



Product Model Number

CKO-CH17-110058-0801

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

(A)

(B)

(C)

(D)

(E)

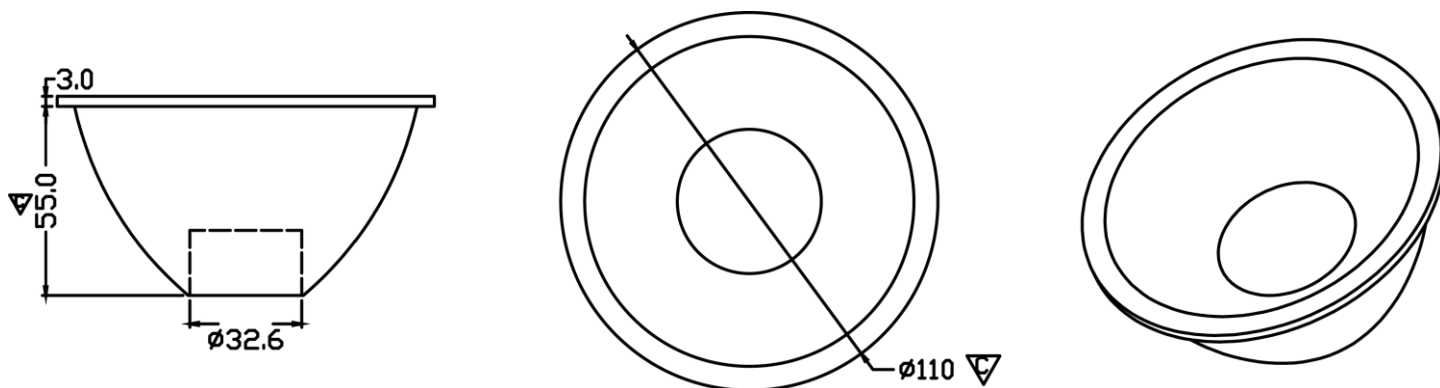


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ 110 x 57.8



▽:Critical Dimension

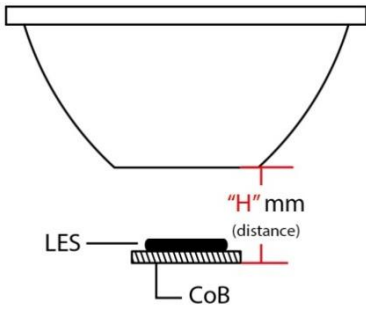


✓ Optical Characteristics – Angle Performances

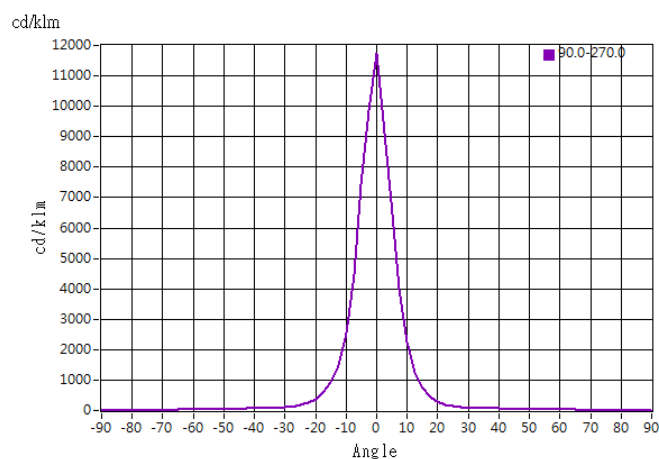
Cree	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXB1820	Φ12	12°	25°
CMA1825	Φ12	12°	24°
CXA1830	Φ14	12°	26°
CXB1830	Φ14	13°	27°
CMA1840	Φ14	13°	28°
CMT1922	Φ14.5	13°	28°
CMT1930	Φ14.5	12°	28°
CMT1945	Φ14.5	12°	28°
CXA2520	Φ19	15°	32°
CXA2530	Φ19	15°	34°
CXB2530	Φ19	15°	33°
CXA2540	Φ19	15°	33°
CXB2540	Φ19	16°	36°
CMA2550	Φ19	16°	36°
CMT2850	Φ22	16°	37°
CXA3050	Φ23	18°	41°
CMA3090	Φ23	18°	42°



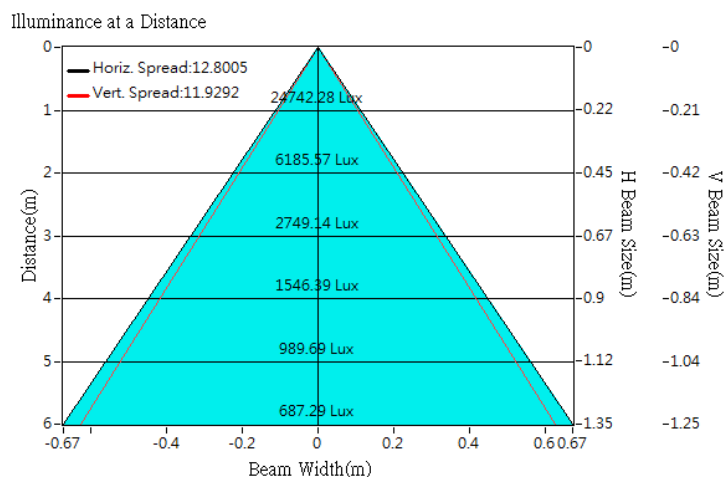
Optical Characteristics

Model Number	CKO-CH17-110058-0801		"H" definition
LED	CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	12°		
Field Angle (D10)	25°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=49.6 mm		
Luminous Flux	2109 lm	Measured @ 19.6 W	
Material	PC / UL94V2		

cd/klm

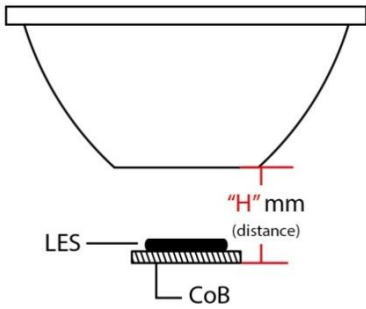


Illuminance At Distances

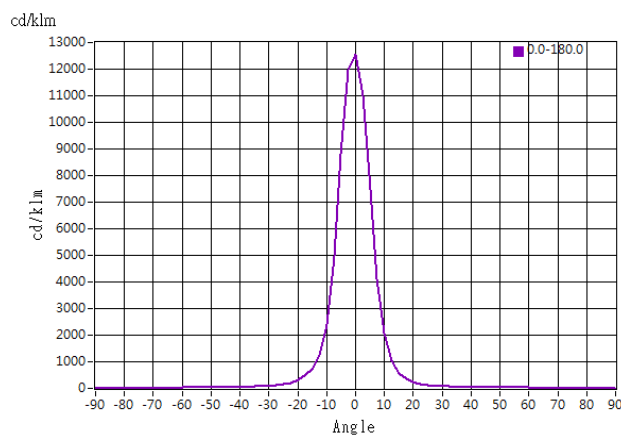




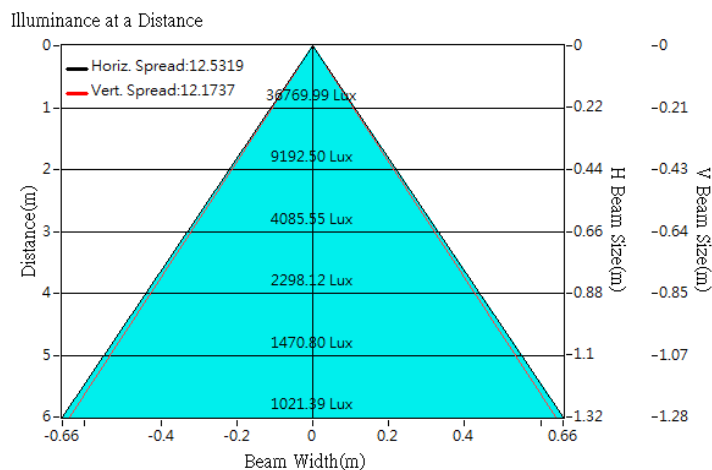
Optical Characteristics

Model Number	CKO-CH17-110058-0801		
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	12°		
Field Angle (D10)	24°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	2929 lm	Measured @ 24.5 W	
Material	PC / UL94V2		

cd/klm

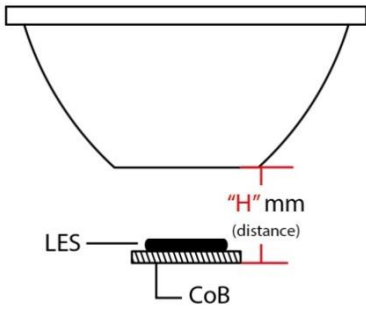


Illuminance At Distances

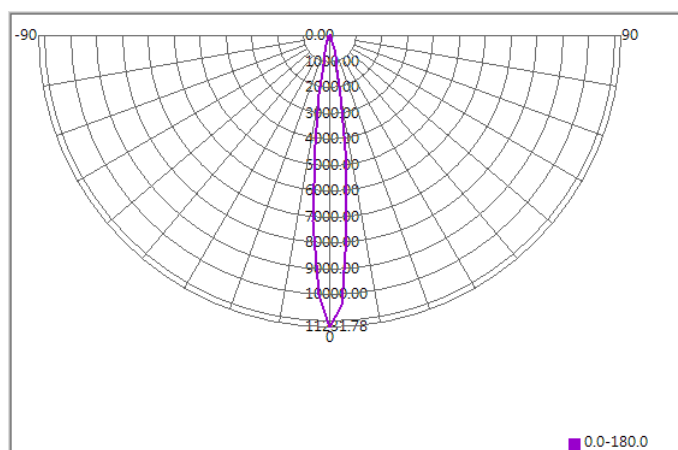




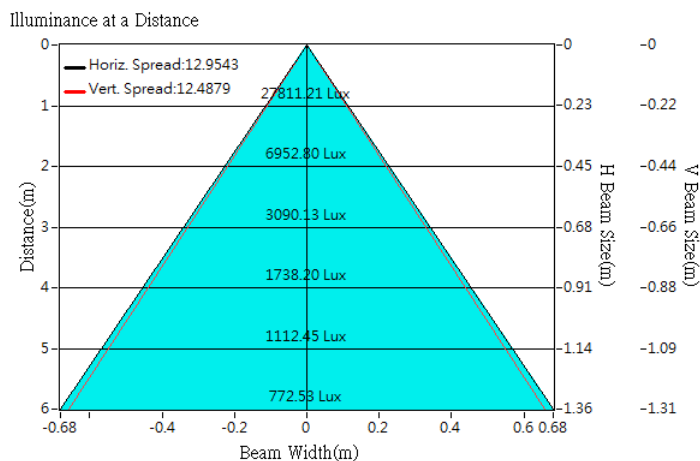
Optical Characteristics

Model Number	CKO-CH17-110058-0801		“H” definition 
LED	CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	12°		
Field Angle (D10)	26°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	2476 lm	Measured @ 30.0 W	
Material	PC / UL94V2		

cd/klm

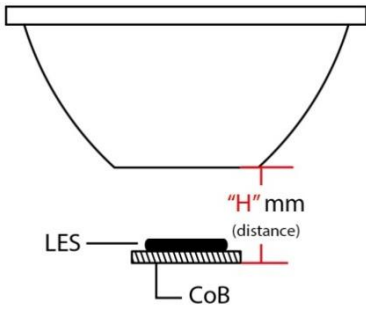


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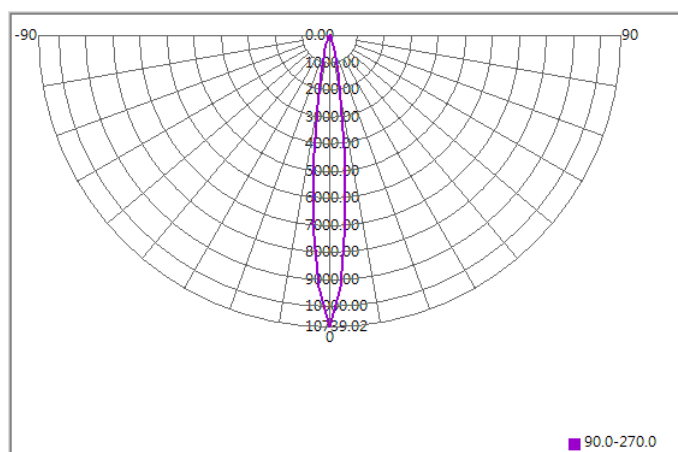




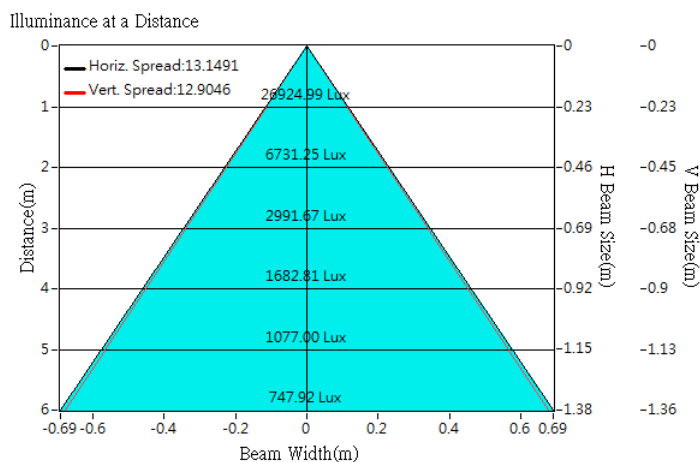
Optical Characteristics

Model Number	CKO-CH17-110058-0801		“H” definition 
LED	CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	13°		
Field Angle (D10)	27°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	2507 lm	Measured @ 27.8 W	
Material	PC / UL94V2		

cd/klm

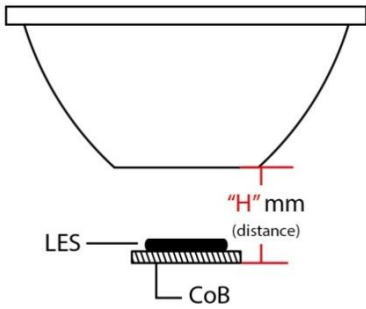


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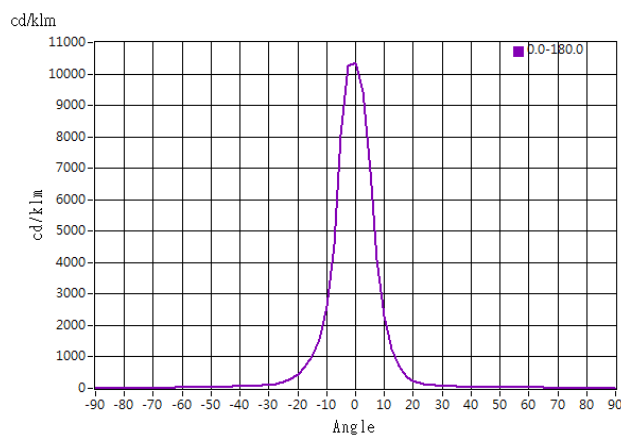




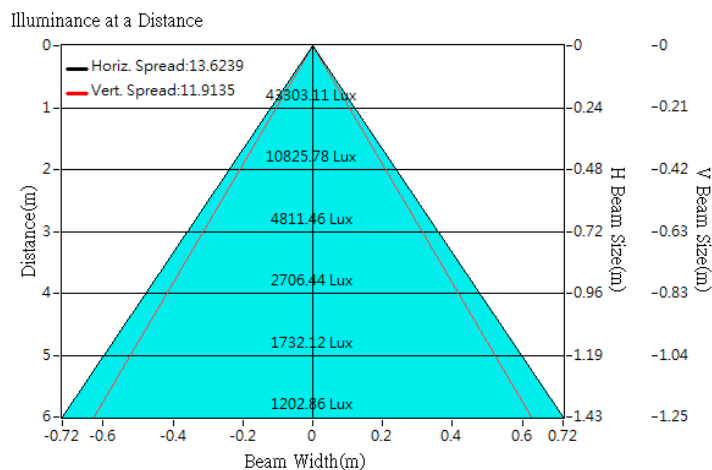
Optical Characteristics

Model Number	CKO-CH17-110058-0801		
LED	CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	13°		
Field Angle (D10)	28°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	4185 lm	Measured @ 40.3 W	
Material	PC / UL94V2		

cd/klm

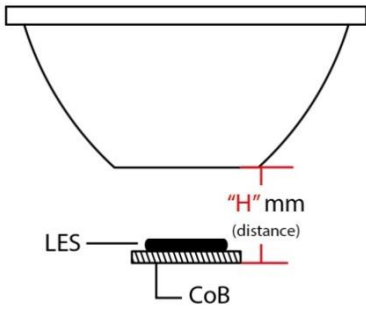


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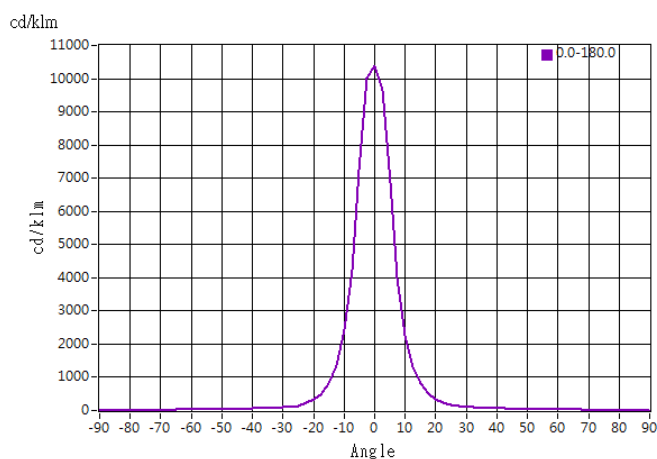




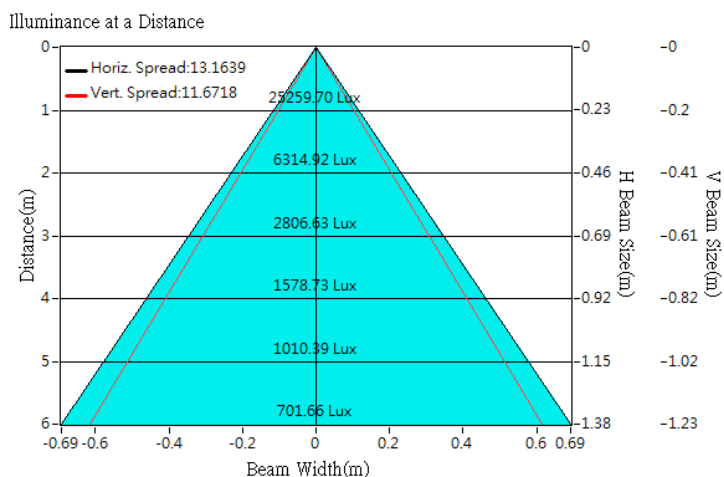
Optical Characteristics

Model Number	CKO-CH17-110058-0801		
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	13°		
Field Angle (D10)	28°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=49.6 mm		
Luminous Flux	2432 lm	Measured @ 21.7 W	
Material	PC / UL94V2		

cd/klm

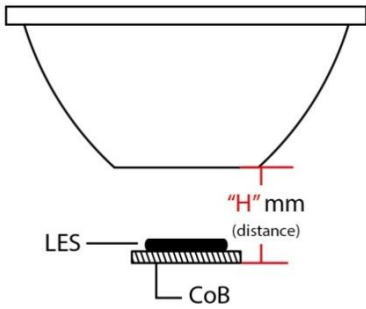


Illuminance At Distances

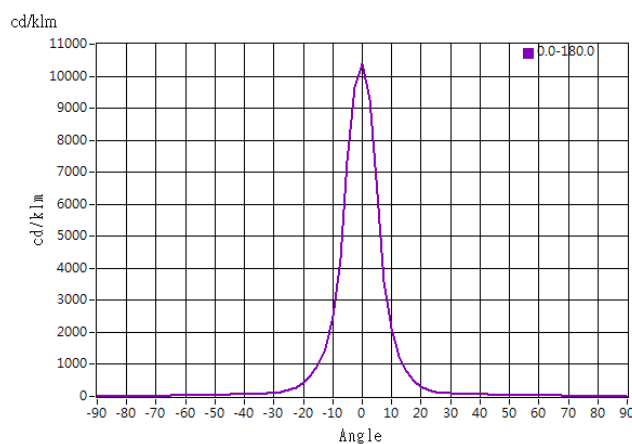




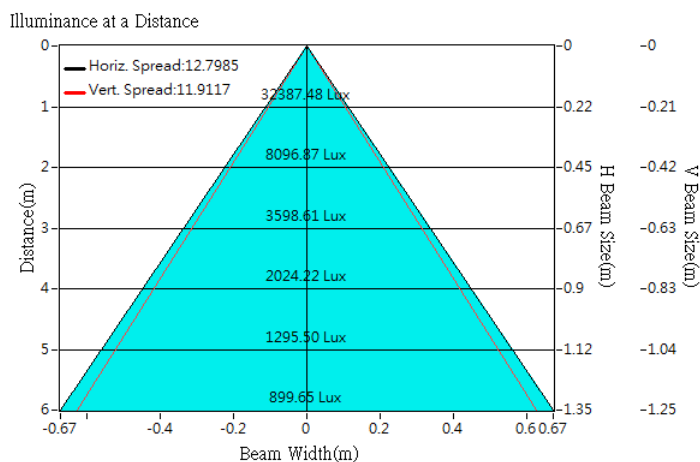
Optical Characteristics

Model Number	CKO-CH17-110058-0801		“H” definition 
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	12°		
Field Angle (D10)	28°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=49.6 mm		
Luminous Flux	3116 lm	Measured @ 29.4 W	
Material	PC / UL94V2		

cd/klm

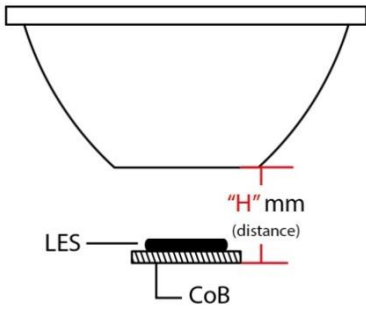


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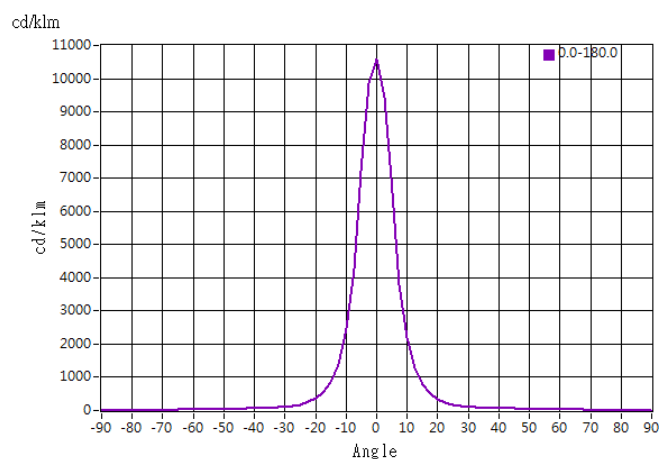




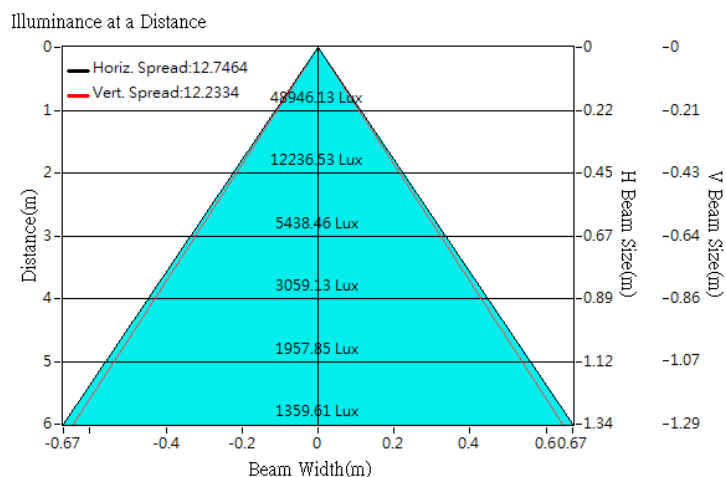
Optical Characteristics

Model Number	CKO-CH17-110058-0801		“H” definition 
LED	CMT1945		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	12°		
Field Angle (D10)	28°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=49.6 mm		
Luminous Flux	4613 lm	Measured @ 43.9 W	
Material	PC / UL94V2		

cd/klm

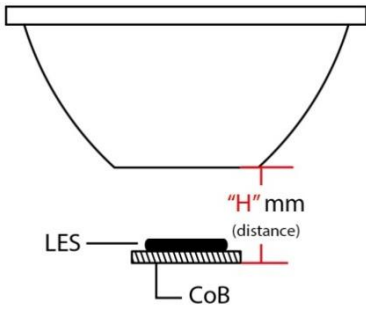


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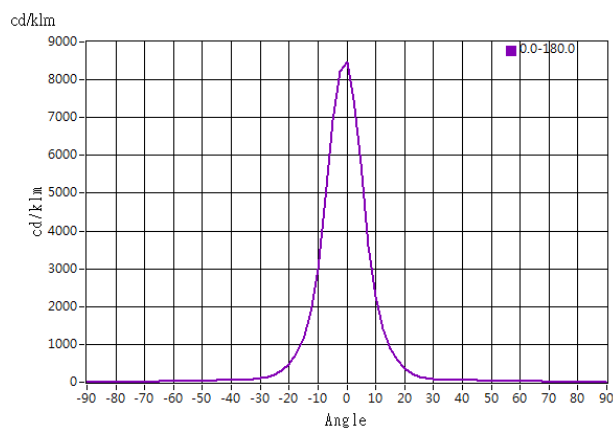




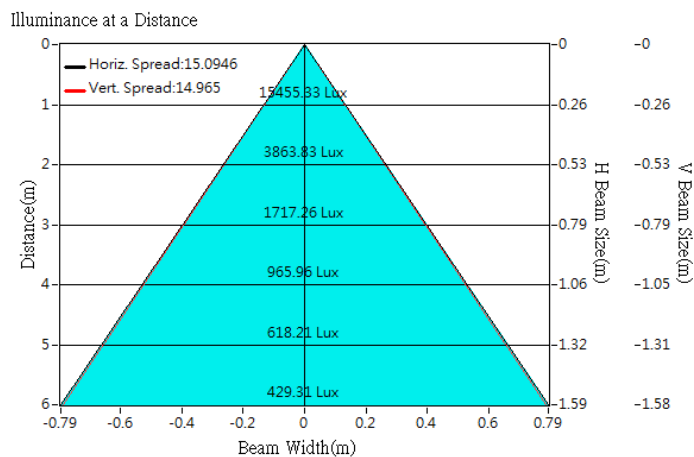
Optical Characteristics

Model Number	CKO-CH17-110058-0801		“H” definition 
LED	CXA2520		
LES / LED Size	Φ 19 mm		
FWHM (D50)	15°		
Field Angle (D10)	32°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	1822 lm	Measured @ 20.4 W	
Material	PC / UL94V2		

cd/klm

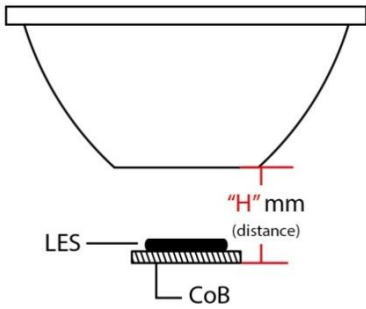


Illuminance At Distances

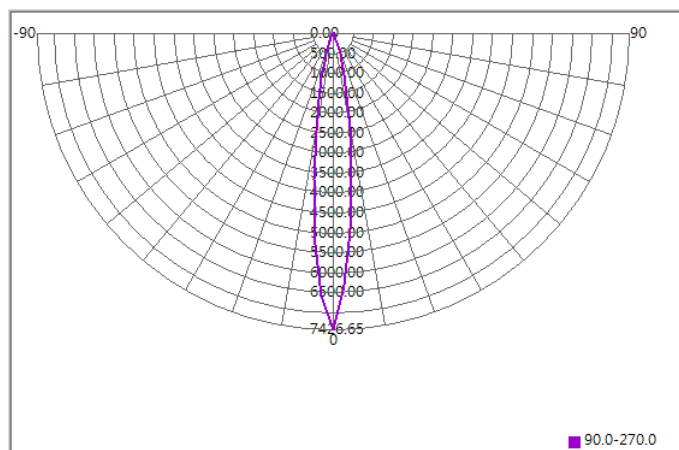




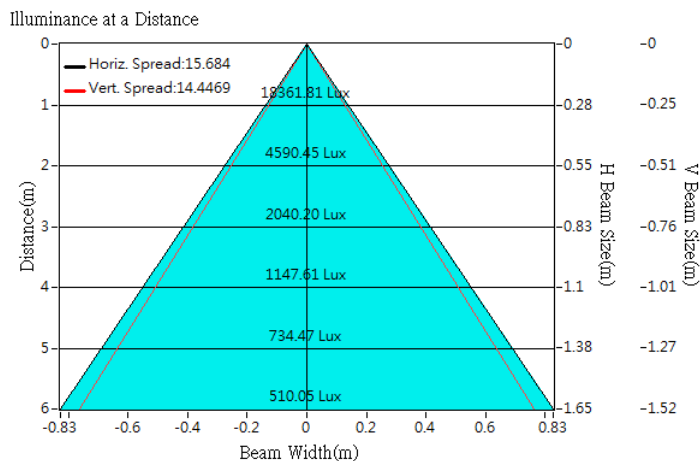
Optical Characteristics

Model Number	CKO-CH17-110058-0801		
LED	CXA2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	15°		
Field Angle (D10)	34°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	2472 lm	Measured @ 28.8 W	
Material	PC / UL94V2		

cd/klm

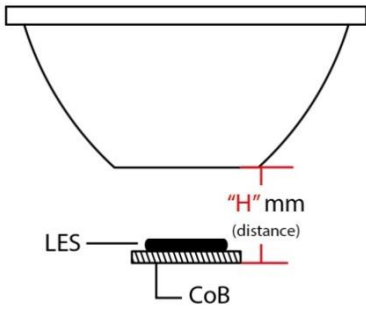


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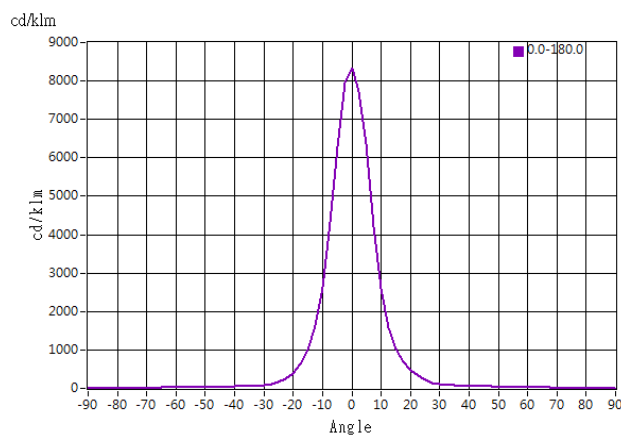




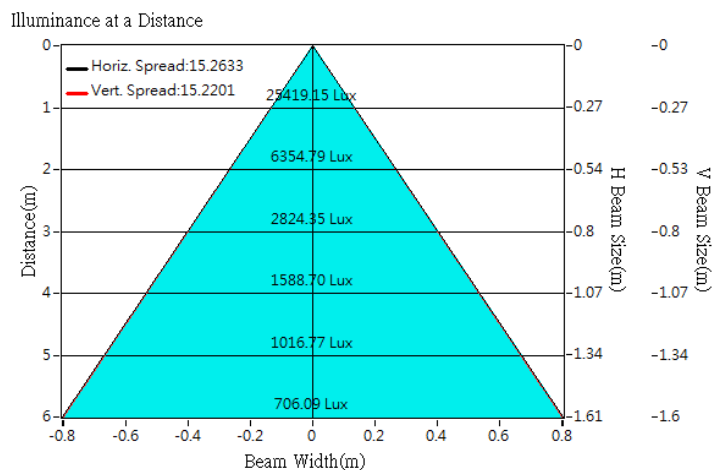
Optical Characteristics

Model Number	CKO-CH17-110058-0801		"H" definition 
LED	CXB2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	15°		
Field Angle (D10)	33°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	3046 lm	Measured @ 28.2 W	
Material	PC / UL94V2		

cd/klm

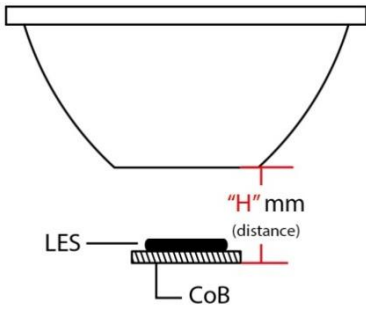


Illuminance At Distances

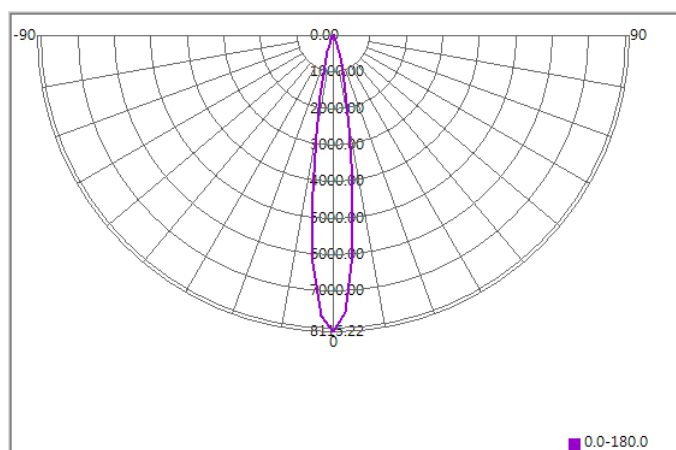




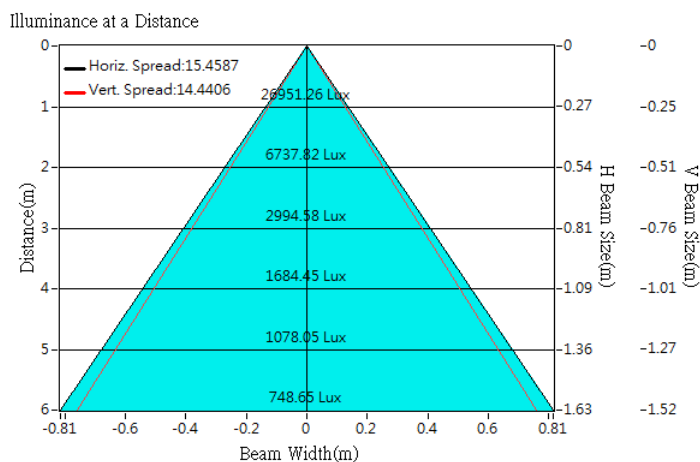
Optical Characteristics

Model Number	CKO-CH17-110058-0801		
LED	CXA2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	15°		
Field Angle (D10)	33°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	3321 lm	Measured @ 39.4 W	
Material	PC / UL94V2		

cd/klm

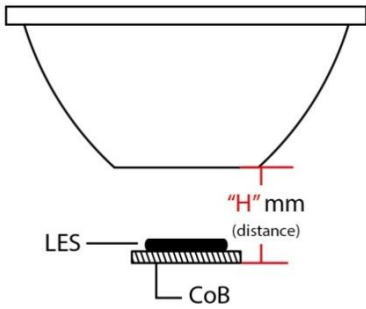


Illuminance At Distances

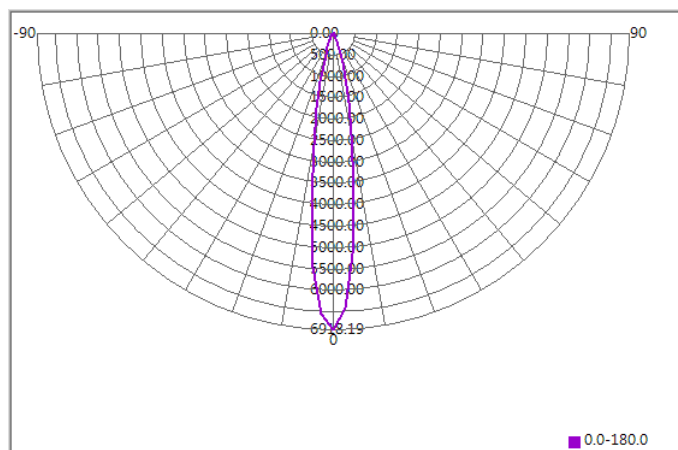




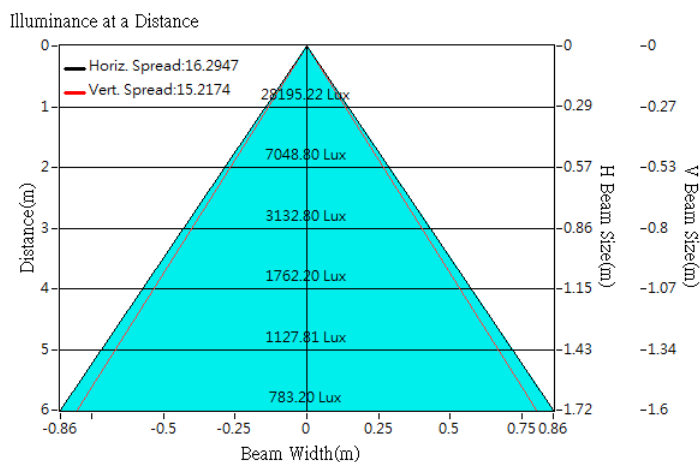
Optical Characteristics

Model Number	CKO-CH17-110058-0801		
LED	CXB2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	16°		
Field Angle (D10)	36°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	4075 lm	Measured @ 38.9 W	
Material	PC / UL94V2		

cd/klm

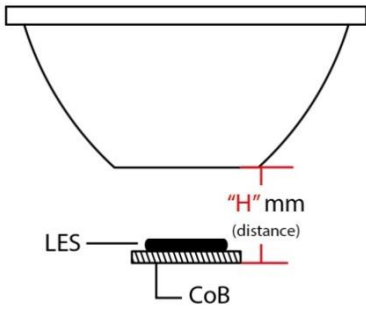


Illuminance At Distances

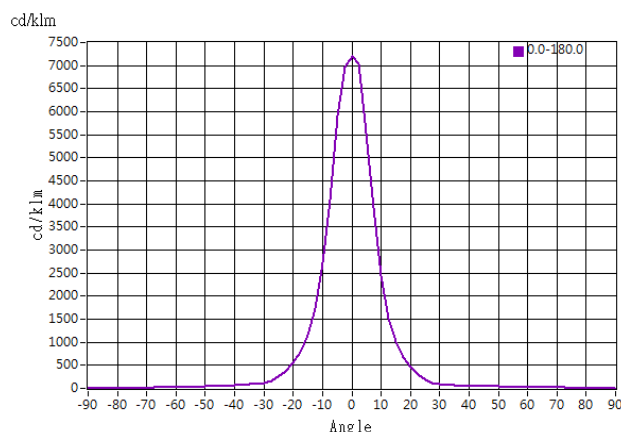




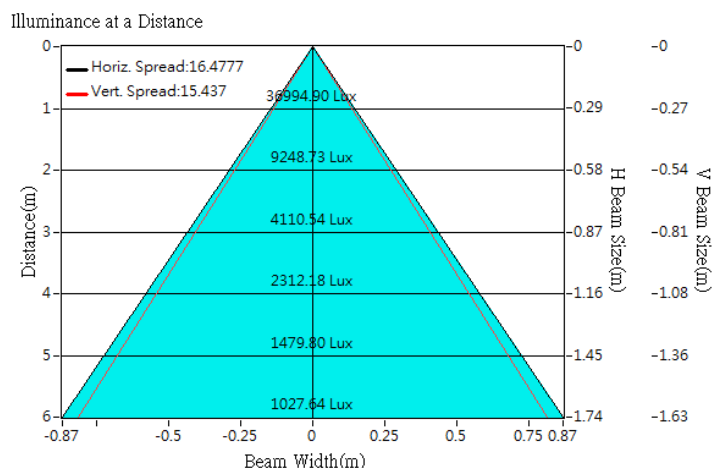
Optical Characteristics

Model Number	CKO-CH17-110058-0801		
LED	CMA2550		
LES / LED Size	Φ 19 mm		
FWHM (D50)	16°		
Field Angle (D10)	36°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	5145 lm	Measured @ 42.5 W	
Material	PC / UL94V2		

cd/klm

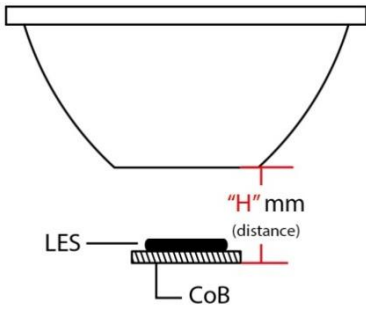


Illuminance At Distances

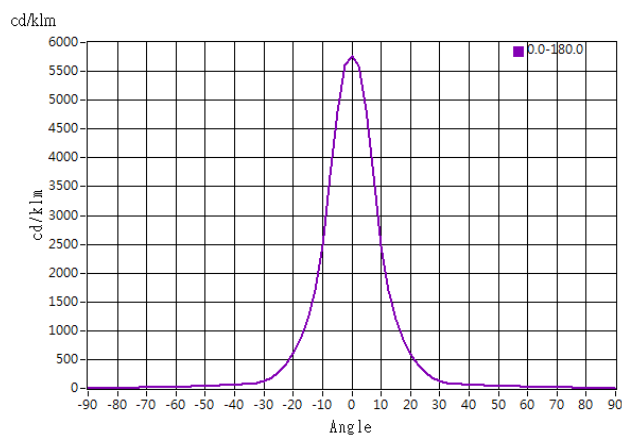




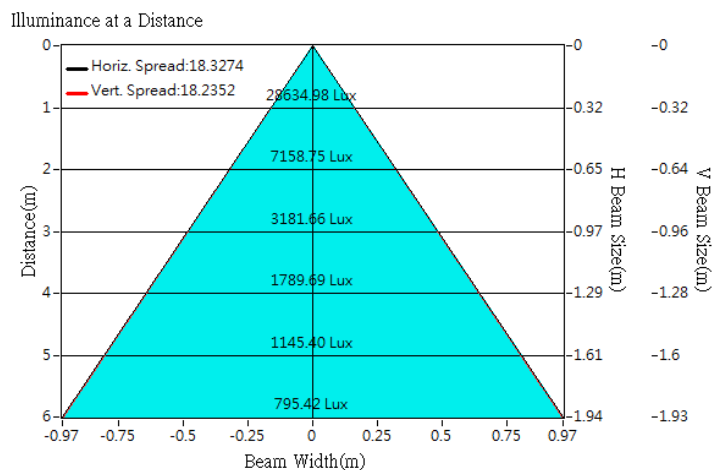
Optical Characteristics

Model Number		CKO-CH17-110058-0801	"H" definition
LED	CXA3050		
LES / LED Size	Φ 23 mm		
FWHM (D50)	18°		
Field Angle (D10)	41°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	4968 lm	Measured @ 51.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

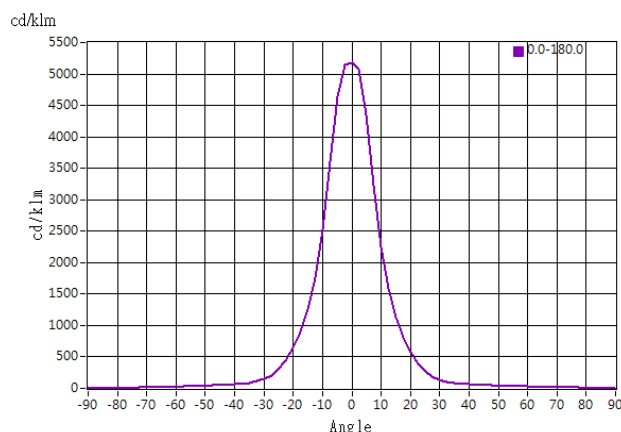




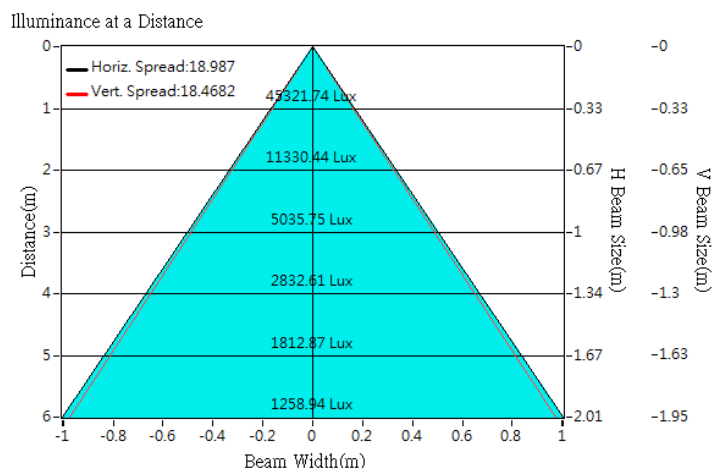
Optical Characteristics

Model Number	CKO-CH17-110058-0801		
LED	CMA3090		
LES / LED Size	Φ 23 mm		
FWHM (D50)	18°		
Field Angle (D10)	42°		
H (distance)	4.0 mm		
Dimension	Φ =110 mm, Thickness=57.8 mm		
Luminous Flux	8749 lm	Measured @ 69 W	
Material	PC / UL94V2		

cd/klm

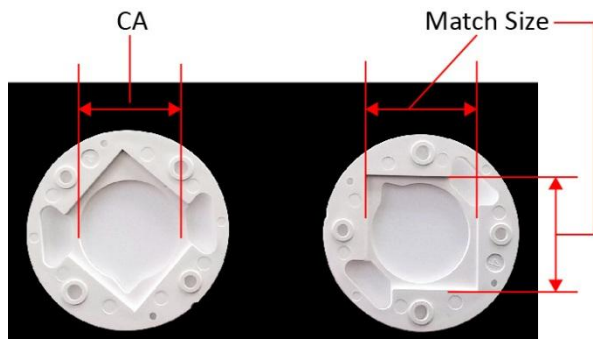


Illuminance At Distances





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