

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









**HB-2X2-M** 

~25° medium beam

### **TECHNICAL SPECIFICATIONS:**

Dimensions 50x50 mm Height 8.5 mm

Fastening glue, screw, pin

Colour clear

Box size 480 x 280 x 300 mm

Box weight 9.2 kg

Quantity in Box 800 pcs

ROHS compliant yes 1



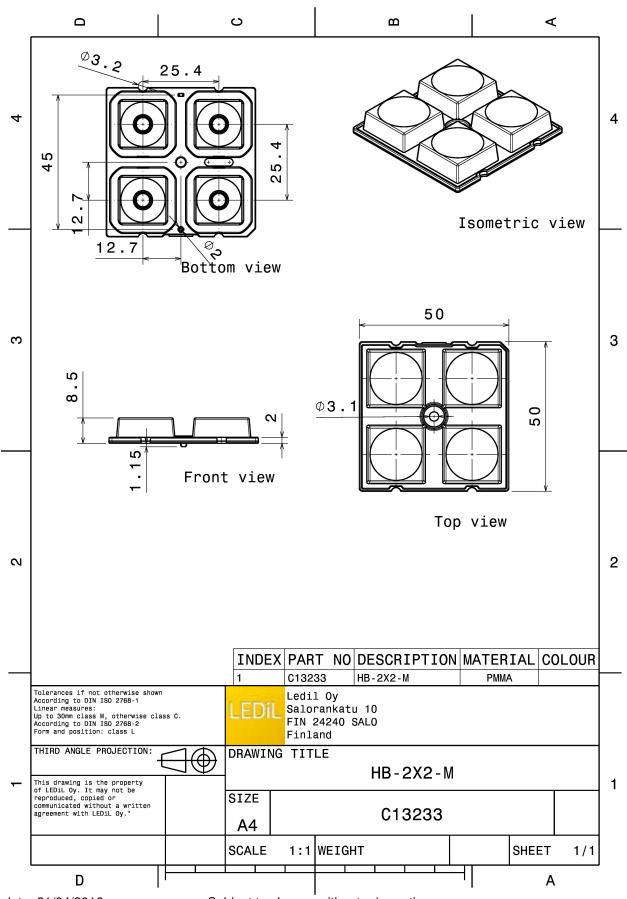
### **MATERIAL SPECIFICATIONS:**

ComponentTypeMaterialColourHB-2X2-MLens arrayPMMAclear



# **PRODUCT**

C13233\_HB-2X2-M



Last update: 21/04/2016

Subject to change without prior notice

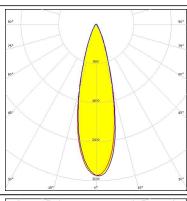
# PHOTOMETRIC DATA (MEASURED):

COMET

LED QUICK FLUX XTP 2x4 xxx LS G5

FWHM 28.0°
Efficiency 94 %
Peak intensity 3.100 cd/lm
Required components:



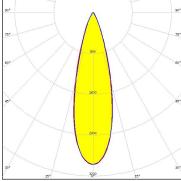


COMET

LED QUICK FLUX XTP 2x6 xxx LS G5

FWHM 29.0° Efficiency 94 % Peak intensity 3.000 cd/lm Required components:





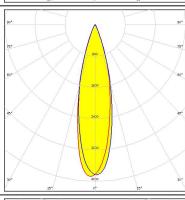
CREE \$

LED XB-D

FWHM 26.0° Efficiency 95 %

Peak intensity 3.900 cd/lm

Required components:



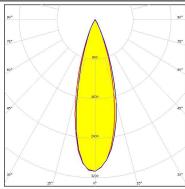
CREE 💠

LED XP-G FWHM 31.0°

Efficiency 91 % Peak intensity 3.100 cd/lm

Required components:





# PHOTOMETRIC DATA (MEASURED):

# CREE \$

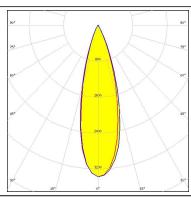
LED XP-G2

FWHM 33.0° Efficiency 93 %

Peak intensity 3.400 cd/lm

Required components:





# CREE &

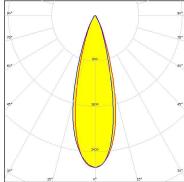
LED XP-G3

FWHM 30.0°

Efficiency 94 %
Peak intensity 2.700 cd/lm

Required components:





# CREE \$

LED XT-E

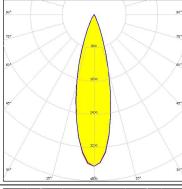
FWHM 25.0°

Efficiency 92 %

Peak intensity 3.700 cd/lm

Required components:





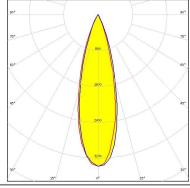
# **U**LG Innotek

LED H35C1 (LEMWA33)

FWHM 29.0° Efficiency 91 % Peak intensity 3.400 cd/lm

Required components:





# PHOTOMETRIC DATA (MEASURED):



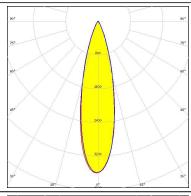
LED LUXEON Q

FWHM 26.0° Efficiency 94 %

Peak intensity 3.600 cd/lm

Required components:





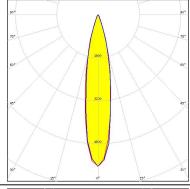
### **MUMILEDS**

LED LUXEON Z ES

FWHM 21.0° Efficiency 91 % Peak intensity 5.640 cd/lm

Required components:





### **WNICHIA**

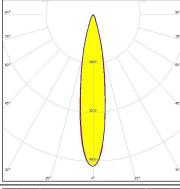
LED NVSxE21A

FWHM 20.0° Efficiency 94 %

Peak intensity 4.970 cd/lm

Required components:



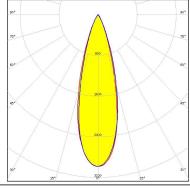


# **WNICHIA**

LED NVSxx19B/NVSxx19C

FWHM 29.0° Efficiency 90 % Peak intensity 3.000 cd/lm Required components:





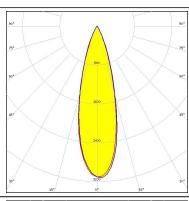
# PHOTOMETRIC DATA (MEASURED):

### **WNICHIA**

LED NVSxx19B/NVSxx19C

FWHM 29.0°
Efficiency 91 %
Peak intensity 3.100 cd/lm
Required components:



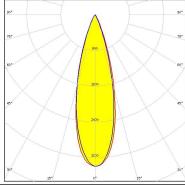


# **OSRAM**

LED PrevaLED Brick DC 2x8

FWHM 30.0°
Efficiency 93 %
Peak intensity 3.400 cd/lm
Required components:





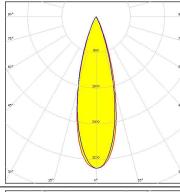
### OSRAM Opto Semiconductors

LED

Oslon Square Gen3

FWHM 30.0°
Efficiency 93 %
Peak intensity 3.400 cd/lm
Required components:





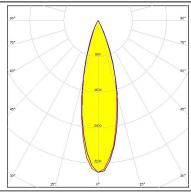
### OSRAM Opto Semiconductors

LED

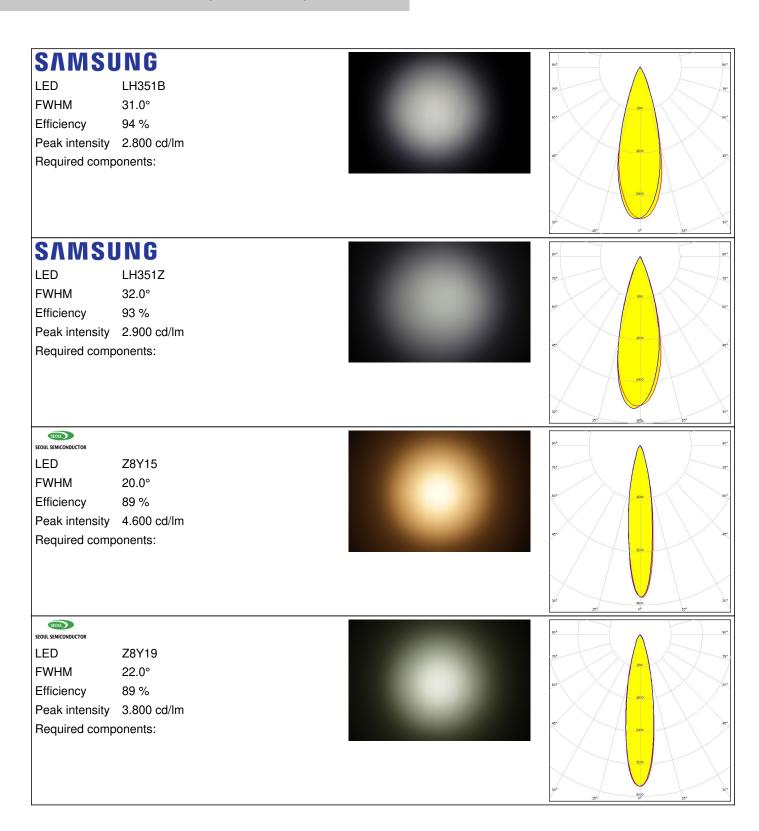
Oslon Square PC

FWHM 30.0°
Efficiency 91 %
Peak intensity 3.400 cd/lm
Required components:





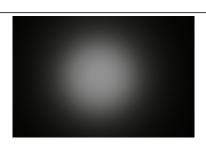
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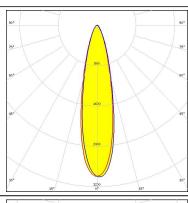


# PHOTOMETRIC DATA (MEASURED):



Z8Y22 LED **FWHM** 24.0° Efficiency 94 % Peak intensity 3.000 cd/lm Required components:

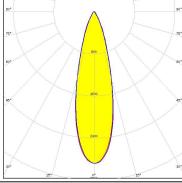




### SEOUL SEOUL SEMICONDUCTOR

LED Z8Y22P **FWHM** 28.0° 94 % Efficiency Peak intensity 2.900 cd/lm Required components:

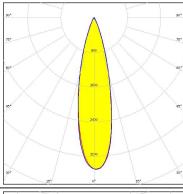




# TOSHIBA Leading Innovation >>>

LED TL1L4 **FWHM** 25.0° Efficiency 85 % Peak intensity 3.500 cd/lm Required components:

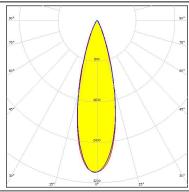




# **TRIDONIC**

LED RLE G1 49x121mm 2000lm xxx EXC OTD

**FWHM** 29.0° 94 % Efficiency Peak intensity 3.000 cd/lm Required components:

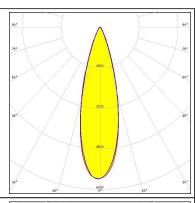


# PHOTOMETRIC DATA (MEASURED):

# **TRIDONIC**

LED RLE G1 49x133mm 2000lm xxx EXC OTD

FWHM 29.0° Efficiency 94 % Peak intensity 3.000 cd/lm Required components:

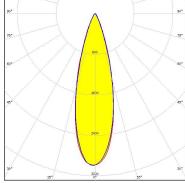


# **TRIDONIC**

LED RLE G1 49x223mm 4000lm xxx EXC OTD

FWHM 29.0°
Efficiency 94 %
Peak intensity 3.000 cd/lm
Required components:



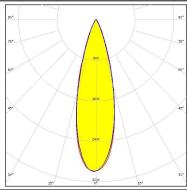


# **TRIDONIC**

LED RLE G1 49x245mm 4000lm xxx EXC OTD

FWHM 29.0°
Efficiency 94 %
Peak intensity 3.000 cd/lm
Required components:





# PHOTOMETRIC DATA (SIMULATED):

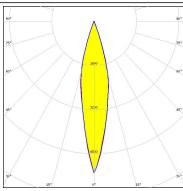
# CREE \$

LED XQ-E HI

FWHM 22.0° Efficiency 93 %

Peak intensity 5.500 cd/lm

Required components:



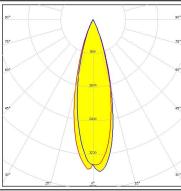
### **MUMILEDS**

LED LUXEON 3030 2D

FWHM 28.0° Efficiency 94 %

Peak intensity 3.600 cd/lm

Required components:

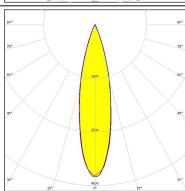


## **MUMILEDS**

LED LUXEON C

FWHM 25.0° Efficiency 94 % Peak intensity 4.600 cd/lm

Required components:

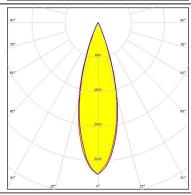


### OSRAM Opto Semiconductors

LED Oslon SSL 80

FWHM 29.6°
Efficiency 94 %
Peak intensity 3.500 cd/lm

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.

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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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