



Product Model Number

CKO-CH15-110058-3801

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

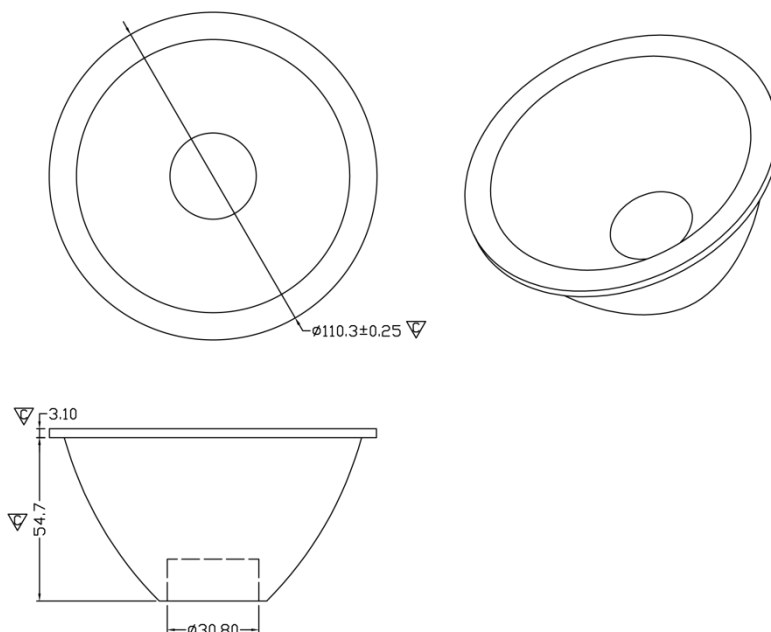


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : **Φ110 x 58**



▽:Critical Dimension



✓ Optical Characteristics – Angle Performances

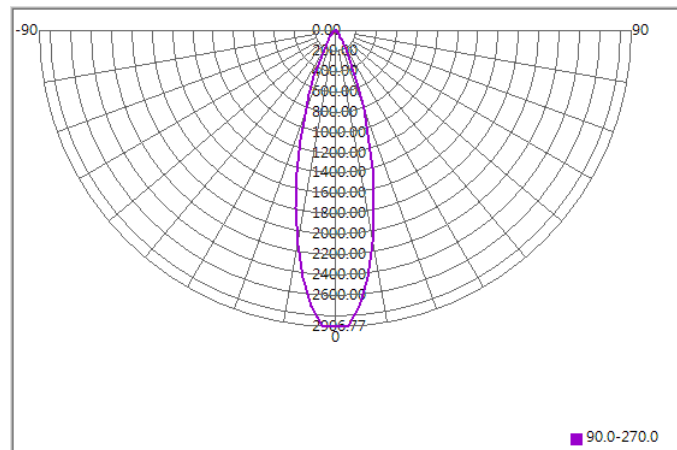
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1820	Φ12	30°	57°
CXB1820	Φ12	29°	57°
CMA1825	Φ12	31°	59°
CXA1830	Φ14	30°	58°
CXB1830	Φ14	34°	61°
CMA1840	Φ14	32°	60°
CMT1922	Φ14.5	31°	59°
CMT1925	Φ14.5	31°	58°
CMT1930	Φ14.5	32°	59°
CMT1945	Φ14.5	31°	60°
CXA2520	Φ19	36°	65°
CXA2530	Φ19	35°	63°
CXB2530	Φ19	36°	65°
CXA2540	Φ19	35°	62°
CXB2540	Φ19	34°	63°
CMA2550	Φ19	36°	65°
CMT2850	Φ22	34°	65°
CMT2890	Φ22	37°	66°
CXA3050	Φ23	38°	68°
CXB3050	Φ23	40°	70°
CXA3070	Φ23	38°	68°
CMA3090	Φ23	39°	70°



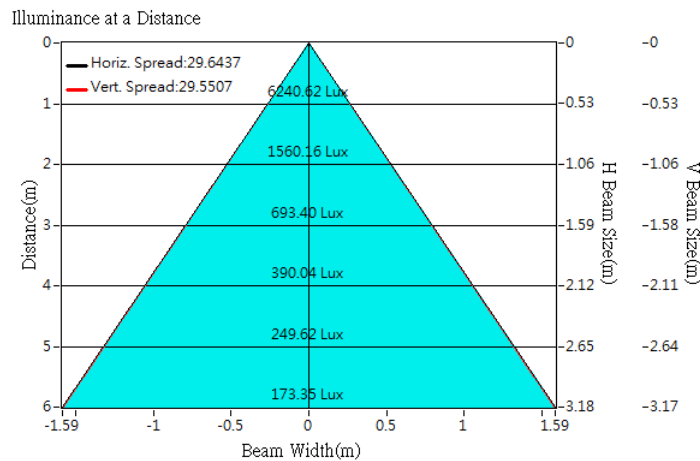
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	30°		
Field Angle (D10)	57°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2146 lm	Measured @ 20.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

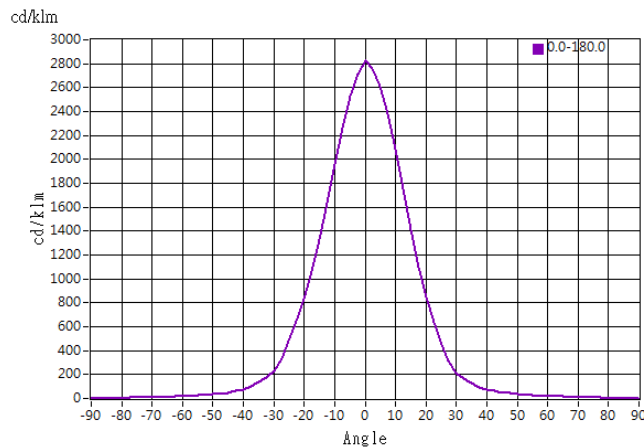




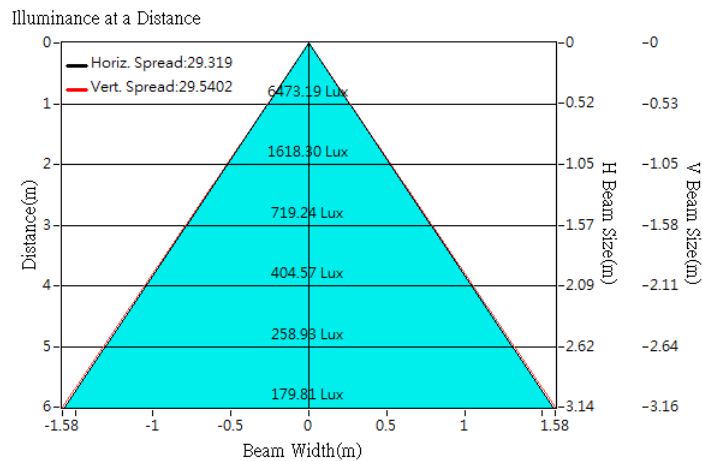
Optical Characteristics

Model Number	CKO-CH15-110058-3801	<p>"H" definition</p> <p>LES CoB</p>
LED	CXB1820	
LES / LED Size	Φ 12 mm	
FWHM (D50)	29°	
Field Angle (D10)	57°	
H (distance)	4 mm	
Dimension	Φ =110 mm, Thickness=58 mm	
Luminous Flux	2292 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

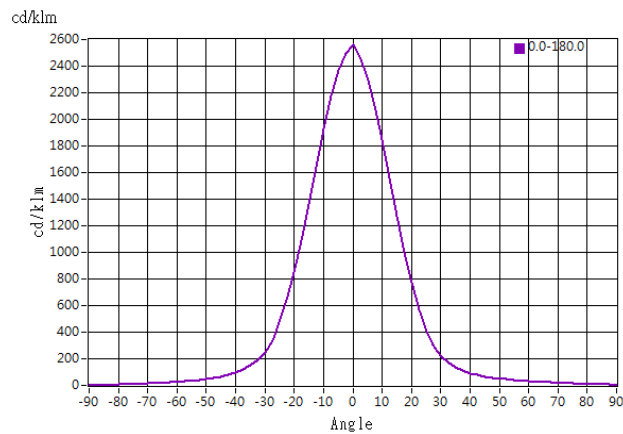




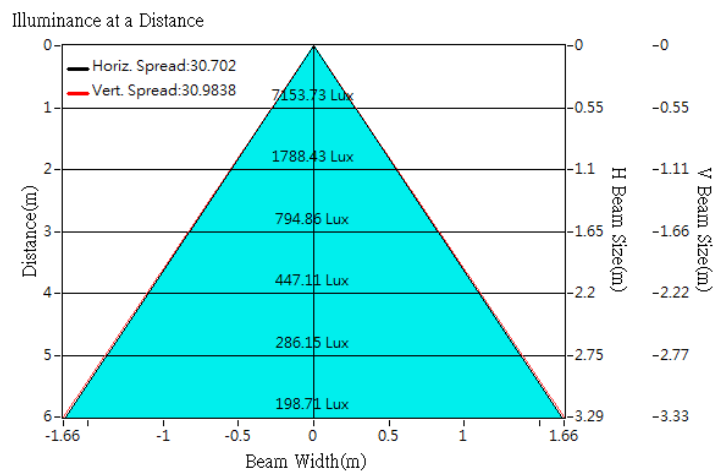
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	31°		
Field Angle (D10)	59°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2796 lm	Measured @ 24.9 W	
Material	PC / UL94V2		

cd/klm

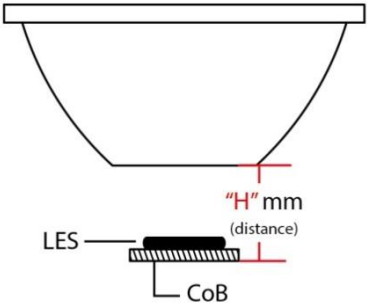


Illuminance At Distances

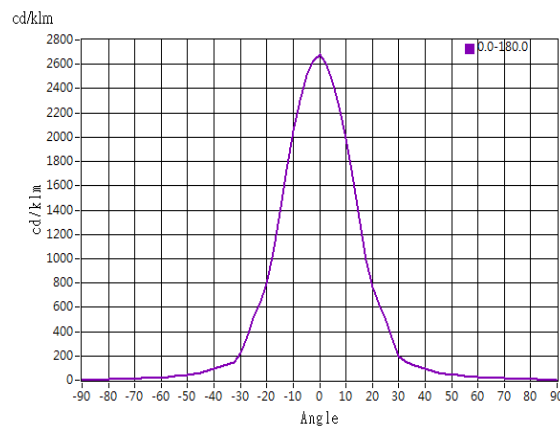




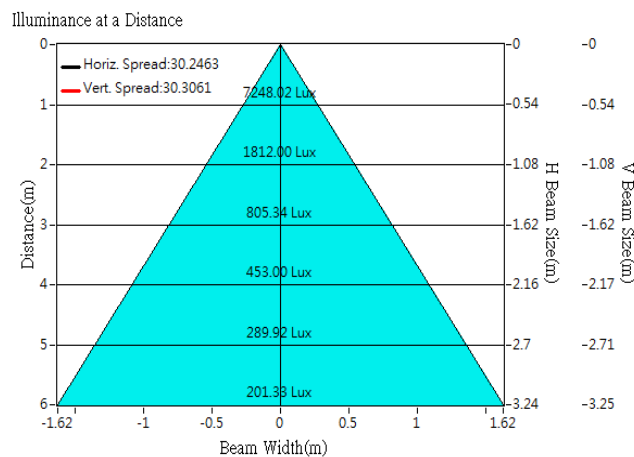
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p> 
LED	CREE CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	30°		
Field Angle (D10)	58°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2708 lm	Measured @ 28.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

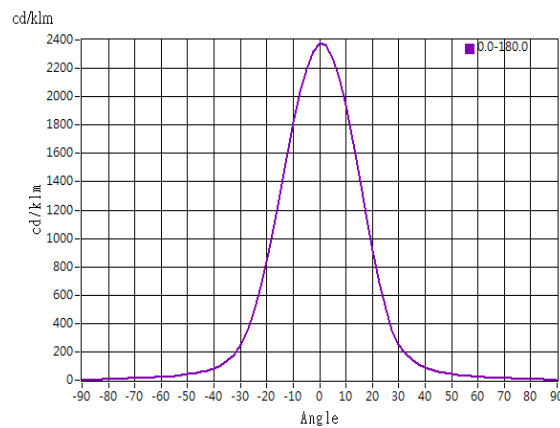




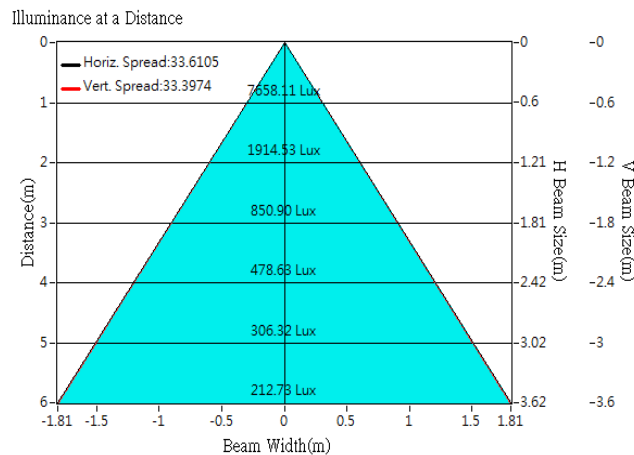
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CREE CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	34°		
Field Angle (D10)	61°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	3223 lm	Measured @ 28.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

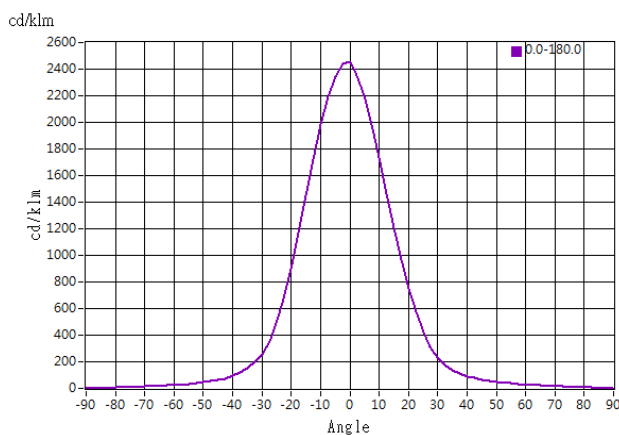




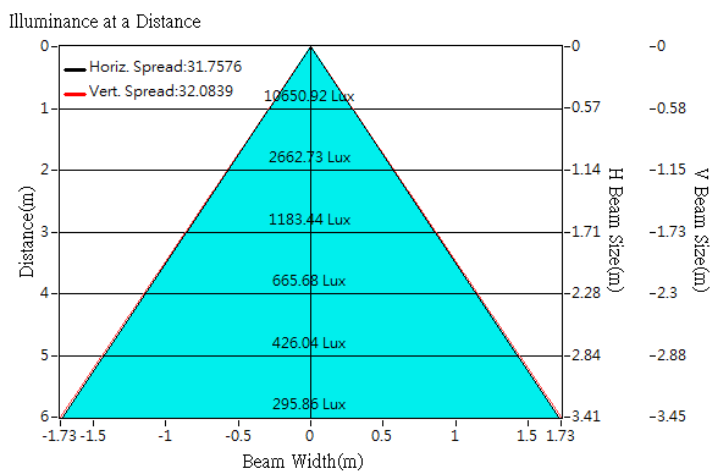
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p> <p>LES CoB</p>
LED	CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	32°		
Field Angle (D10)	60°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	4339 lm	Measured @ 40.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

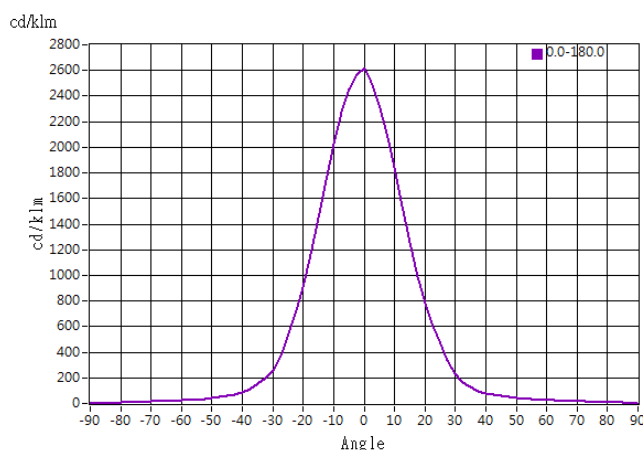




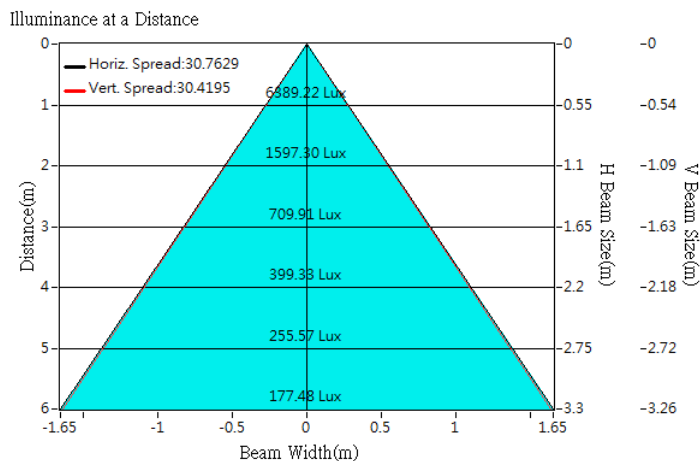
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	31°		
Field Angle (D10)	59°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2438 lm	Measured @ 22.1 W	
Material	PC / UL94V2		

cd/klm

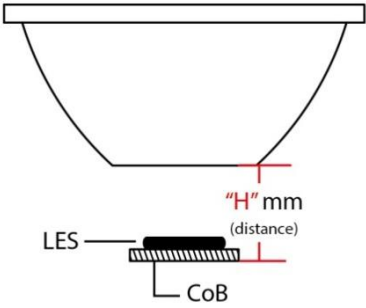


Illuminance At Distances

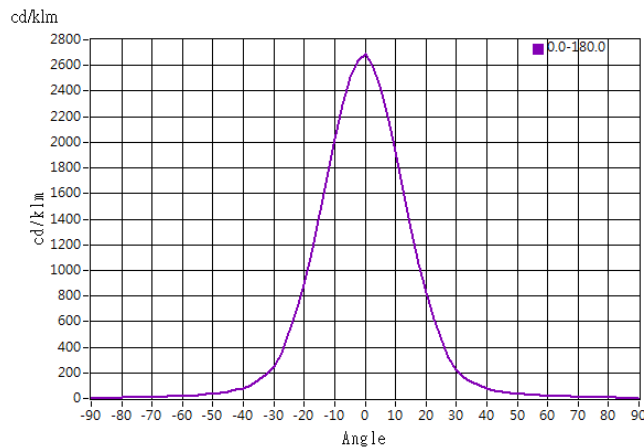




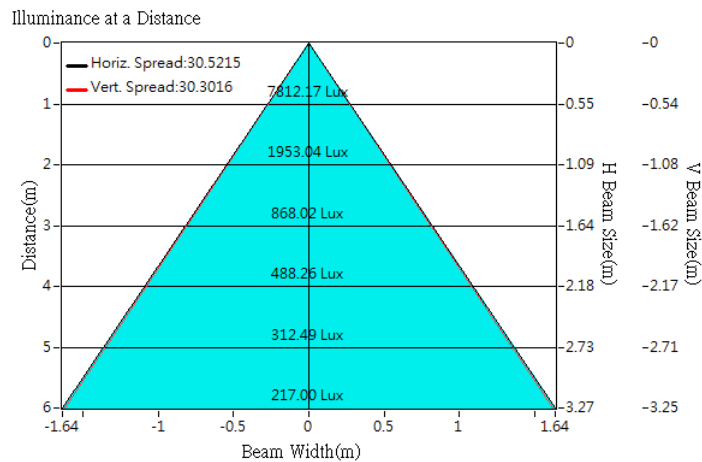
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p> 
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	31°		
Field Angle (D10)	58°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2904 lm	Measured @ 24.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

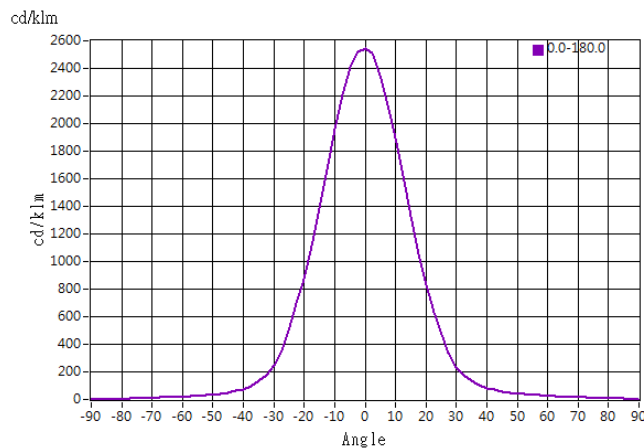




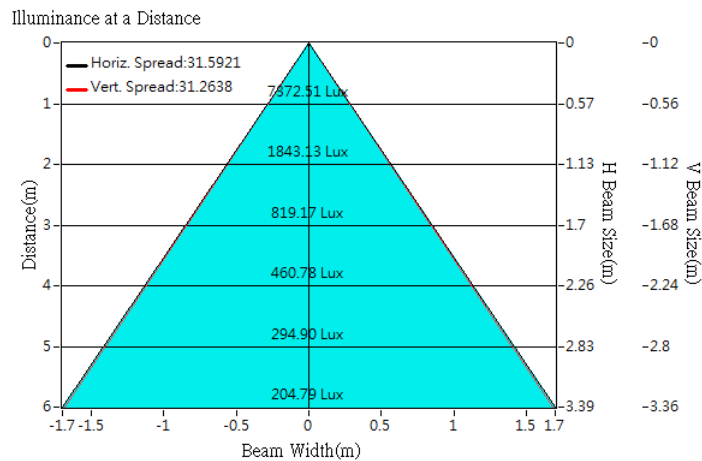
Optical Characteristics

Model Number	CKO-CH15-110058-3801	<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1930	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	32°	
Field Angle (D10)	59°	
H (distance)	4 mm	
Dimension	Φ =110 mm, Thickness=58 mm	
Luminous Flux	2902 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

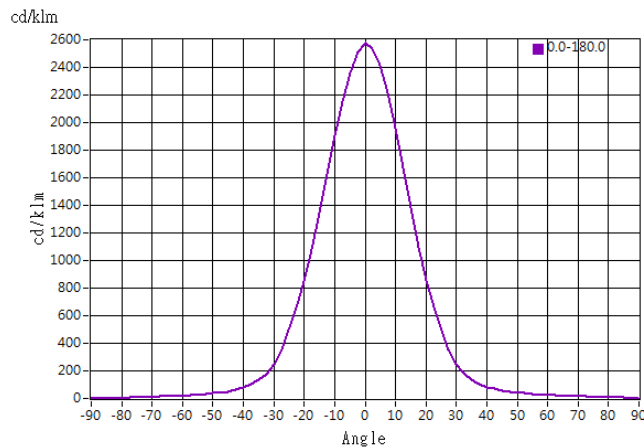




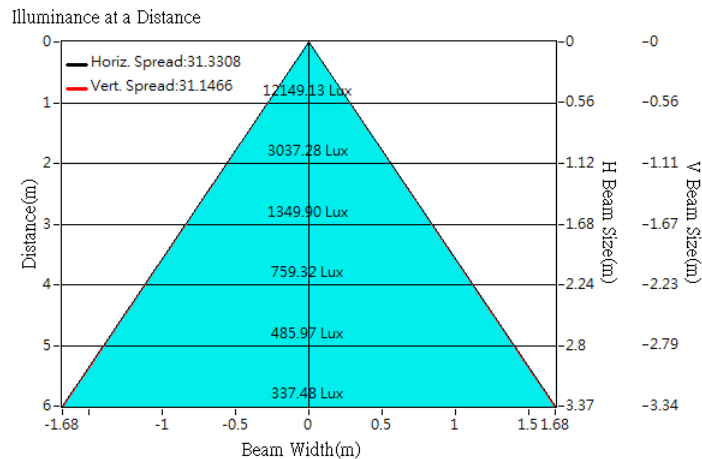
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CMT1945		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	31°		
Field Angle (D10)	60°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	4715 lm	Measured @ 43 W	
Material	PC / UL94V2		

cd/klm

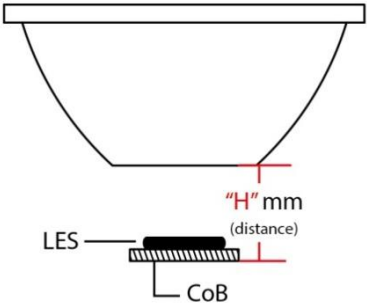


Illuminance At Distances

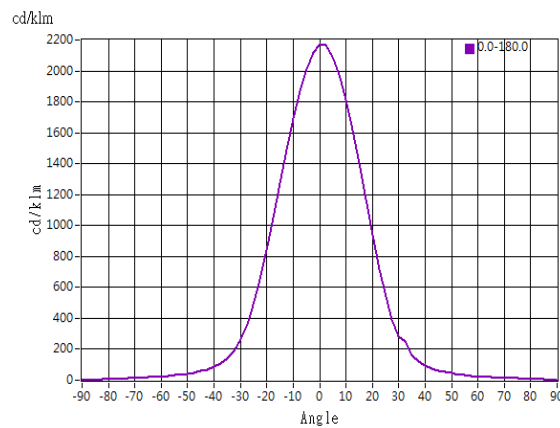




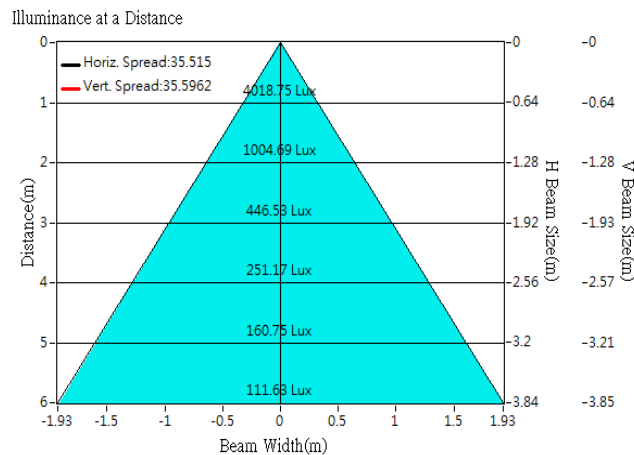
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p> 
LED	CREE CXA2520		
LES / LED Size	Φ 19 mm		
FWHM (D50)	36°		
Field Angle (D10)	65°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	1850 lm	Measured @ 20.0 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

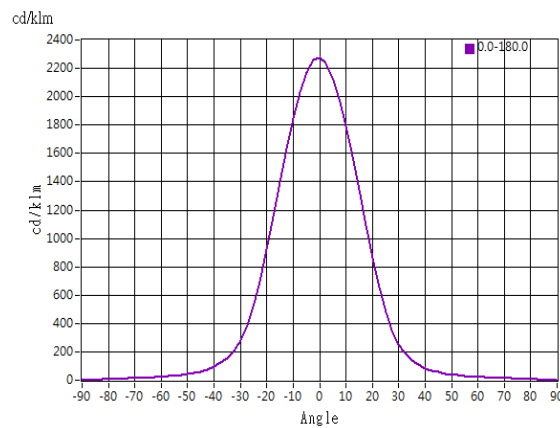




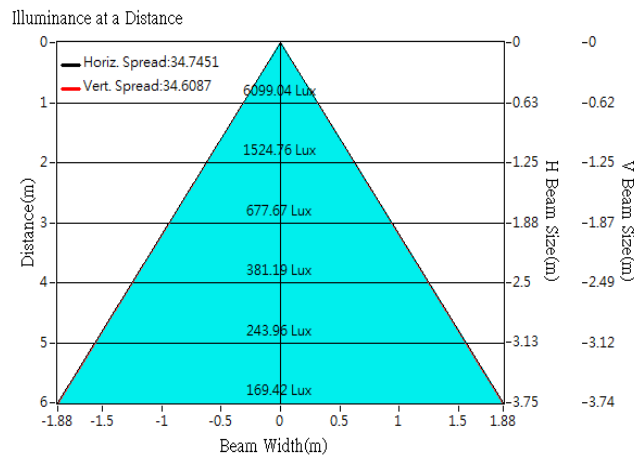
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CREE CXA2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	35°		
Field Angle (D10)	63°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2681 lm	Measured @ 29.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

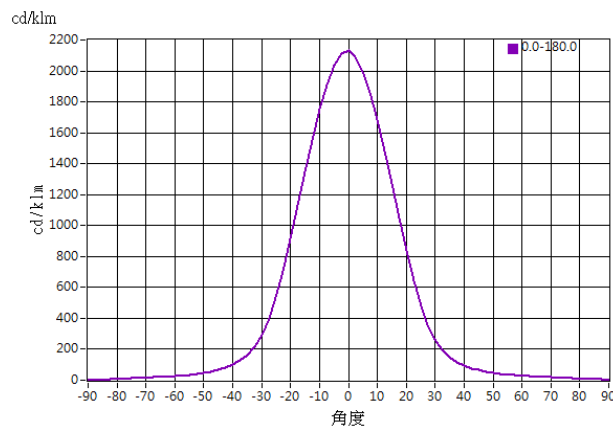




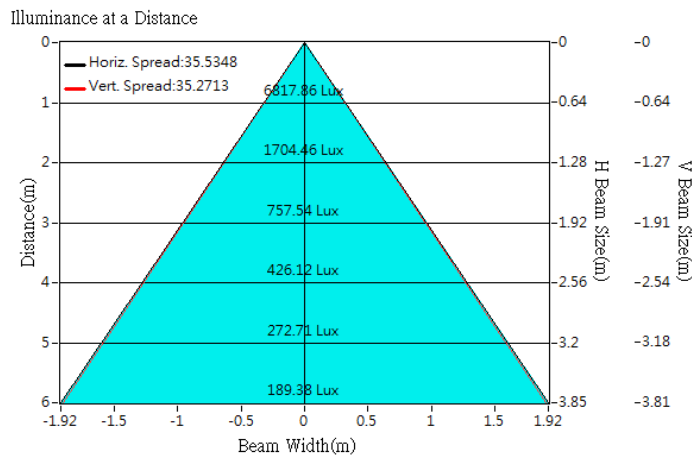
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CREE CXB2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	36°		
Field Angle (D10)	65°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	3195 lm	Measured @ 27.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

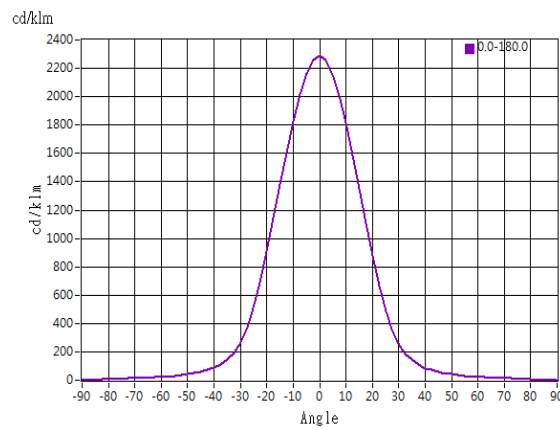




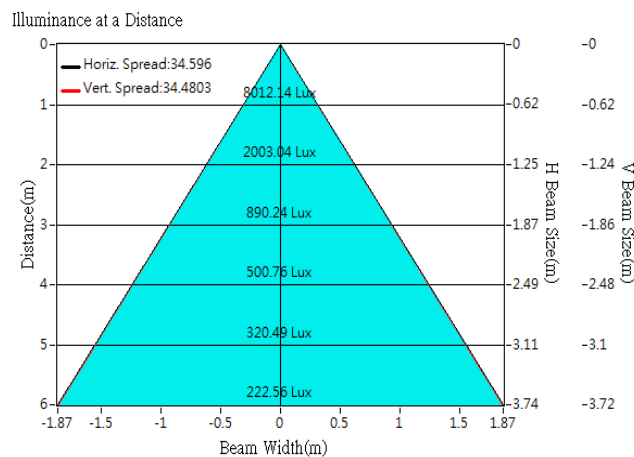
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CREE CXA2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	35°		
Field Angle (D10)	62°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	3497 lm	Measured @ 39.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

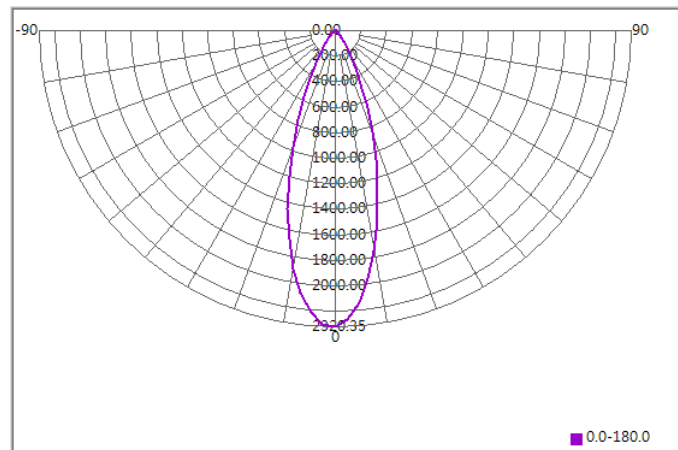




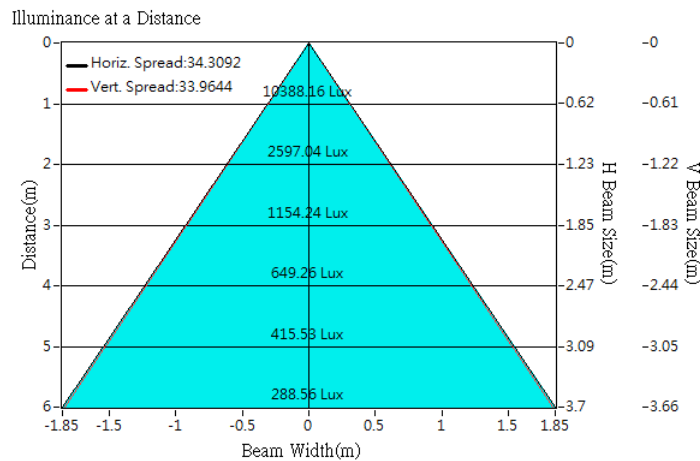
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CXB2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	34°		
Field Angle (D10)	63°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	4476 lm	Measured @ 38.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

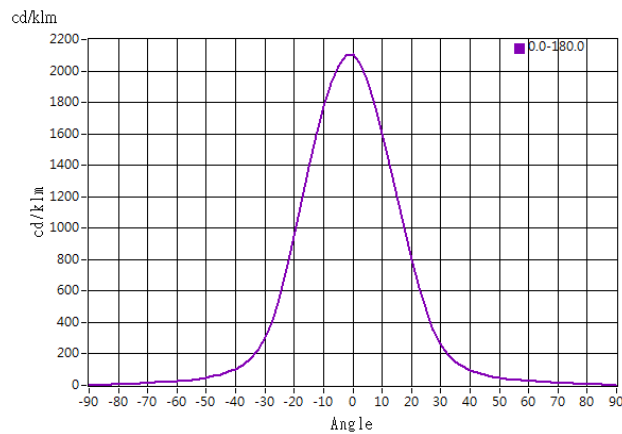




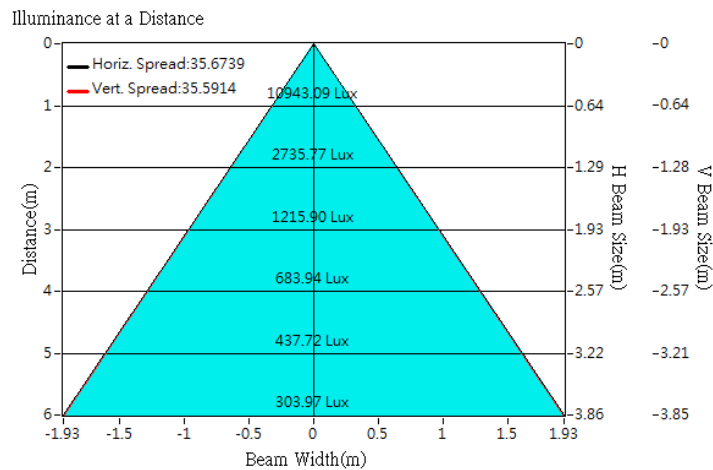
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CMA2550		
LES / LED Size	Φ 19 mm		
FWHM (D50)	36°		
Field Angle (D10)	65°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	lm	Measured @ 42.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

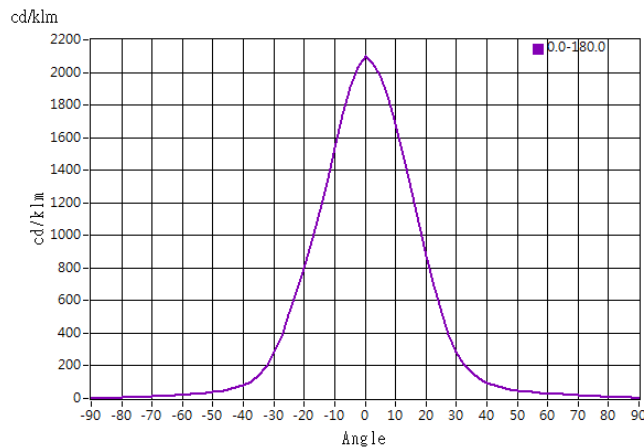




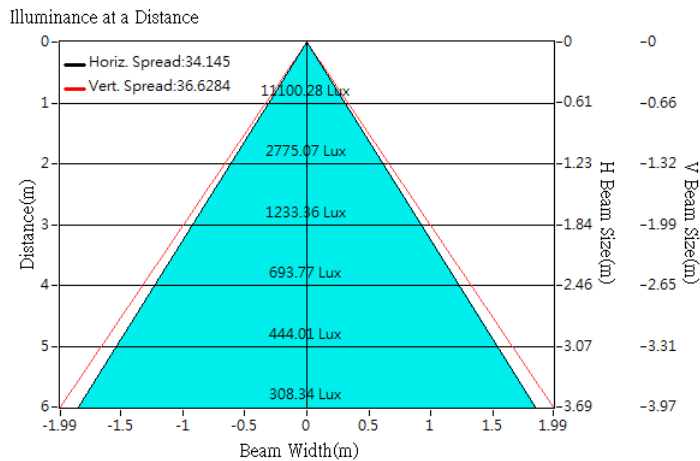
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p> <p>LES CoB</p>
LED	CMT2850		
LES / LED Size	Φ 22 mm		
FWHM (D50)	34°		
Field Angle (D10)	65°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	5292 lm	Measured @ 48 W	
Material	PC / UL94V2		

cd/klm

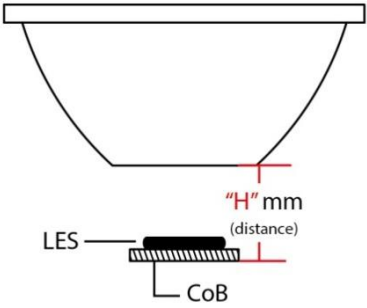


Illuminance At Distances

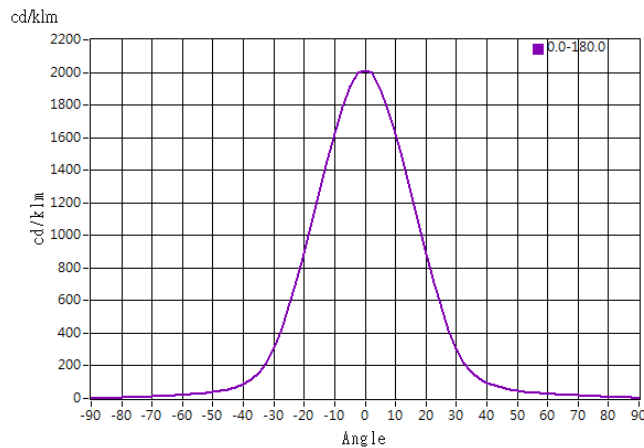




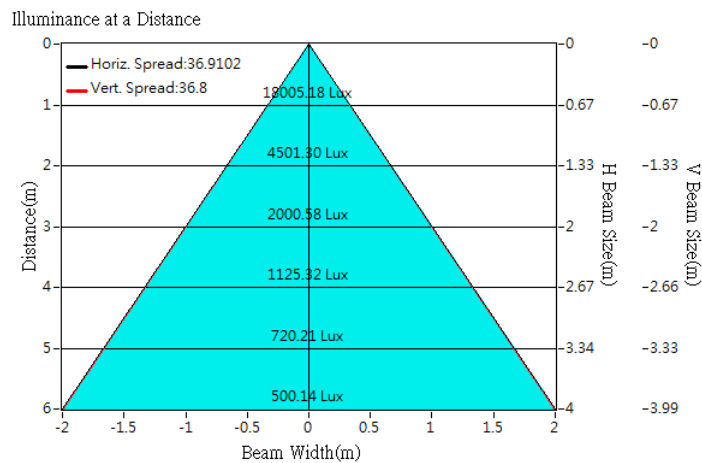
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p> 
LED	CMT2890		
LES / LED Size	Φ 22 mm		
FWHM (D50)	37°		
Field Angle (D10)	66°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	8955 lm	Measured @ 86.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

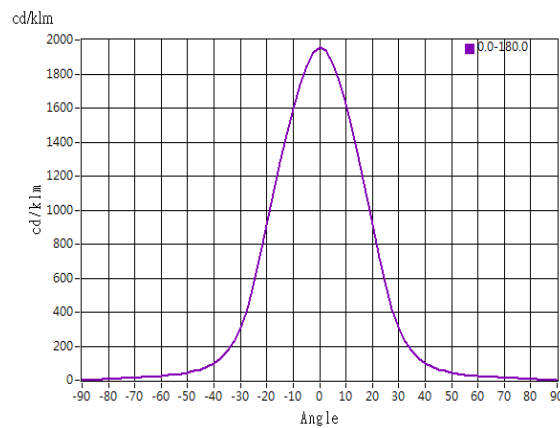




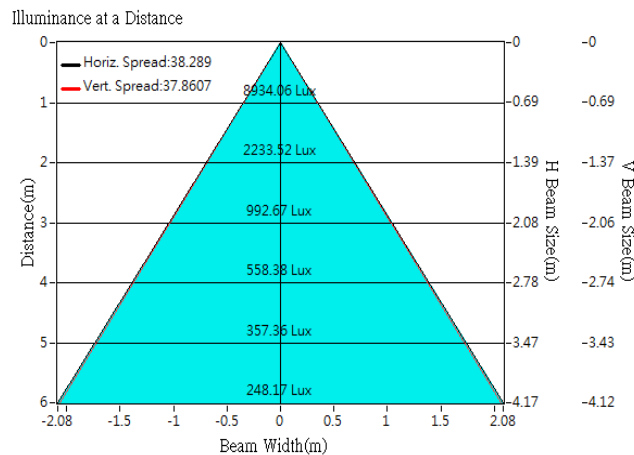
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CREE CXA3050		
LES / LED Size	Φ 23 mm		
FWHM (D50)	38°		
Field Angle (D10)	68°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	4571 lm	Measured @ 50.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

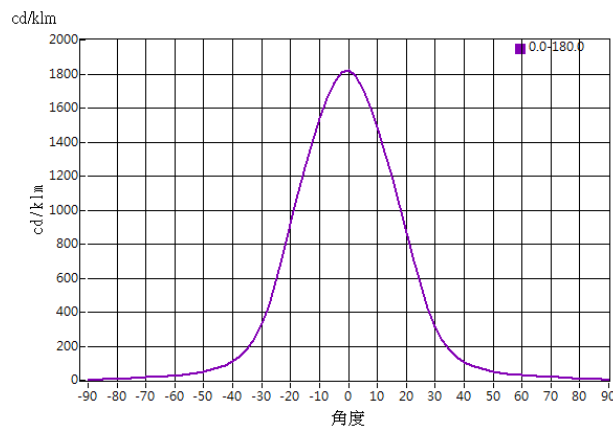




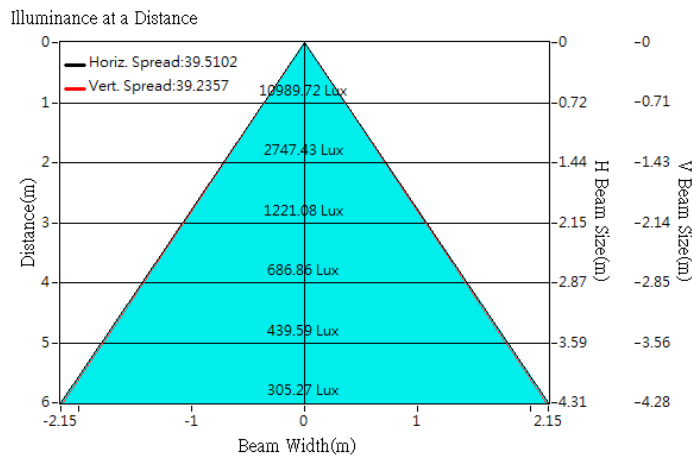
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CREE CXB3050		
LES / LED Size	Φ 23 mm		
FWHM (D50)	40°		
Field Angle (D10)	70°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	6041 lm	Measured @ 48.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

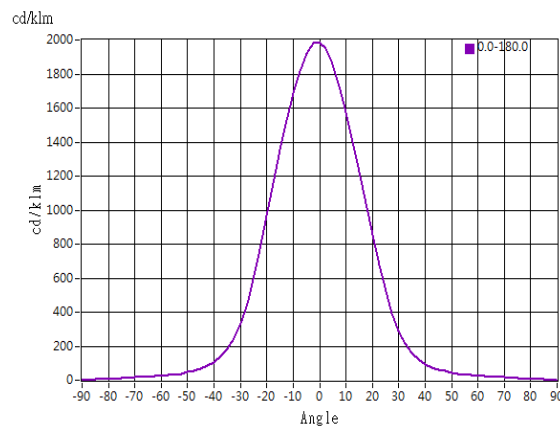




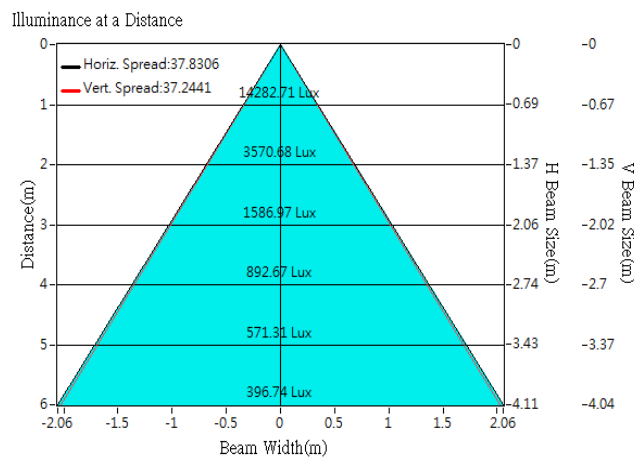
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CREE CXA3070		
LES / LED Size	Φ 23 mm		
FWHM (D50)	38°		
Field Angle (D10)	68°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	7197 lm	Measured @ 70.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

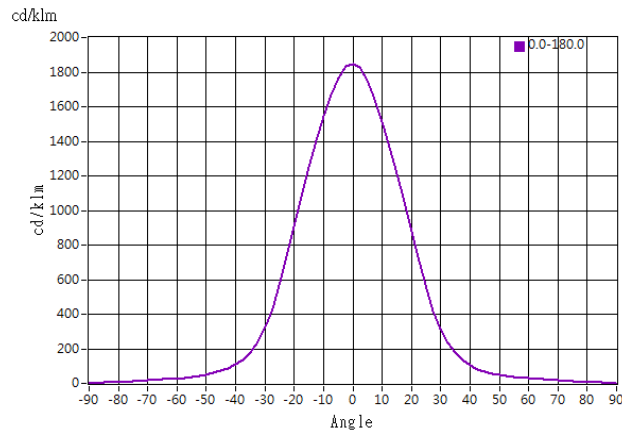




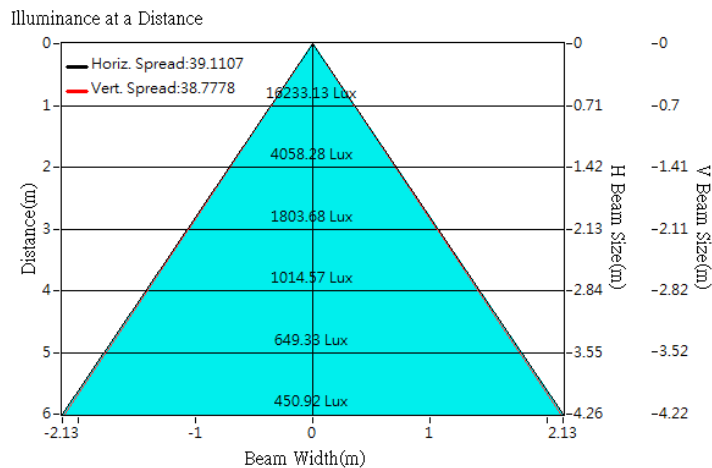
Optical Characteristics

Model Number	CKO-CH15-110058-3801		<p>"H" definition</p>
LED	CMA3090		
LES / LED Size	Φ 23 mm		
FWHM (D50)	39°		
Field Angle (D10)	70°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	8804 lm	Measured @ 69.1 W	
Material	PC / UL94V2		

cd/klm

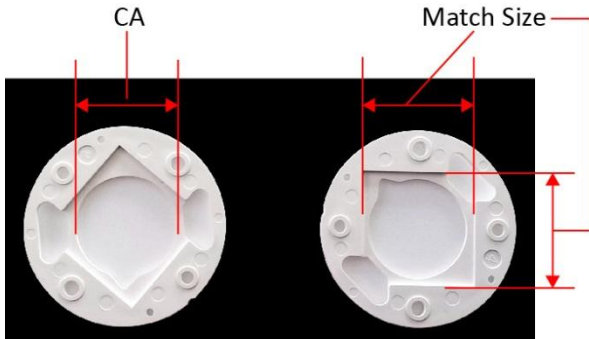


Illuminance At Distances





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