

**HB-2X2-W** 

~50° wide beam

### **TECHNICAL SPECIFICATIONS:**

Dimensions 50.0 mm Height 8.5 mm

Fastening glue, pin, screw

Colour clear

Box size 480 x 280 x 300 mm

Box weight 9.1 kg

Quantity in Box 800 pcs

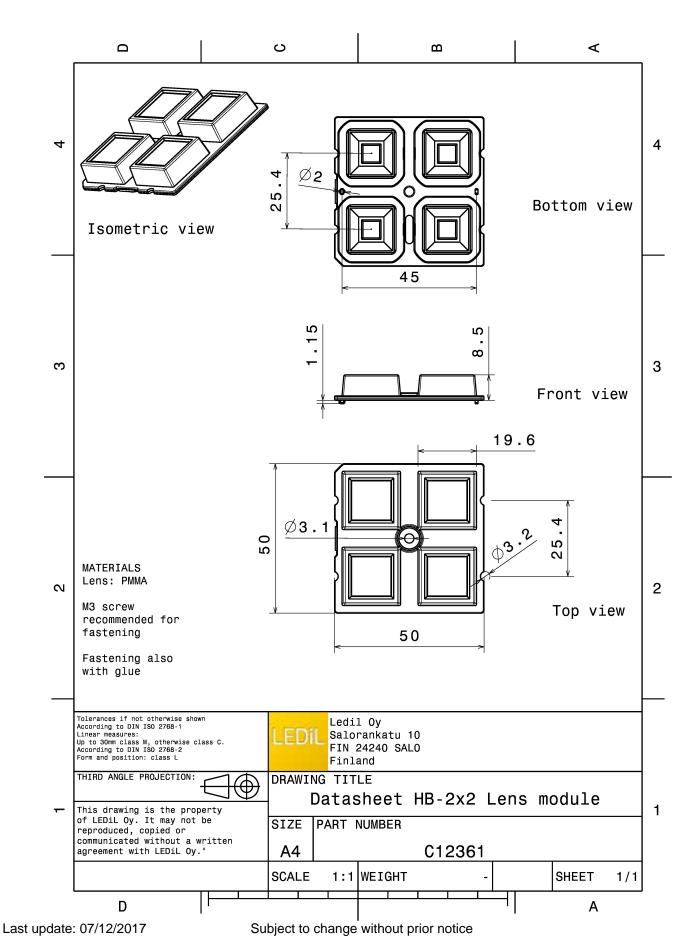
ROHS compliant yes 1



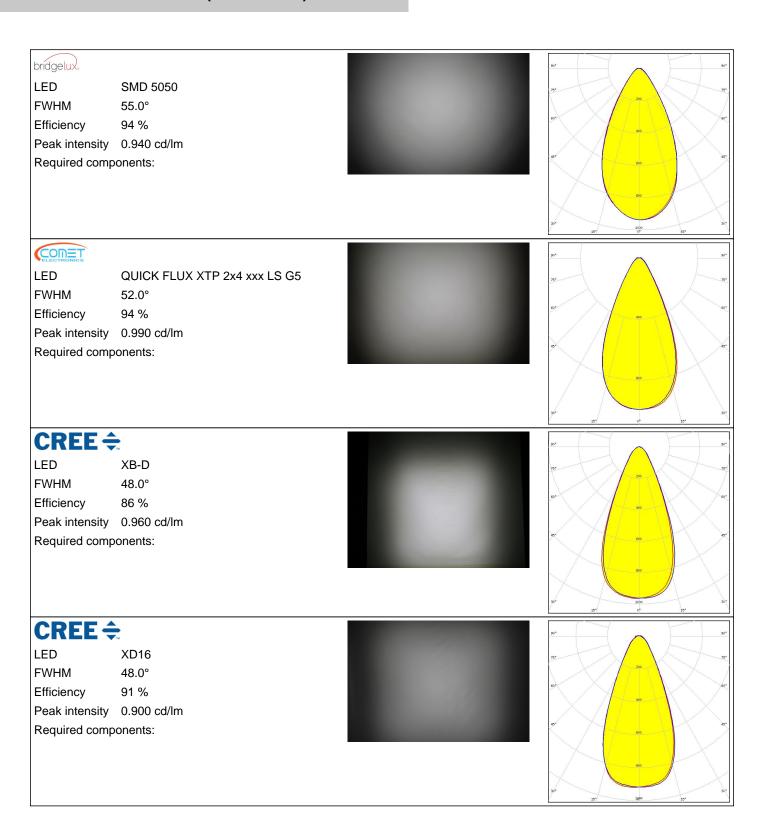
#### **MATERIAL SPECIFICATIONS:**

ComponentTypeMaterialColourHB-2X2-WLens arrayPMMAclear





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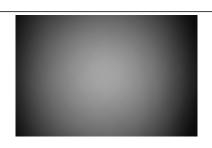


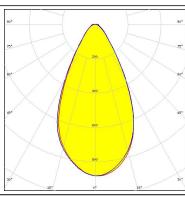
### PHOTOMETRIC DATA (MEASURED):

## CREE \$

LED XD16 2x2 cluster

FWHM 54.0°
Efficiency 91 %
Peak intensity 0.880 cd/lm
Required components:





## CREE \$

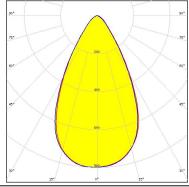
LED XHP35 HD

FWHM 57.0° Efficiency 85 %

Peak intensity 0.800 cd/lm

Required components:





## CREE \$

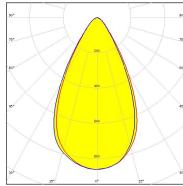
LED XM-L

FWHM 57.0° Efficiency 89 %

Peak intensity 0.860 cd/lm

Required components:



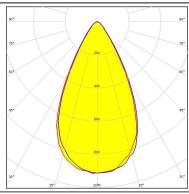


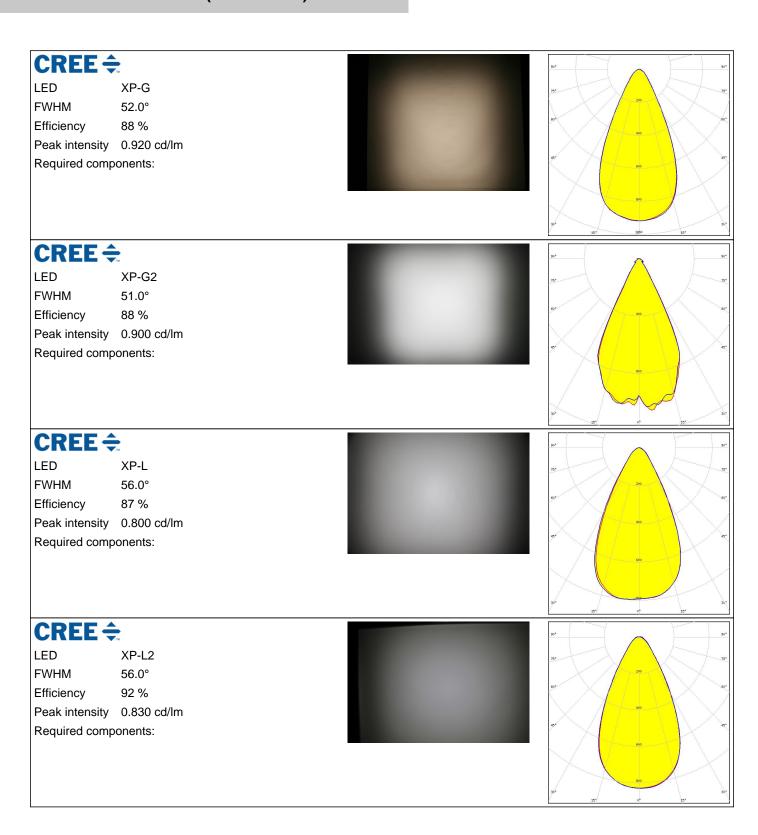
## CREE 💠

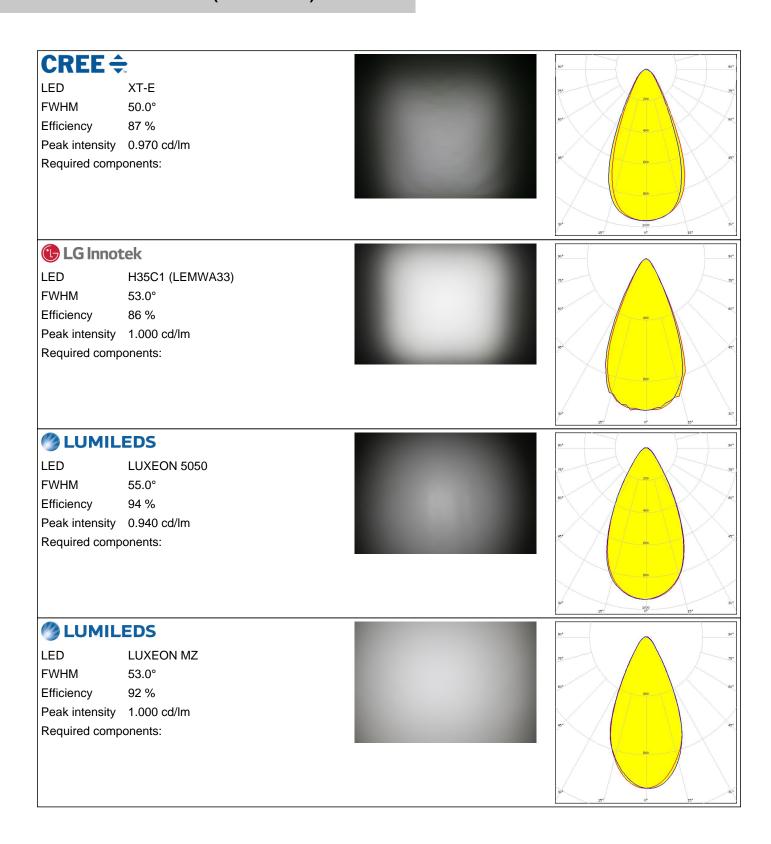
LED XM-L2

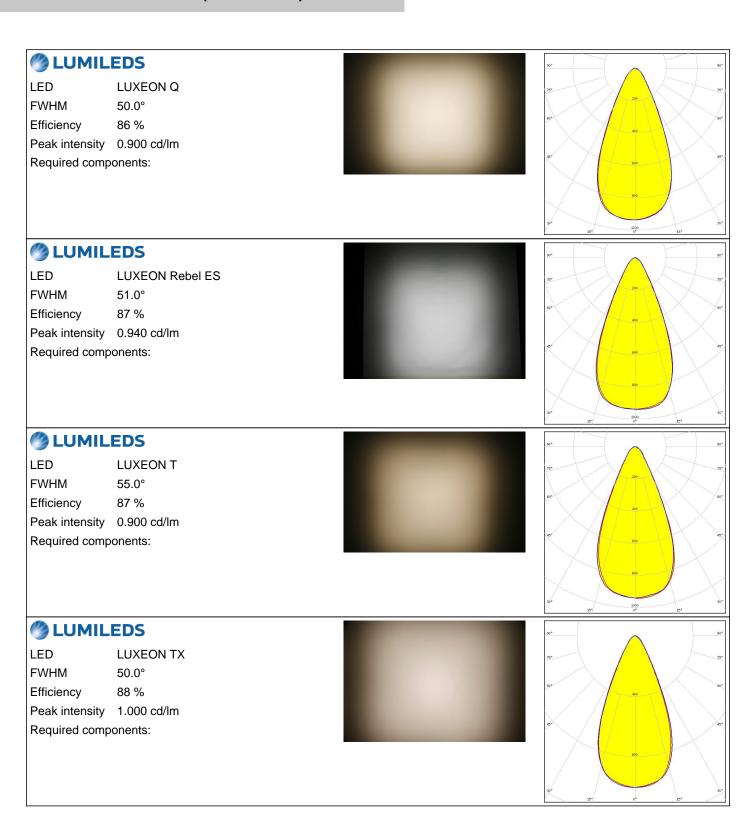
FWHM 56.0° Efficiency 87 %

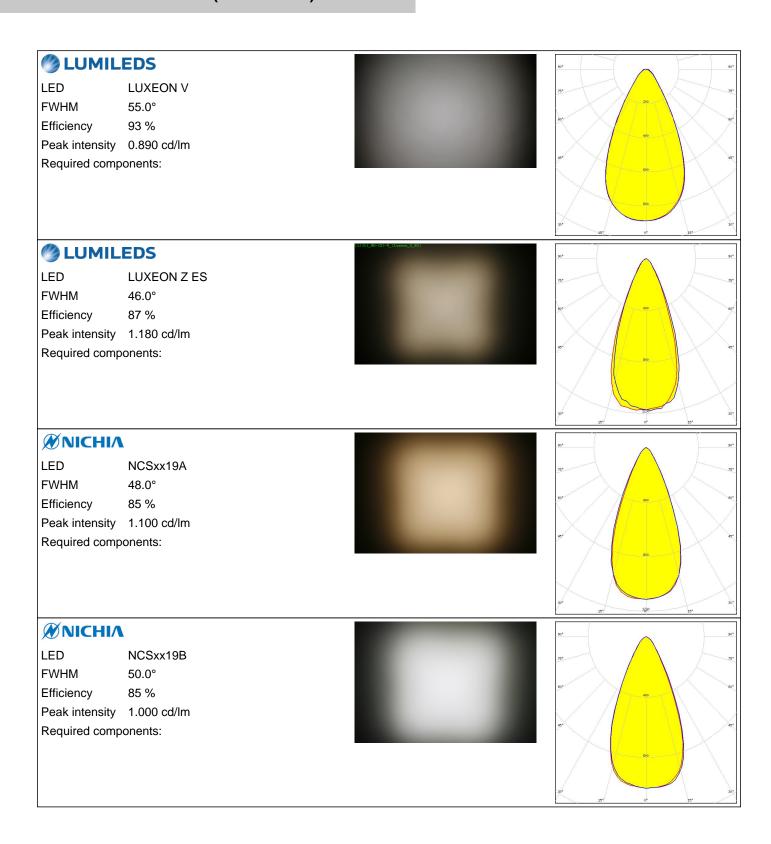
Peak intensity 0.900 cd/lm

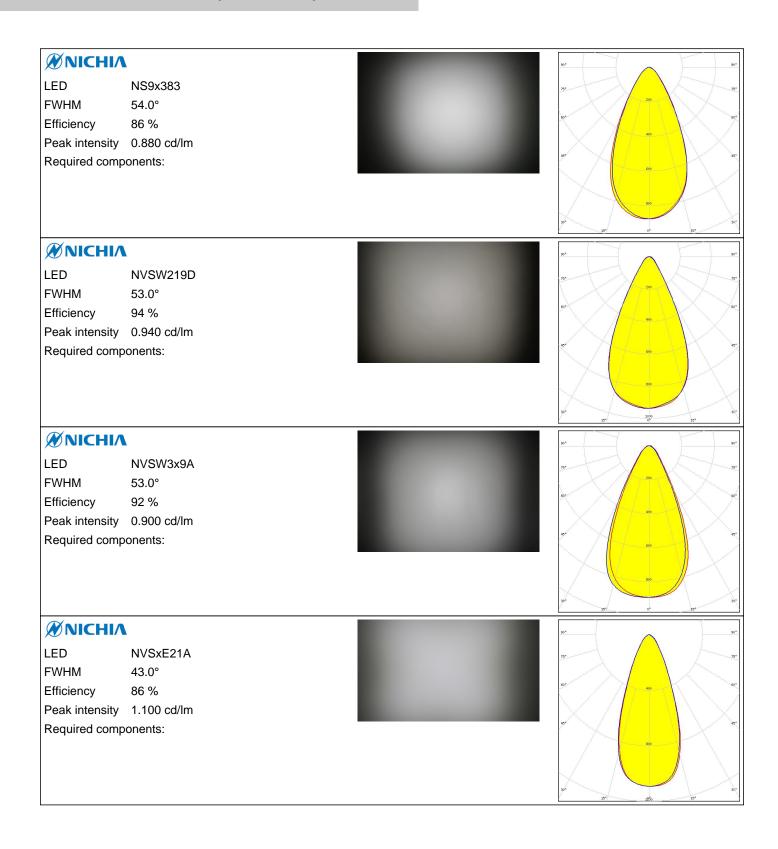












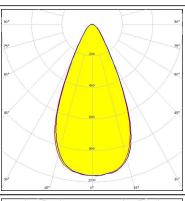
### PHOTOMETRIC DATA (MEASURED):

### **WNICHIA**

LED NVSxx19B/NVSxx19C

FWHM 51.0°
Efficiency 85 %
Peak intensity 0.960 cd/lm
Required components:



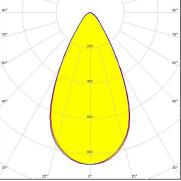


## **WNICHIA**

LED NWSx229A

FWHM 57.0° Efficiency 86 %

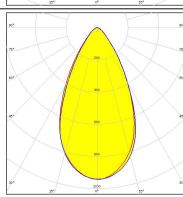
Peak intensity 0.860 cd/lm Required components:



### OPT@GAN

LED OLP-5065F6L-06A

FWHM 56.0°
Efficiency 88 %
Peak intensity 0.940 cd/lm
Required components:

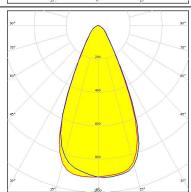


#### OSRAM Opto Semiconductors

LED

Oslon Square PC

FWHM 54.0°
Efficiency 87 %
Peak intensity 0.900 cd/lm
Required components:



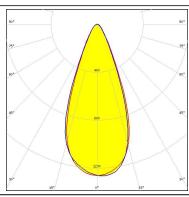
### PHOTOMETRIC DATA (MEASURED):

#### OSRAM Opto Semiconductors

LED Oslon SSL 80

FWHM 43.0°
Efficiency 89 %
Peak intensity 1.260 cd/lm
Required components:



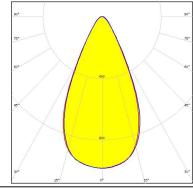


#### PHILIPS

LED Fortimo FastFlex LED board 2x8 DA G4

FWHM 52.0°
Efficiency 94 %
Peak intensity 0.990 cd/lm
Required components:



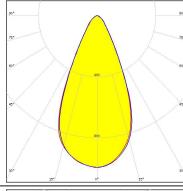


## SAMSUNG

LED LH351A(3535)

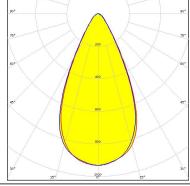
FWHM 49.0°
Efficiency 89 %
Peak intensity 1.000 cd/lm
Required components:





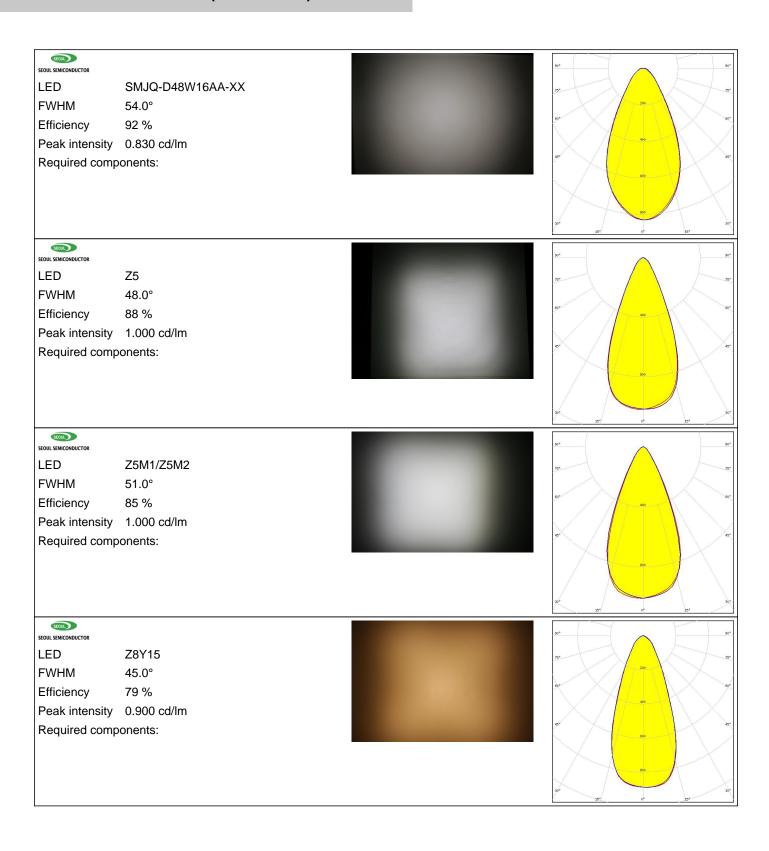
## SAMSUNG

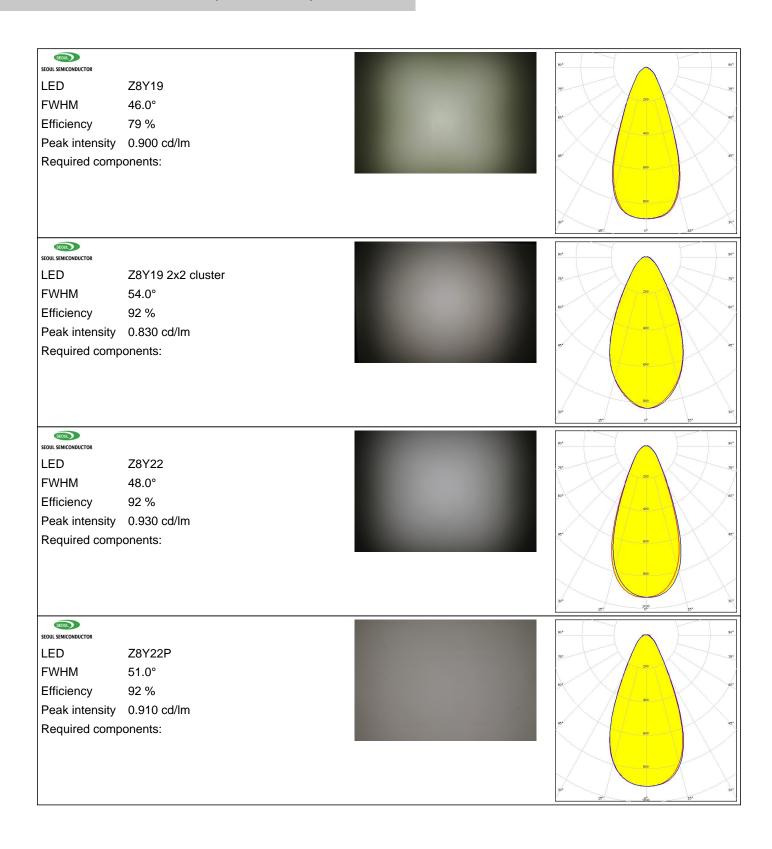
LED LH351B FWHM 55.0° Efficiency 86 % Peak intensity 0.930 cd/lm



### PHOTOMETRIC DATA (MEASURED):

## **SAMSUNG** LED LH351C **FWHM** 53.0° Efficiency 93 % Peak intensity 1.000 cd/lm Required components: SAMSUNG LED LH351D **FWHM** 56.0° Efficiency 91 % Peak intensity 0.850 cd/lm Required components: SAMSUNG LED LH351Z **FWHM** 50.0° Efficiency 87 % Peak intensity 1.000 cd/lm Required components: SAMSUNG LED LH508A **FWHM** 56.0° Efficiency 93 % Peak intensity 0.900 cd/lm Required components:





### PHOTOMETRIC DATA (MEASURED):

#### **TOSHIBA**

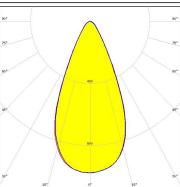
Leading Innovatio

LED TL1L4
FWHM 48.0°
Efficiency 81 %

Peak intensity 0.980 cd/lm

Required components:

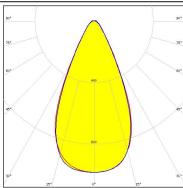




## **TRIDONIC**

LED RLE G1 49x121mm 2000lm xxx EXC OTD

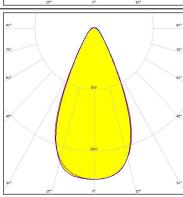
FWHM 52.0°
Efficiency 94 %
Peak intensity 0.980 cd/lm
Required components:



## **TRIDONIC**

LED RLE G1 49x133mm 2000lm xxx EXC OTD

FWHM 52.0°
Efficiency 94 %
Peak intensity 0.980 cd/lm
Required components:

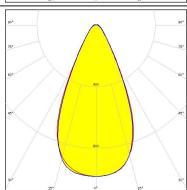


## **TRIDONIC**

LED RLE G1 49x223mm 4000lm xxx EXC OTD

FWHM 52.0°
Efficiency 94 %
Peak intensity 0.980 cd/lm
Required components:





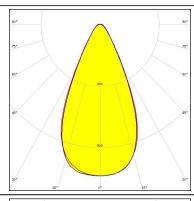
## PHOTOMETRIC DATA (MEASURED):

## **TRIDONIC**

LED RLE G1 49x245mm 4000lm xxx EXC OTD

FWHM 52.0°
Efficiency 94 %
Peak intensity 0.980 cd/lm
Required components:



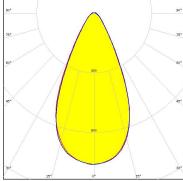


## **TRIDONIC**

LED RLE G2 HP 2x8 4000lm

FWHM 51.0°
Efficiency 94 %
Peak intensity 1.000 cd/lm
Required components:





### PHOTOMETRIC DATA (SIMULATED):

CREE \$

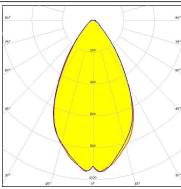
LED MHB-A/B

FWHM 58.0°

Efficiency 94 %

Peak intensity 0.960 cd/lm

Required components:



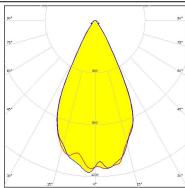
CREE \$

LED XHP35 HI

FWHM 52.0°

Efficiency 93 % Peak intensity 1.200 cd/lm

Required components:



CREE \$

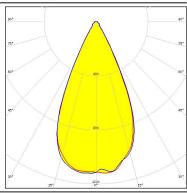
LED XP-E

FWHM 50.0°

Efficiency 94 %

Peak intensity 1.200 cd/lm

Required components:

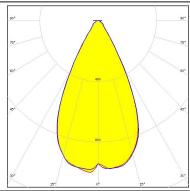


CREE 🕏

LED XP-G3

FWHM 54.0° Efficiency 94 %

Peak intensity 1.000 cd/lm



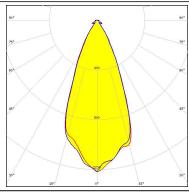
### PHOTOMETRIC DATA (SIMULATED):

## CREE 💠

LED XQ-E HI FWHM 42.0° Efficiency 93 %

Peak intensity 1.370 cd/lm

Required components:

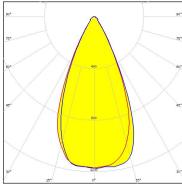


### **MUMILEDS**

LED LUXEON 3030 2D (Round LES)

FWHM 49.0° Efficiency 94 % Peak intensity 1.200 cd/lm

Required components:

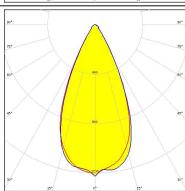


## **MUMILEDS**

LED LUXEON 3535L

FWHM 49.0° Efficiency 94 % Peak intensity 1.200 cd/lm

Required components:



## **DESCRIPTION** LUMILEDS

LED LUXEON A FWHM 52.0°

Efficiency %
Peak intensity cd/lm

### PHOTOMETRIC DATA (SIMULATED):

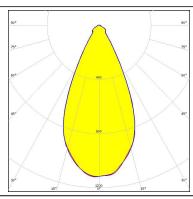
### **MUMILEDS**

LED LUXEON C

FWHM 50.0° Efficiency 94 %

Peak intensity 1.100 cd/lm

Required components:



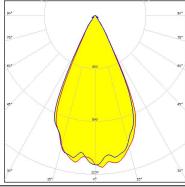
### **MUMILEDS**

LED LUXEON H50-2

FWHM 52.0° Efficiency 91 %

Peak intensity 4.700 cd/lm

Required components:



## **MUMILEDS**

LED LUXEON Rebel

FWHM 52.0°
Efficiency %
Peak intensity cd/lm
Required components:

## **WNICHIA**

LED NVSxx19A
FWHM 50.0°
Efficiency %
Peak intensity cd/Im
Required components:

### PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors

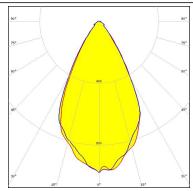
LED Duris S8

FWHM 56.0°

Efficiency 86 %

Peak intensity 1.000 cd/lm

Required components:



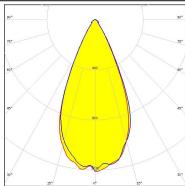
OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (2W version)

FWHM 48.0° Efficiency 93 %

Peak intensity 1.200 cd/lm

Required components:



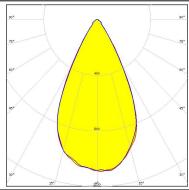
OSRAM Opto Semiconductors

Opto Semiconductors

LED OSCONIQ P 3737 (3W version)

FWHM 54.0° Efficiency 94 % Peak intensity 1.100 cd/lm

Required components:

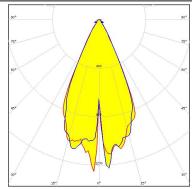


OSRAM Opto Semiconductors

LED

Oslon Square Gen3

FWHM 50.0° Efficiency 93 % Peak intensity 1.300 cd/lm



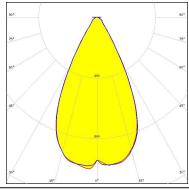
## PHOTOMETRIC DATA (SIMULATED):

**PHILIPS** 

LED Fortimo FastFlex LED board 2x8 DAX G4

FWHM 54.0° Efficiency 94 % Peak intensity 1.000 cd/lm

Required components:

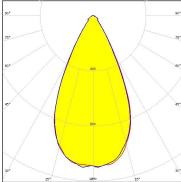


SEOUL SEMICONDUCTOR

LED Acrich MJT 4040

FWHM 52.0°
Efficiency 94 %
Peak intensity 1.100 cd/lm

Required components:



SEOUL SEMICONDUCTOR

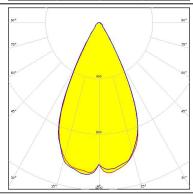
LED Z5M1/Z5M2

1.100 cd/lm

FWHM 52.0° Efficiency 94 %

Required components:

Peak intensity





#### **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.

#### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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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#### **LEDIL Oy**

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# Local sales and technical support

www.ledil.com/ where\_to\_buy

#### **Shipping locations**

Salo, Finland Hong Kong, China

#### **Distribution Partners**

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