#### HB-2X2-WW

~65° wide beam

#### **SPECIFICATION:**

**Dimensions** 50.0 x 50.0 Height 8.5 mm glue, pin, screw Fastening **ROHS** compliant yes 🕕



#### **MATERIALS:**

**Type Finish** Component Material Colour Length (mm) HB-2X2-WW Multi-lens **PMMA** clear

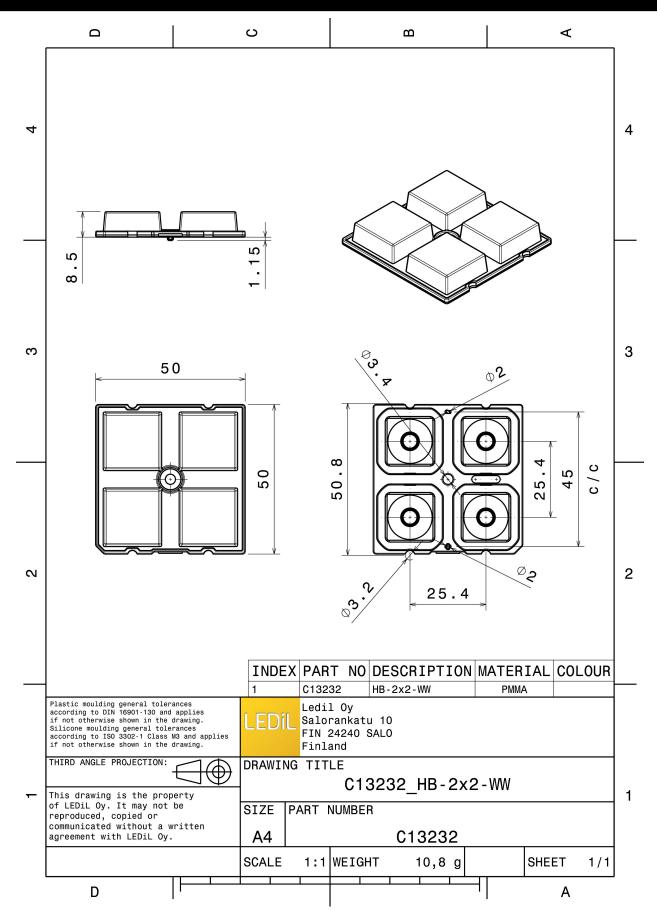
#### **ORDERING INFORMATION:**

» Box size: 480 x 280 x 300 mm

Component Qty in box MOQ MPQ Box weight (kg)

800 C13232\_HB-2X2-WW 160 160 9.5



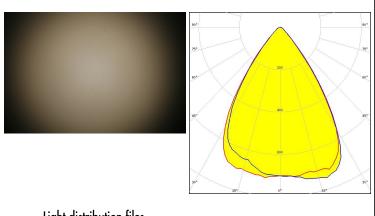


See also our general installation guide: www.ledil.com/installation\_guide



# CREE -

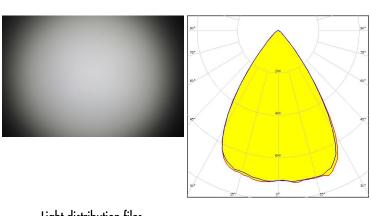
LED XP-G  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 69.0° / 92.0° Efficiency 91 % Peak intensity 0.8 cd/lm LEDs/each optic Light colour/type White Required components:



Light distribution files

# CREE \$

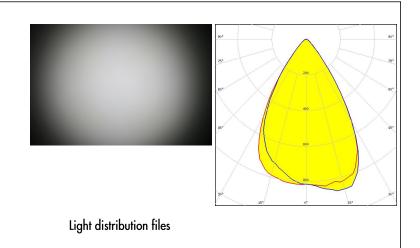
XP-G2 FWHM / FWTM 69.0° / 92.0° Efficiency 91 % Peak intensity 0.7 cd/lm LEDs/each optic Light colour/type White Required components:



Light distribution files

# CREE \$

LED XT-E FWHM / FWTM 65.0° / 89.0° Efficiency 91 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components:





### inventronics

LED PrevaLED Brick HP 2x8

FWHM / FWTM 67.0° / 92.0°

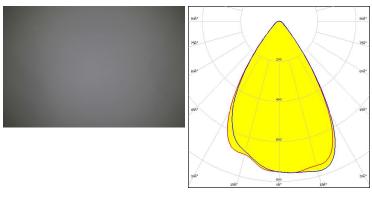
Efficiency 92 %

Peak intensity 0.8 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

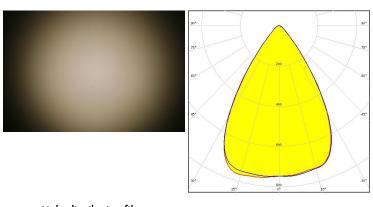


Light distribution files

# **M** LUMILEDS

LED LUXEON Q
FWHM / FWTM 67.0° / 92.0°
Efficiency 91 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1

Light colour/type White Required components:

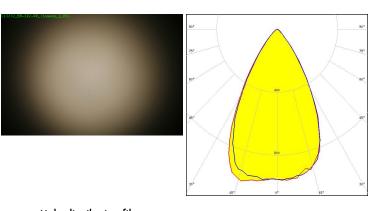


Light distribution files

# **MILEDS**

LED LUXEON Z ES FWHM / FWTM 59.0° / 87.0° Efficiency 90 % Peak intensity 1 cd/lm LEDs/each optic 1

Light colour/type White Required components:

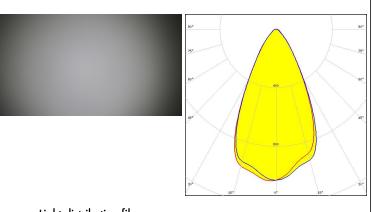


Light distribution files



#### **WNICHIA**

NVSxE21A 54.0° / 89.0° FWHM / FWTM Efficiency 94 % Peak intensity 1.1 cd/lm LEDs/each optic Light colour/type White Required components:

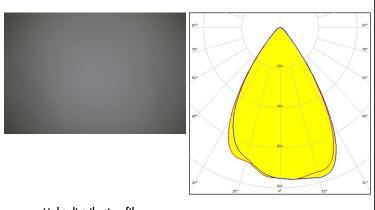


Light distribution files

# OSRAM Opto Semiconductors

OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 67.0° / 92.0° Efficiency 92 % Peak intensity 0.8 cd/lm LEDs/each optic Light colour/type White Required components:

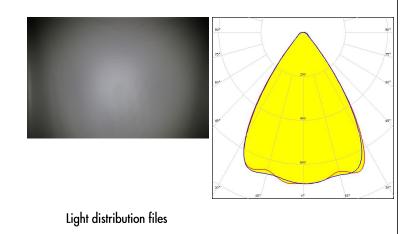


Light distribution files

#### **OSRAM**

LED OSLON Square CSSRM2/CSSRM3

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 71.0° / 94.0° Efficiency 94 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour/type White Required components:



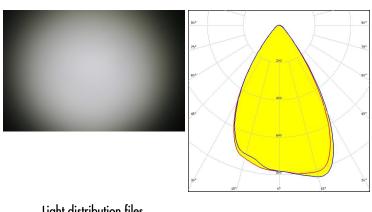
Last update: 02/04/2025 Subject to change without prior notice Published: 15/07/2019



# OSRAM Opto Semiconductors

OSLON Square PC 63.0° / 90.0° FWHM / FWTM Efficiency 91 % Peak intensity 0.9 cd/lm LEDs/each optic

Light colour/type White Required components:

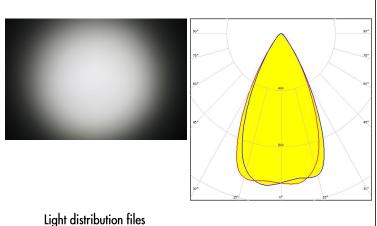


Light distribution files

# OSRAM Opto Semiconductors

OSLON SSL 80 FWHM / FWTM 54.0° / 80.0° Efficiency 92 % Peak intensity 1.1 cd/lm LEDs/each optic

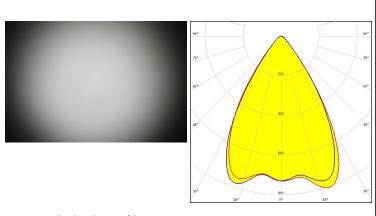
Light colour/type White Required components:



### **SAMSUNG**

LED LH351A FWHM / FWTM 68.0° / 91.0° Efficiency 92 % Peak intensity 0.8 cd/lm LEDs/each optic 1

Light colour/type White Required components:

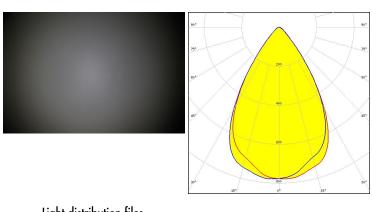


Light distribution files



## **SAMSUNG**

LH351B 65.0° / 92.0° FWHM / FWTM Efficiency 89 % Peak intensity 0.8 cd/lm LEDs/each optic Light colour/type White Required components:

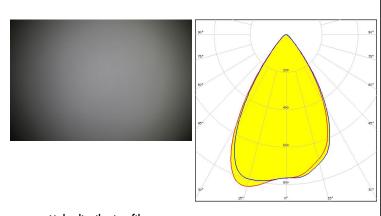


Light distribution files

### **SAMSUNG**

LH351Z FWHM / FWTM 63.0° / 89.0° Efficiency 89 % Peak intensity 0.9 cd/lm LEDs/each optic

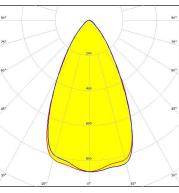
Light colour/type White Required components:



Light distribution files

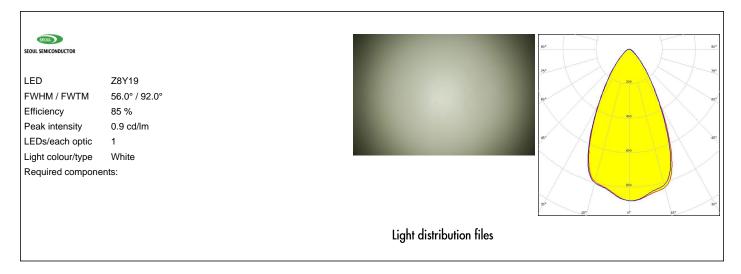


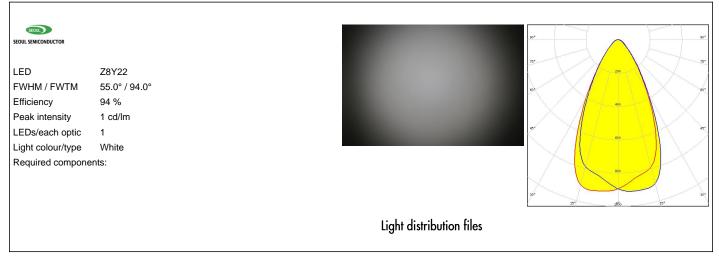
LED Z8Y15  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 56.0° / 92.0° Efficiency 85 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components:

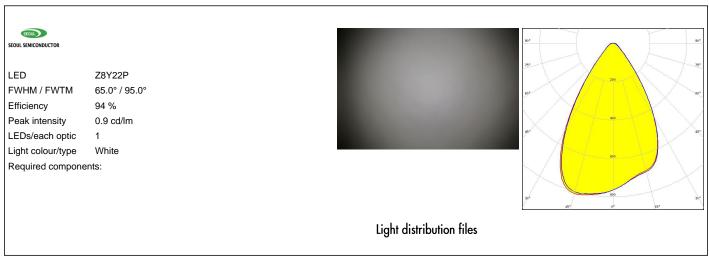


Light distribution files





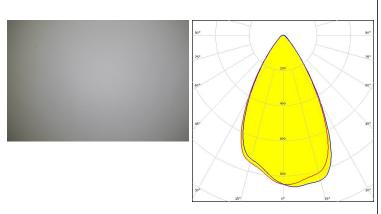






# TOSHIBA Leading Innovation >>>

TL1L4 FWHM / FWTM 60.0° / 87.0° Efficiency 84 % Peak intensity 0.9 cd/lm LEDs/each optic Light colour/type White Required components:

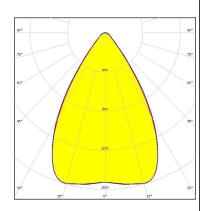


Light distribution files

### **TRIDONIC**

RLE G1 49x121mm 2000lm xxx EXC OTD

FWHM / FWTM 67.0° / 93.0° Efficiency 94 % Peak intensity 0.9 cd/lm LEDs/each optic Light colour/type White Required components:

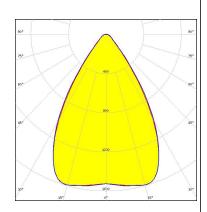


Light distribution files

### **TRIDONIC**

LED RLE G1 49x133mm 2000lm xxx EXC OTD

FWHM / FWTM 67.0° / 93.0° Efficiency 94 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components:



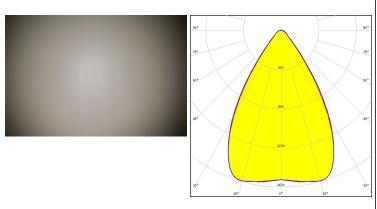
Light distribution files



### **TRIDONIC**

LED RLE G1 49x223mm 4000lm xxx EXC OTD

FWHM / FWTM 67.0° / 93.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

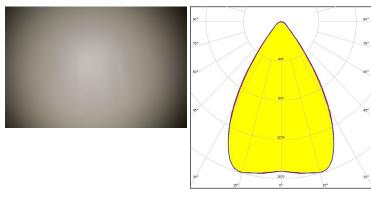


Light distribution files

### **TRIDONIC**

LED RLE G1 49x245mm 4000lm xxx EXC OTD

FWHM / FWTM 67.0° / 93.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

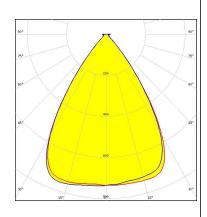


### **OPTICAL RESULTS (SIMULATED):**



LED XD16
FWHM / FWTM 69.0° / 90.0°
Efficiency 95 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files

# CREE \$

LED XP-G2
FWHM / FWTM 72.0° / 94.0°
Efficiency 92 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

50°

200

60°

60°

60°

50°

60°

50°

60°

50°

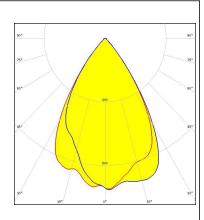
Light distribution files

Protective plate, glass

# **MILEDS**

LED LUXEON 3030 2D (Round LES)

FWHM / FWTM 64.0° / 82.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



### **OPTICAL RESULTS (SIMULATED):**



Required components:

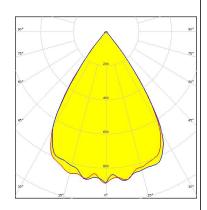
LFD LUXEON C  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 65.0° / 88.0° Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour/type White

Light distribution files

# OSRAM Opto Semiconductore

OSCONIQ C 2424 LFD FWHM / FWTM 68.0° / 82.0° Efficiency 97 % Peak intensity 0.9 cd/lm LEDs/each optic Light colour/type White

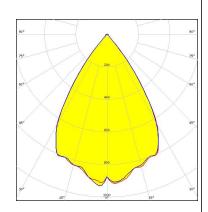
Required components:



Light distribution files

#### **OSRAM**

OSCONIQ C 3030 FWHM / FWTM 68.0° / 84.0° Efficiency 97 % Peak intensity 0.9 cd/lm LEDs/each optic Light colour/type White Required components:



Light distribution files



### **OPTICAL RESULTS (SIMULATED):**

#### OSRAM Opto Semiconductors

 LED
 OSCONIQ C 3030

 FWHM / FWTM
 68.0° / 84.0°

 Efficiency
 89 %

 Peak intensity
 0.9 cd/lm

LEDs/each optic 1
Light colour/type White

Protective plate, glass

Required components:

Light distribution files

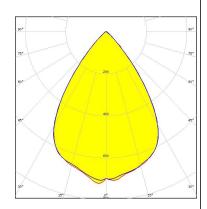
#### OSRAM Opto Semiconductore

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 70.0° / 94.0°
Efficiency 88 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White

Protective plate, glass

Required components:



Light distribution files



LED

FWHM / FWTM 63.0° / 86.0° Efficiency 94 % Peak intensity 1 cd/lm LEDs/each optic 1

Z8Y22T

Light colour/type White Required components:

Light distribution files



# PRODUCT DATASHEET C13232 HB-2X2-WW

#### **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 7 FI-24100 SALO Finland

#### **LEDIL Inc.**

228 West Page Street Suite D Sycamore IL 60178 USA

# Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

# Local sales and technical support

www.ledil.com/ where\_to\_buy

#### **Shipping locations**

Poznan, Poland Hong Kong, China

#### **Distribution Partners**

14/14

www.ledil.com/ where\_to\_buy