



Product Model Number

CKO-ZU15-045011-9501

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

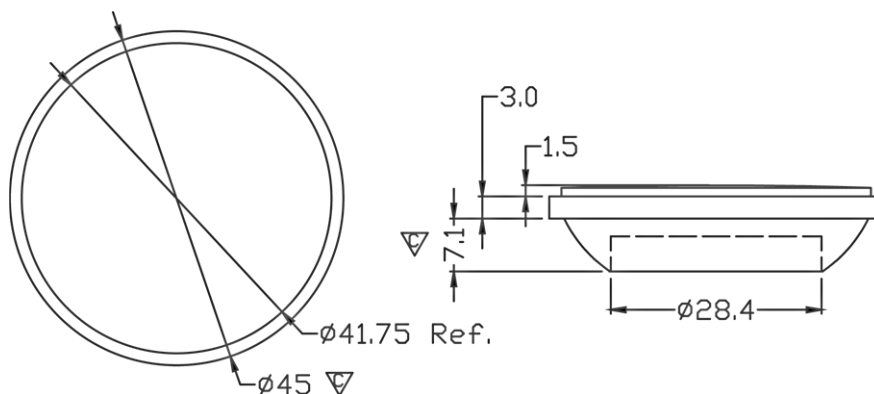


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
ZU→Multi-Angle Zooming Lens
HC→Holder for CoB LED

- C. Identity Code
- D. Lens / Fixture Size
Ex: 075026=Φ75mm / Thickness=26mm (round up)
- C. Serial Numbers

The lens datasheet is applicable for **Citizen LED**, that manufactured by Chun Kuang Optics Corp.

✓ Dimensions (mm) : Φ45 x 11.6

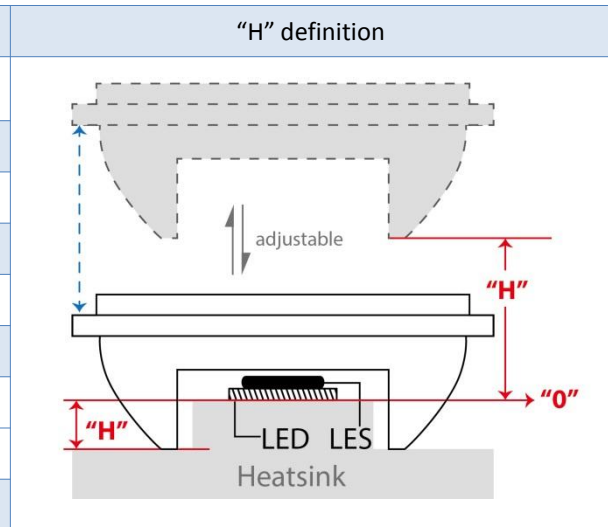


▽:Critical Dimension

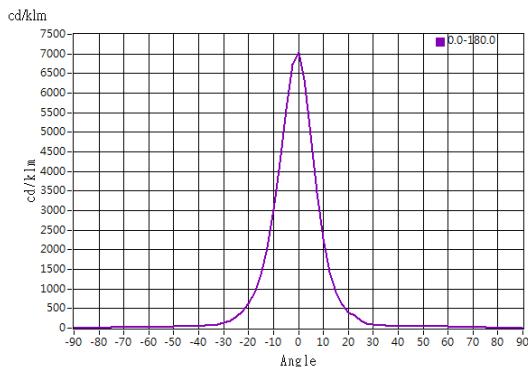


Optical Characteristics

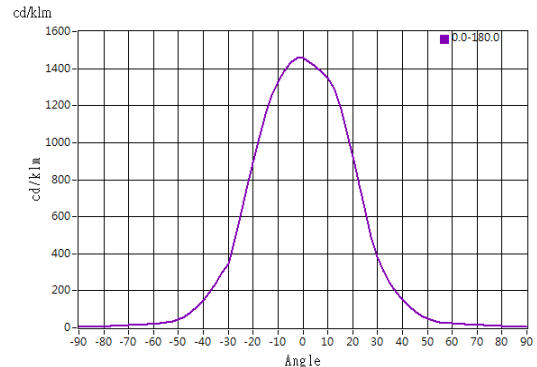
Model Number	CKO-ZU15-045011-9501
LED	CLU700
LES / LED Size	Φ 6 mm
FWHM (D50)	16°-46°
Field Angle (D10)	36°-81°
H (distance)	2.0mm~1.8mm
Dimension	Φ =45 mm, Thickness=11.6 mm
Luminous Flux	1451 lm ~ 1474 lm (16° ~ 46°) Measured @ 14.8 W
Material	PC / UL94V2



cd/klm

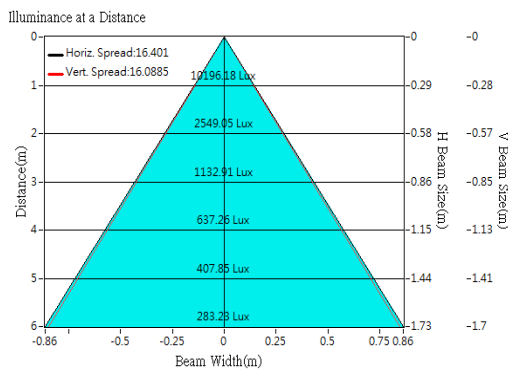


H: 2.0 mm

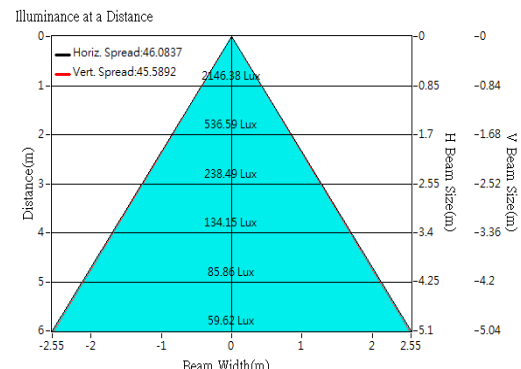


H: -1.8 mm

Illuminance At Distances



H: 2.0 mm

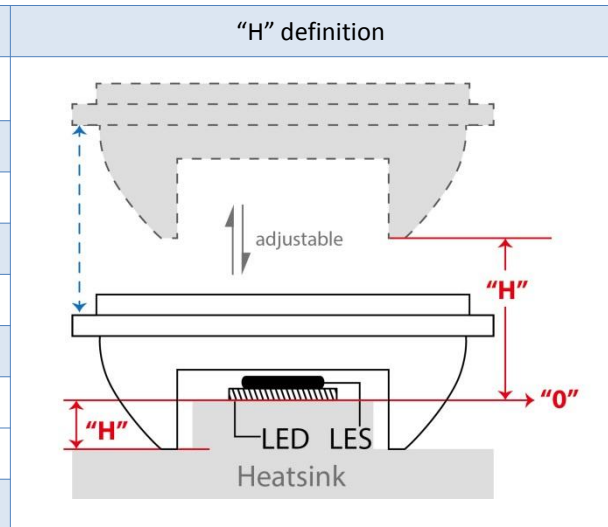


H: -1.8 mm

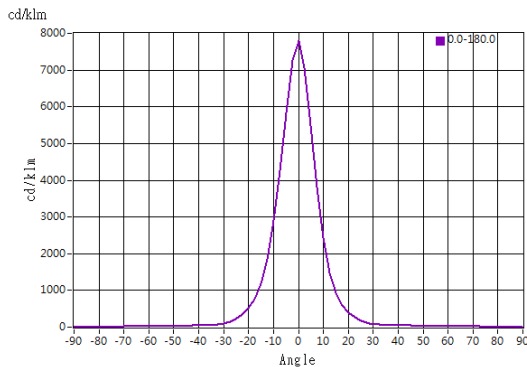


Optical Characteristics

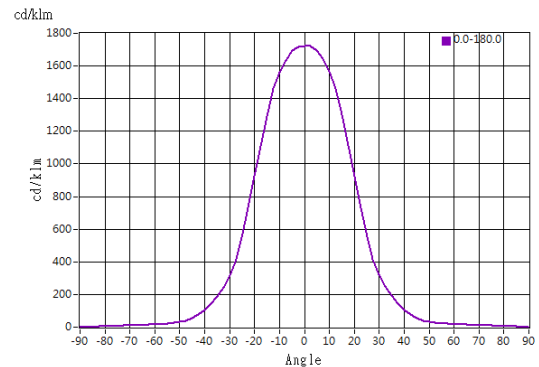
Model Number	CKO-ZU15-045011-9501
LED	CLU701
LES / LED Size	Φ 6 mm
FWHM (D50)	15°-42°
Field Angle (D10)	33°-72°
H (distance)	1.7mm~-1.6mm
Dimension	Φ =45 mm, Thickness=11.6 mm
Luminous Flux	1073 lm ~ 1085 lm (15°-42°) Measured @ 11.2 W
Material	PC / UL94V2



cd/klm

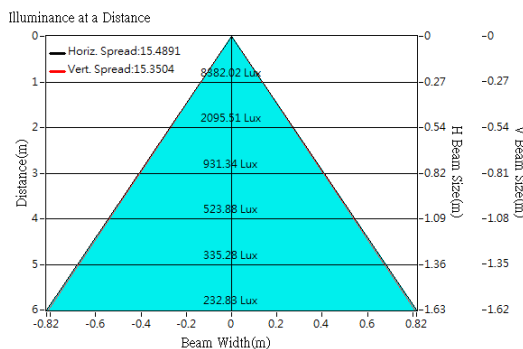


H: 1.7 mm

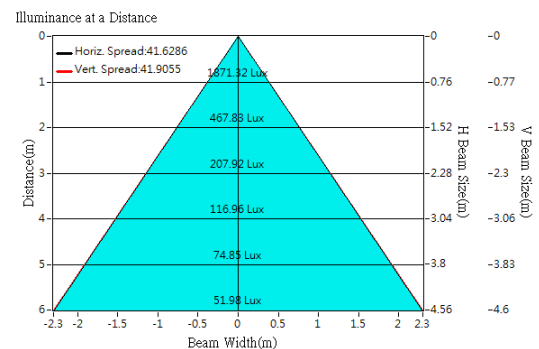


H: -1.6 mm

Illuminance At Distances



H: 1.7 mm

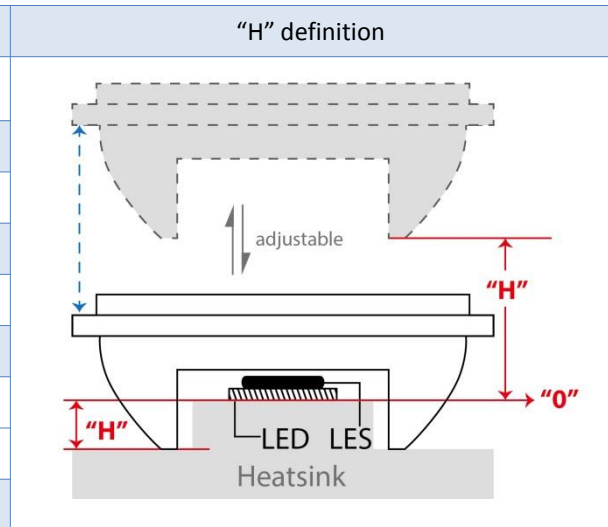


H: -1.6 mm

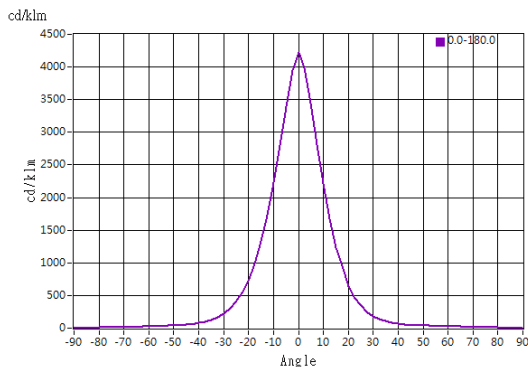


Optical Characteristics

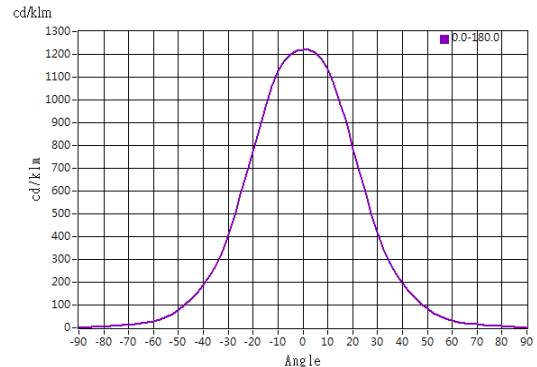
Model Number	CKO-ZU15-045011-9501
LED	CLU710
LES / LED Size	Φ 8.5 mm
FWHM (D50)	21°-49°
Field Angle (D10)	48°-91°
H (distance)	1.4mm~1.8mm
Dimension	Φ =45 mm, Thickness=11.6 mm
Luminous Flux	2822 lm ~ 2840 lm (21° ~ 49°) Measured @ 26.3 W
Material	PC / UL94V2



cd/klm

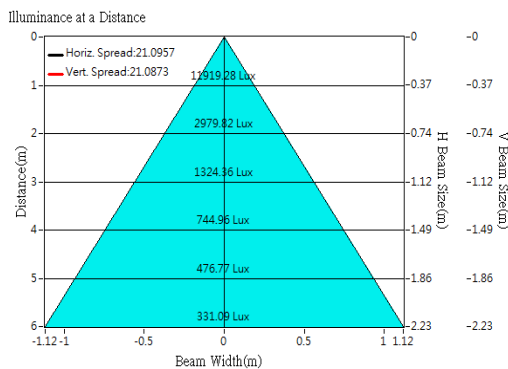


H: 1.4 mm

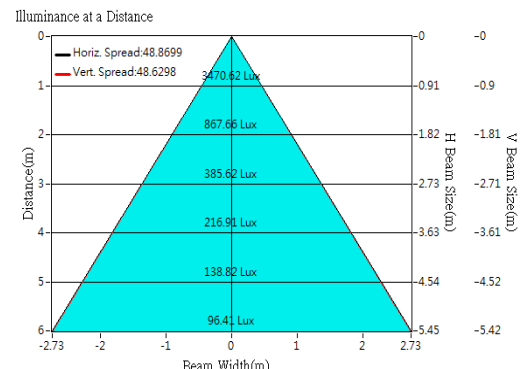


H: -1.8 mm

Illuminance At Distances



H: 1.4 mm

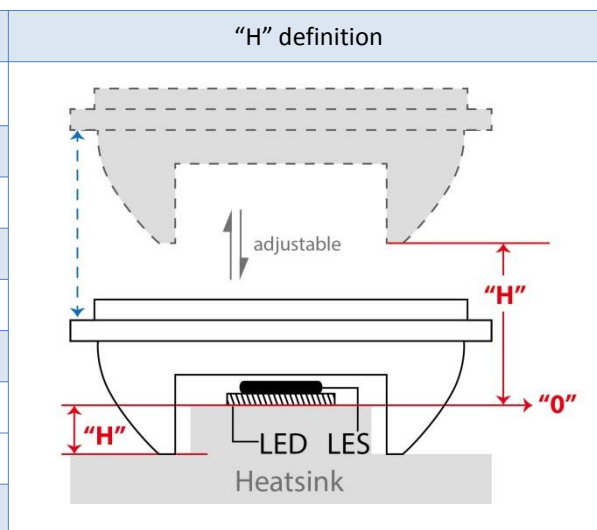


H: -1.8 mm

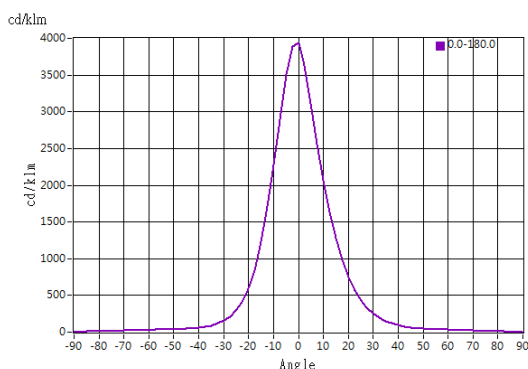


Optical Characteristics

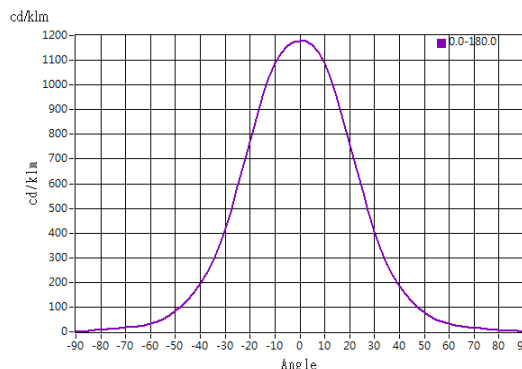
Model Number	CKO-ZU15-045011-9501
LED	CLU 711
LES / LED Size	Φ 8.5 mm
FWHM (D50)	22°-50°
Field Angle (D10)	49°-92°
H (distance)	1.7mm~1.8mm
Dimension	Φ =45 mm, Thickness=11.6 mm
Luminous Flux	3079 lm ~ 3168 lm (22° ~ 50°) Measured @ 25.7 W
Material	PC / UL94V2



cd/klm

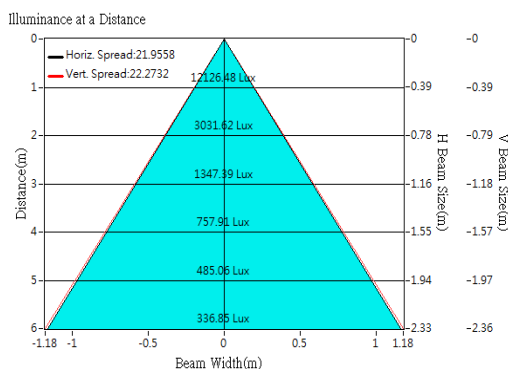


H: 1.7 mm

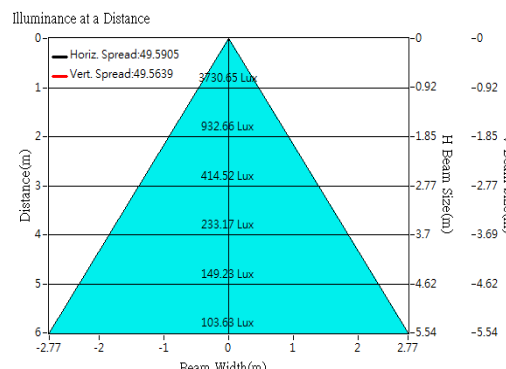


H: -1.8 mm

Illuminance At Distances



H: 1.7 mm

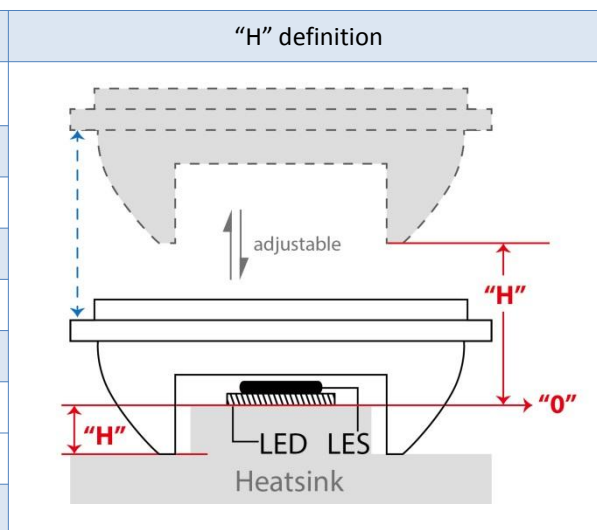


H: -1.8 mm

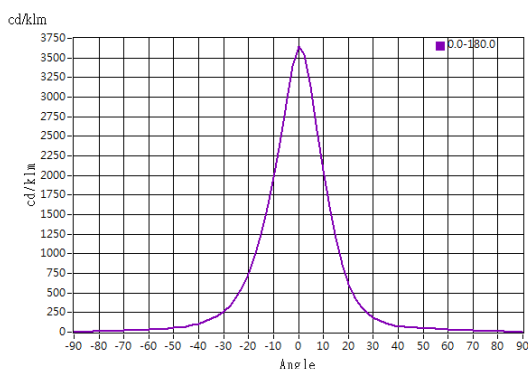


Optical Characteristics

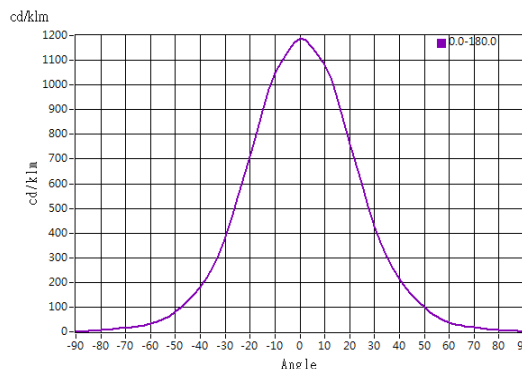
Model Number	CKO-ZU15-045011-9501
LED	CLU 024
LES / LED Size	Φ 9.8 mm
FWHM (D50)	22°-48°
Field Angle (D10)	51°-93°
H (distance)	1.5mm~1.8mm
Dimension	Φ =45 mm, Thickness=11.6 mm
Luminous Flux	1038 lm ~ 1065 lm (22° ~ 48°) Measured @ 9.5 W
Material	PC / UL94V2



cd/klm

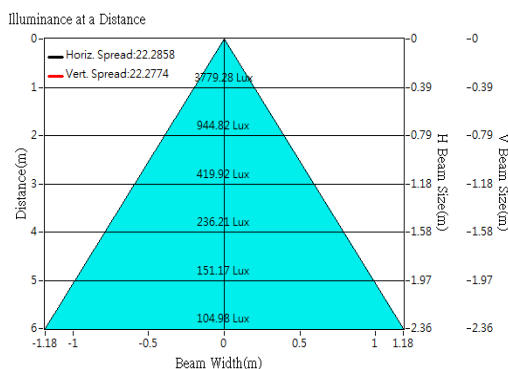


H: 1.5 mm

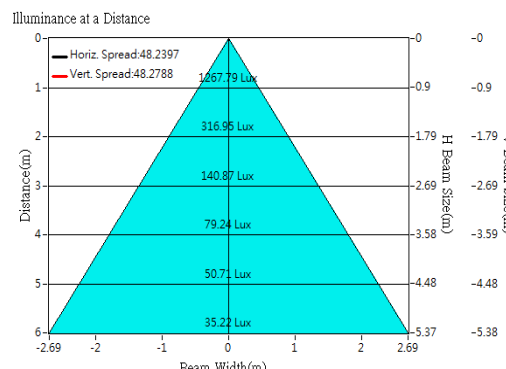


H: -1.8 mm

Illuminance At Distances



H: 1.5 mm

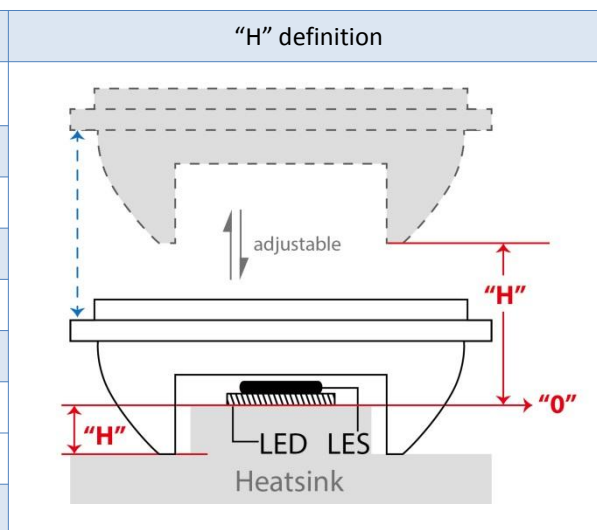


H: -1.8 mm

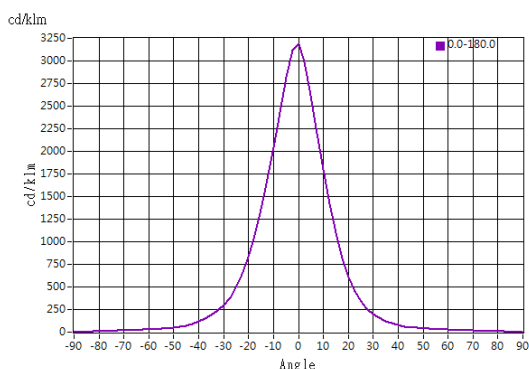


Optical Characteristics

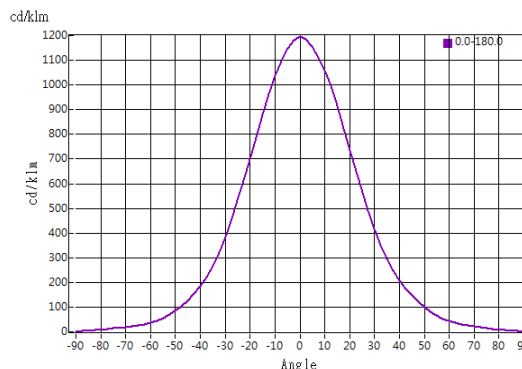
Model Number	CKO-ZU15-045011-9501
LED	CLU 026
LES / LED Size	Φ 9.8 mm
FWHM (D50)	25°-47°
Field Angle (D10)	55°-93°
H (distance)	1.2mm~1.8mm
Dimension	Φ =45 mm, Thickness=11.6 mm
Luminous Flux	1747 lm ~ 1789 lm (25° ~ 47°) Measured @ 12.4 W
Material	PC / UL94V2



cd/klm

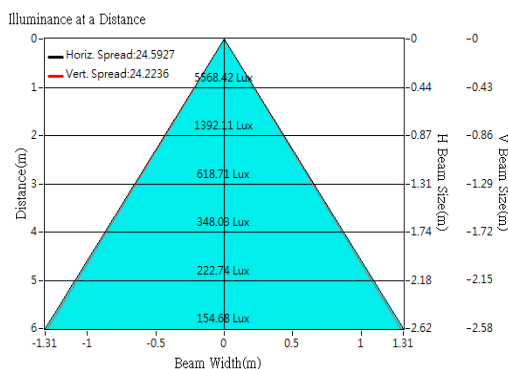


H: 1.2 mm

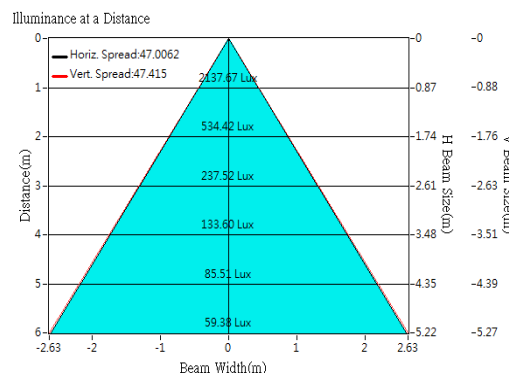


H: -1.8 mm

Illuminance At Distances



H: 1.2 mm

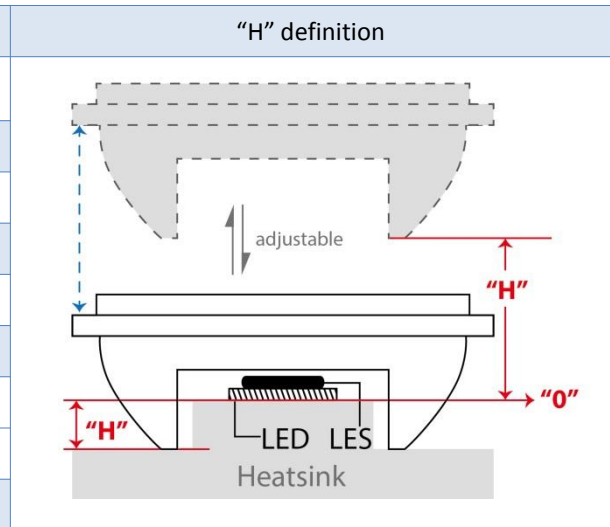


H: -1.8 mm

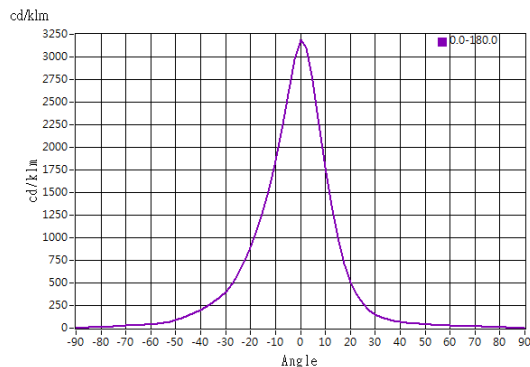


Optical Characteristics

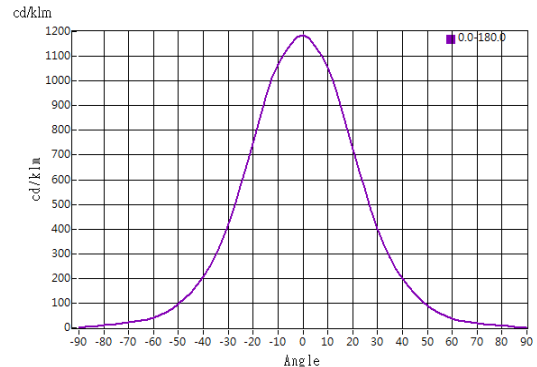
Model Number	CKO-ZU15-045011-9501
LED	CLU 028
LES / LED Size	Φ 9.8 mm
FWHM (D50)	23°-48°
Field Angle (D10)	57°-94°
H (distance)	1.2mm~1.8mm
Dimension	Φ =45 mm, Thickness=11.6 mm
Luminous Flux	1808 lm ~ 1851 lm (23° ~ 48°) Measured @ 12.7 W
Material	PC / UL94V2



cd/klm

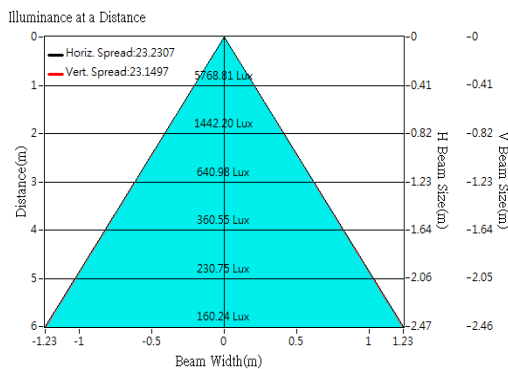


H: 1.2 mm

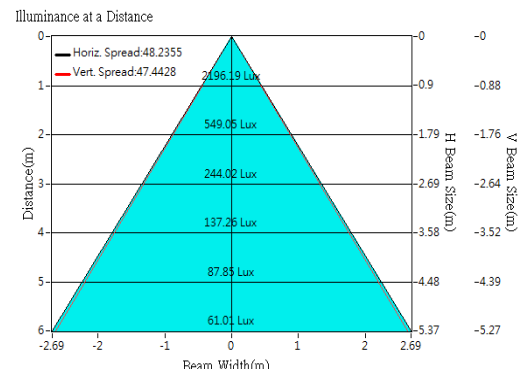


H: -1.8 mm

Illuminance At Distances



H: 1.2 mm

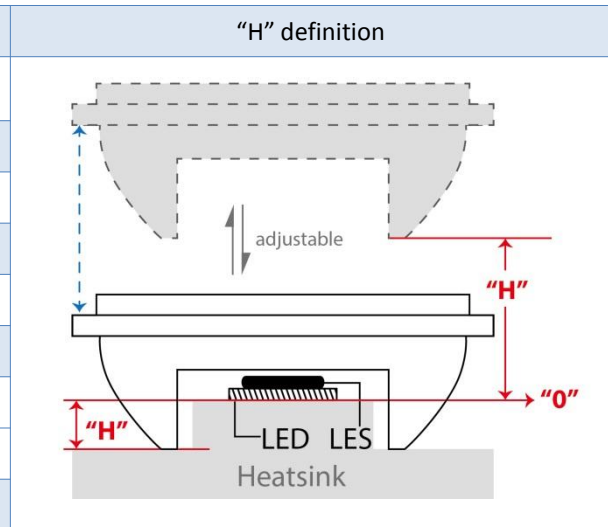


H: -1.8 mm

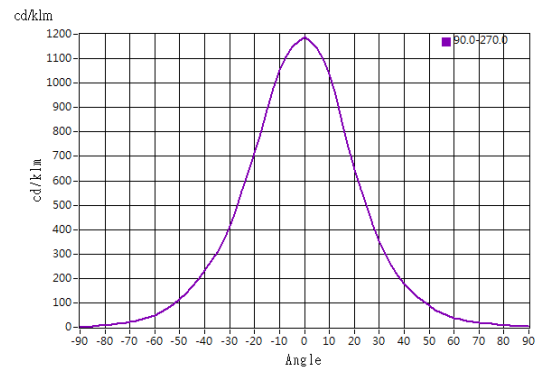
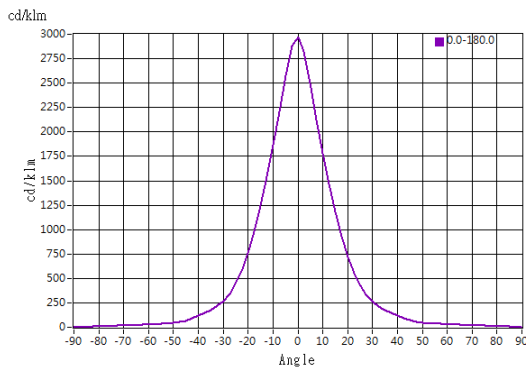


Optical Characteristics

Model Number	CKO-ZU15-045011-9501
LED	CLU 720
LES / LED Size	Φ 11 mm
FWHM (D50)	25°-46°
Field Angle (D10)	58°-96°
H (distance)	1.5mm~-1.6mm
Dimension	Φ =45 mm, Thickness=11.6 mm
Luminous Flux	3749 lm ~ 3640 lm (25°-46°) Measured @ 39 W
Material	PC / UL94V2



cd/klm



Illuminance At Distances

