

HB-2X2-O

~20° + 115° oval beam for aisle lighting

TECHNICAL SPECIFICATIONS:

Dimensions 50.0 x 50.0 mm

Height 10.6 mm

Fastening glue, pin, screw

ROHS compliant yes 1



MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourFinishHB-2X2-OMulti-lensPMMAclear

ORDERING INFORMATION:

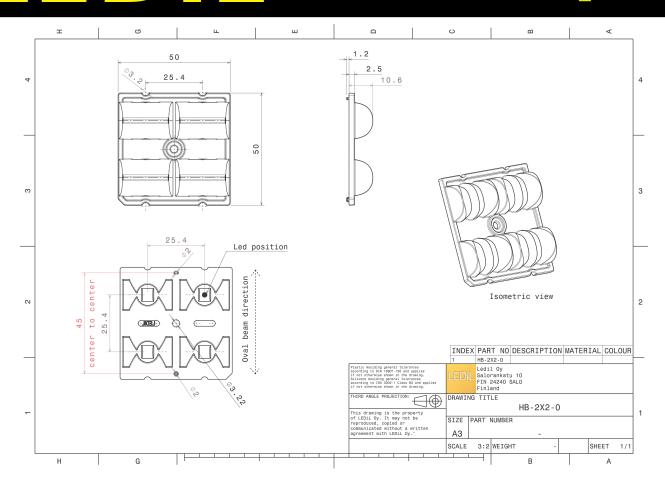
Component

» Box size: 480 x 280 x 300 mm

C13749_HB-2X2-O

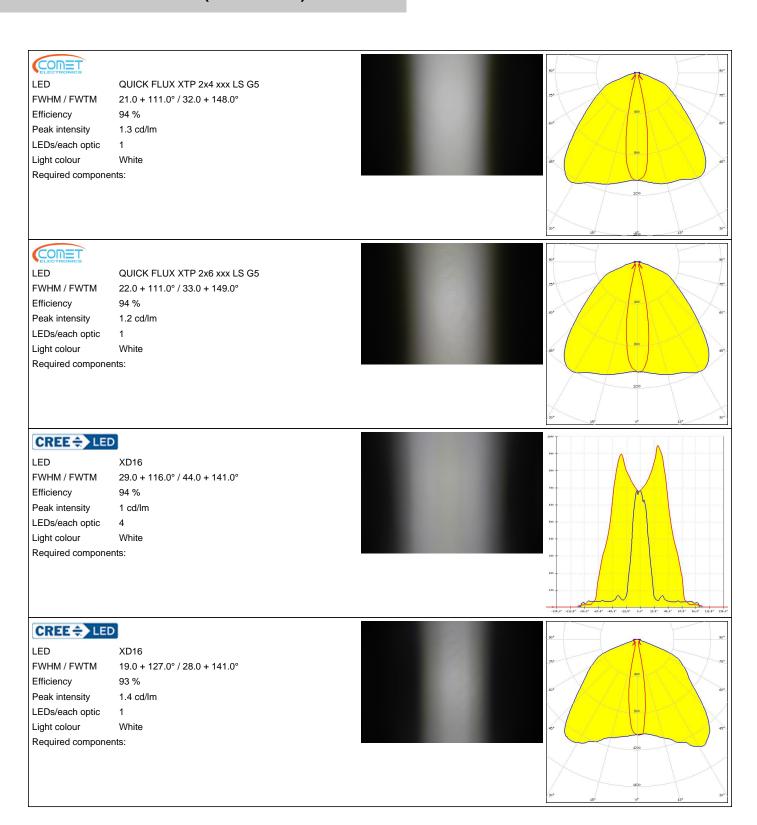
Qty in box MOQ MPQ Box weight (kg) 800 160 160 10.4

PRODUCT DATASHEET C13749_HB-2X2-O

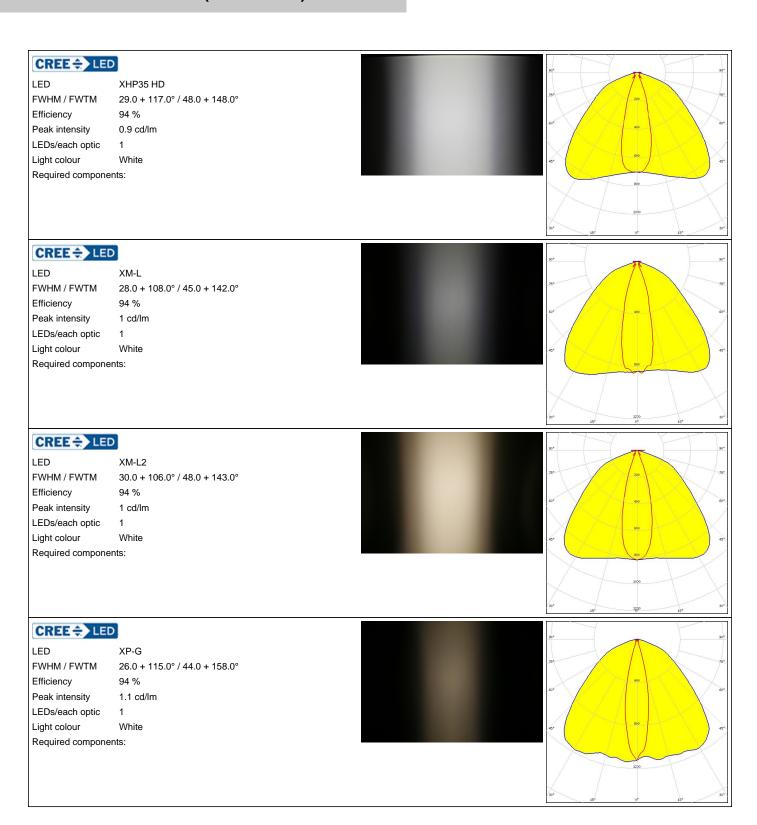


See also our general installation guide: www.ledil.com/installation_guide

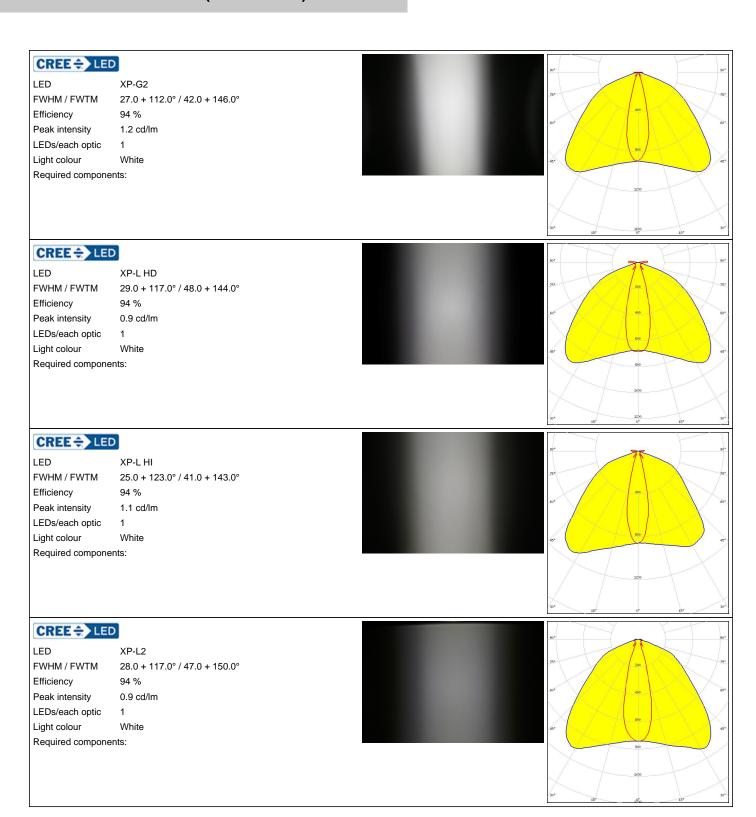










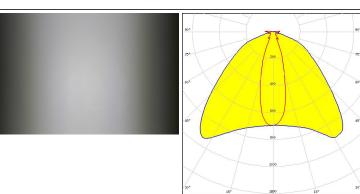




MUMILEDS

LED LUXEON 5050 Round LES FWHM / FWTM 29.0 + 114.0° / 51.0 + 147.0°

Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

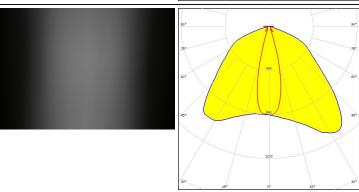


LUMILEDS

LED LUXEON MZ

FWHM / FWTM 28.0 + 103.0° / 43.0 + 14.0°

Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



DESCRIPTION LUMILEDS

LED LUXEON R

FWHM / FWTM 25.0 + 105.0° / 44.0 + 148.0°

Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

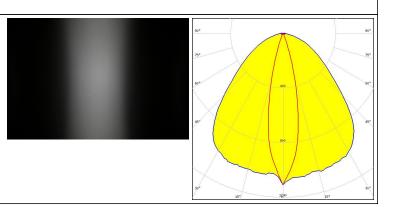


DESCRIPTION LUMILEDS

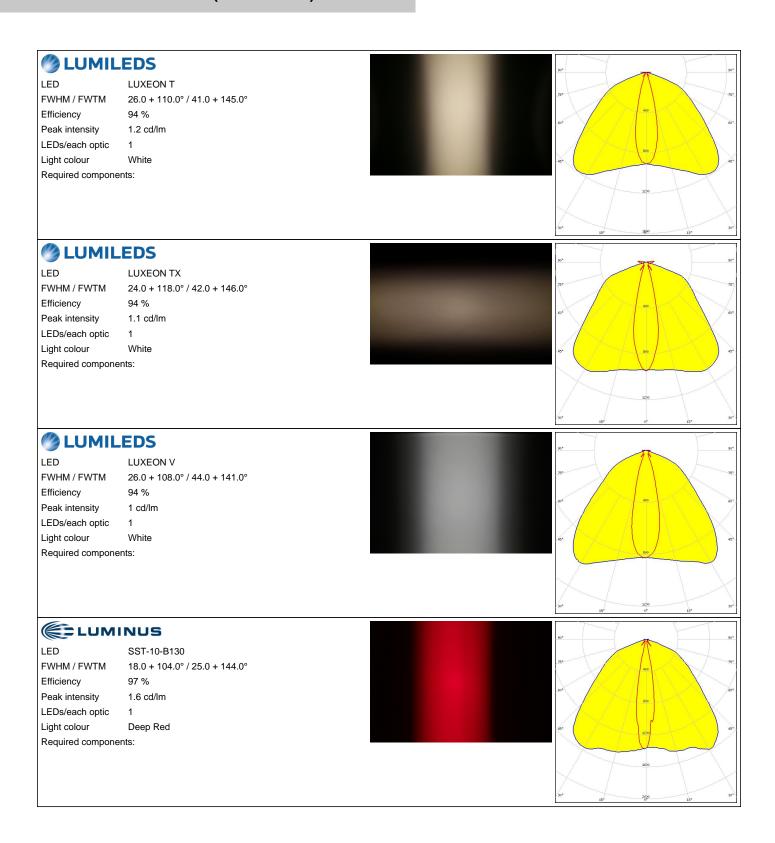
LED LUXEON Rebel ES

FWHM / FWTM 25.0 + 106.0° / 42.0 + 150.0°

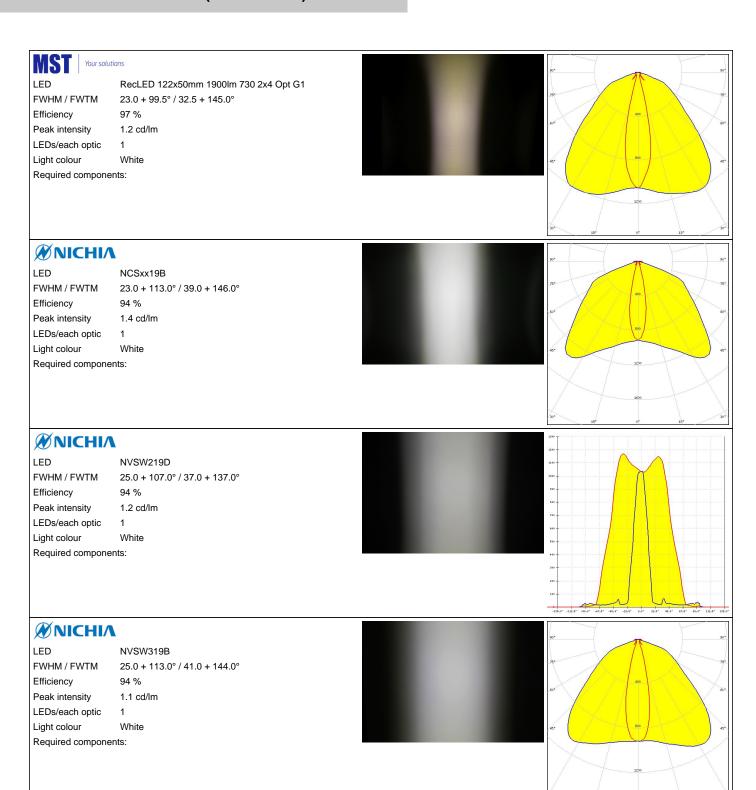
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



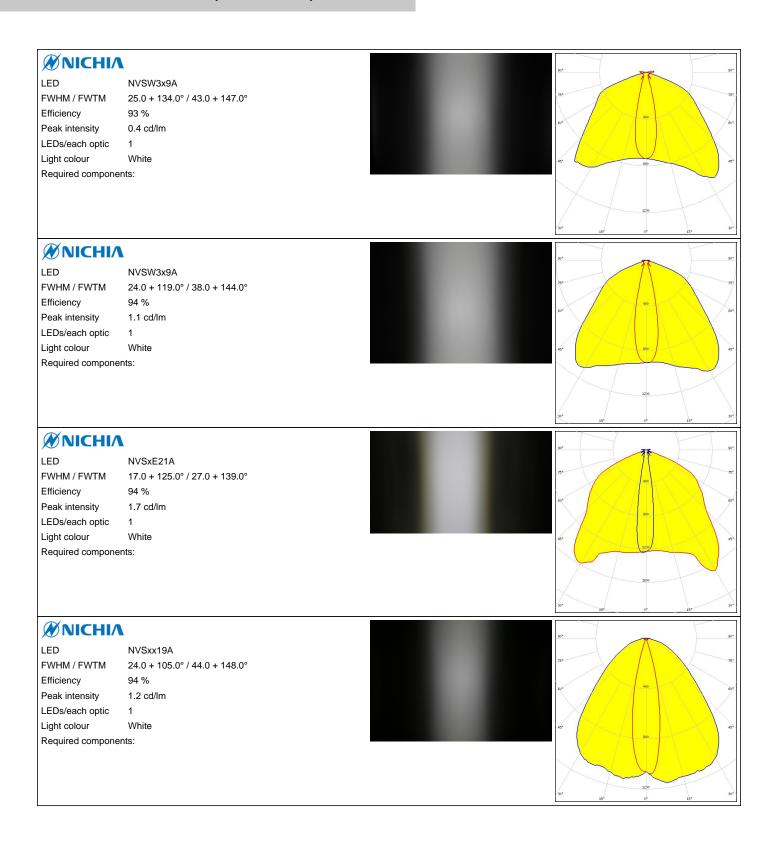




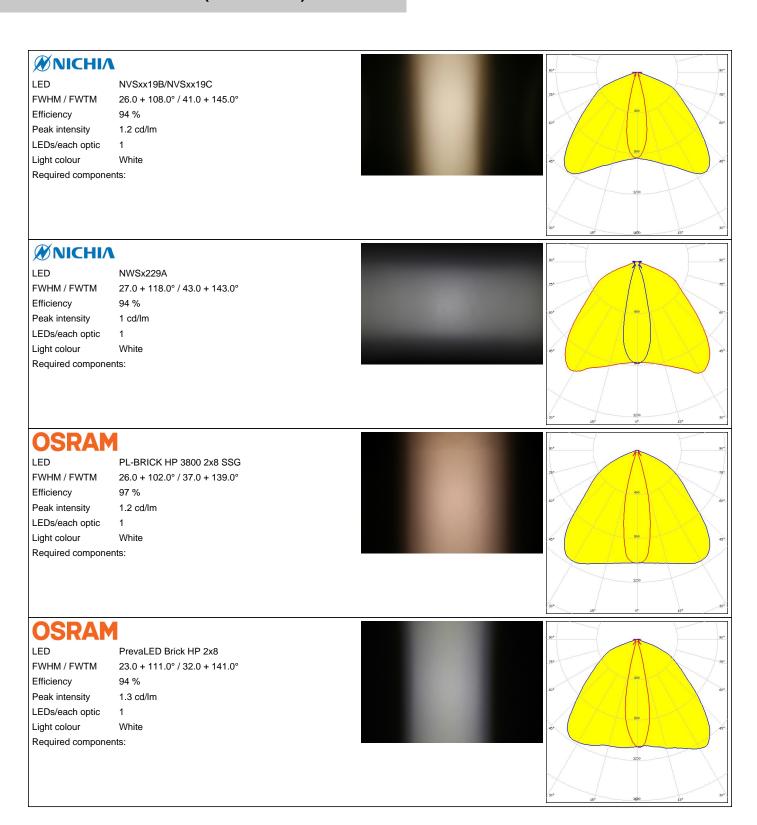












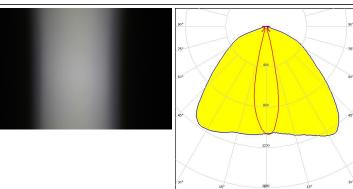


OSRAM

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 23.0 + 111.0° / 32.0 + 141.0°

Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

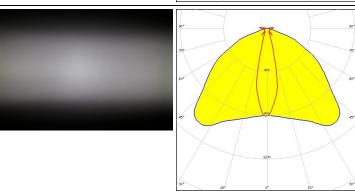


OSRAM

Opto Semiconductor

LED OSLON Square PC FWHM / FWTM 25.0 + 124.0° / 42.0 + 145.0°

Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

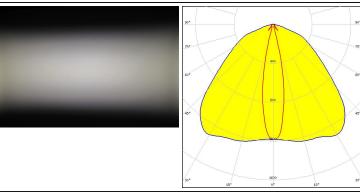


PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4

FWHM / FWTM 21.0 + 108.0° / 31.0 + 147.0°

Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

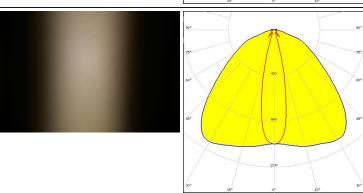


PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+

FWHM / FWTM 24.0 + 104.0° / 37.0 + 145.0°

Efficiency 97 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



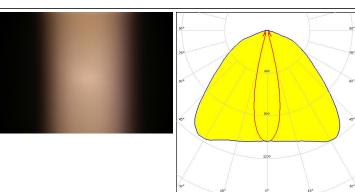


PHILIPS

LED Fortimo FastFlex LED 2x8 DA G5 FWHM / FWTM 24.0 + 103.0° / 34.0 + 144.0°

Efficiency 97 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1

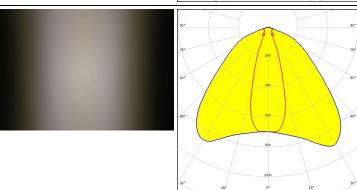
Light colour White Required components:



PHILIPS

LED Fortimo FastFlex LED 2x8 DA HE FWHM / FWTM 32.0 + 98.0° / 51.0 + 142.0°

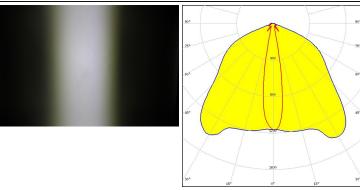
Efficiency 98 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED HiLOM RC12 Z (LH181B)
FWHM / FWTM 19.0 + 106.0° / 31.0 + 140.0°

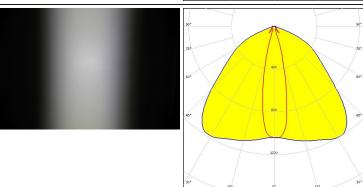
Efficiency 98 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED HILOM RH12 Z (LH351C)
FWHM / FWTM 23.0 + 102.0° / 36.0 + 139.0°

Efficiency 97 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

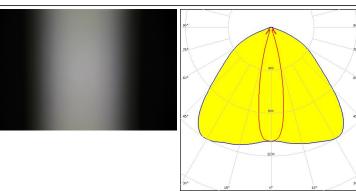




SAMSUNG

LED HILOM RH16 (LH351C) FWHM / FWTM 23.0 + 106.0° / 36.0 + 140.0°

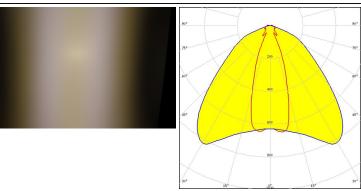
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED HiLOM RM12 Z (LH502C) FWHM / FWTM 35.0 + 98.0° / 76.0 + 141.0°

Efficiency 96 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

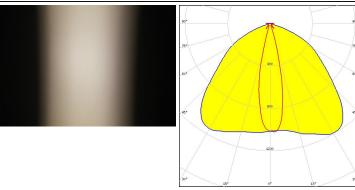


SAMSUNG

LED LH351B

FWHM / FWTM 23.0 + 113.0° / 35.0 + 141.0°

Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

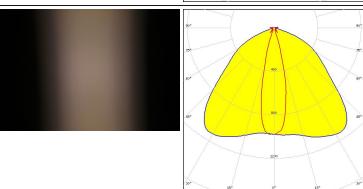


SAMSUNG

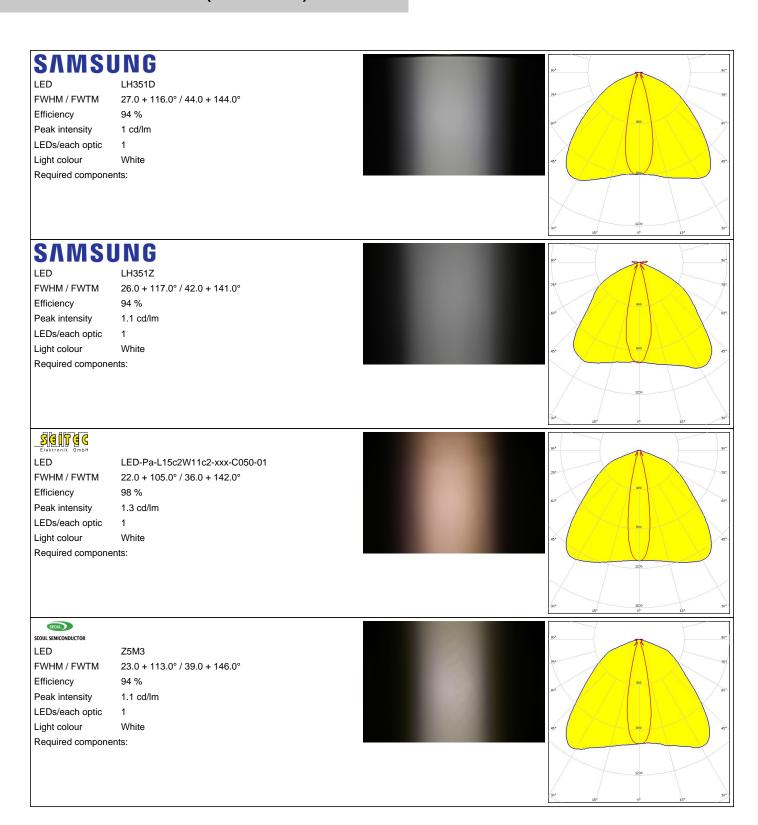
LED LH3510

FWHM / FWTM 24.0 + 111.0° / 37.0 + 141.0°

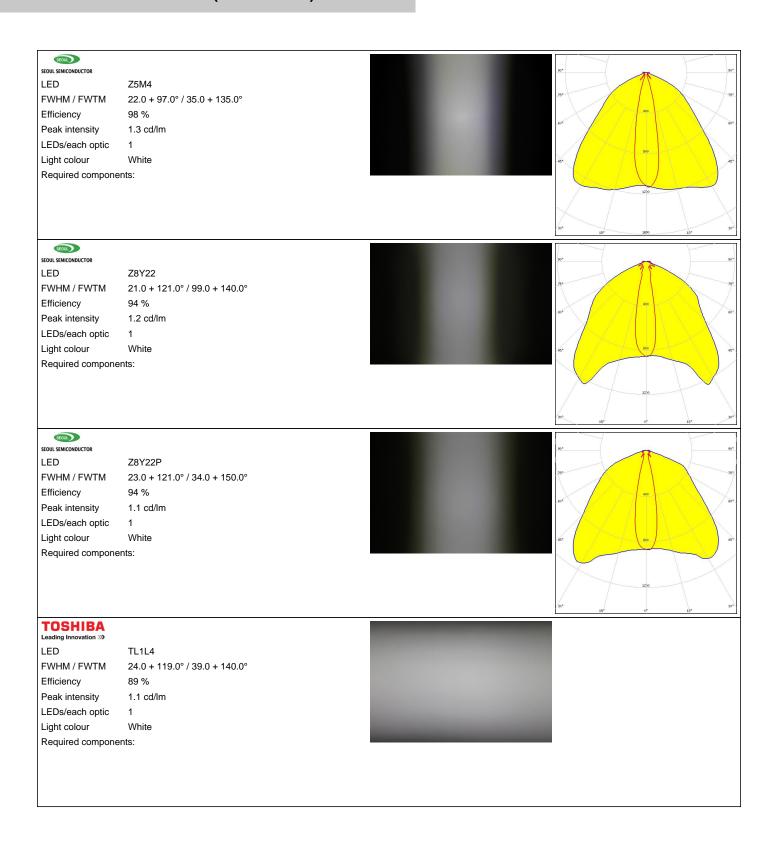
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:













TRIDONIC

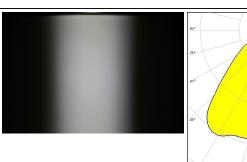
LED RLE 2x4 2000lm HP EXC2 OTD FWHM / FWTM 22.0 + 113.0° / 30.0 + 149.0°

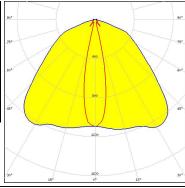
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM 22.0 + 113.0° / 30.0 + 149.0°

Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



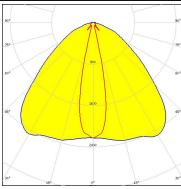


TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD

FWHM / FWTM 23.0 + 104.0° / 31.0 + 144.0°

Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

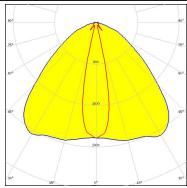


TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD

FWHM / FWTM 23.0 + 104.0° / 31.0 + 144.0°

Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



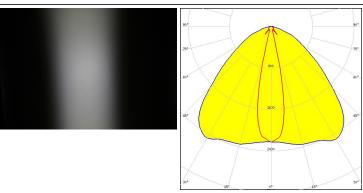


TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD

FWHM / FWTM 23.0 + 104.0° / 31.0 + 144.0°

Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

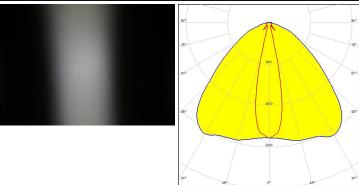


TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD

FWHM / FWTM 23.0 + 104.0° / 31.0 + 144.0°

Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

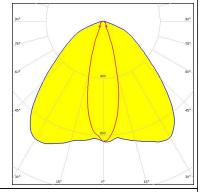




CREE 1 LED

LED J Series 5050 Round LES FWHM / FWTM 30.0 + 97.0° / 51.0 + 141.0°

Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

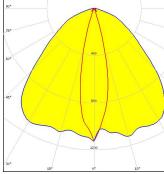


CREE & LED

LED XHP35 HI

FWHM / FWTM 101.0 + 27.0° / 145.0 + 44.0°

Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

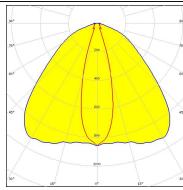


CREE - LED

LED XHP50.3 HI

FWHM / FWTM 28.0 + 100.0° / 44.0 + 144.0°

Efficiency 95 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

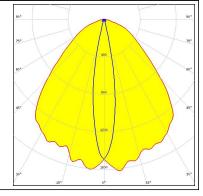


CREE - LED

LED XP-E2

FWHM / FWTM 93.0 + 18.0° / 141.0 + 30.0°

Efficiency 94 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:





CREE . LED

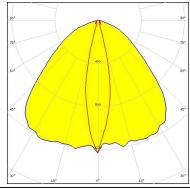
LED XP-G2

FWHM / FWTM 21.0 + 98.0° / 33.0 + 141.0°

Efficiency 91 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

Protective plate, glass



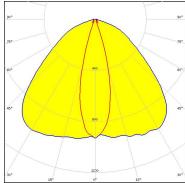
CREE - LED

LED XP-G2 HE

FWHM / FWTM 28.0 + 103.0° / 41.0 + 144.0°

Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components:



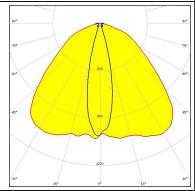
CREE \$\(\preceq\) LED

LED XP-G3

FWHM / FWTM 103.0 + 29.0° / 146.0 + 49.0°

Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:



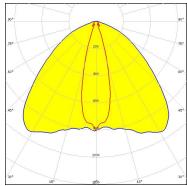
CREE - LED

LED XP-L HD

FWHM / FWTM 26.0 + 103.0° / 42.0 + 140.0°

Efficiency 88 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

Protective plate, glass





CREE . LED

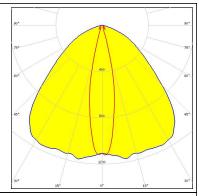
LED XP-L HI

FWHM / FWTM 22.0 + 98.0° / 34.0 + 140.0°

Efficiency 88 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

Protective plate, glass



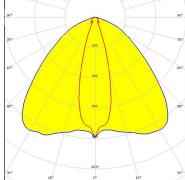
CREE - LED

LED XP-L2

FWHM / FWTM 28.0 + 100.0° / 46.0 + 140.0°

Efficiency 87 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

Protective plate, glass



CREE \$\text{LED}

LED XQ-E HI

FWHM / FWTM 96.0 + 14.0° / 144.0 + 25.0°

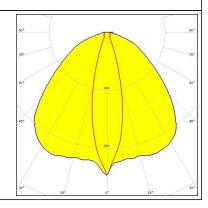
Efficiency %
LEDs/each optic 1
Light colour White

Required components:



CREE + LED

LED XT-E HE
FWHM / FWTM 100.0 + 24.0°
Efficiency 94 %
LEDs/each optic 1
Light colour White



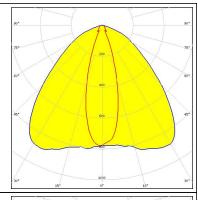


MUMILEDS

LED LUXEON 5050 Round LES FWHM / FWTM 30.0 + 96.0° / 48.0 + 140.0°

Efficiency 88 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

Protective plate, glass



MUMILEDS

LED LUXEON 5050 Square LES FWHM / FWTM 30.0 + 98.0° / 50.0 + 142.0°

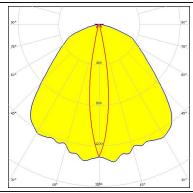
Efficiency 95 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

55*

UMILEDS

LED LUXEON IR Domed 150 FWHM / FWTM 16.0 + 98.0° / 28.0 + 149.0°

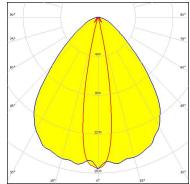
Efficiency 94 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



MUMILEDS

LED LUXEON IR Domed 90 FWHM / FWTM 20.0 + 86.0° / 29.0 + 128.0°

Efficiency 95 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:





MST

Your solution

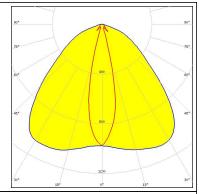
LED RecLED 122x50mm 1900lm 730 2x4 Opt G1

FWHM / FWTM 24.0 + 97.0° / 34.0 + 141.0°

Efficiency 86 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

Protective plate, glass



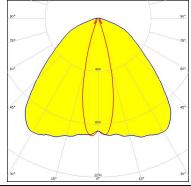
WNICHIA

LED NV4WB35AM

FWHM / FWTM 28.0 + 100.0° / 42.0 + 144.0°

Efficiency 95 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components:



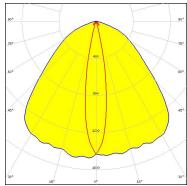
OSRAM Opto Semiconductors

LED OSCONIQ C 2424

FWHM / FWTM 18.0 + 96.0° / 30.0 + 141.0°

Efficiency 96 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

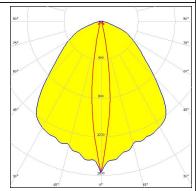


OSRAM

LED OSCONIQ P 3030

FWHM / FWTM 14.0 + 92.0° / 28.0 + 142.0°

Efficiency 95 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White





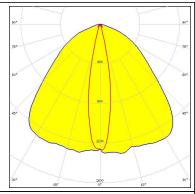
OSRAM

LED OSCONIQ P 3737 (2W version)

FWHM / FWTM 99.0 + 19.0° / 142.0 + 31.0° Efficiency 94 %

Peak intensity 1.3 cd/lm LEDs/each optic Light colour White

Required components:

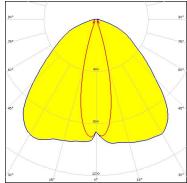


OSRAM

OSCONIQ P 3737 (3W version) LED FWHM / FWTM 100.0 + 30.0° / 144.0 + 51.0°

Efficiency 94 % Peak intensity 1 cd/lm LEDs/each optic 1 White Light colour

Required components:

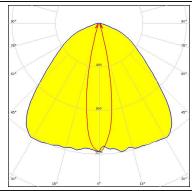


OSRAM Opto Semiconductors

LED OSCONIQ P 3737 Flat FWHM / FWTM 22.0 + 98.0° / 35.0 + 142.0°

Efficiency 96 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White

Required components:



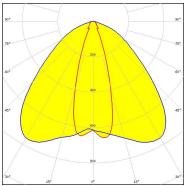
OSRAM

LED OSCONIQ S 5050

FWHM / FWTM 32.0 + 98.0° / 53.0 + 140.0°

Efficiency 85 % Peak intensity 0.8 cd/lm LEDs/each optic White Light colour Required components:

Protective plate, glass





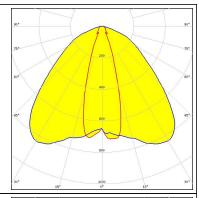
OSRAM

LED OSCONIQ S 5050

FWHM / FWTM 32.0 + 99.0° / 52.0 + 143.0°

Efficiency 96 % Peak intensity 0.8 cd/lm LEDs/each optic Light colour White

Required components:

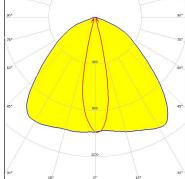


OSRAM

OSLON Square CSSRM2/CSSRM3 LED FWHM / FWTM 23.0 + 101.0° / 33.0 + 140.0°

Efficiency 85 % Peak intensity 1.1 cd/lm LEDs/each optic 1 White Light colour Required components:

Protective plate, glass

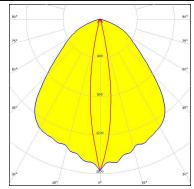


OSRAM Opto Semiconductors

LED OSLON Square Flat FWHM / FWTM 16.0 + 90.0° / 30.0 + 140.0°

Efficiency 96 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White

Required components:



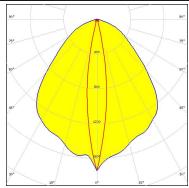
OSRAM

LED

OSTAR Projection Compact (Kx.CSLNM1.xx)

FWHM / FWTM 16.0 + 89.0° / 28.0 + 140.0°

Efficiency 96 % Peak intensity 1.7 cd/lm LEDs/each optic 1 White Light colour





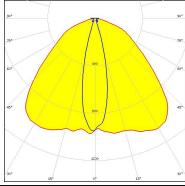
PHILIPS

Fortimo FastFlex LED 2x8 DAX G4

FWHM / FWTM 103.0 + 29.0° / 146.0 + 49.0°

Efficiency 94 % Peak intensity 1.1 cd/lm LEDs/each optic Light colour White

Required components:

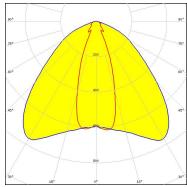


SAMSUNG

LED HiLOM RM12 Z (LH502C) 36.0 + 98.0° / 78.0 + 140.0° FWHM / FWTM

Efficiency 89 % Peak intensity 0.8 cd/lm LEDs/each optic 1 White Light colour

Required components:



Protective plate, glass

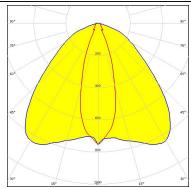


LED MJT 5050

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 32.0 + 98.0° / 52.0 + 142.0°

Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White

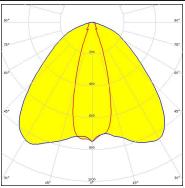
Required components:





LED SEOUL DC 5050 6V FWHM / FWTM 33.0 + 98.0° / 58.0 + 143.0°

94 % Efficiency Peak intensity 0.9 cd/lm LEDs/each optic White Light colour







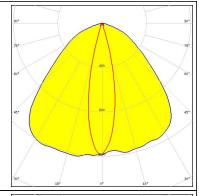
LED

Z5M1/Z5M2

FWHM / FWTM 22.0 + 97.0° / 34.0 + 142.0°

Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

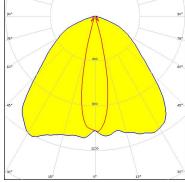


SEOUL SEMICONDUCTOR

LED Z8Y22T

FWHM / FWTM 21.0 + 96.0° / 33.0 + 141.0°

Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White





PRODUCT DATASHEET C13749_HB-2X2-O

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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