



Product Model Number

CKO-CS15-060027-4201

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

(A)

(B)

(C)

(D)

(E)

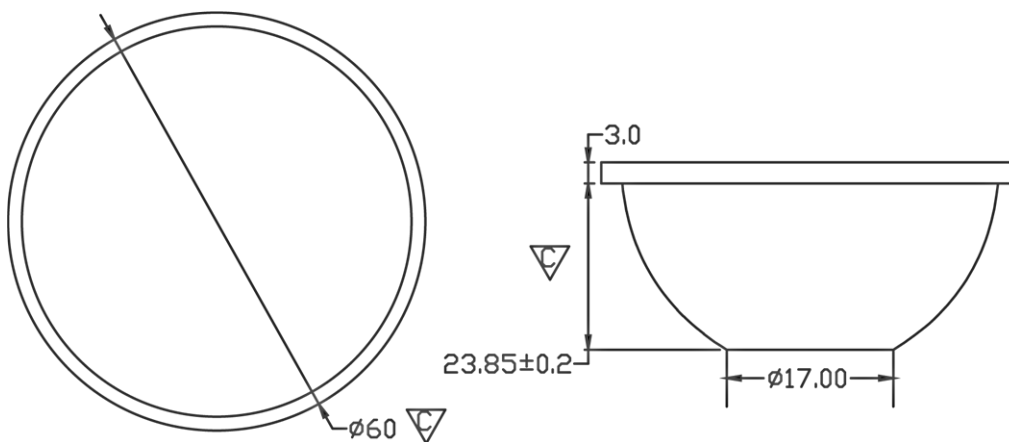


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ60 x 26.85



▽:Critical Dimension

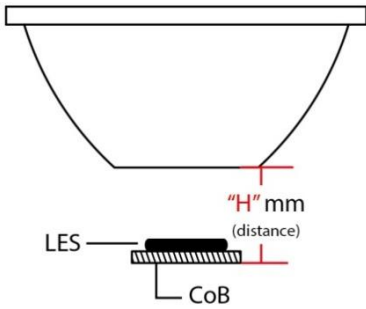


✓ **Optical Characteristics – Angle Performances**

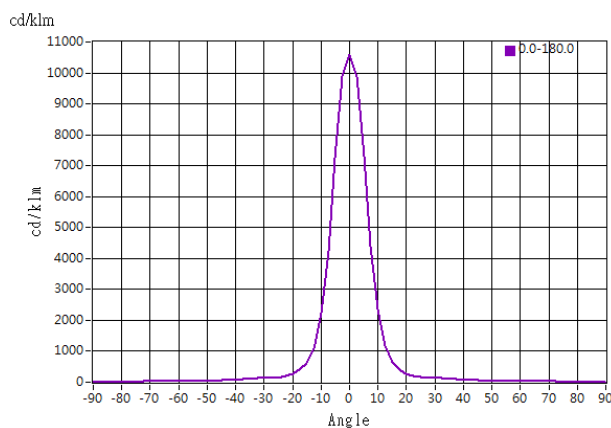
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1512	Φ9	13°	26°
CXB1512	Φ9	14°	28°
CMA1516	Φ9	15°	29°
CXB1520	Φ9	14°	29°
CMT1407	Φ9.8	15°	32°
CMT1412	Φ9.8	15°	30°
CMT1420	Φ9.8	16°	30°
CXA1816	Φ12	19°	37°
CXB1816	Φ12	19°	37°
CXB1820	Φ12	19°	37°
CMA1825	Φ12	20°	38°
CXA1830	Φ14	21°	40°
CXB1830	Φ14	23°	43°
CMA1840	Φ14	23°	44°
CMT1922	Φ14.5	22°	43°
CMT1925	Φ14.5	23°	44°
CMT1930	Φ14.5	22°	43°
CMT1945	Φ14.5	22°	43°



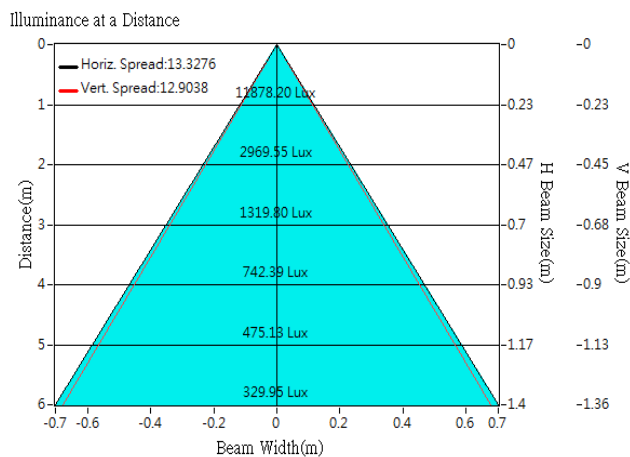
Optical Characteristics

Model Number	CKO-CS15-060027-4201		"H" definition
LED	CXA 1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	13°		
Field Angle (D10)	26°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1121 lm	Measured @ 13.5 W	
Material	PC / UL94V2		

cd/klm

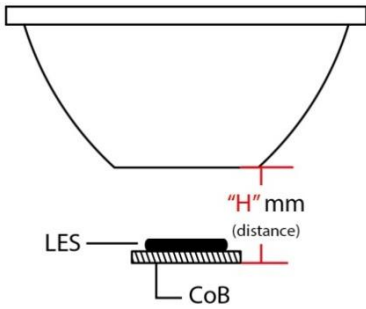


Illuminance At Distances

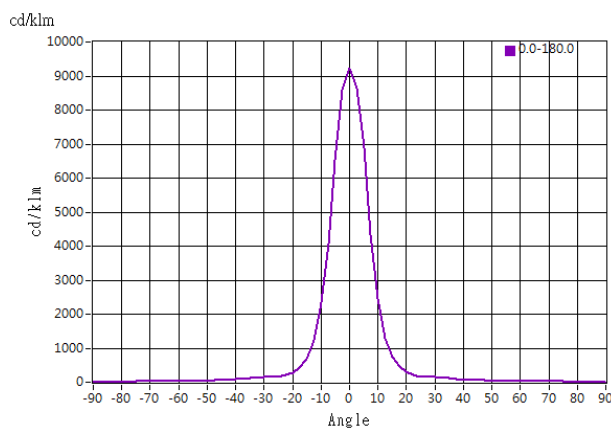




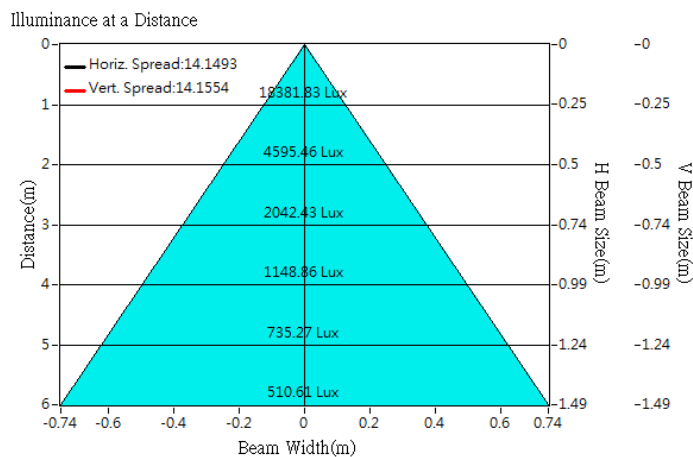
Optical Characteristics

Model Number	CKO-CS15-060027-4201		"H" definition
LED	CXB 1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	14°		
Field Angle (D10)	28°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1991 lm	Measured @ 21.6 W	
Material	PC / UL94V2		

cd/klm

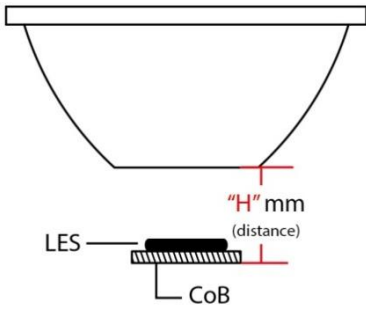


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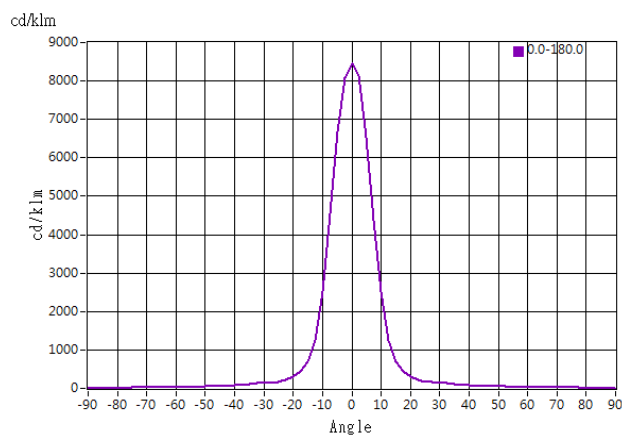




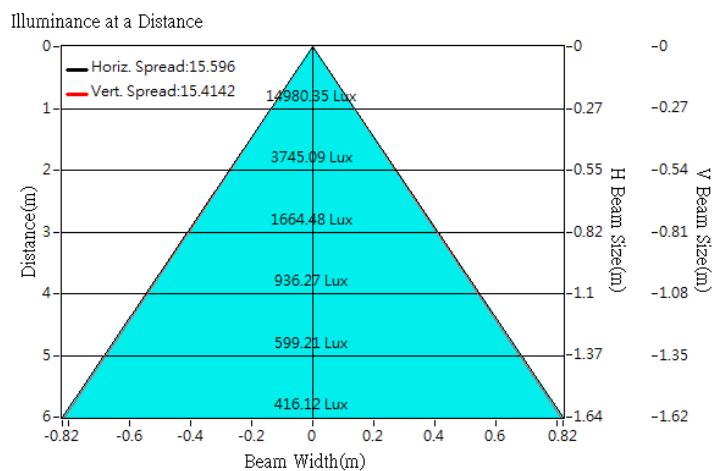
Optical Characteristics

Model Number		CKO-CS15-060027-4201	"H" definition
LED	CMA1516		
LES / LED Size	Φ 9 mm		
FWHM (D50)	15°		
Field Angle (D10)	29°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1771 lm	Measured @ 15.9 W	
Material	PC / UL94V2		

cd/klm

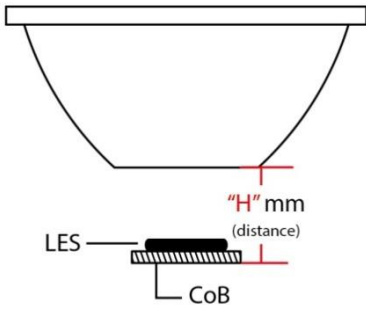


Illuminance At Distances

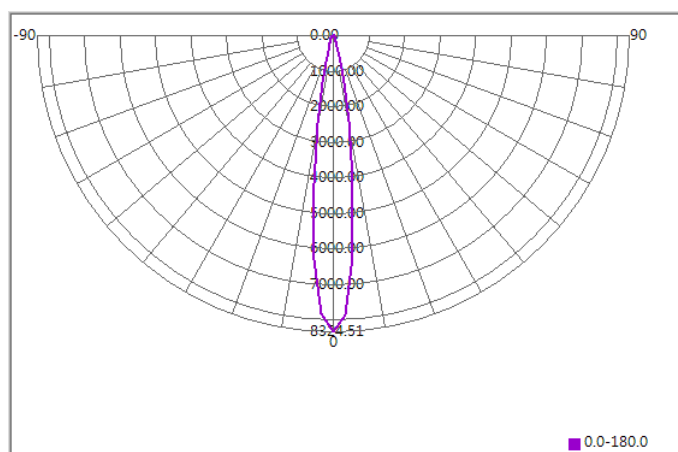




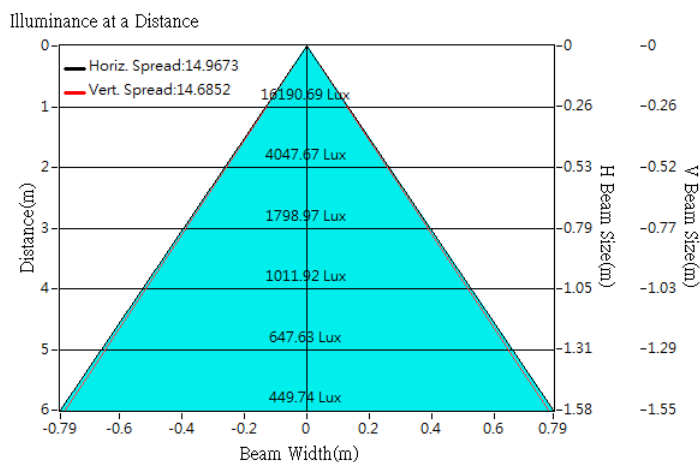
Optical Characteristics

Model Number	CKO-CS15-060027-4201		
LED	CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	14°		
Field Angle (D10)	29°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1944 lm	Measured @ 16.6 W	
Material	PC / UL94V2		

cd/klm

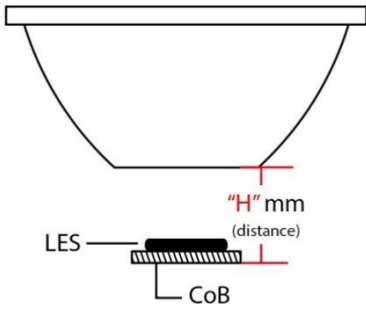


Illuminance At Distances

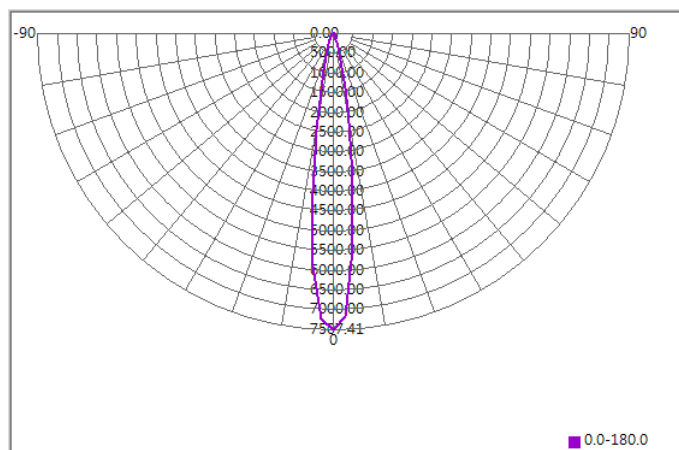




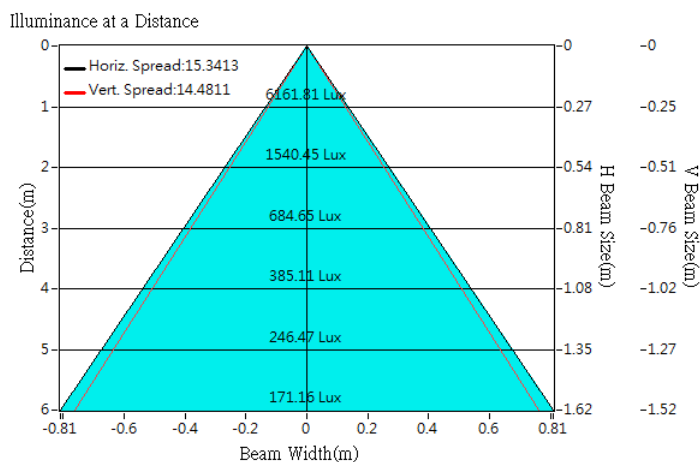
Optical Characteristics

Model Number	CKO-CS15-060027-4201		
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	15°		
Field Angle (D10)	32°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	820 lm	Measured @ 7 W	
Material	PC / UL94V2		

cd/klm

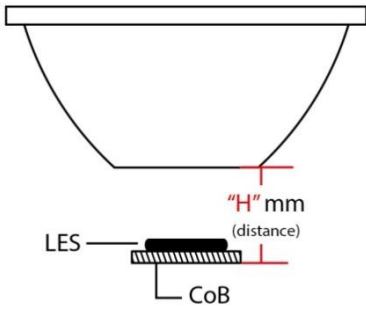


Illuminance At Distances

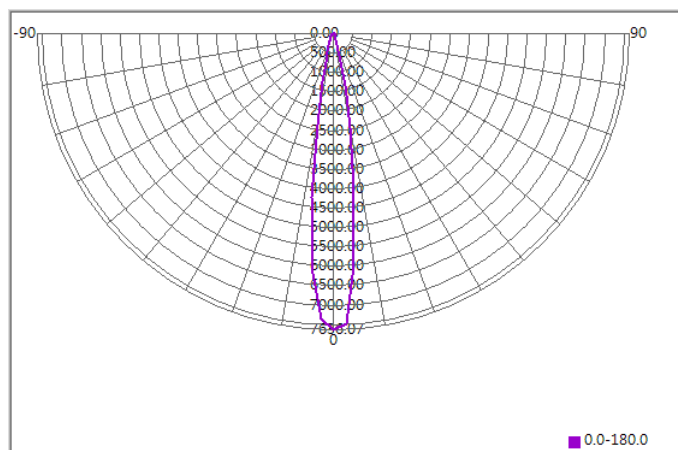




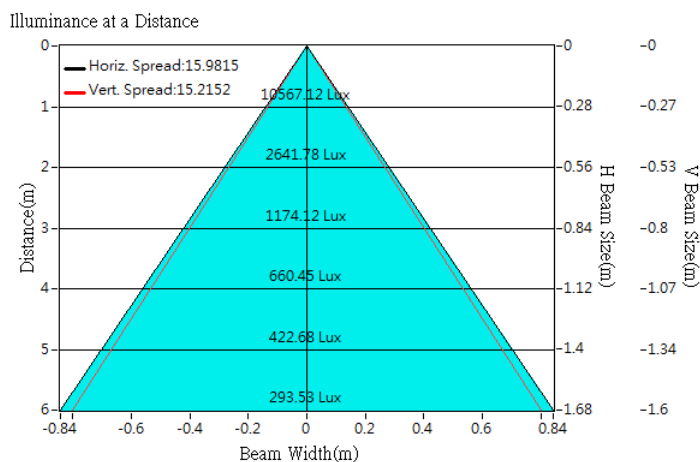
Optical Characteristics

Model Number	CKO-CS15-060027-4201		
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	15°		
Field Angle (D10)	30°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1383 lm	Measured @ 12.7 W	
Material	PC / UL94V2		

cd/klm

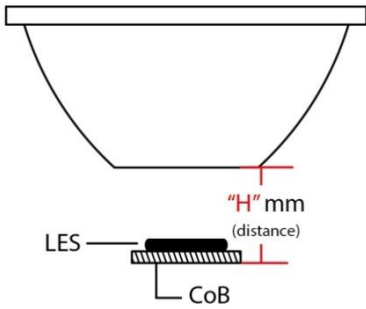


Illuminance At Distances

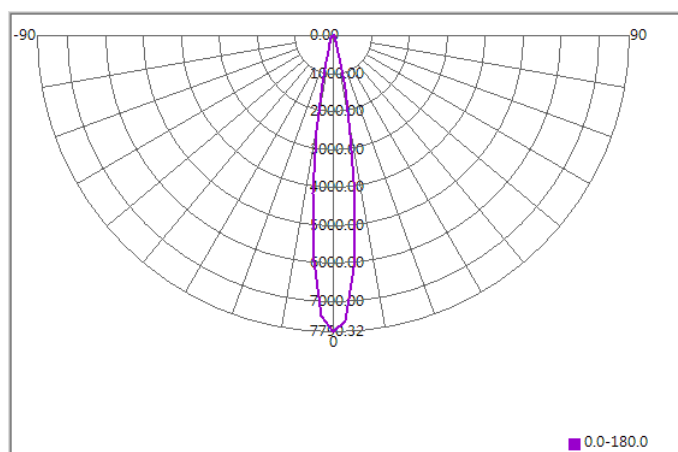




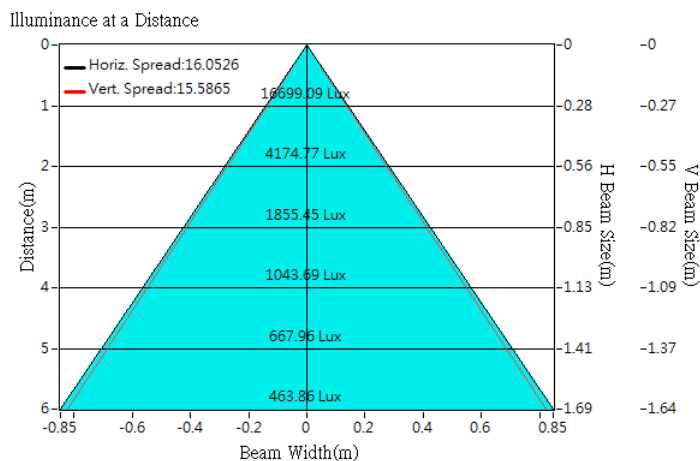
Optical Characteristics

Model Number	CKO-CS15-060027-4201		“H” definition 
LED	CMT1420		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	16°		
Field Angle (D10)	30°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2143 lm	Measured @ 19.0 W	
Material	PC / UL94V2		

cd/klm

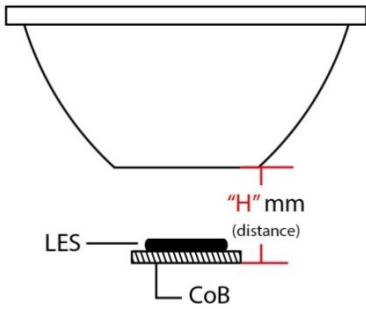


Illuminance At Distances

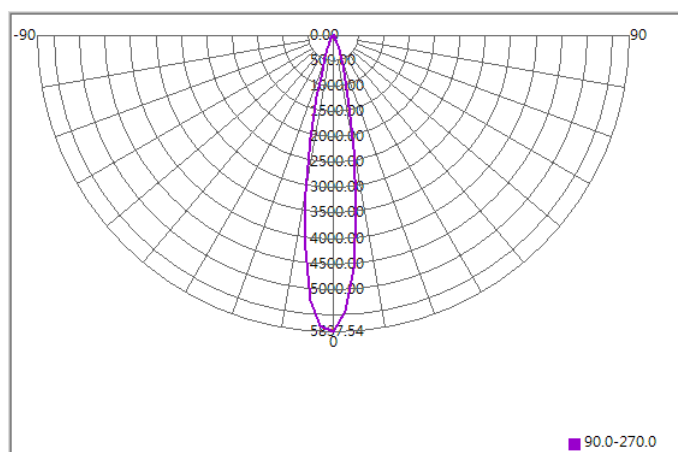




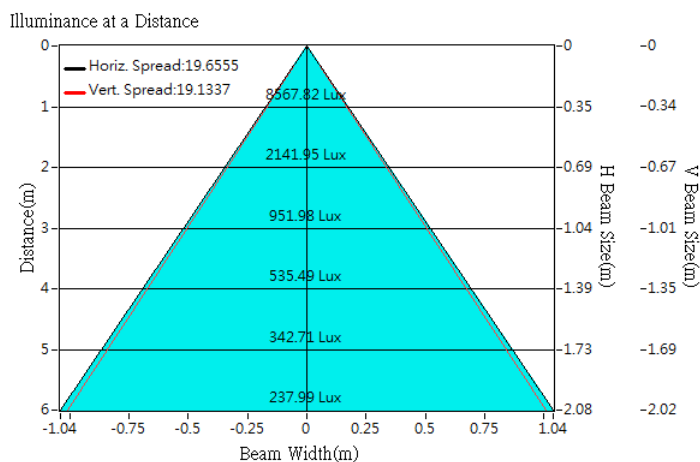
Optical Characteristics

Model Number	CKO-CS15-060027-4201		
LED	CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	19°		
Field Angle (D10)	37°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1467 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

cd/klm

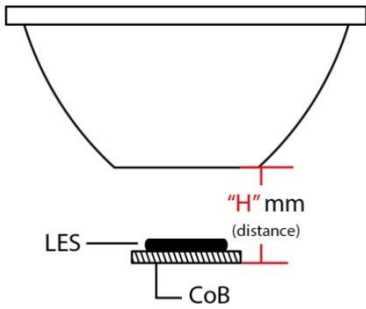


Illuminance At Distances

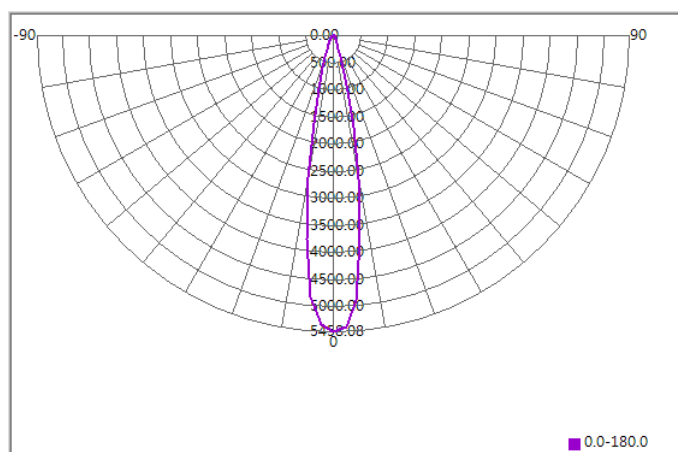




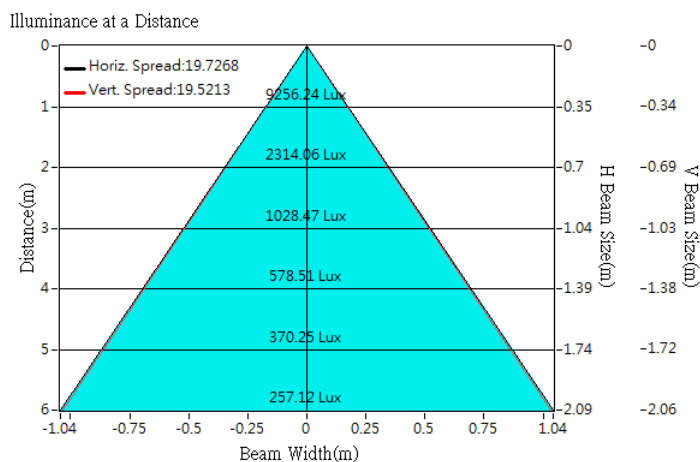
Optical Characteristics

Model Number	CKO-CS15-060027-4201		"H" definition
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	19°		
Field Angle (D10)	37°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1695 lm	Measured @ 15.7 W	
Material	PC / UL94V2		

cd/klm

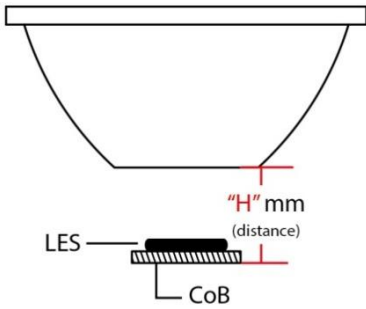


Illuminance At Distances

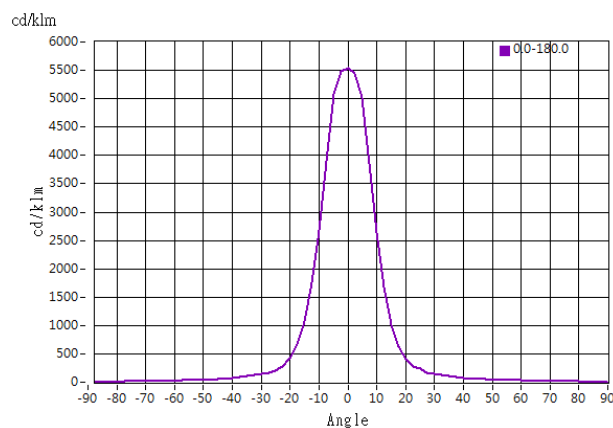




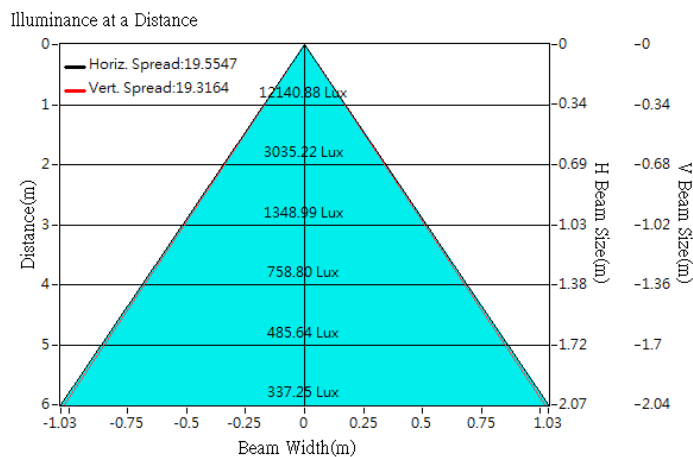
Optical Characteristics

Model Number		CKO-CS15-060027-4201	"H" definition
LED	CXB 1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	19°		
Field Angle (D10)	37°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2192 lm	Measured @ 19.6 W	
Material	PC / UL94V2		

cd/klm

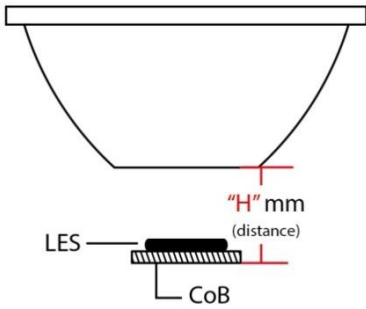


Illuminance At Distances

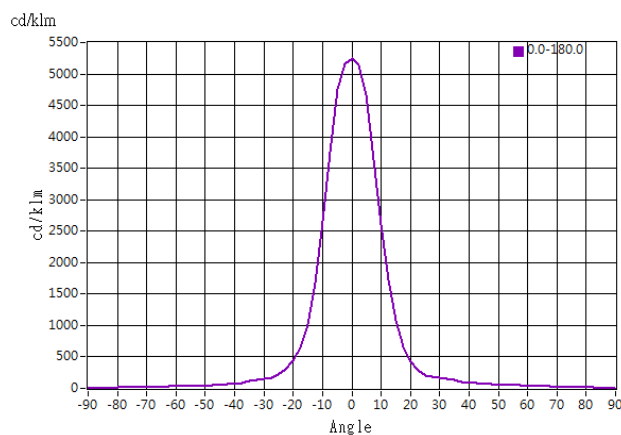




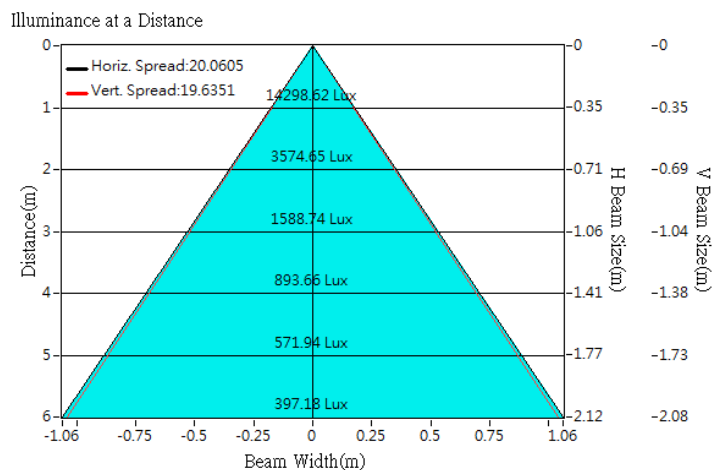
Optical Characteristics

Model Number	CKO-CS15-060027-4201		
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	20°		
Field Angle (D10)	38°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2729 lm	Measured @ 25.2 W	
Material	PC / UL94V2		

cd/klm

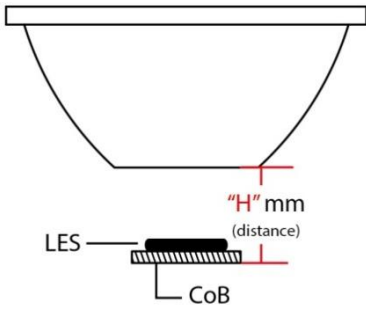


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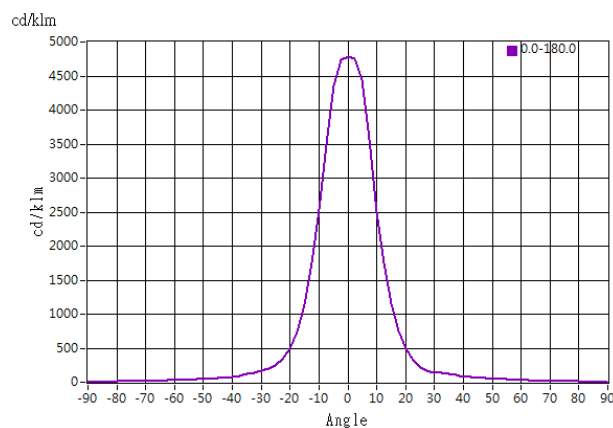




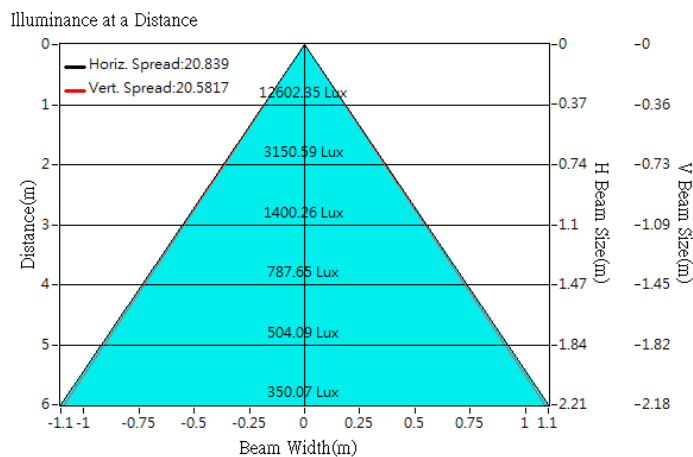
Optical Characteristics

Model Number		CKO-CS15-060027-4201	"H" definition
LED	CXA 1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	21°		
Field Angle (D10)	40°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2633 lm	Measured @ 29.0 W	
Material	PC / UL94V2		

cd/klm

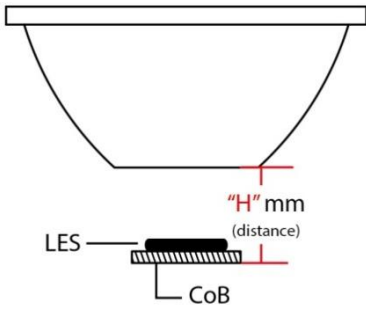


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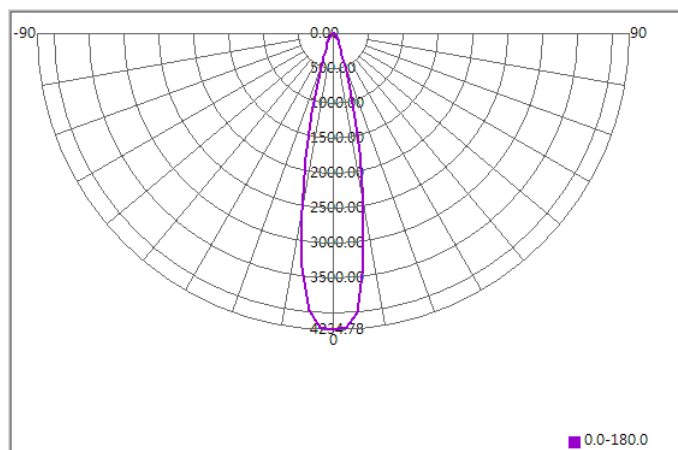




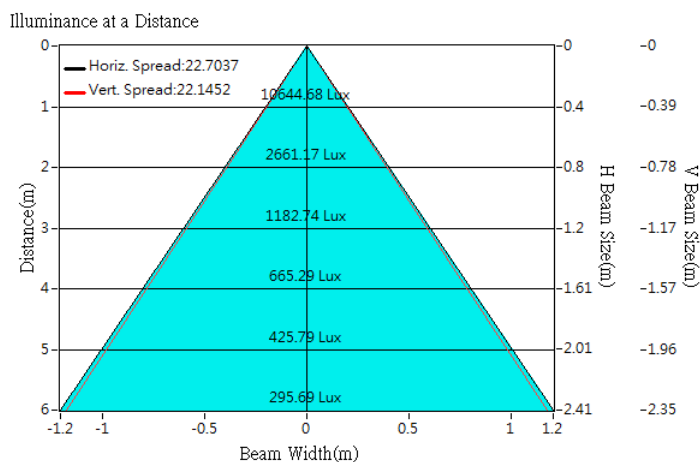
Optical Characteristics

Model Number	CKO-CS15-060027-4201		"H" definition 
LED	CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	23°		
Field Angle (D10)	43°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2513 lm	Measured @ 27.8 W	
Material	PC / UL94V2		

cd/klm

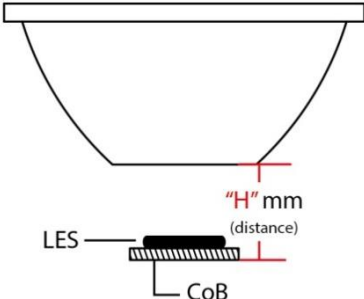


Illuminance At Distances

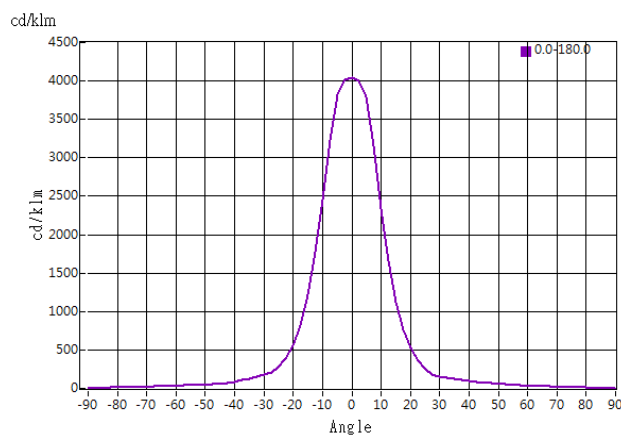




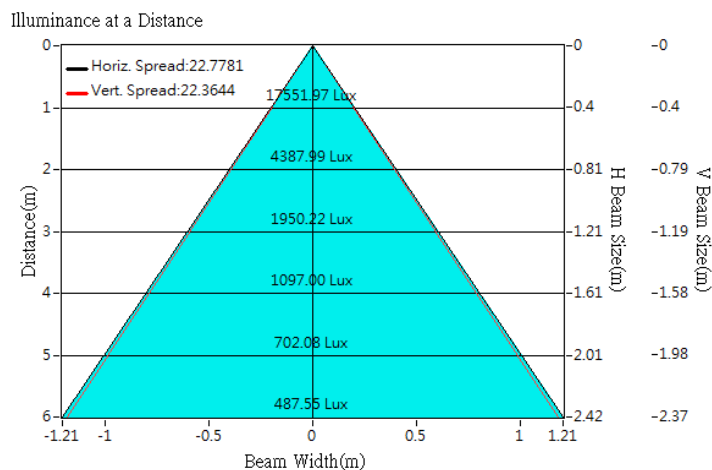
Optical Characteristics

Model Number	CKO-CS15-060027-4201		"H" definition 
LED	CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	23°		
Field Angle (D10)	44°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	4337 lm	Measured @ 38.8 W	
Material	PC / UL94V2		

cd/klm

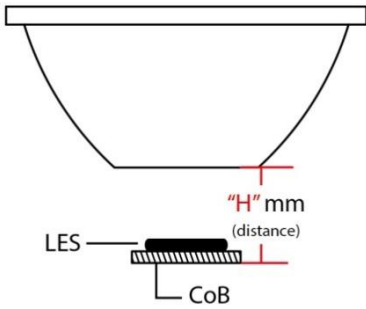


Illuminance At Distances

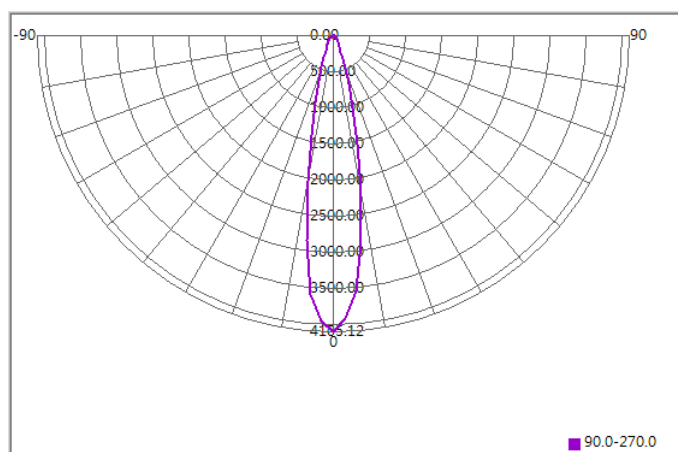




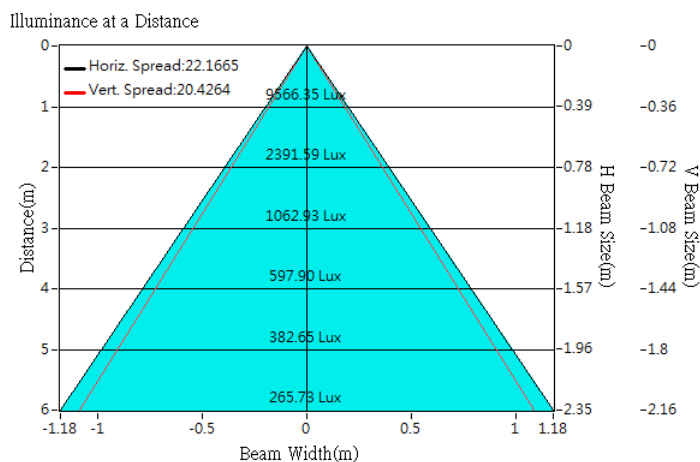
Optical Characteristics

Model Number		CKO-CS15-060027-4201	"H" definition
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	22°		
Field Angle (D10)	43°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2330 lm	Measured @ 21.7 W	
Material	PC / UL94V2		

cd/klm

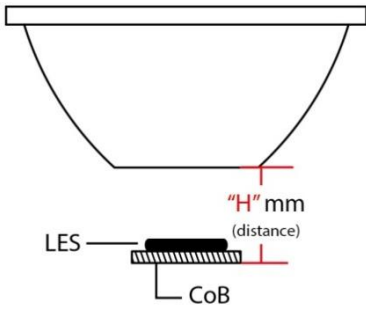


Illuminance At Distances

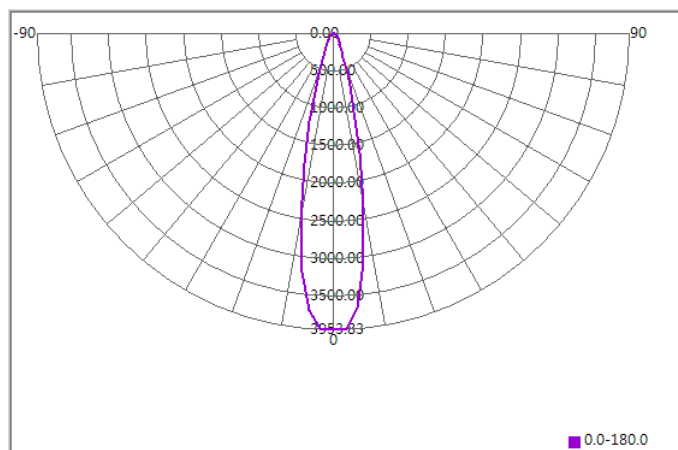




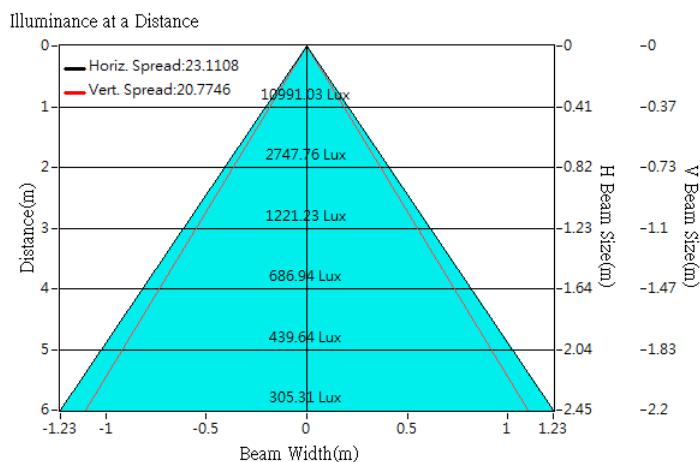
Optical Characteristics

Model Number	CKO-CS15-060027-4201		
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	23°		
Field Angle (D10)	44°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2779 lm	Measured @ 25.3 W	
Material	PC / UL94V2		

cd/klm

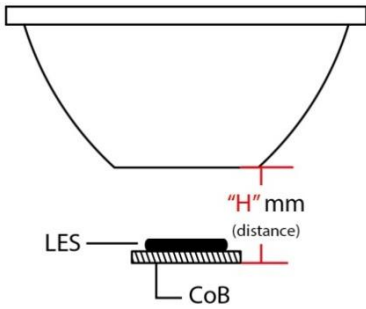


Illuminance At Distances

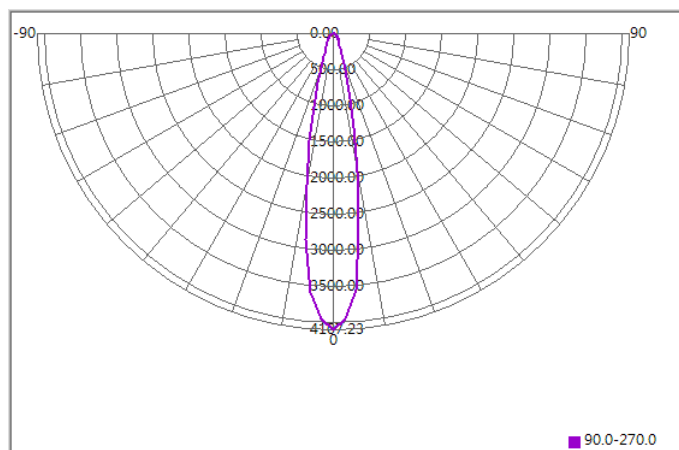




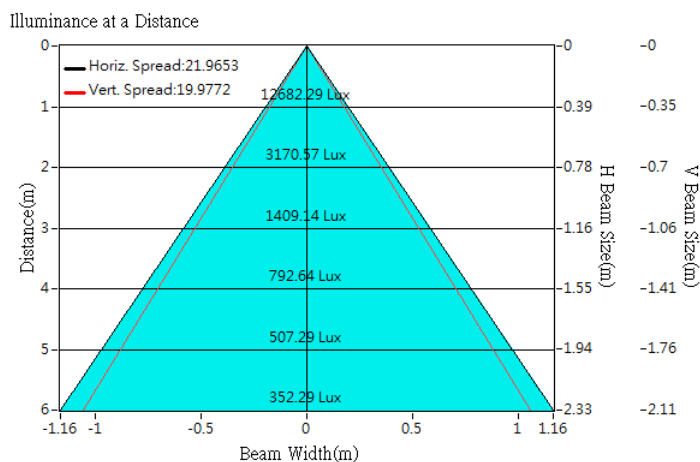
Optical Characteristics

Model Number	CKO-CS15-060027-4201		
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	22°		
Field Angle (D10)	43°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	3087 lm	Measured @ 29 W	
Material	PC / UL94V2		

cd/klm

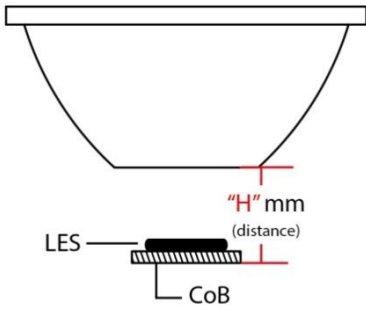


Illuminance At Distances

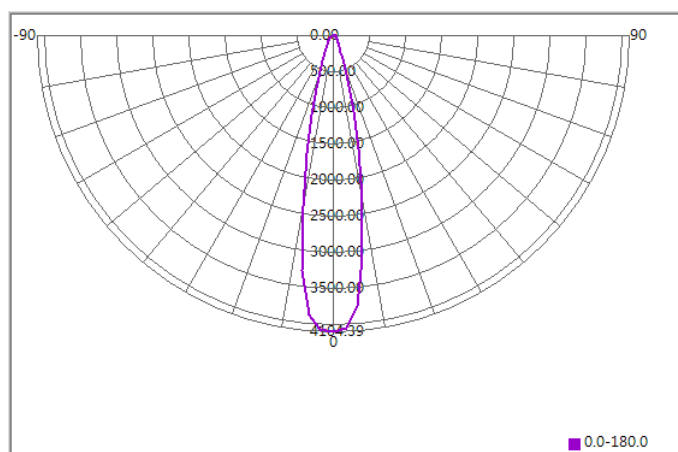




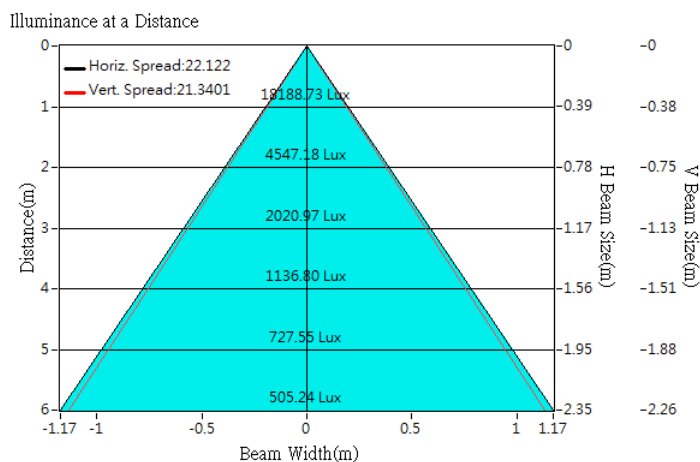
Optical Characteristics

Model Number	CKO-CS15-060027-4201		
LED	CMT1945		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	22°		
Field Angle (D10)	43°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	4431 lm	Measured @ 43.8 W	
Material	PC / UL94V2		

cd/klm

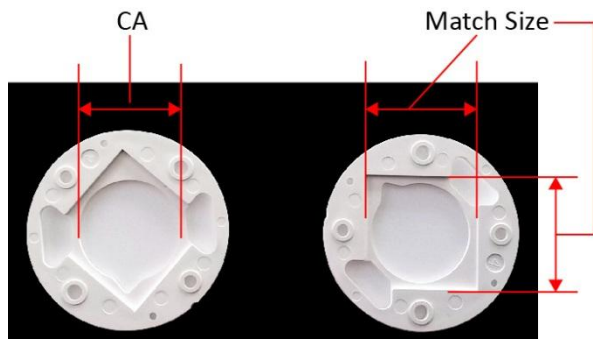


Illuminance At Distances





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