

BARBARA-G2-S

~12° spot beam compatible with LEDiL HEKLA

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 70.0 mm
Height	41.9 mm
Fastening	socket
ROHS compliant	yes 

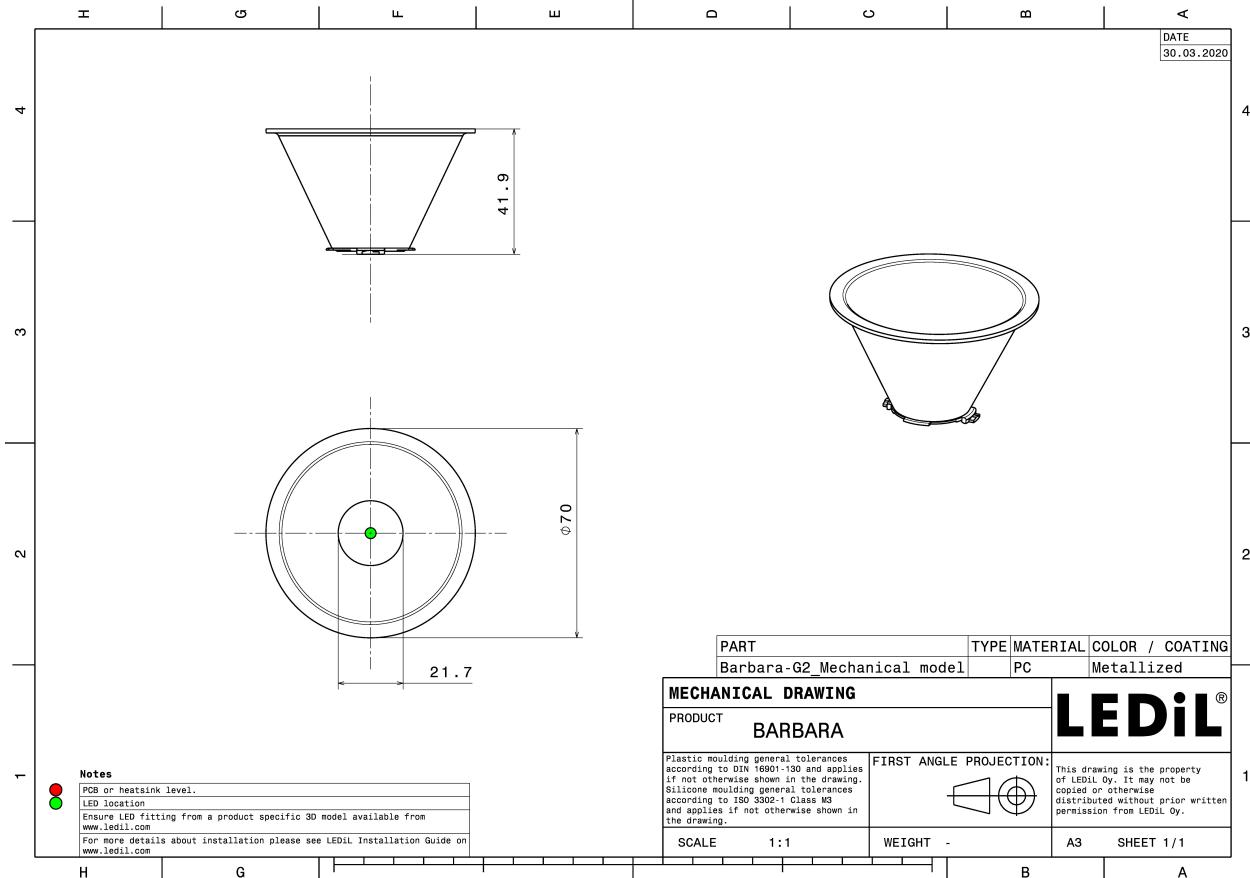


MATERIAL SPECIFICATIONS:

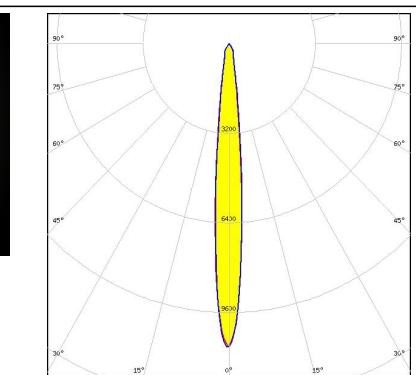
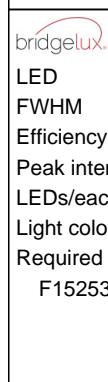
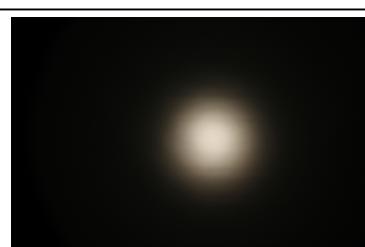
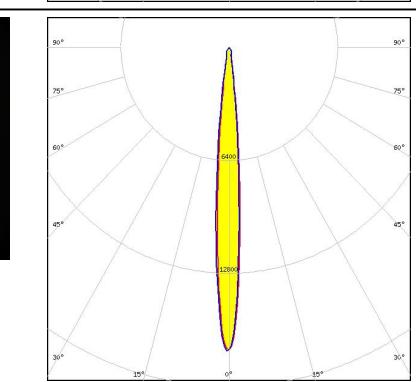
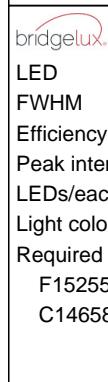
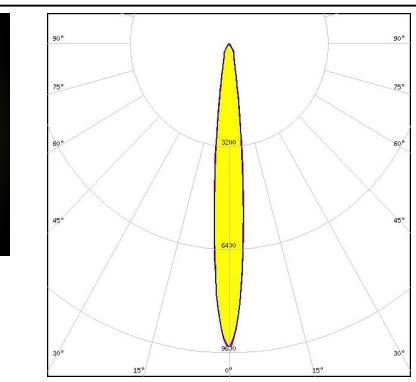
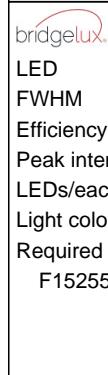
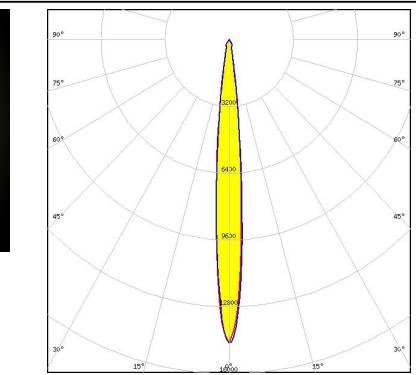
Component	Type	Material	Colour	Finish	Coating
BARBARA-G2-S	Reflector	PC	metal		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F16363_BARBARA-G2-S » Box size: 480 x 280 x 300 mm	252	90	18	4.6



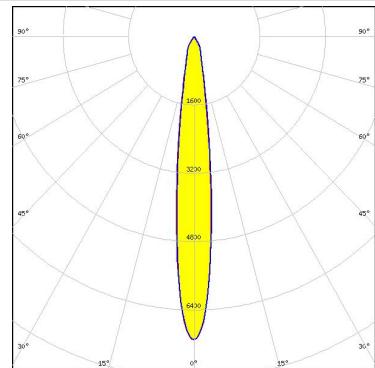
PHOTOMETRIC DATA (MEASURED):

	<p>LED V4 HD FWHM 10.0° Efficiency 86 % Peak intensity 10.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A C14658_BARBARA-RZ-LENS</p>		
	<p>LED V4 HD FWHM 9.0° Efficiency 91 % Peak intensity 17.3 cd/lm LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A</p>		
	<p>LED V6 HD FWHM 11.0° Efficiency 86 % Peak intensity 9.5 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS</p>		
	<p>LED V6 HD FWHM 10.0° Efficiency 91 % Peak intensity 14.6 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		

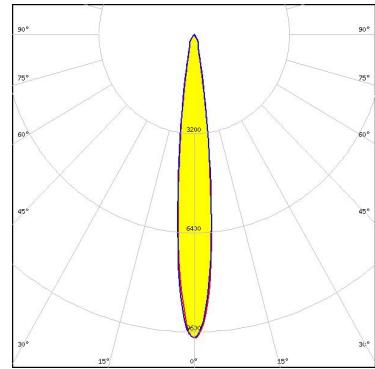
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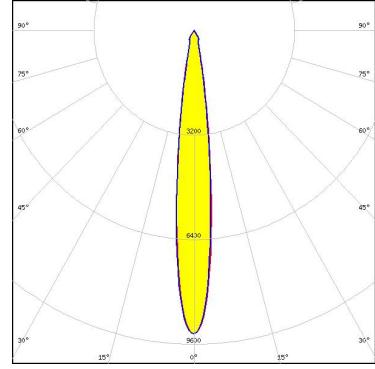
LED	V9 HD
FWHM	14.0°
Efficiency	85 %
Peak intensity	7.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15859_HEKLA-SOCKET-I
	C14658_BARBARA-RZ-LENS



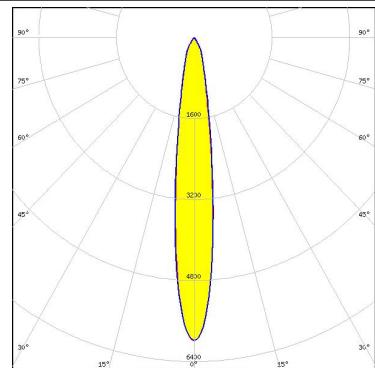
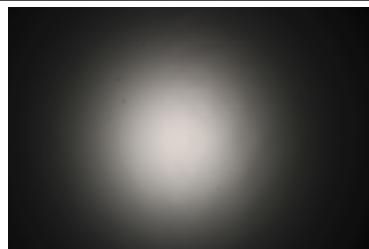
LED	V9 HD
FWHM	13.0°
Efficiency	91 %
Peak intensity	9.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15859_HEKLA-SOCKET-I



LED	V9 HD
FWHM	13.0°
Efficiency	89 %
Peak intensity	9.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15256_HEKLA-SOCKET-D



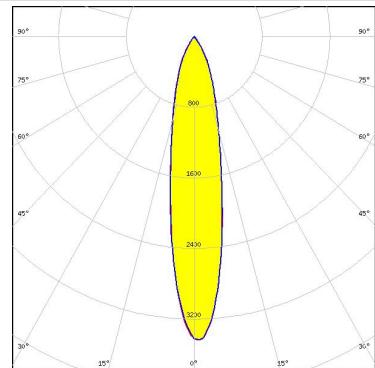
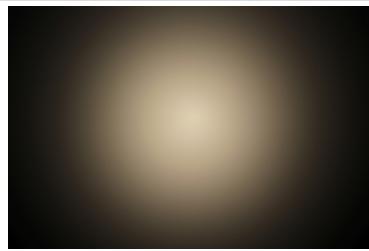
LED	Vesta TW 9mm (12W) CSP
FWHM	15.0°
Efficiency	83 %
Peak intensity	6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C16142_HEKLA-SOCKET-K
	C14658_BARBARA-RZ-LENS



PHOTOMETRIC DATA (MEASURED):

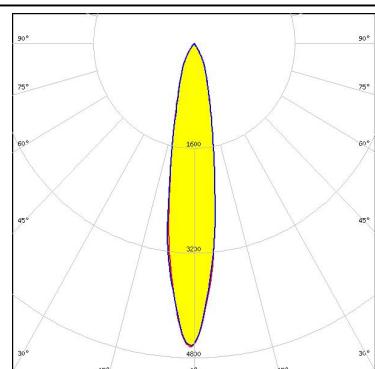
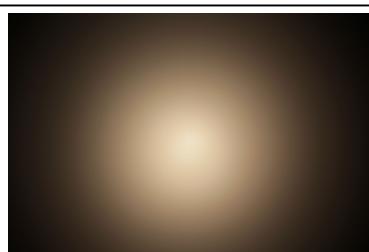
CITIZEN

LED CLC030 Series (Dim-To-Warm)
 FWHM 21.0°
 Efficiency 81 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 436 Typ L8



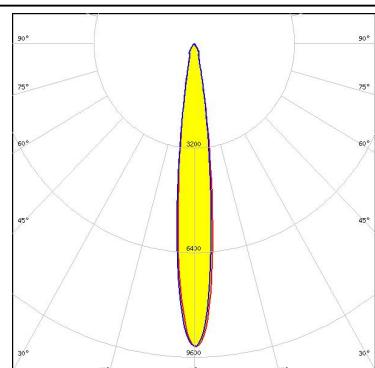
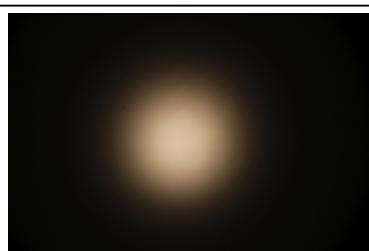
CITIZEN

LED CLC030 Series (Dim-To-Warm)
 FWHM 18.0°
 Efficiency 86 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 436 Typ L8



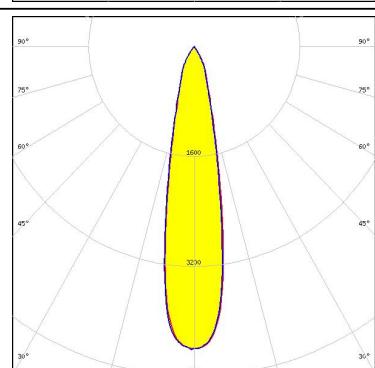
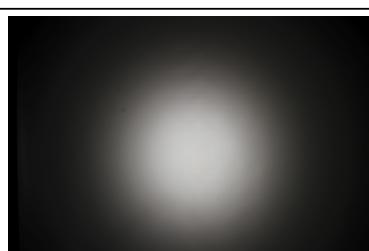
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 13.0°
 Efficiency 91 %
 Peak intensity 9.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



CITIZEN

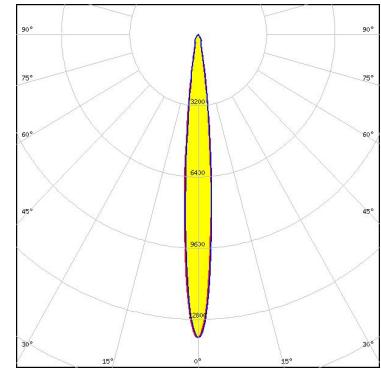
LED CLL03x/CLU03x
 FWHM 21.0°
 Efficiency 91 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



PHOTOMETRIC DATA (MEASURED):

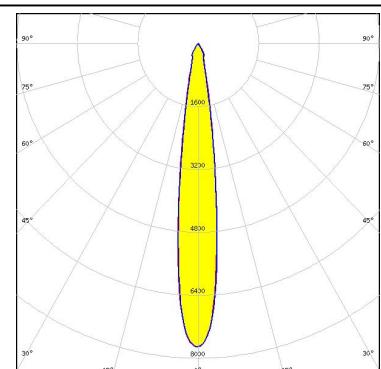
CITIZEN

LED CLU700/701/702
FWHM 10.0°
Efficiency 90 %
Peak intensity 13.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



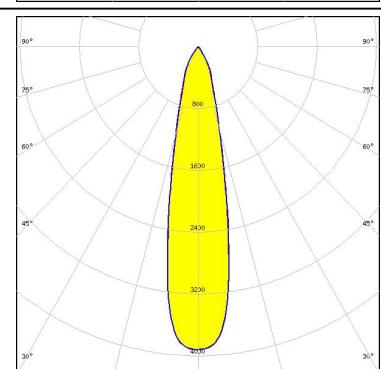
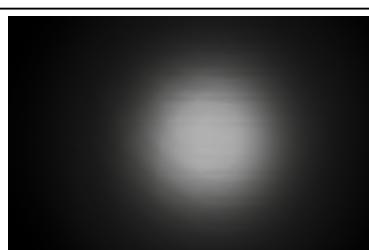
CREE

LED CMT14xx
FWHM 15.0°
Efficiency 90 %
Peak intensity 7.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



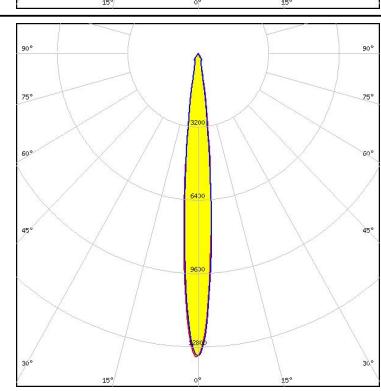
CREE

LED CMT19xx
FWHM 22.0°
Efficiency 90 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



CREE

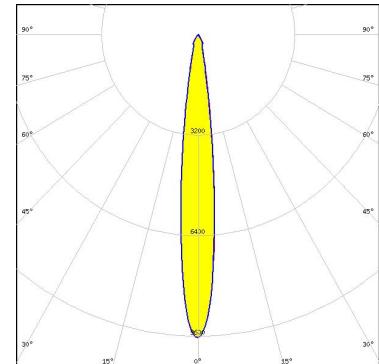
LED CXA/B 13xx
FWHM 11.0°
Efficiency 91 %
Peak intensity 13.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15956_HEKLA-SOCKET-J



PHOTOMETRIC DATA (MEASURED):

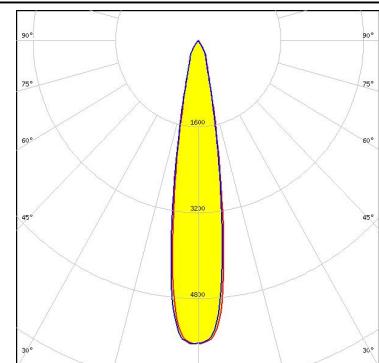
CREE 

LED CXA/B 15xx
FWHM 13.0°
Efficiency 92 %
Peak intensity 9.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



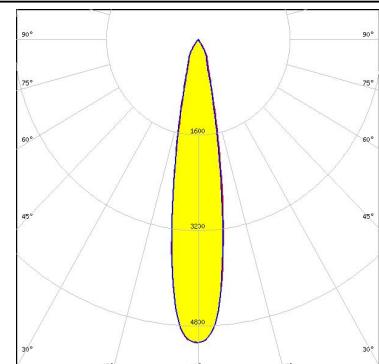
CREE 

LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 19.0°
Efficiency 92 %
Peak intensity 5.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



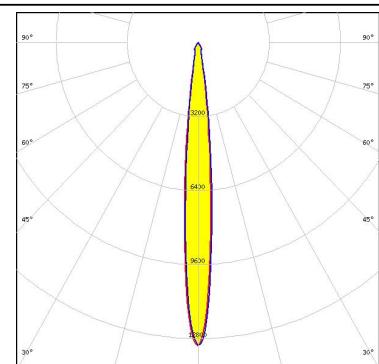
CREE 

LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 19.0°
Efficiency 89 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15254_HEKLA-SOCKET-B

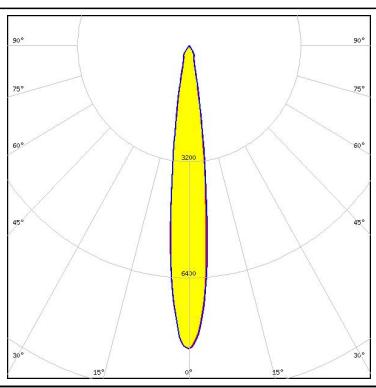
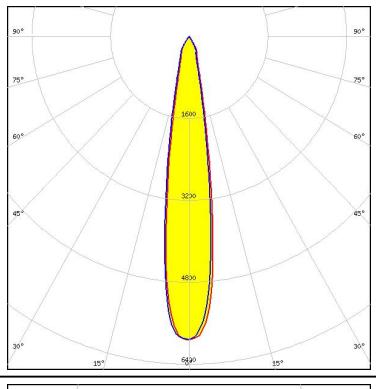
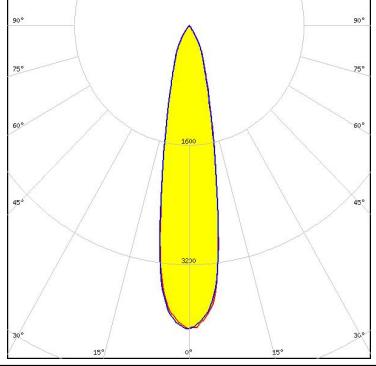
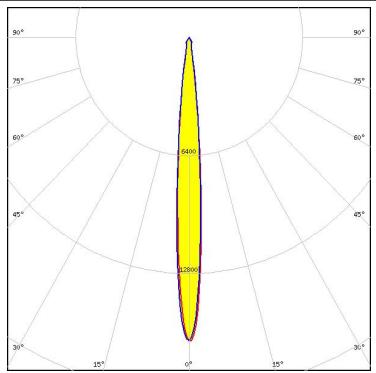


 **LUMILEDS**

LED LUXEON CoB 1202HD
FWHM 10.0°
Efficiency 90 %
Peak intensity 13.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



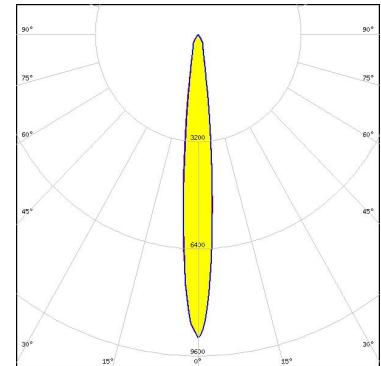
PHOTOMETRIC DATA (MEASURED):

 LUMILEDS LED LUXEON CoB 1204HD FWHM 14.0° Efficiency 90 % Peak intensity 8.4 cd/lm LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H		
 LUMILEDS LED LUXEON CoB 1205HD FWHM 17.0° Efficiency 89 % Peak intensity 6 cd/lm LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H		
 LUMILEDS LED LUXEON CoB 1208 FWHM 22.0° Efficiency 88 % Peak intensity 4.1 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 632a Hekla XL		
 LUMILEDS LED LUXEON CX Plus CoB - HD S01H4 FWHM 9.0° Efficiency 89 % Peak intensity 16.4 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla		

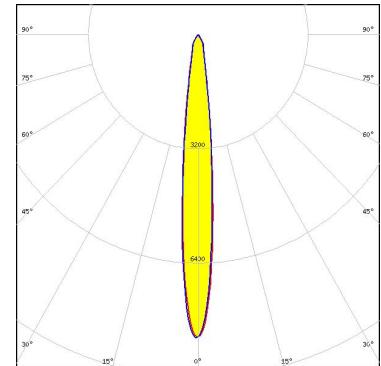
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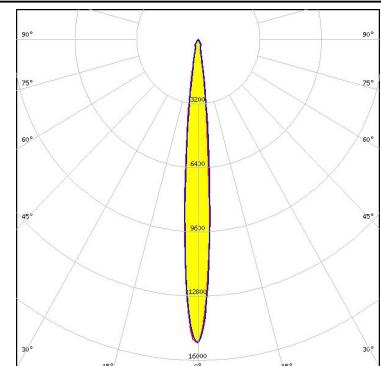
LED	LUXEON CX Plus CoB - HD S01H4
FWHM	11.0°
Efficiency	83 %
Peak intensity	9.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C14658_BARBARA-RZ-LENS
	Bender Wirth: 634c Hekla



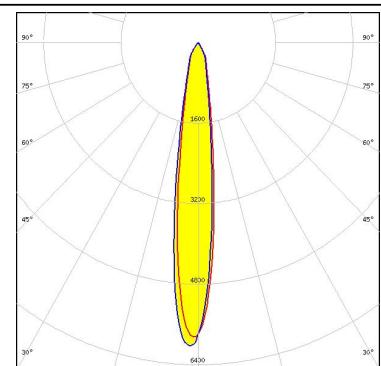
LED	LUXEON CX Plus CoB - HD S01H6 / HD S02H6
FWHM	12.0°
Efficiency	83 %
Peak intensity	8.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C14658_BARBARA-RZ-LENS
	Bender Wirth: 634c Hekla



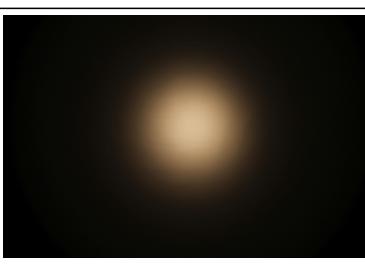
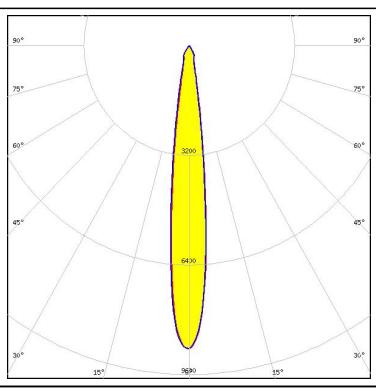
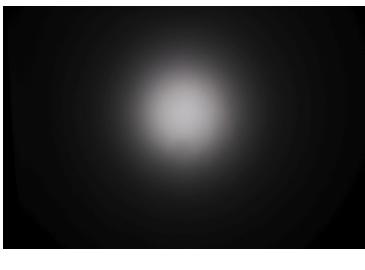
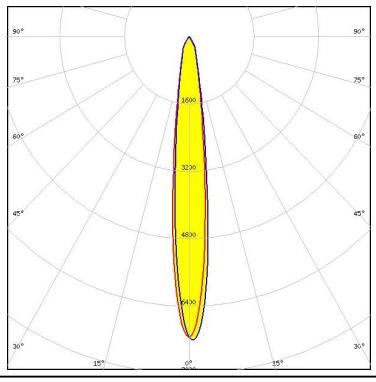
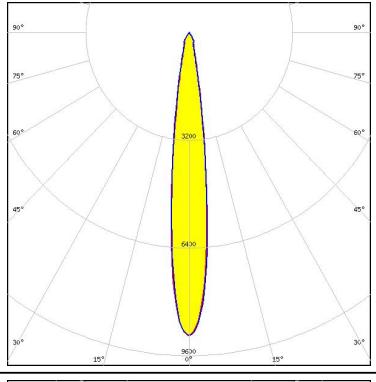
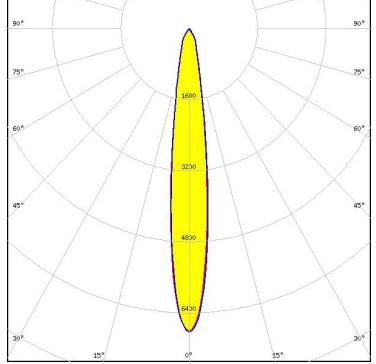
LED	LUXEON CX Plus CoB - HD S01H6 / HD S02H6
FWHM	10.0°
Efficiency	89 %
Peak intensity	15.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	Bender Wirth: 634c Hekla



LED	LUXEON CX Plus CoB - HD S04H9
FWHM	15.0°
Efficiency	83 %
Peak intensity	6.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C14658_BARBARA-RZ-LENS
	Bender Wirth: 634c Hekla



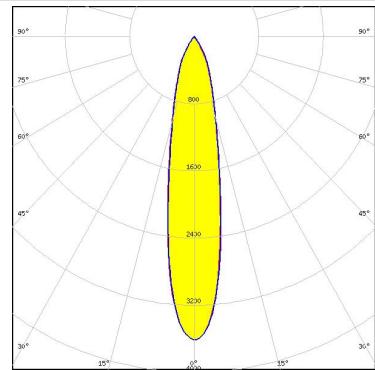
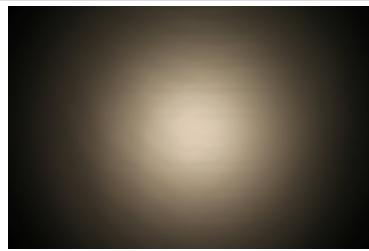
PHOTOMETRIC DATA (MEASURED):

 LUMILEDS LED LUXEON CX Plus CoB - HD S04H9 FWHM 13.0° Efficiency 89 % Peak intensity 8.9 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla		
 LUMILEDS LED LUXEON Fusion 21-up (20x24) FWHM 13.0° Efficiency 82 % Peak intensity 7.2 cd/lm LEDs/each optic 21 Light colour White Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 442 Typ L8		
 PHILIPS LED Fortimo SLM L09 CoB FWHM 14.0° Efficiency 91 % Peak intensity 9 cd/lm LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H		
 PHILIPS LED Fortimo SLM L09 CoB FWHM 14.0° Efficiency 87 % Peak intensity 6.8 cd/lm LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H C14658_BARBARA-RZ-LENS		

PHOTOMETRIC DATA (MEASURED):

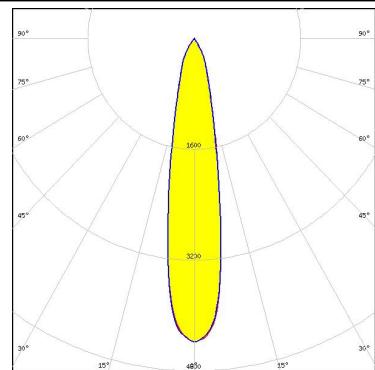
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM 20.0°
 Efficiency 82 %
 Peak intensity 3.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 432 Typ L8



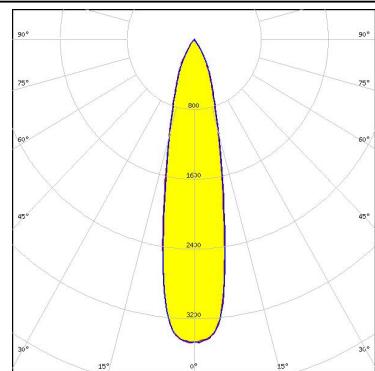
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM 20.0°
 Efficiency 87 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 432 Typ L8



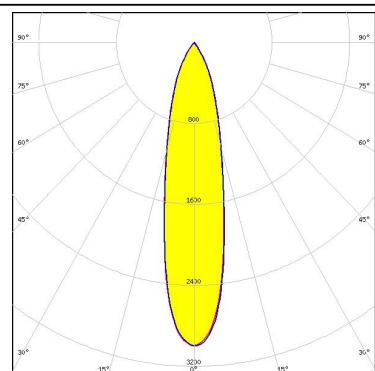
PHILIPS

LED Fortimo SLM L15 CoB
 FWHM 23.0°
 Efficiency 86 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 432 Typ L8



PHILIPS

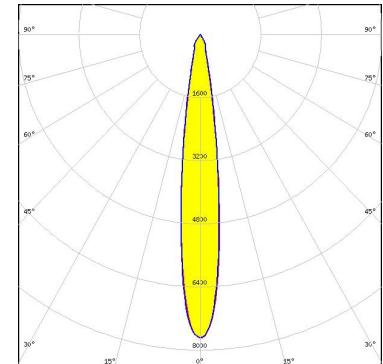
LED Fortimo SLM L15 CoB
 FWHM 23.0°
 Efficiency 81 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 432 Typ L8



PHOTOMETRIC DATA (MEASURED):

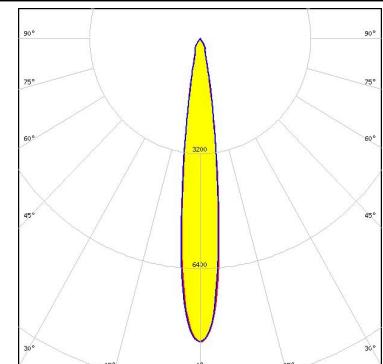
SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
 FWHM 15.0°
 Efficiency 90 %
 Peak intensity 7.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



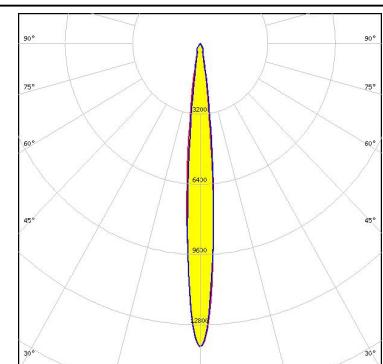
SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
 FWHM 14.0°
 Efficiency 90 %
 Peak intensity 8.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



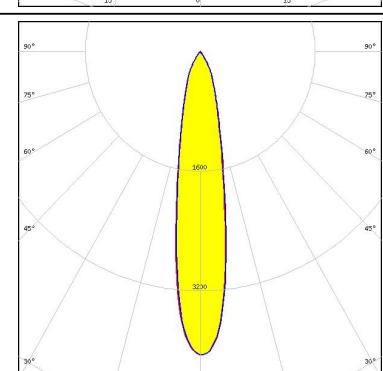
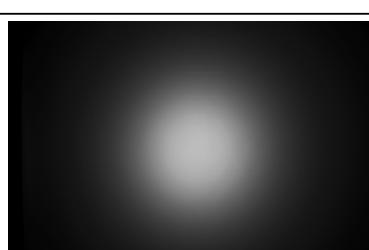
SAMSUNG

LED LC010C G2
 FWHM 10.0°
 Efficiency 90 %
 Peak intensity 13.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



SAMSUNG

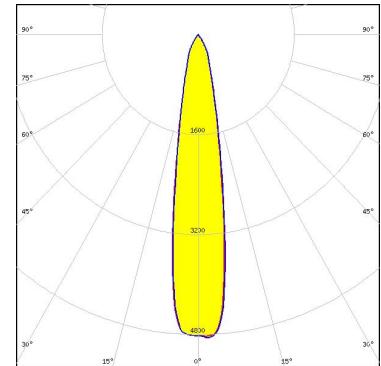
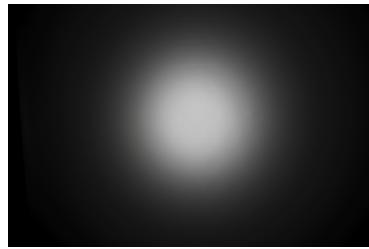
LED LC020T (Tunable white)
 FWHM 19.0°
 Efficiency 82 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 501 Typ L8



PHOTOMETRIC DATA (MEASURED):

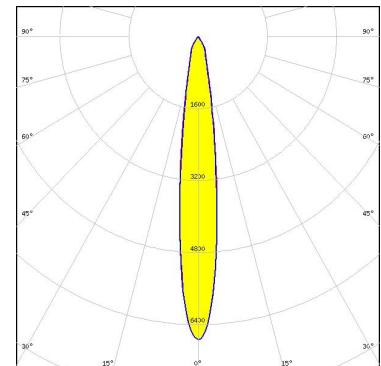
SAMSUNG

LED LC020T (Tunable white)
 FWHM 19.0°
 Efficiency 87 %
 Peak intensity 4.9 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 501 Typ L8



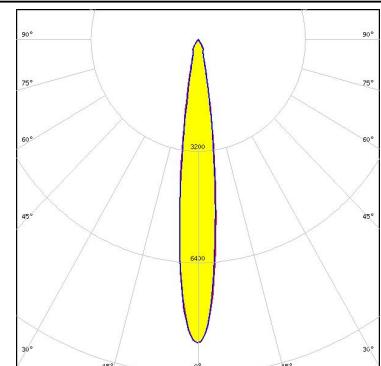
TRIDONIC

LED SLE G7 LES09
 FWHM 14.0°
 Efficiency 88 %
 Peak intensity 6.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C
 C14658_BARBARA-RZ-LENS



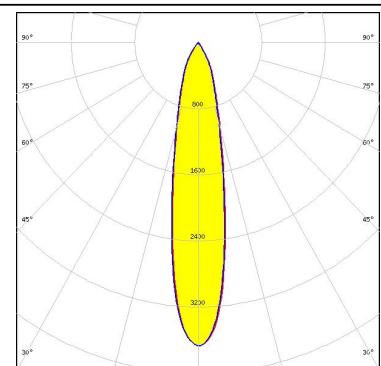
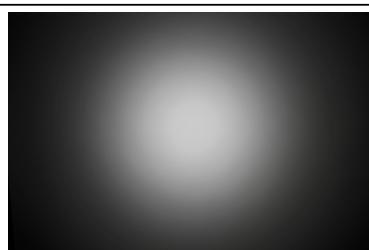
TRIDONIC

LED SLE G7 LES09
 FWHM 14.0°
 Efficiency 92 %
 Peak intensity 8.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



TRIDONIC

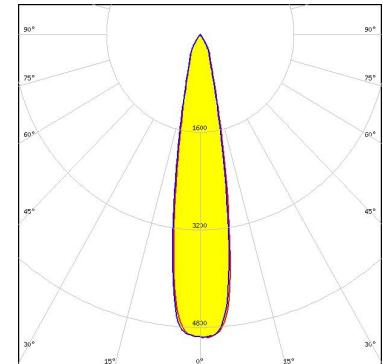
LED SLE G7 LES13
 FWHM 20.0°
 Efficiency 82 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I
 C14658_BARBARA-RZ-LENS



PHOTOMETRIC DATA (MEASURED):

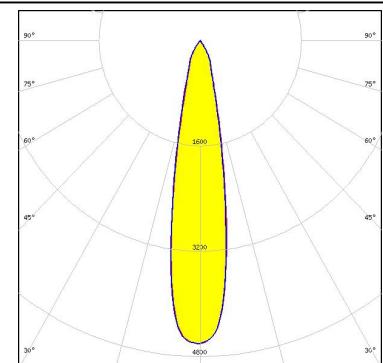
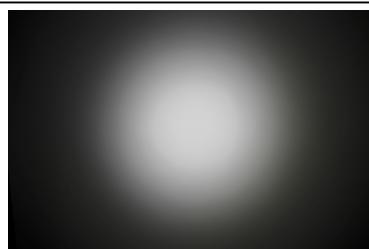
TRIDONIC

LED SLE G7 LES13
FWHM 20.0°
Efficiency 92 %
Peak intensity 5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



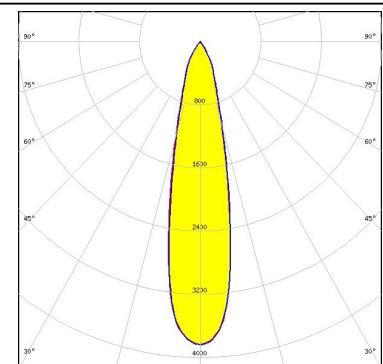
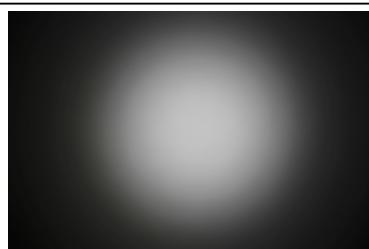
TRIDONIC

LED SLE G7 LES13
FWHM 20.0°
Efficiency 5 %
Peak intensity 89 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



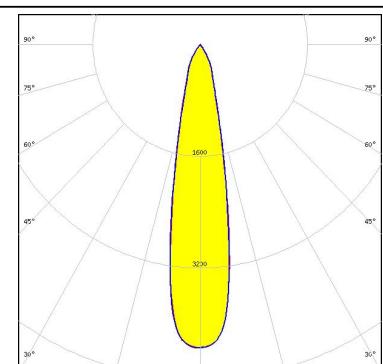
TRIDONIC

LED SLE G7 LES15
FWHM 23.0°
Efficiency 89 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



XICATO

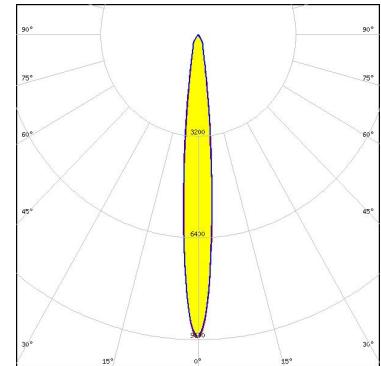
LED XOB 14.5 mm
FWHM 21.0°
Efficiency 91 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



PHOTOMETRIC DATA (MEASURED):

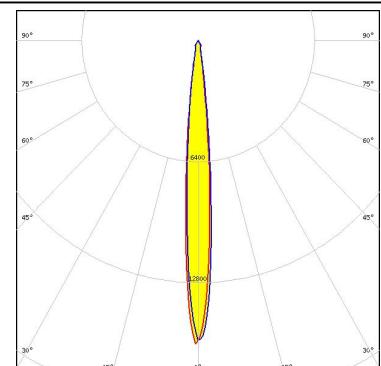
XICATO

LED XOB 6 mm
 FWHM 11.0°
 Efficiency 85 %
 Peak intensity 9.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C
 C14658_BARBARA-RZ-LENS



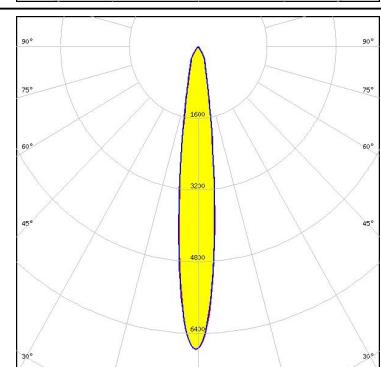
XICATO

LED XOB 6 mm
 FWHM 9.0°
 Efficiency 89 %
 Peak intensity 16 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



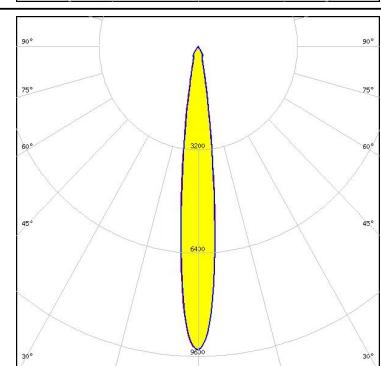
XICATO

LED XOB 9.8 mm
 FWHM 14.0°
 Efficiency 86 %
 Peak intensity 6.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C
 C14658_BARBARA-RZ-LENS



XICATO

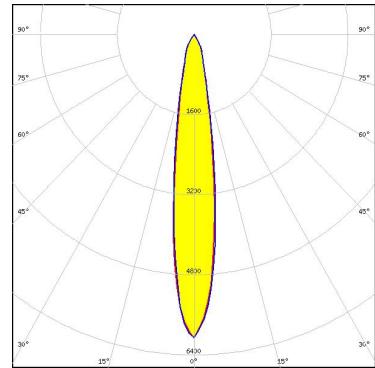
LED XOB 9.8 mm
 FWHM 13.0°
 Efficiency 90 %
 Peak intensity 9.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



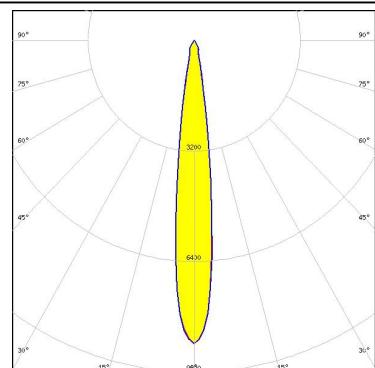
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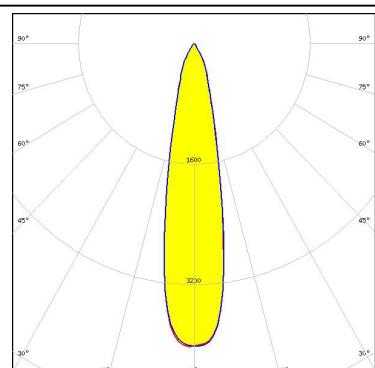
LED	Vesta DTW 15mm (33W)
FWHM	16.0°
Efficiency	86 %
Peak intensity	6.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C16142_HEKLA-SOCKET-K
	Bender Wirth: 491 Typ L8



LED	CMT14xx
FWHM	13.0°
Efficiency	84 %
Peak intensity	8.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15255_HEKLA-SOCKET-C



LED	LUXEON CoB 1208
FWHM	21.0°
Efficiency	86 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C16142_HEKLA-SOCKET-K



LED	COB L-Type (LES 11)
FWHM	18.0°
Efficiency	89 %
Peak intensity	5.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15858_HEKLA-SOCKET-H

PHOTOMETRIC DATA (SIMULATED):



LED	COB L-Type (LES 9)
FWHM	14.0°
Efficiency	89 %
Peak intensity	8.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15858_HEKLA-SOCKET-H

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.

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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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