



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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

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



## HB-2X2-RW

~50° wide beam optimized for CREE XP-L and XM-L

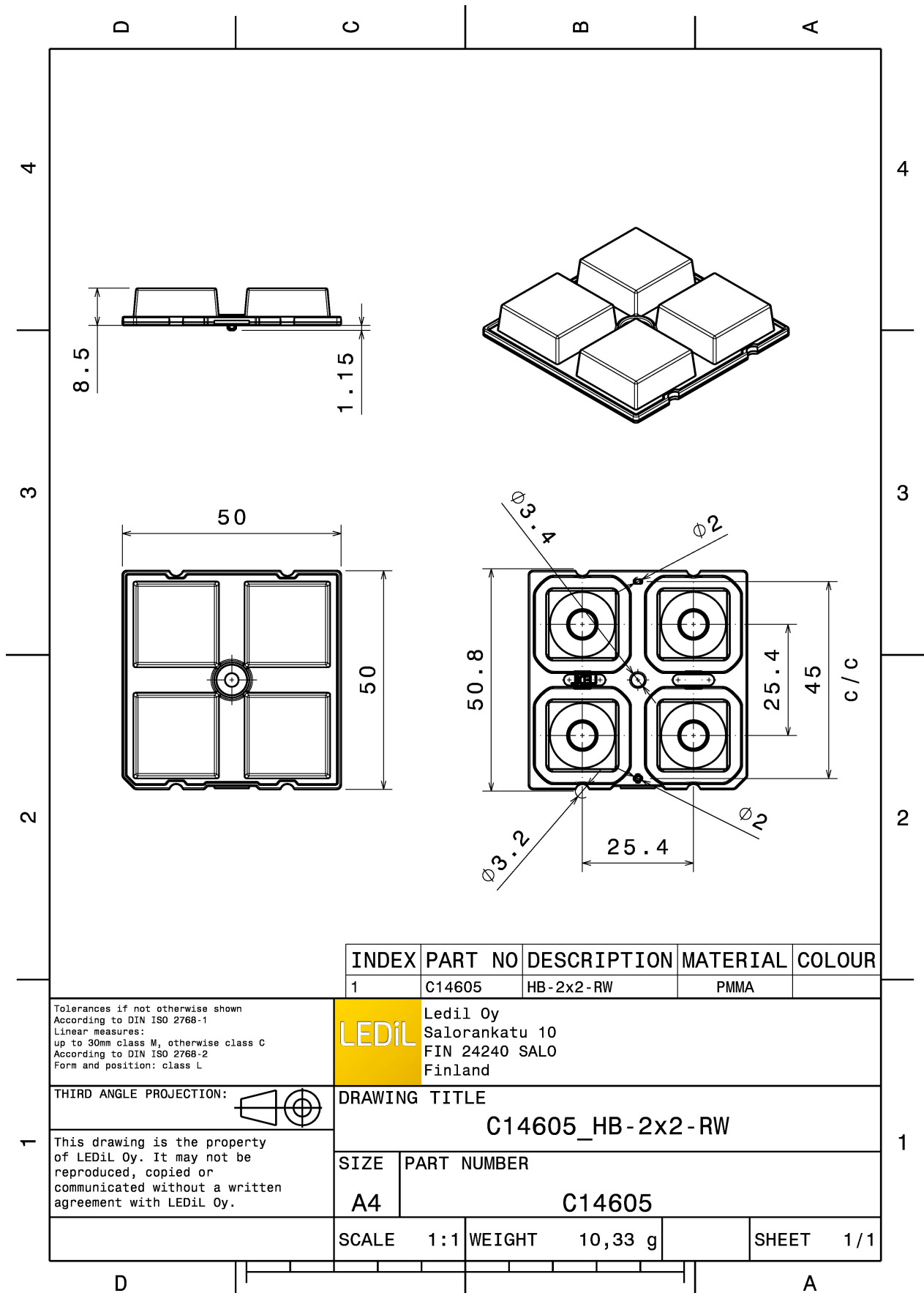
### TECHNICAL SPECIFICATIONS:

Dimensions	50.0 mm
Height	8.5 mm
Fastening	pin, screw
Colour	clear
Box size	476 x 273 x 292 mm
Box weight	9.1 kg
Quantity in Box	800 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

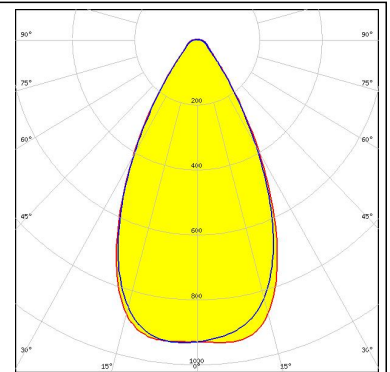
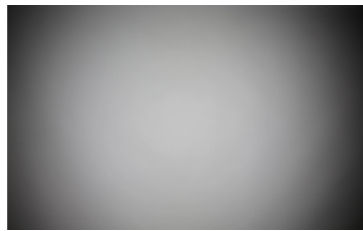
Component	Type	Material	Colour
HB-2X2-RW	Lens array	PMMA	clear



#### PHOTOMETRIC DATA (MEASURED):

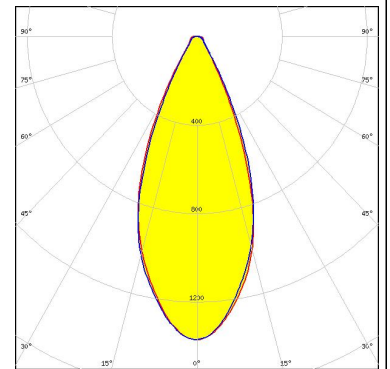
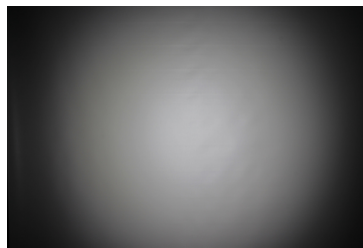
bridgelux

LED SMD 5050  
 FWHM 56.0°  
 Efficiency 94 %  
 Peak intensity 0.940 cd/lm  
 Required components:



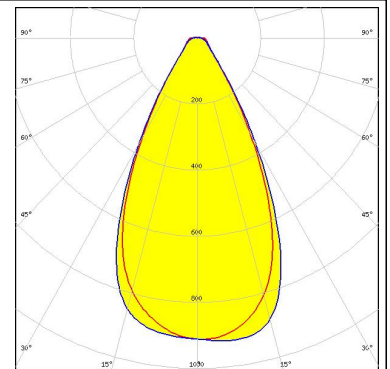
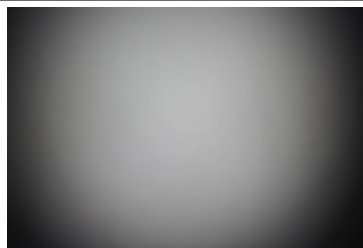
**CREE**

LED XD16  
 FWHM 44.0°  
 Efficiency 90 %  
 Peak intensity 1.400 cd/lm  
 Required components:



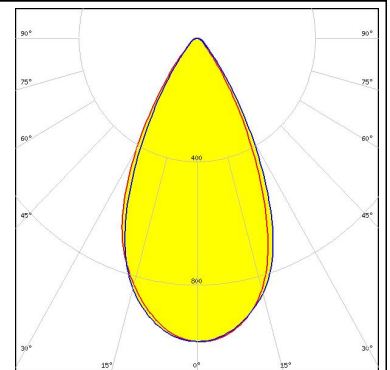
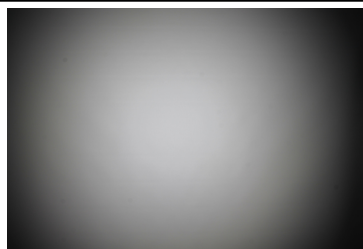
**CREE**

LED XD16 2x2 cluster  
 FWHM 54.0°  
 Efficiency 92 %  
 Peak intensity 0.920 cd/lm  
 Required components:



**CREE**

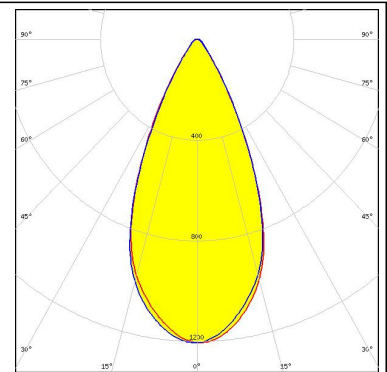
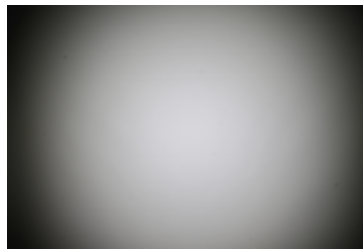
LED XHP35 HD  
 FWHM 53.0°  
 Efficiency 84 %  
 Peak intensity 0.990 cd/lm  
 Required components:



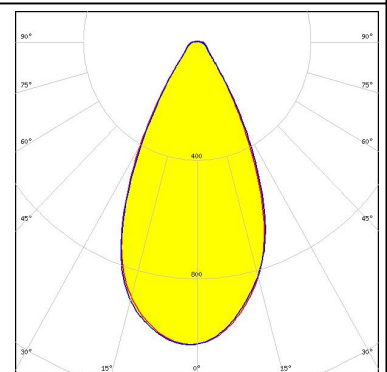
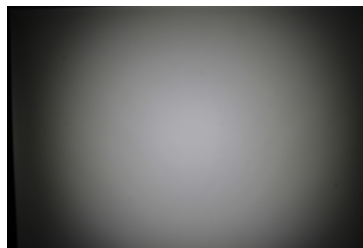
#### PHOTOMETRIC DATA (MEASURED):



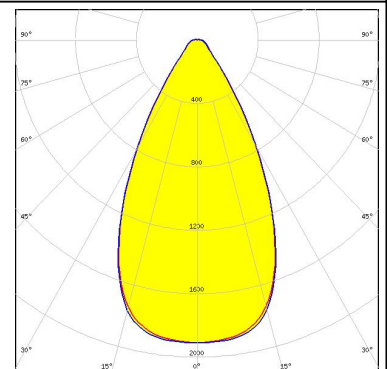
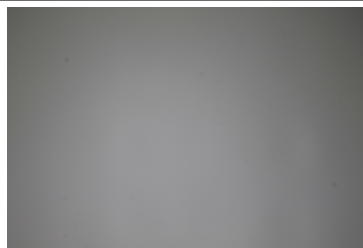
LED XP-G3  
 FWHM 48.0°  
 Efficiency 86 %  
 Peak intensity 1.200 cd/lm  
 Required components:



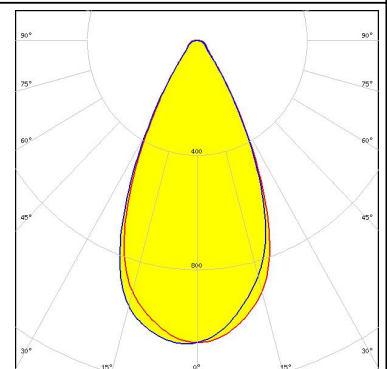
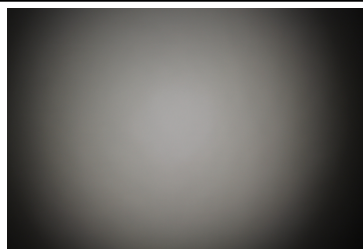
LED XP-L2  
 FWHM 52.0°  
 Efficiency 92 %  
 Peak intensity 1.000 cd/lm  
 Required components:



LED LUXEON 5050  
 FWHM 55.0°  
 Efficiency 94 %  
 Peak intensity 0.990 cd/lm  
 Required components:



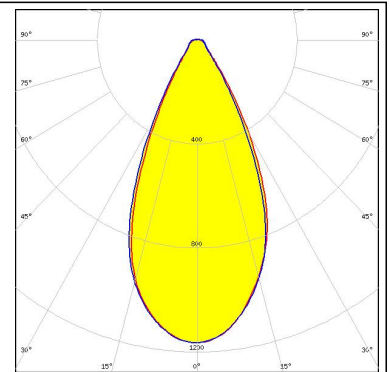
LED LUXEON V  
 FWHM 52.0°  
 Efficiency 93 %  
 Peak intensity 1.100 cd/lm  
 Required components:



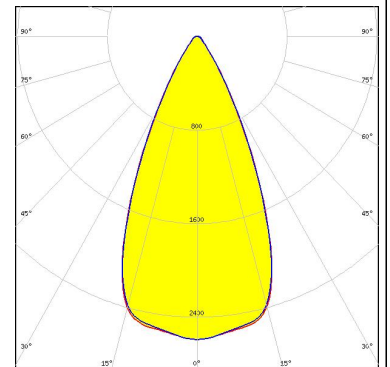
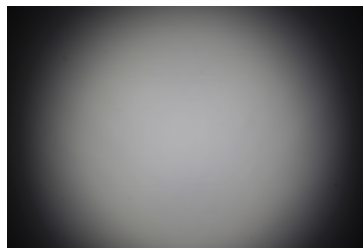
### PHOTOMETRIC DATA (MEASURED):



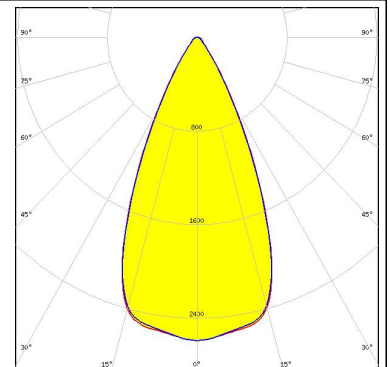
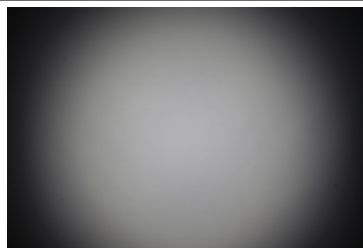
LED NVSW3x9A  
FWHM 50.0°  
Efficiency 93 %  
Peak intensity 1.200 cd/lm  
Required components:



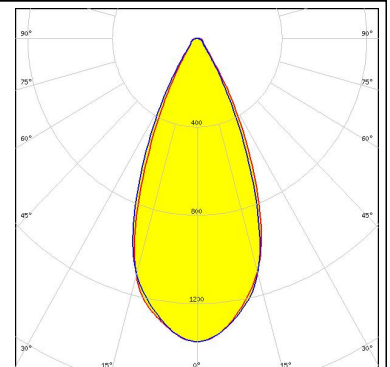
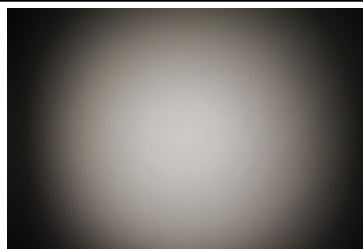
LED PrevaLED Brick DC 2x8  
FWHM 49.0°  
Efficiency 94 %  
Peak intensity 1.300 cd/lm  
Required components:



LED Oslon Square Gen3  
FWHM 49.0°  
Efficiency 94 %  
Peak intensity 1.300 cd/lm  
Required components:



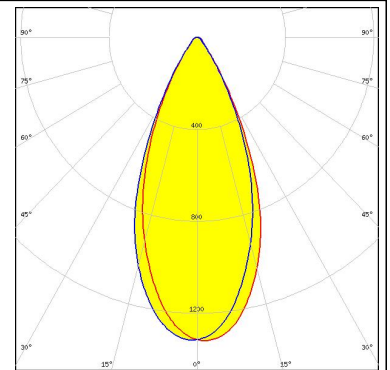
LED Fortimo FastFlex LED board 2x8 DA G4  
FWHM 45.0°  
Efficiency 93 %  
Peak intensity 1.400 cd/lm  
Required components:



**PHOTOMETRIC DATA (MEASURED):**

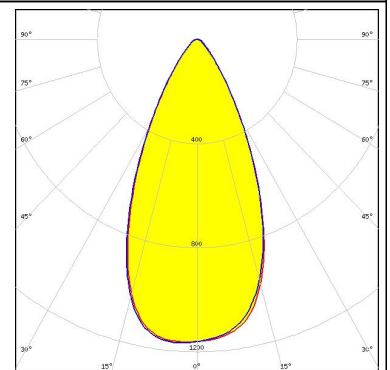
**SAMSUNG**

LED LH351B  
FWHM 45.0°  
Efficiency 86 %  
Peak intensity 1.320 cd/lm  
Required components:



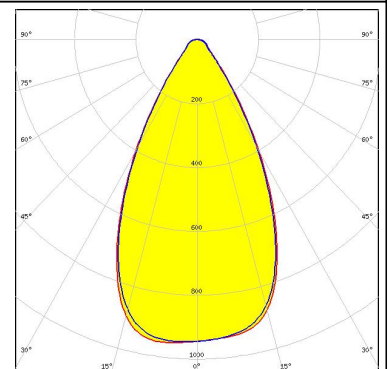
**SAMSUNG**

LED LH351D  
FWHM 49.0°  
Efficiency 94 %  
Peak intensity 0.000 cd/lm  
Required components:



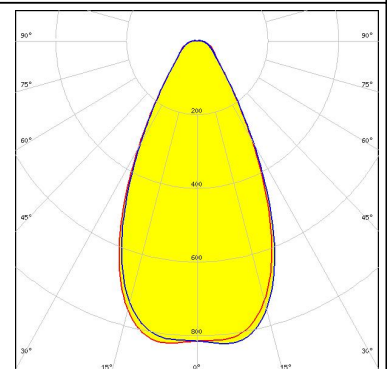
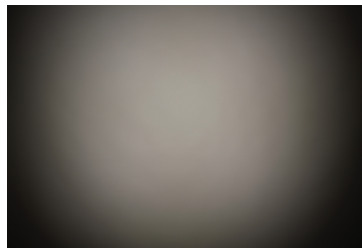
**SAMSUNG**

LED LH508A  
FWHM 56.0°  
Efficiency 93 %  
Peak intensity 0.950 cd/lm  
Required components:



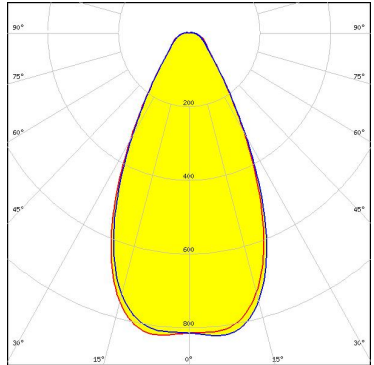

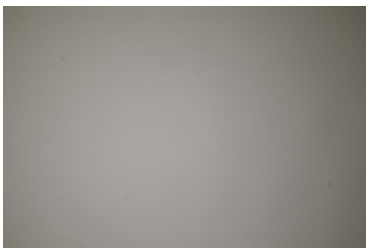
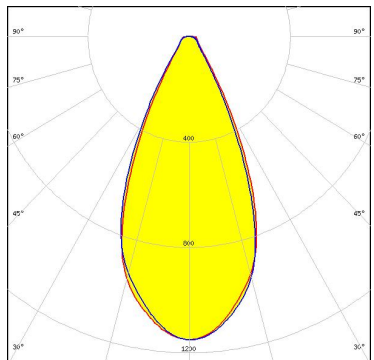

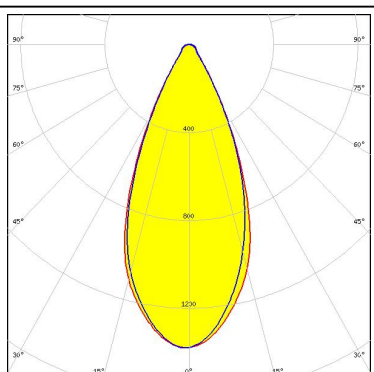

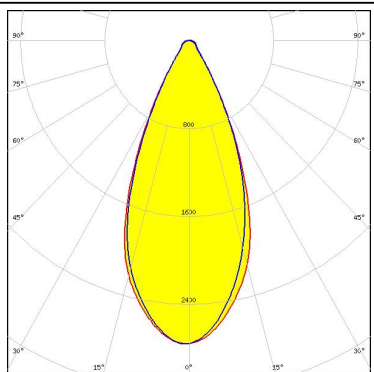


SEOUL SEMICONDUCTOR

LED SMJQ-D48W16AA-XX  
FWHM 54.0°  
Efficiency 92 %  
Peak intensity 0.840 cd/lm  
Required components:



**PHOTOMETRIC DATA (MEASURED):**

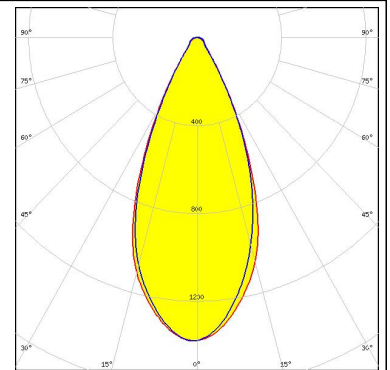
<p> SEOUL SEMICONDUCTOR</p> <p>LED            Z8Y19 2x2 cluster FWHM         54.0° Efficiency     92 % Peak intensity 0.840 cd/lm Required components:</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED            Z8Y22P FWHM         48.0° Efficiency     92 % Peak intensity 1.200 cd/lm Required components:</p>		
<p><b>TRIDONIC</b></p> <p>LED            RLE G1 49x121mm 2000lm xxx EXC OTD FWHM         46.0° Efficiency     94 % Peak intensity 1.400 cd/lm Required components:</p>		
<p><b>TRIDONIC</b></p> <p>LED            RLE G1 49x133mm 2000lm xxx EXC OTD FWHM         46.0° Efficiency     94 % Peak intensity 1.400 cd/lm Required components:</p>		



#### PHOTOMETRIC DATA (MEASURED):

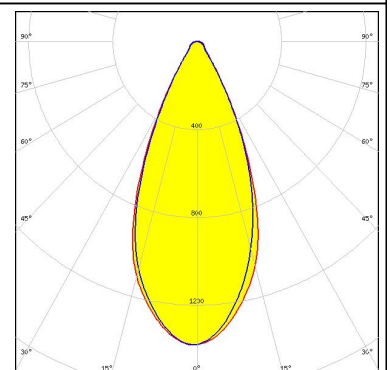
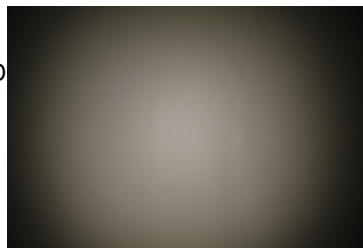
#### TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD  
FWHM 46.0°  
Efficiency 94 %  
Peak intensity 1.400 cd/lm  
Required components:



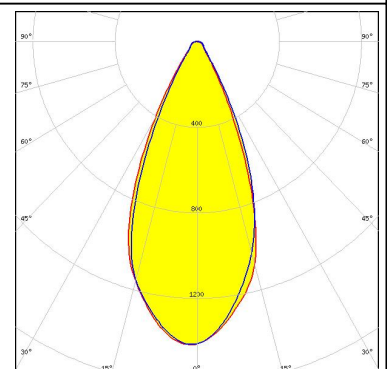
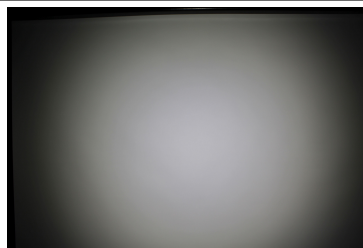
#### TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD  
FWHM 46.0°  
Efficiency 94 %  
Peak intensity 1.400 cd/lm  
Required components:



#### TRIDONIC

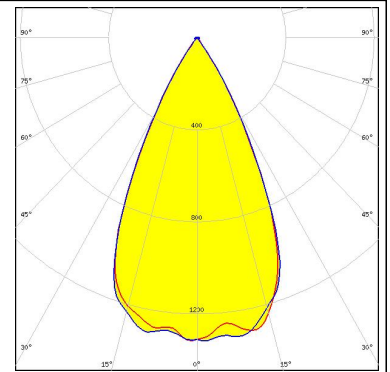
LED RLE G2 HP 2x8 4000lm  
FWHM 46.0°  
Efficiency 94 %  
Peak intensity 1.400 cd/lm  
Required components:



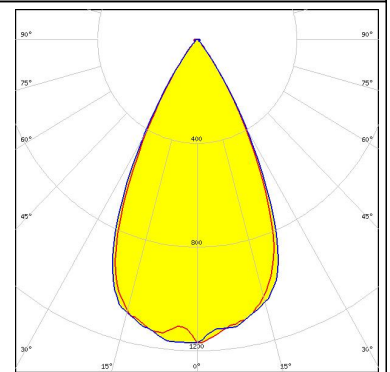
#### PHOTOMETRIC DATA (SIMULATED):



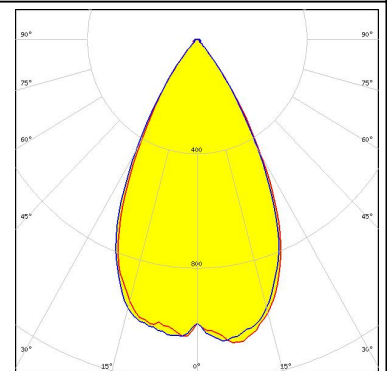
LED XHP35 HI  
 FWHM 52.0°  
 Efficiency 93 %  
 Peak intensity 1.400 cd/lm  
 Required components:



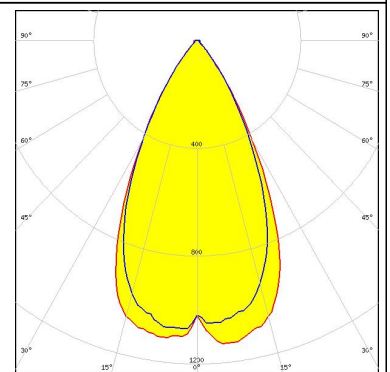
LED XM-L  
 FWHM 54.0°  
 Efficiency 92 %  
 Peak intensity 1.180 cd/lm  
 Required components:



LED XP-L  
 FWHM 55.0°  
 Efficiency 93 %  
 Peak intensity 1.080 cd/lm  
 Required components:



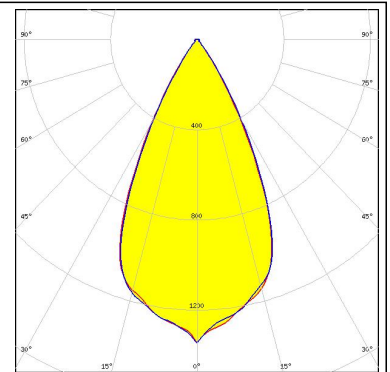
LED Duris S8  
 FWHM 53.0°  
 Efficiency 91 %  
 Peak intensity 1.100 cd/lm  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

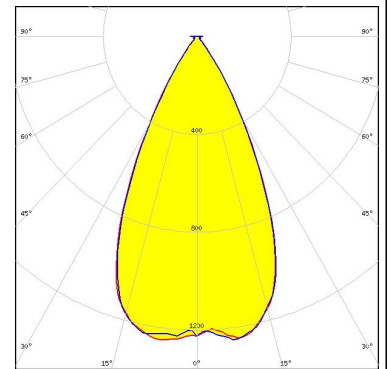
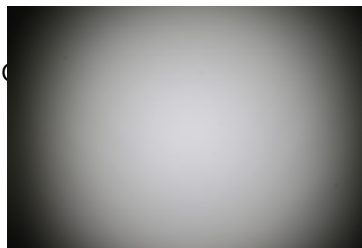
**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 3737 (3W version)  
FWHM 52.0°  
Efficiency 94 %  
Peak intensity 1.350 cd/lm  
Required components:



**PHILIPS**

LED Fortimo FastFlex LED board 2x8 DAX C  
FWHM 51.0°  
Efficiency 94 %  
Peak intensity 1.300 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.

### 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](http://www.ledil.com/where_to_buy)

#### Shipping locations

Salo, Finland  
Hong Kong, China

#### Distribution Partners

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)