



## Product Model Number

**CKO-CH15-075033-4407**

### ✓ Model Number Definitions

**CKO-XXXX-XXXXXX-XXXX**

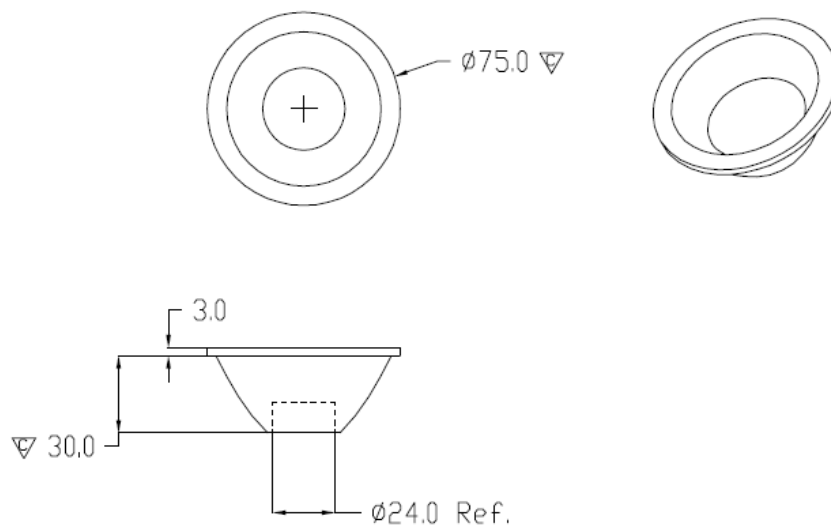


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation  
Ex:  
CH→CoB High Intensity  
CC→CoB Compact  
CS→Soft Shading for CoB LED  
HC→Holder for CoB LED

- 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

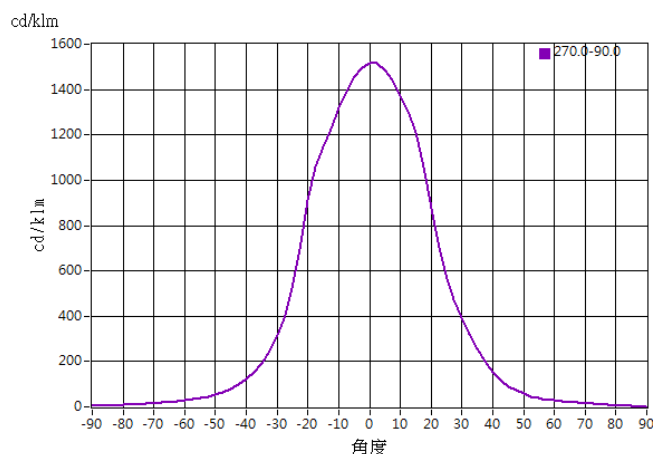
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1507	Φ9	43°	78°
CXB1507	Φ9	40°	76°
CXA1510	Φ9	42°	75°
CXA1512	Φ9	42°	76°
CXB1512	Φ9	42°	76°
CMA1516	Φ9	41°	77°
CXB1520	Φ9	43°	77°
CMT1407	Φ9.8	40°	74°
CMT1412	Φ9.8	40°	75°
CXA1816	Φ12	44°	78°
CXB1816	Φ12	44°	79°
CXA1820	Φ12	43°	78°
CXB1820	Φ12	43°	78°
CMA1825	Φ12	42°	79°
CXA1830	Φ14	43°	78°
CXB1830	Φ14	45°	80°
CMA1840	Φ14	44°	81°
CMT1922	Φ14.5	43°	79°
CMT1925	Φ14.5	44°	80°
CMT1930	Φ14.5	43°	80°
CMT1945	Φ14.5	43°	79°
CXA2520	Φ19	48°	86°
CXA2530	Φ19	47°	84°
CXB2530	Φ19	49°	89°
CXA2540	Φ19	48°	86°
CXB2540	Φ19	47°	86°
CMA2550	Φ19	48°	87°



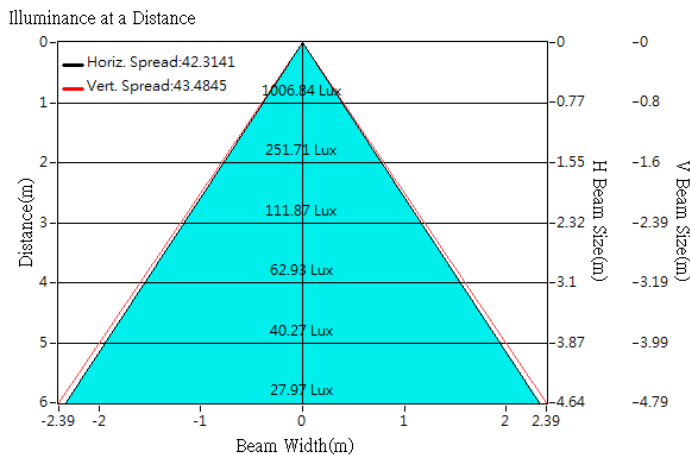
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CXA1507</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	43°		
Field Angle (D10)	78°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	665 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

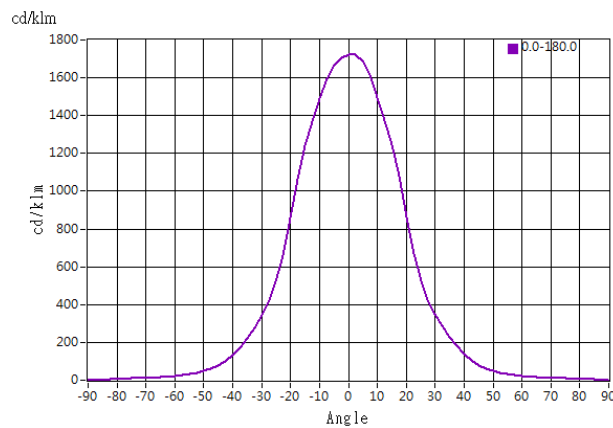




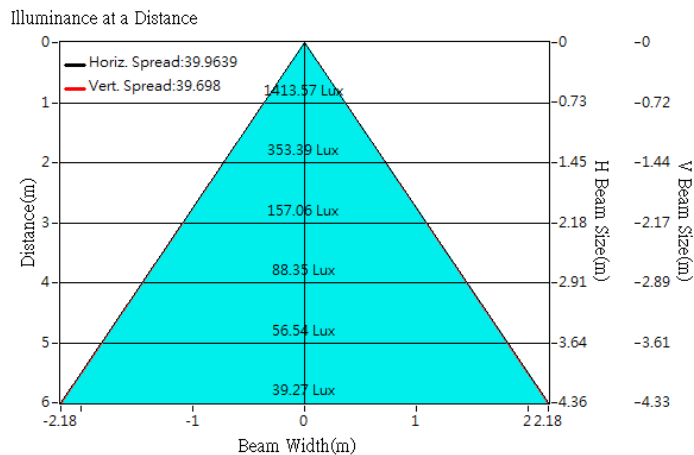
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CXB1507</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	40°		
Field Angle (D10)	76°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	820 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

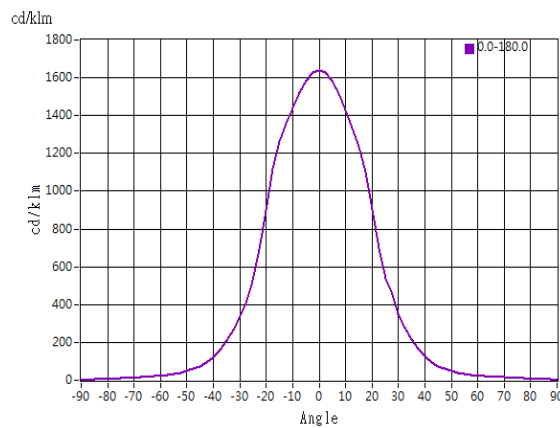




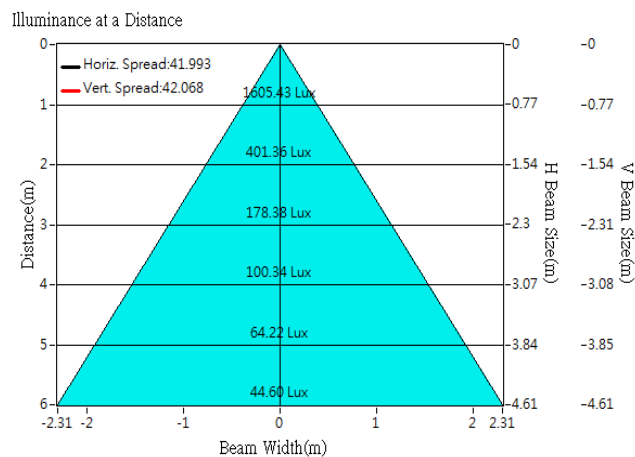
## Optical Characteristics

Model Number	CKO-CH15-075033-4407	<p>"H" definition</p>
LED	<b>CREE CXA1510</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	42°	
Field Angle (D10)	75°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=33 mm	
Luminous Flux	980lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

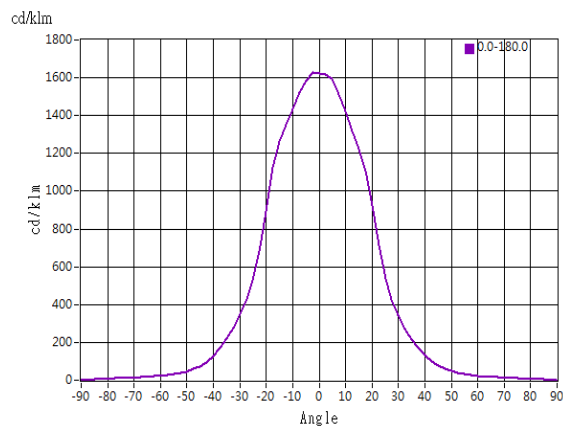




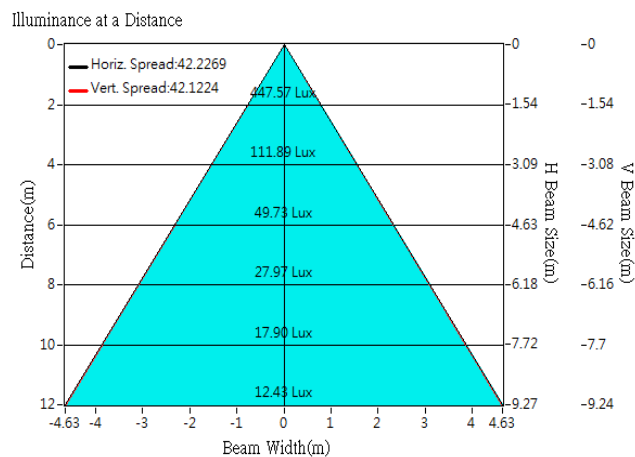
## Optical Characteristics

Model Number	CKO-CH15-075033-4407	<p>"H" definition</p> <p>LES CoB "H" mm (distance)</p>
LED	<b>CREE CXA1512</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	42°	
Field Angle (D10)	76°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=33 mm	
Luminous Flux	1103lm Measured @ 13.2 W	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

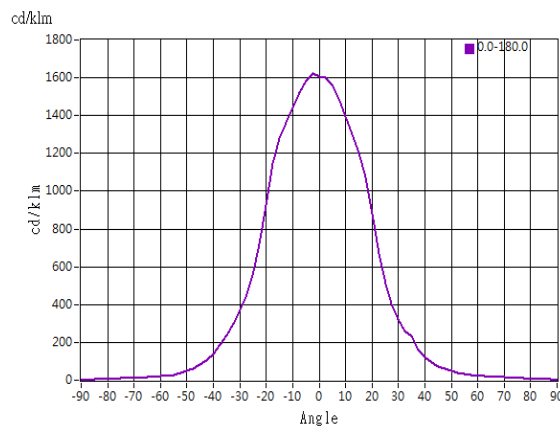




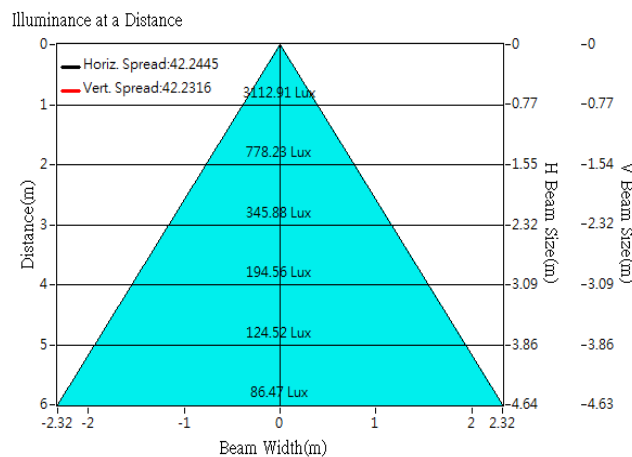
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CREE CXB1512</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	42°		
Field Angle (D10)	76°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1939lm	Measured @ 21.3 W	
Material	PC / UL94V2		

## cd/klm

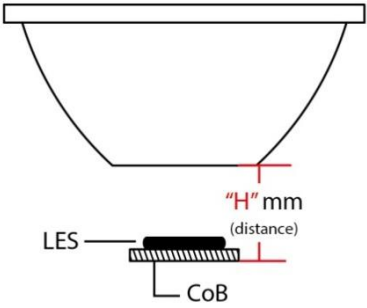


## Illuminance At Distances

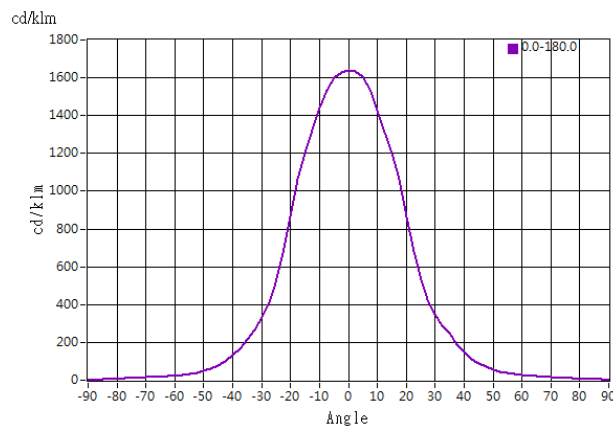




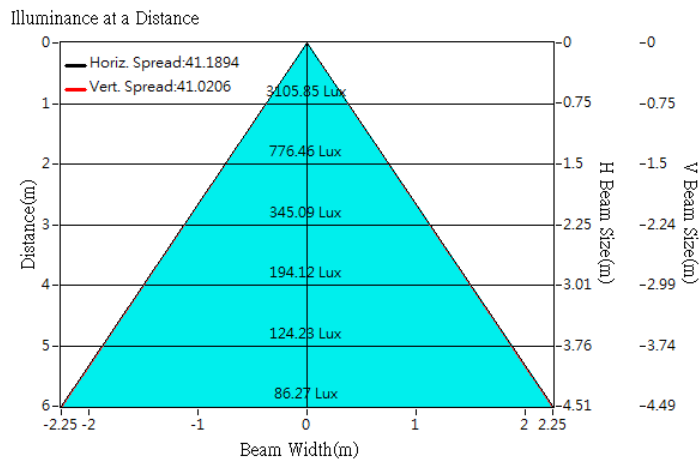
## Optical Characteristics

Model Number	CKO-CH15-075033-4407	<p>"H" definition</p> 
LED	<b>CMA1516</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	41°	
Field Angle (D10)	77°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=33 mm	
Luminous Flux	1895 lm      Measured @ 15.9 W	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

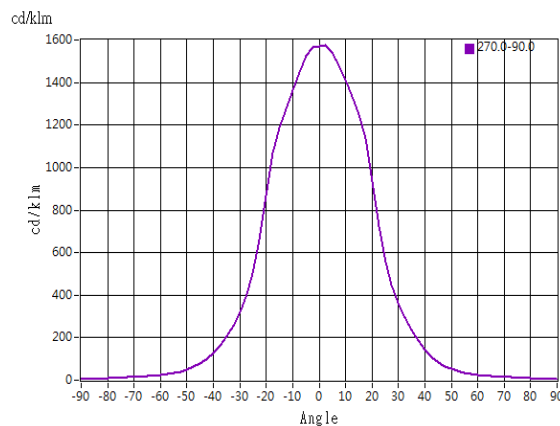




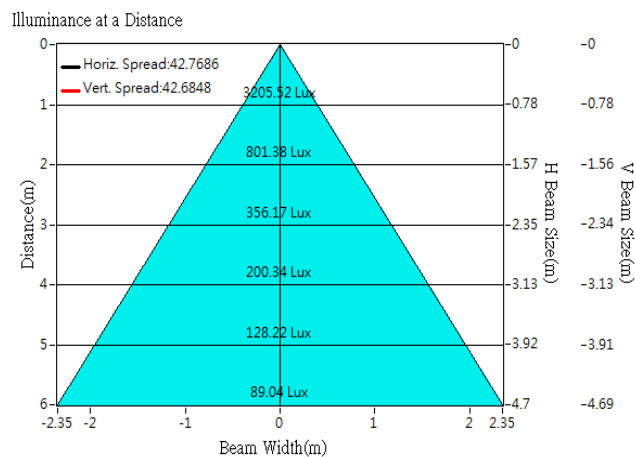
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CREE CXB1520</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	43°		
Field Angle (D10)	77°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2041 lm	Measured @ 16.7W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

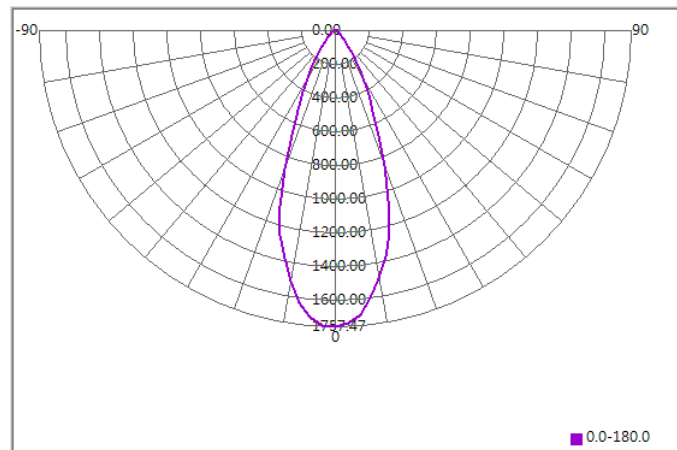




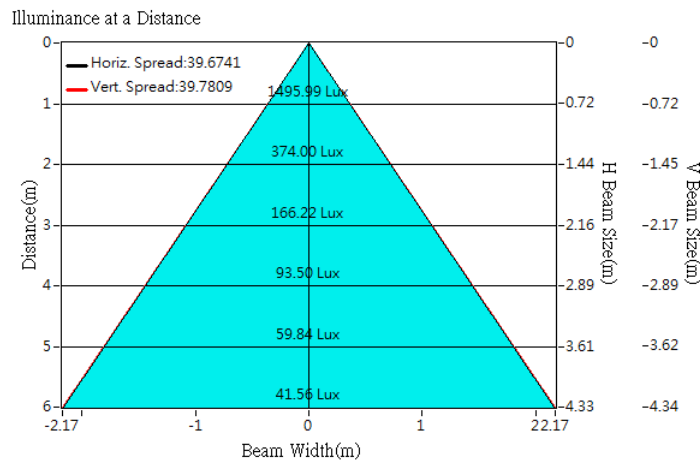
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMT1407</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	40°		
Field Angle (D10)	74°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	851 lm	Measured @ 7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

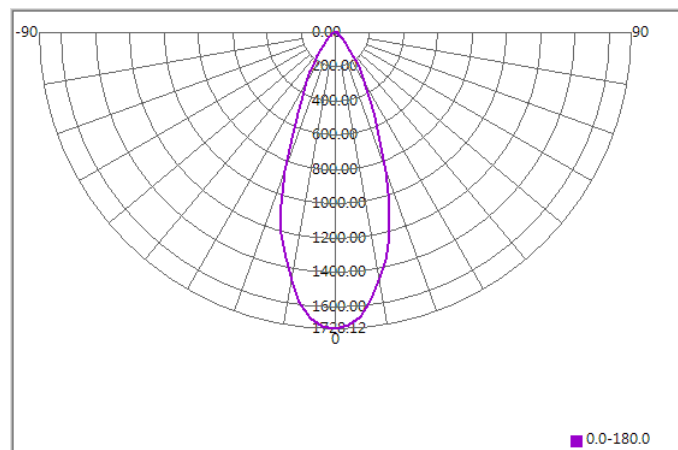




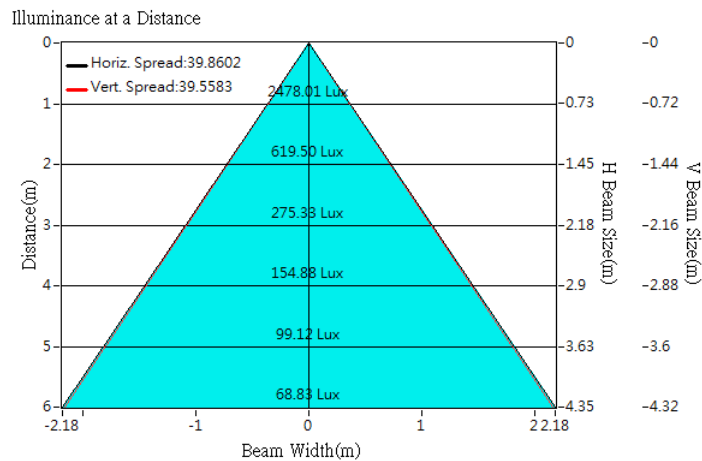
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CMT1412</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	40°		
Field Angle (D10)	75°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1434 lm	Measured @12.2W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

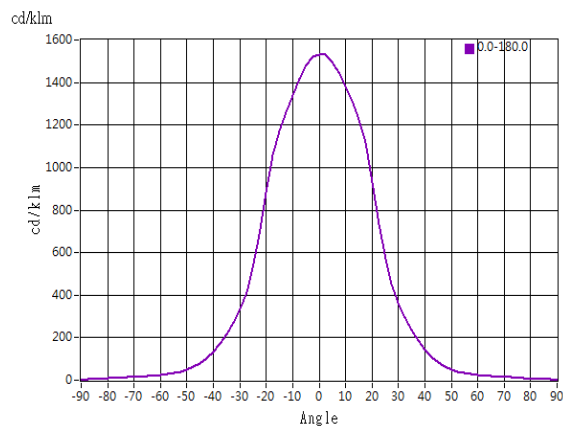




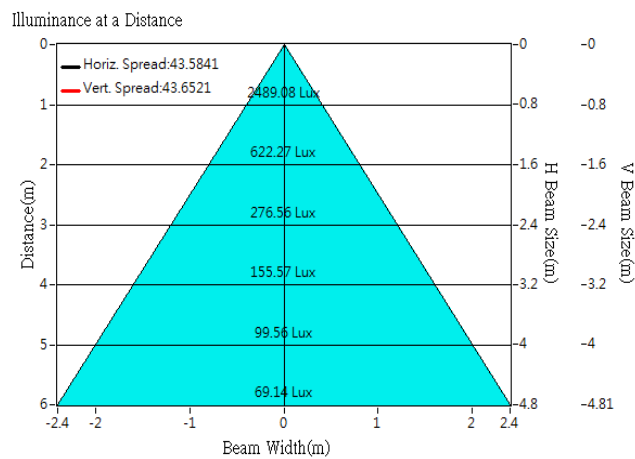
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CREE CXA1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	44°		
Field Angle (D10)	78°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1628 lm	Measured @ 16.7W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

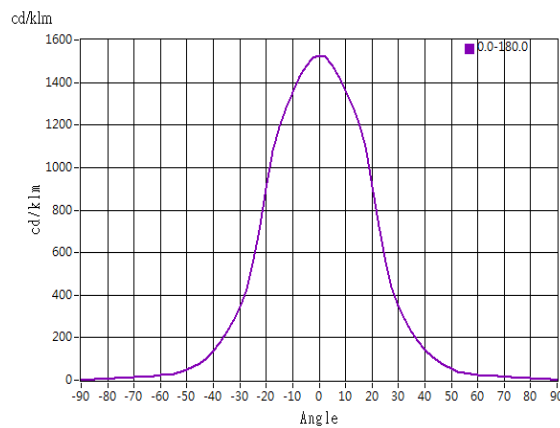




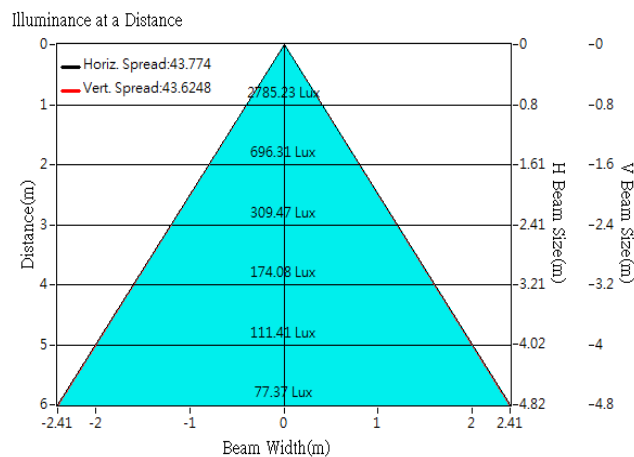
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	44°		
Field Angle (D10)	79°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1826 lm	Measured @ 15.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

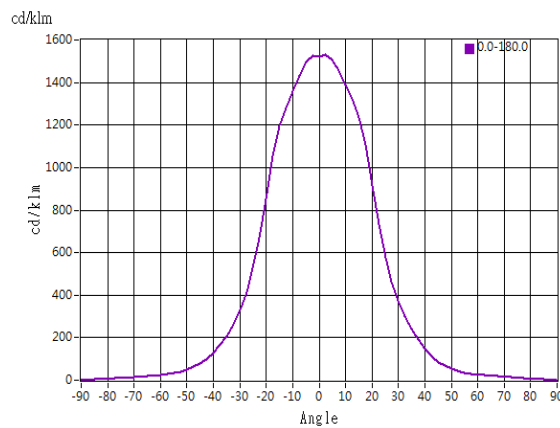




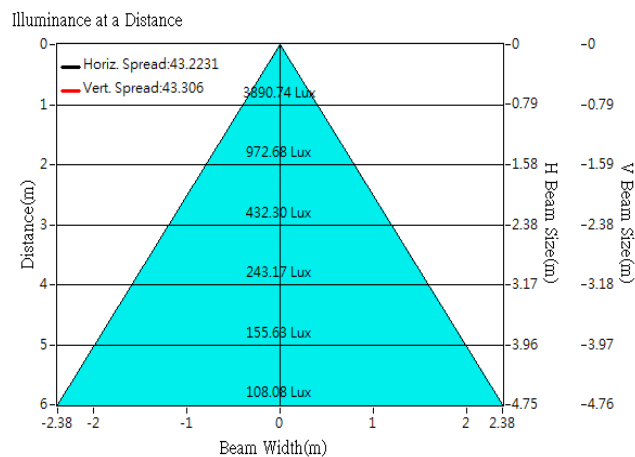
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CREE CXA1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	43°		
Field Angle (D10)	78°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2555 lm	Measured @ 30.9W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

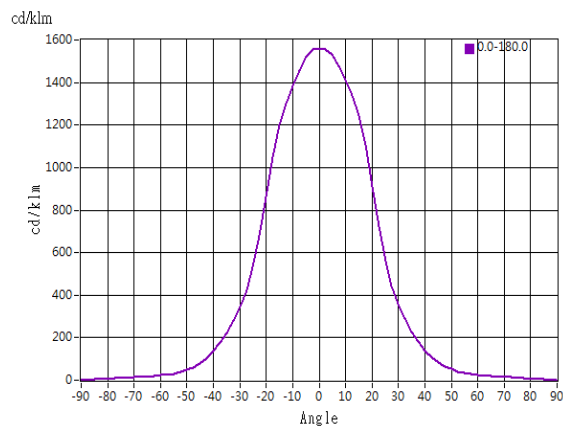




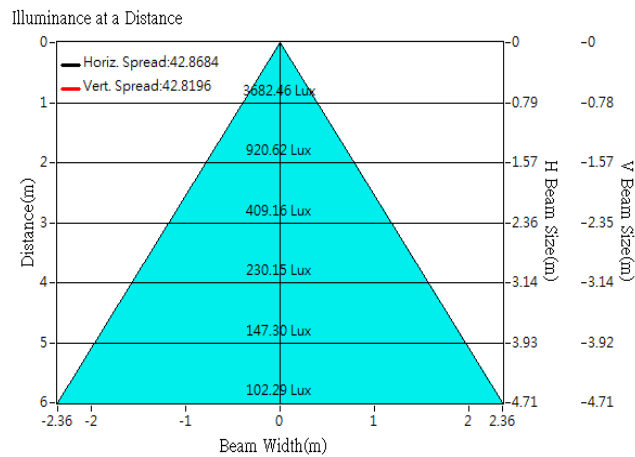
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CREE CXB1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	43°		
Field Angle (D10)	78°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2368 lm	Measured @ 19.6W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

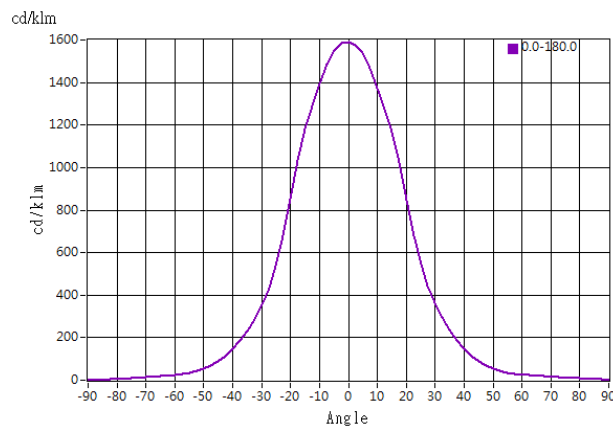




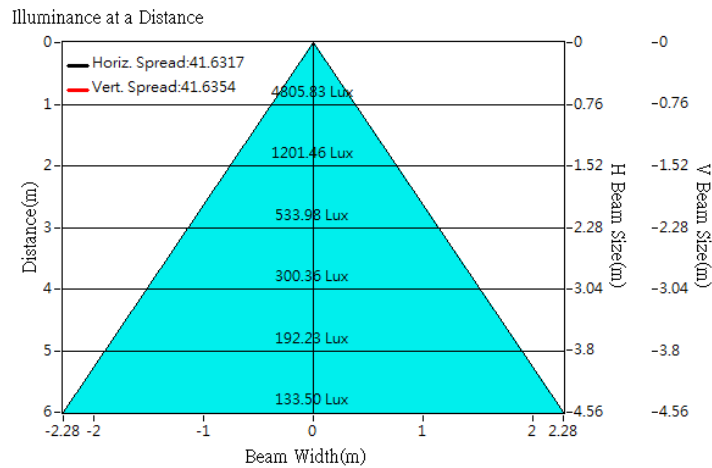
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CMA1825</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	42°		
Field Angle (D10)	79°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3022 lm	Measured @ 24.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

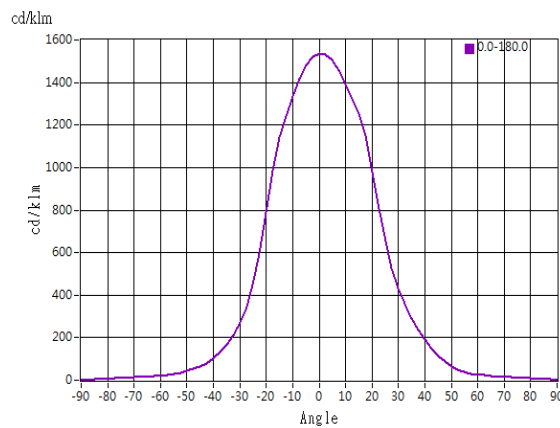




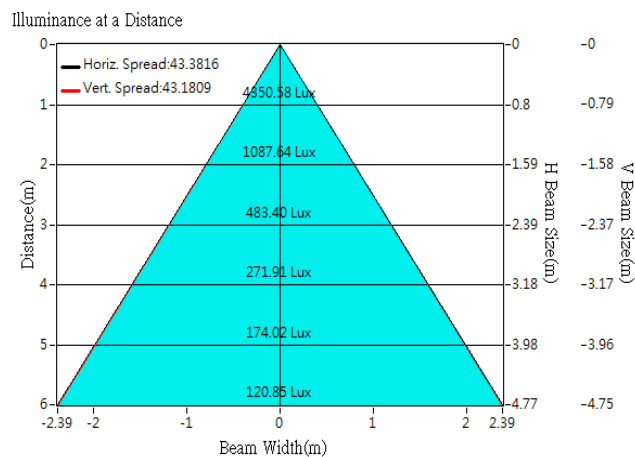
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CREE CXA1830</b>		
LES / LED Size	Φ 14 mm		
FWHM (D50)	43°		
Field Angle (D10)	78°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2834 lm	Measured @ 29.0 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

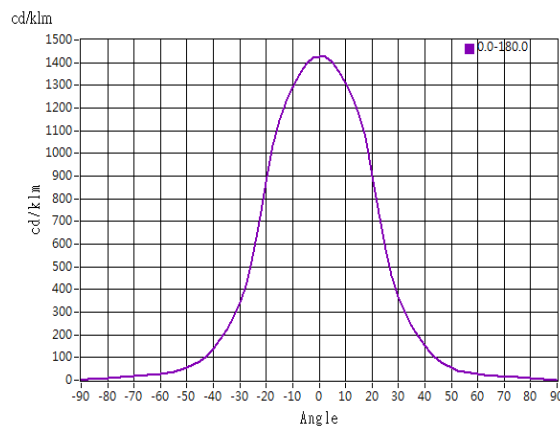




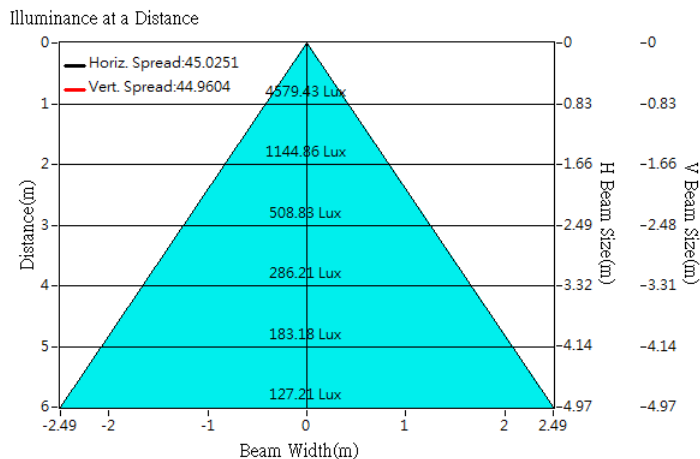
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	CREE CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	45°		
Field Angle (D10)	80°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3207 lm	Measured @ 28.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

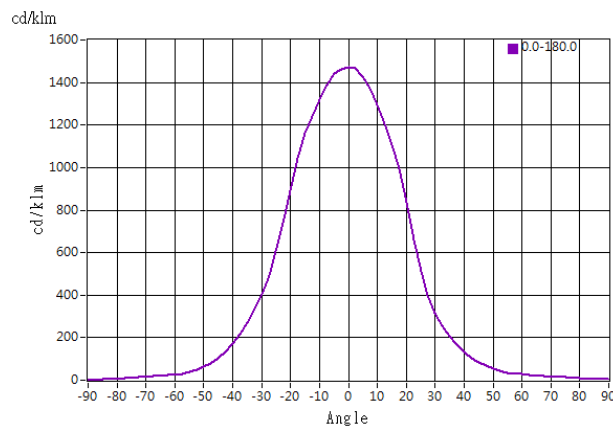




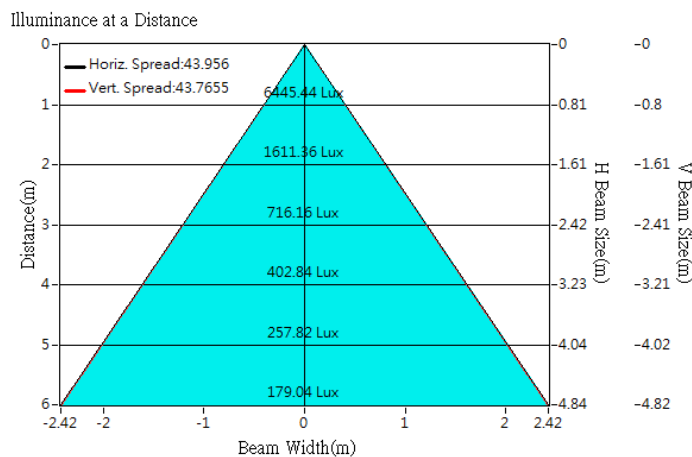
## Optical Characteristics

Model Number	CKO-CH15-075033-4407	<p>"H" definition</p>
LED	<b>CMA1840</b>	
LES / LED Size	Φ 14 mm	
FWHM (D50)	44°	
Field Angle (D10)	81°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=33 mm	
Luminous Flux	4374 lm	
Material	PC / UL94V2	

## cd/klm

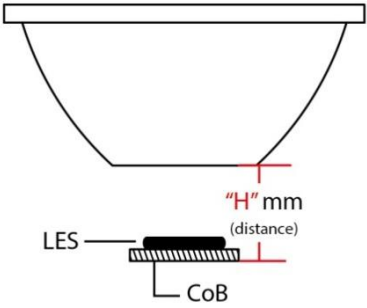


## Illuminance At Distances

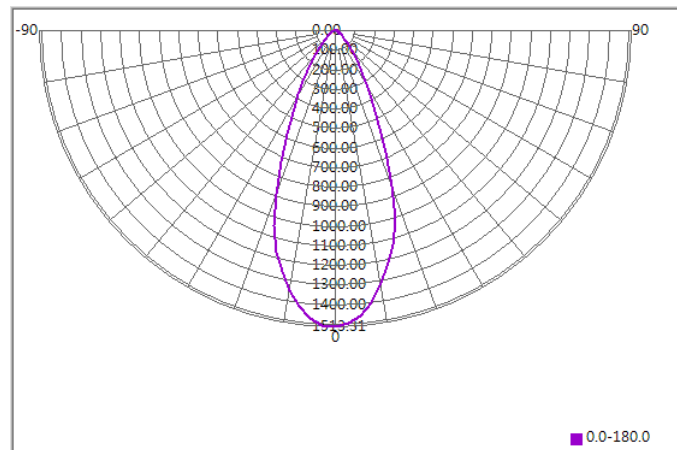




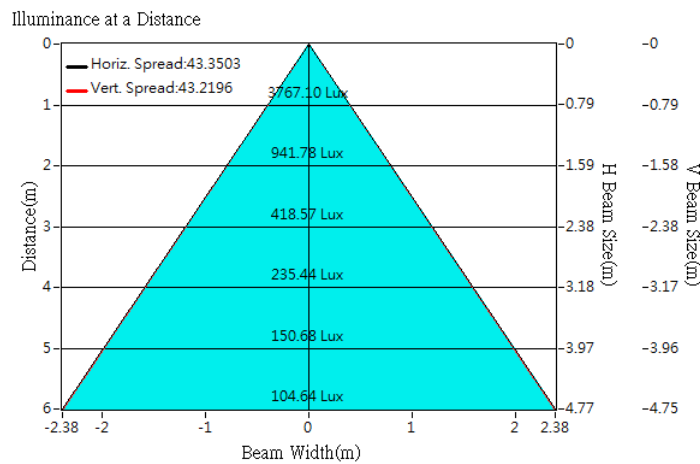
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p> 
LED	<b>CMT1922</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	43°		
Field Angle (D10)	79°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2489 lm	Measured @ 22 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

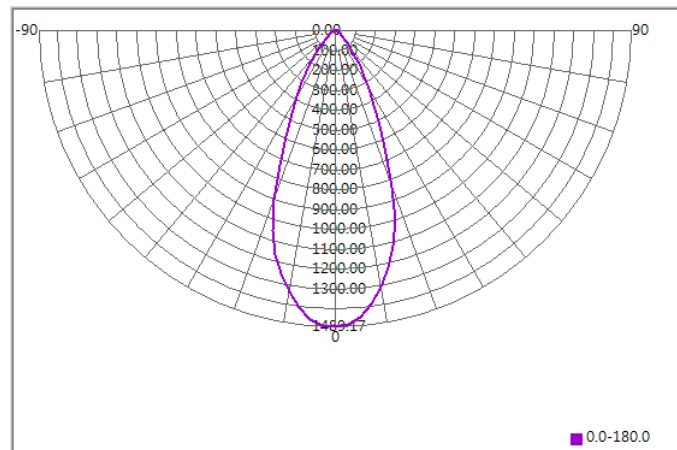




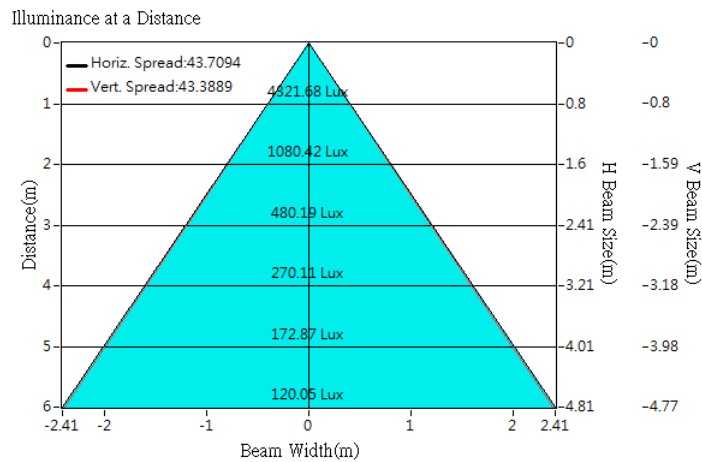
## Optical Characteristics

Model Number	CKO-CH15-075033-4407	<p>"H" definition</p>
LED	<b>CMT1925</b>	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	44°	
Field Angle (D10)	80°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=33 mm	
Luminous Flux	2902 lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

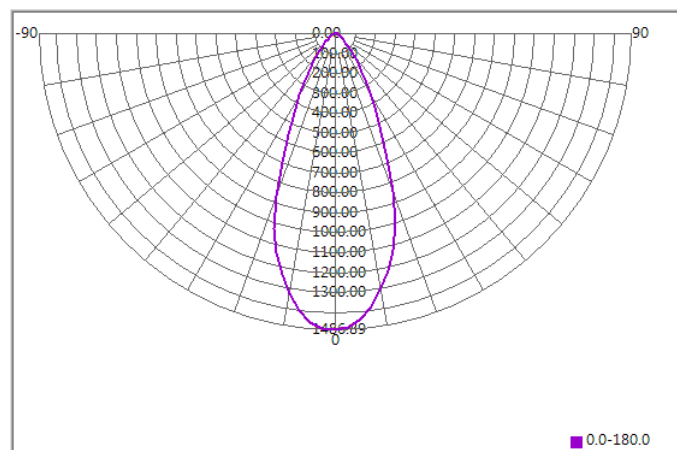




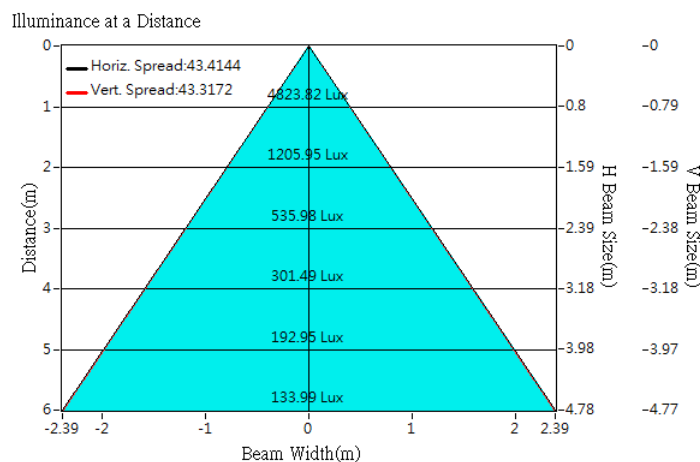
## Optical Characteristics

Model Number	CKO-CH15-075033-4407	<p>"H" definition</p>
LED	<b>CMT1930</b>	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	43°	
Field Angle (D10)	80°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=33 mm	
Luminous Flux	3244 lm	
Material	PC / UL94V2	

## cd/klm

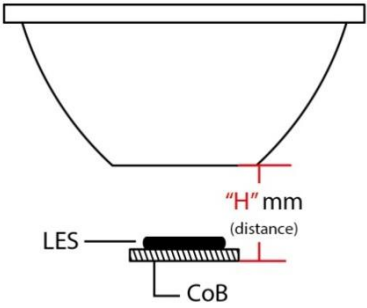


## Illuminance At Distances

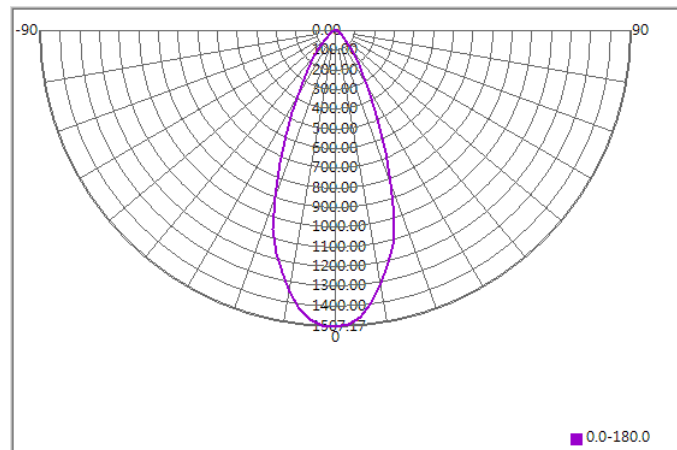




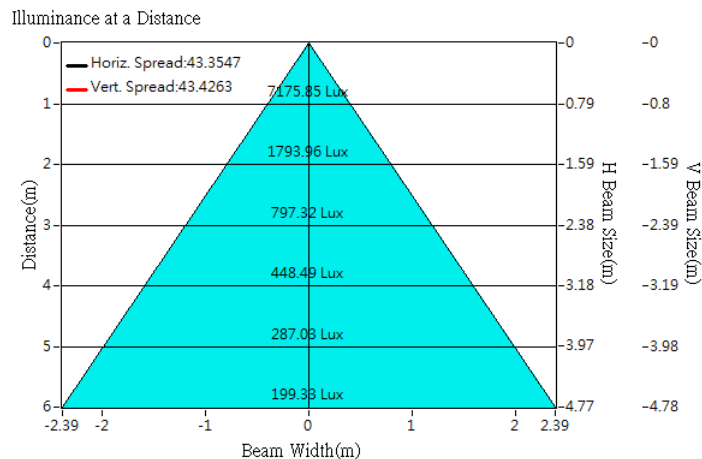
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p> 
LED	<b>CMT1945</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	43°		
Field Angle (D10)	79°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4761 lm	Measured @ 44 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

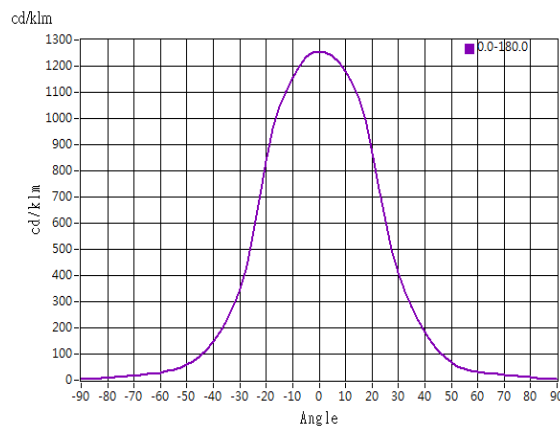




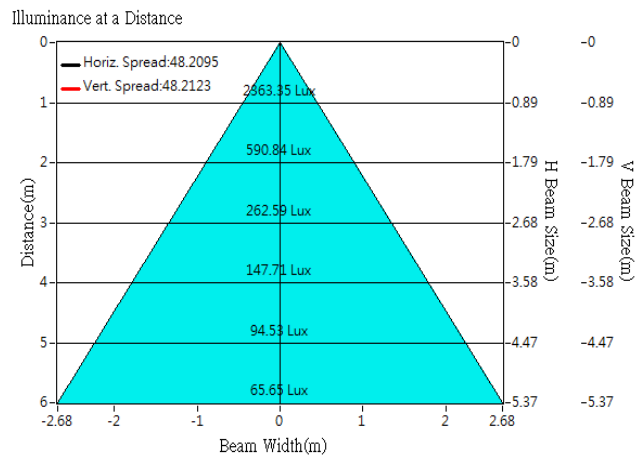
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CREE CXA2520</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	48°		
Field Angle (D10)	86°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1890 lm	Measured @ 20.2 W	
Material	PC / UL94V2		

## cd/klm

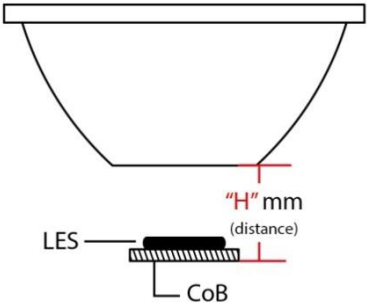


## Illuminance At Distances

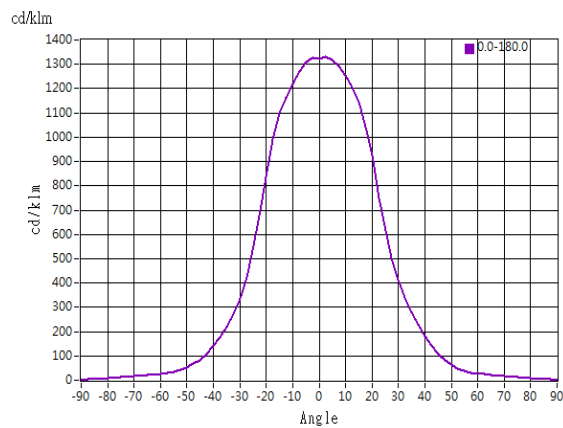




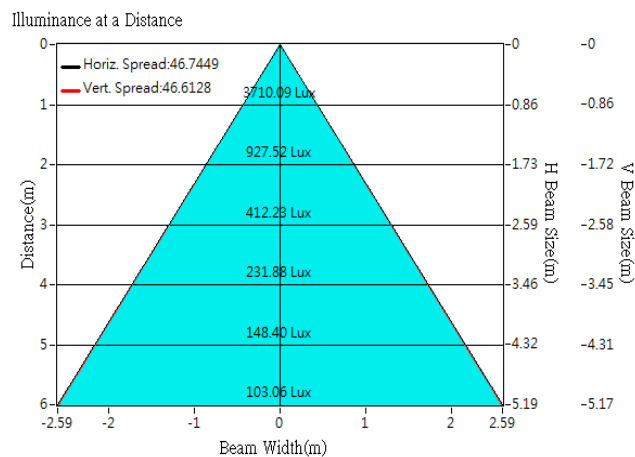
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p> 
LED	<b>CREE CXA2530</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	47°		
Field Angle (D10)	84°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2802 lm	Measured @ 29.8 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

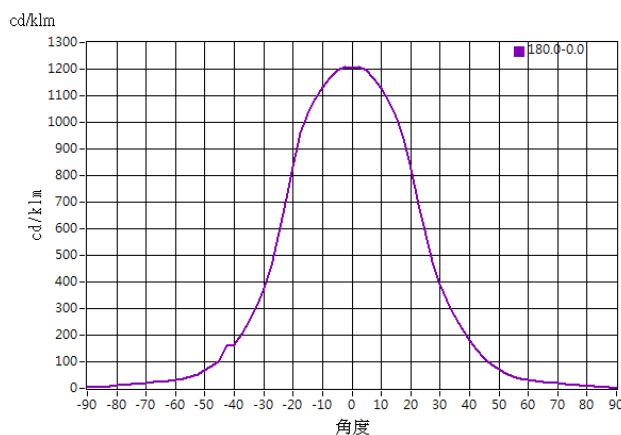




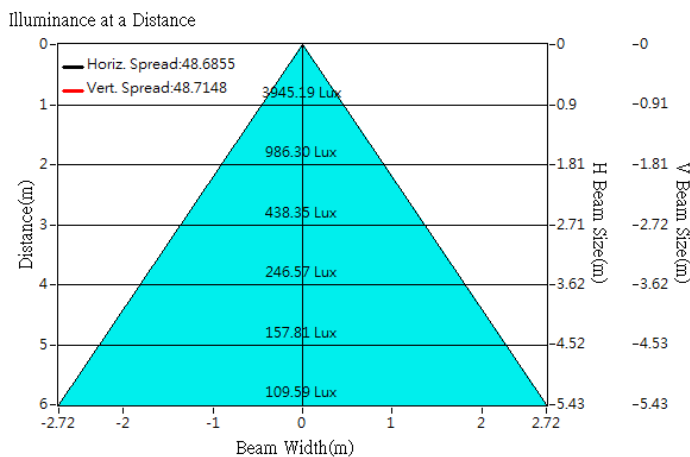
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	CXB2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	49°		
Field Angle (D10)	89°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3272 lm	Measured @ 27.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

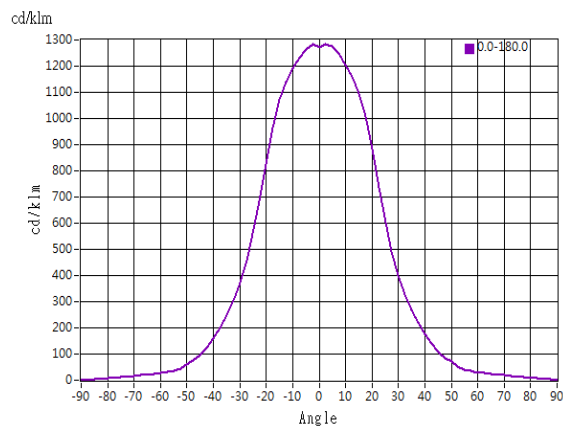




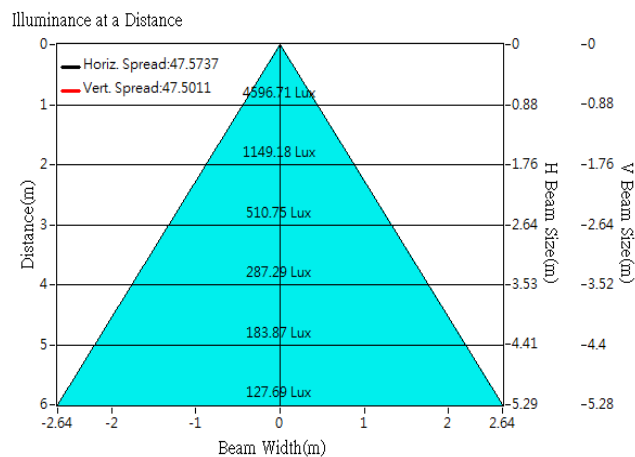
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CREE CXA2540</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	48°		
Field Angle (D10)	86°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3612 lm	Measured @ 39.8 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

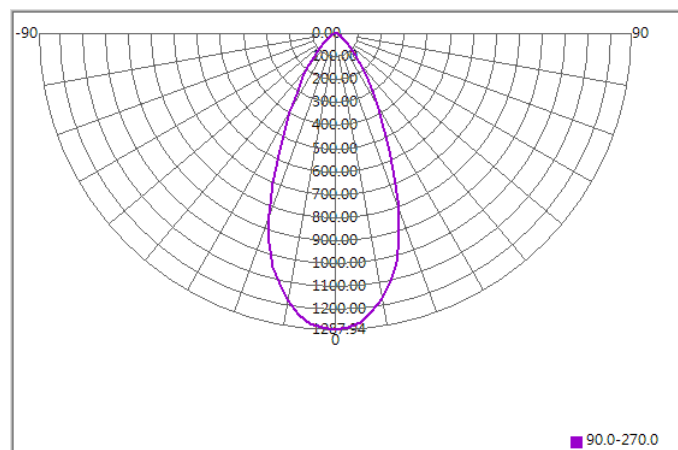




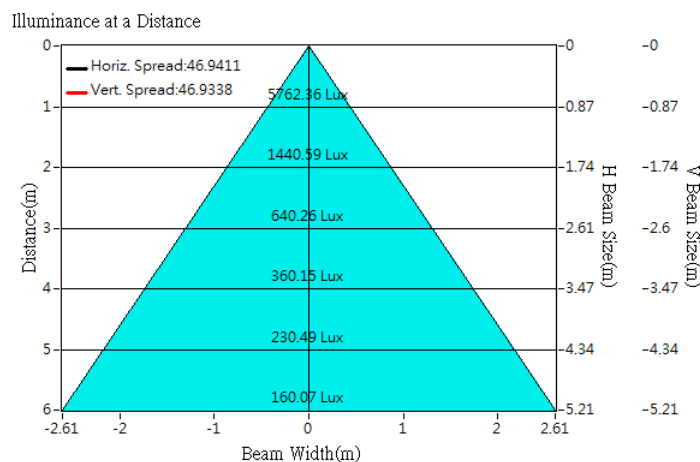
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p> <p>LES CoB</p>
LED	CXB2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	48°		
Field Angle (D10)	86°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4474 lm	Measured @ 38 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

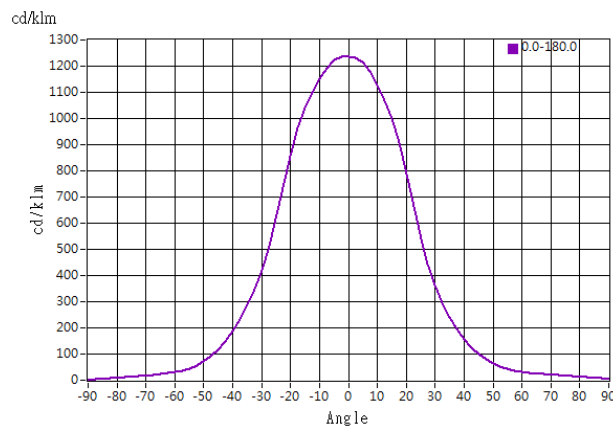




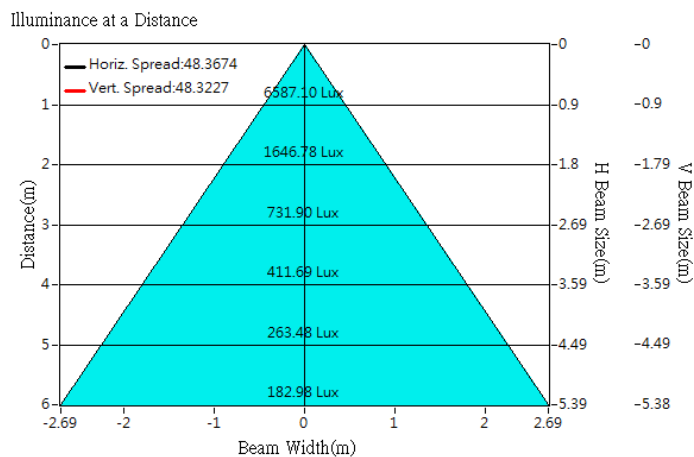
## Optical Characteristics

Model Number	CKO-CH15-075033-4407		<p>"H" definition</p>
LED	<b>CMA2550</b>		
LES / LED Size	Φ 19 mm		
FWHM (D50)	48°		
Field Angle (D10)	87°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	5332 lm	Measured @ 43.2 W	
Material	PC / UL94V2		

## cd/klm

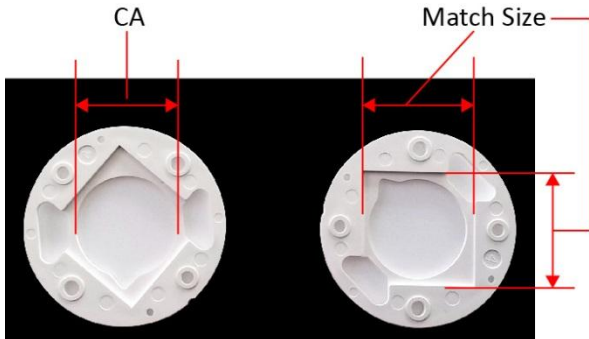


## Illuminance At Distances





## 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