

#### HB-2X2-WW

 $\sim\!65^\circ$  wide 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 1



Component Type Material Colour Finish

HB-2X2-WW Multi-lens PMMA clear

#### **ORDERING INFORMATION:**

Component

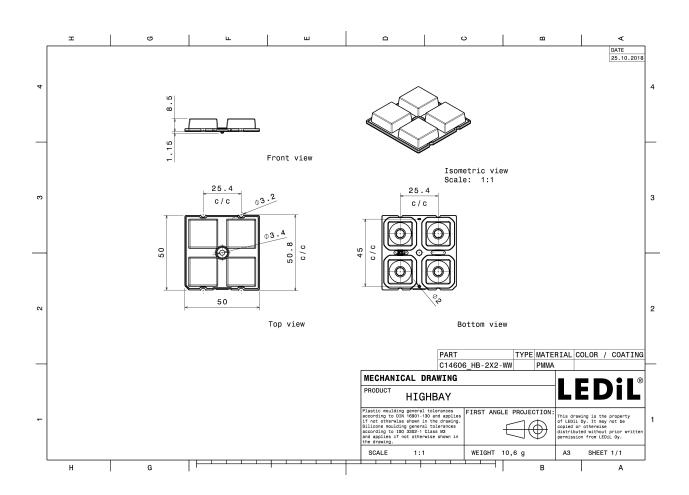
C14606\_HB-2X2-WW

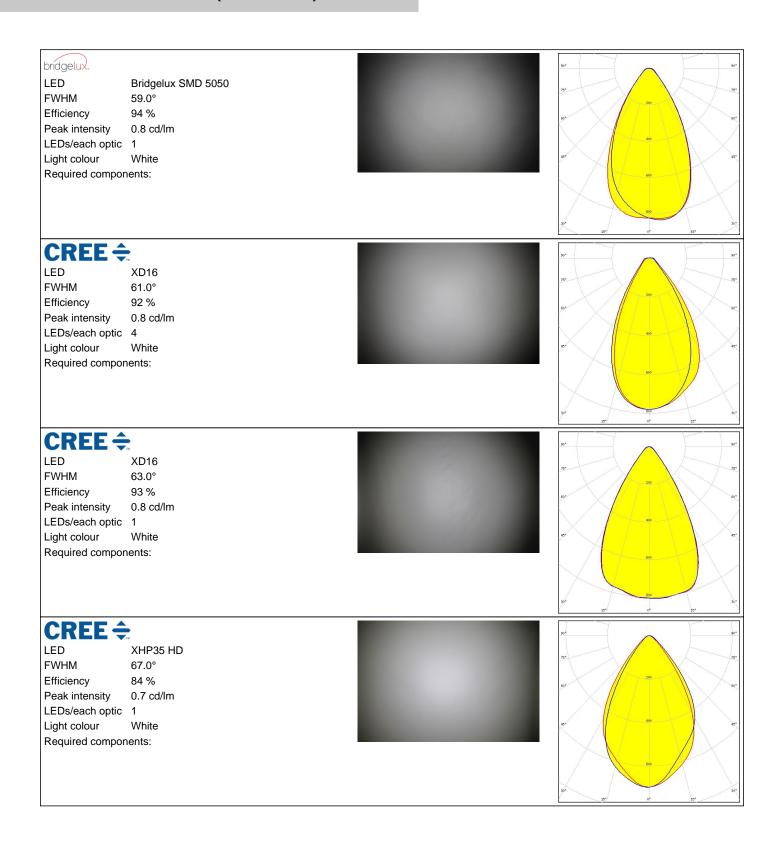
» Box size: 480 x 280 x 300 mm

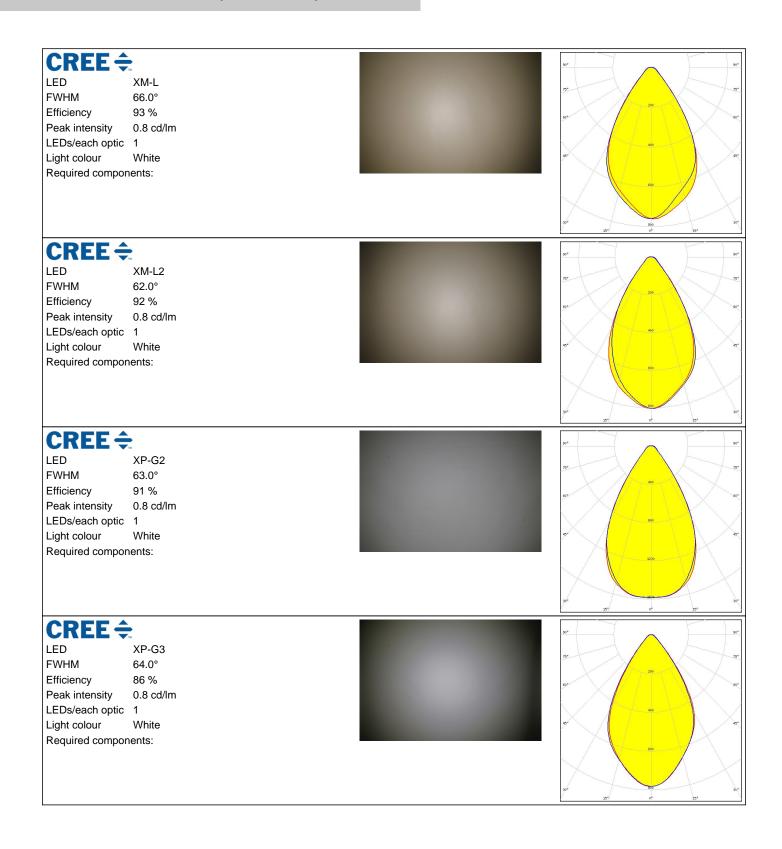
**Qty in box MOQ MPQ Box weight (kg)** 800 160 160 9.2

LEDil®

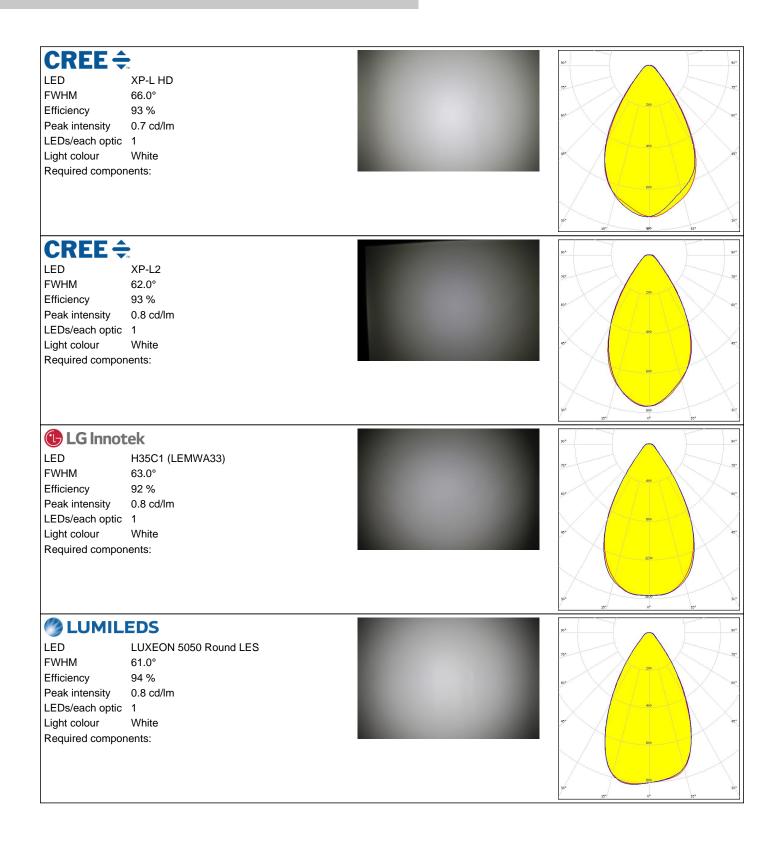




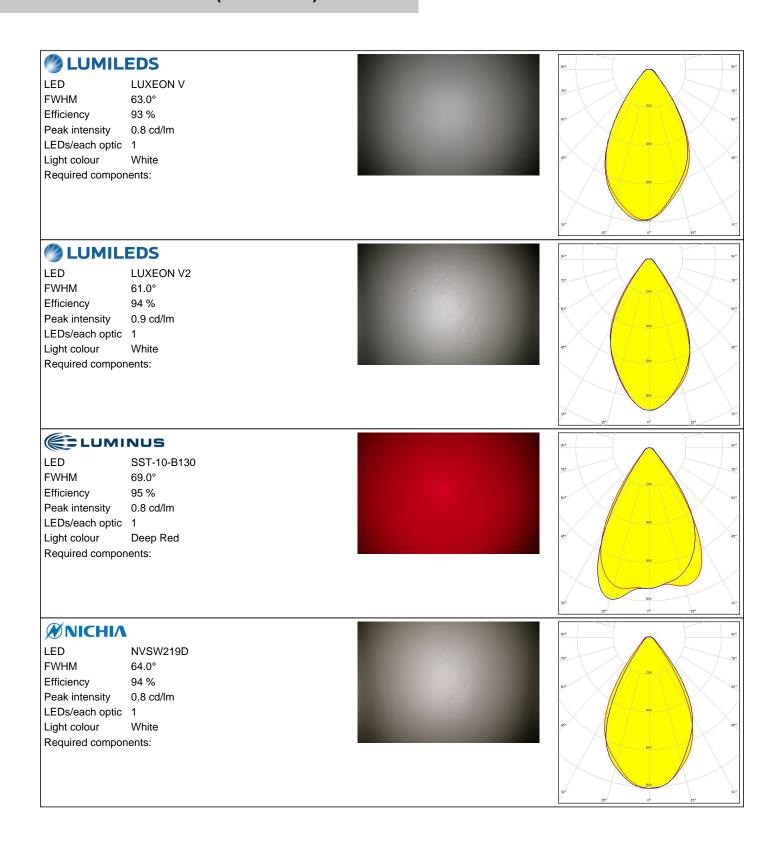


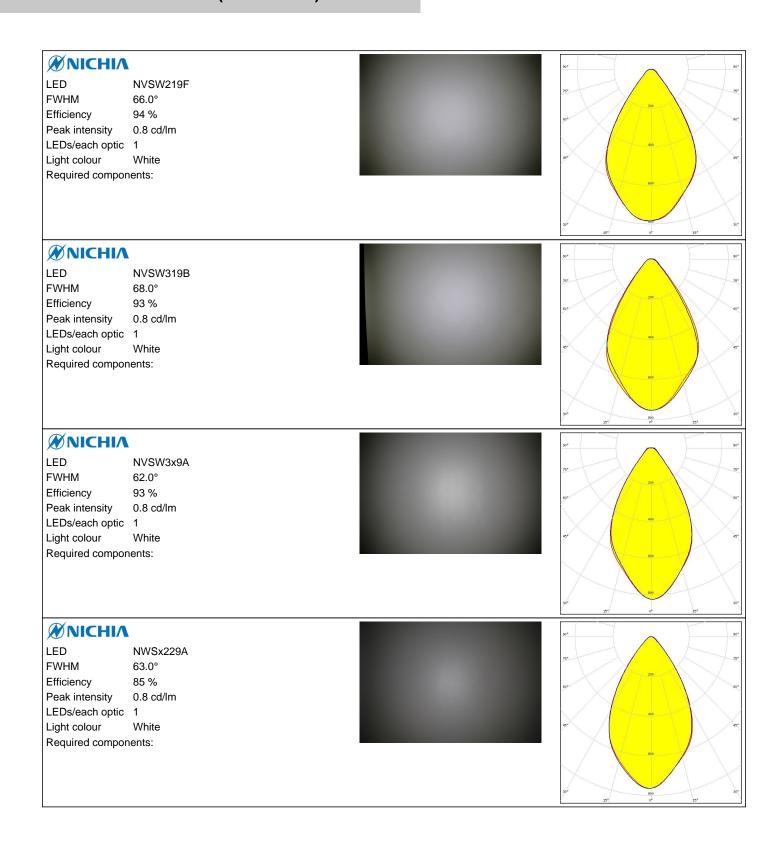


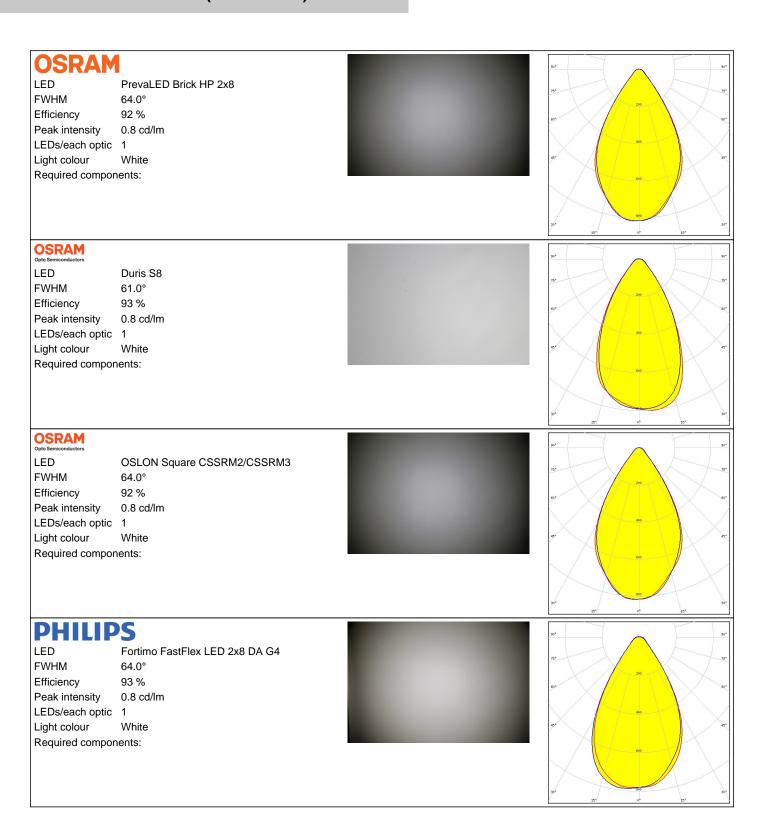






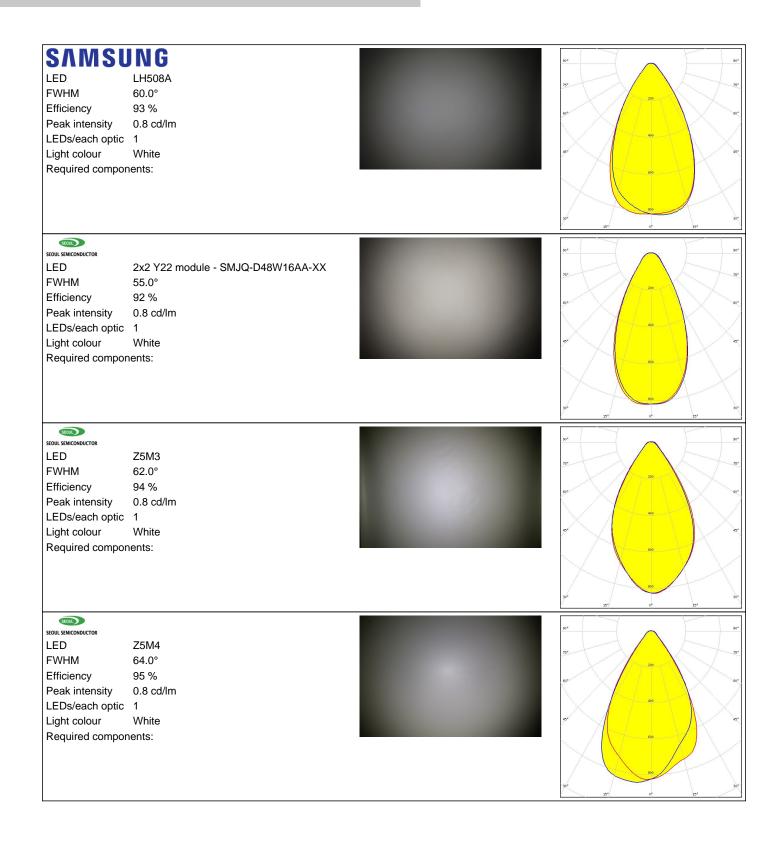




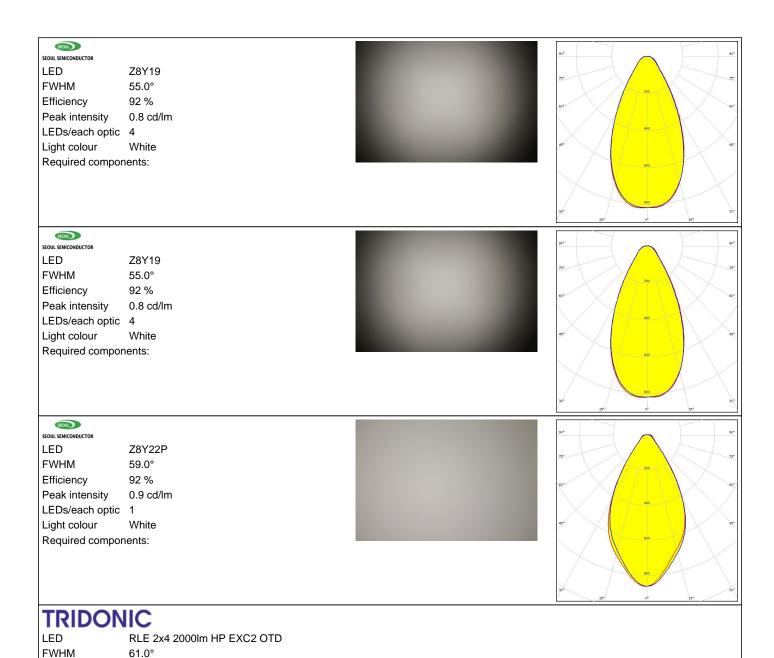


#### PHOTOMETRIC DATA (MEASURED):

#### **SAMSUNG** LED HiLOM RH16 (LH351C) **FWHM** 61.0° Efficiency 94 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: LED LH351B **FWHM** 62.0° 86 % Efficiency Peak intensity 0.8 cd/lm LEDs/each optic 1 White Light colour Required components: SAMSUNG LED LH351C **FWHM** 62.0° Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: SAMSUNG LED LH351D **FWHM** 62.0° Efficiency 91 % Peak intensity 0.8 cd/lm LEDs/each optic 1 White Light colour Required components:



### PHOTOMETRIC DATA (MEASURED):



# Required components:

LEDs/each optic 1

Efficiency

Peak intensity

Light colour

61.0°

94 %

White

0.9 cd/lm

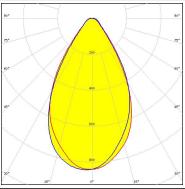
#### PHOTOMETRIC DATA (MEASURED):

### **TRIDONIC**

LED RLE 2x8 4000lm HP EXC2 OTD

FWHM 61.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

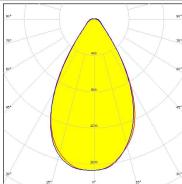




### **TRIDONIC**

LED RLE G1 49x121mm 2000lm xxx EXC OTD

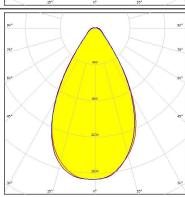
FWHM 61.0°
Efficiency 94 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



#### TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD

FWHM 61.0°
Efficiency 94 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

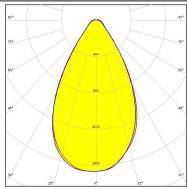


### **TRIDONIC**

LED RLE G1 49x223mm 4000lm xxx EXC OTD

FWHM 61.0°
Efficiency 94 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:







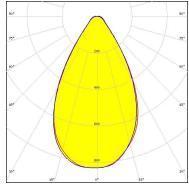
### PHOTOMETRIC DATA (MEASURED):

### **TRIDONIC**

LED RLE G1 49x245mm 4000lm xxx EXC OTD

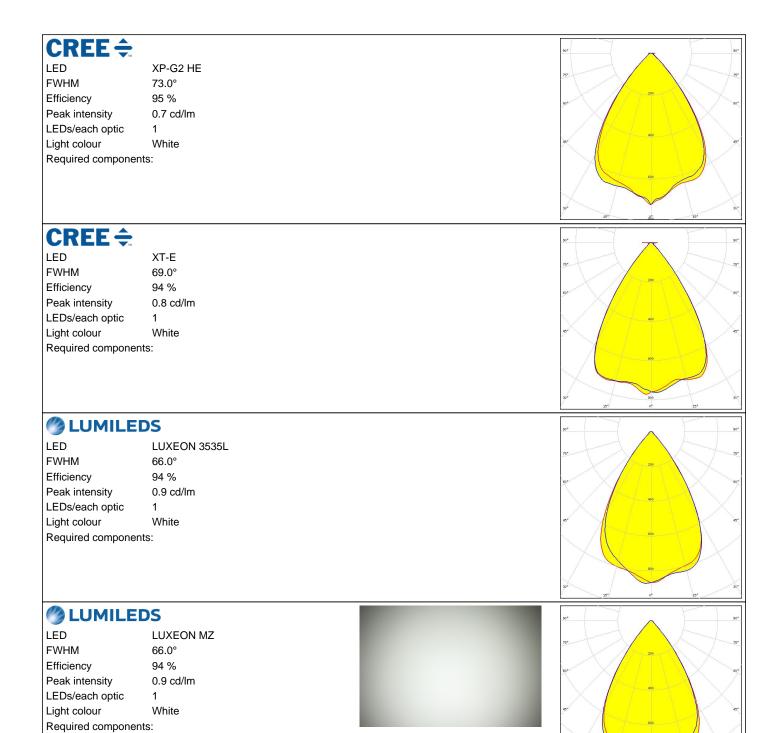
FWHM 61.0°
Efficiency 94 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:







### PHOTOMETRIC DATA (SIMULATED):

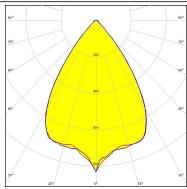


### PHOTOMETRIC DATA (SIMULATED):

#### **WNICHIA**

LED NV4WB35AM

**FWHM** 69.0° Efficiency 95 % Peak intensity 0.8 cd/lm LEDs/each optic Light colour White

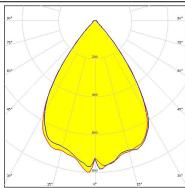


#### **WNICHIA**

Required components:

LED NVSxx19B/NVSxx19C

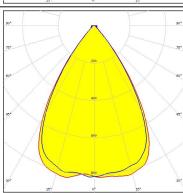
**FWHM** 70.0° 95 % Efficiency Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components:



### OSRAM Opto Semiconductors

LED OSCONIQ P 3030

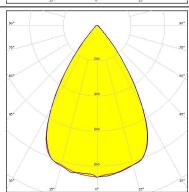
**FWHM** 66.0° Efficiency 96 % Peak intensity 0.8 cd/lm LEDs/each optic Light colour White Required components:



### OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (2W version)

**FWHM** 66.0° Efficiency 96 % 0.9 cd/lm Peak intensity LEDs/each optic White Light colour Required components:



### PHOTOMETRIC DATA (SIMULATED):

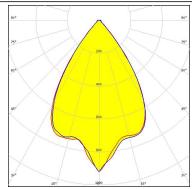
#### **OSRAM**

LED

OSCONIQ P 3737 (3W version)

**FWHM** 66.0° 94 % Efficiency Peak intensity 0.9 cd/lm LEDs/each optic Light colour White

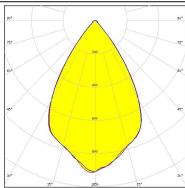
Required components:



### OSRAM Opto Semiconductors

LED OSCONIQ P 3737 Flat

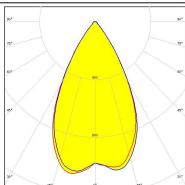
**FWHM** 64.0° 95 % Efficiency Peak intensity 0.9 cd/lm LEDs/each optic 1 White Light colour Required components:



### OSRAM Opto Semiconductors

LED OSLON SSL 80

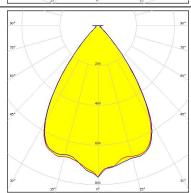
**FWHM** 55.6° Efficiency 94 % Peak intensity 1.1 cd/lm LEDs/each optic Light colour White Required components:



### **PHILIPS**

LED Fortimo FastFlex LED 2x8 DAX G4

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



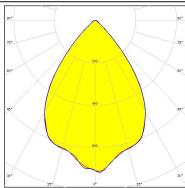
### PHOTOMETRIC DATA (SIMULATED):

### **SAMSUNG**

LED LH231B
FWHM 60.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 4
Light colour White
Required components:

### **SAMSUNG**

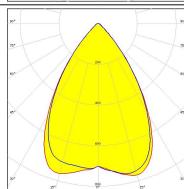
LED LH351D
FWHM 74.0°
Efficiency 95 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



#### SEOUL SEMICONDUCTO

LED SEOUL DC 5050 6V

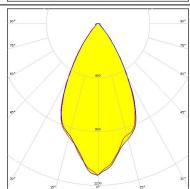
FWHM 64.0°
Efficiency 94 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:





LED Z8Y22T
FWHM 55.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:





#### **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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### **LEDIL Oy**

Joensuunkatu 13 FI-24240 SALO Finland

#### LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

# Local sales and technical support

www.ledil.com/ where\_to\_buy

#### **Shipping locations**

Salo, Finland Hong Kong, China

#### **Distribution Partners**

www.ledil.com/ where\_to\_buy