

**HB-IP-2X6-O** 

~30° 115° oval beam

#### **TECHNICAL SPECIFICATIONS:**

Dimensions 173x71.4 mm

Height 13.1 mm

Fastening screw

Colour clear

Box size 476 x 273 x 247 mm

Box weight 8 kg

Quantity in Box 108 pcs

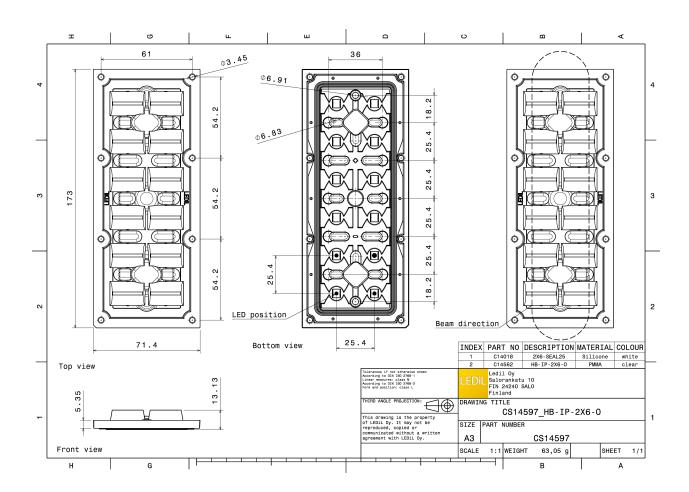
ROHS compliant yes 1



#### **MATERIAL SPECIFICATIONS:**

Component HB-IP-2X6-O	<b>Type</b> Lens array	<b>Material</b> PMMA	<b>Colour</b> clear





### PHOTOMETRIC DATA (MEASURED):

### CREE 💠

**FWHM** 

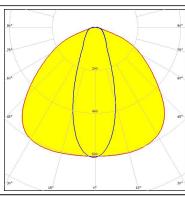
LED XM-L

36.0 + 110.0°

Efficiency 91 % Peak intensity 0.610 cd/lm

Required components:





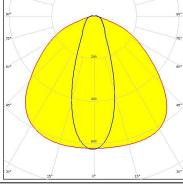
### CREE 🕏

LED XM-L2

FWHM 36.0 + 108.0°

Efficiency 91 %
Peak intensity 0.630 cd/lm
Required components:



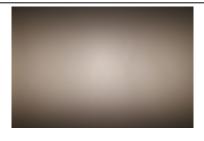


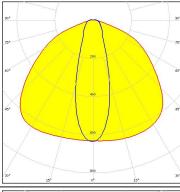
### CREE 💠

LED XP-G

FWHM 31.0 + 117.0°

Efficiency 91 %
Peak intensity 0.650 cd/lm
Required components:





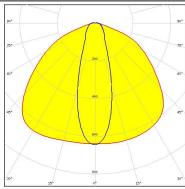
# CREE 💠

LED XP-G2

FWHM 32.0 + 116.0°

Efficiency 92 %
Peak intensity 0.660 cd/lm
Required components:





### PHOTOMETRIC DATA (MEASURED):

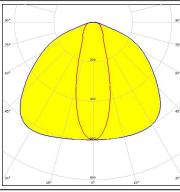
### CREE 💠

LED XP-G3

FWHM 33.0 + 119.0°

Efficiency 92 %
Peak intensity 0.630 cd/lm
Required components:



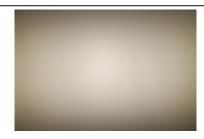


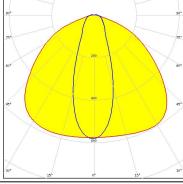
### CREE 🕏

LED XP-L

FWHM 36.0 + 115.0°

Efficiency 91 %
Peak intensity 0.600 cd/lm
Required components:





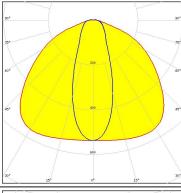
### CREE 💠

LED XP-L2

FWHM 118.0 + 38.0°

Efficiency 92 %
Peak intensity 0.560 cd/lm
Required components:





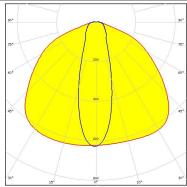
# CREE 💠

LED XT-E

FWHM 31.0 + 119.0°

Efficiency 92 %
Peak intensity 0.630 cd/lm
Required components:





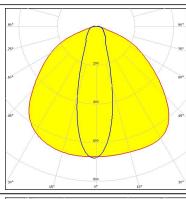
### PHOTOMETRIC DATA (MEASURED):

#### **MUMILEDS**

LED LUXEON R FWHM 30.0 + 109.0°

Efficiency 91 %
Peak intensity 0.680 cd/lm
Required components:



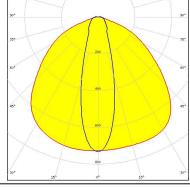


#### **MUMILEDS**

LED LUXEON Rebel FWHM 28.0 + 107.0°

Efficiency 91 %
Peak intensity 0.730 cd/lm
Required components:



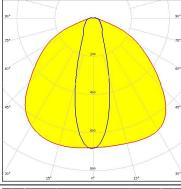


### **DESCRIPTION** LUMILEDS

LED LUXEON Rebel ES FWHM 30.0 + 110.0°

Efficiency 91 %
Peak intensity 0.690 cd/lm
Required components:



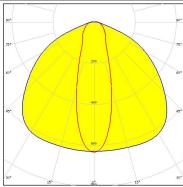


### **DESCRIPTION** LUMILEDS

LED LUXEON T FWHM 32.0 + 115.0°

Efficiency 91 %
Peak intensity 0.630 cd/lm
Required components:





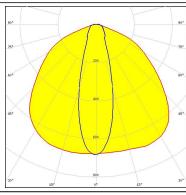
### PHOTOMETRIC DATA (MEASURED):

#### **MUMILEDS**

LED LUXEON TX FWHM 30.0 + 111.0°

Efficiency 90 %
Peak intensity 0.690 cd/lm
Required components:



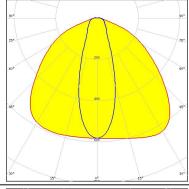


#### **MUMILEDS**

LED LUXEON V FWHM 112.0 + 34.0°

Efficiency 87 %
Peak intensity 0.600 cd/lm
Required components:





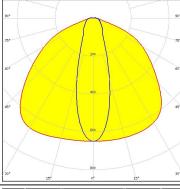
### **DESCRIPTION** LUMILEDS

LED LUXEON XR-TX (L2T0-xxyy012M)

FWHM 30.0 + 115.0°

Efficiency 91 %
Peak intensity 0.670 cd/lm
Required components:



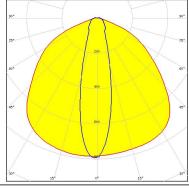


### **DESCRIPTION** LUMILEDS

LED LUXEON Z ES FWHM 25.0 + 108.0°

Efficiency 90 %
Peak intensity 0.790 cd/lm
Required components:





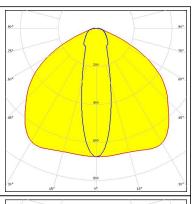
### PHOTOMETRIC DATA (MEASURED):

#### **WNICHIA**

LED NVSxE21A FWHM 26.0 + 116.0°

Efficiency 91 %
Peak intensity 0.700 cd/lm
Required components:





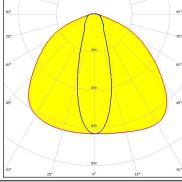
### **WNICHIA**

LED NVSxx19B/NVSxx19C

FWHM 114.0 + 32.0°

Efficiency 91 %
Peak intensity 0.670 cd/lm
Required components:





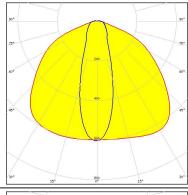
### **WNICHIA**

LED NVSxx19B/NVSxx19C

FWHM 31.0 + 116.0°

Efficiency 90 %
Peak intensity 0.630 cd/lm
Required components:





#### OSRAM Opto Semiconductors

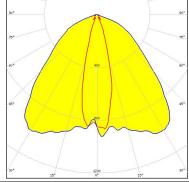
LED Duris S8

FWHM 111.0 + 38.0°

Efficiency 92 %
Peak intensity 0.920 cd/lm

Required components:





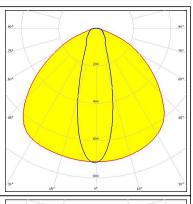
### PHOTOMETRIC DATA (MEASURED):

#### OSRAM Opto Semiconductors

LED Oslon Square EC FWHM 30.0 + 108.0°

Efficiency 91 %
Peak intensity 0.720 cd/lm
Required components:



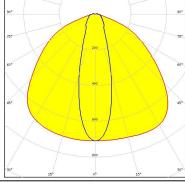


#### OSRAM Opto Semiconductore

LED Oslon Square Gen3 FWHM 110.0 + 29.0°

Efficiency 92 %
Peak intensity 0.720 cd/lm
Required components:



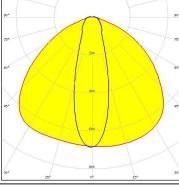


#### OSRAM Opto Semiconductors

LED Oslon Square PC FWHM 30.0 + 111.0°

Efficiency 92 %
Peak intensity 0.690 cd/lm
Required components:



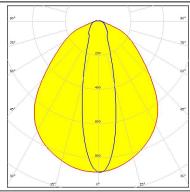


#### OSRAM Opto Semiconductors

LED Oslon SSL 80 FWHM 26.0 + 92.0°

Efficiency 93 %
Peak intensity 0.890 cd/lm
Required components:





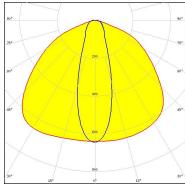
### PHOTOMETRIC DATA (MEASURED):

### **PHILIPS**

LED Fortimo FastFlex LED board 2x6 DP G4

FWHM 32.0 + 116.0°

Efficiency 92 %
Peak intensity 0.660 cd/lm
Required components:

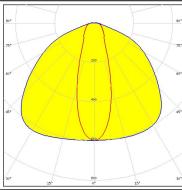


#### PHILIPS

LED Fortimo FastFlex LED board 2x6 DPX G4

FWHM 33.0 + 119.0°

Efficiency 92 %
Peak intensity 0.630 cd/lm
Required components:



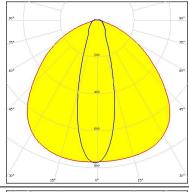
### **SAMSUNG**

LED LH351Z

FWHM 29.0 + 104.0°

Efficiency 91 %
Peak intensity 0.770 cd/lm
Required components:





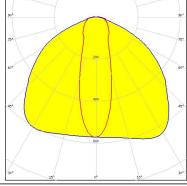


LED SMJQ-D36W12Mx

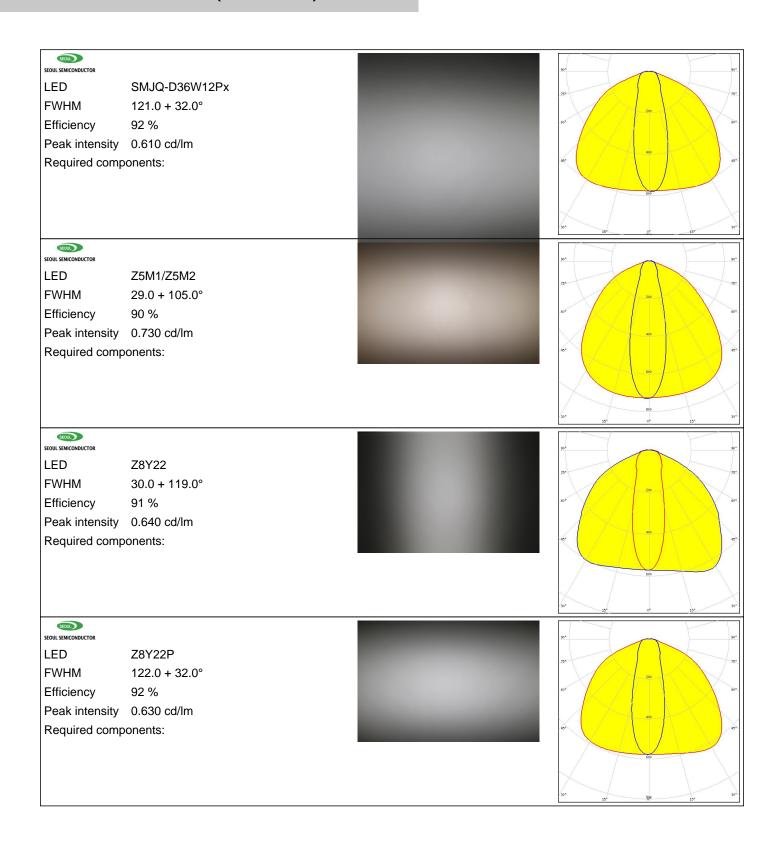
FWHM 30.0 + 119.0°

Efficiency 91 %
Peak intensity 0.640 cd/lm
Required components:





### PHOTOMETRIC DATA (MEASURED):





### PHOTOMETRIC DATA (MEASURED):

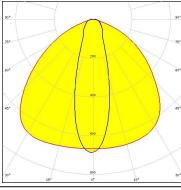
# TOSHIBA Leading Innovation >>>

LED TL1L4

**FWHM** 29.0 + 107.0°

Efficiency 87 % Peak intensity 0.690 cd/lm Required components:





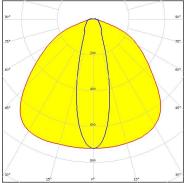
### **TRIDONIC**

LED RLE G2 HP 2x6 3000lm

**FWHM**  $108.0 + 29.0^{\circ}$ 

Efficiency 92 % Peak intensity 0.730 cd/lm Required components:





### PHOTOMETRIC DATA (SIMULATED):

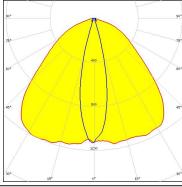


LED H35C1 (LEMWA33)

 $\begin{tabular}{ll} FWHM & 24.0 + 99.0^\circ \\ Efficiency & 94 \% \\ Peak intensity & 1.200 cd/lm \end{tabular}$ 

Required components:



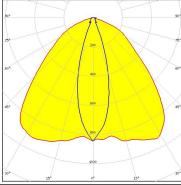


#### **MUMILEDS**

LED LUXEON 5050 FWHM 34.0 + 96.0°

Efficiency 93 %
Peak intensity 0.940 cd/lm

Required components:



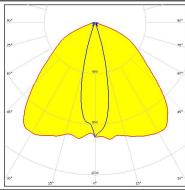
### **WNICHIA**

LED NVSW3x9A FWHM 103.0 + 25.0°

Efficiency 91 %

Peak intensity 1.000 cd/lm

Required components:



#### OSRAM Opto Semiconductors

LED

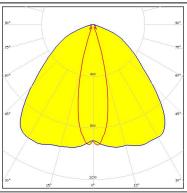
OSCONIQ P 3737 (3W version)

FWHM 27.0 + 100.0°

Efficiency 94 %

Peak intensity 1.020 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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