

EMERALD-A

Asymmetric beam

TECHNICAL SPECIFICATIONS:

Dimensions Ø 21.6 mm

Height 6.9 mm

Fastening glue, pin

Colour clear

Box size 480 x 280 x 300 mm

Box weight 4.6 kg

Quantity in Box 2016 pcs

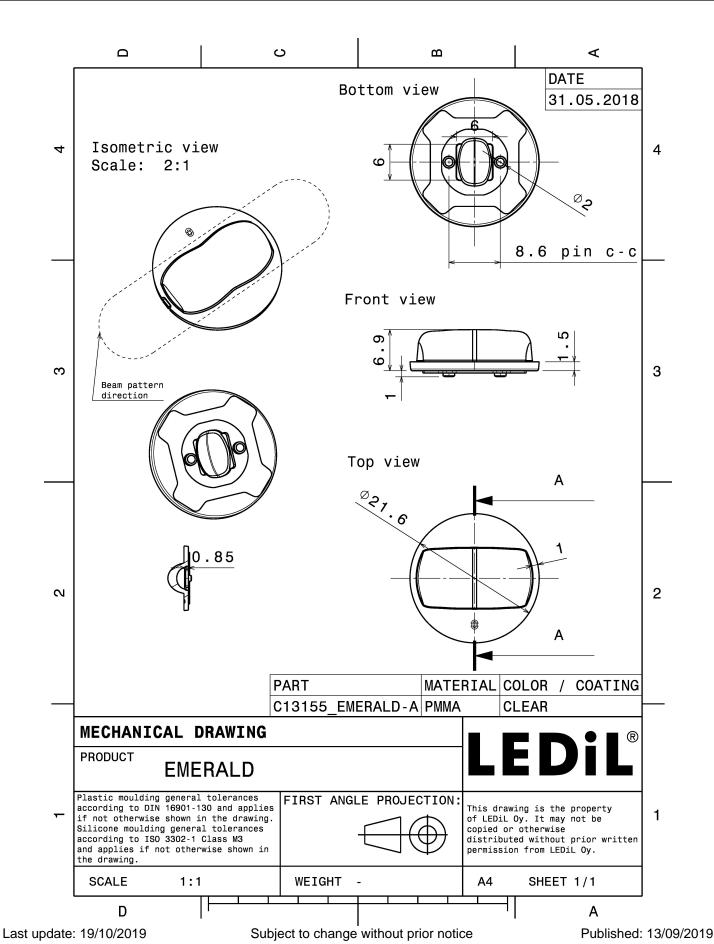
ROHS compliant yes 1



MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourEMERALD-ASingle lensPMMAclear







PHOTOMETRIC DATA (MEASURED):



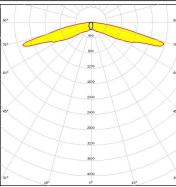
LED XB-D

FWHM 157.0 + 62.0°

Efficiency 90 %

Peak intensity 2.000 cd/lmLEDs/each optic 1

Light colour White Required components:



CREE ÷

LED XM-L

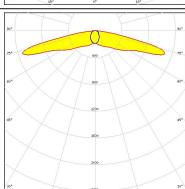
FWHM 157.0 + 83.0°

Efficiency 94 %

Peak intensity 1.100 cd/lm

LEDs/each optic 1 White Light colour

Required components:



CREE ÷

LED XM-L2

FWHM 169.0 + 73.0°

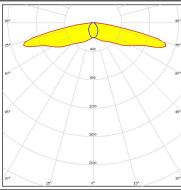
Efficiency 94 %

Peak intensity 1.100 cd/lm

LEDs/each optic 1

Light colour White

Required components:



CREE \$

LED XP-E

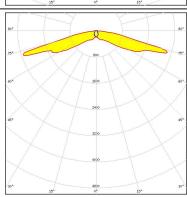
FWHM 158.0 + 73.0°

Efficiency 93 %

Peak intensity 2.300 cd/lm

LEDs/each optic 1 White Light colour

Required components:





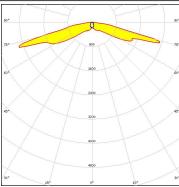
PHOTOMETRIC DATA (MEASURED):



LED XP-E2 **FWHM** 156.0 + 72.0°

Efficiency 93 % Peak intensity 2.500 cd/lm

LEDs/each optic 1 Light colour White Required components:

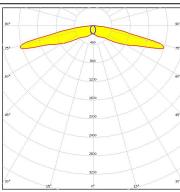


CREE 🕏

LED XP-G **FWHM** 159.0 + 79.0°

89 % Efficiency Peak intensity 1.600 cd/lm

LEDs/each optic 1 White Light colour Required components:

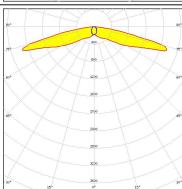


CREE ÷

LED XP-G2 **FWHM** 158.0 + 79.0°

Efficiency 94 % Peak intensity 1.800 cd/lm

LEDs/each optic 1 Light colour White Required components:



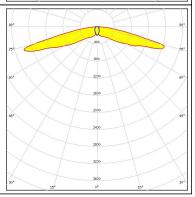
CREE \$

LED XT-E

FWHM 157.0 + 61.0°

Efficiency 89 % Peak intensity 1.800 cd/lm

LEDs/each optic 1 White Light colour Required components:





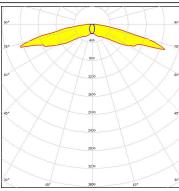
PHOTOMETRIC DATA (MEASURED):



LED H35B0 (LEMWA32)

FWHM 160.0 + 66.0° Efficiency 94 % Peak intensity 1.700 cd/lm

LEDs/each optic 1 Light colour White Required components:

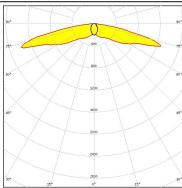


LG Innotek

LED H35C0 (LEMWA33) **FWHM** 159.0 + 72.0°

91 % Efficiency Peak intensity 1.400 cd/lm

LEDs/each optic 1 White Light colour Required components:

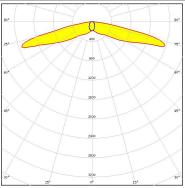


LUMILEDS

LED LUXEON A **FWHM** 156.0 + 75.0°

Efficiency 92 % Peak intensity 1.600 cd/lm

LEDs/each optic 1 Light colour White Required components:

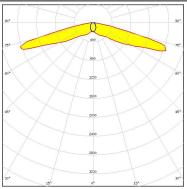


MUMILEDS

LED LUXEON R **FWHM** 153.0 + 73.0°

Efficiency 92 % Peak intensity 1.650 cd/lm

LEDs/each optic 1 White Light colour Required components:





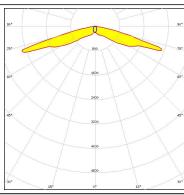
PHOTOMETRIC DATA (MEASURED):



LED LUXEON Rebel **FWHM** 152.0 + 67.0°

Efficiency 92 % Peak intensity 2.500 cd/lm

LEDs/each optic 1 Light colour White Required components:

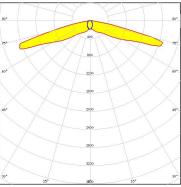


MUMILEDS

LED LUXEON Rebel ES **FWHM** 153.0 + 74.0°

90 % Efficiency Peak intensity 1.700 cd/lm

LEDs/each optic 1 Light colour White Required components:

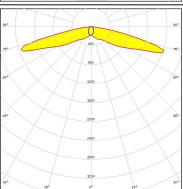


LUMILEDS

LED LUXEON T **FWHM** $155.0 + 76.0^{\circ}$

Efficiency 93 % Peak intensity 2.300 cd/lm

LEDs/each optic 1 Light colour White Required components:

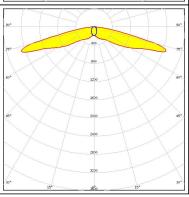


MUMILEDS

LED LUXEON TX **FWHM** 156.0 + 73.0°

Efficiency 94 % Peak intensity 1.690 cd/lm

LEDs/each optic 1 White Light colour Required components:





PHOTOMETRIC DATA (MEASURED):

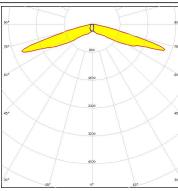


Peak intensity

LED NCSxx19A **FWHM** 151.0 + 65.0° 92 % Efficiency

2.200 cd/lm

LEDs/each optic 1 Light colour White Required components:

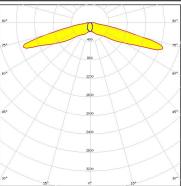


WNICHIA

LED NVSxx19A **FWHM** 153.0 + 71.0° 91 % Efficiency

Peak intensity 1.700 cd/lm

LEDs/each optic 1 Light colour White Required components:

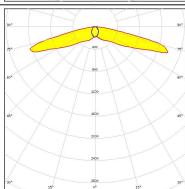


WNICHIA

LED NVSxx19B/NVSxx19C

FWHM 155.0 + 80.0° Efficiency 92 %

Peak intensity 1.400 cd/lm LEDs/each optic 1 Light colour White Required components:

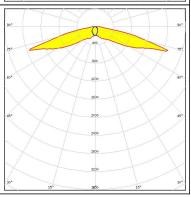


OSRAM Opto Semiconductors

LED OSLON Square EC **FWHM** 156.0 + 80.0°

Efficiency 93 % 1.700 cd/lm Peak intensity

LEDs/each optic 1 White Light colour Required components:





PHOTOMETRIC DATA (MEASURED):

OSRAM

LED

OSLON Square PC

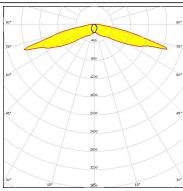
FWHM 156.0 + 83.0°

Efficiency 93 %

Peak intensity 1.700 cd/lm

Light colour White Required components:

LEDs/each optic 1



OSRAM Opto Semiconductors

LED

OSLON SSL 150

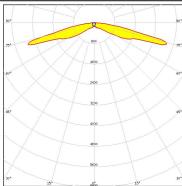
FWHM 157.0 + 86.0°

92 % Efficiency

Peak intensity 2.900 cd/lm

LEDs/each optic 1 Light colour

White Required components:



OSRAM Opto Semiconductors

LED OSLON SSL 80

FWHM $147.0 + 52.0^{\circ}$

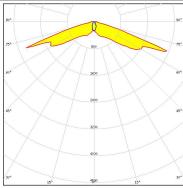
Efficiency 89 %

Peak intensity 1.900 cd/lm

LEDs/each optic 1

Light colour White

Required components:



SAMSUNG

LED LH351Z

FWHM $154.0 + 76.0^{\circ}$

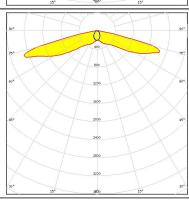
Efficiency 94 %

1.700 cd/lm Peak intensity

LEDs/each optic 1

White Light colour

Required components:





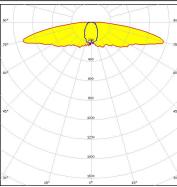
PHOTOMETRIC DATA (SIMULATED):

CREE 💠

LED XHP35 HD **FWHM** 164.0 + 68.0° Efficiency 91 %

Peak intensity 0.770 cd/lm

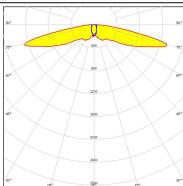
LEDs/each optic 1 Light colour White Required components:



CREE -

LED XP-L HI **FWHM** 159.0° 89 % Efficiency Peak intensity 1.300 cd/lm

LEDs/each optic 1 White Light colour Required components:



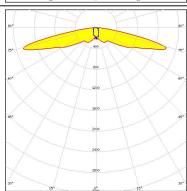
OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3

FWHM 158.0 + 70.0°

Efficiency 93 % Peak intensity 1.500 cd/lm

LEDs/each optic 1 Light colour White Required components:

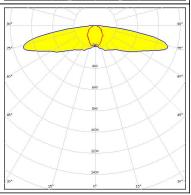


SAMSUNG

LED LH351D **FWHM** 86.0 + 164.0°

Efficiency 91 % 0.714 cd/lm Peak intensity

LEDs/each optic 1 White Light colour 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

10/10

www.ledil.com/ where_to_buy

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Ledil:

C13155_EMERALD-A