



Product Model Number

CKO-CS15-060027-4260

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

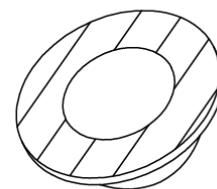
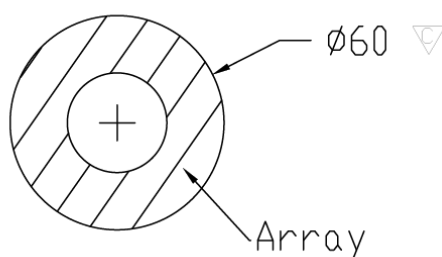
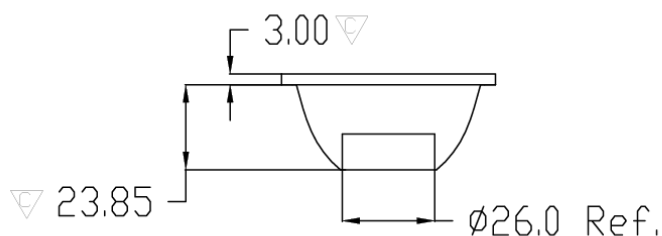


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ60 x 26.85



▽:Critical Dimension



✓ **Optical Characteristics – Angle Performances**

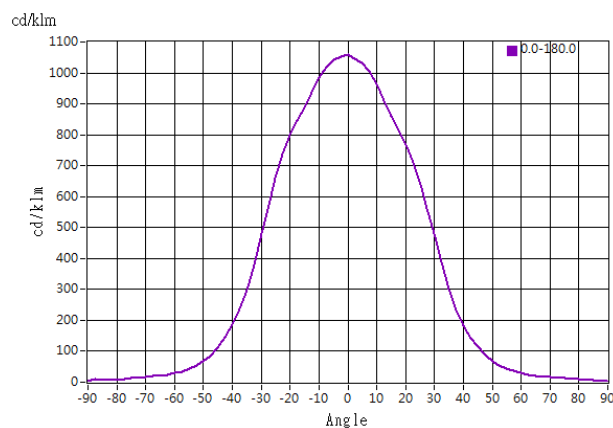
Cree	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1512	Φ9	57°	91°
CXB1512	Φ9	58°	92°
CMA1516	Φ9	57°	91°
CXB1520	Φ9	55°	89°
CMT1407	Φ9.8	56°	90°
CMT1412	Φ9.8	56°	90°
CXA1816	Φ12	60°	93°
CXB1816	Φ12	58°	93°
CXA1820	Φ12	57°	92°
CXB1820	Φ12	59°	94°
CMA1825	Φ12	56°	92°
CXA1830	Φ14	57°	92°
CXB1830	Φ14	57°	92°
CMA1840	Φ14	56°	90°
CMT1922	Φ14.5	56°	92°
CMT1925	Φ14.5	55°	90°
CMT1945	Φ14.5	56°	91°



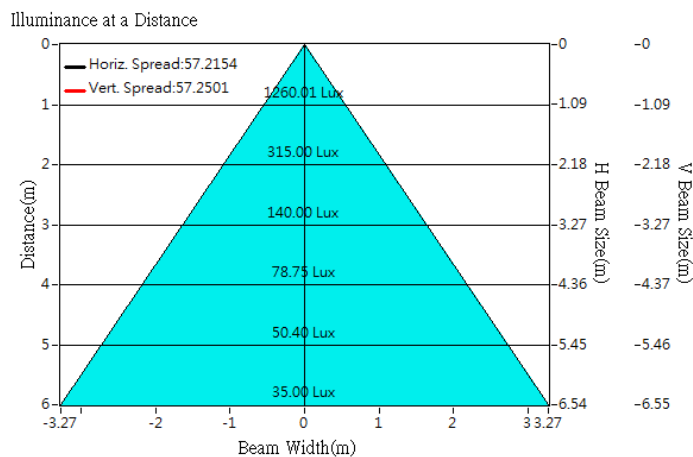
Optical Characteristics

Model Number	CKO-CS15-060027-4260		
LED	CXA1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	57°		
Field Angle (D10)	91°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1191 lm	Measured @ 13.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

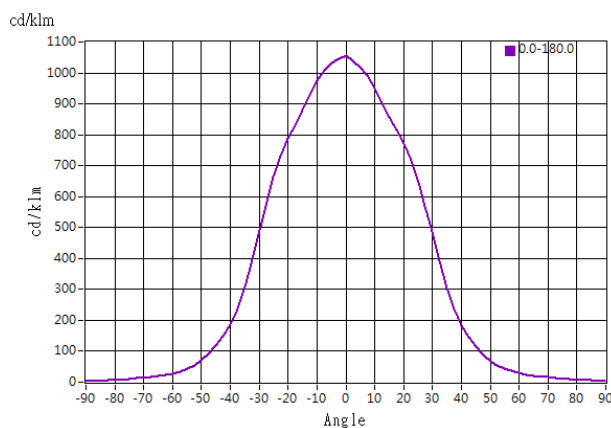




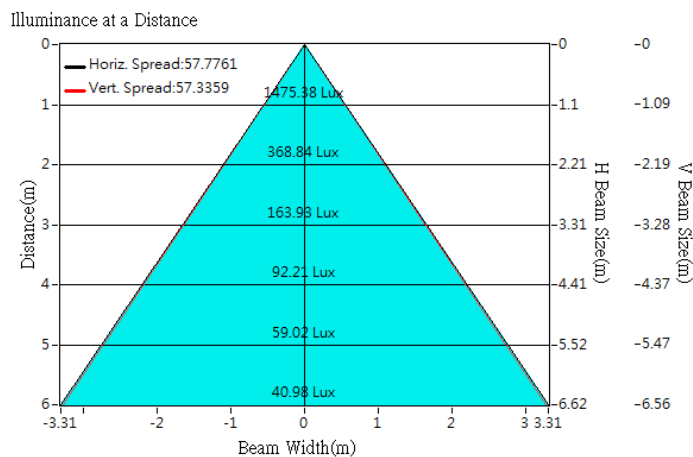
Optical Characteristics

Model Number		CKO-CS15-060027-4260		"H" definition
LED	CXB1512			
LES / LED Size	Φ 9 mm			
FWHM (D50)	58°			
Field Angle (D10)	92°			
H (distance)	3.65mm			
Dimension	Φ =60 mm, Thickness=26.85 mm			
Luminous Flux	1397 lm	Measured @ 12.5 W		
Material	PC / UL94V2			

cd/klm



Illuminance At Distances

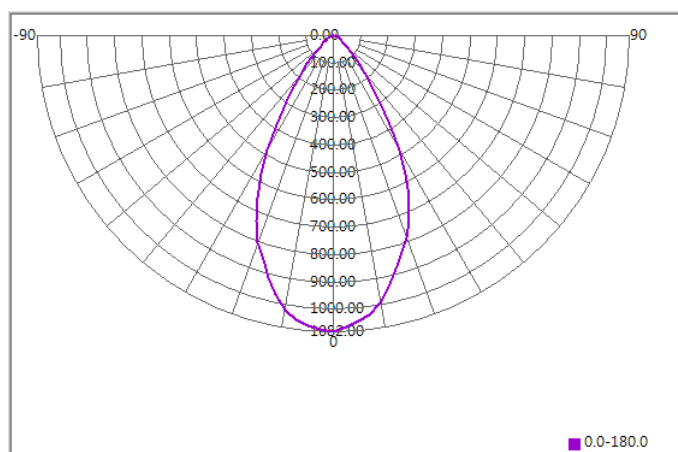




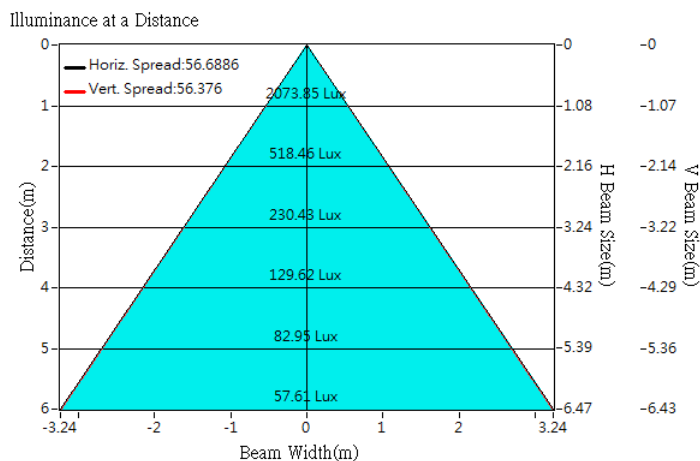
Optical Characteristics

Model Number	CKO-CS15-060027-4260		
LED	CMA1516		
LES / LED Size	Φ 9 mm		
FWHM (D50)	57°		
Field Angle (D10)	91°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1916 lm	Measured @15.5W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

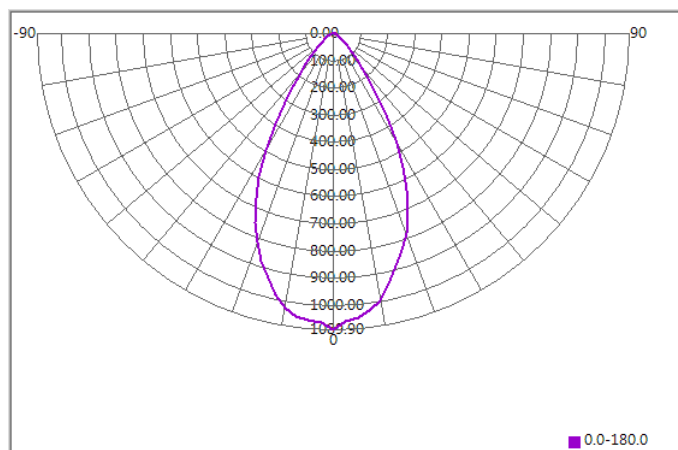




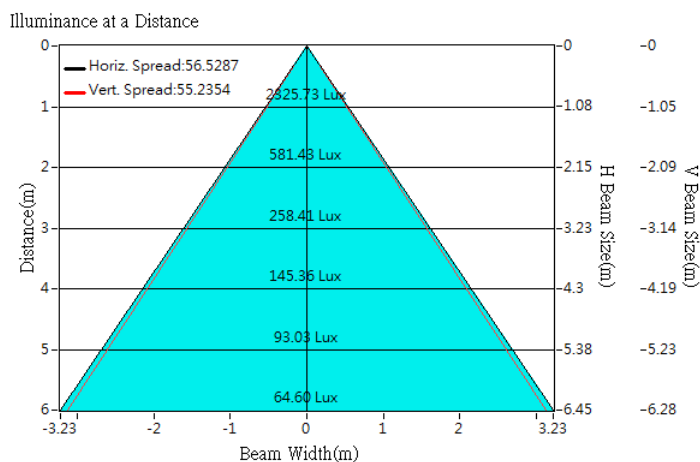
Optical Characteristics

Model Number	CKO-CS15-060027-4260		"H" definition 
LED	CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	55°		
Field Angle (D10)	89°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2134 lm	Measured @ 16.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

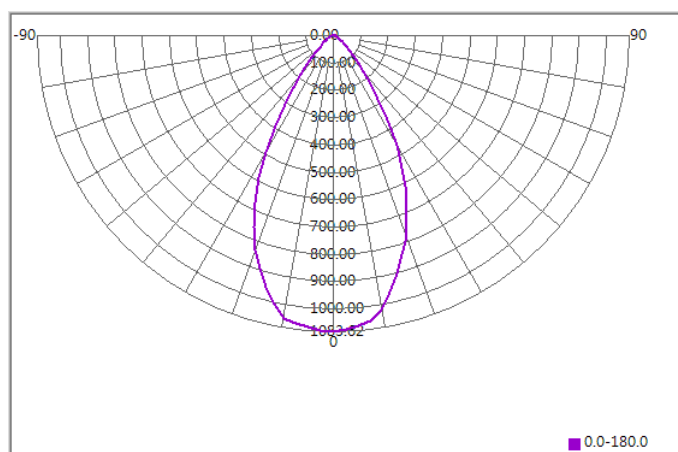




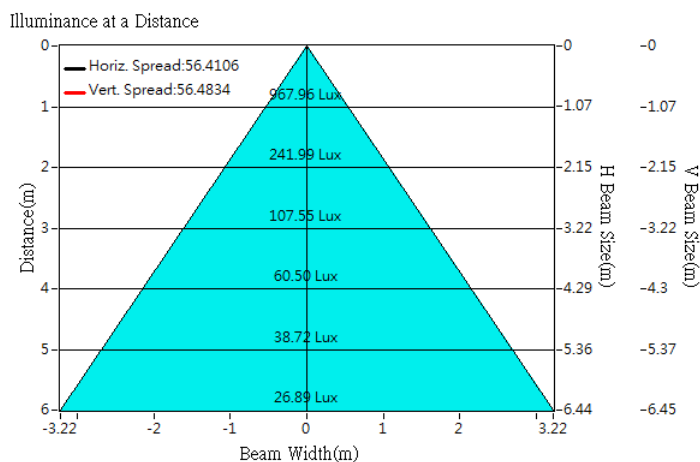
Optical Characteristics

Model Number	CKO-CS15-060027-4260		
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	56°		
Field Angle (D10)	90°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	893 lm	Measured @ 7.0 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

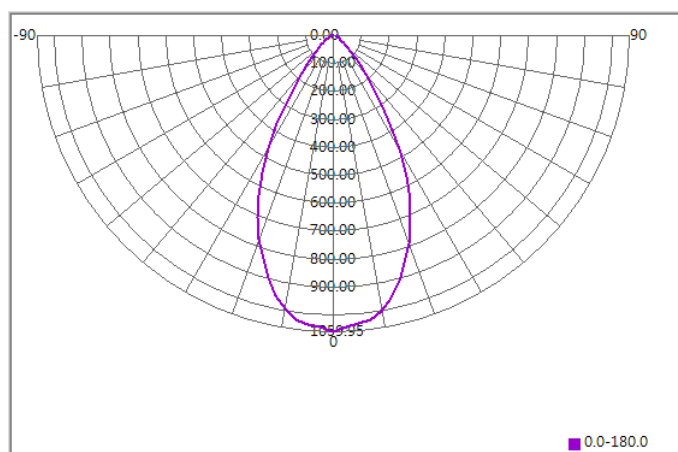




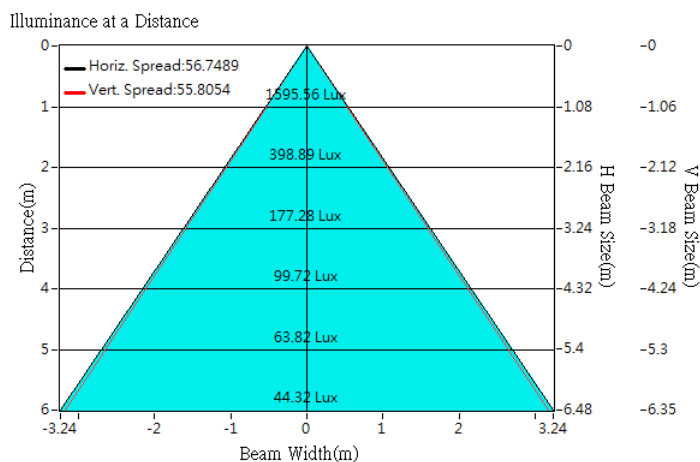
Optical Characteristics

Model Number	CKO-CS15-060027-4260		
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	56°		
Field Angle (D10)	90°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1505 lm	Measured @ 12.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances





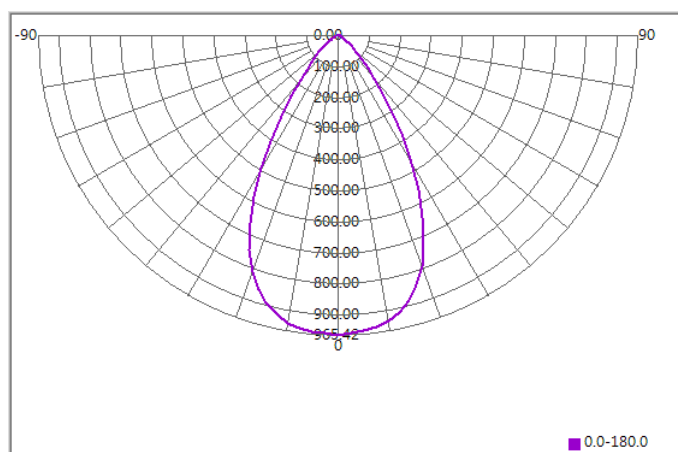
Optical Characteristics

Model Number		CKO-CS15-060027-4260		"H" definition
LED		CXA1816		
LES / LED Size		Φ 12 mm		
FWHM (D50)		60°		
Field Angle (D10)		93°		
H (distance)		3.65 mm		
Dimension		Φ =60 mm, Thickness=26.85 mm		
Luminous Flux		1639 lm	Measured @ 16.7 W	
Material		PC / UL94V2		

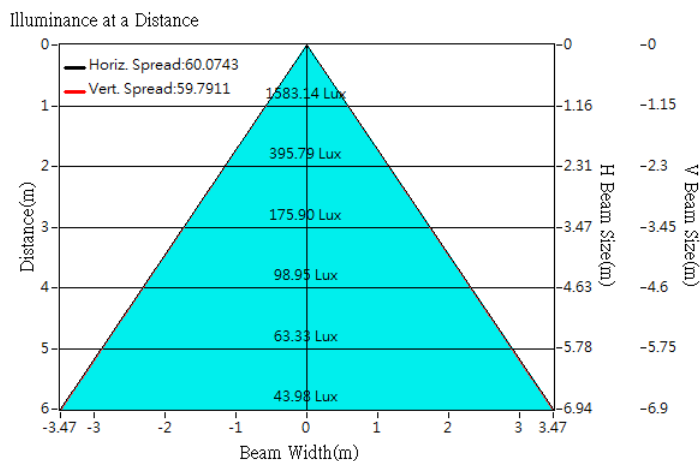


The diagram illustrates the "H" definition, which is the distance from the LED chip (LES) to the center of the beam spread (CoB). The LED chip is shown as a black rectangle on a hatched base. The beam spread is represented by a semi-circular arc. The distance "H" is indicated by a red line with arrows at both ends, labeled "H" mm (distance).

cd/klm

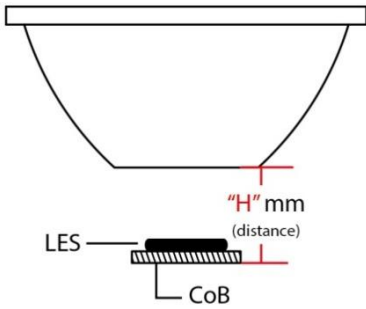


Illuminance At Distances

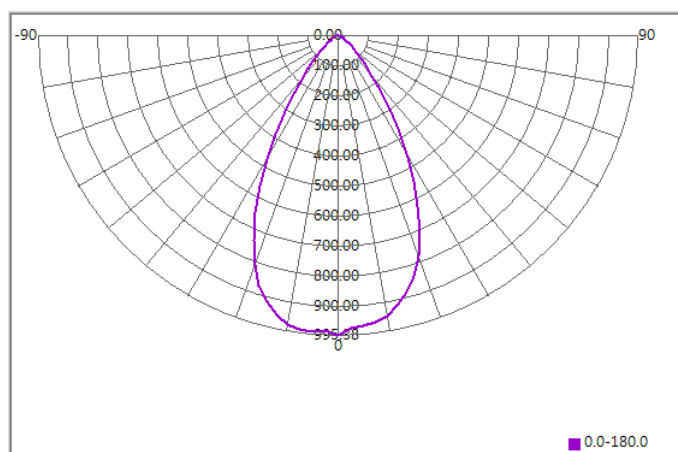




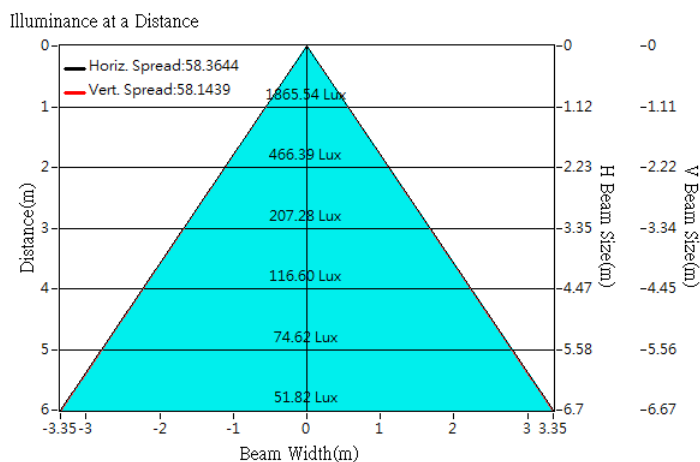
Optical Characteristics

Model Number	CKO-CS15-060027-4260		"H" definition
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	58°		
Field Angle (D10)	93°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1874 lm	Measured @ 15.6 W	
Material	PC / UL94V2		

cd/klm

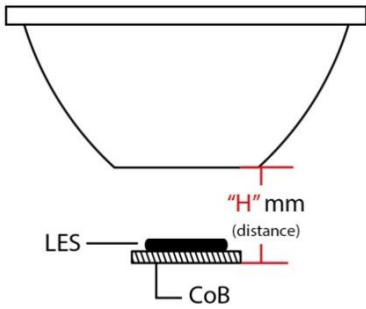


Illuminance At Distances

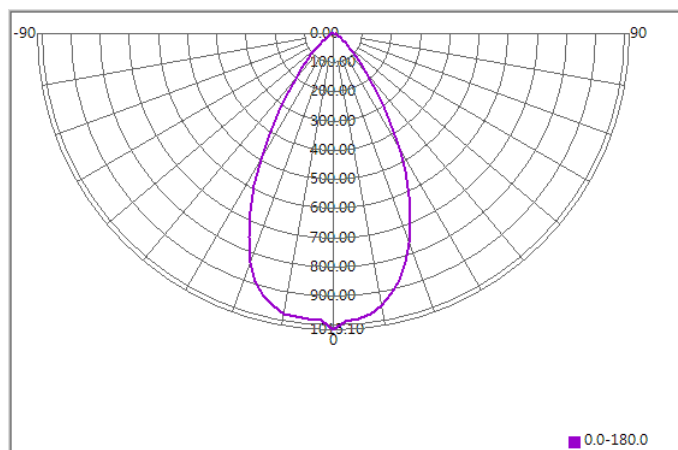




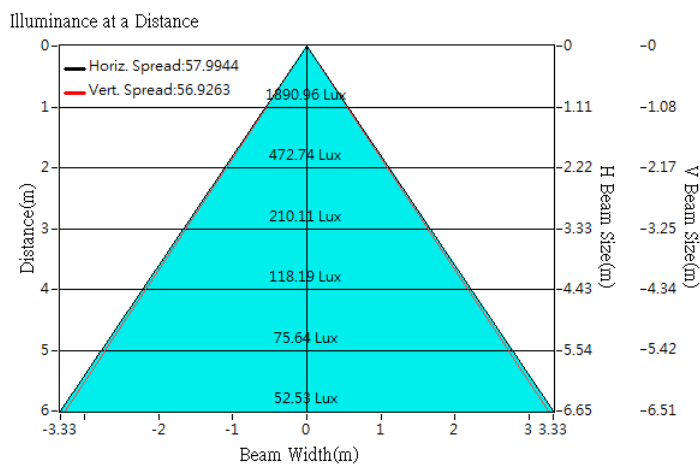
Optical Characteristics

Model Number	CKO-CS15-060027-4260		“H” definition 
LED	CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	57°		
Field Angle (D10)	92°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1862 lm	Measured @ 19.7 W	
Material	PC / UL94V2		

cd/klm

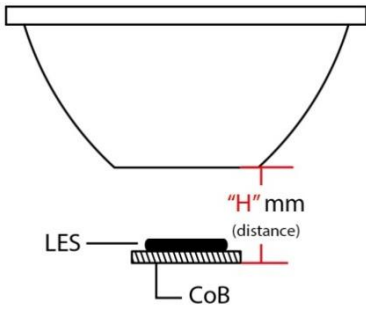


Illuminance At Distances

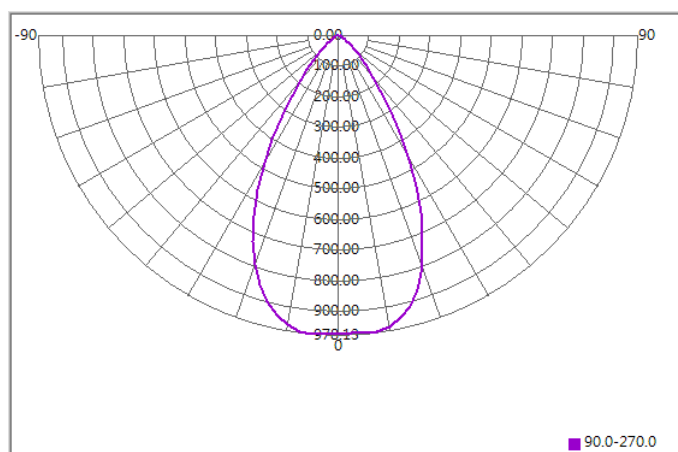




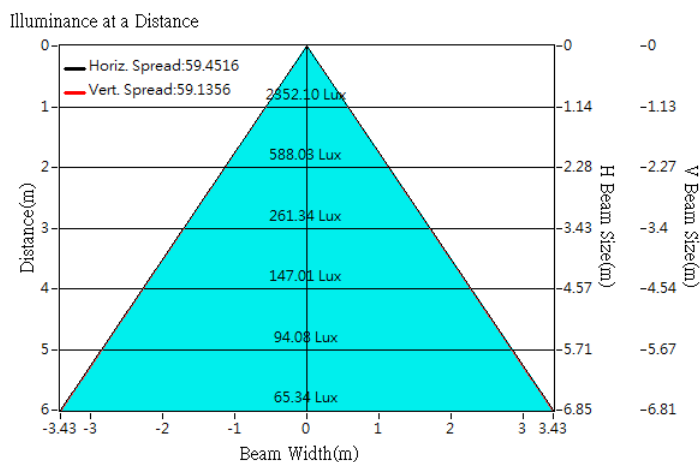
Optical Characteristics

Model Number	CKO-CS15-060027-4260		“H” definition 
LED	CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	59°		
Field Angle (D10)	94°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2416 lm	Measured @ 19.3 W	
Material	PC / UL94V2		

cd/klm

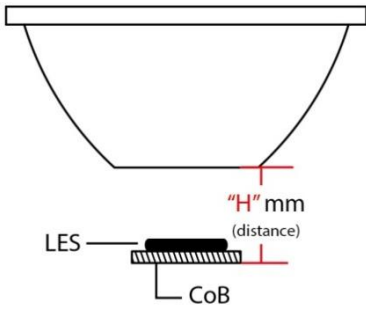


Illuminance At Distances

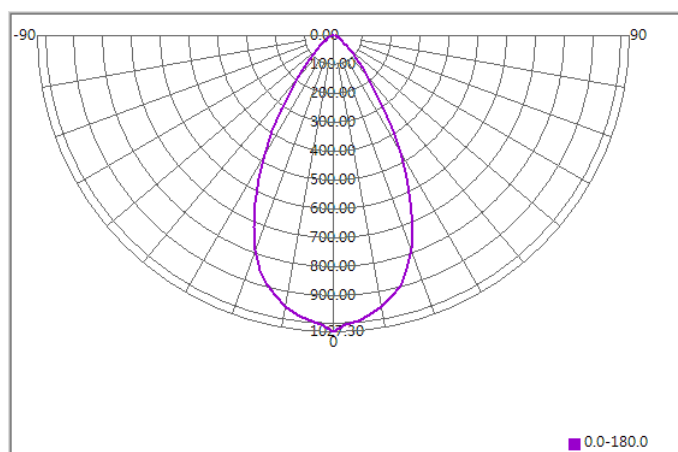




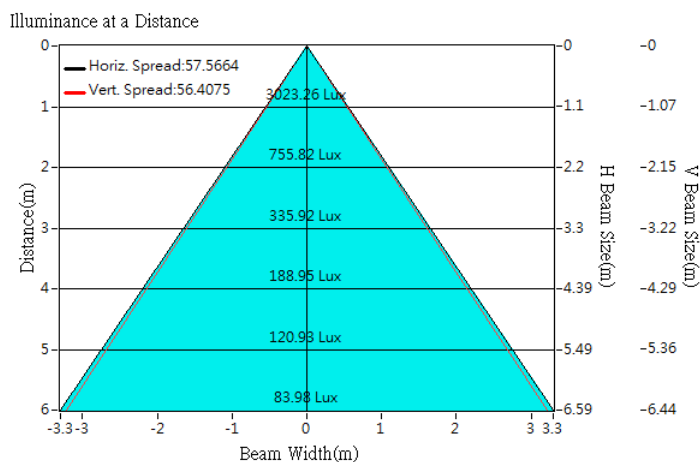
Optical Characteristics

Model Number	CKO-CS15-060027-4260		"H" definition 
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	56°		
Field Angle (D10)	92°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2942 lm	Measured @ 24.8 W	
Material	PC / UL94V2		

cd/klm

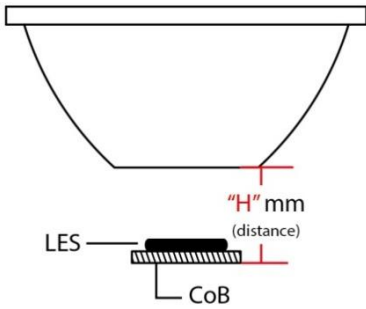


Illuminance At Distances

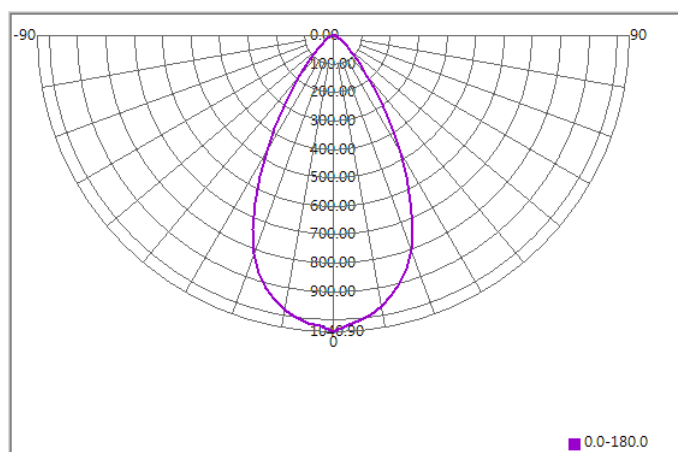




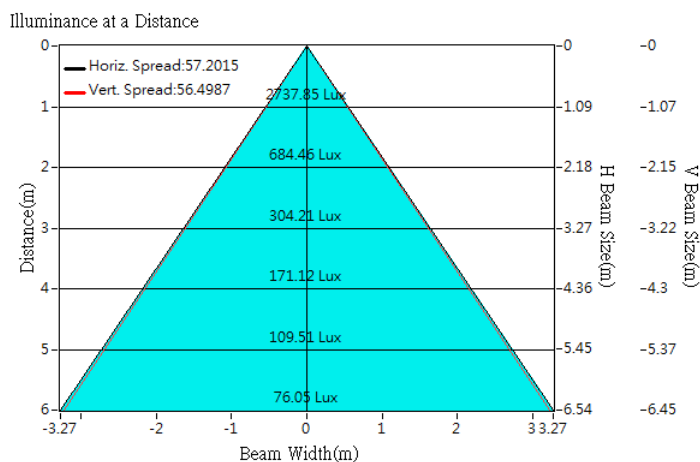
Optical Characteristics

Model Number	CKO-CS15-060027-4260		
LED	CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	57°		
Field Angle (D10)	92°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2630 lm	Measured @ 27.4 W	
Material	PC / UL94V2		

cd/klm

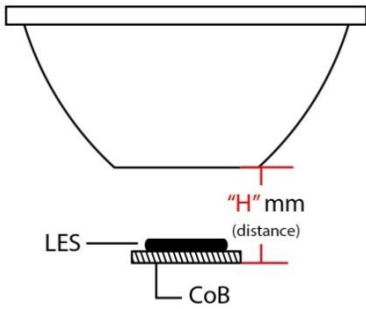


Illuminance At Distances

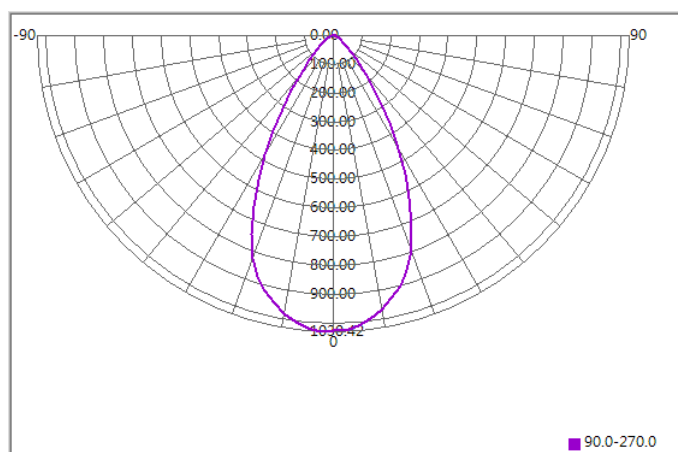




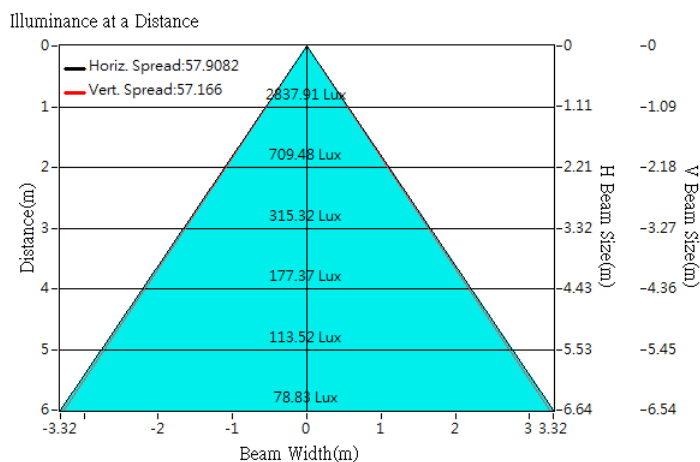
Optical Characteristics

Model Number	CKO-CS15-060027-4260		"H" definition 
LED	CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	57°		
Field Angle (D10)	92°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2768 lm	Measured @ 27.8 W	
Material	PC / UL94V2		

cd/klm

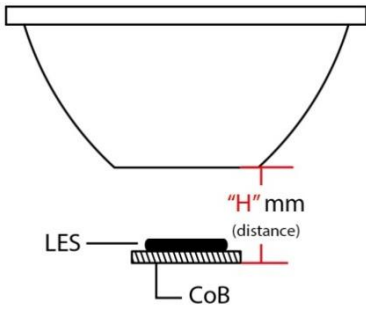


Illuminance At Distances

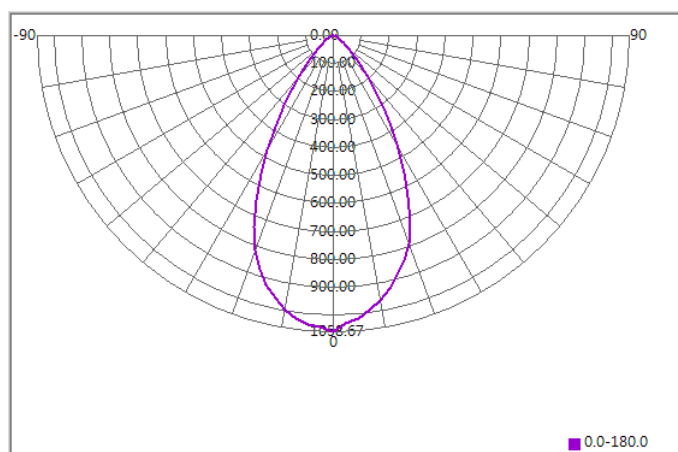




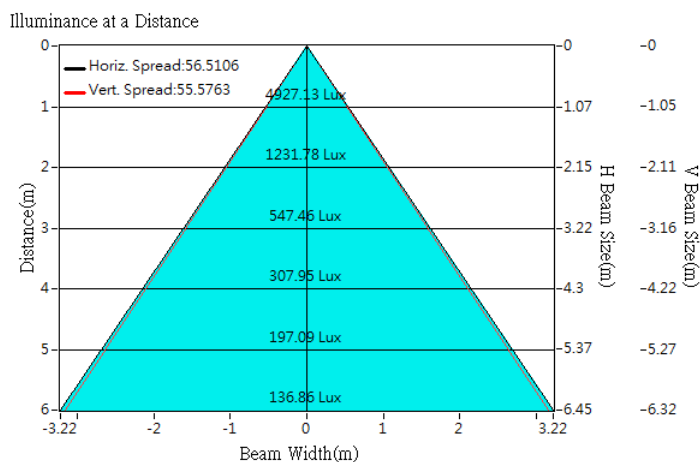
Optical Characteristics

Model Number	CKO-CS15-060027-4260		“H” definition 
LED	CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	56°		
Field Angle (D10)	90°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	4654 lm	Measured @ 38.3 W	
Material	PC / UL94V2		

cd/klm

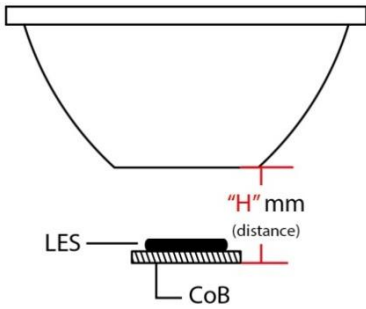


Illuminance At Distances

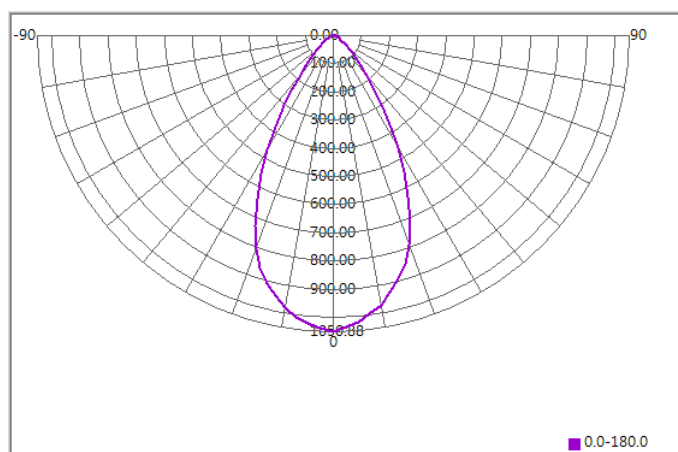




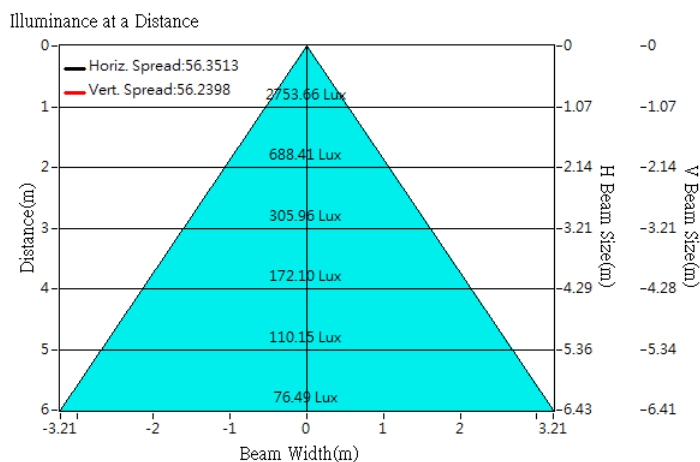
Optical Characteristics

Model Number	CKO-CS15-060027-4260		
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	56°		
Field Angle (D10)	92°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2620 lm	Measured @ 21.8 W	
Material	PC / UL94V2		

cd/klm

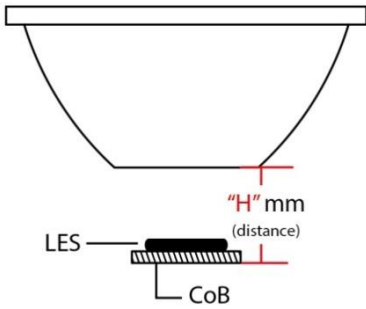


Illuminance At Distances

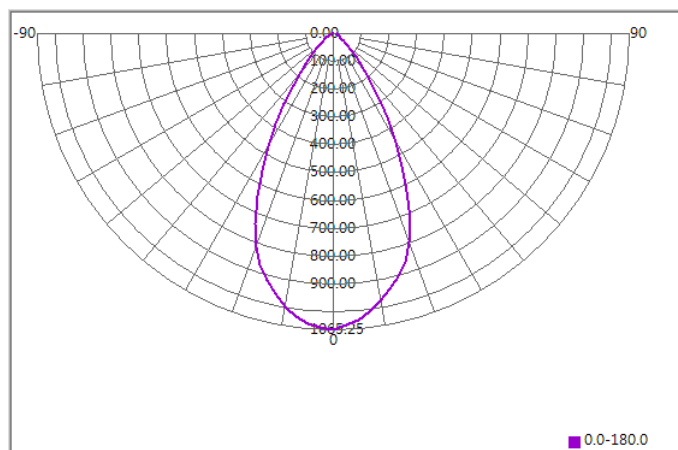




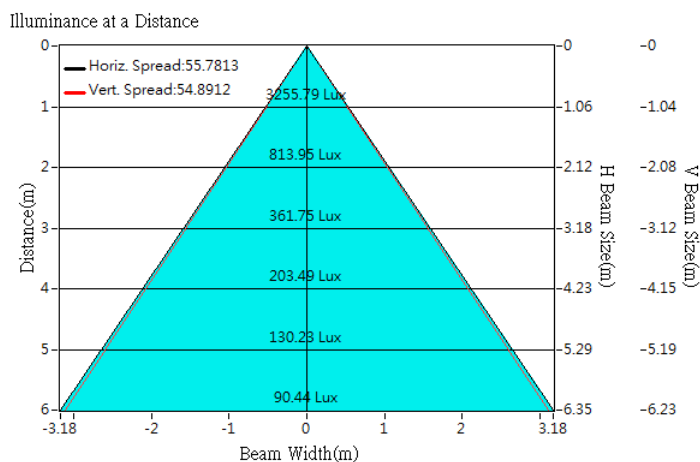
Optical Characteristics

Model Number	CKO-CS15-060027-4260		"H" definition 
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	55°		
Field Angle (D10)	90°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	3056 lm	Measured @ 25.2 W	
Material	PC / UL94V2		

cd/klm

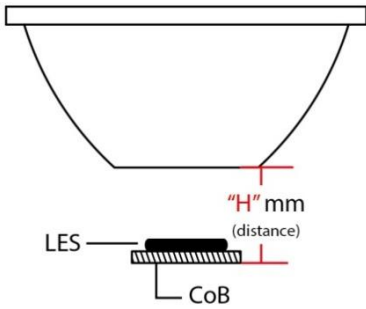


Illuminance At Distances

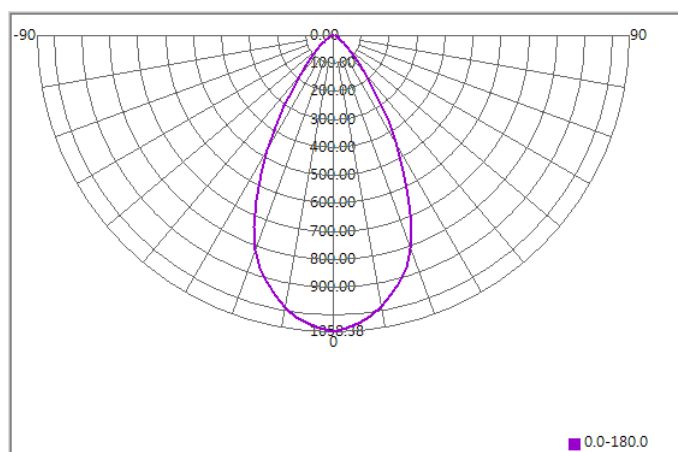




Optical Characteristics

Model Number	CKO-CS15-060027-4260		
LED	CMT1945		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	56°		
Field Angle (D10)	91°		
H (distance)	3.65 mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	5004 lm	Measured @ 43.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

