

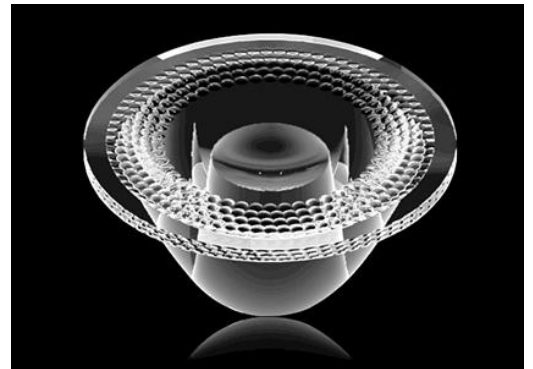


## Product Model Number

**CKO-CS15-075033-4005**

### ✓ Model Number Definitions

**CKO-XXXX-XXXXXX-XXXX**

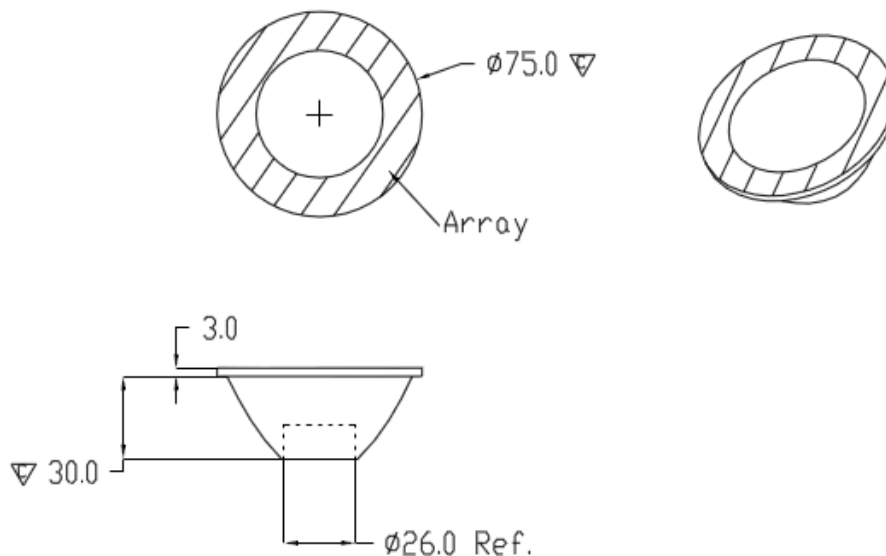


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation  
Ex:  
CH→CoB High Intensity  
CC→CoB Compact  
CS→Soft Shading for CoB LED  
HC→Holder for CoB LED

- 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) : Φ75 x 33



▽:Critical Dimension

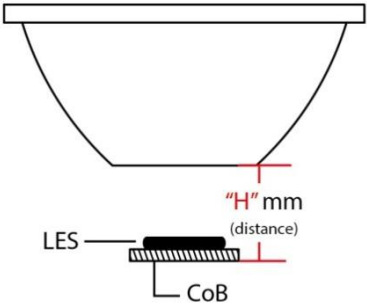


✓ Optical Characteristics – Angle Performances

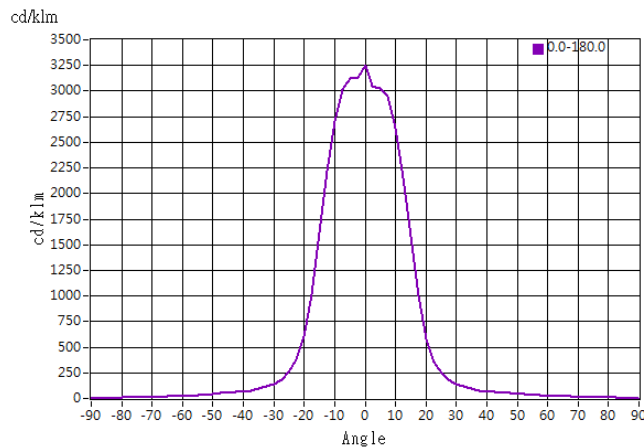
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXB1520	Φ9	29°	46°
CMT1407	Φ9.8	28°	46°
CMT1412	Φ9.8	28°	46°
CXA1816	Φ12	32°	51°
CXB1816	Φ12	32°	52°
CXA1820	Φ12	31°	49°
CXB1820	Φ12	29°	48°
CMA1825	Φ12	33°	52°
CXA1830	Φ14	30°	49°
CXB1830	Φ14	31°	51°
CMA1840	Φ14	34°	55°
CMT1922	Φ14.5	31°	52°
CMT1925	Φ14.5	31°	52°
CMT1930	Φ14.5	31°	52°
CMT1945	Φ14.5	31°	52°
CXA2520	Φ19	34°	58°
CXA2530	Φ19	34°	57°
CXB2530	Φ19	35°	60°
CXA2540	Φ19	35°	58°
CXB2540	Φ19	36°	61°
CMA2550	Φ19	38°	65°



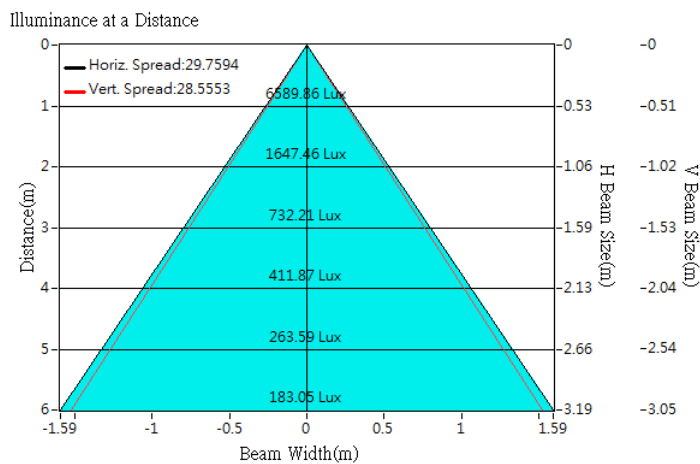
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p> 
LED	CXB 1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	29°		
Field Angle (D10)	46°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2023 lm	Measured @ 16.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

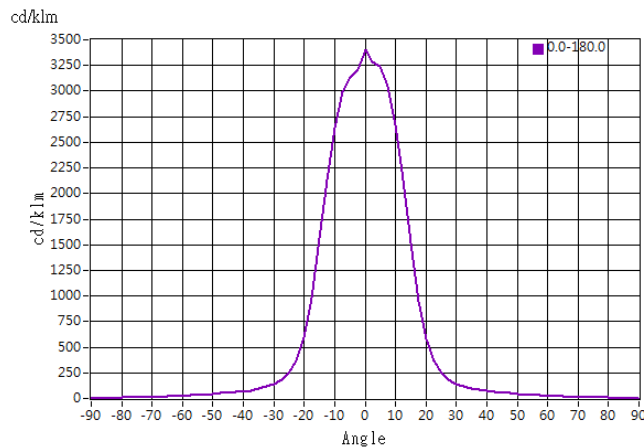




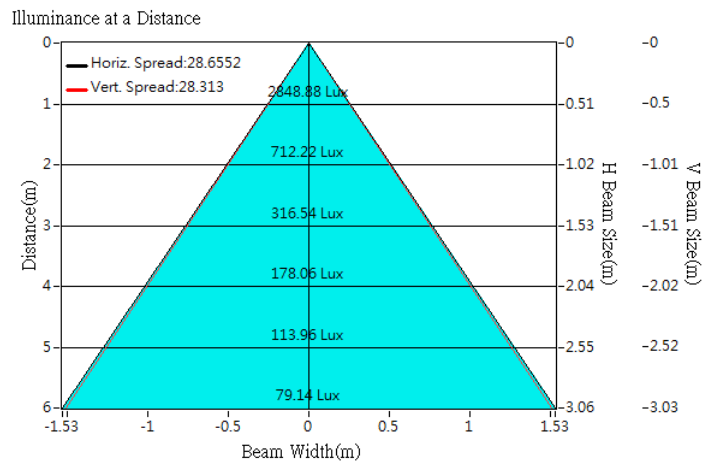
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CMT1407</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	28°		
Field Angle (D10)	46°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	838 lm	Measured @ 7.0 W	
Material	PC / UL94V2		

## cd/klm

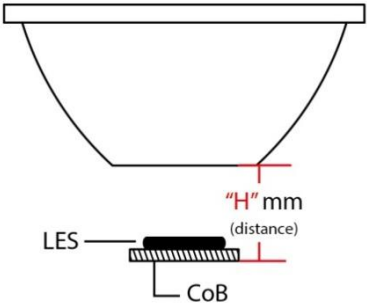


## Illuminance At Distances

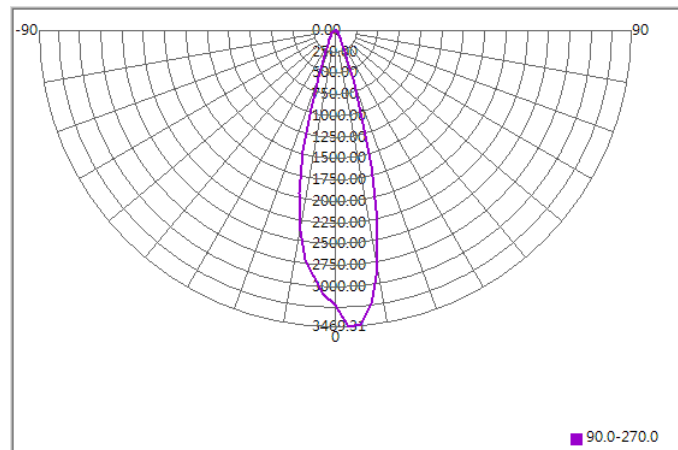




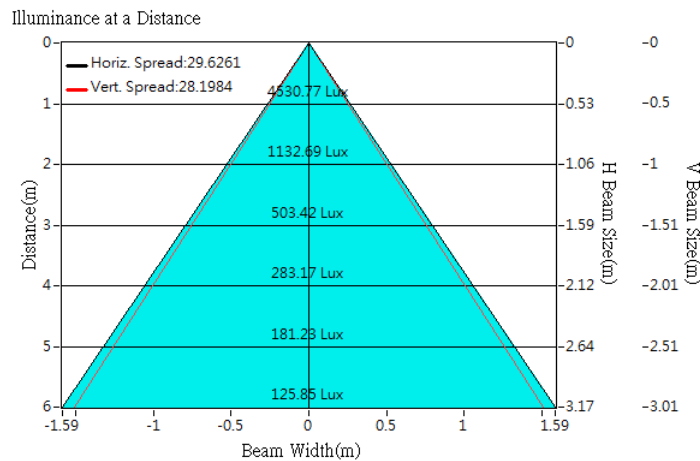
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p> 
LED	<b>CMT1412</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	28°		
Field Angle (D10)	46°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1406 lm	Measured @ 12.2 w	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

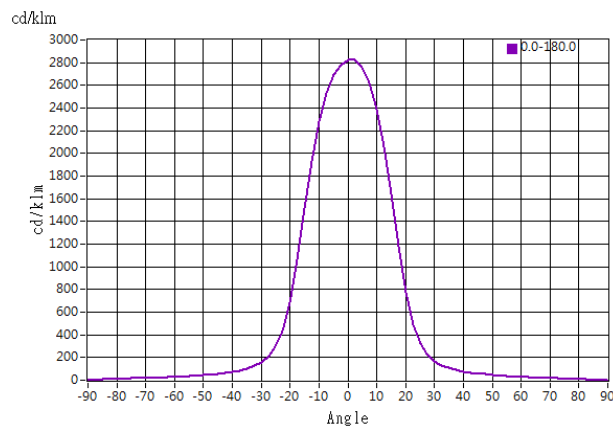




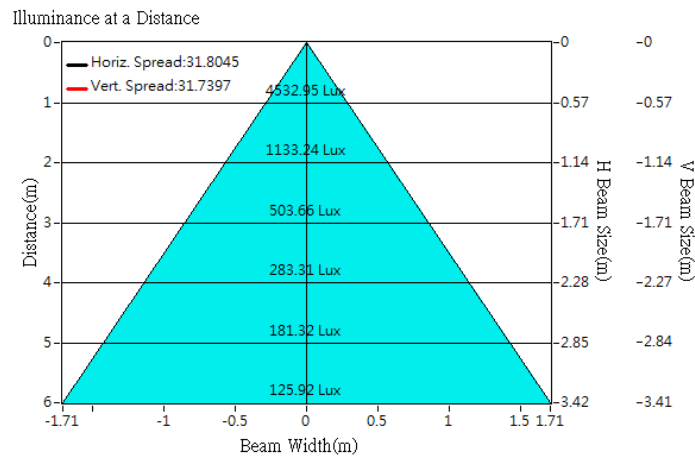
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CXA 1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	32°		
Field Angle (D10)	51°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1604 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

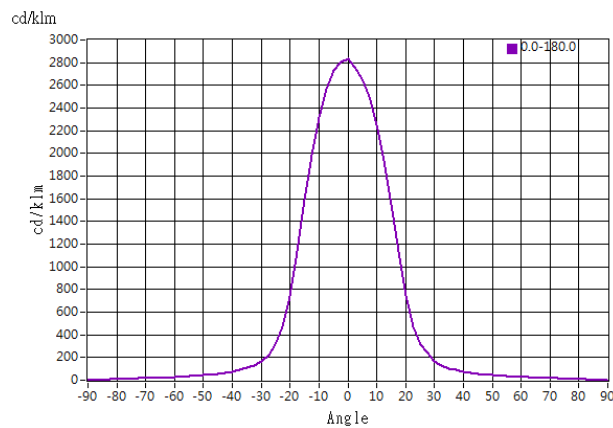




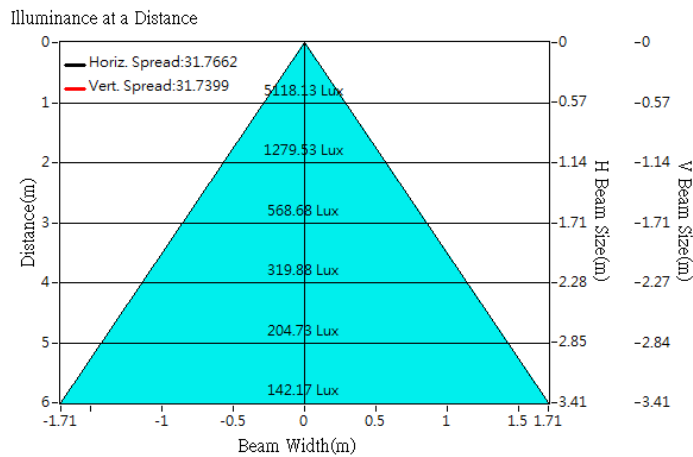
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CXB 1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	32°		
Field Angle (D10)	52°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1807 lm	Measured @ 15.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

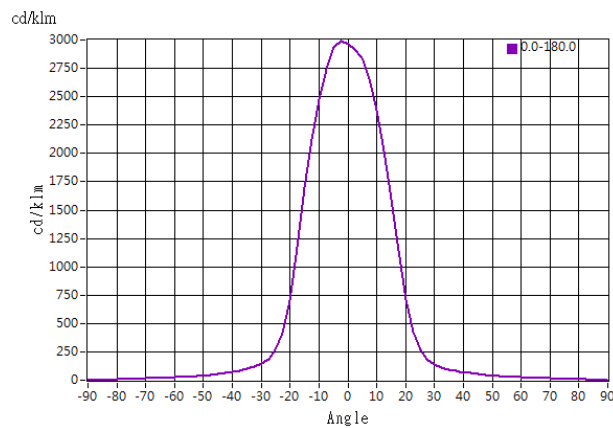




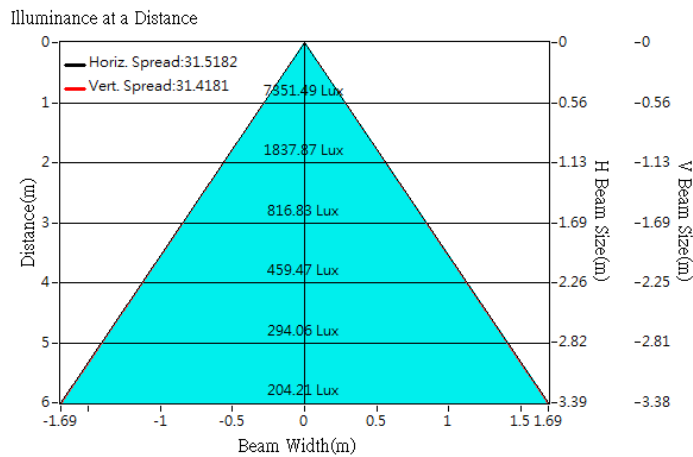
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CXA 1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	31°		
Field Angle (D10)	49°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2482 lm	Measured @ 30.7 W	
Material	PC / UL94V2		

## cd/klm

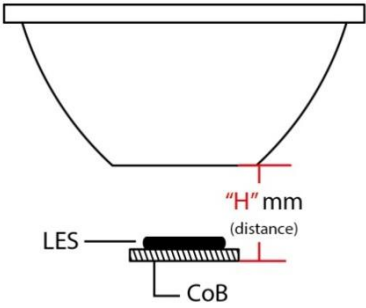


## Illuminance At Distances

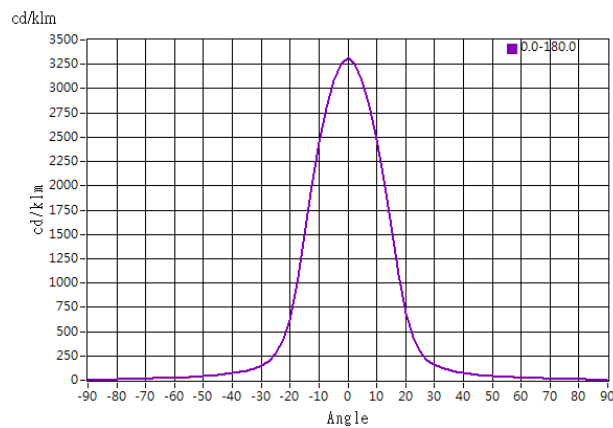




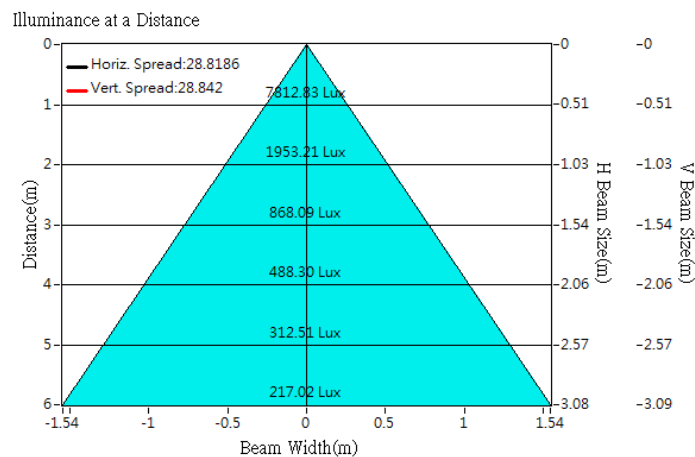
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p> 
LED	<b>CXB 1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	29°		
Field Angle (D10)	48°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2354 lm	Measured @ 19.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

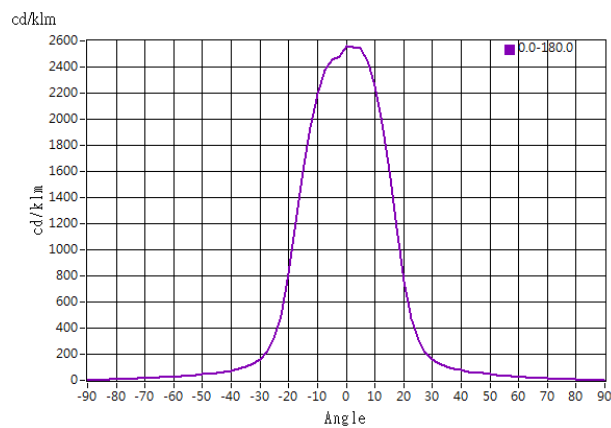




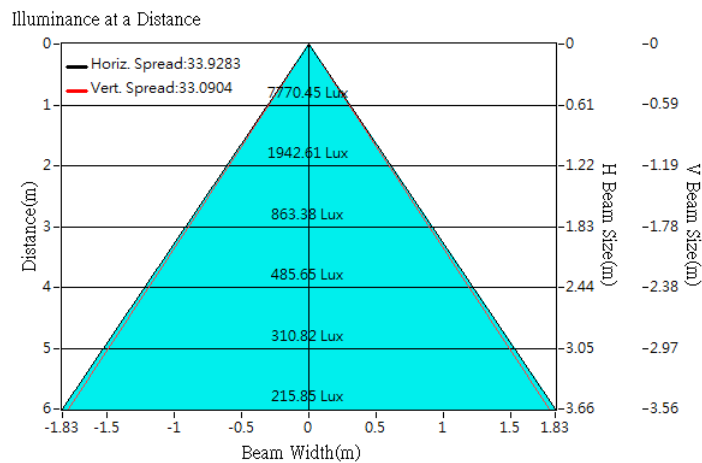
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMA 1825</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	33°		
Field Angle (D10)	52°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3039 lm	Measured @ 24.5 W	
Material	PC / UL94V2		

## cd/klm

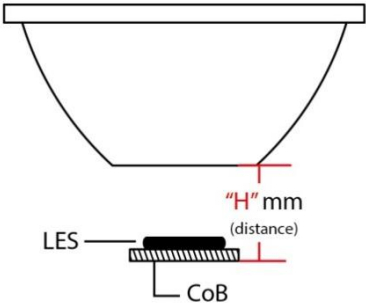


## Illuminance At Distances

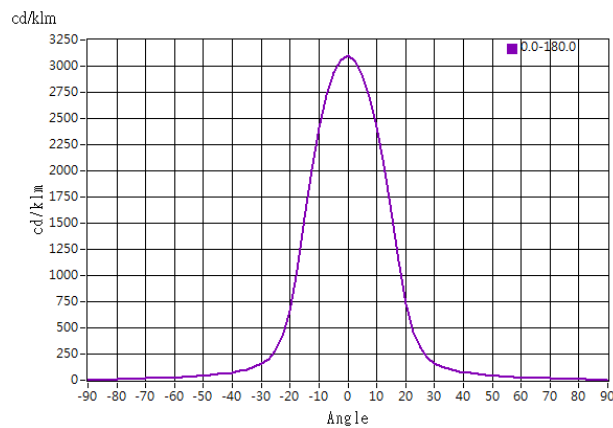




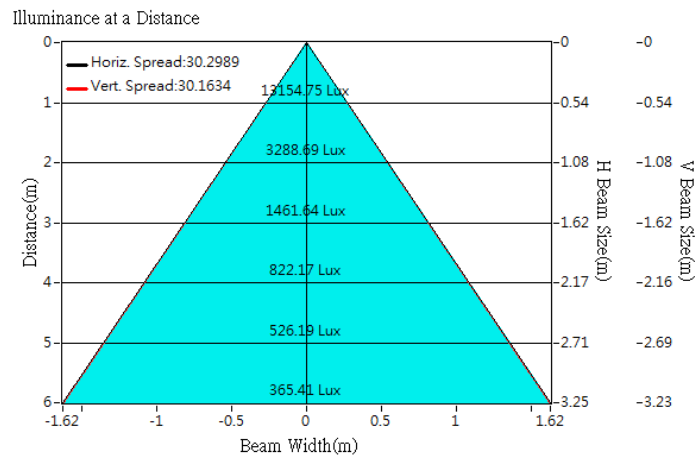
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p> 
LED	<b>CXA 1850</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	30°		
Field Angle (D10)	49°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	4237 lm	Measured @ 47.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

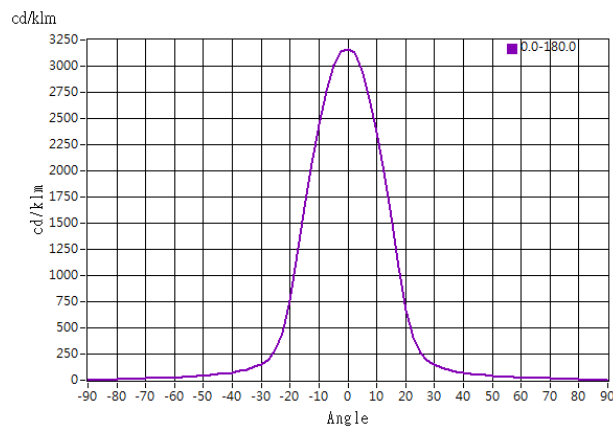




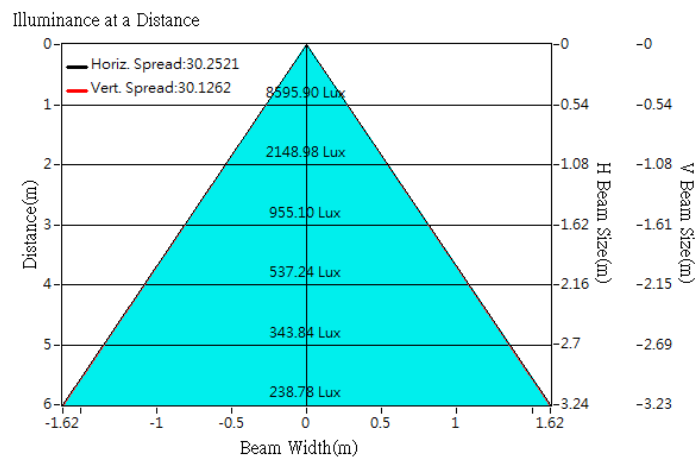
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CXA 1830</b>		
LES / LED Size	Φ 14 mm		
FWHM (D50)	30°		
Field Angle (D10)	49°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2717 lm	Measured @ 28.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

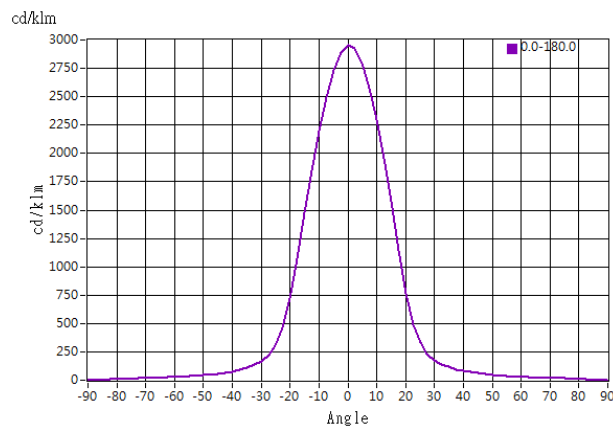




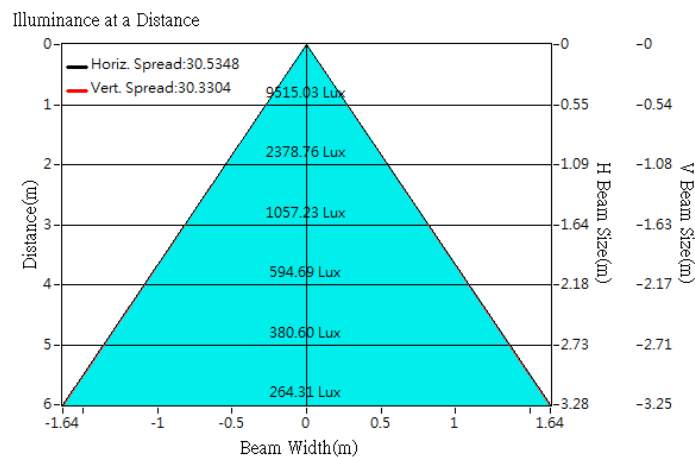
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CXB 1830</b>		
LES / LED Size	Φ 14 mm		
FWHM (D50)	31°		
Field Angle (D10)	51°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3221 lm	Measured @ 28.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

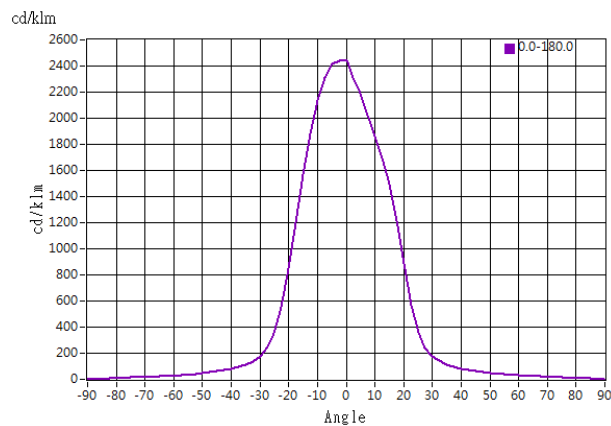




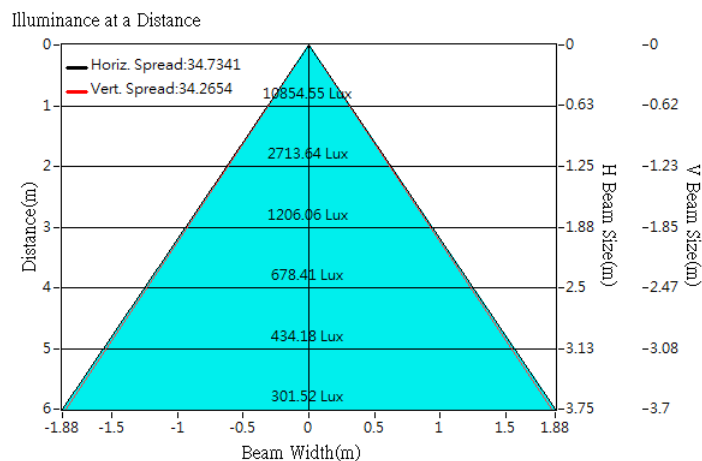
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CMA 1840</b>		
LES / LED Size	Φ 14 mm		
FWHM (D50)	34°		
Field Angle (D10)	55°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	4437 lm	Measured @ 40.6 W	
Material	PC / UL94V2		

## cd/klm

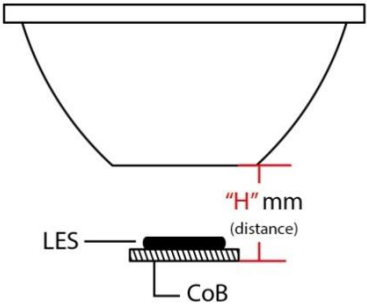


## Illuminance At Distances

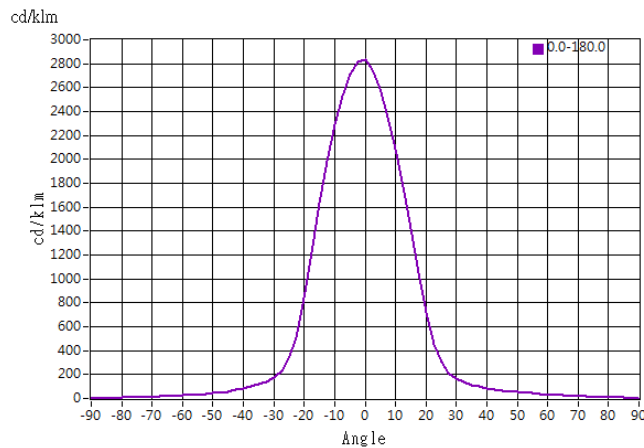




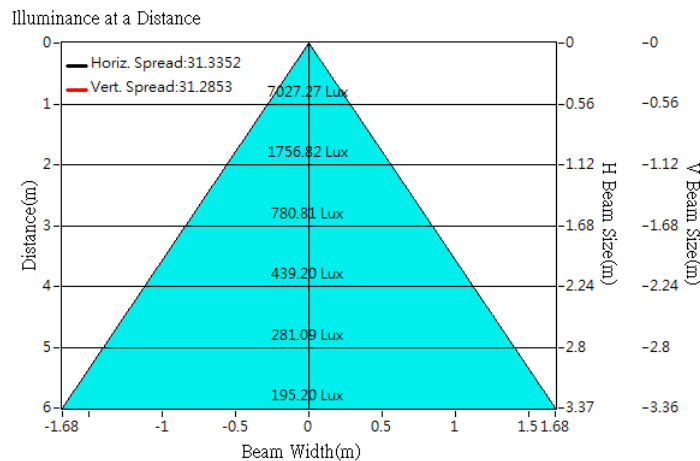
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p> 
LED	<b>CMT1922</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	31°		
Field Angle (D10)	52°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2483 lm	Measured @ 21.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

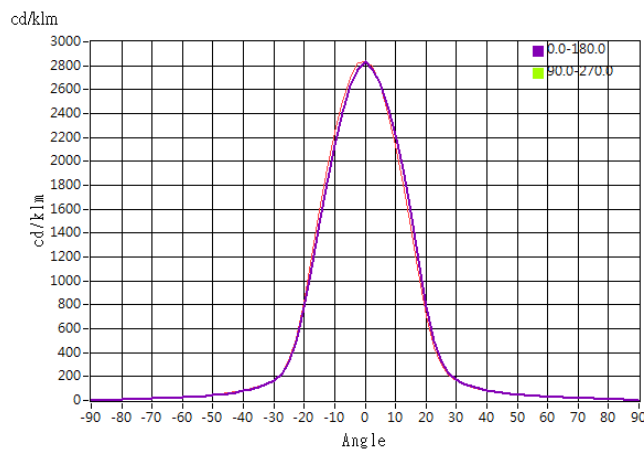




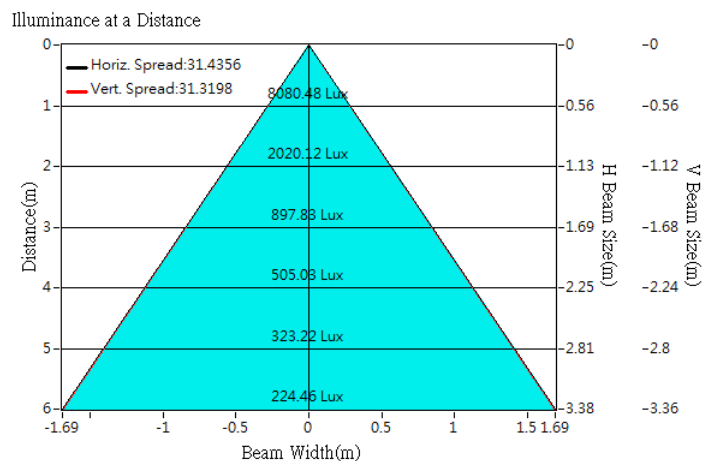
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CMT1925</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	31°		
Field Angle (D10)	52°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2855 lm	Measured @ 25.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

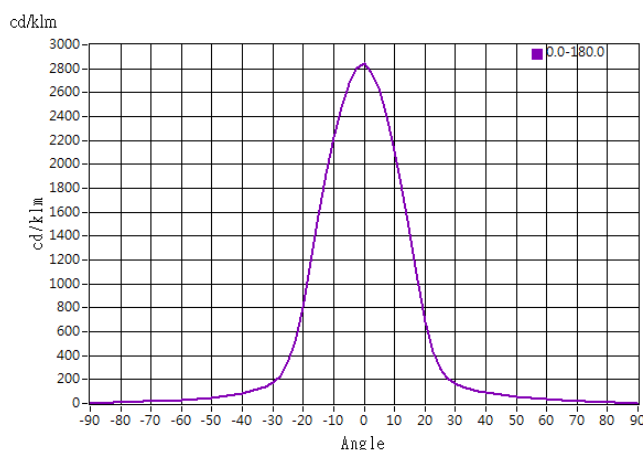




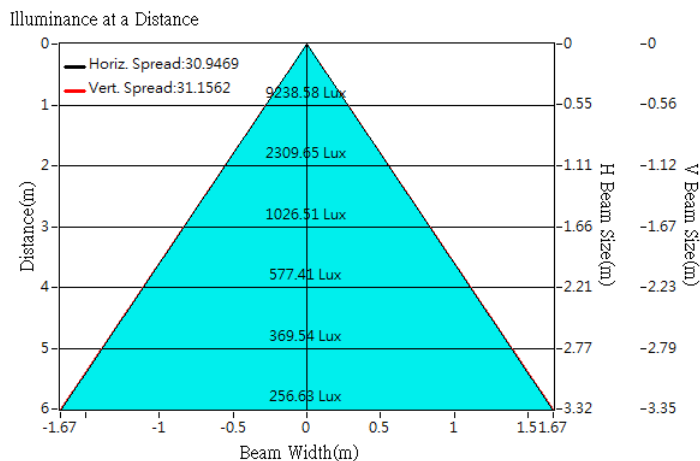
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CMT1930</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	31°		
Field Angle (D10)	52°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3254 lm	Measured @ 29.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

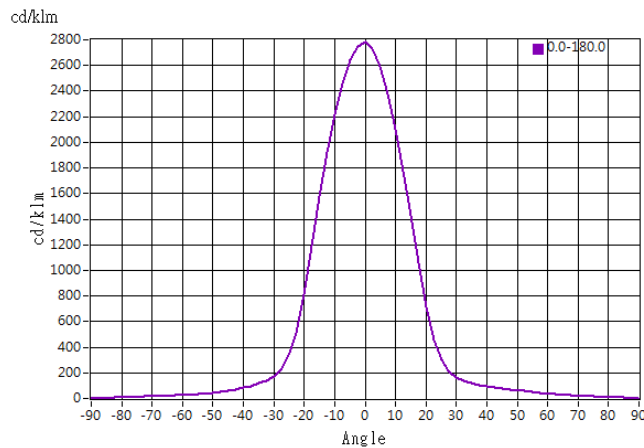




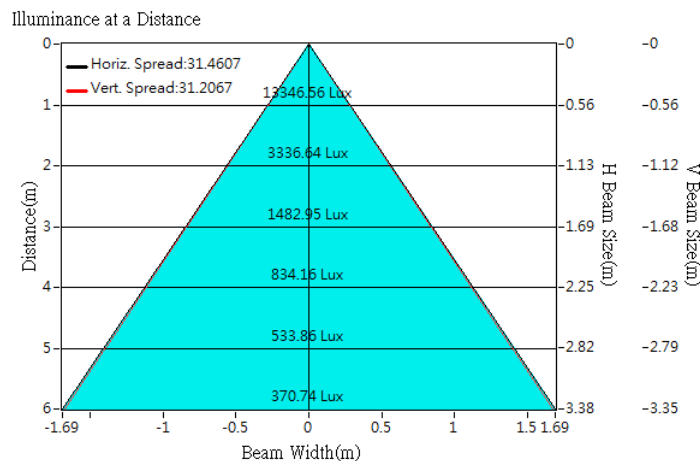
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CMT1945</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	31°		
Field Angle (D10)	52°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	4801 lm	Measured @ 44.0 W	
Material	PC / UL94V2		

## cd/klm

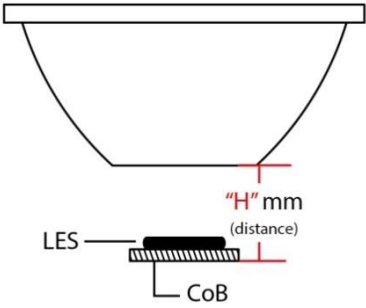


## Illuminance At Distances

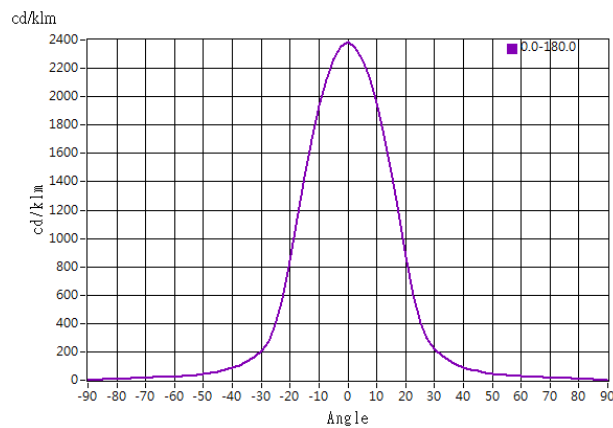




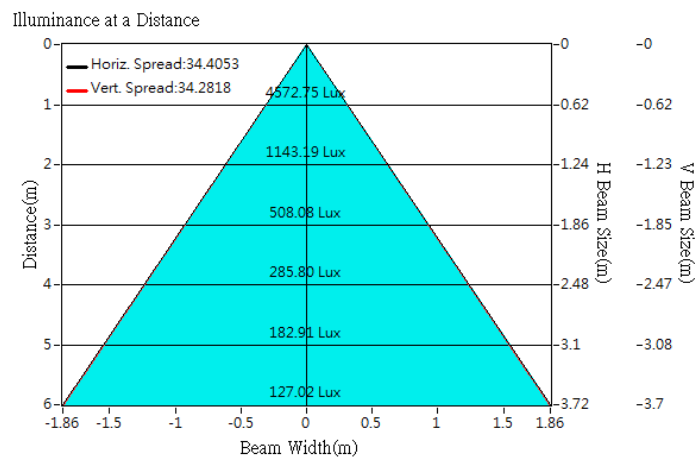
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p> 
LED	<b>CXA 2520</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	34°		
Field Angle (D10)	58°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1918 lm	Measured @ 20.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

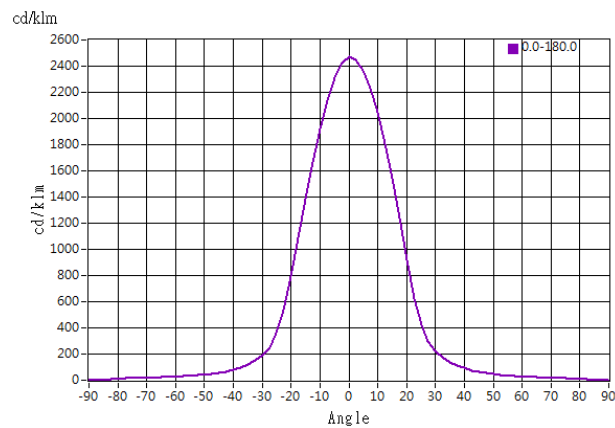




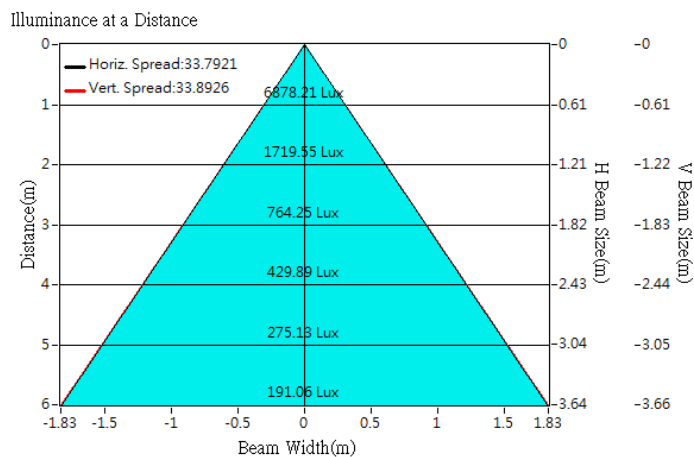
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CXA 2530</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	34°		
Field Angle (D10)	57°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2785 lm	Measured @ 29.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

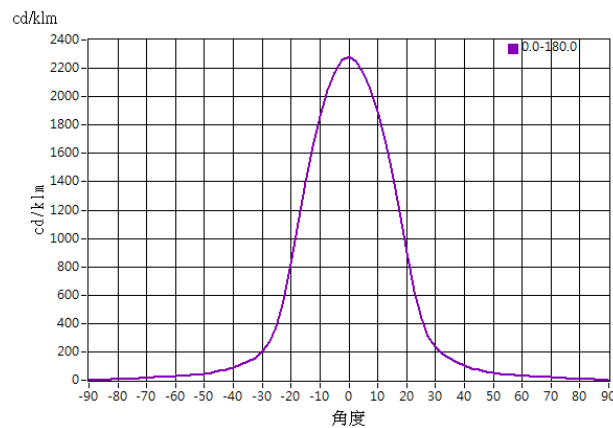




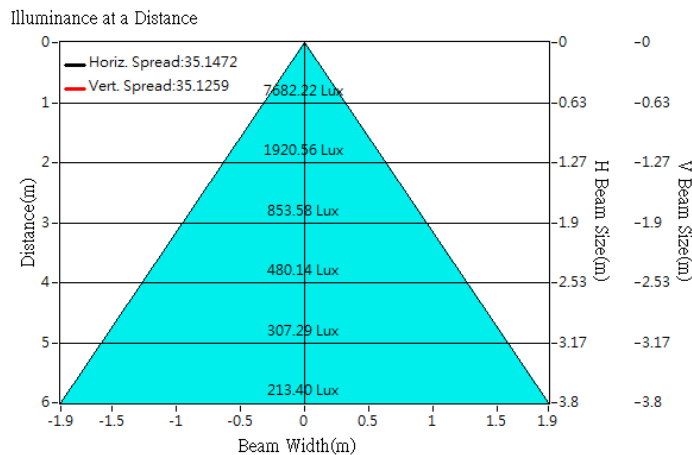
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CXB 2530</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	35°		
Field Angle (D10)	60°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3369 lm	Measured @ 27.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

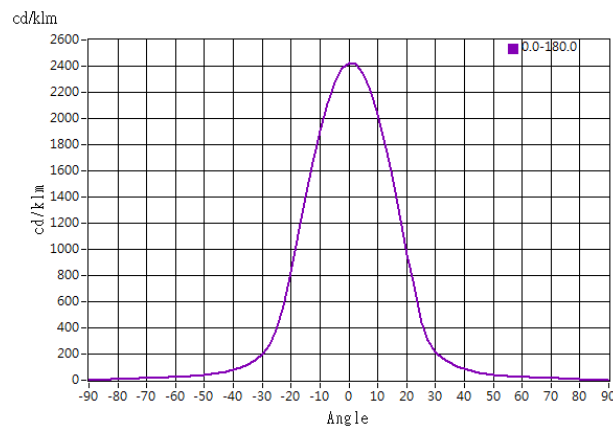




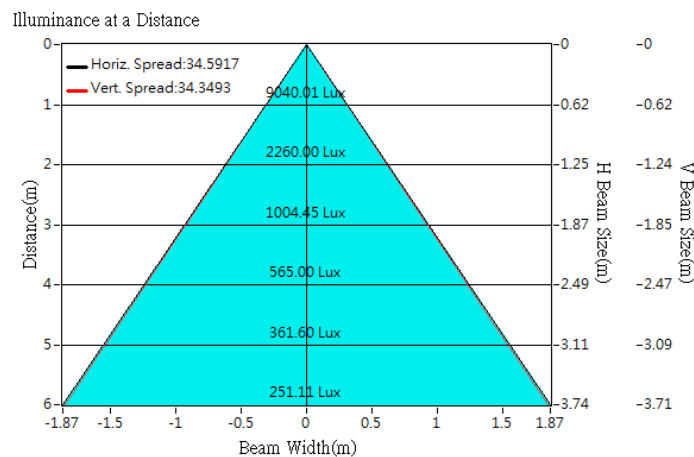
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CXA 2540</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	35°		
Field Angle (D10)	58°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3731 lm	Measured @ 39.8 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

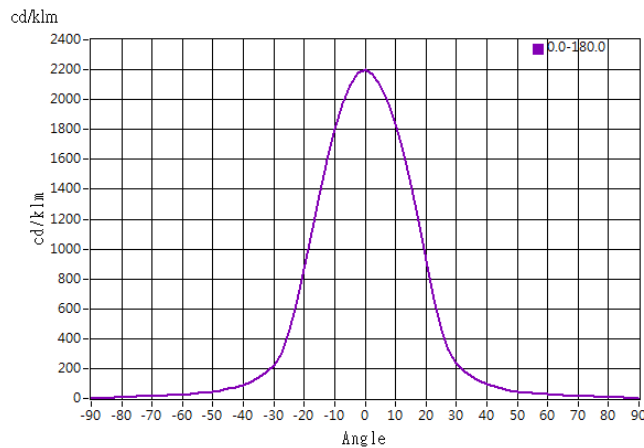




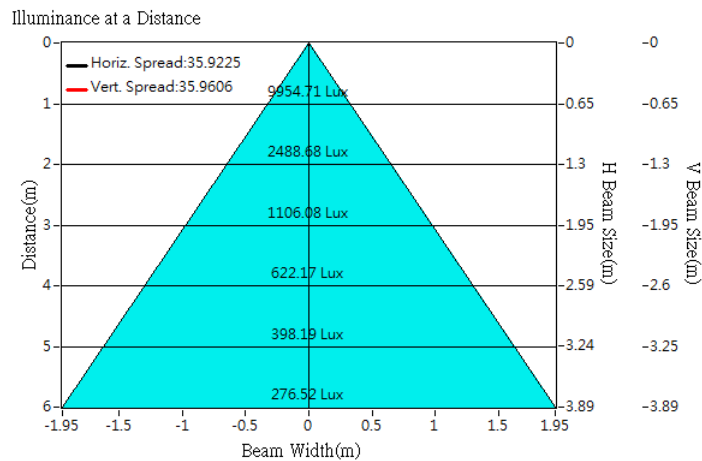
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CXB2540</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	36°		
Field Angle (D10)	61°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	4522 lm	Measured @ 38.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

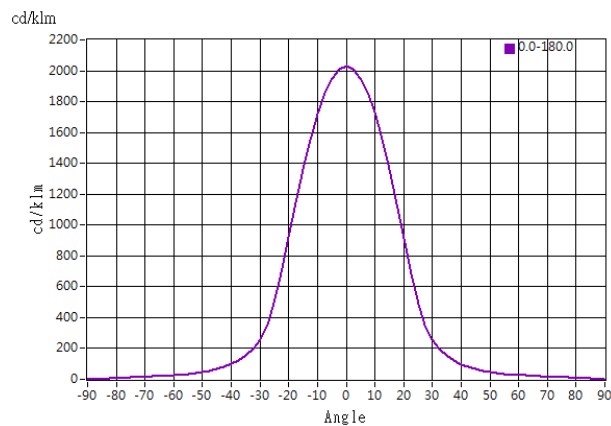




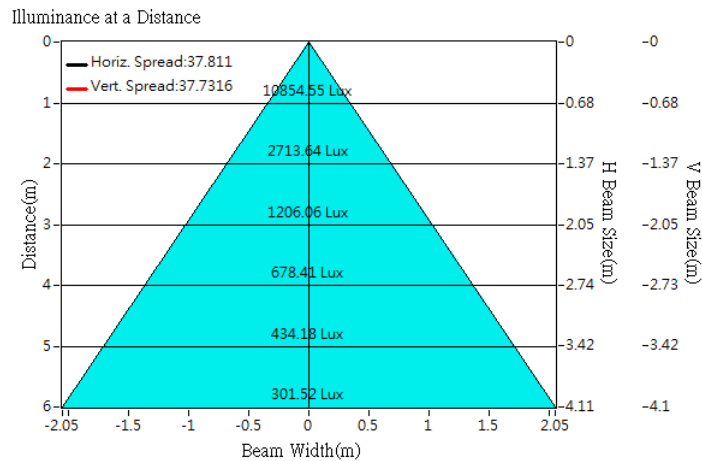
## Optical Characteristics

Model Number	CKO-CS15-075033-4005		<p>"H" definition</p>
LED	<b>CMA2550</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	38°		
Field Angle (D10)	65°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	5354 lm	Measured @ 42.5 W	
Material	PC / UL94V2		

## cd/klm

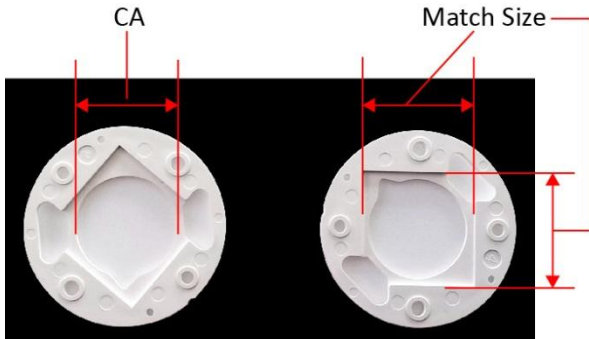


## Illuminance At Distances





## Lens Accessories - CoB Holder



Example of LES Area & LED Size Dimension Locations

Product Model	Match Size (mm)	CA (mm)	Material	Applicability
CKO-HC13-131307-6411	13.6 x 13.6	Φ 7.8	PBT	CREE CXA 13XX
CKO-HC13-161610-6412	16.1 x 16.1	Φ 10.8	PBT	CREE CXA 15XX
CKO-HC13-181816-6413	18.1 x 18.1	Φ 16.4	PBT	CREE CXA 18XX
CKO-HC13-242421-6414	24.1 x 24.1	Φ 21.3	PBT	CREE CXA 25XX
CKO-HC13-272725-6415	27.6 x 27.6	Φ 25.3	PBT	CREE CXA 30XX