

EMERALD-A

Asymmetric beam. Assembly with installation tape.

SPECIFICATION:

Dimensions Ø 21.6 mm
Height 7.3 mm
Fastening tape, pin
ROHS compliant yes ①



MATERIALS:

ComponentTypeMaterialColourFinishEMERALD-ASingle lensPMMAclearHEIDI-TAPETapeAcrylic foamblack

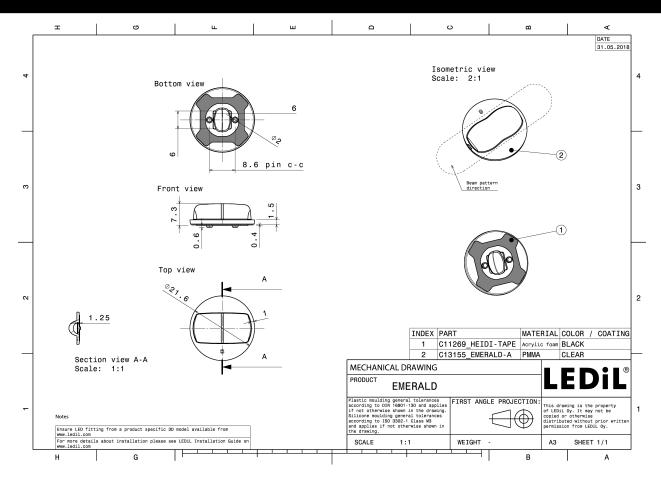
ORDERING INFORMATION:

» Box size: 480 x 280 x 300 mm

ComponentQty in boxMOQMPQBox weight (kg)CA13156_EMERALD-ASingle lens21283361124.9

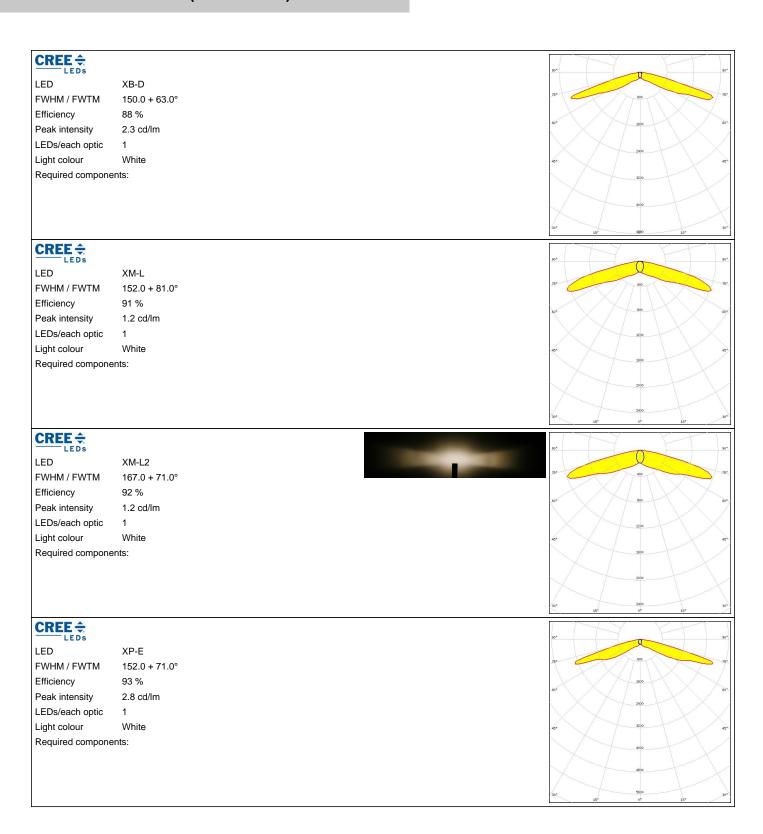


PRODUCT DATASHEET CA13156_EMERALD-A



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









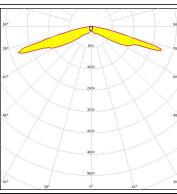
LED XP-E2 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$

 $153.0 + 70.0^{\circ}$

Efficiency 93 %

Peak intensity 2.9 cd/lm LEDs/each optic

Light colour White Required components:



CREE \$

LED

XP-G 153.0 + 92.0°

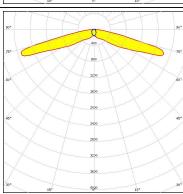
FWHM / FWTM Efficiency 88 %

Peak intensity 1.9 cd/lm

LEDs/each optic 1

White Light colour

Required components:



CREE +

LED

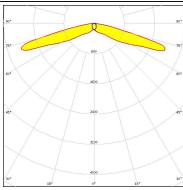
XP-G2 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ $151.0 + 75.0^{\circ}$

Efficiency 91 %

Peak intensity 2 cd/lm

LEDs/each optic Light colour White

Required components:



CREE \$

XT-E

FWHM / FWTM 150.0 + 64.0°

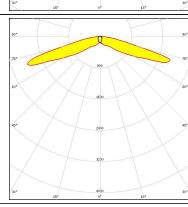
Efficiency 88 %

Peak intensity 2 cd/lm

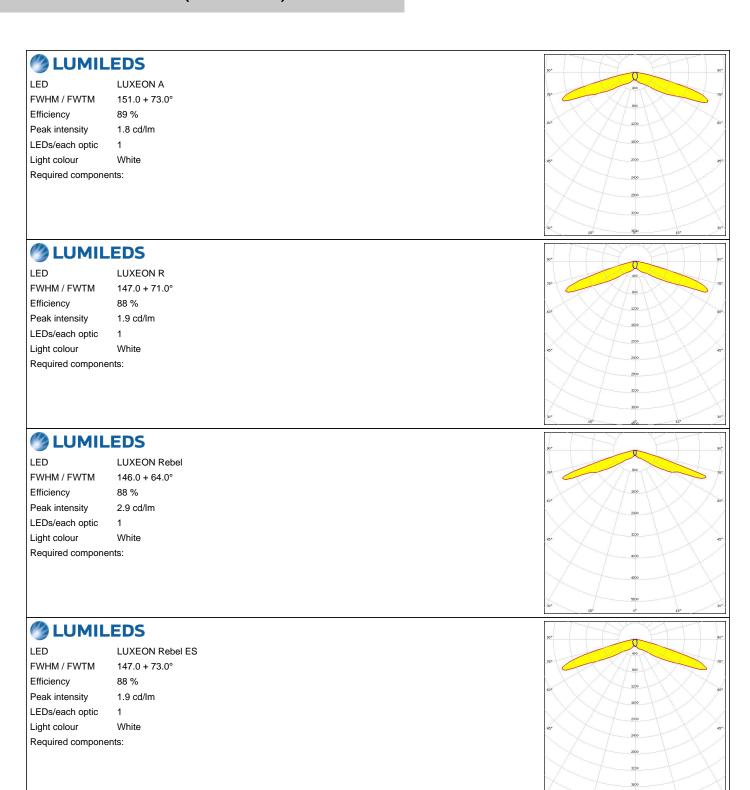
White Light colour

Required components:

LEDs/each optic





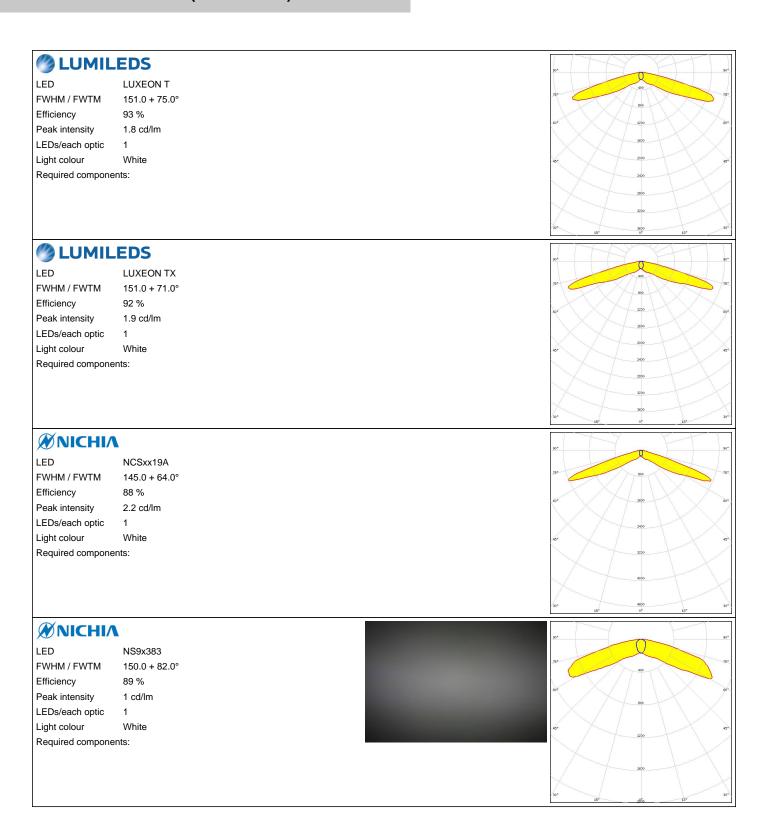


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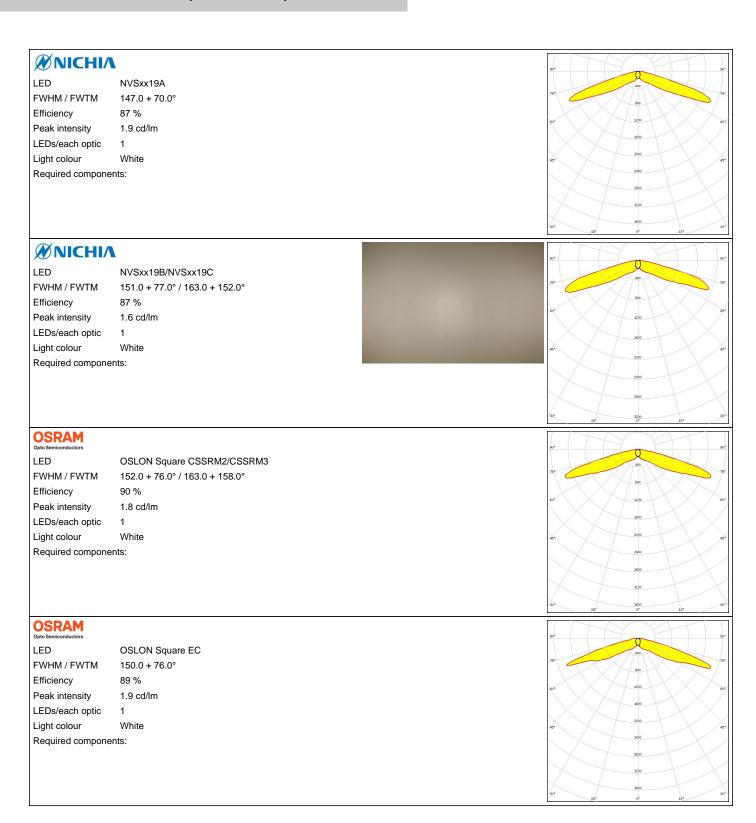
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OPTICAL RESULTS (MEASURED):







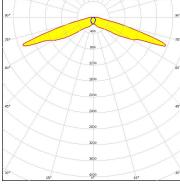


OSRAM

LED OSLON Square PC

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ $150.0 + 86.0^{\circ}$ Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic Light colour White

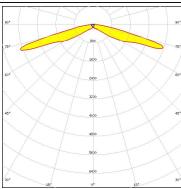
Required components:



OSRAM

LED OSLON SSL 150 FWHM / FWTM 152.0 + 99.0° Efficiency 92 %

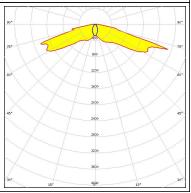
Peak intensity 2.9 cd/lm LEDs/each optic 1 White Light colour Required components:



OSRAM Opto Semiconductors

Required components:

LED OSLON SSL 80 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 148.0 + 53.0° Efficiency 89 % Peak intensity 2.3 cd/lm LEDs/each optic Light colour White





OPTICAL RESULTS (SIMULATED):

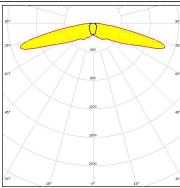
CREE &

LED XP-G3

FWHM / FWTM 157.0 + 79.0° / 171.0 + 182.0°

Efficiency 88 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:



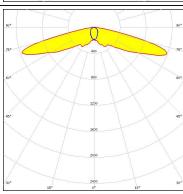
CREE \$

LED XP-G4

FWHM / FWTM 153.0 + 73.0° / 162.0 + 131.0°

Efficiency 90 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

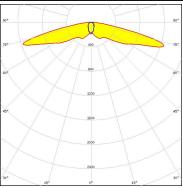


CREE \$

LED XP-L HI

FWHM / FWTM 156.0 + 64.0° / 168.0 + 166.0°

Efficiency 90 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

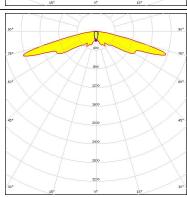


CREE &

_ED XP-F

FWHM / FWTM 153.0 + 39.0° / 165.0 + 148.0°

Efficiency 91 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



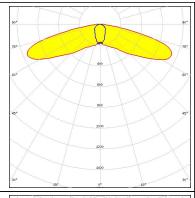


OPTICAL RESULTS (SIMULATED):



LED LUXEON 5050 Round LES

FWHM / FWTM Asymmetric
Efficiency 87 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

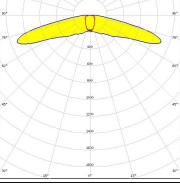


LUMILEDS

LED LUXEON V

FWHM / FWTM 64.0 + 156.0° / 176.0 + 175.0°

Efficiency 90 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

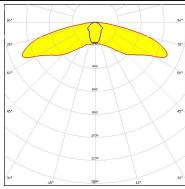


OSRAM Opto Semiconductors

LED OSCONIQ S 5050

FWHM / FWTM 154.0 + 72.0° / 168.0 + 154.0°

Efficiency 87 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

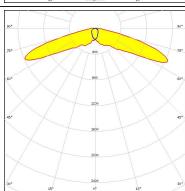




LED Z5M4

FWHM / FWTM 149.0 + 67.0° / 164.0 + 140.0°

Efficiency 89 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:





OPTICAL RESULTS (SIMULATED):



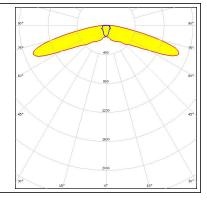
LED

Z8Y22P

FWHM / FWTM 154.6 + 110.7° / 172.0 + 180.0°

Efficiency 93 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:





PRODUCT DATASHEET CA13156_EMERALD-A

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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