



## Product Model Number

**CKO-CH15-075033-4401**

### ✓ Model Number Definitions

**CKO-XXXX-XXXXXX-XXXX**

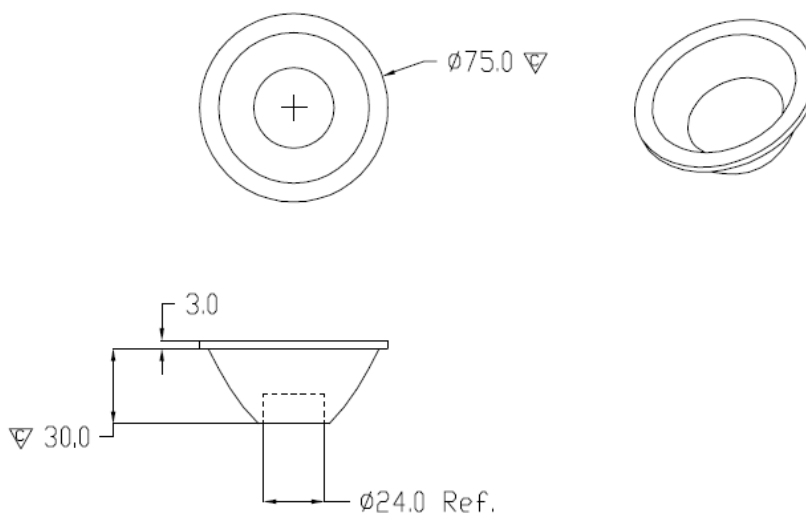


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation  
Ex:  
CH→CoB High Intensity  
CC→CoB Compact  
CS→Soft Shading for CoB LED  
HC→Holder for CoB LED

- 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

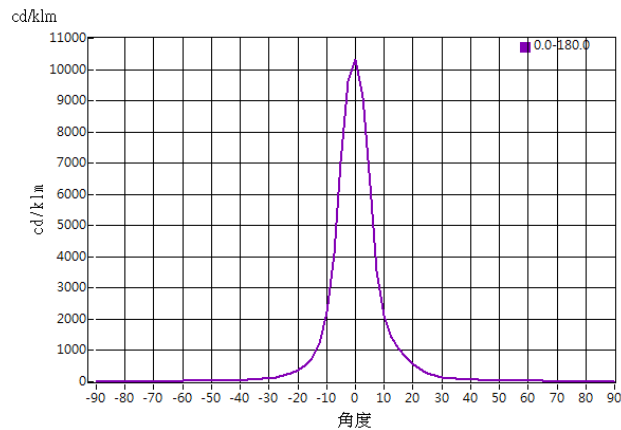
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1507	Φ9	12°	29°
CXB1507	Φ9	13°	27°
CXA1510	Φ9	12°	27°
CXA1512	Φ9	12°	25°
CXB1512	Φ9	12°	26°
CMA1516	Φ9	13°	28°
CXB1520	Φ9	13°	28°
CMT1407	Φ9.8	15°	32°
CMT1412	Φ9.8	15°	31°
CXA1816	Φ12	16°	34°
CXB1816	Φ12	17°	35°
CXA1820	Φ12	17°	38°
CXB1820	Φ12	17°	36°
CMA1825	Φ12	18°	38°
CXA1830	Φ14	18°	39°
CXB1830	Φ14	19°	41°
CMA1840	Φ14	21°	42°
CMT1922	Φ14.5	21°	43°
CMT1925	Φ14.5	21°	44°
CMT1930	Φ14.5	21°	43°
CMT1945	Φ14.5	21°	43°
CXA2520	Φ19	23°	50°
CXA2530	Φ19	23°	49°
CXB2530	Φ19	24°	53°
CXA2540	Φ19	25°	51°
CXB2540	Φ19	28°	55°
CMA2550	Φ19	27°	57°



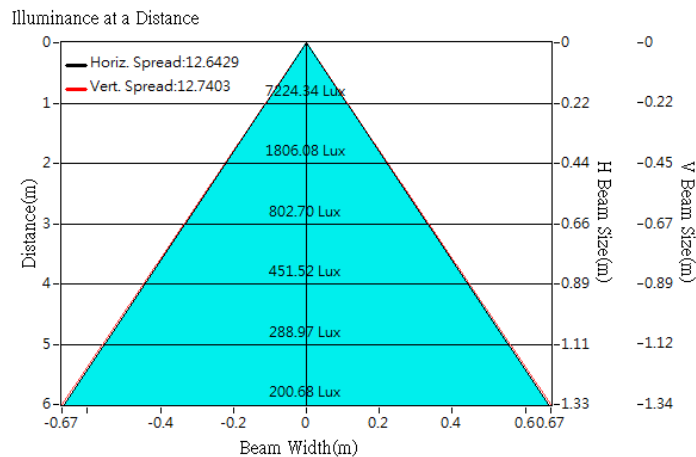
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CREE CXA1507</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	12°		
Field Angle (D10)	29°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	701 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

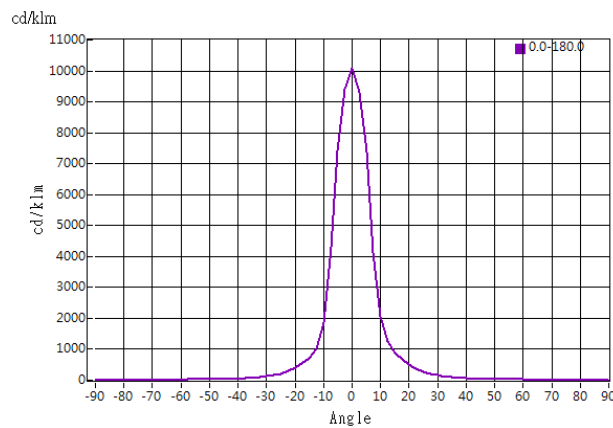




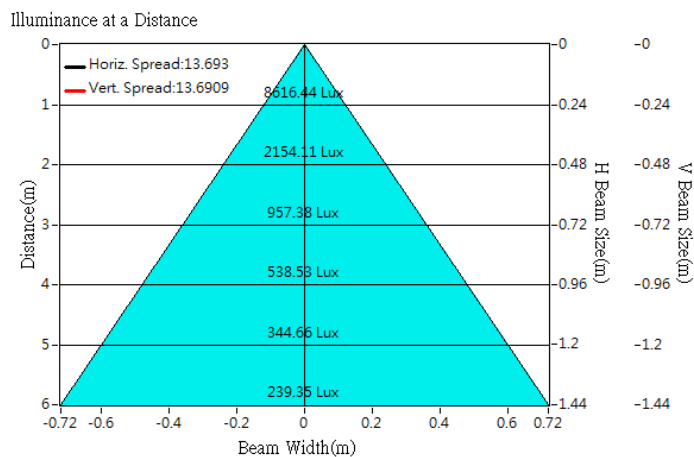
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CREE CXB1507</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	13°		
Field Angle (D10)	27°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	855 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

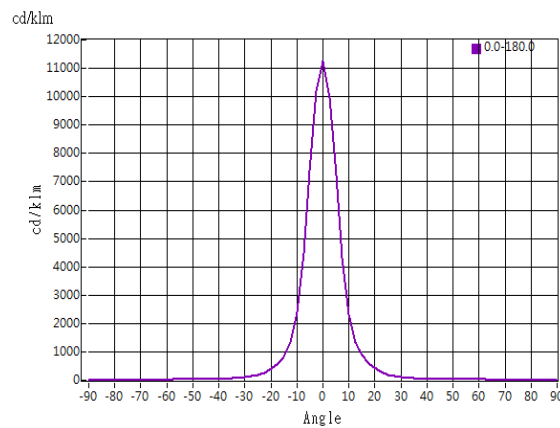




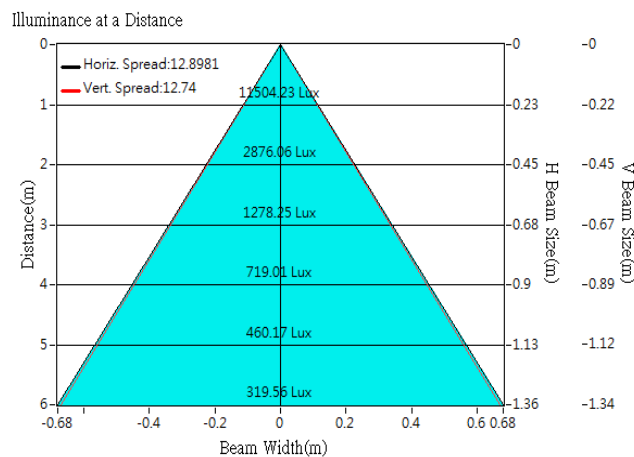
## Optical Characteristics

Model Number	CKO-CH15-075033-4401	<p>"H" definition</p>
LED	<b>CREE CXA1510</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	12°	
Field Angle (D10)	27°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=33 mm	
Luminous Flux	1022 lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

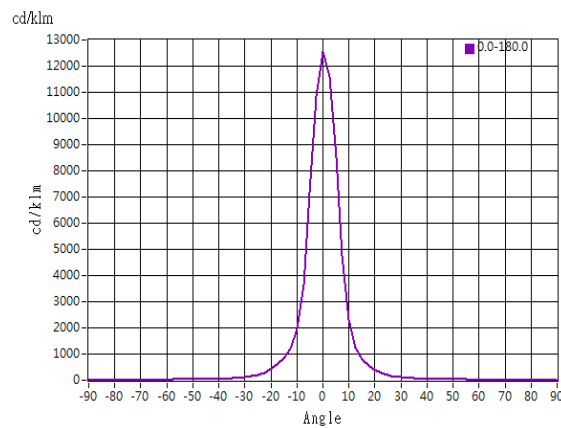




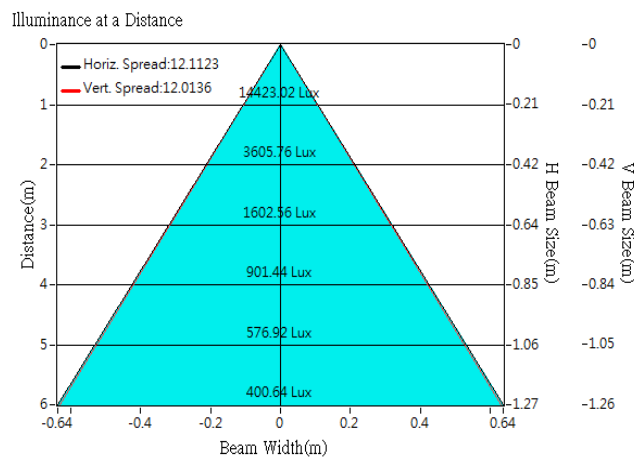
## Optical Characteristics

Model Number	CKO-CH15-075033-4401	<p>"H" definition</p>
LED	<b>CREE CXA1512</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	12°	
Field Angle (D10)	25°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=33 mm	
Luminous Flux	1149lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

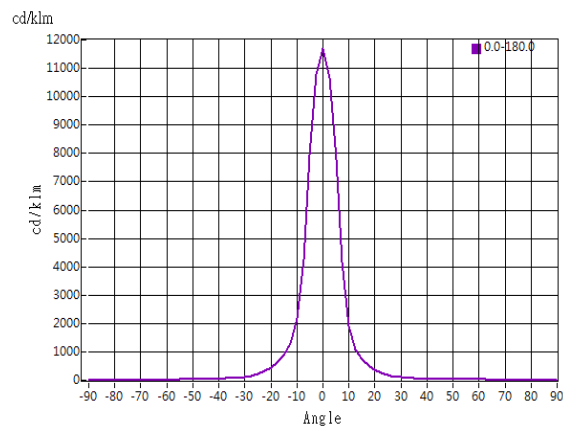




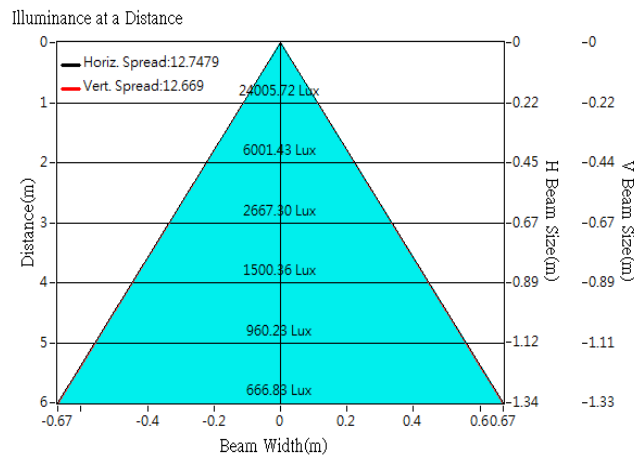
## Optical Characteristics

Model Number	CKO-CH15-075033-4401	<p>"H" definition</p>
LED	<b>CREE CXB1512</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	12°	
Field Angle (D10)	26°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=33 mm	
Luminous Flux	2050lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

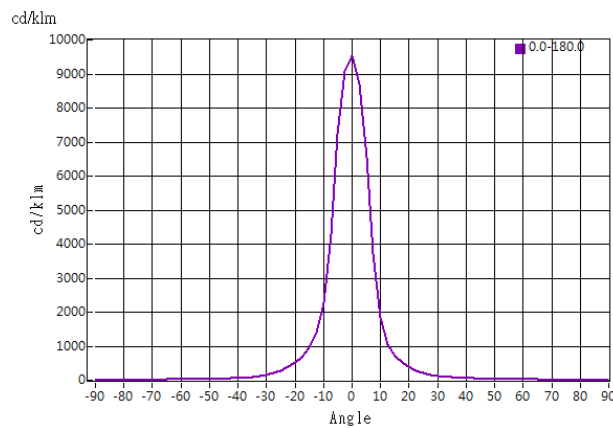




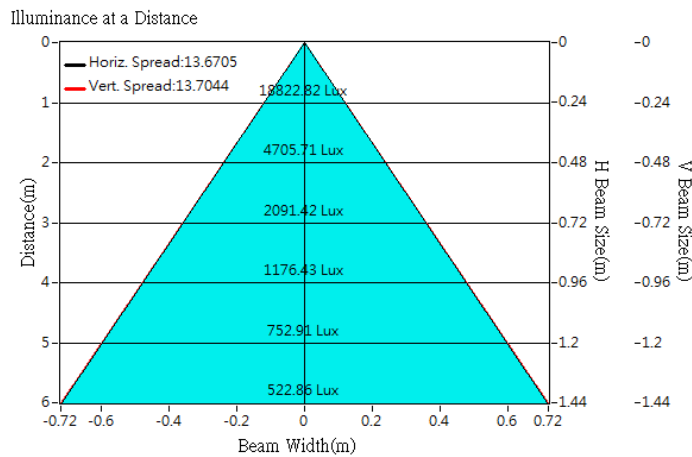
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CREE CMA1516</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	13°		
Field Angle (D10)	28°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1976 lm	Measured @ 15.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

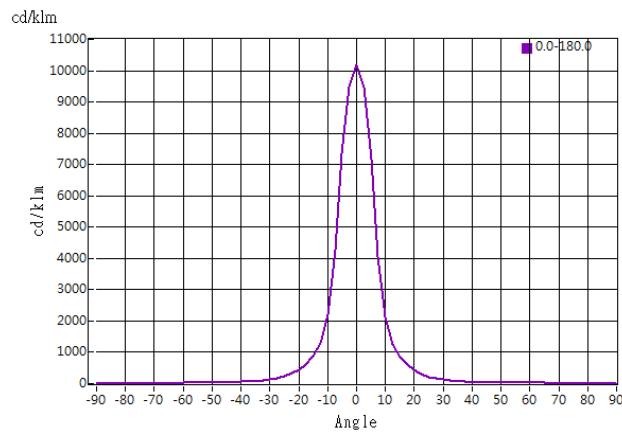




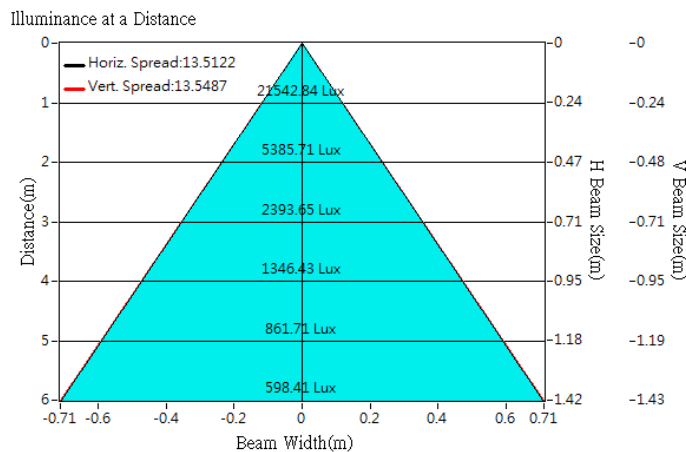
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	13°		
Field Angle (D10)	28°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2117 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

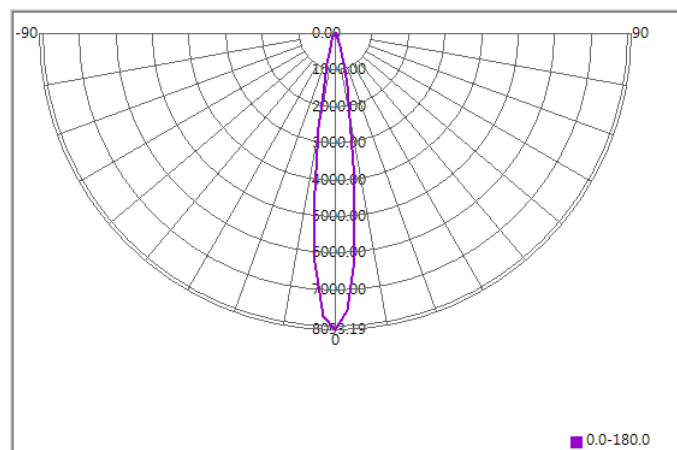




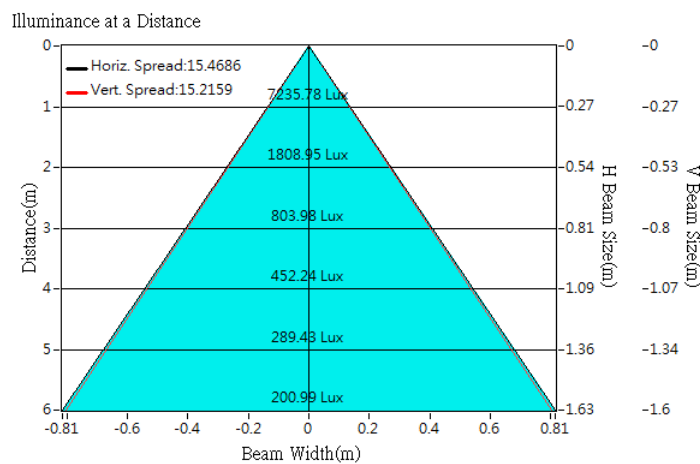
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMT1407</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	15°		
Field Angle (D10)	32°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	894 lm	Measured @ 24.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

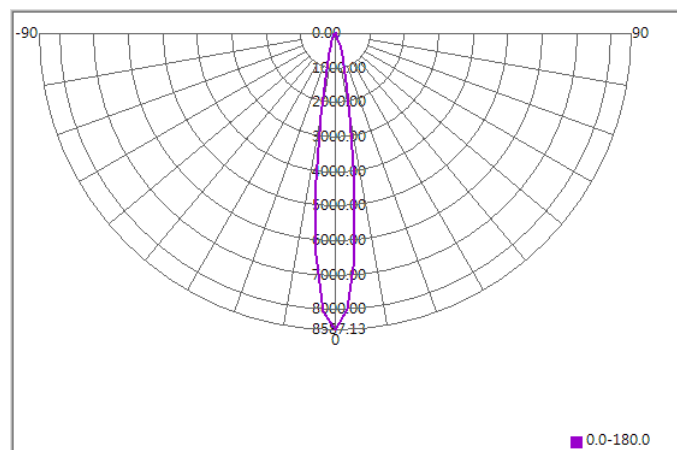




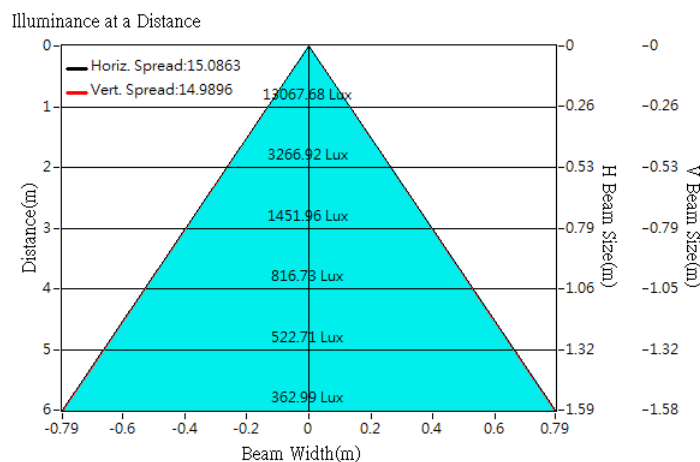
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMT1412</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	15°		
Field Angle (D10)	31°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1521 lm	Measured @ 12.2 W	
Material	PC / UL94V2		

## cd/klm

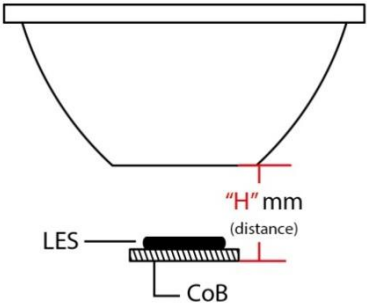


## Illuminance At Distances

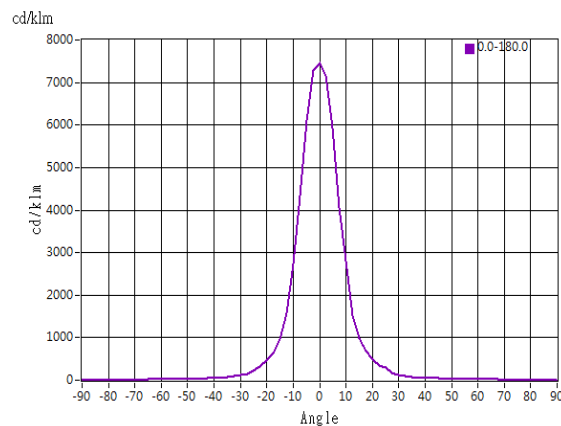




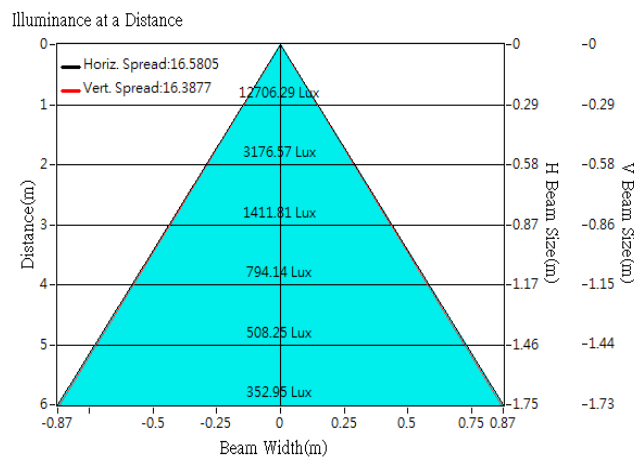
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p> 
LED	<b>CREE CXA1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	16°		
Field Angle (D10)	34°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1702 lm	Measured @ 16.7W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

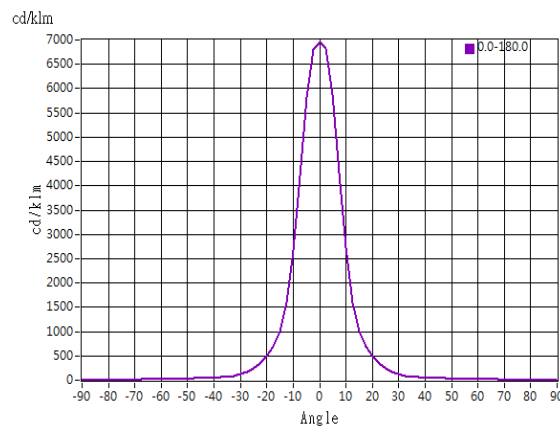




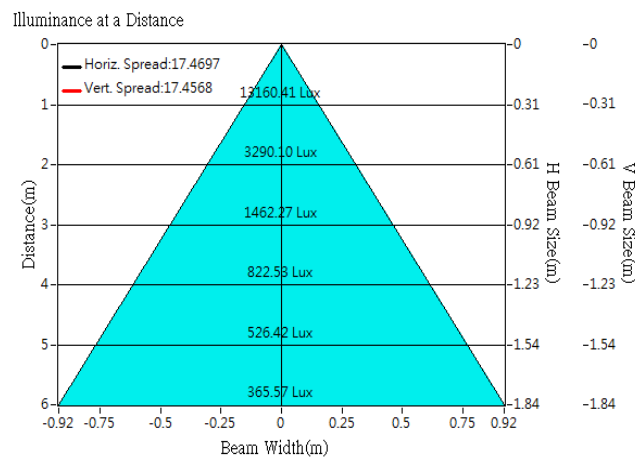
## Optical Characteristics

Model Number	CKO-CH15-075033-4401	<p>"H" definition</p>
LED	<b>CREE CXB1816</b>	
LES / LED Size	Φ 12 mm	
FWHM (D50)	17°	
Field Angle (D10)	35°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=33 mm	
Luminous Flux	1892 lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

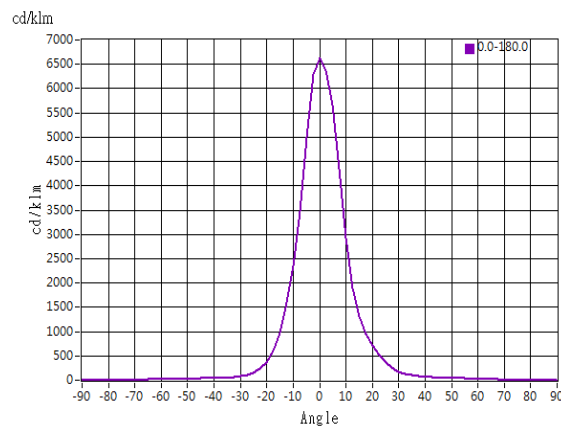




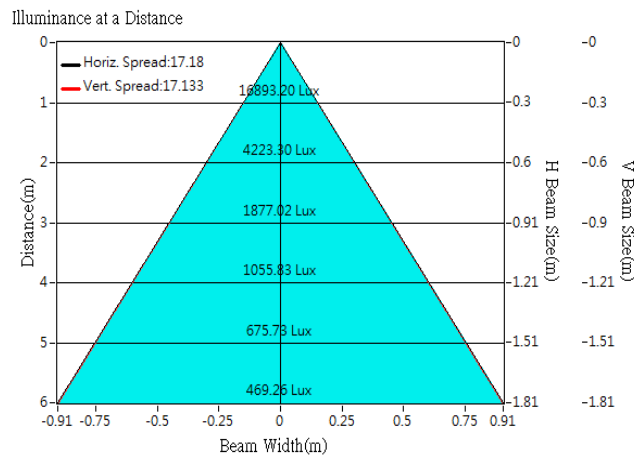
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CREE CXA1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	17°		
Field Angle (D10)	38°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2550 lm	Measured @ 30.8W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

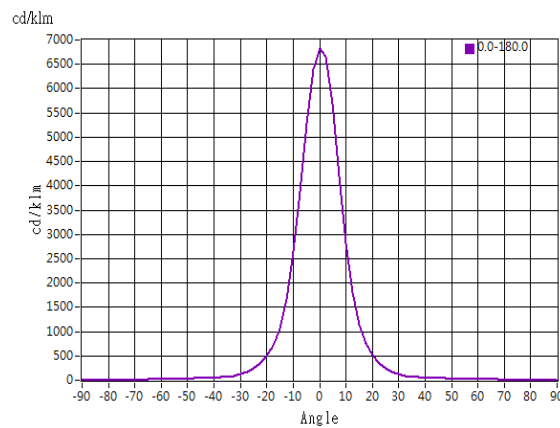




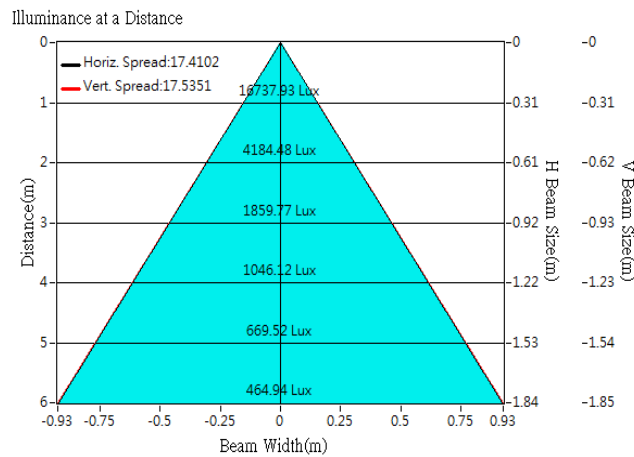
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CREE CXB1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	17°		
Field Angle (D10)	36°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2455 lm	Measured @ 19.6W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

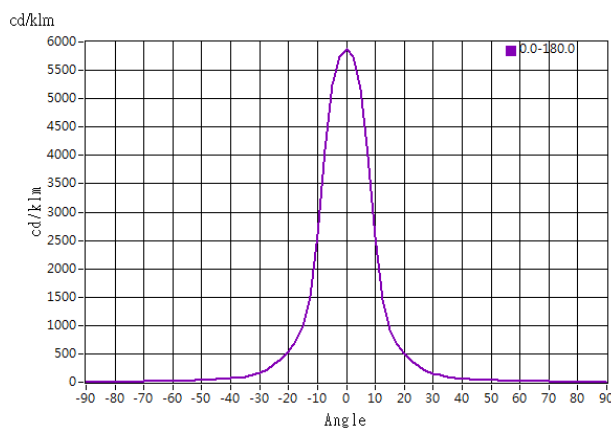




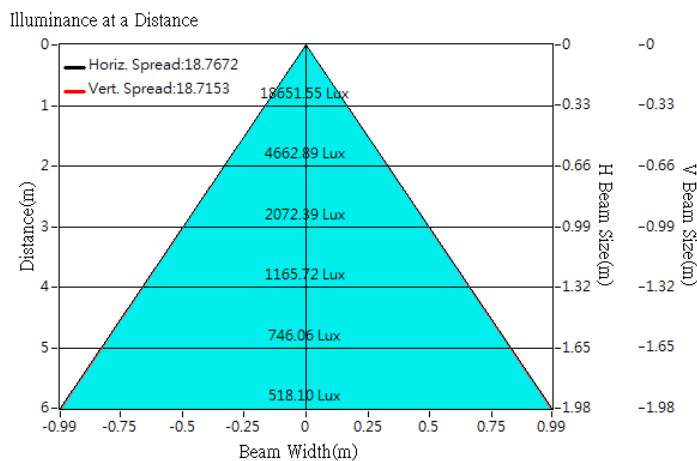
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CREE CMA1825</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	18°		
Field Angle (D10)	38°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3172 lm	Measured @ 24.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

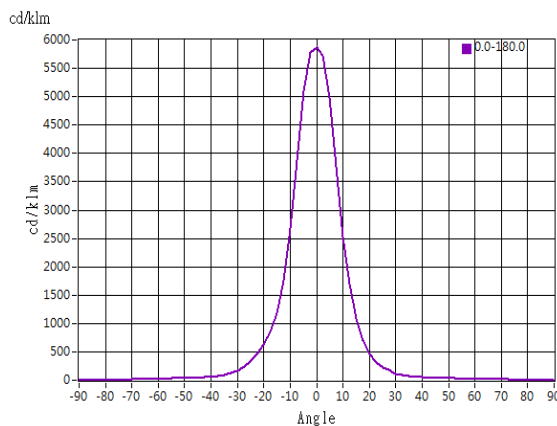




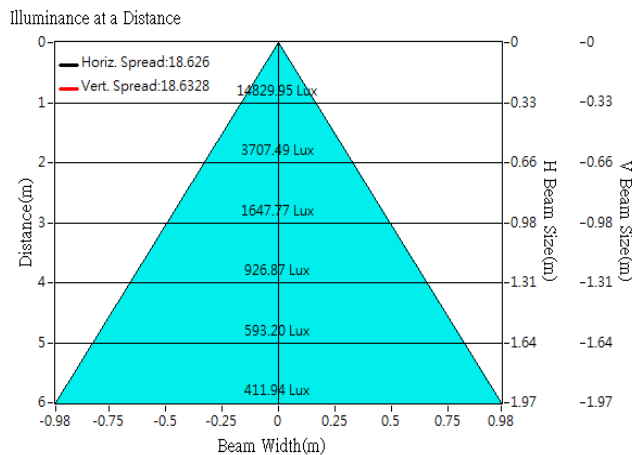
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CREE CXA1830</b>		
LES / LED Size	Φ 14 mm		
FWHM (D50)	19°		
Field Angle (D10)	39°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2526 lm	Measured @ 28.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

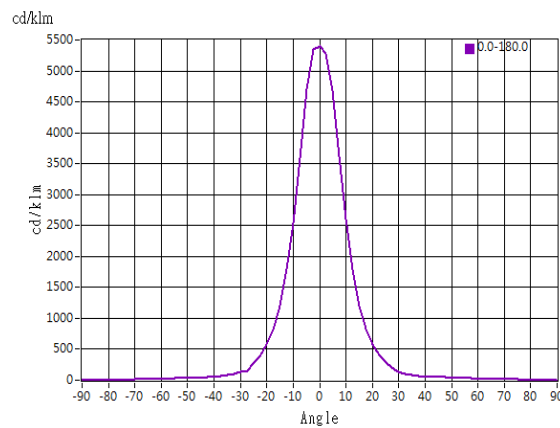




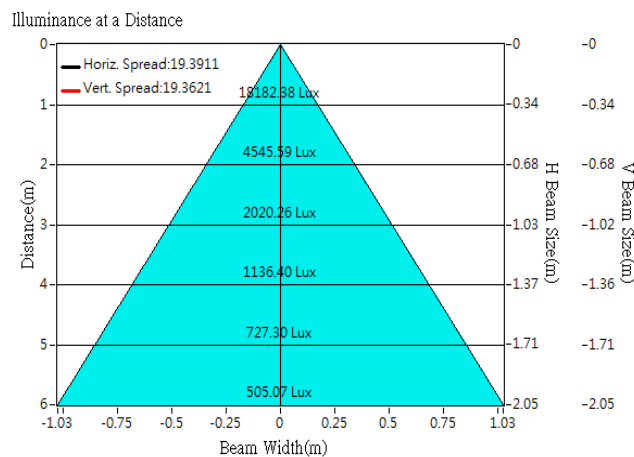
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	CREE CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	19°		
Field Angle (D10)	41°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3371 lm	Measured @ 28.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

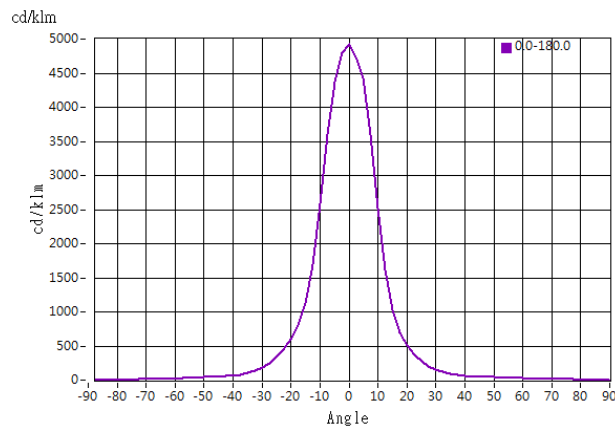




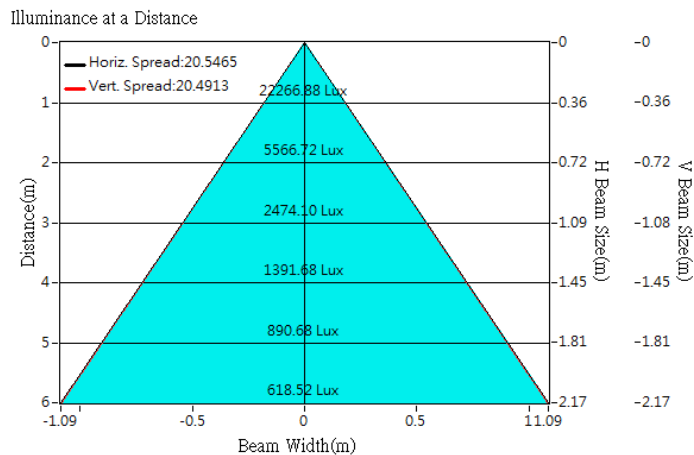
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CREE CMA1840</b>		
LES / LED Size	Φ 14 mm		
FWHM (D50)	21°		
Field Angle (D10)	42°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4529 lm	Measured @ 40.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

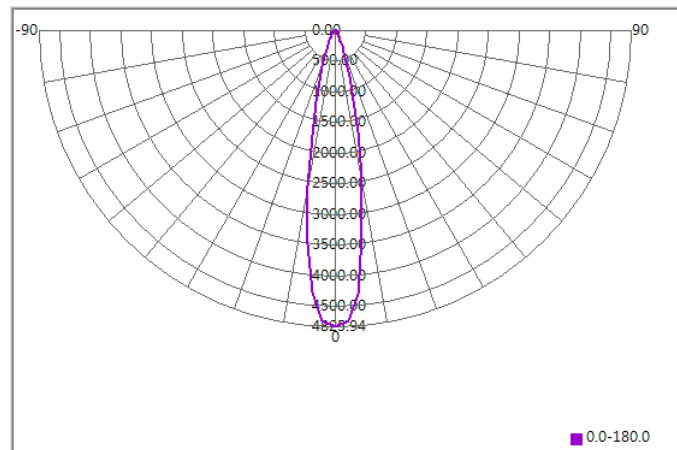




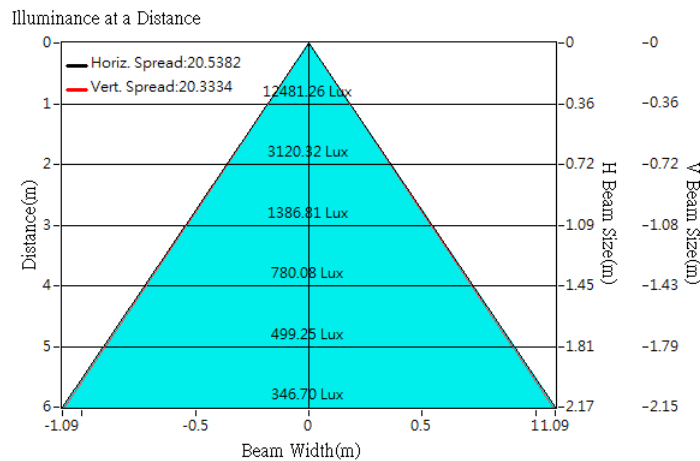
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CMT1922</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	21°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2586 lm	Measured @ 22.0 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

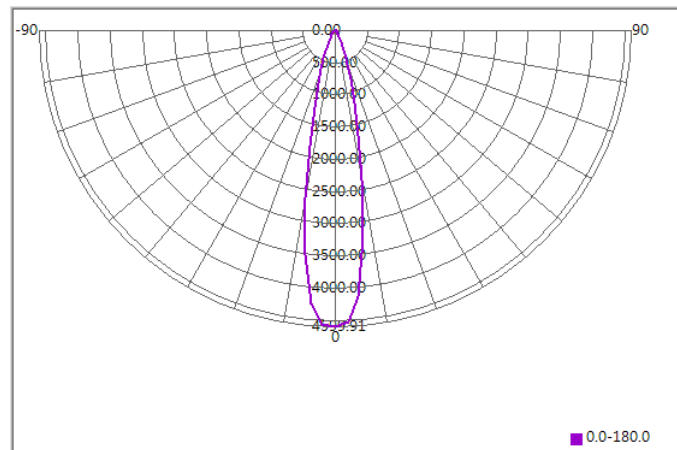




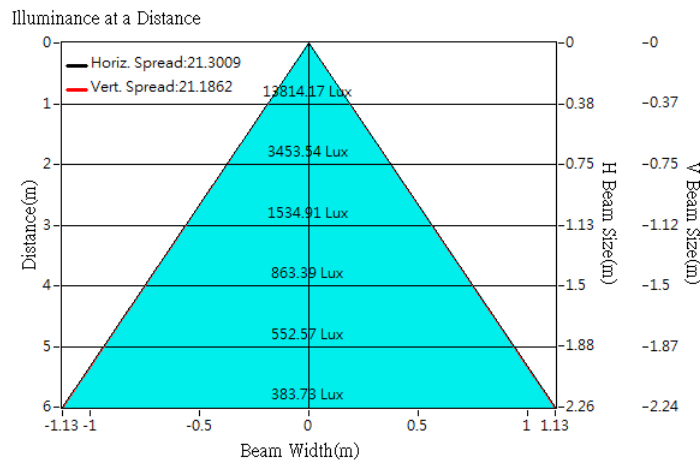
## Optical Characteristics

Model Number	CKO-CH15-075033-4401	<p>"H" definition</p>
LED	<b>CMT1925</b>	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	21°	
Field Angle (D10)	44°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=33 mm	
Luminous Flux	3003 lm	
Material	PC / UL94V2	

## cd/klm

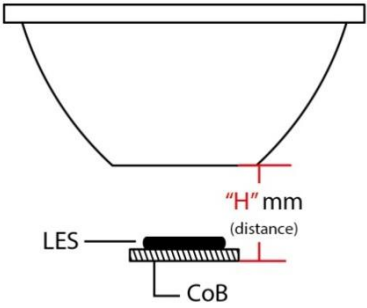


## Illuminance At Distances

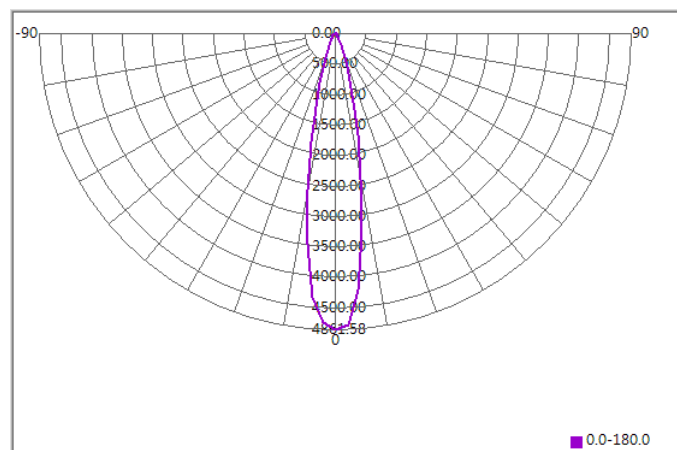




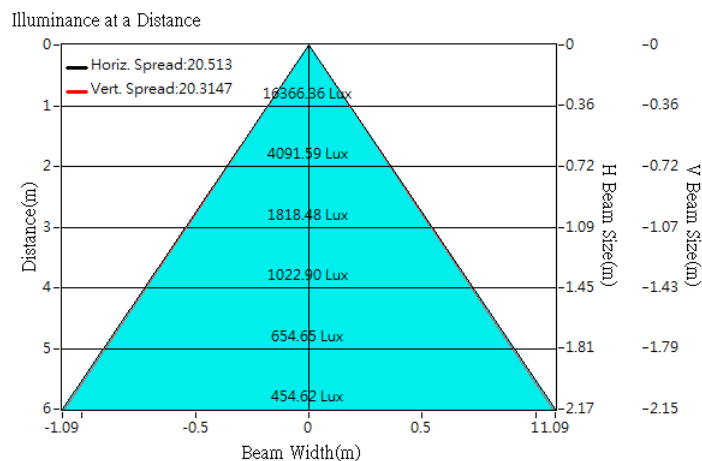
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p> 
LED	<b>CMT1930</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	21°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3366 lm	Measured @ 29.0 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

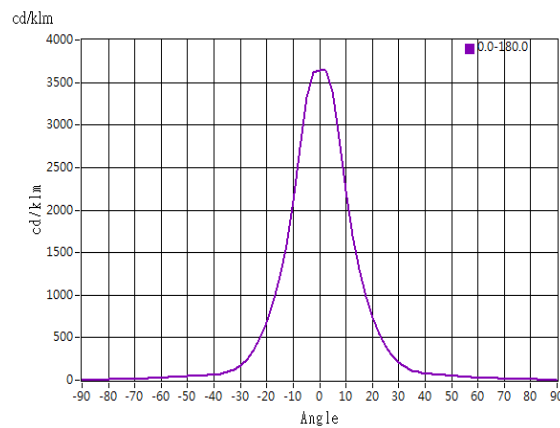




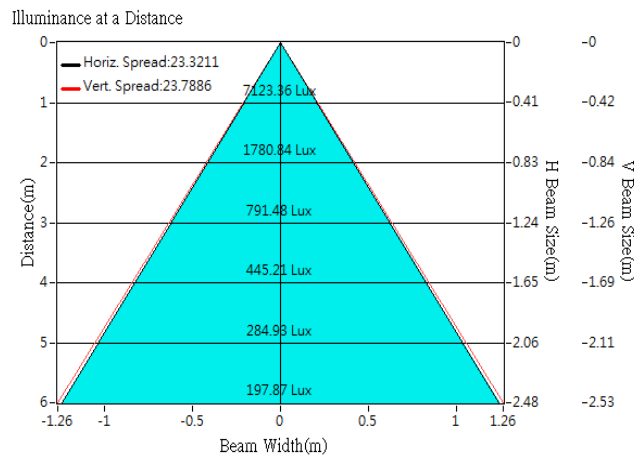
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CREE CXA2520</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	23°		
Field Angle (D10)	50°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1958 lm	Measured @ 20.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

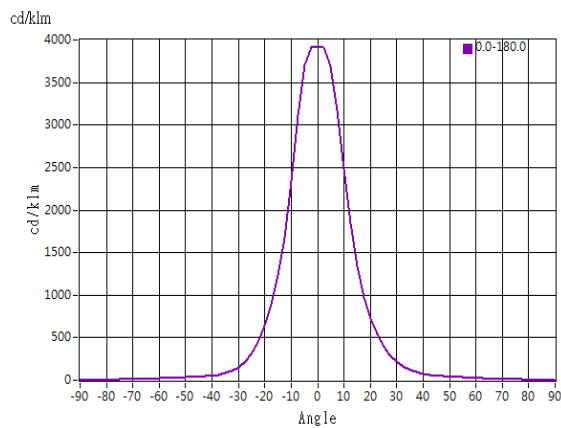




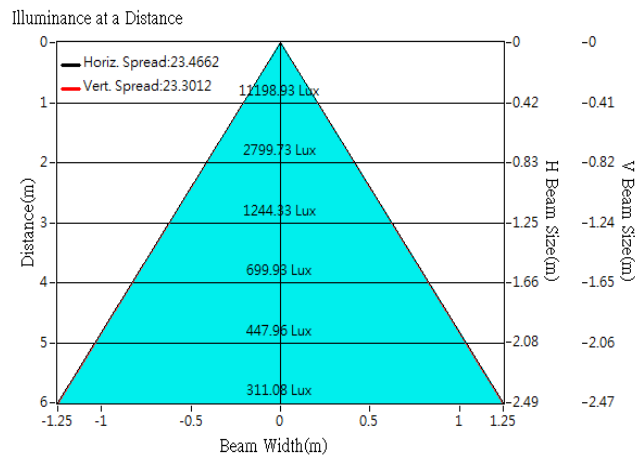
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CREE CXA2530</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	23°		
Field Angle (D10)	49°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2861 lm	Measured @ 29.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

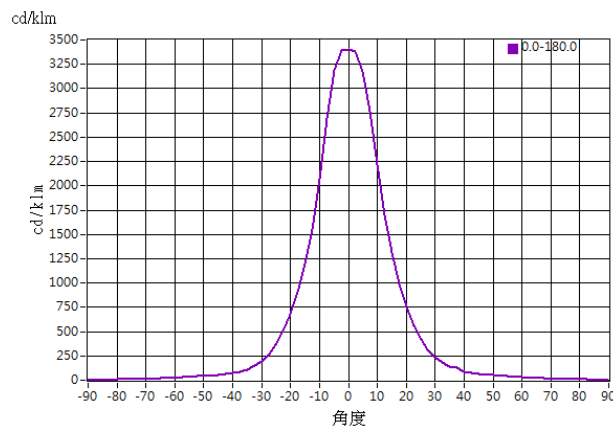




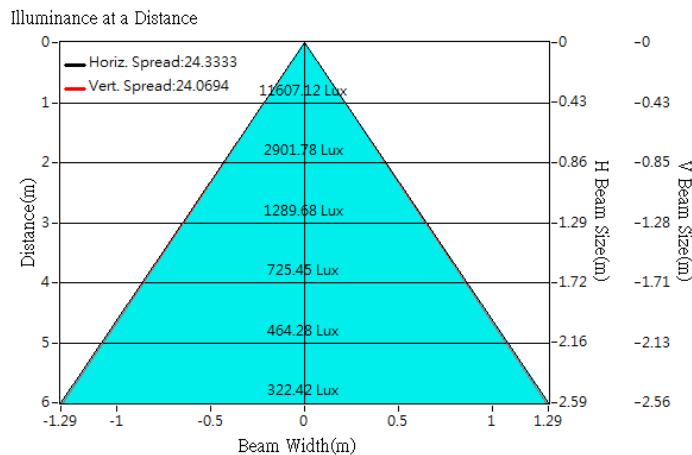
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CREE CXB2530</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	24°		
Field Angle (D10)	53°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3413 lm	Measured @ 27.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

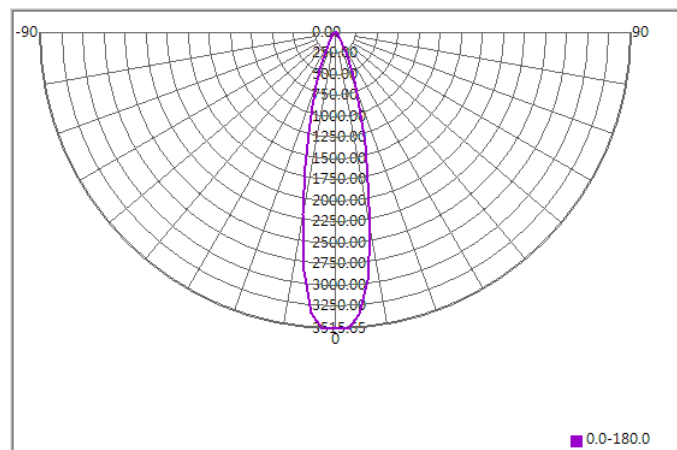




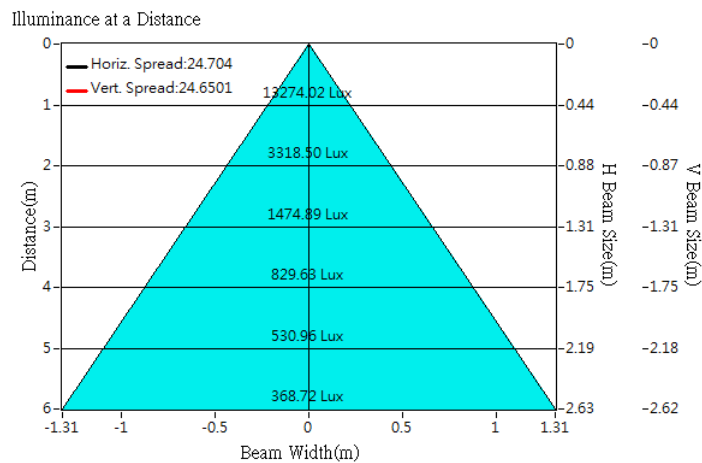
## Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	<b>CXA2540</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3788 lm	Measured @ 39 W	
Material	PC / UL94V2		

## cd/klm

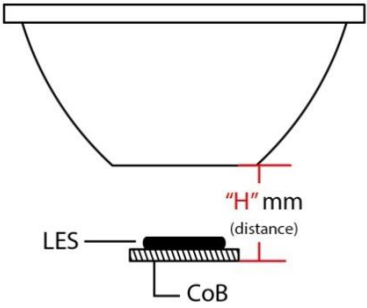


## Illuminance At Distances

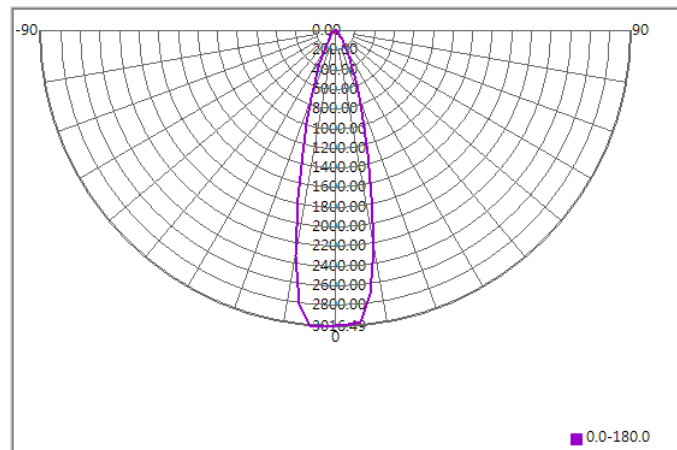




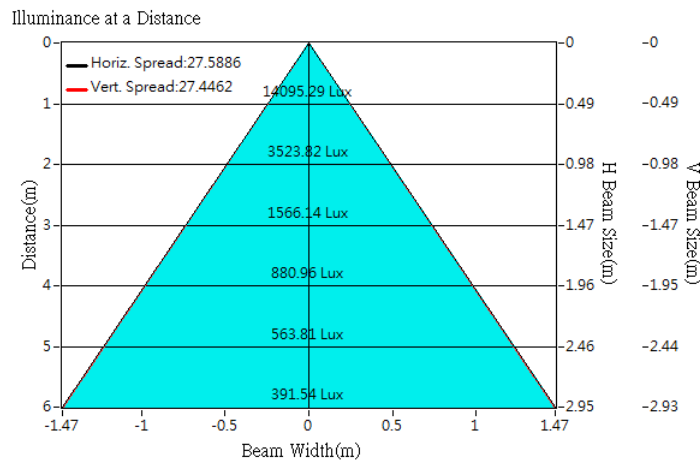
## Optical Characteristics

Model Number	CKO-CH15-075033-4401	<p>"H" definition</p> 	
LED	<b>CXB2540</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	28°		
Field Angle (D10)	55°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4686 lm		Measured @ 38 W
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

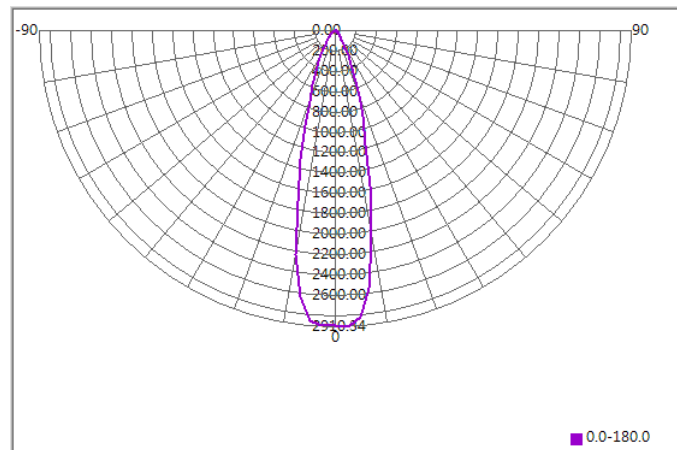




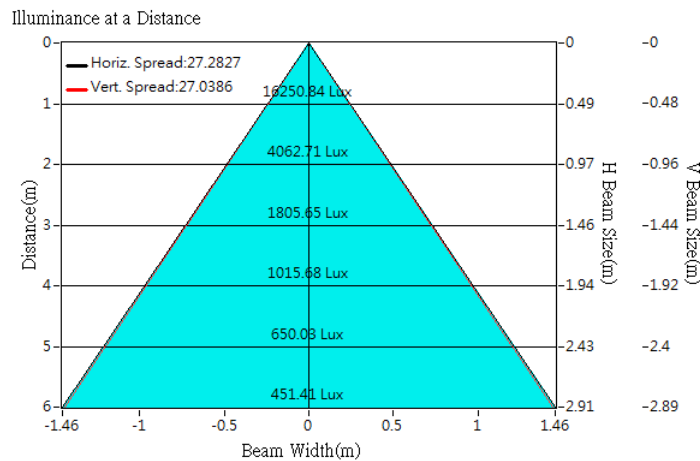
## Optical Characteristics

Model Number	CKO-CH15-075033-4401	<p>"H" definition</p> <p>LES CoB</p>	
LED	<b>CMA2550</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	27°		
Field Angle (D10)	57°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	5597 lm		Measured @ 43.1 W
Material	PC / UL94V2		

## cd/klm

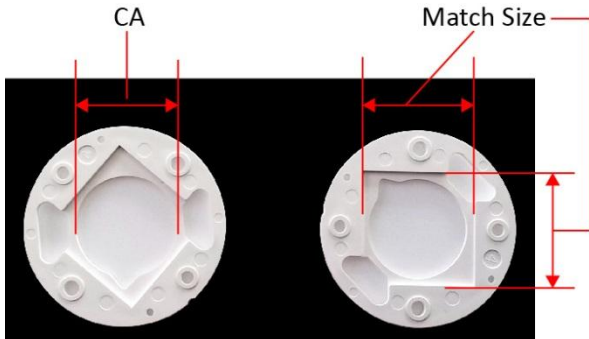


## Illuminance At Distances





## 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