



## Product Model Number

CKO-ZU16-085019-8501

### ✓ Model Number Definitions

**CKO-XXXX-XXXXXX-XXXX**

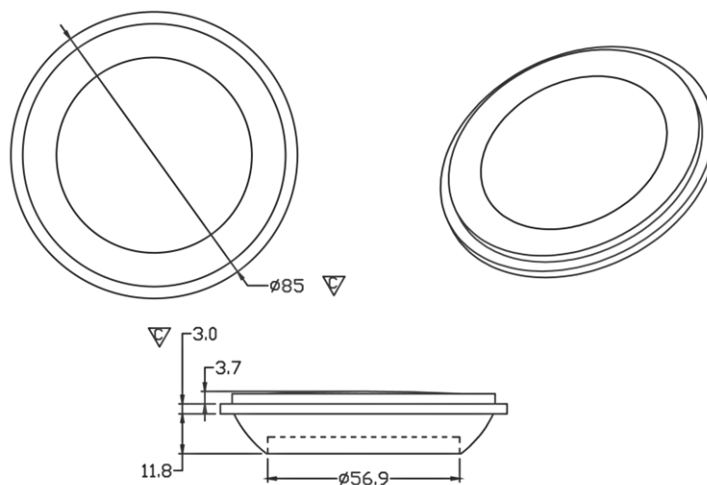


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation  
Ex:  
CH→CoB High Intensity  
CC→CoB Compact  
ZU→Multi-Angle Zooming Lens  
HC→Holder for CoB LED

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

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

### ✓ Dimensions (mm) : Φ85 x 18.5



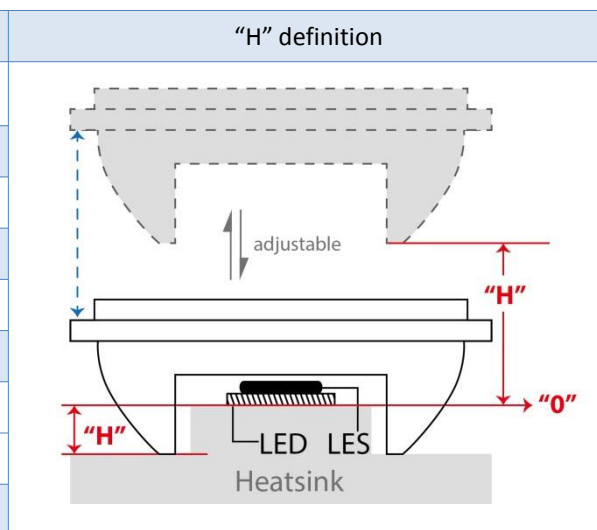
▽:Critical Dimension



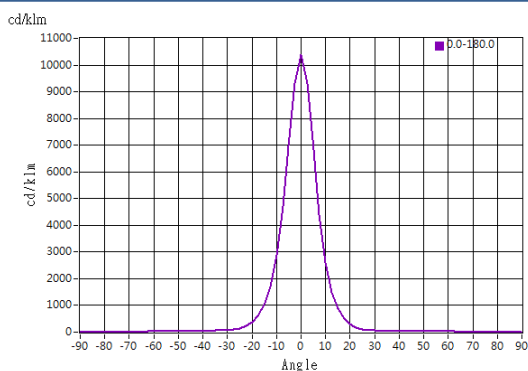


## Optical Characteristics

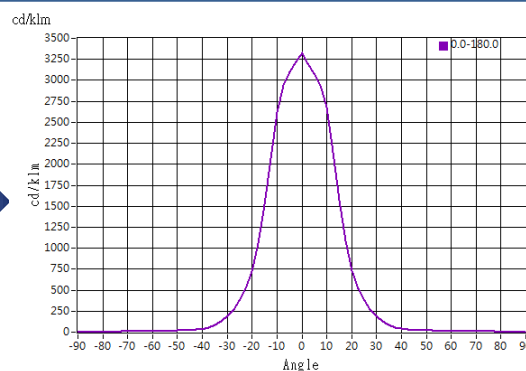
Model Number	CKO-ZU16-085019-8501
LED	<b>CXA1507</b>
LES / LED Size	Φ 9 mm
FWHM (D50)	13°-29°
Field Angle (D10)	29°-52°
H (distance)	6.5mm~ +0.5mm
Dimension	Φ =75 mm, Thickness=16.5 mm
Luminous Flux	760 lm ~ 786 lm (13° ~ 29°) Measured @ 7 W
Material	PC / UL94V2



## cd/klm

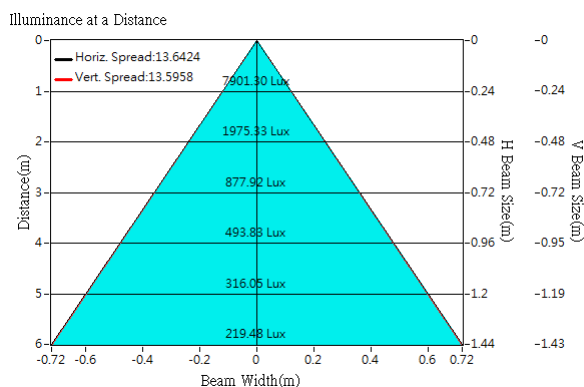


**H: 6.5 mm**

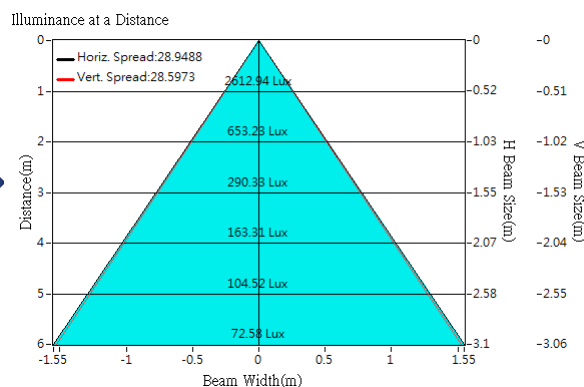


**H: +0.5 mm**

## Illuminance At Distances



**H: 6.5 mm**

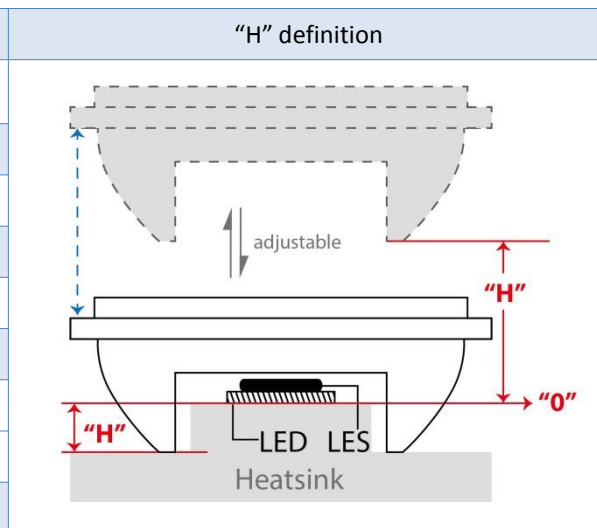


**H: +0.5 mm**

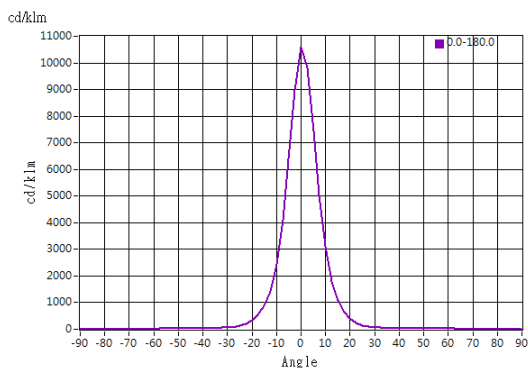


## Optical Characteristics

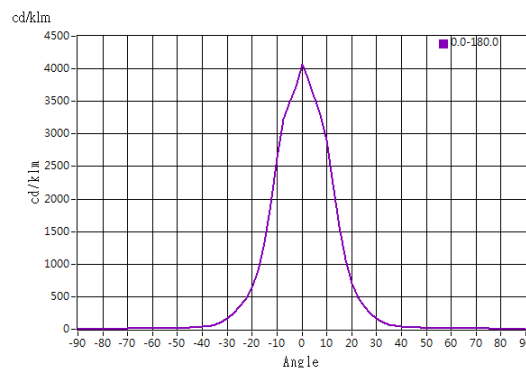
Model Number	CKO-ZU16-085019-8501
LED	<b>CXB1507</b>
LES / LED Size	Φ 9 mm
FWHM (D50)	13°-25°
Field Angle (D10)	29°-48°
H (distance)	6.0mm~ +1.5mm
Dimension	Φ =75 mm, Thickness=16.5 mm
Luminous Flux	856 lm ~ 880 lm (13° ~ 25°) Measured @ 7 W
Material	PC / UL94V2



## cd/klm

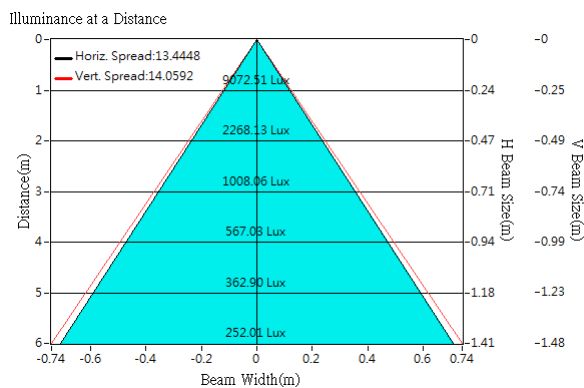


**H: 6.5 mm**

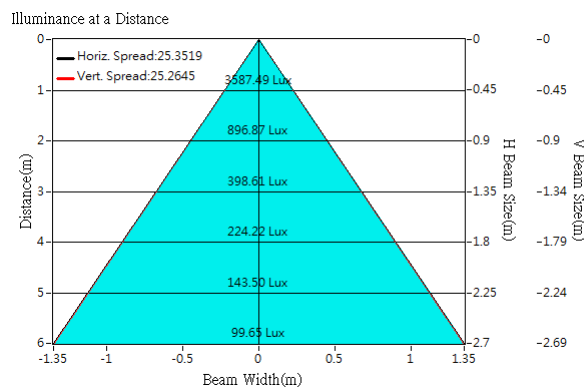


**H: +1.5 mm**

## Illuminance At Distances



**H: 6.5 mm**

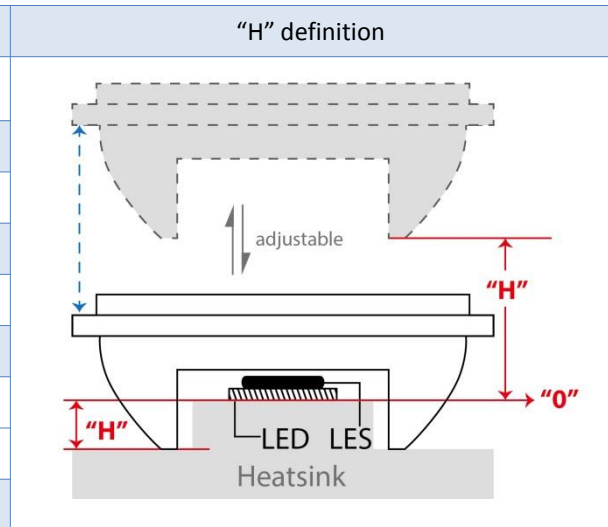


**H: +1.5 mm**

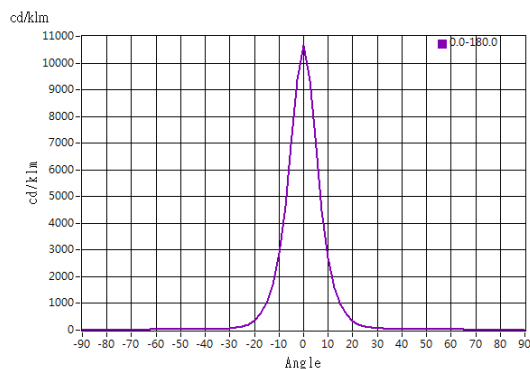


## Optical Characteristics

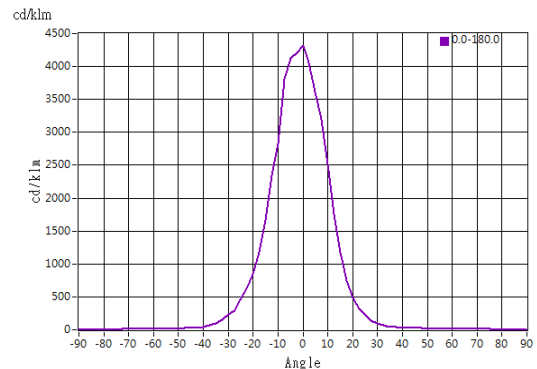
Model Number	CKO-ZU16-085019-8501
LED	<b>CXA1520</b>
LES / LED Size	Φ 9 mm
FWHM (D50)	13°-24°
Field Angle (D10)	29°-46°
H (distance)	5.4mm~0.8mm
Dimension	Φ =85 mm, Thickness=18.5 mm
Luminous Flux	1721 lm ~ 1743 lm (13° ~ 24°) Measured @ 17.9 W
Material	PC / UL94V2



## cd/klm

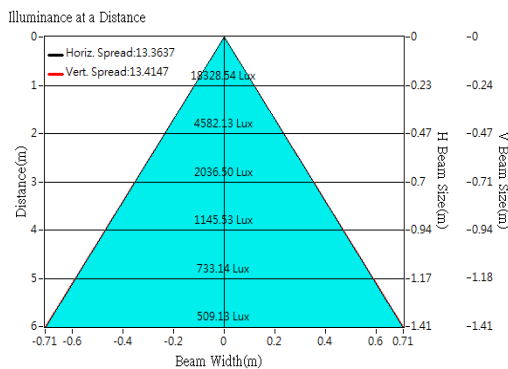


**H: 5.4 mm**

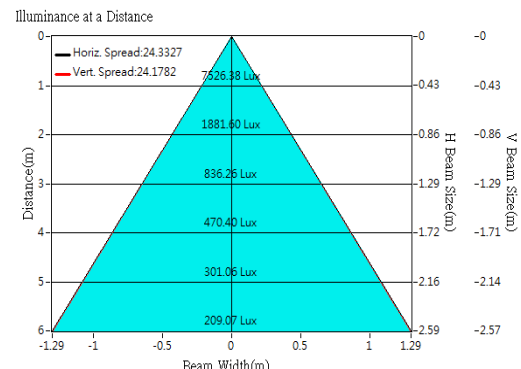


**H: 0.8 mm**

## Illuminance At Distances



**H: 5.4 mm**

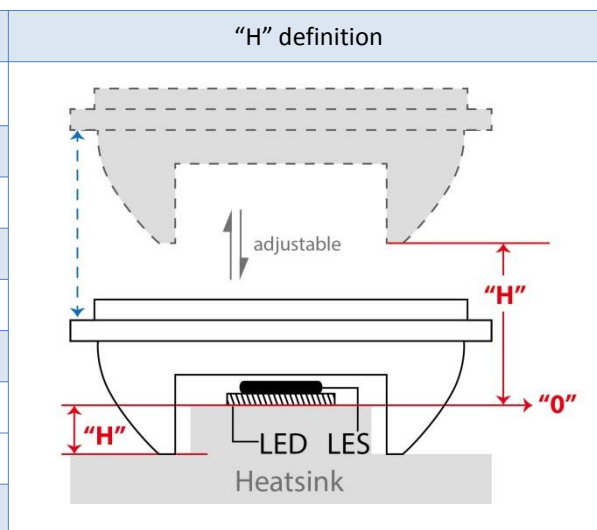


**H: 0.8 mm**

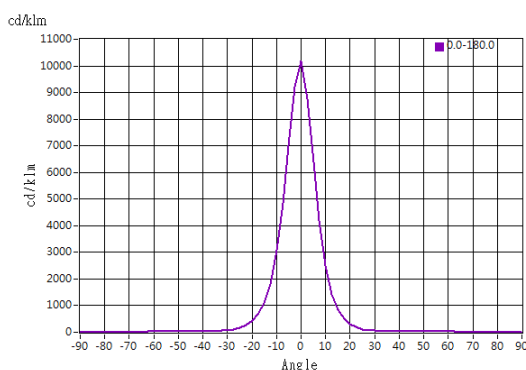


## Optical Characteristics

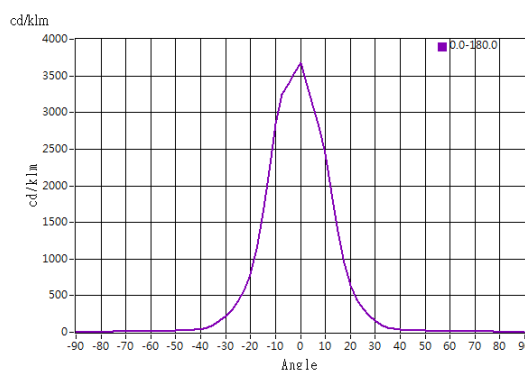
Model Number	CKO-ZU16-085019-8501
LED	<b>CMA1516</b>
LES / LED Size	Φ 9 mm
FWHM (D50)	13°-27°
Field Angle (D10)	30°-50°
H (distance)	5.5mm~ +1.0mm
Dimension	Φ =75 mm, Thickness=16.5 mm
Luminous Flux	1958 lm ~ 2008 lm (13°-27°) Measured @ 16 W
Material	PC / UL94V2



## cd/klm

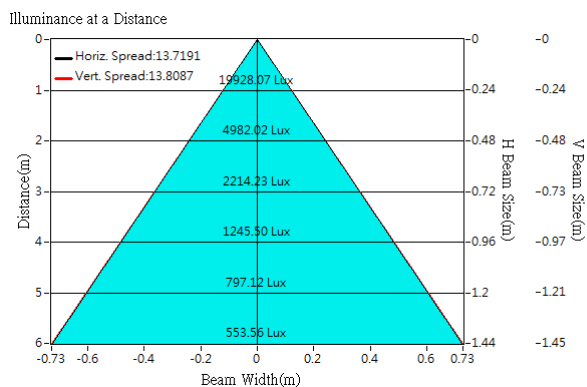


**H: 5.5 mm**

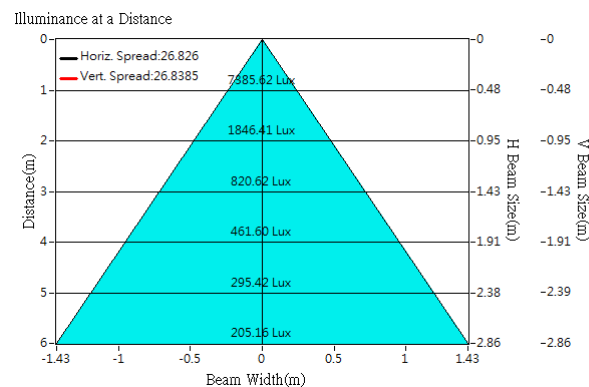


**H: +1.0 mm**

## Illuminance At Distances



**H: 5.5 mm**

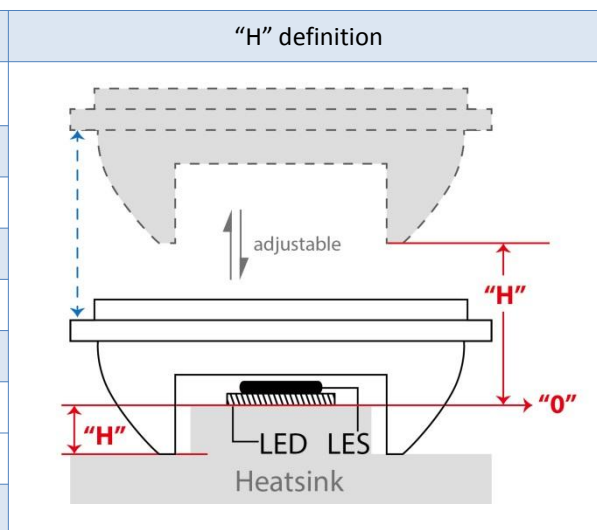


**H: +1.0 mm**

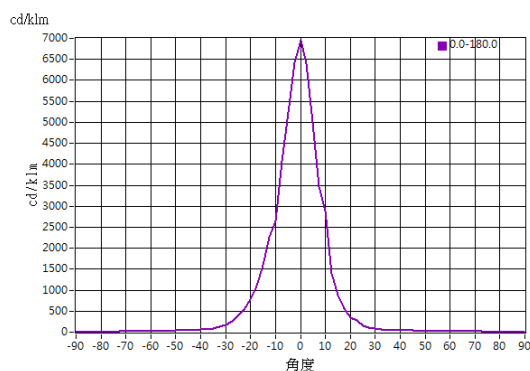


## Optical Characteristics

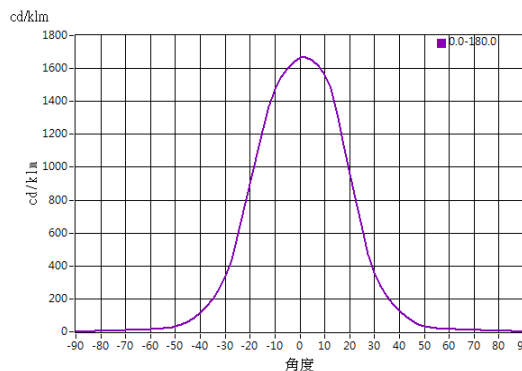
Model Number	CKO-ZU16-085019-8501
LED	<b>CXA1816</b>
LES / LED Size	Φ 12 mm
FWHM (D50)	16°-43°
Field Angle (D10)	37°-74°
H (distance)	5.4mm~-1mm
Dimension	Φ =85 mm, Thickness=18.5 mm
Luminous Flux	1731 lm ~ 1785 lm (16° ~ 43°) Measured @ 16.8 W
Material	PC / UL94V2



## cd/klm

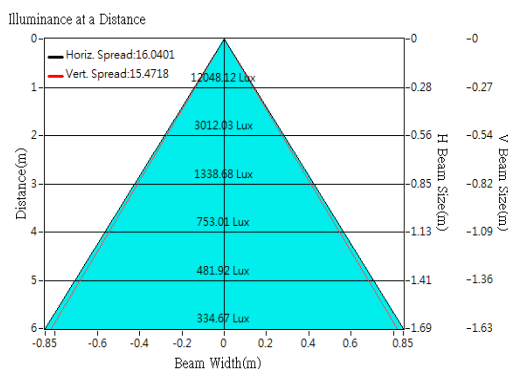


H: 5.4 mm

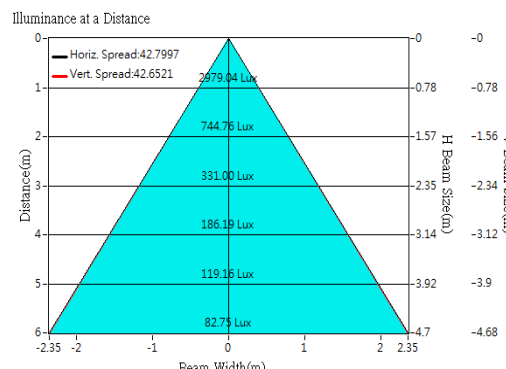


H: -1.0 mm

## Illuminance At Distances



H: 5.4 mm

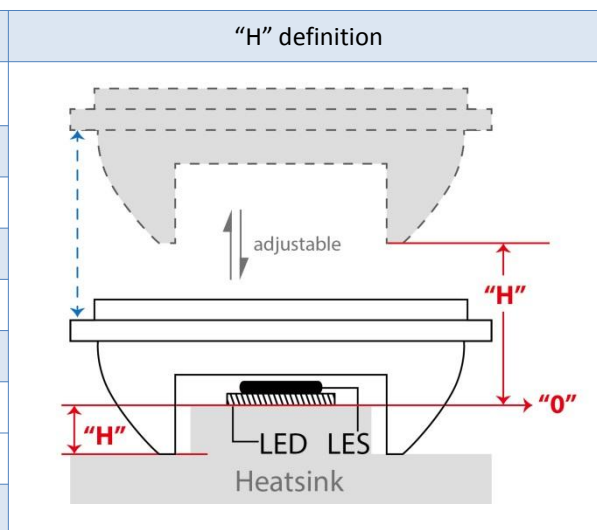


H: -1.0 mm

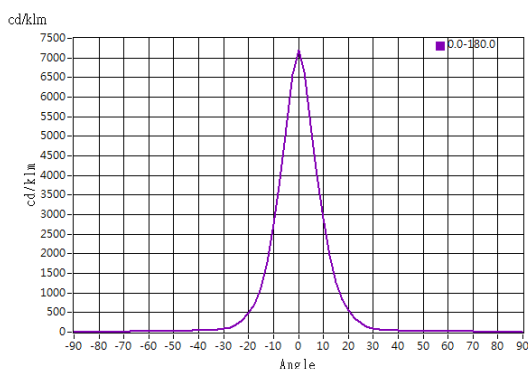


## Optical Characteristics

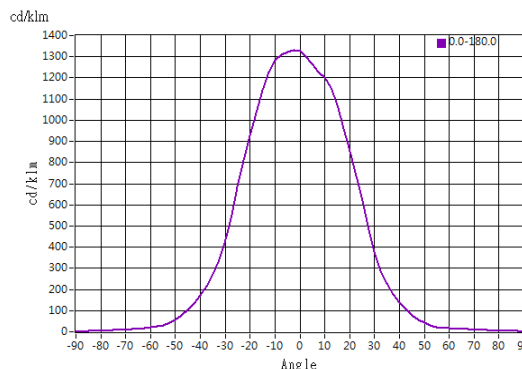
Model Number	CKO-ZU16-085019-8501
LED	<b>CXB1816</b>
LES / LED Size	Φ 12 mm
FWHM (D50)	16°-49°
Field Angle (D10)	36°-83°
H (distance)	5mm~2mm
Dimension	Φ =85 mm, Thickness=18.5 mm
Luminous Flux	1924 lm ~ 1910 lm (16° ~ 49°) Measured @ 15.7 W
Material	PC / UL94V2



## cd/klm

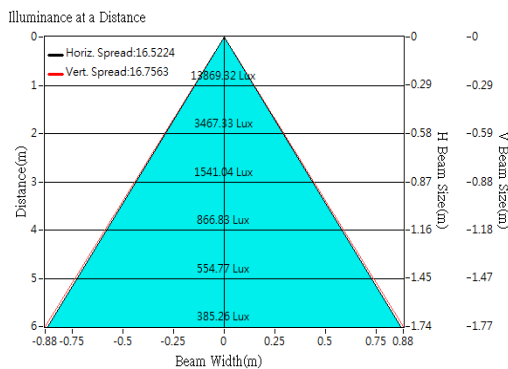


H: 5.0 mm

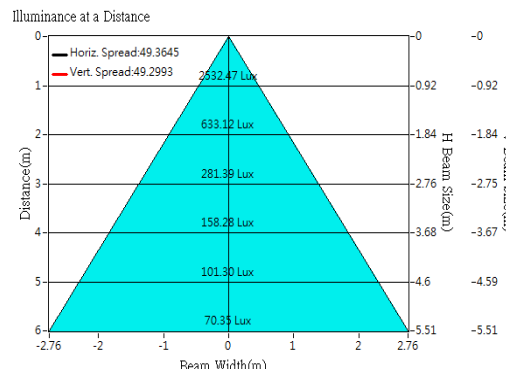


H: -2.0 mm

## Illuminance At Distances



H: 5.0 mm

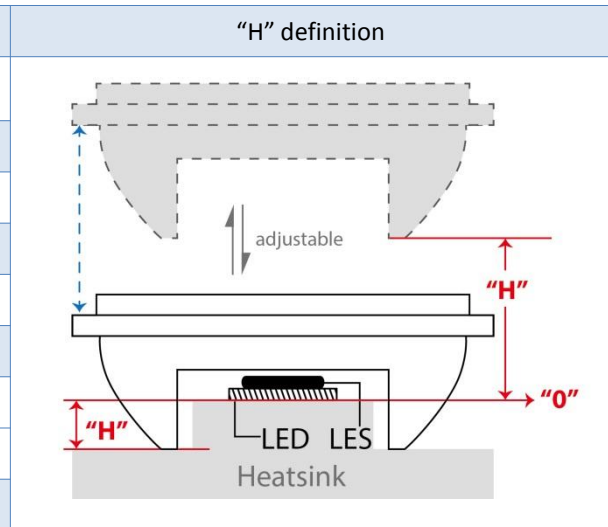


H: -2.0 mm

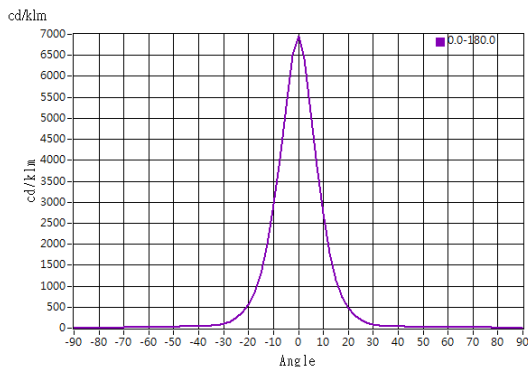


## Optical Characteristics

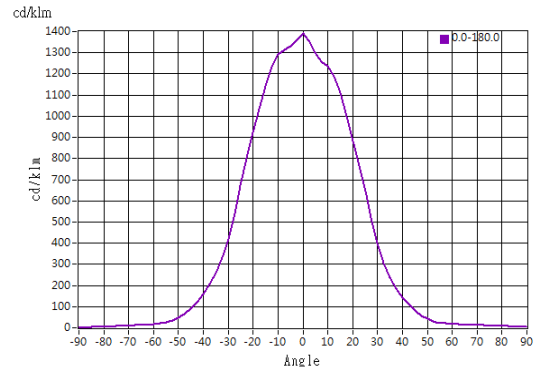
Model Number	CKO-ZU16-085019-8501
LED	<b>CXA1820</b>
LES / LED Size	Φ 12 mm
FWHM (D50)	17°-48°
Field Angle (D10)	37°-80°
H (distance)	4.6mm~2.0mm
Dimension	Φ =85 mm, Thickness=18.5 mm
Luminous Flux	2025 lm ~ 2041 lm (17° ~ 48°) Measured @ 20.4 W
Material	PC / UL94V2



## cd/klm

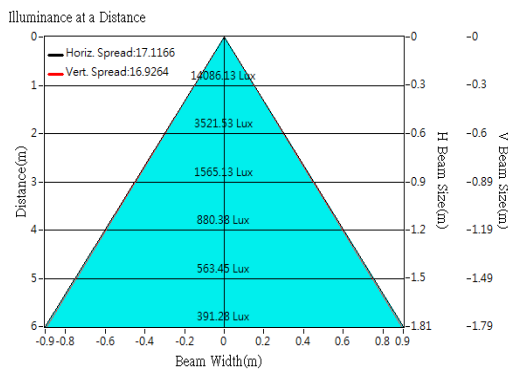


**H: 4.6 mm**

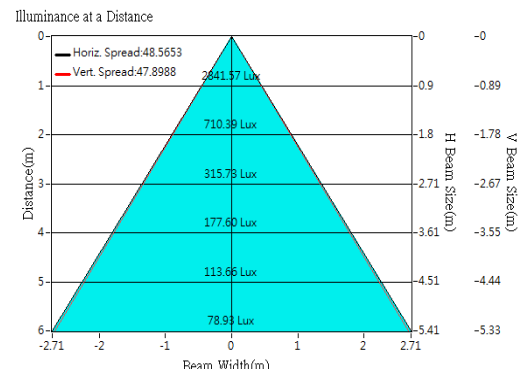


**H: -2.0 mm**

## Illuminance At Distances



**H: 4.6 mm**

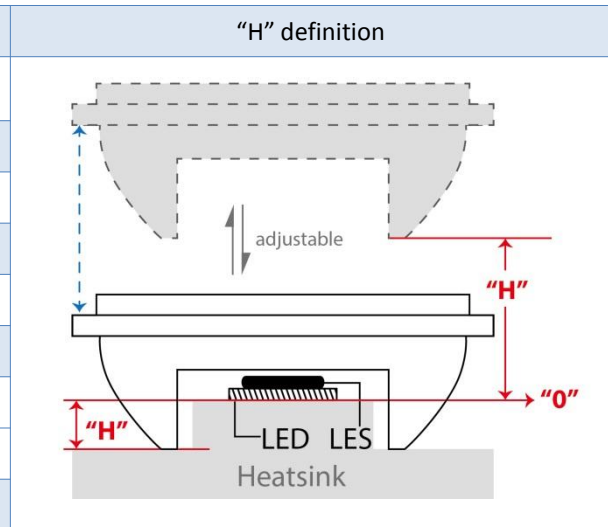


**H: -2.0 mm**

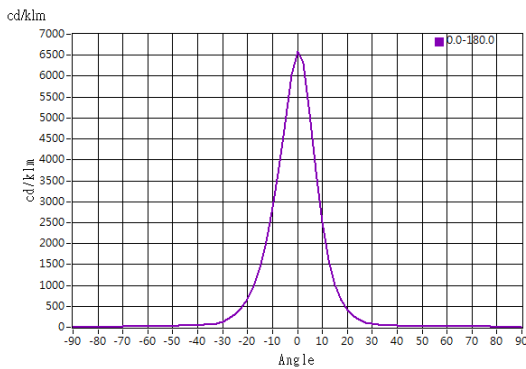


## Optical Characteristics

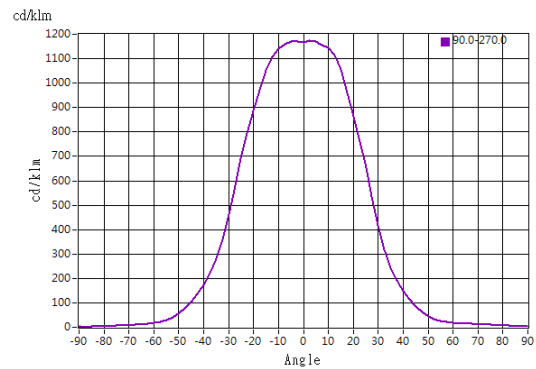
Model Number	CKO-ZU16-085019-8501
LED	<b>CXB1820</b>
LES / LED Size	Φ 12 mm
FWHM (D50)	17°-54°
Field Angle (D10)	37°-86°
H (distance)	5.5mm~2.6mm
Dimension	Φ =85 mm, Thickness=18.5 mm
Luminous Flux	2444 lm ~ 2378 lm (17° ~54°) Measured @ 20 W
Material	PC / UL94V2



## cd/klm

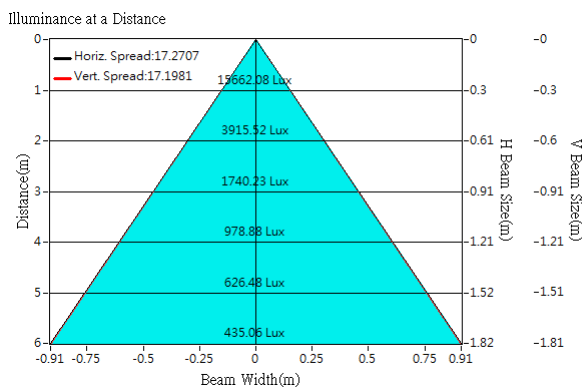


**H: 5.5 mm**

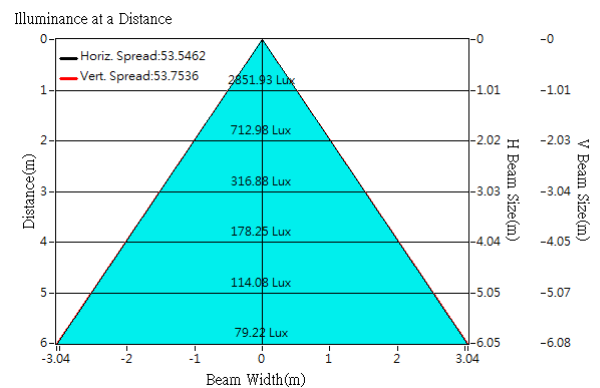


**H: -2.6 mm**

## Illuminance At Distances



**H: 5.5 mm**

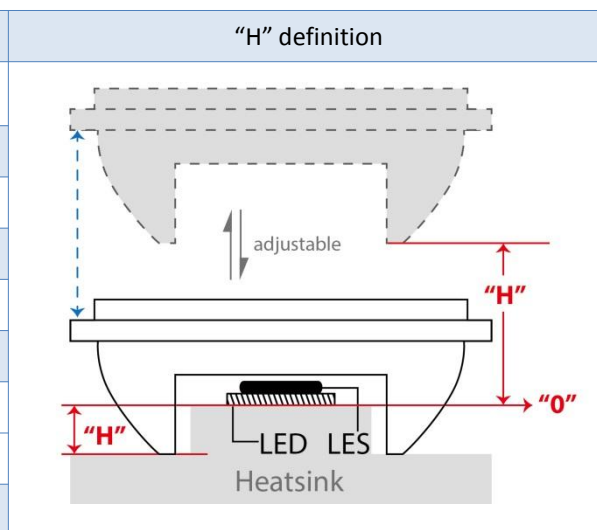


**H: -2.6 mm**

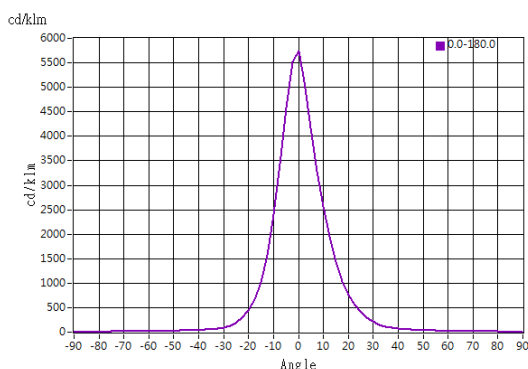


## Optical Characteristics

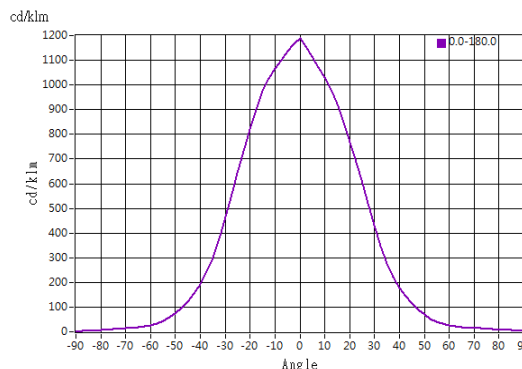
Model Number	CKO-ZU16-085019-8501
LED	<b>CXA1830</b>
LES / LED Size	Φ 14 mm
FWHM (D50)	17°-52°
Field Angle (D10)	41°-90°
H (distance)	5mm~2.6mm
Dimension	Φ =85 mm, Thickness=18.5 mm
Luminous Flux	2792 lm ~ 2866 lm (17° ~ 52°) Measured @ 29.4 W
Material	PC / UL94V2



## cd/klm

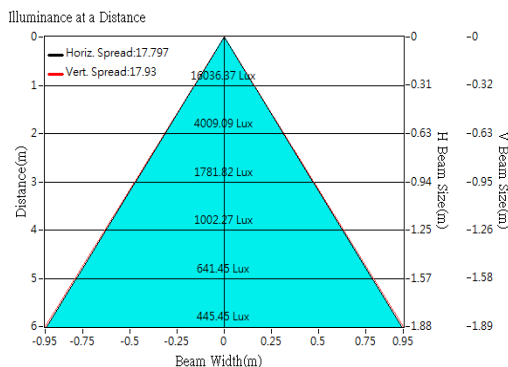


**H: 5.0 mm**

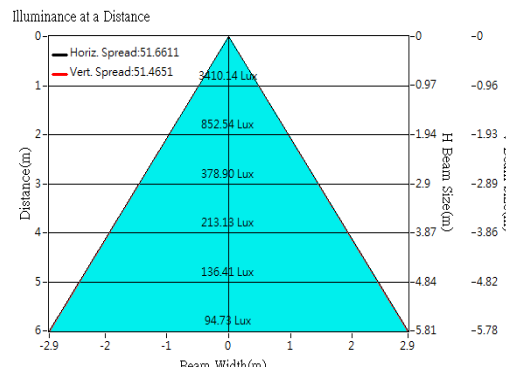


**H: -2.6 mm**

## Illuminance At Distances



**H: 5.0 mm**

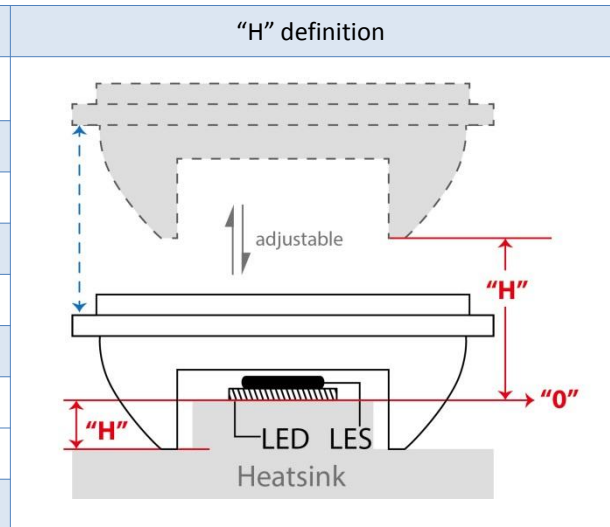


**H: -2.6 mm**

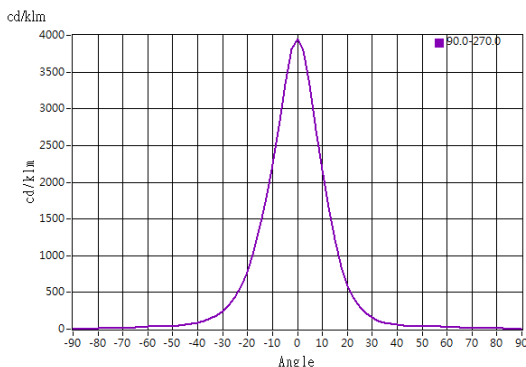


## Optical Characteristics

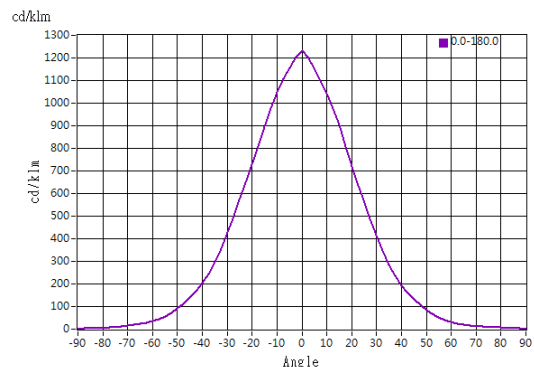
Model Number	CKO-ZU16-085019-8501
LED	<b>CXA2520</b>
LES / LED Size	Φ 19 mm
FWHM (D50)	22°-47°
Field Angle (D10)	49°-92°
H (distance)	5mm~2.6mm
Dimension	Φ =75 mm, Thickness=16.5 mm
Luminous Flux	1906 lm ~ 1889 lm (22° ~ 47°) Measured @ 20 W
Material	PC / UL94V2



## cd/klm

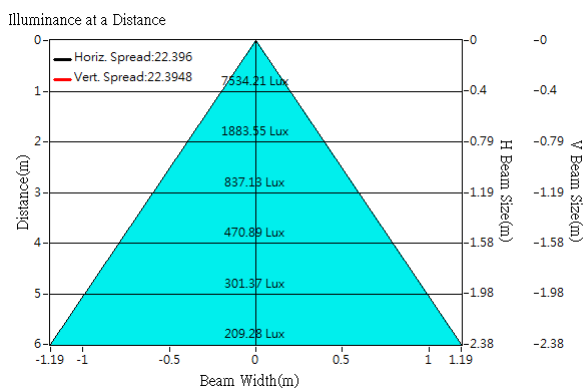


**H: 5 mm**

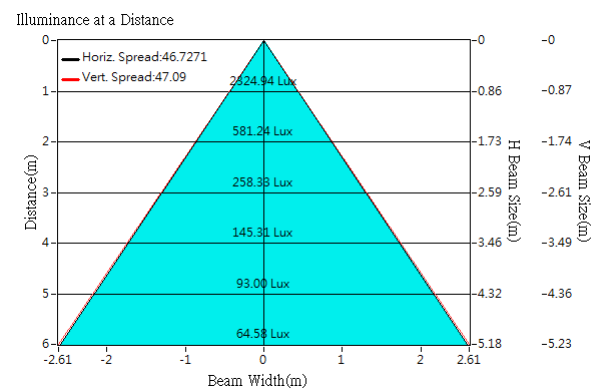


**H: -2.6 mm**

## Illuminance At Distances



**H: 5 mm**

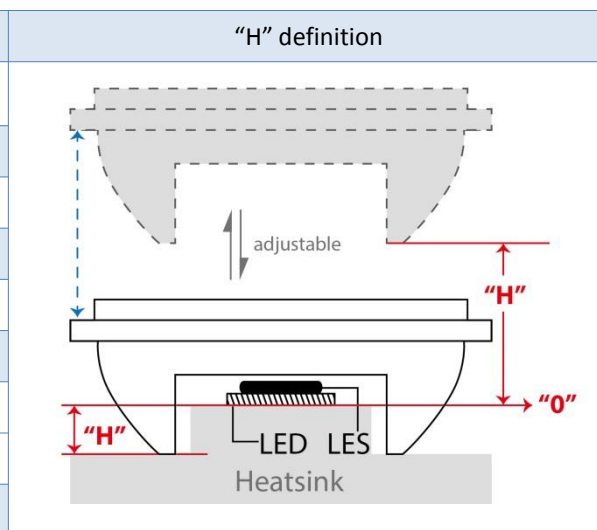


**H: -2.6 mm**

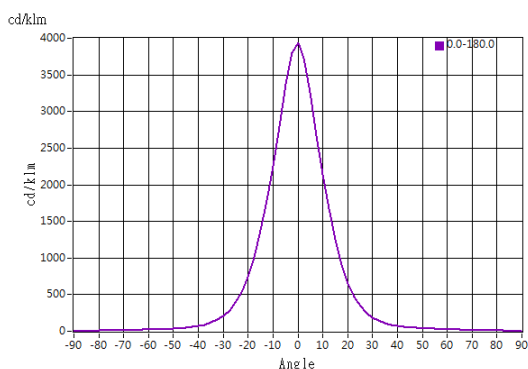


## Optical Characteristics

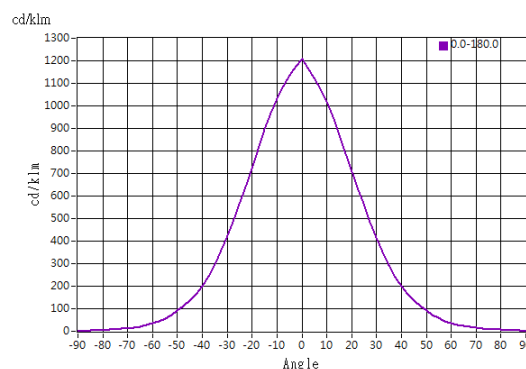
Model Number	CKO-ZU16-085019-8501
LED	<b>CXB2530</b>
LES / LED Size	Φ 19 mm
FWHM (D50)	22°-47°
Field Angle (D10)	49°-93°
H (distance)	4.5mm~-2.6mm
Dimension	Φ =75 mm, Thickness=16.5 mm
Luminous Flux	3337 lm ~ 3468 lm (22°-47°) Measured @ 29 W
Material	PC / UL94V2



## cd/klm

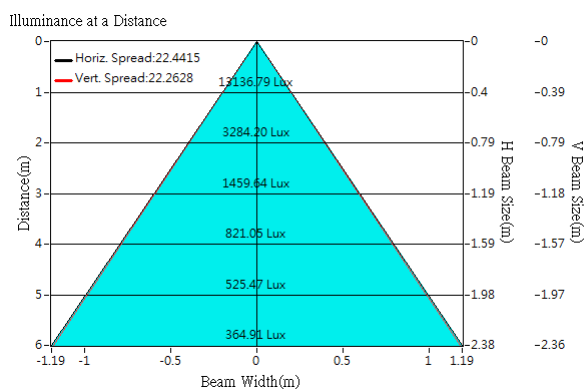


**H: 4.5 mm**

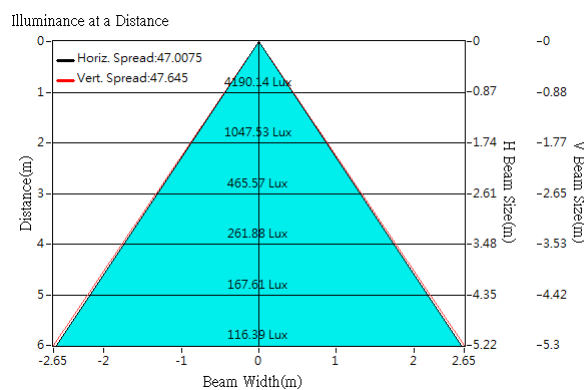


**H: -2.6 mm**

## Illuminance At Distances



**H: 4.5 mm**

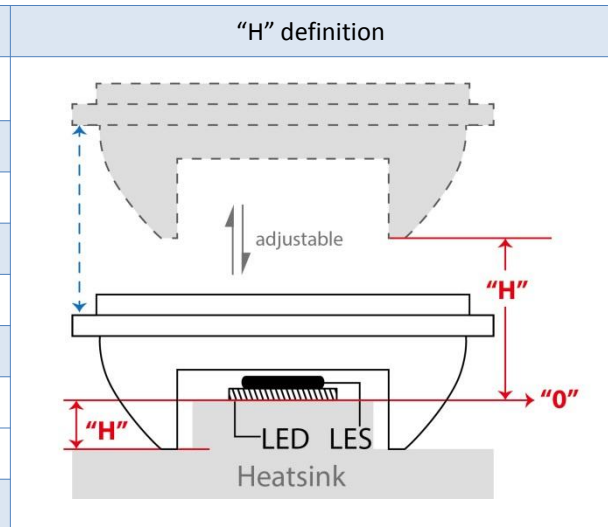


**H: -2.6 mm**

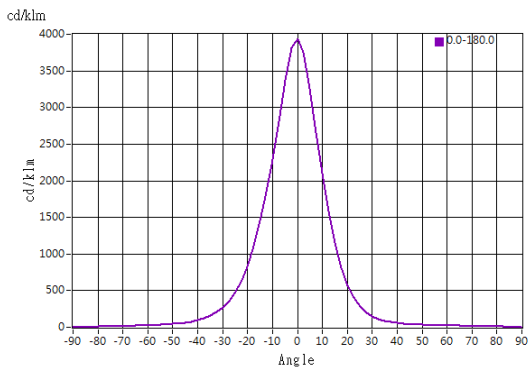


## Optical Characteristics

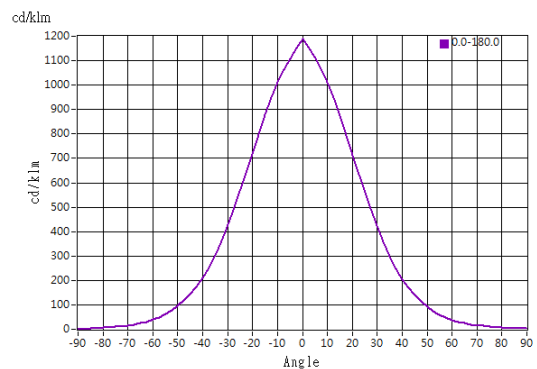
Model Number	CKO-ZU16-085019-8501
LED	<b>CXA2540</b>
LES / LED Size	Φ 19 mm
FWHM (D50)	22°-48°
Field Angle (D10)	49°-95°
H (distance)	5.5mm~-2.6mm
Dimension	Φ =75 mm, Thickness=16.5 mm
Luminous Flux	2866 lm ~ 2906 lm (22°-48°) Measured @ 28 W
Material	PC / UL94V2



## cd/klm

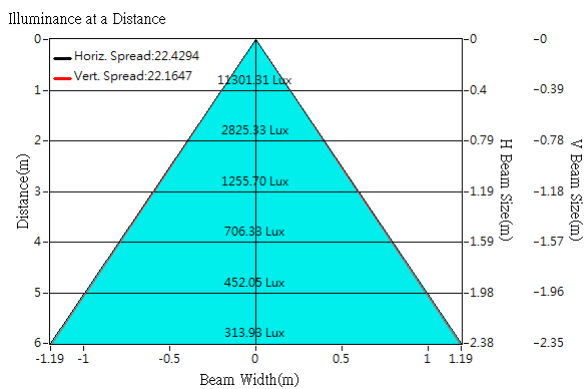


**H: 5.5 mm**

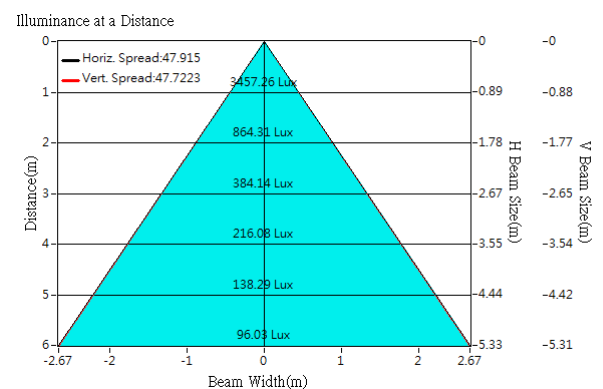


**H: -2.6 mm**

## Illuminance At Distances



**H: 5.5 mm**

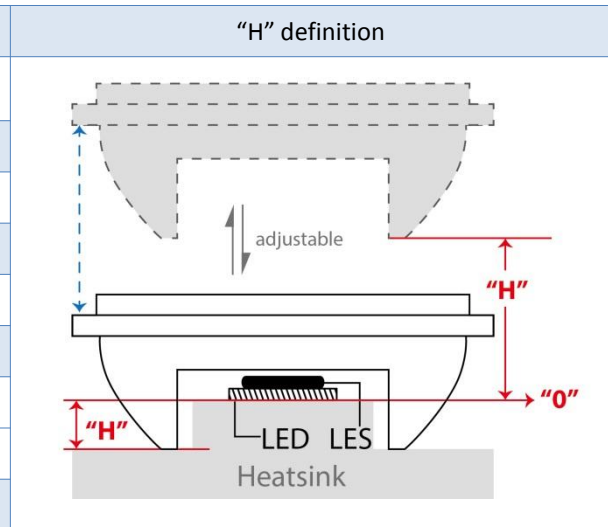


**H: -2.6 mm**

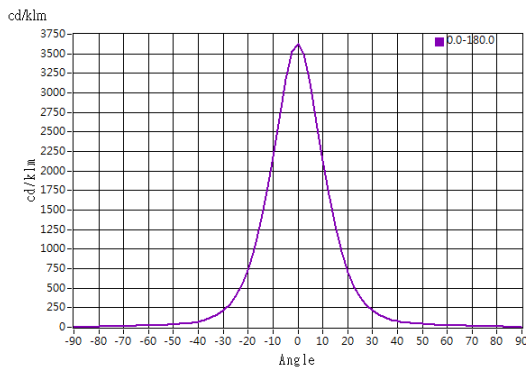


## Optical Characteristics

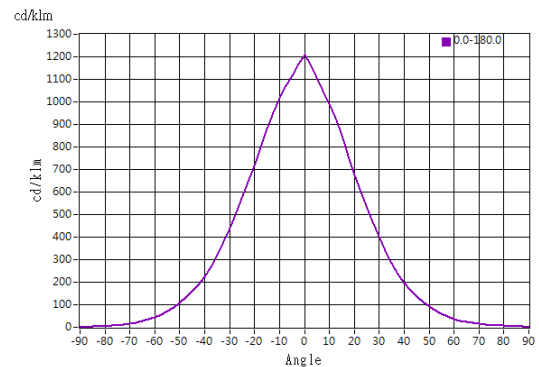
Model Number	CKO-ZU16-085019-8501
LED	<b>CXB2540</b>
LES / LED Size	Φ 19 mm
FWHM (D50)	24°-46°
Field Angle (D10)	51°-95°
H (distance)	5.5mm~2.6mm
Dimension	Φ =75 mm, Thickness=16.5 mm
Luminous Flux	4553 lm ~ 4707 lm (24°-46°) Measured @ 40 W
Material	PC / UL94V2



## cd/klm

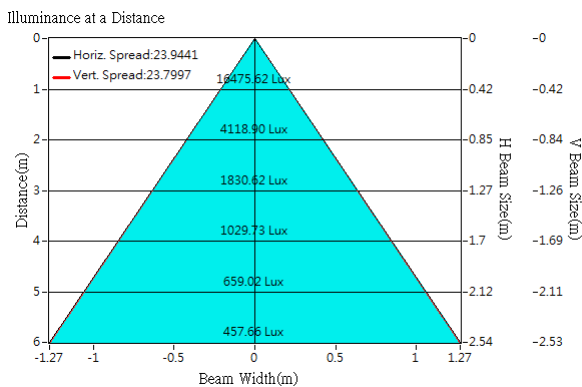


**H: 5.5 mm**

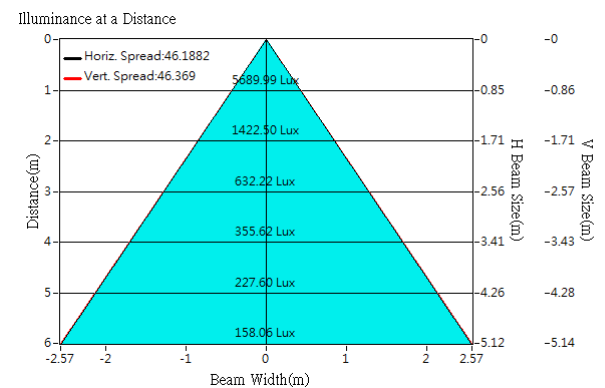


**H: -2.6 mm**

## Illuminance At Distances



**H: 5.5 mm**

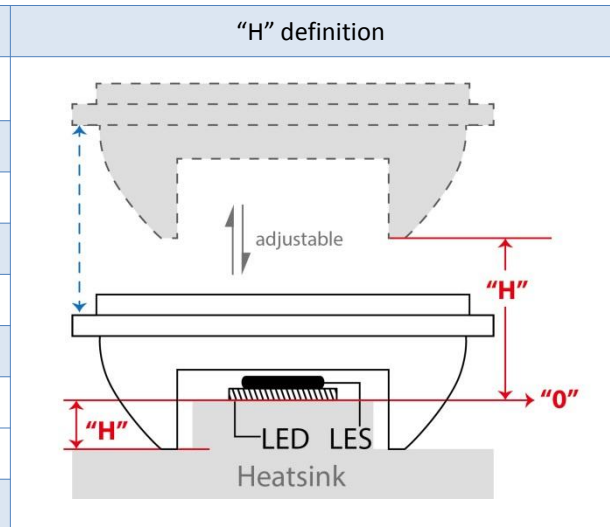


**H: -2.6 mm**

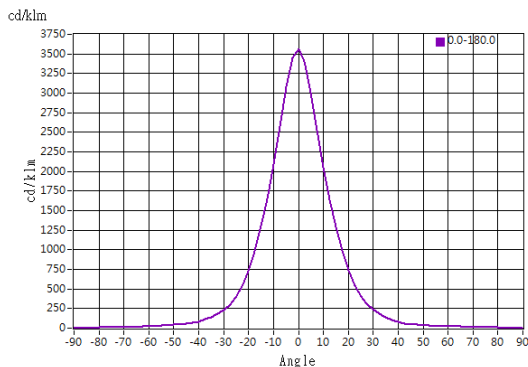


## Optical Characteristics

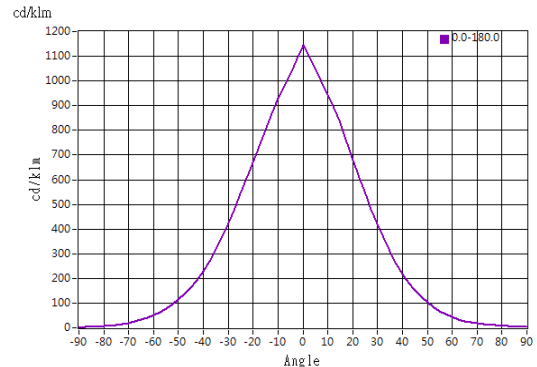
Model Number	CKO-ZU16-085019-8501
LED	<b>CMA2550</b>
LES / LED Size	Φ 19 mm
FWHM (D50)	23°-48°
Field Angle (D10)	52°-99°
H (distance)	4.5mm~-2.6mm
Dimension	Φ =85 mm, Thickness=18.5 mm
Luminous Flux	5793 lm ~ 5987 lm (23° ~ 48°) Measured @ 43.1 W
Material	PC / UL94V2



## cd/klm

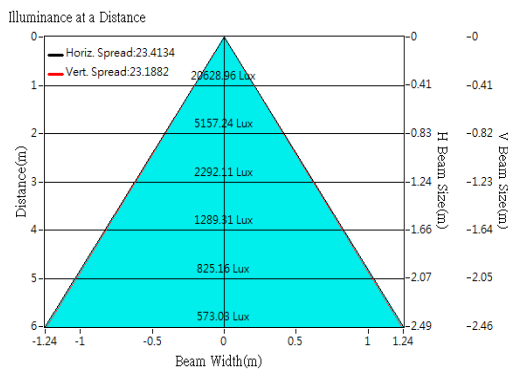


H: 4.5 mm

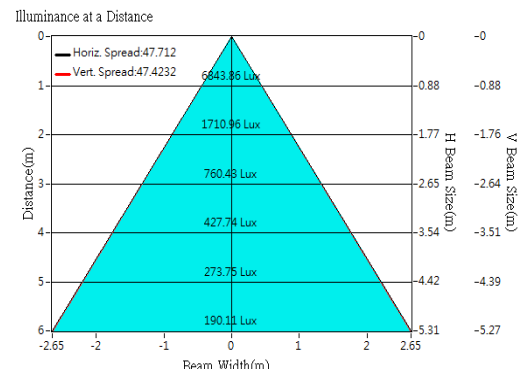


H: -2.6 mm

## Illuminance At Distances



H: 4.5 mm



H: -2.6 mm