



Product Model Number

CKO-SA17-045021-1311

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

(A)

(B)

(C)

(D)

(E)

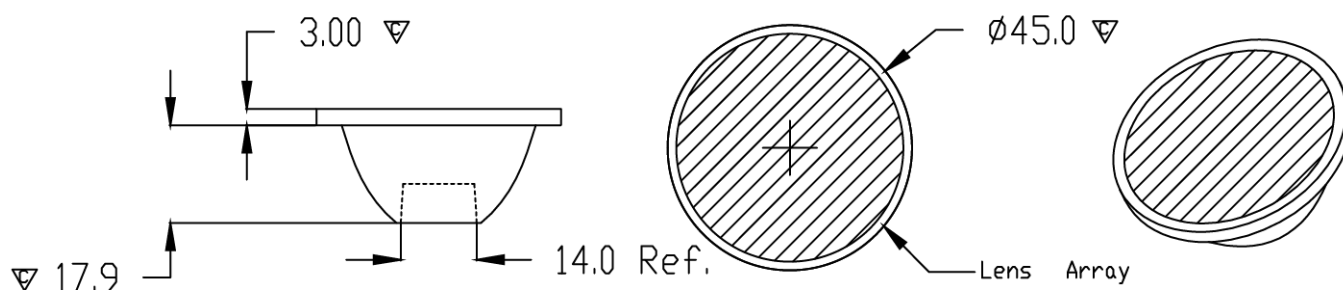


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
SA→Soft Shading for CoB LED - Asymmetry
HC→Holder for CoB LED

- 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) : Φ45 x 20.9



▽:Critical Dimension



✓ Optical Characteristics – Angle Performances

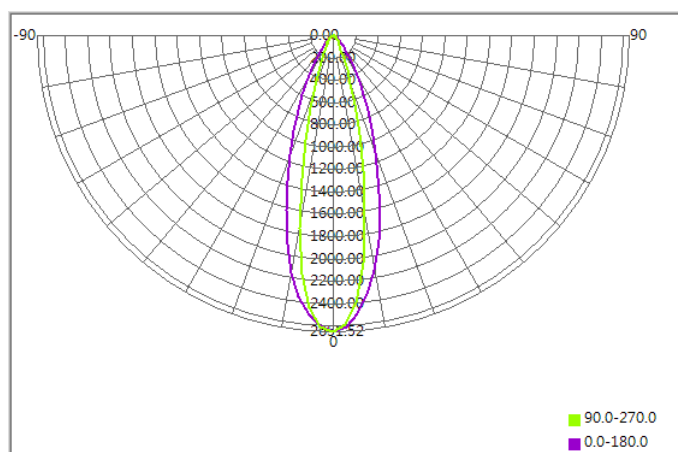
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)	"H"mm
CMA1303	Φ4.5	24°x35°	49°x71°	2.5
CXA1304	Φ6	29°x38°	53°x75°	2.5
CXB1304	Φ6	28°x37°	51°x74°	2.5
CXB1310	Φ6	28°x36°	48°x73°	2.5
CXA1507	Φ9	34°x39°	55°x80°	2.5
CXB1507	Φ9	33°x40°	59°x80°	2.5
CXA1510	Φ9	34°x39°	55°x79°	2.5
CXA1512	Φ9	32°x39°	56°x79°	2.5
CXB1512	Φ9	33°x39°	58°x78°	2.5
CMA1516	Φ9	34°x40°	56°x79°	2.5
CXB1520	Φ9	35°x40°	59°x80°	2.5
CMT1407	Φ9.8	34°x40°	61°x80°	2.5
CMT1412	Φ9.8	34°x40°	61°x80°	2.5
CMT1420	Φ9.8	34°x40°	62°x81°	2.5
CXB1816	Φ12	41°x44°	69°x86°	2.5
CXB1820	Φ12	42°x45°	72°x88°	2.5
CMA1825	Φ12	42°x45°	74°x91°	2.5



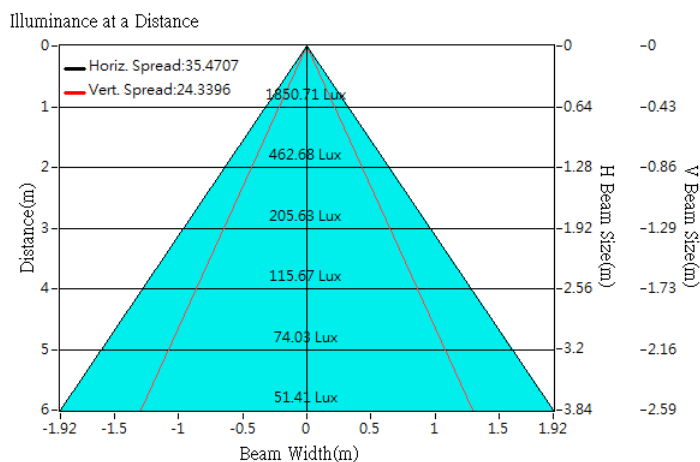
Optical Characteristics

Model Number	CKO-SA17-045021-1311		
LED	CMA1303		
LES / LED Size	Φ 4.5 mm		
FWHM (D50)	24°x35°		
Field Angle (D10)	49°x71°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	697 lm	Measured @ 7.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

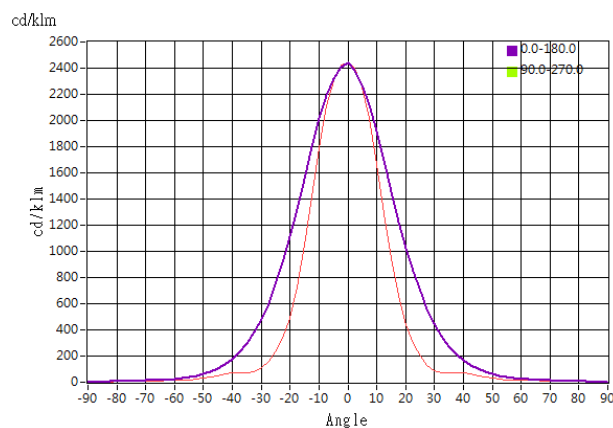




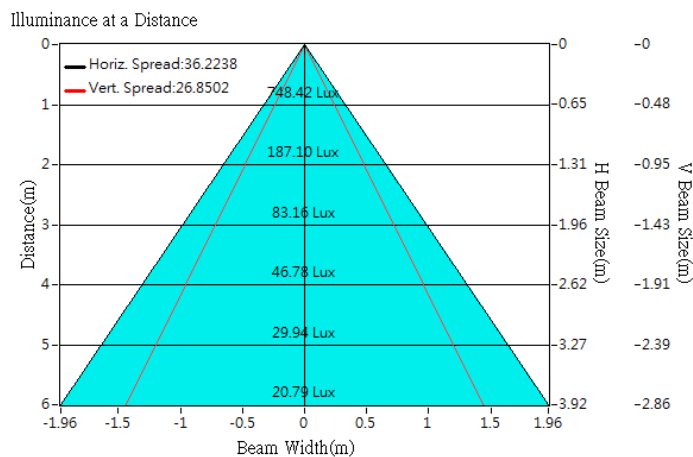
Optical Characteristics

Model Number	CKO-SA17-045021-1311		“H” definition 
LED	CXA1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	27°x36°		
Field Angle (D10)	49°x73°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	306 lm	Measured @ 2.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

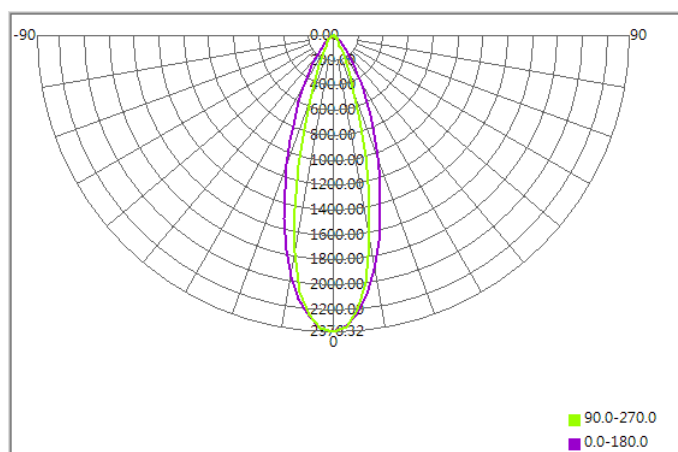




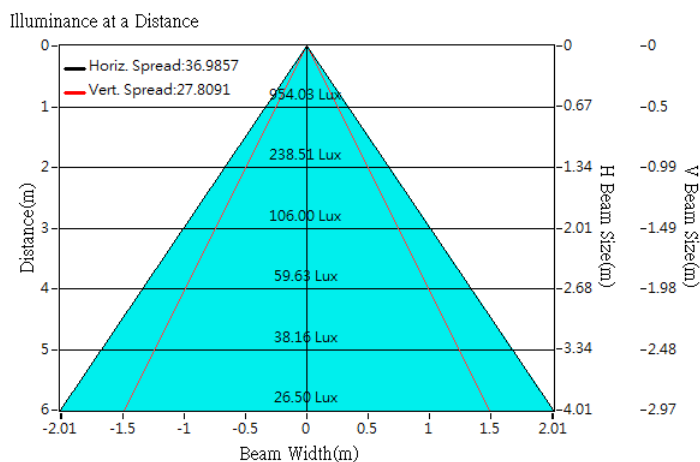
Optical Characteristics

Model Number	CKO-SA17-045021-1311		“H” definition 
LED	CXB1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	28°x37°		
Field Angle (D10)	51°x74°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	401 lm	Measured @ 3.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

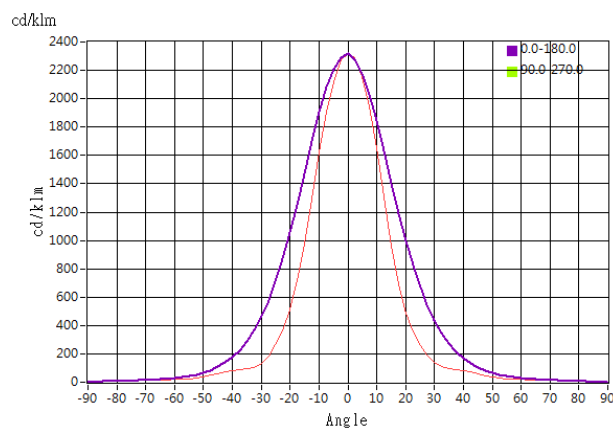




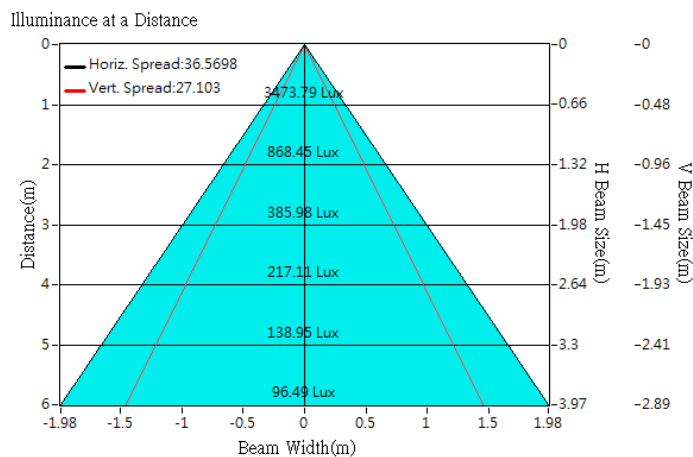
Optical Characteristics

Model Number	CKO-SA17-045021-1311		“H” definition 
LED	CXB1310		
LES / LED Size	Φ 6 mm		
FWHM (D50)	27°x37°		
Field Angle (D10)	52°x74°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1500 lm	Measured @ 11.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

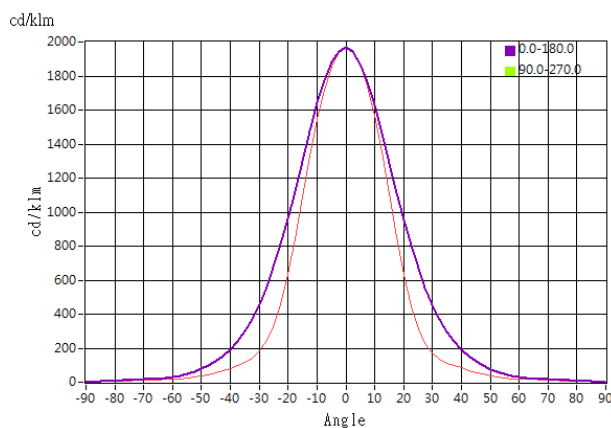




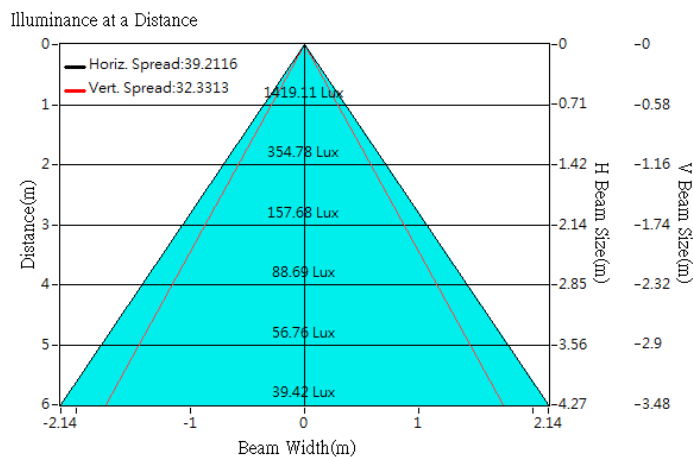
Optical Characteristics

Model Number	CKO-SA17-045021-1311		
LED	CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	32°x39°		
Field Angle (D10)	59°x79°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	721 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

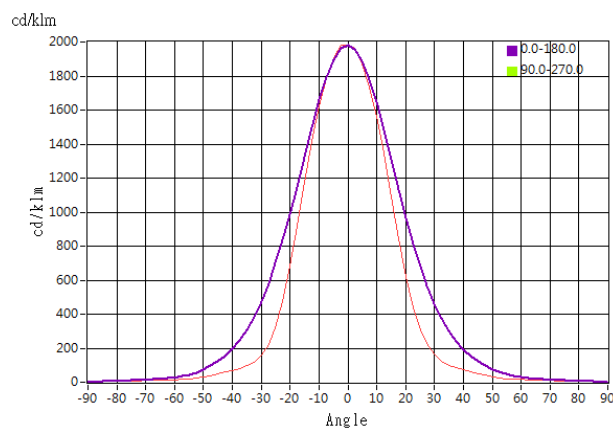




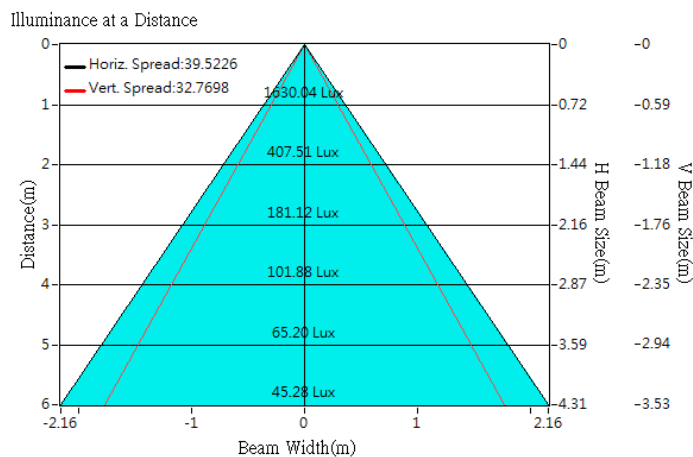
Optical Characteristics

Model Number	CKO-SA17-045021-1311		
LED	CXB1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	33°x40°		
Field Angle (D10)	57°x79°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	822 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

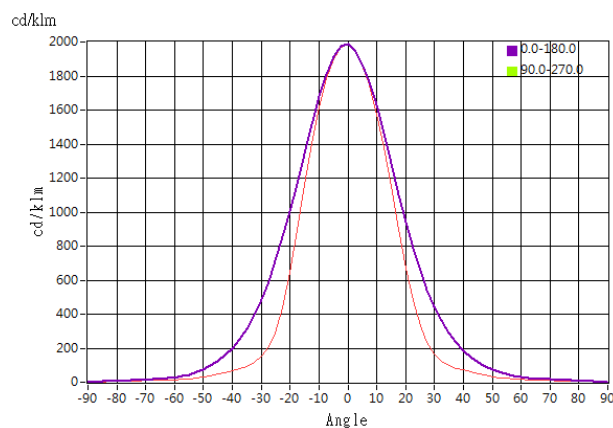




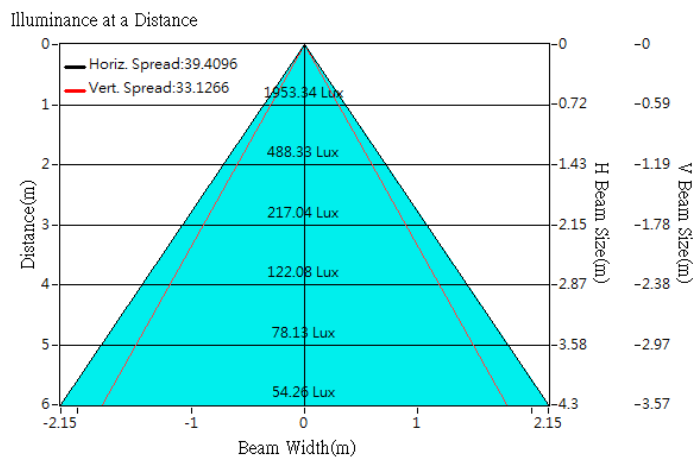
Optical Characteristics

Model Number	CKO-SA17-045021-1311		
LED	CXA1510		
LES / LED Size	Φ 9 mm		
FWHM (D50)	33°x39°		
Field Angle (D10)	57°x79°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	984 lm	Measured @ 9 W	
Material	PC / UL94V2		

cd/klm

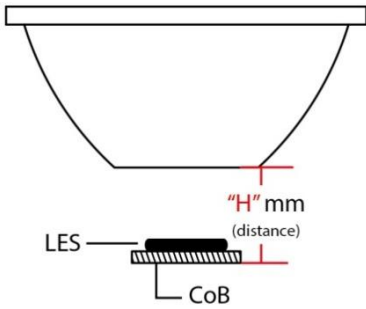


Illuminance At Distances

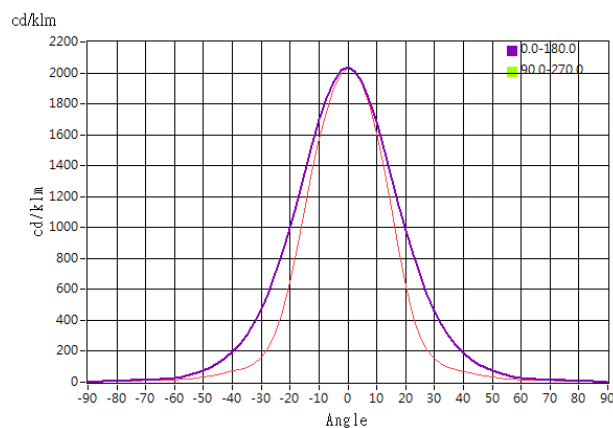




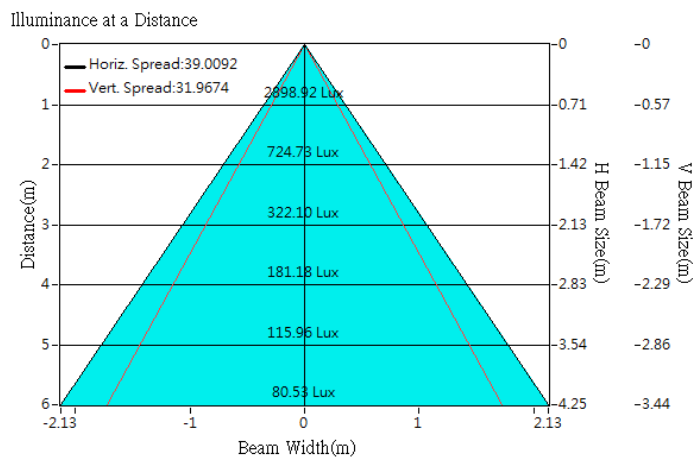
Optical Characteristics

Model Number		CKO-SA17-045021-1311		"H" definition
LED		CXA1512		
LES / LED Size		Φ 9 mm		
FWHM (D50)		32°x39°		
Field Angle (D10)		56°x79°		
H (distance)		2.5mm		
Dimension		Φ =45 mm, Thickness=20.9 mm		
Luminous Flux		1422 lm	Measured @ 13.3 W	
Material		PC / UL94V2		

cd/klm

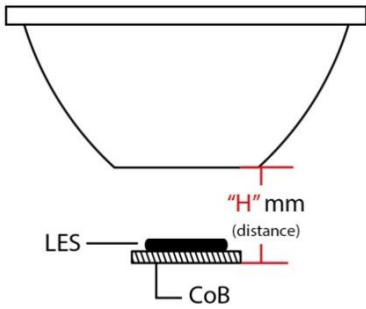


Illuminance At Distances

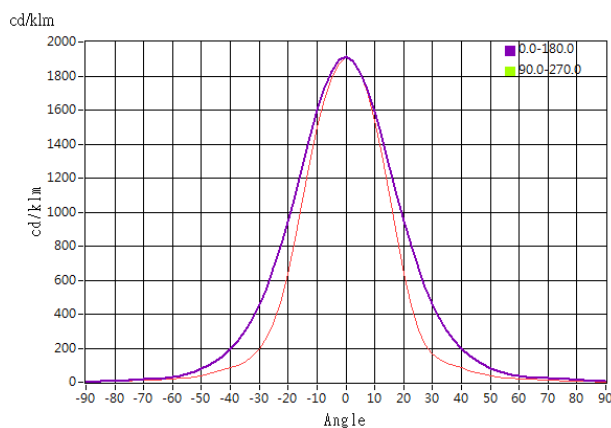




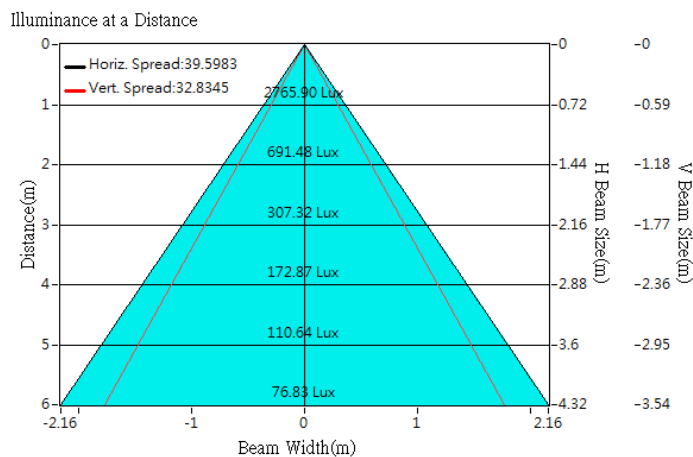
Optical Characteristics

Model Number		CKO-SA17-045021-1311	"H" definition
LED	CXB1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	33°x40°		
Field Angle (D10)	59°x80°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1446 lm	Measured @ 12 W	
Material	PC / UL94V2		

cd/klm

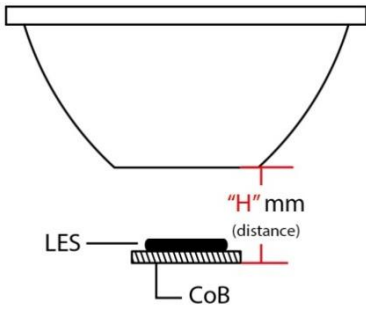


Illuminance At Distances

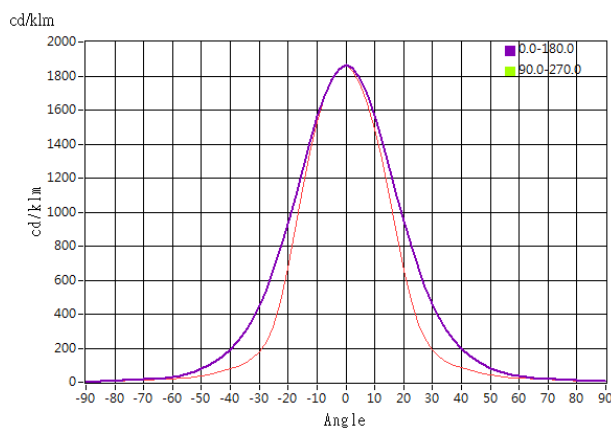




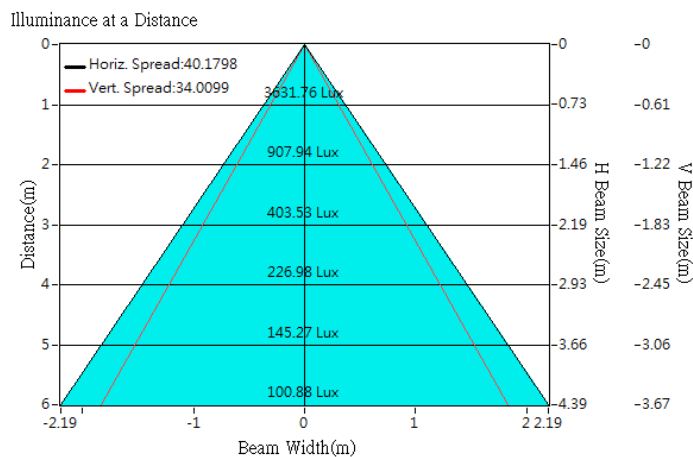
Optical Characteristics

Model Number	CKO-SA17-045021-1311		
LED	CMA1516		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°x40°		
Field Angle (D10)	60°x81°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1950 lm	Measured @ 15.9 W	
Material	PC / UL94V2		

cd/klm

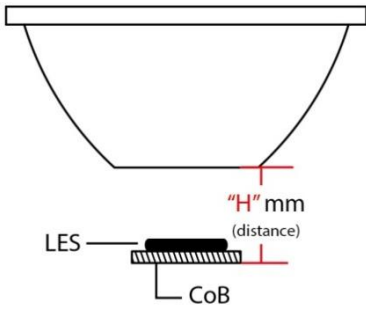


Illuminance At Distances

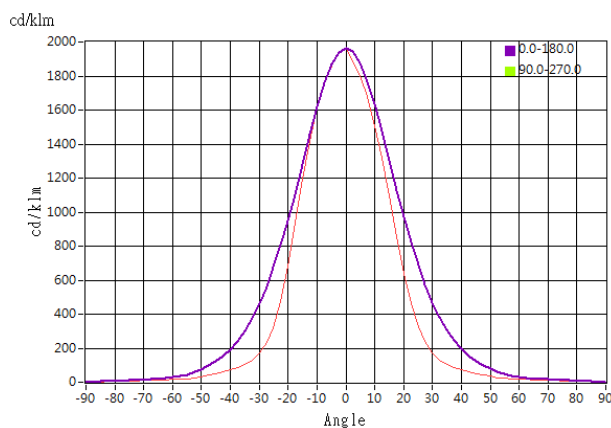




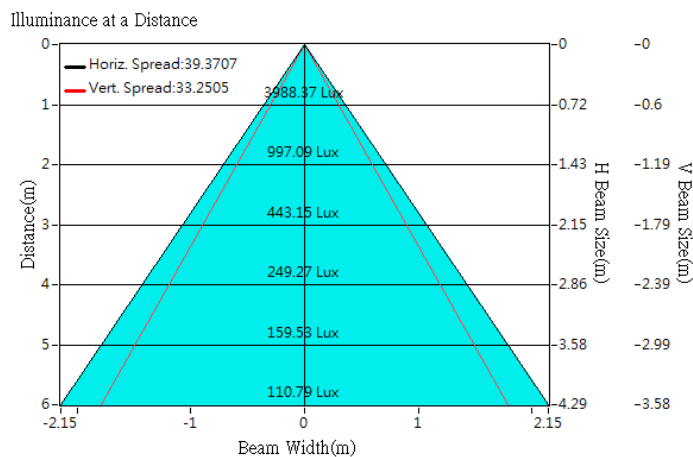
Optical Characteristics

Model Number	CKO-SA17-045021-1311		“H” definition 
LED	CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	33°x39°		
Field Angle (D10)	58°x80°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2034 lm	Measured @ 16.8 W	
Material	PC / UL94V2		

cd/klm

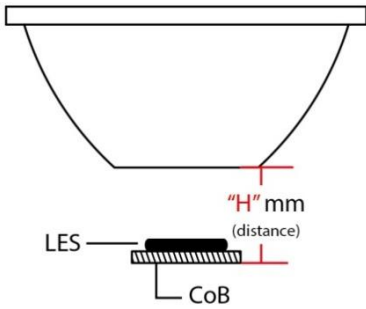


Illuminance At Distances

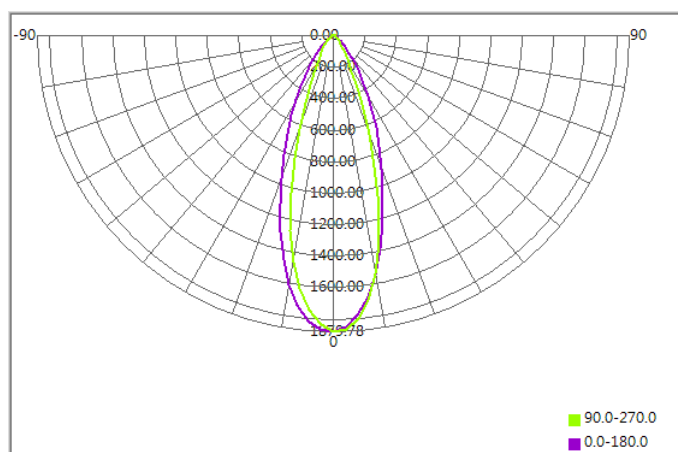




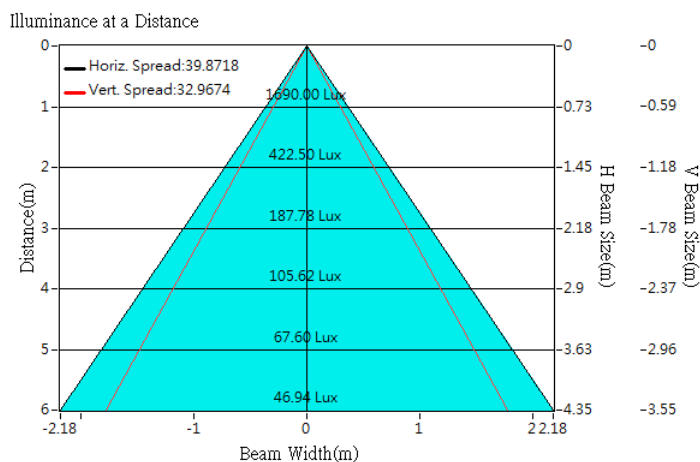
Optical Characteristics

Model Number	CKO-SA17-045021-1311		“H” definition 
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	33°x40°		
Field Angle (D10)	61°x81°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	899 lm	Measured @ 6.9 W	
Material	PC / UL94V2		

cd/klm

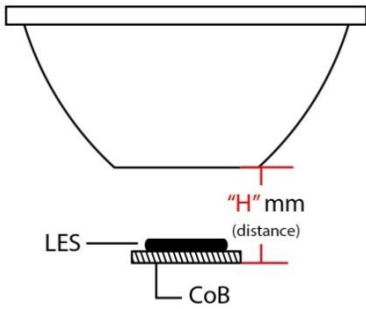


Illuminance At Distances

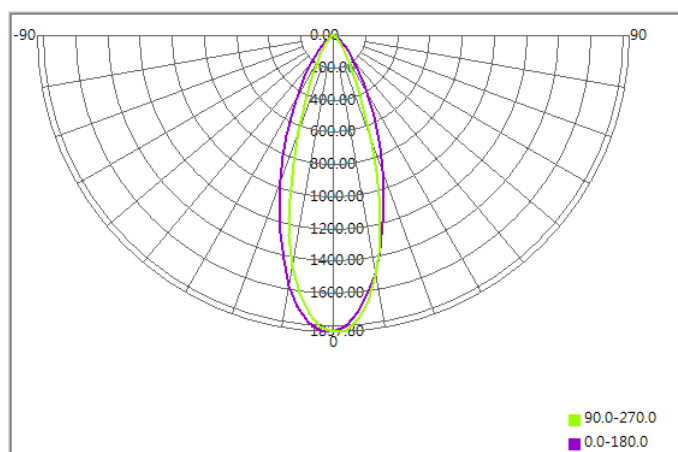




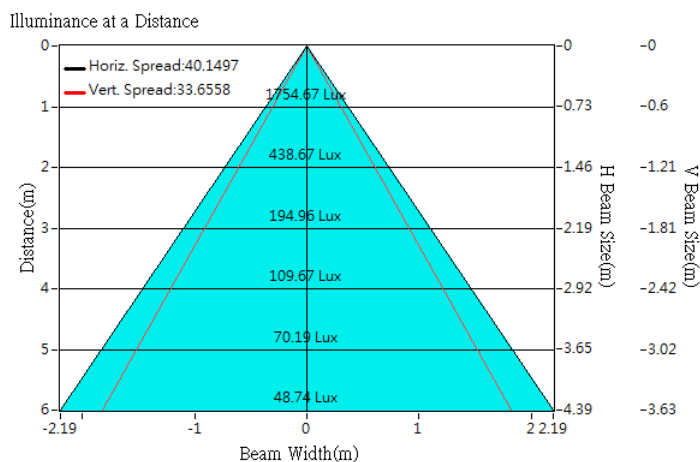
Optical Characteristics

Model Number	CKO-SA17-045021-1311		
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	34°x40°		
Field Angle (D10)	63°x81°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	954 lm	Measured @ 6.6 W	
Material	PC / UL94V2		

cd/klm

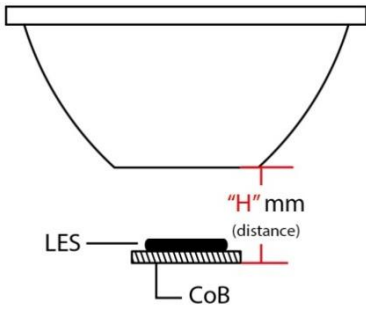


Illuminance At Distances

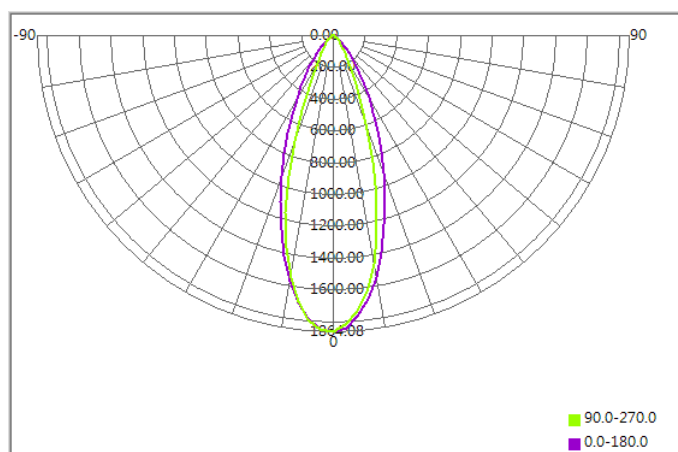




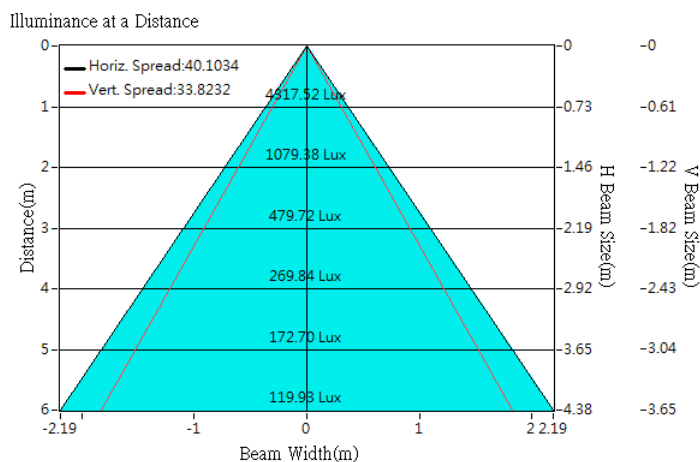
Optical Characteristics

Model Number	CKO-SA17-045021-1311		
LED	CMT1420		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	34°x40°		
Field Angle (D10)	62°x81°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2316 lm	Measured @ 19 W	
Material	PC / UL94V2		

cd/klm

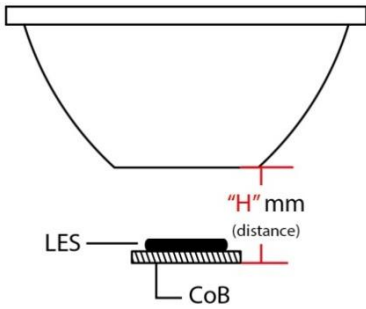


Illuminance At Distances

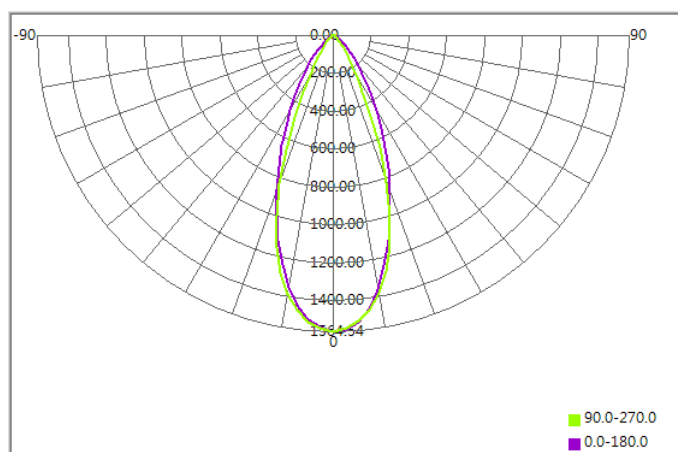




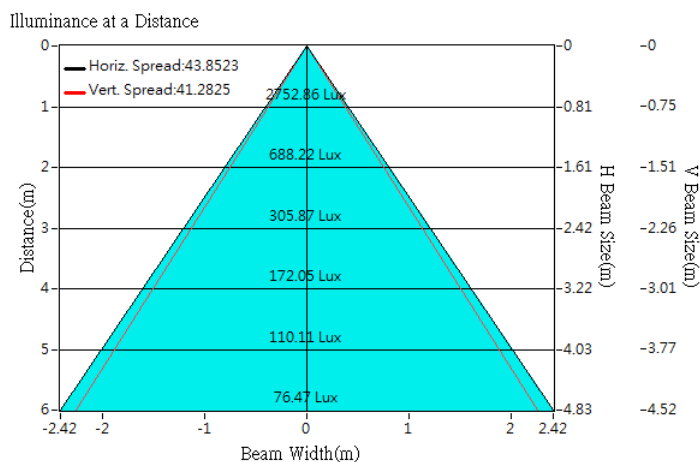
Optical Characteristics

Model Number	CKO-SA17-045021-1311		“H” definition 
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	41°x44°		
Field Angle (D10)	69°x86°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1759 lm	Measured @ 15.9 W	
Material	PC / UL94V2		

cd/klm

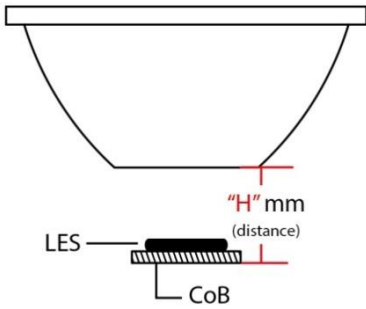


Illuminance At Distances

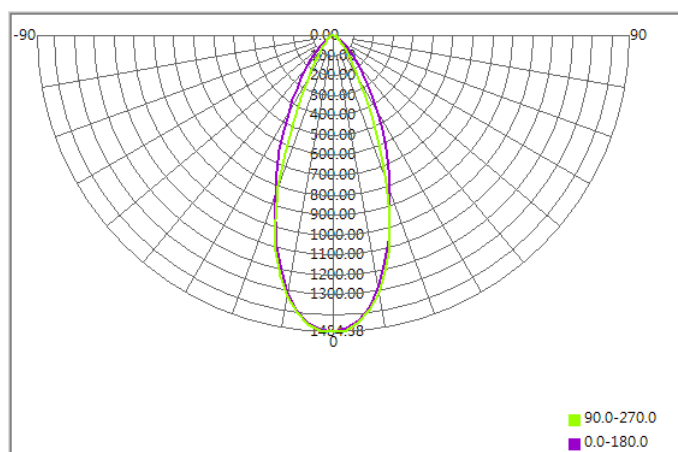




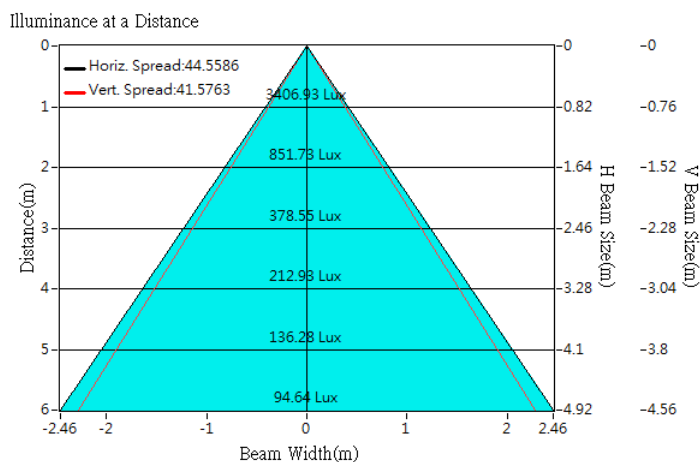
Optical Characteristics

Model Number	CKO-SA17-045021-1311		
LED	CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	42°x45°		
Field Angle (D10)	72°x88°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2295 lm	Measured @ 19.7 W	
Material	PC / UL94V2		

cd/klm

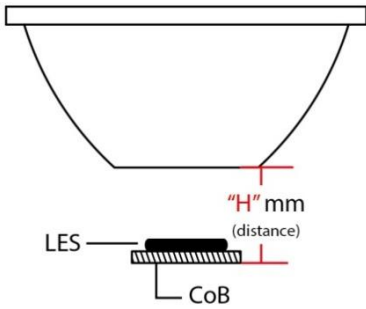


Illuminance At Distances

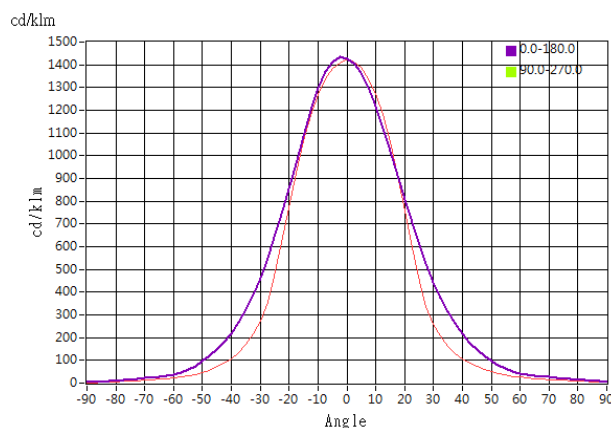




Optical Characteristics

Model Number	CKO-SA17-045021-1311		
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	42°x45°		
Field Angle (D10)	74°x91°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2960 lm	Measured @ 25.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

