

HB-2X2-M

~25° medium beam optimized for CREE XP-L and XM-L

TECHNICAL SPECIFICATIONS:

Dimensions 50.0 mm

Height 8.5 mm

Fastening pin, screw

ROHS compliant yes 10



Component Type Material Colour Finish

LEDil®

MOQ

MPQ

Box weight (kg)

HB-2X2-M Multi-lens PMMA clear

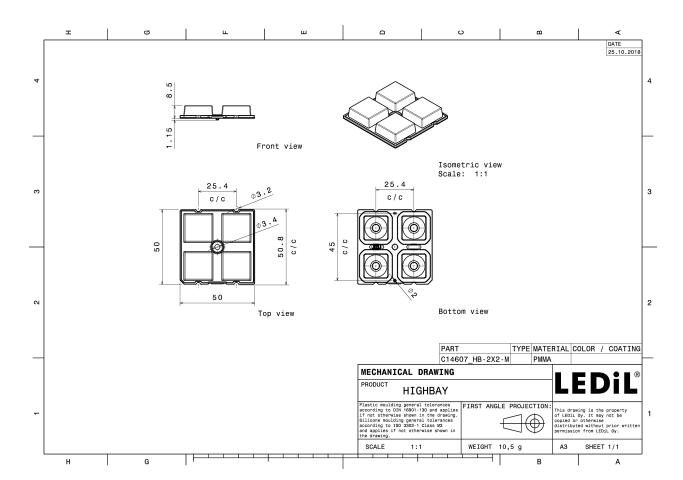
ORDERING INFORMATION:

Component Qty in box

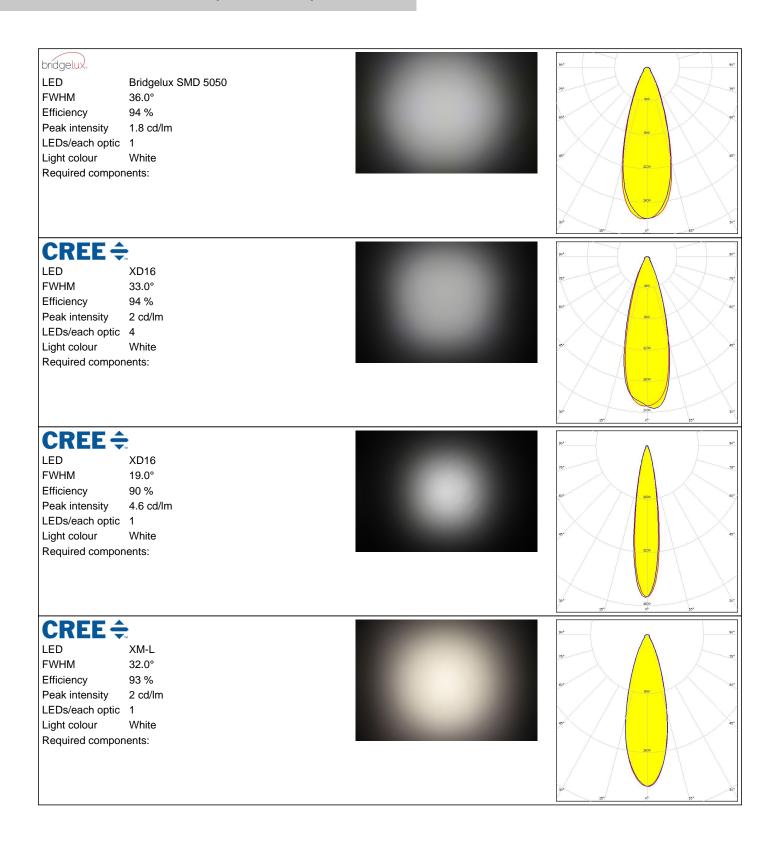
C14607_HB-2X2-M » Box size: 480 x 280 x 300 mm

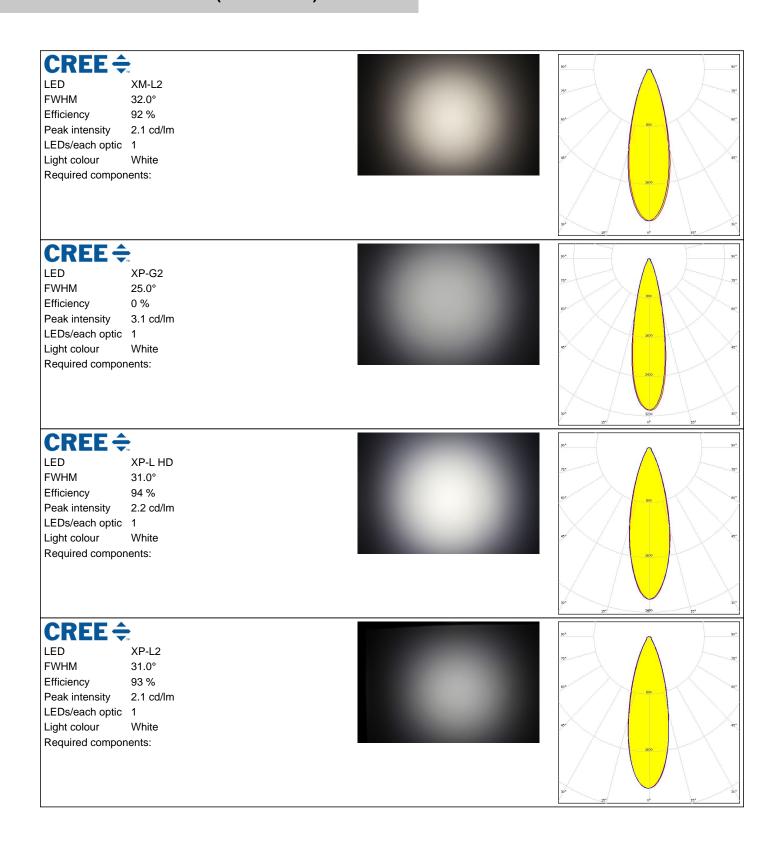
14607 HB-2X2-M 800 160 160 9.2

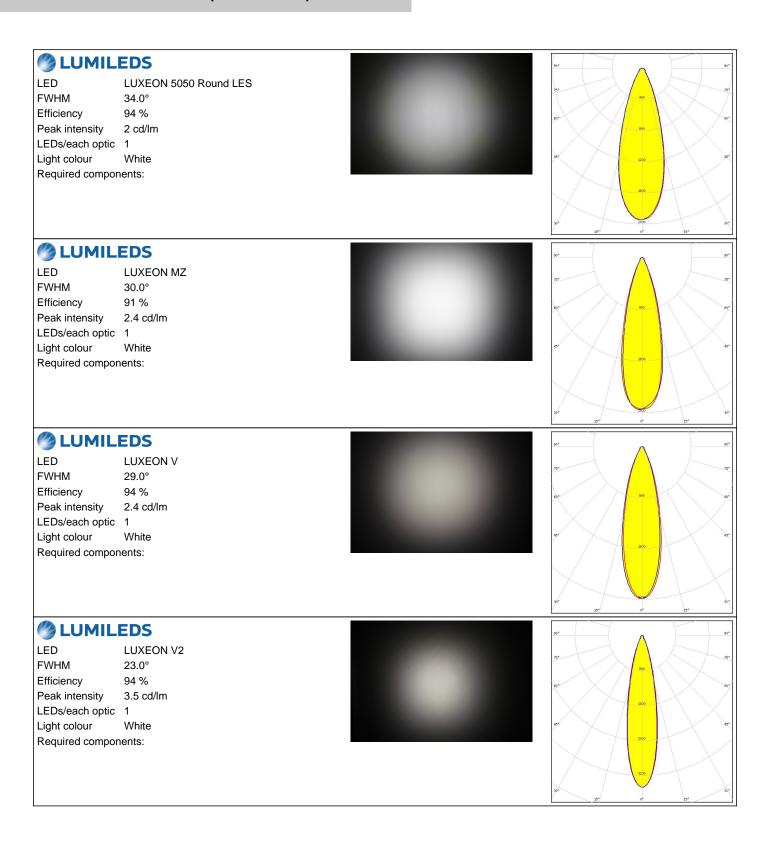




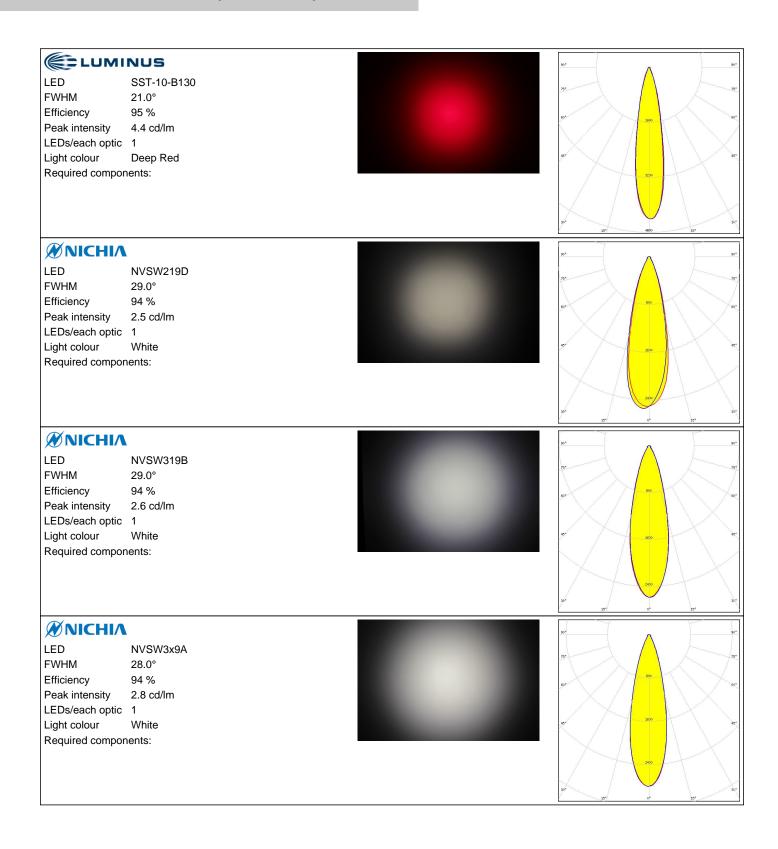


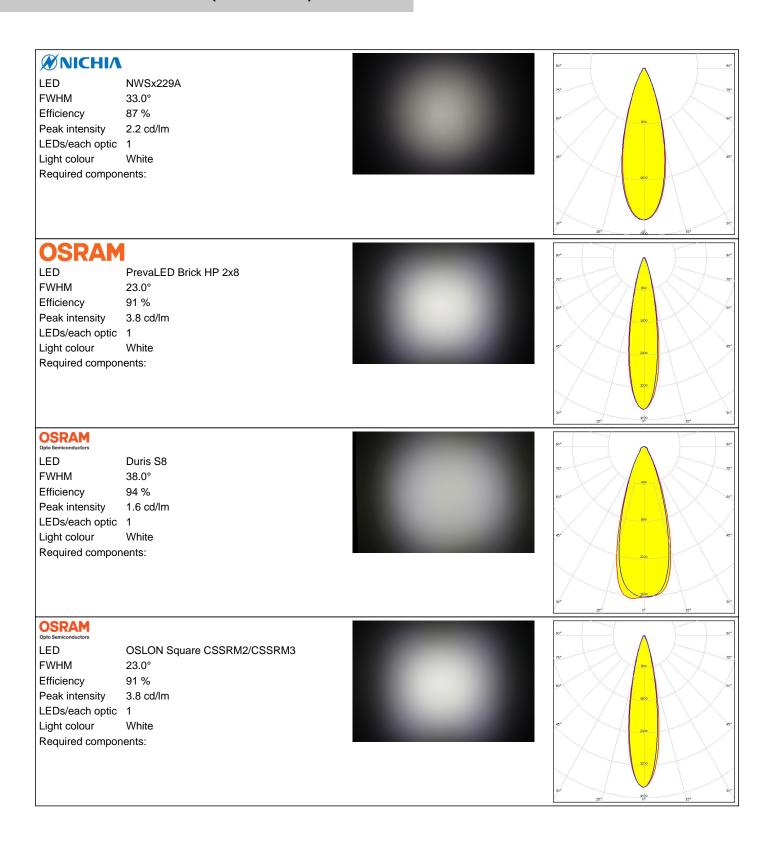












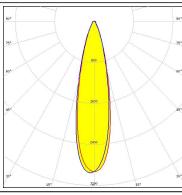
PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4

FWHM 25.0°
Efficiency 92 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



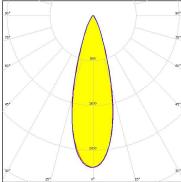


SAMSUNG

LED HILOM RH16 (LH351C)

FWHM 30.0°
Efficiency 94 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



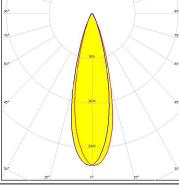


SAMSUNG

LED LH351B FWHM 28.0° Efficiency 85 % Peak intensity 2.7 cd/lm

LEDs/each optic 1
Light colour White
Required components:



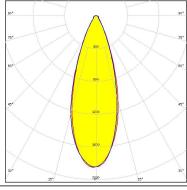


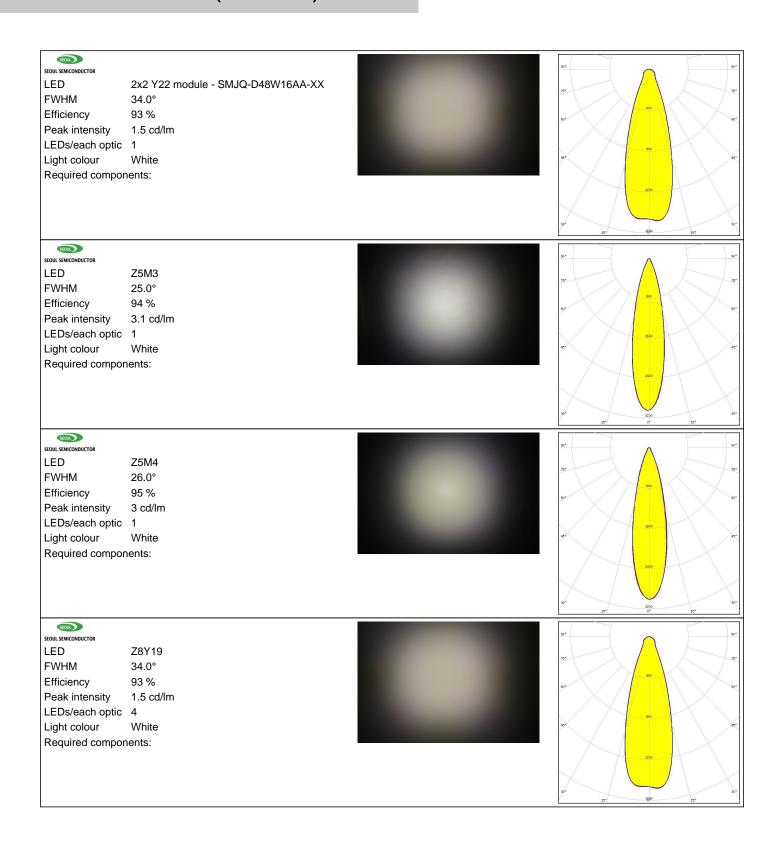
SAMSUNG

LED LH351D FWHM 35.0° Efficiency 91 % Peak intensity 1.9 cd/lm LEDs/each optic 1

Light colour White Required components:





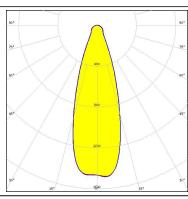


PHOTOMETRIC DATA (MEASURED):



LED Z8Y19 **FWHM** 34.0° Efficiency 93 % Peak intensity 1.5 cd/lm LEDs/each optic 4 Light colour White Required components:





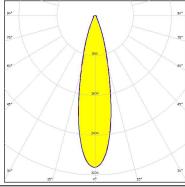
SEOUL SEOUL SEMICONDUCTOR

LED Z8Y22P **FWHM** 25.0°

92 % Efficiency Peak intensity 3.1 cd/lm

LEDs/each optic 1 White Light colour Required components:





TRIDONIC

LED RLE 2x4 2000lm HP EXC2 OTD

FWHM 23.0° Efficiency 94 % Peak intensity 3.4 cd/lm LEDs/each optic 1

Light colour White Required components:

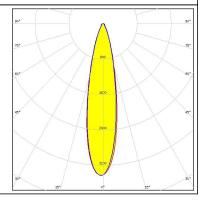
TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD

FWHM 23.0° Efficiency 94 % Peak intensity 3.4 cd/lm LEDs/each optic 1 White Light colour

Required components:



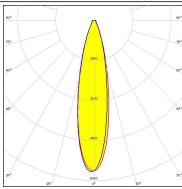


PHOTOMETRIC DATA (MEASURED):

TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD

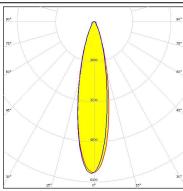
FWHM 24.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD

FWHM 24.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

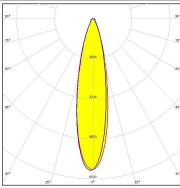


TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD

FWHM 24.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



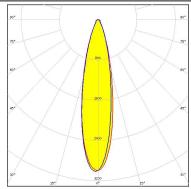


TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD

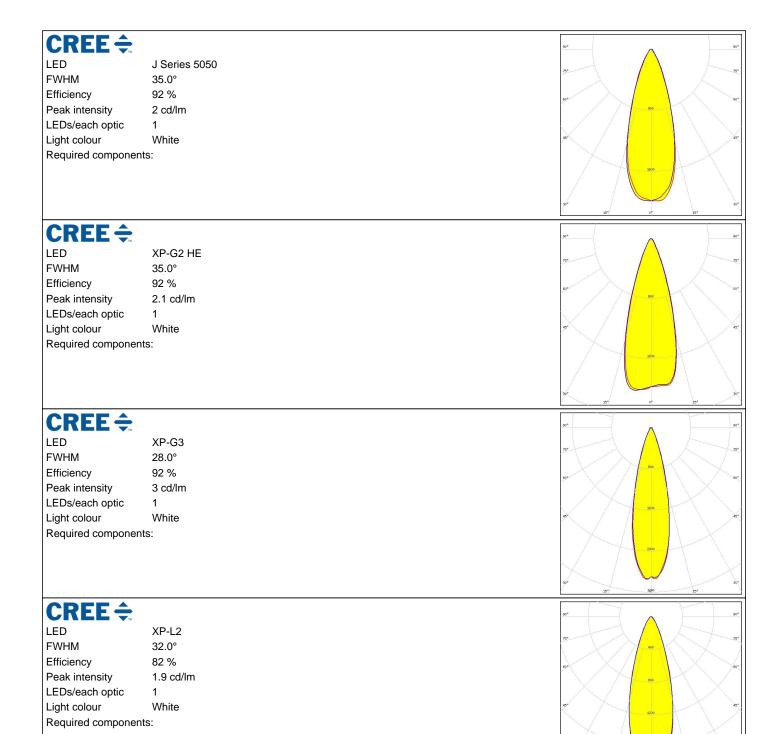
FWHM 24.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:





PHOTOMETRIC DATA (SIMULATED):

Transparent protective cover

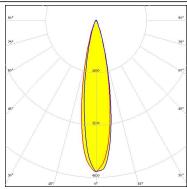


PHOTOMETRIC DATA (SIMULATED):



LED LUXEON 3030 2D (Round LES)

FWHM 21.0° 91 % Efficiency Peak intensity 4.7 cd/lm LEDs/each optic Light colour White

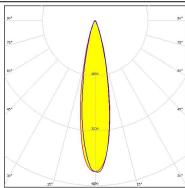


MUMILEDS

Required components:

LED **LUXEON 3535 2D**

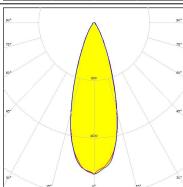
FWHM 22.0° 92 % Efficiency Peak intensity 4.5 cd/lm LEDs/each optic 1 White Light colour Required components:



LUMILEDS

LED LUXEON 5050 Square LES

FWHM 34.0° Efficiency 93 % Peak intensity 2.1 cd/lm LEDs/each optic Light colour White Required components:

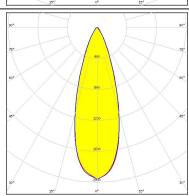


MUMILEDS

LED LUXEON 5050 Square LES

FWHM 34.0° Efficiency 88 % Peak intensity 2 cd/lm LEDs/each optic White Light colour Required components:

Transparent protective cover



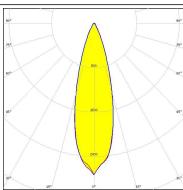
PHOTOMETRIC DATA (SIMULATED):

WNICHIA

LED NV4WB35AM

FWHM 30.0° Efficiency 93 % Peak intensity 2.7 cd/lm LEDs/each optic

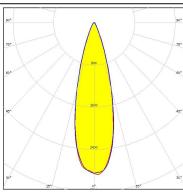
Light colour White Required components:



WNICHIA

LED NVSxx19B/NVSxx19C

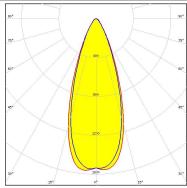
FWHM 28.0° 92 % Efficiency Peak intensity 2.9 cd/lm LEDs/each optic 1 White Light colour Required components:



OSRAM Opto Semiconductors

LED Duris S8 **FWHM** 38.0° Efficiency 89 % Peak intensity 1.6 cd/lm LEDs/each optic Light colour White Required components:

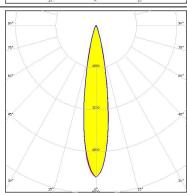
Transparent protective cover



OSRAM Opto Semiconductors

LED OSCONIQ P 3030

FWHM 18.0° Efficiency 94 % 5.8 cd/lm Peak intensity LEDs/each optic White Light colour Required components:



PHOTOMETRIC DATA (SIMULATED):

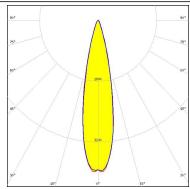
OSRAM

LED

OSCONIQ P 3737 (2W version)

FWHM 22.0° 87 % Efficiency Peak intensity 4 cd/lm LEDs/each optic Light colour White Required components:

Transparent protective cover

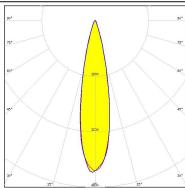


OSRAM Opto Semiconductors

LED

OSCONIQ P 3737 (2W version)

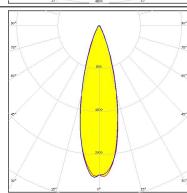
FWHM 22.0° 92 % Efficiency Peak intensity 4.4 cd/lm LEDs/each optic 1 White Light colour Required components:



OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (3W version)

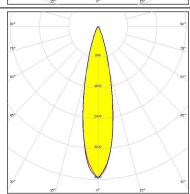
FWHM 29.0° Efficiency 93 % Peak intensity 2.8 cd/lm LEDs/each optic Light colour White Required components:



OSRAM Opto Semiconductors

LED OSCONIQ P 3737 Flat

FWHM 24.0° Efficiency 93 % 4 cd/lm Peak intensity LEDs/each optic White Light colour Required components:

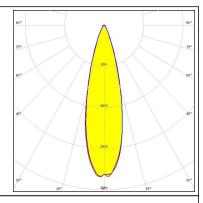


PHOTOMETRIC DATA (SIMULATED):

PHILIPS

LED Fortimo FastFlex LED 2x8 DAX G4

FWHM 28.0°
Efficiency 92 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

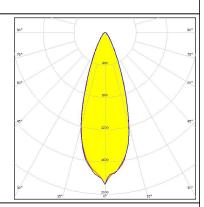


SAMSUNG

LED LH231B
FWHM 24.0°
Efficiency 92 %
Peak intensity 3.7 cd/lm
LEDs/each optic 4
Light colour White
Required components:

SAMSUNG

LED LH351D
FWHM 36.0°
Efficiency 92 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

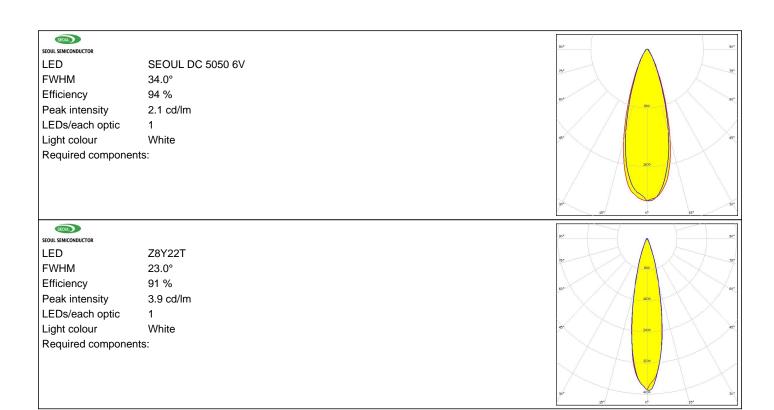


SAMSUNG

LED LH508A Plus
FWHM 32.0°
Efficiency 93 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):





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:

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