

#### 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

Colour clear

Box size 480 x 280 x 300 mm

Box weight 9.2 kg

Quantity in Box 800 pcs

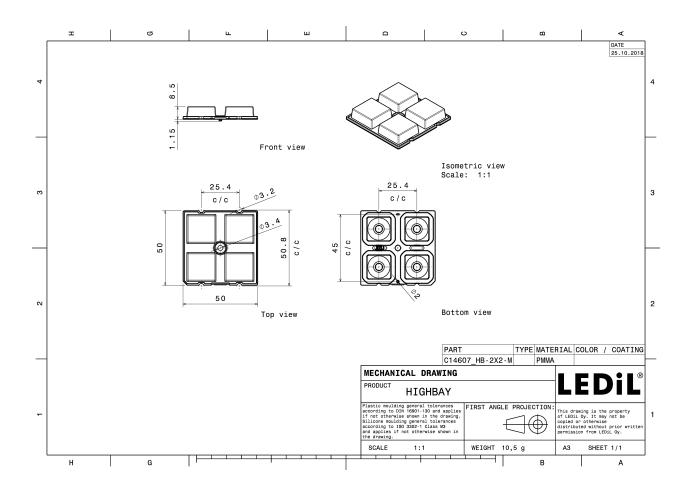
ROHS compliant yes 1

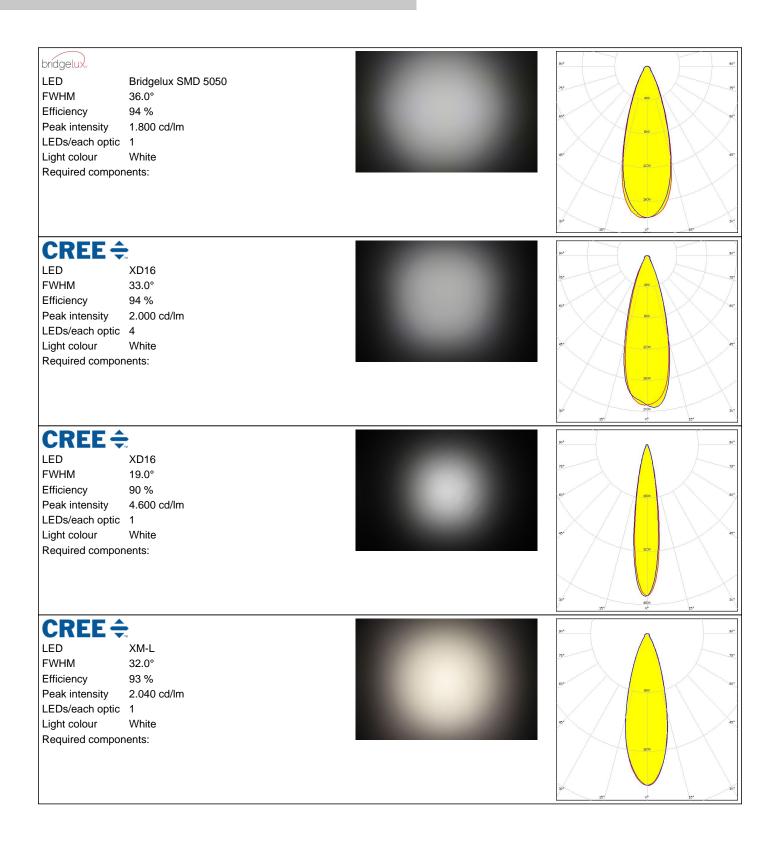


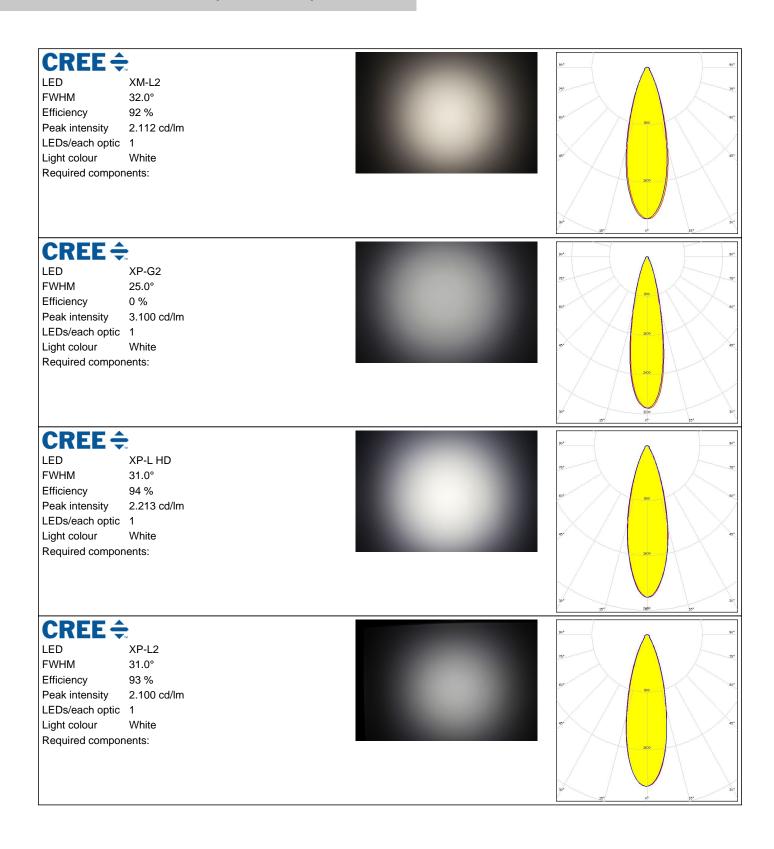
#### **MATERIAL SPECIFICATIONS:**

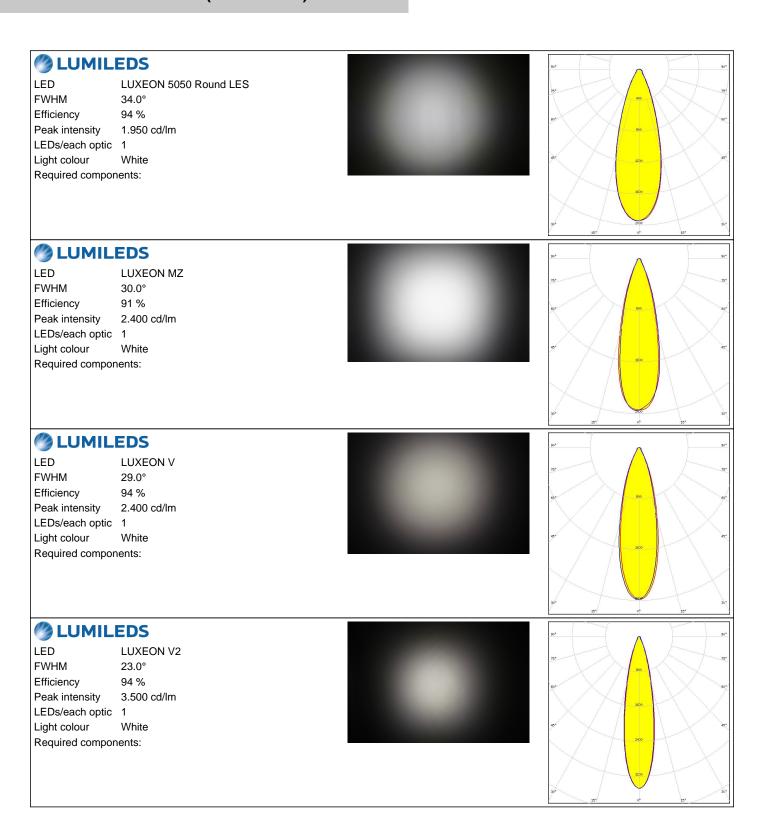
ComponentTypeMaterialColourHB-2X2-MMulti-lensPMMAclear

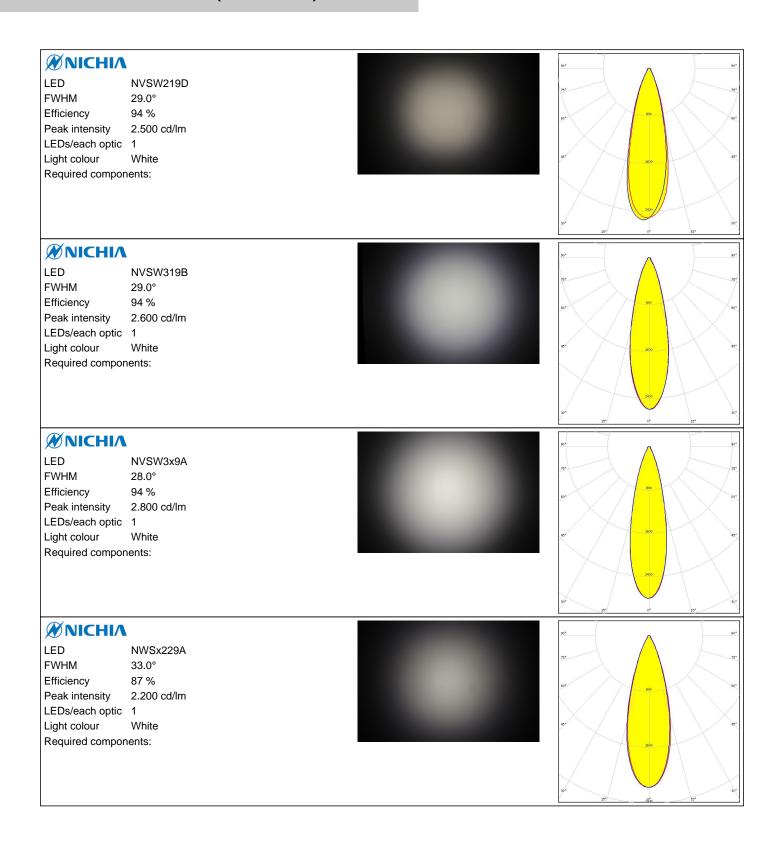












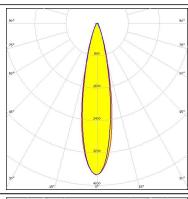
## PHOTOMETRIC DATA (MEASURED):

LED PrevaLED Brick HP 2x8

**FWHM** 23.0° Efficiency 91 % Peak intensity 3.750 cd/lm

LEDs/each optic 1 Light colour White Required components:



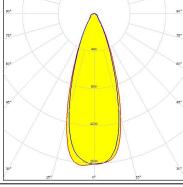


## OSRAM Opto Semiconductors

LED Duris S8 **FWHM** 38.0° 94 % Efficiency Peak intensity 1.600 cd/lm

LEDs/each optic 1 White Light colour Required components:





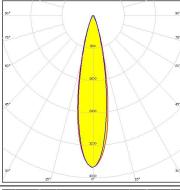
## OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3

**FWHM** 23.0° Efficiency 91 % Peak intensity 3.750 cd/lm

LEDs/each optic 1 Light colour White Required components:



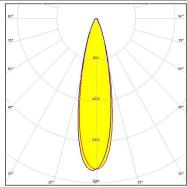


LED Fortimo FastFlex LED 2x8 DA G4

**FWHM** 25.0° Efficiency 92 % Peak intensity 3.000 cd/lm

LEDs/each optic 1 White Light colour Required components:





#### PHOTOMETRIC DATA (MEASURED):

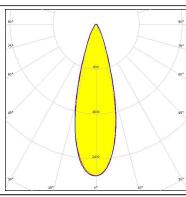
## **SAMSUNG**

LED HILOM RH16 (LH351C)

FWHM 30.0°
Efficiency 94 %
Peak intensity 2.700 cd/lm

LEDs/each optic 1 Light colour White Required components:





#### SAMSUNG

 LED
 LH351B

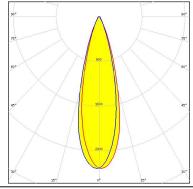
 FWHM
 28.0°

 Efficiency
 85 %

 Peak intensity
 2.720 cd/lm

LEDs/each optic 1
Light colour White
Required components:



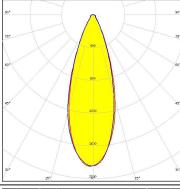


## SAMSUNG

LED LH351D FWHM 35.0° Efficiency 91 % Peak intensity 1.900 cd/lm

LEDs/each optic 1
Light colour White
Required components:



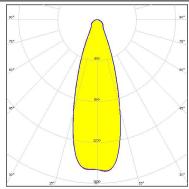


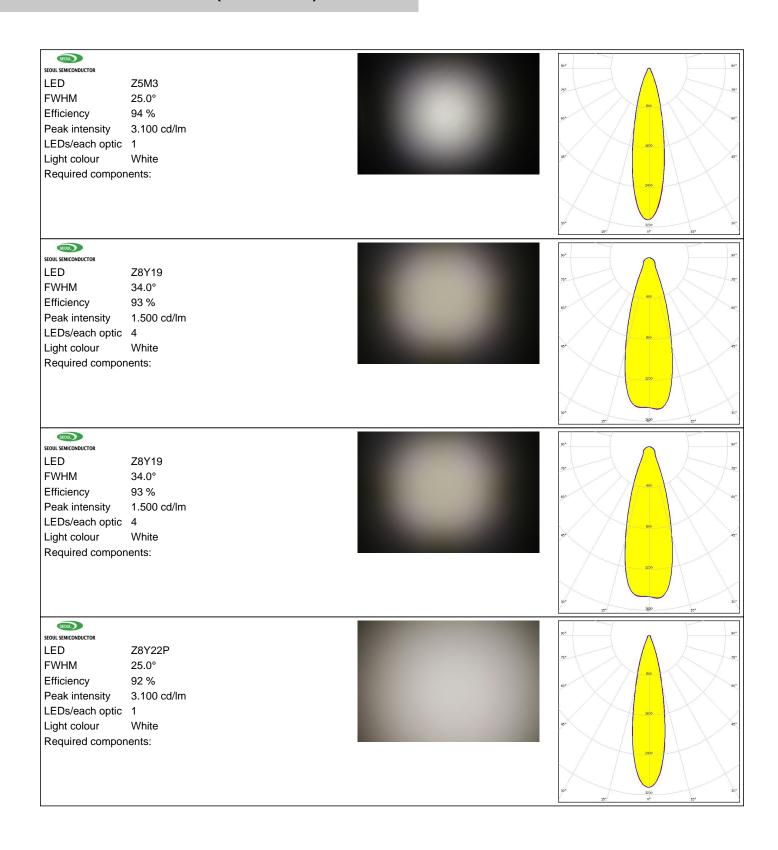


LED 2x2 Y22 module - SMJQ-D48W16AA-XX

FWHM 34.0° Efficiency 93 % Peak intensity 1.500 cd/lm







## PHOTOMETRIC DATA (MEASURED):

## **TRIDONIC**

LED RLE 2x4 2000lm HP EXC2 OTD

FWHM 23.0° Efficiency 94 % Peak intensity 3.400 cd/lm

LEDs/each optic 1 Light colour White Required components:

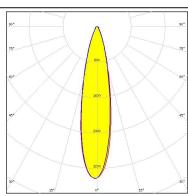
## **TRIDONIC**

LED RLE 2x8 4000lm HP EXC2 OTD

FWHM 23.0° Efficiency 94 % Peak intensity 3.400 cd/lm

LEDs/each optic 1 Light colour White Required components:



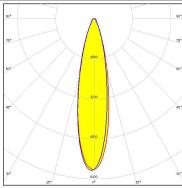


#### TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD

FWHM 24.0° Efficiency 94 % Peak intensity 3.000 cd/lm

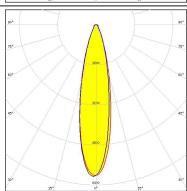
LEDs/each optic 1
Light colour White
Required components:



## **TRIDONIC**

LED RLE G1 49x133mm 2000lm xxx EXC OTD

FWHM 24.0° Efficiency 94 % Peak intensity 3.000 cd/lm





## PHOTOMETRIC DATA (MEASURED):

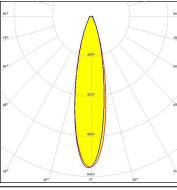
## **TRIDONIC**

LED RLE G1 49x223mm 4000lm xxx EXC OTD

FWHM 24.0° Efficiency 94 % Peak intensity 3.000 cd/lm

LEDs/each optic 1
Light colour White
Required components:



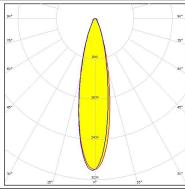


## **TRIDONIC**

LED RLE G1 49x245mm 4000lm xxx EXC OTD

FWHM 24.0° Efficiency 94 % Peak intensity 3.000 cd/lm



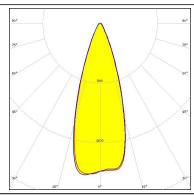


## PHOTOMETRIC DATA (SIMULATED):

## CREE 💠

LED XP-G2 HE
FWHM 35.0°
Efficiency 92 %
Peak intensity 2.063 cd/lm

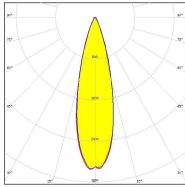
LEDs/each optic 1 Light colour White Required components:



## CREE ÷

LED XP-G3
FWHM 28.0°
Efficiency 92 %
Peak intensity 3.000 cd/lm

LEDs/each optic 1 Light colour White Required components:

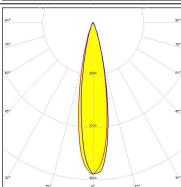


## **MUMILEDS**

LED LUXEON 3030 2D (Round LES)

FWHM 21.0° Efficiency 91 % Peak intensity 4.700 cd/lm

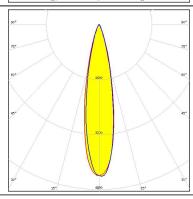
LEDs/each optic 1
Light colour White
Required components:



## **DESCRIPTION** LUMILEDS

LED LUXEON 3535 2D

FWHM 22.0° Efficiency 92 % Peak intensity 4.500 cd/lm



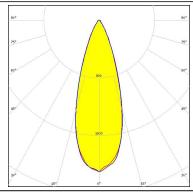
## PHOTOMETRIC DATA (SIMULATED):



LED LUXEON 5050 Square LES

**FWHM** 34.0° 93 % Efficiency Peak intensity 2.109 cd/lm

LEDs/each optic 1 Light colour White Required components:

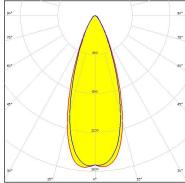


## OSRAM Opto Semiconductors

LED Duris S8 **FWHM** 38.0° 89 % Efficiency Peak intensity 1.600 cd/lm

LEDs/each optic 1 White Light colour Required components:

Transparent protective cover

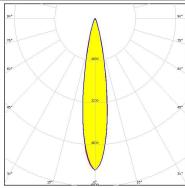


## OSRAM Opto Semiconductors

LED OSCONIQ P 3030

**FWHM** 18.0° Efficiency 94 % Peak intensity 5.783 cd/lm

LEDs/each optic 1 Light colour White Required components:

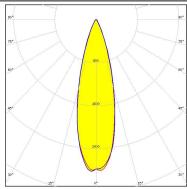


## OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (3W version)

**FWHM** 29.0° Efficiency 93 % 2.840 cd/lm Peak intensity

LEDs/each optic 1 White Light colour Required components:



## PHOTOMETRIC DATA (SIMULATED):

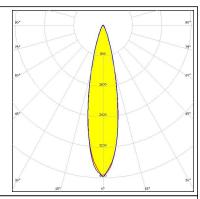
#### **OSRAM**

Opto Semiconductors
LED

OSCONIQ P 3737 Flat

FWHM 24.0° Efficiency 93 % Peak intensity 3.976 cd/lm

LEDs/each optic 1
Light colour White
Required components:

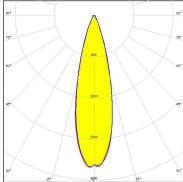


#### PHILIPS

LED Fortimo FastFlex LED 2x8 DAX G4

FWHM 28.0° Efficiency 92 % Peak intensity 3.000 cd/lm

LEDs/each optic 1 Light colour White Required components:



## SAMSUNG

 LED
 LH231B

 FWHM
 24.0°

 Efficiency
 92 %

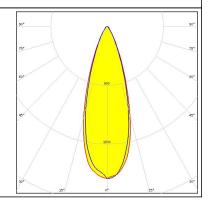
 Peak intensity
 3.683 cd/lm

LEDs/each optic 4
Light colour White
Required components:



LED SEOUL DC 5050 6V

FWHM 34.0° Efficiency 94 % Peak intensity 2.100 cd/lm





## PHOTOMETRIC DATA (SIMULATED):

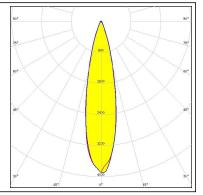


 LED
 Z8Y22T

 FWHM
 23.0°

 Efficiency
 91 %

 Peak intensity
 3.920 cd/lm





#### **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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