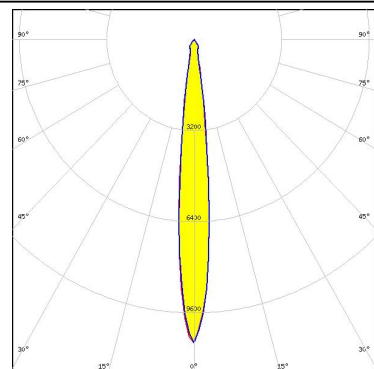
TRIDONIC

LED SLE G6 LES15 H D50
FWHM 9.7°
Efficiency 89 %
Peak intensity 14.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



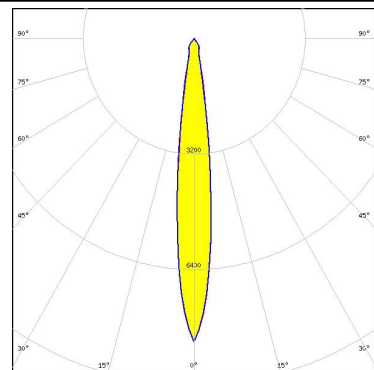
TRIDONIC

LED SLE G6 LES17 H
FWHM 12.0°
Efficiency 88 %
Peak intensity 10.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:



TRIDONIC

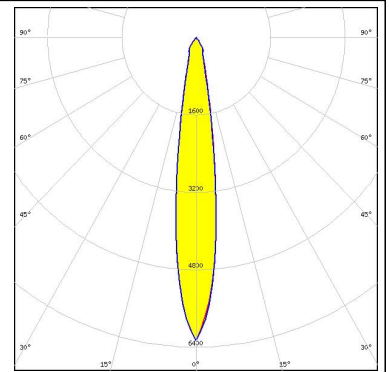
LED SLE G6 LES19 H
FWHM 13.0°
Efficiency 89 %
Peak intensity 8.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

TRIDONIC

LED SLE G6 LES23 H
FWHM 16.0°
Efficiency 88 %
Peak intensity 6.270 cd/Im
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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

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.

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