

HB-2X2-O

~20° + 115° oval beam for aisle lighting

SPECIFICATION:

50.0 x 50.0 mm **Dimensions** Height 10.6 mm glue, pin, screw Fastening **ROHS** compliant yes 🕕



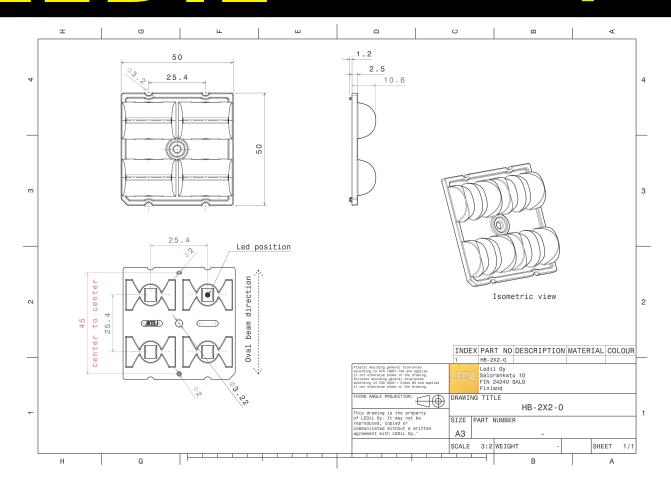
MATERIALS:

Component Type Material Colour **Finish** HB-2X2-O Multi-lens **PMMA** clear

ORDERING INFORMATION:

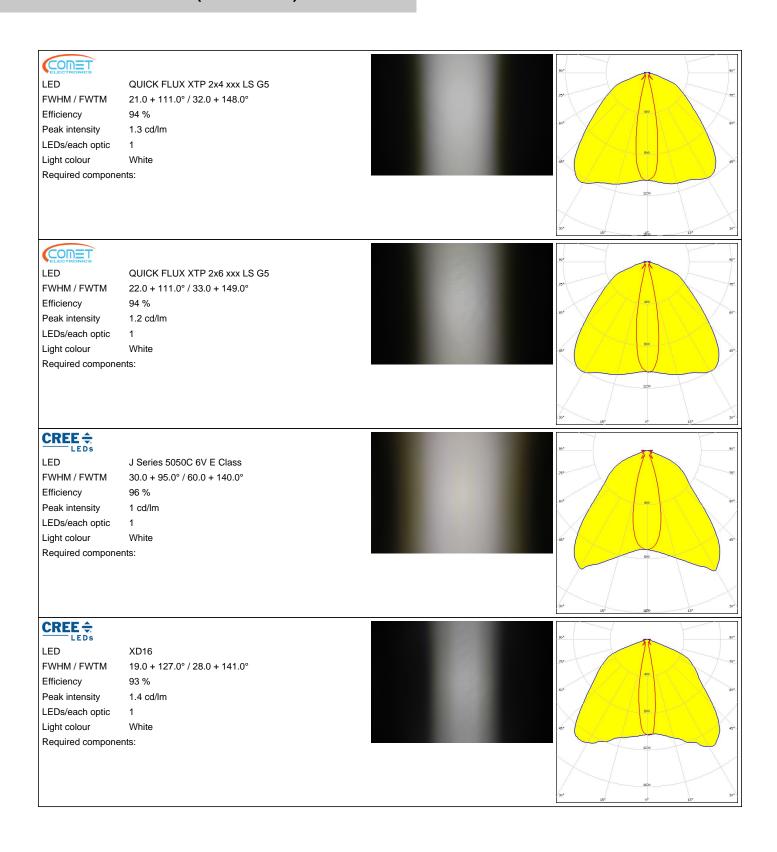
Component Qty in box MOQ MPQ Box weight (kg)

PRODUCT DATASHEET C13749_HB-2X2-O

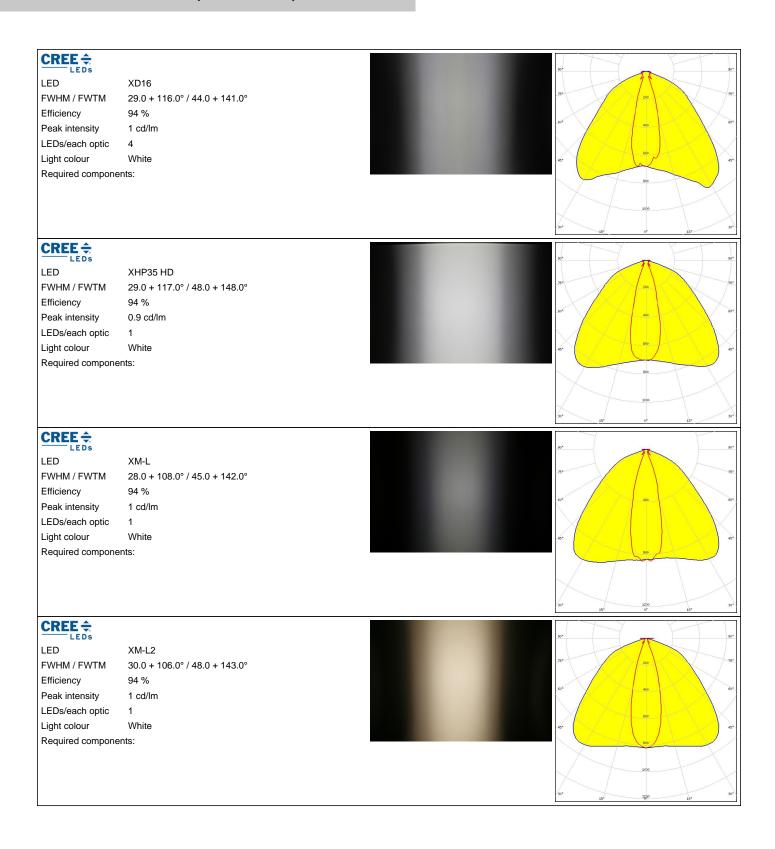


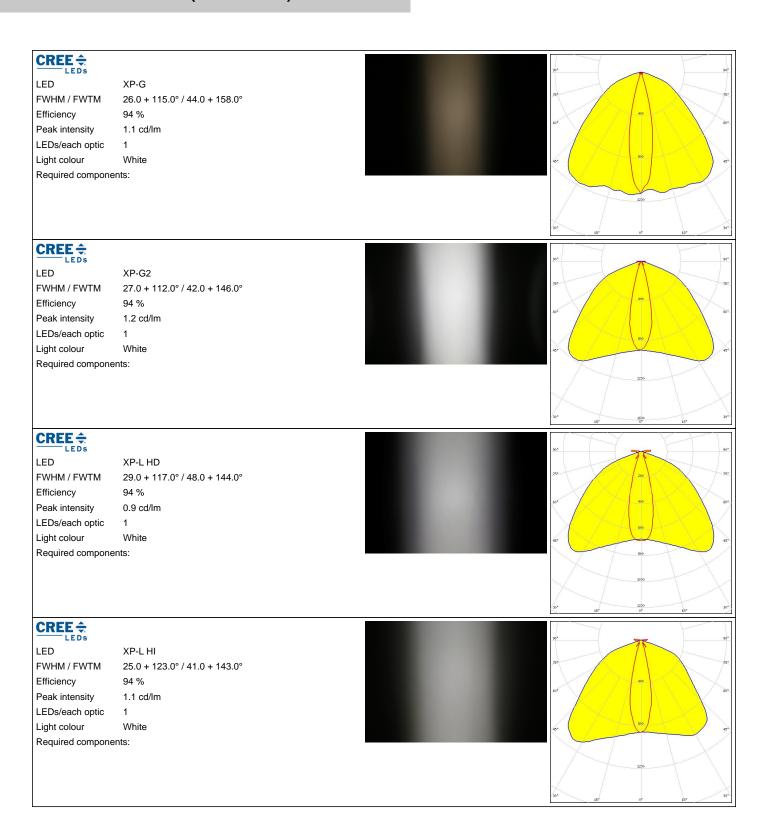
See also our general installation guide: www.ledil.com/installation_guide











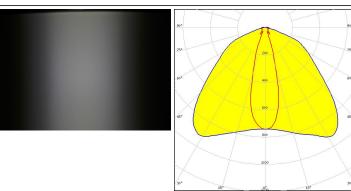


CREE &

LED XP-L2

FWHM / FWTM 28.0 + 117.0° / 47.0 + 150.0°

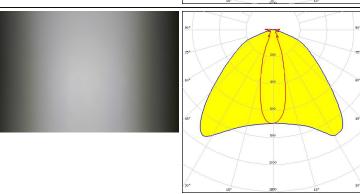
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

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:

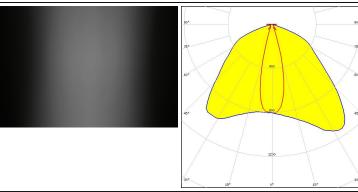


DESCRIPTION LUMILEDS

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

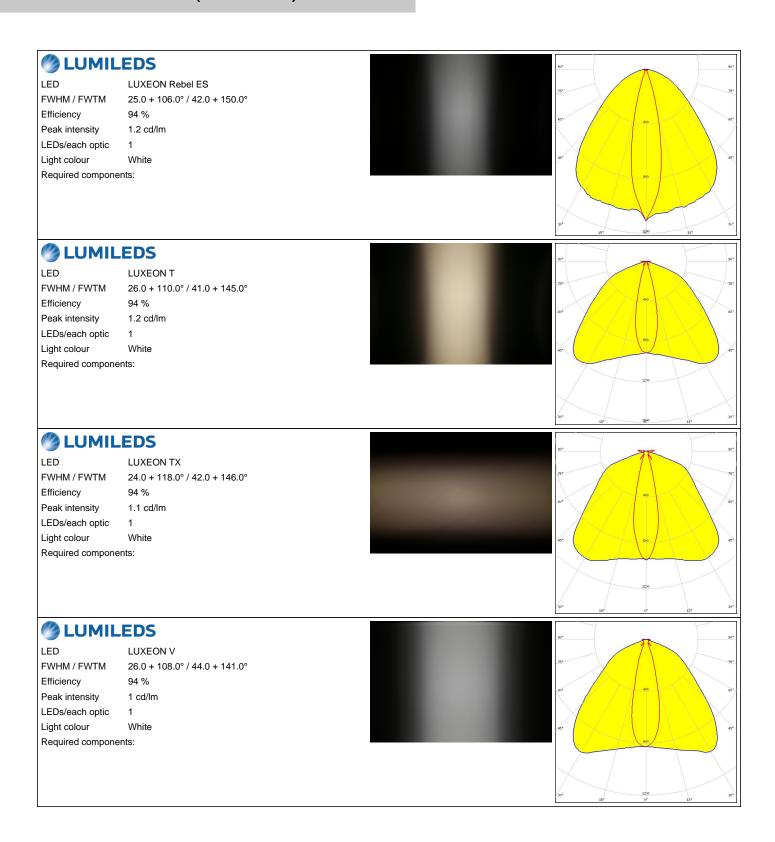
LED LUXEON R

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

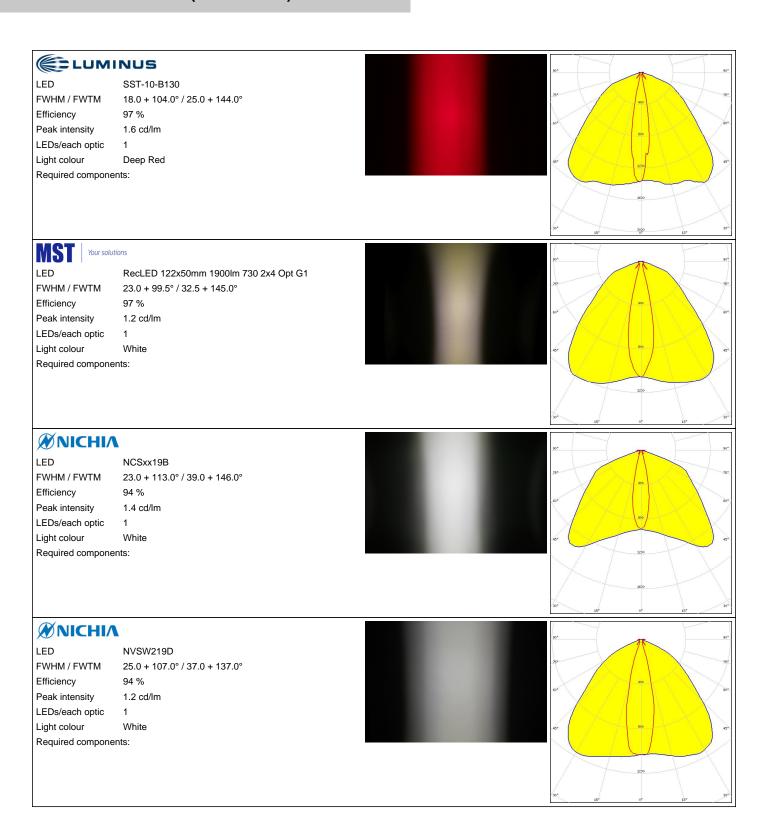
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



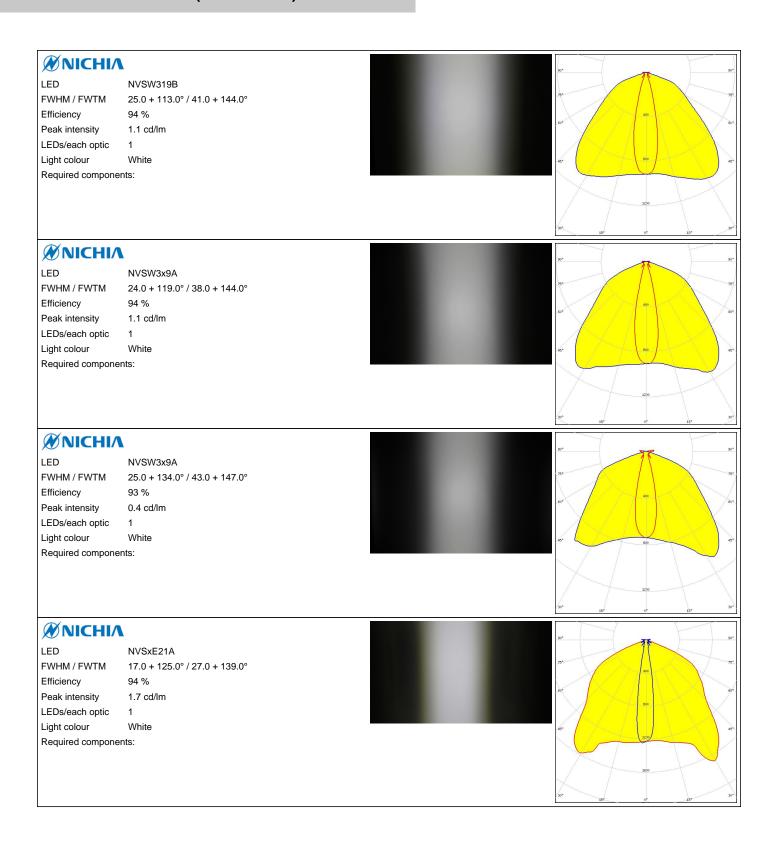




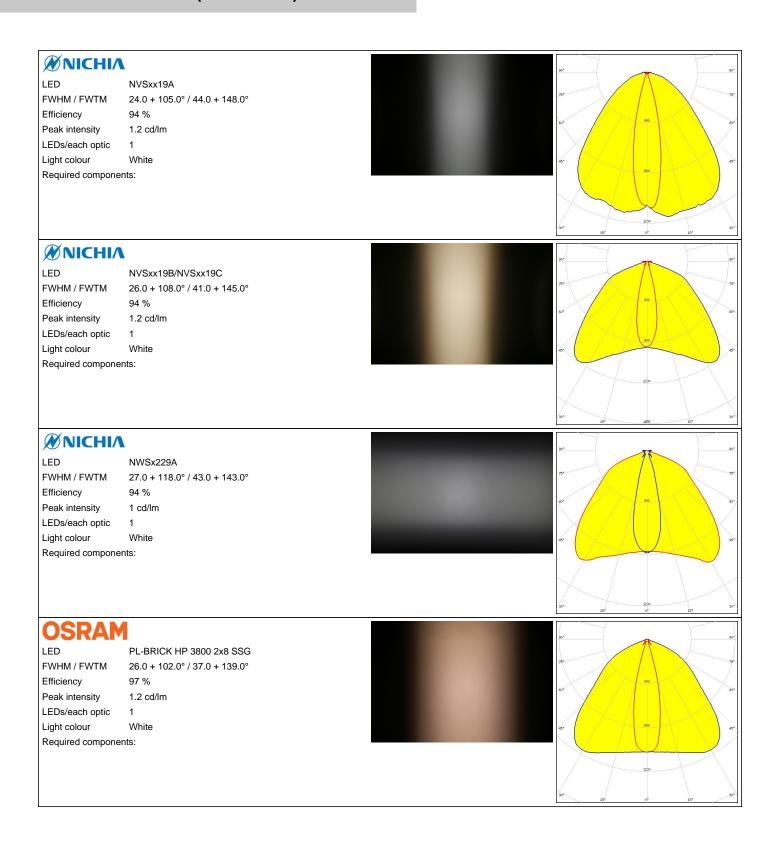




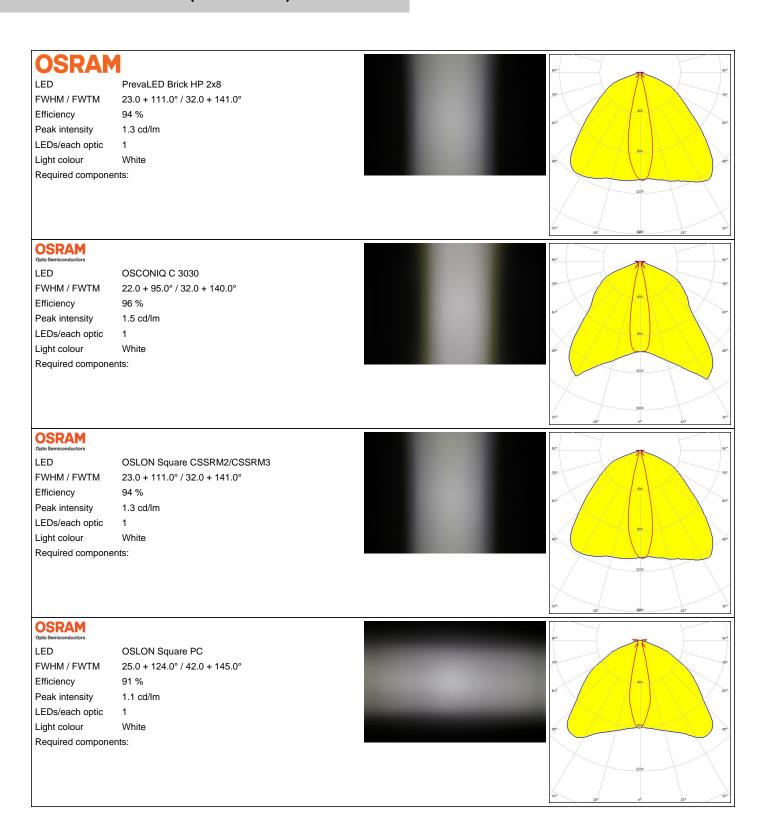










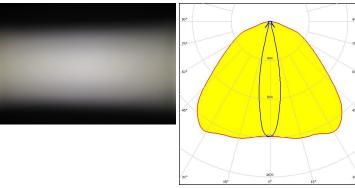




PHILIPS

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

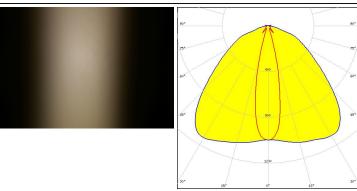


PHILIPS

Required components:

LED Fortimo FastFlex LED 2x8 DA G4+ FWHM / FWTM 24.0 + 104.0° / 37.0 + 145.0°

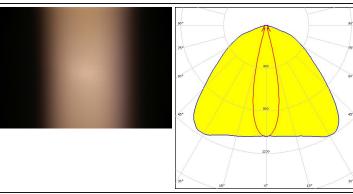
Efficiency 97 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:

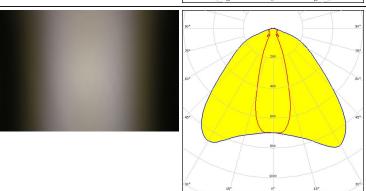


PHILIPS

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:



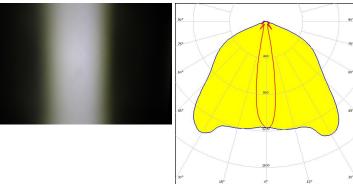


SAMSUNG

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

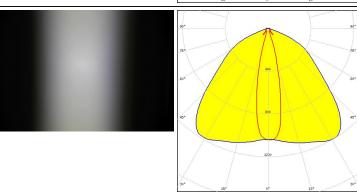
Required components:



SAMSUNG

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

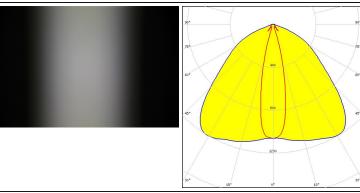
Efficiency 97 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

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

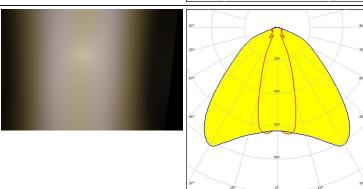
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:



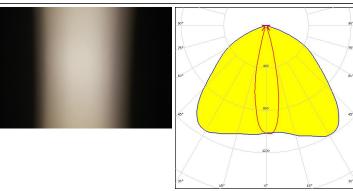


SAMSUNG

LED LH351

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:

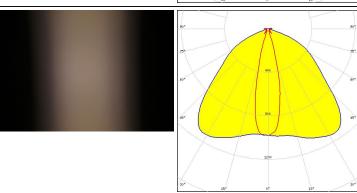


SAMSUNG

LED LH351C

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:

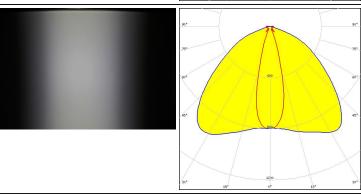


SAMSUNG

LED LH351D

FWHM / FWTM 27.0 + 116.0° / 44.0 + 144.0°

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

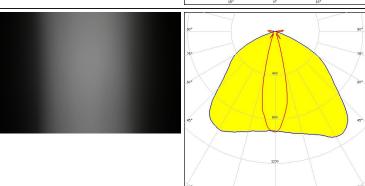


SAMSUNG

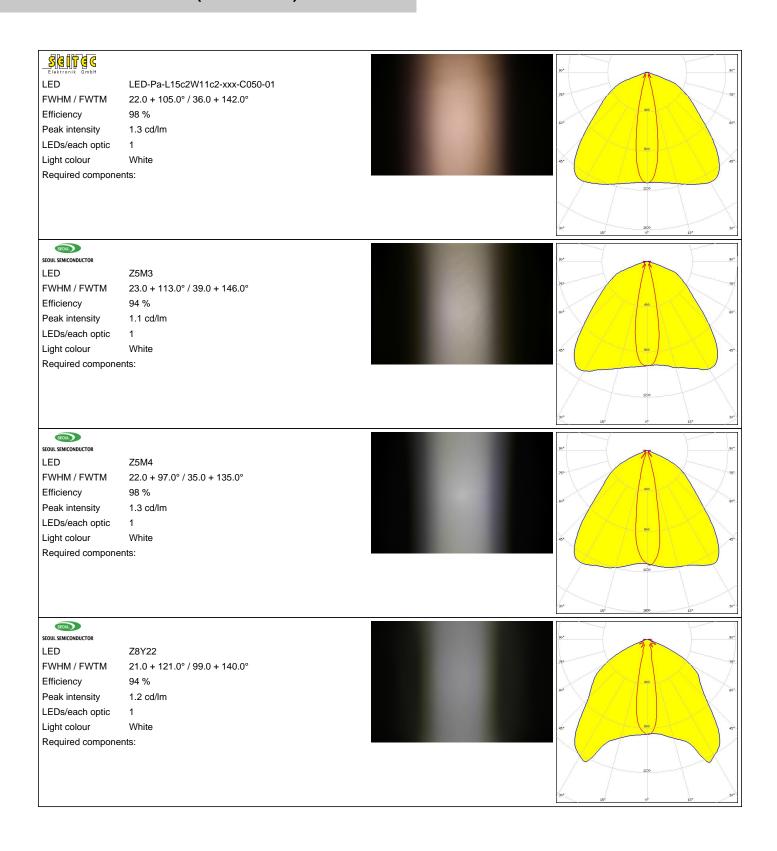
LED LH3512

FWHM / FWTM 26.0 + 117.0° / 42.0 + 141.0°

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







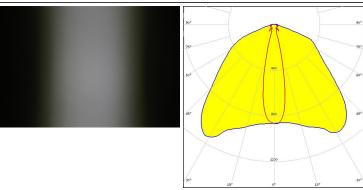




LED Z8Y22P

FWHM / FWTM 23.0 + 121.0° / 34.0 + 150.0°

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



TOSHIBA

Leading Innovation >

LED TL1L4

FWHM / FWTM 24.0 + 119.0° / 39.0 + 140.0°

Efficiency 89 %
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°

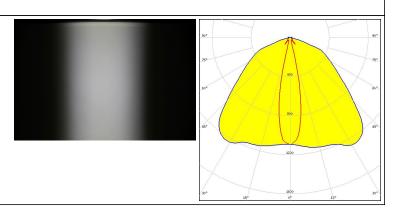
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

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:



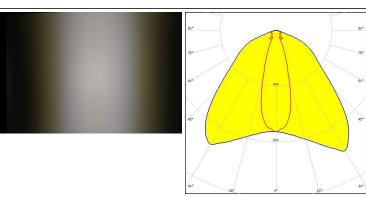


TRIDONIC

LED RLE 2x8 6000lm HP HE EXC3 OTD

FWHM / FWTM 30.0 + 96.0° / 76.0 + 141.0°

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

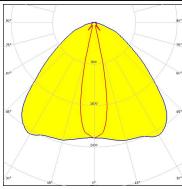


TRIDONIC

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:

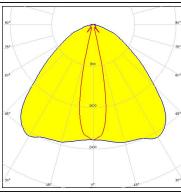


TRIDONIC

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:

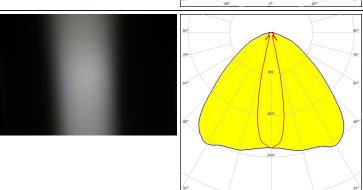


TRIDONIC

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:



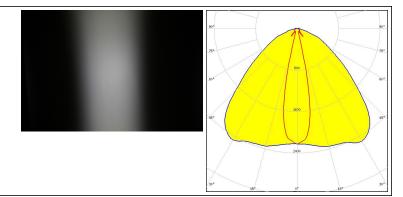


TRIDONIC

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:



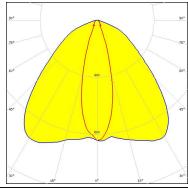


CREE &

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:



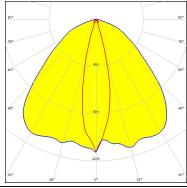
CREE \$

LED 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:

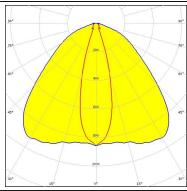


CREE \$

LED 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:



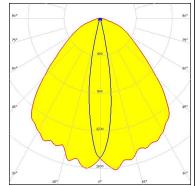
CREE +

LED 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 &

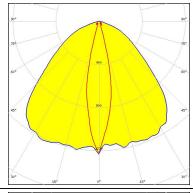
LED XP-G2

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



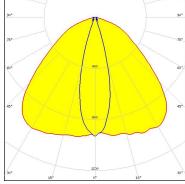
CREE \$

LED 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:

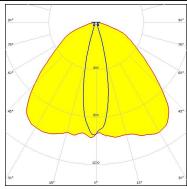


CREE &

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:

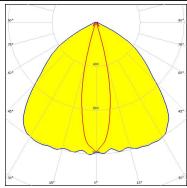


CREE \$

LED XP-G4

FWHM / FWTM 24.0 + 100.0° / 36.0 + 128.0°

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





CREE &

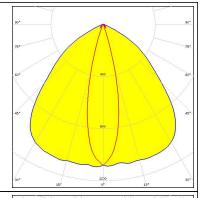
LED XP-G4

FWHM / FWTM 24.0 + 95.0° / 36.0 + 127.0°

Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

Protective plate, glass



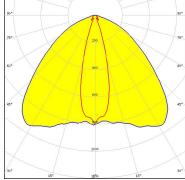
CREE \$

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



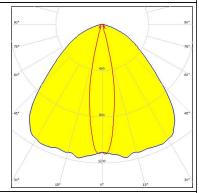
CREE -

LED 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



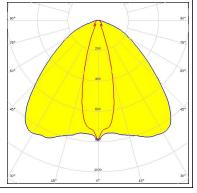
CREE -

LED 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 &

LED XQ-E HI

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

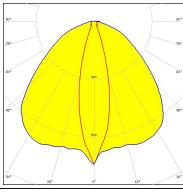
Efficiency %
LEDs/each optic 1
Light colour White

Required components:

CREE &

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

Required components:



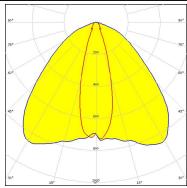
MUMILEDS

LED LUXEON 5050 HE

FWHM / FWTM 30.0 + 98.0° / 52.0 + 140.0°

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

Protective plate, glass

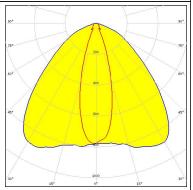


MUMILEDS

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



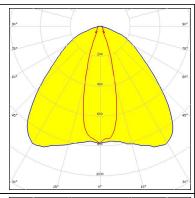


MUMILEDS

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:

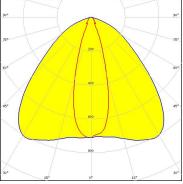


MUMILEDS

LED LUXEON 5050 Square LES FWHM / FWTM 30.0 + 96.0° / 52.0 + 140.0°

Efficiency 84 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

Protective plate, glass

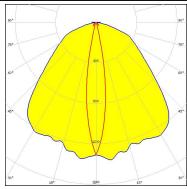


DESCRIPTION LUMILEDS

LED LUXEON IR Domed 150 (L1I0-0xxx150000000)

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:

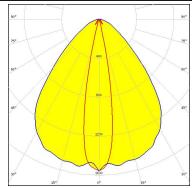


MUMILEDS

LED LUXEON IR Domed 90 (L1I0-0xxx090000000)

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:





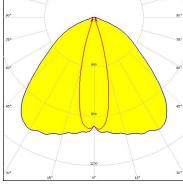


LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)

FWHM / FWTM 28.0 + 102.0° / 42.0 + 140.0°

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

Required components:



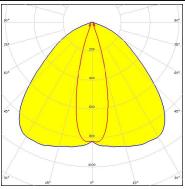
MUMILEDS

LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)

FWHM / FWTM 28.0 + 100.0° / 42.0 + 138.0°

Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

Protective plate, glass



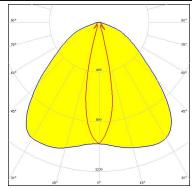
Your solution

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

Protective plate, glass



WNICHIA

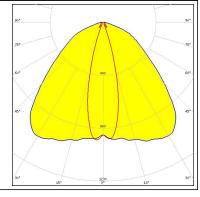
Required components:

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:





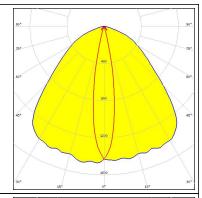
OSRAM

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 Light colour White

Required components:

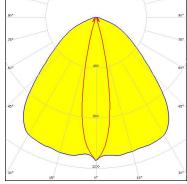


OSRAM

LED OSCONIQ C 3030 FWHM / FWTM 21.0 + 94.0° / 34.0 + 138.0°

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

Protective plate, glass



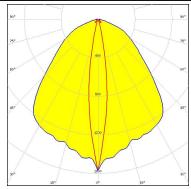
OSRAM Opto Semiconductors

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

Required components:



OSRAM

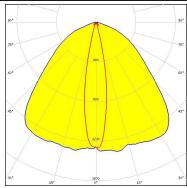
LED

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 White Light colour

Required components:





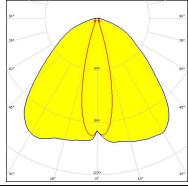
OSRAM

LED OSCONIQ P 3737 (3W version)

FWHM / FWTM 100.0 + 30.0° / 144.0 + 51.0°

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

Required components:

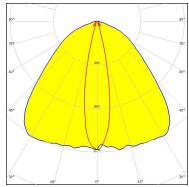


OSRAM

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 White Light colour

Required components:



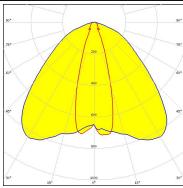
OSRAM Opto Semiconductors

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 1 Light colour White

Required components:



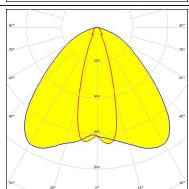
OSRAM

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





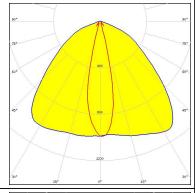
OSRAM

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 23.0 + 101.0° / 33.0 + 140.0°

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

Protective plate, glass

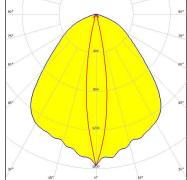


OSRAM

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 White Light colour

Required components:



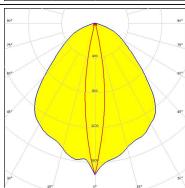
OSRAM Opto Semiconductors

OSTAR Projection Compact (KW.CSLNM1.TG) LED

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

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

Required components:



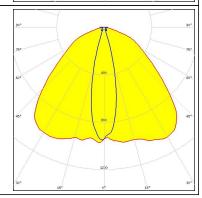
PHILIPS

Fortimo FastFlex LED 2x8 DAX G4

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

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

Required components:





SAMSUNG

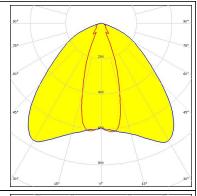
HiLOM RM12 Z (LH502C)

FWHM / FWTM 36.0 + 98.0° / 78.0 + 140.0°

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

Required components:

Protective plate, glass



SEOUL SEOUL SEMICONDUCTOR

LED MJT 5050

FWHM / FWTM 32.0 + 98.0° / 52.0 + 142.0°

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

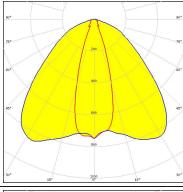
SEOUL

LED SEOUL DC 5050 6V

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 33.0 + 98.0° / 58.0 + 143.0°

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

Required components:

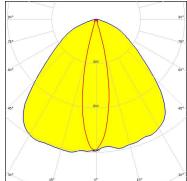


SEOUL SEOUL SEMICONDUCTOR

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 White Light colour Required components:







SEOUL SEMICONDUCT

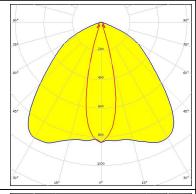
LED Z5M5

FWHM / FWTM 26.0 + 100.0° / 40.0 + 138.0°

Efficiency 85 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White

Required components:

Protective plate, glass



SEOUL SEMICONDUCTOR

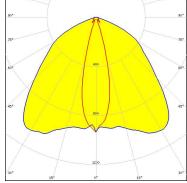
LED

Z5M5

FWHM / FWTM 26.0 + 103.0° / 38.0 + 140.0°

Efficiency 96 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:



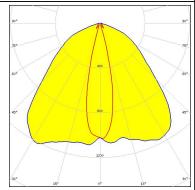
SEOUL SEMICONDUCTOR

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

Required components:



TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD

FWHM / FWTM 22.0 + 100.0° / 32.0 + 142.0°

Efficiency 84 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

Protective plate, glass