



Product Model Number

CKO-CS17-045021-1301

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

(A)

(B)

(C)

(D)

(E)

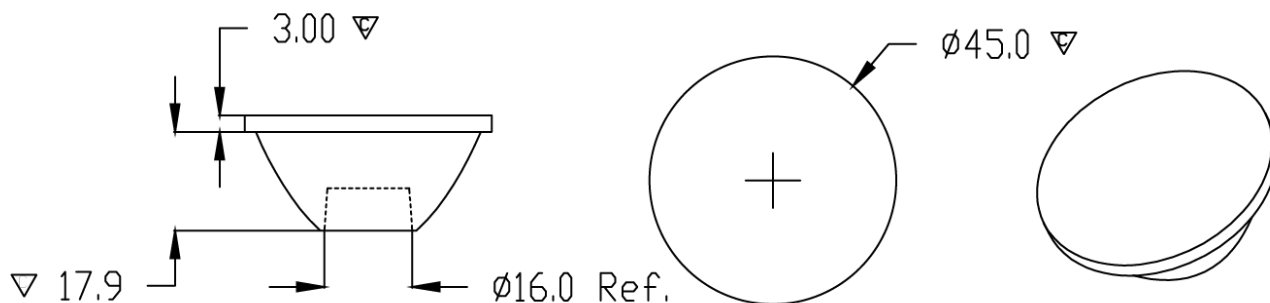


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ45 x 20.9



▽:Critical Dimension

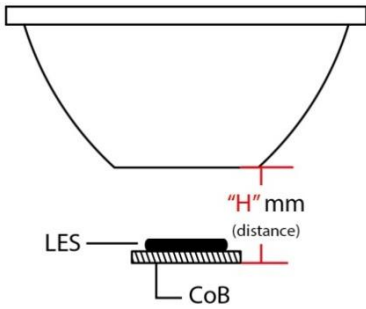


✓ Optical Characteristics – Angle Performances

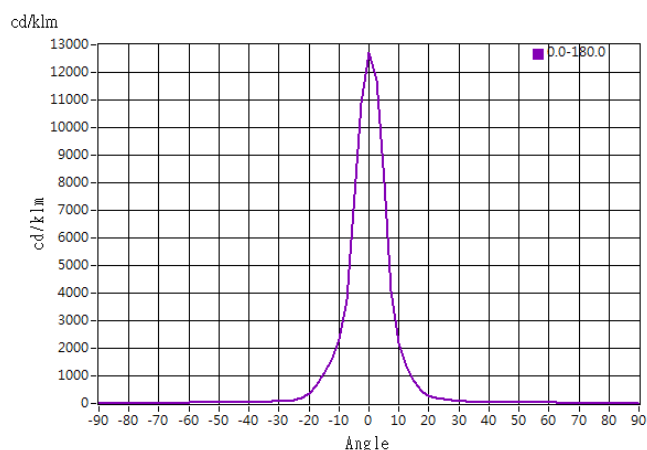
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CMA1303	Φ4.5	11°	27°
CXA1304	Φ6	13°	32°
CXB1304	Φ6	14°	31°
CMA1306	Φ6	14°	32°
CXB1310	Φ6	14°	34°
CXA1507	Φ9	19°	43°
CXB1507	Φ9	19°	44°
CXA1510	Φ9	20°	43°
CXA1512	Φ9	19°	43°
CXB1512	Φ9	20°	43°
CMA1516	Φ9	22°	44°
CXB1520	Φ9	21°	44°
CMT1407	Φ9.8	21°	46°
CMT1412	Φ9.8	21°	46°
CMT1420	Φ9.8	21°	46°
CXA1816	Φ12	26°	52°
CXB1816	Φ12	28°	57°
CXA1820	Φ12	28°	57°
CXB1820	Φ12	28°	55°
CMA1825	Φ12	28°	56°



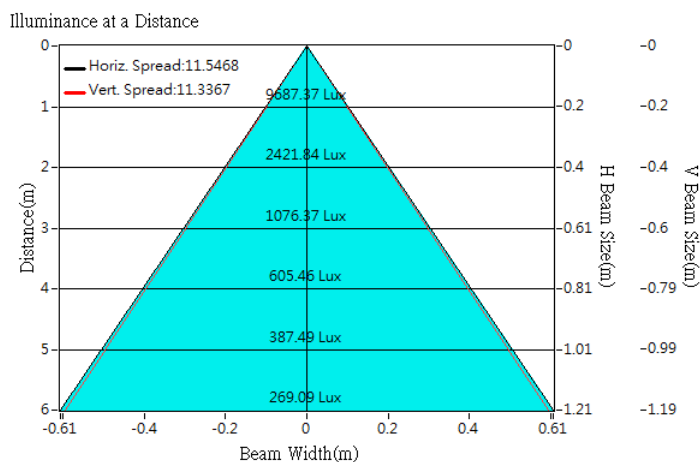
Optical Characteristics

Model Number	CKO-CS17-045021-1301		"H" definition
LED	CMA1303		
LES / LED Size	Φ 4.5 mm		
FWHM (D50)	11°		
Field Angle (D10)	27°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	760 lm	Measured @ 6.7 W	
Material	PC / UL94V2		

cd/klm

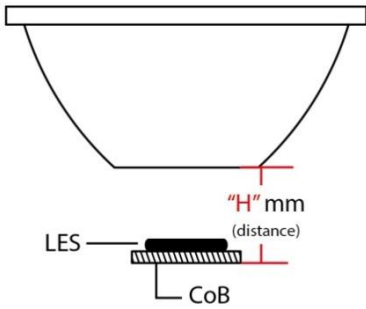


Illuminance At Distances

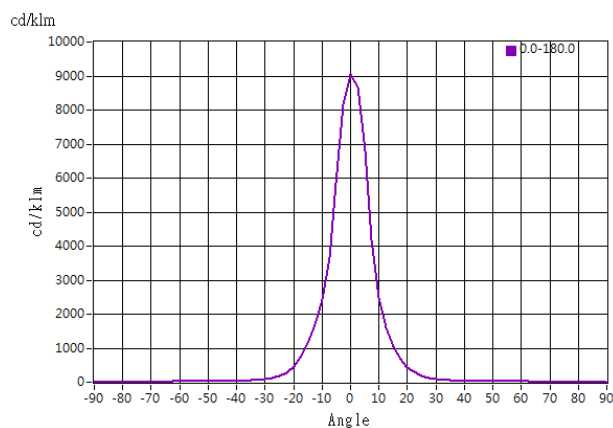




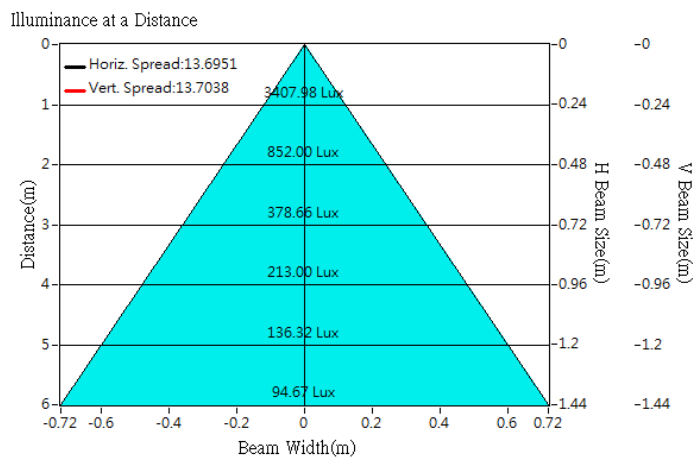
Optical Characteristics

Model Number		CKO-CS17-045021-1301	"H" definition
LED	CXA1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	13°		
Field Angle (D10)	32°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	377 lm	Measured @ 3.7 W	
Material	PC / UL94V2		

cd/klm

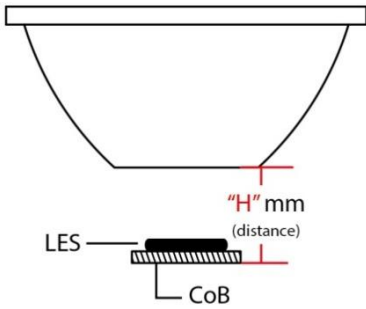


Illuminance At Distances

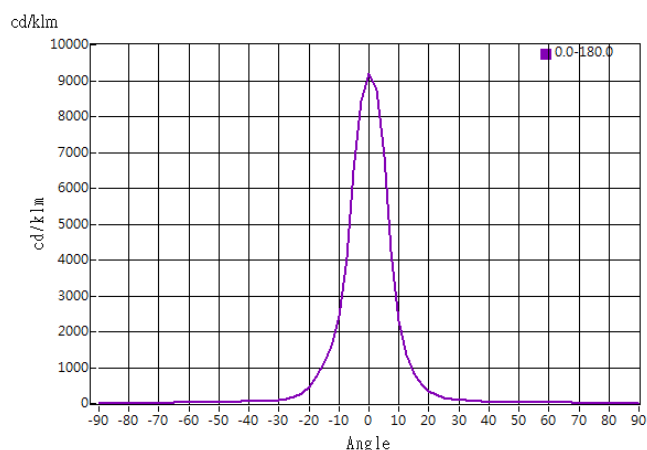




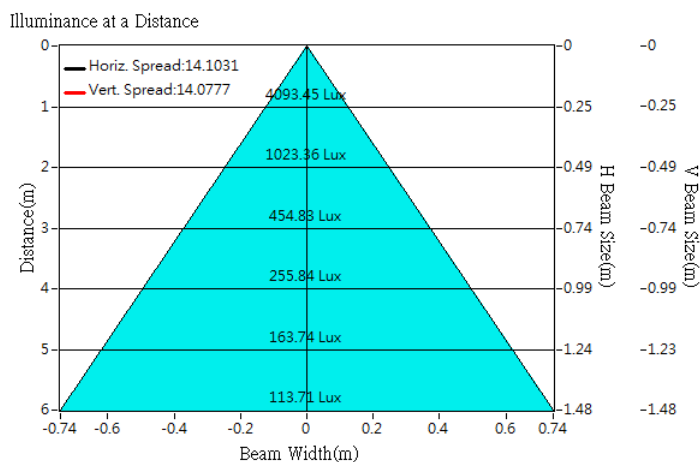
Optical Characteristics

Model Number		CKO-CS17-045021-1301	"H" definition
LED	CXB1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	14°		
Field Angle (D10)	31°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	444 lm	Measured @ 3.4 W	
Material	PC / UL94V2		

cd/klm

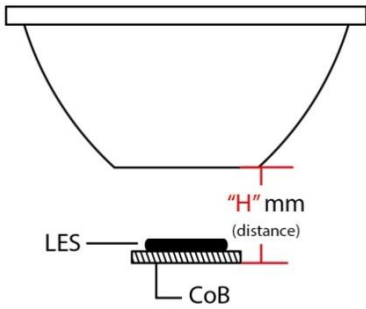


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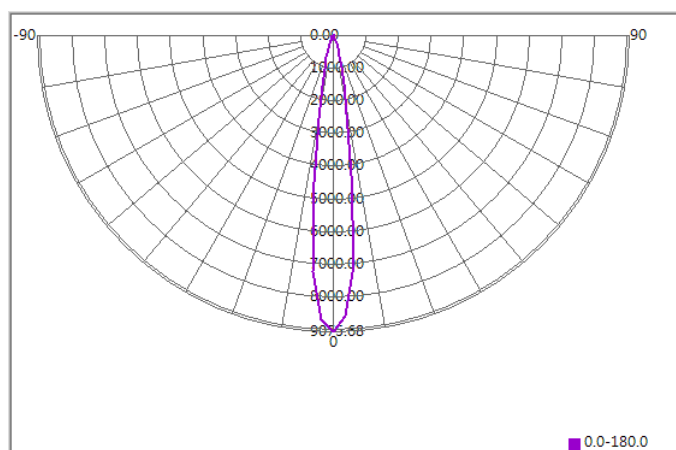




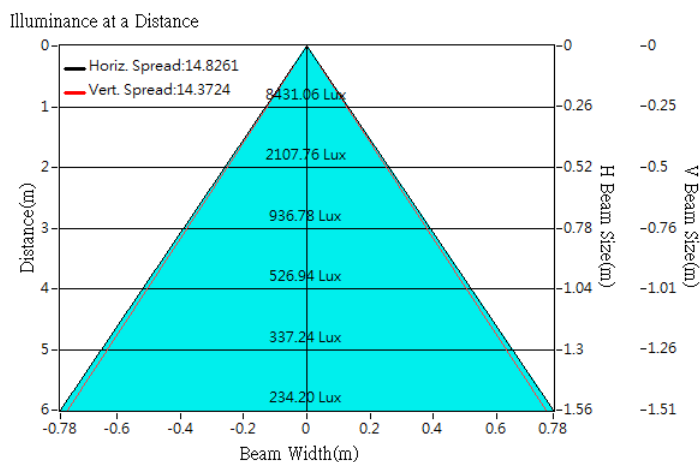
Optical Characteristics

Model Number		CKO-CS17-045021-1301	"H" definition
LED	CMA1306		
LES / LED Size	Φ 6 mm		
FWHM (D50)	14°		
Field Angle (D10)	32°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	928 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

cd/klm

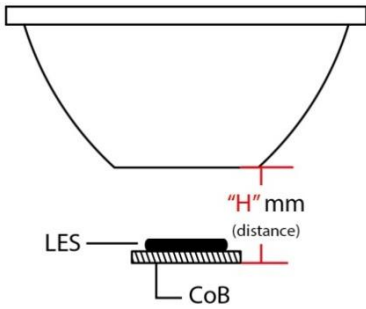


Illuminance At Distances

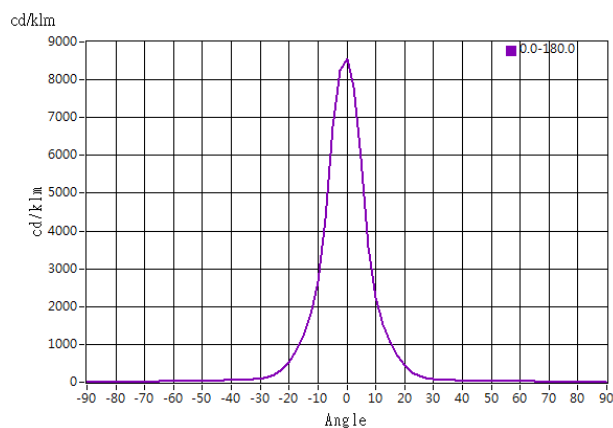




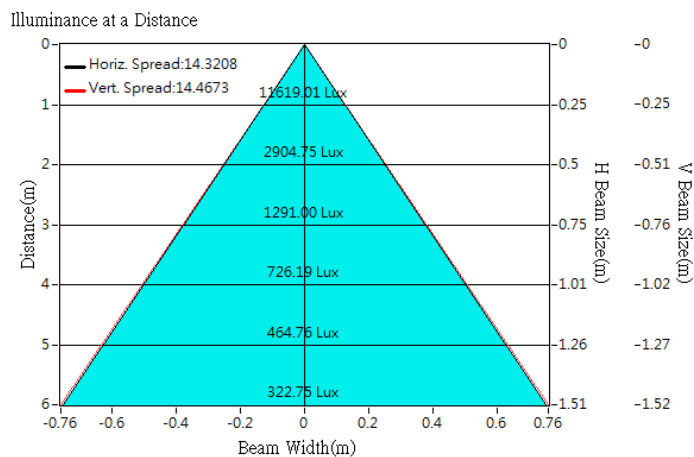
Optical Characteristics

Model Number	CKO-CS17-045021-1301		“H” definition 
LED	CXB1310		
LES / LED Size	Φ 6 mm		
FWHM (D50)	14°		
Field Angle (D10)	34°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1359 lm	Measured @ 12.4 W	
Material	PC / UL94V2		

cd/klm

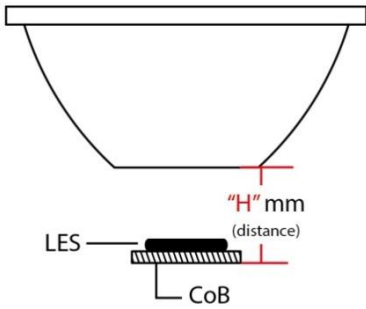


Illuminance At Distances

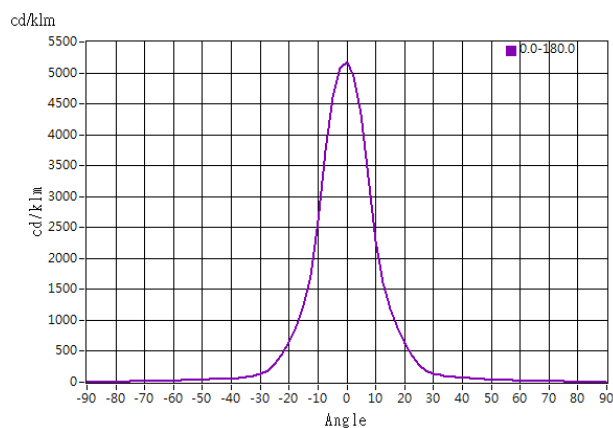




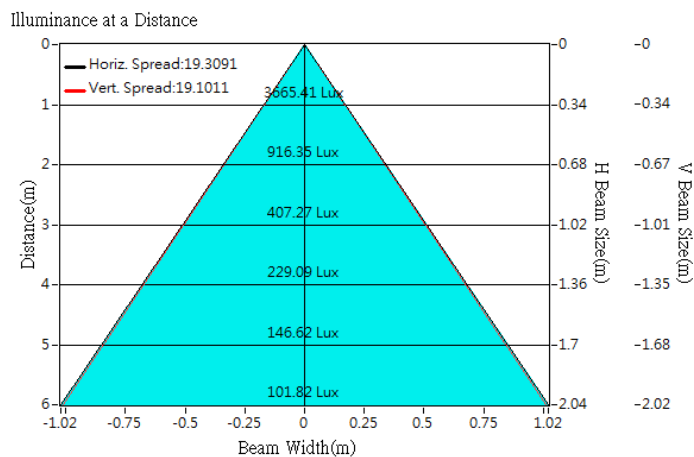
Optical Characteristics

Model Number		CKO-CS17-045021-1301	"H" definition
LED	CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°		
Field Angle (D10)	43°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	709 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

cd/klm

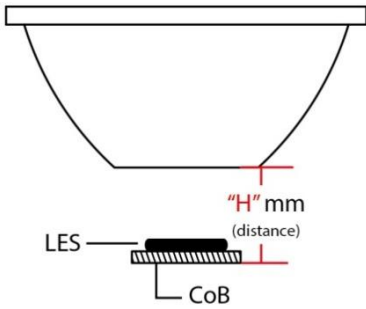


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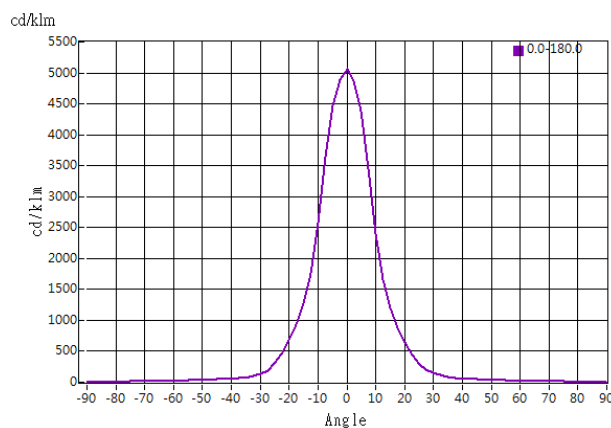




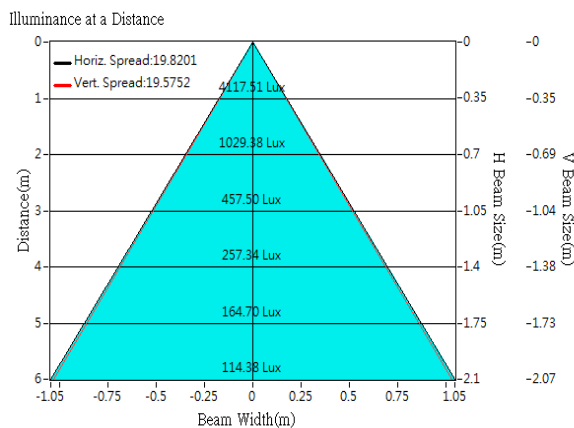
Optical Characteristics

Model Number		CKO-CS17-045021-1301	"H" definition
LED	CXB1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°		
Field Angle (D10)	44°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	814 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

cd/klm

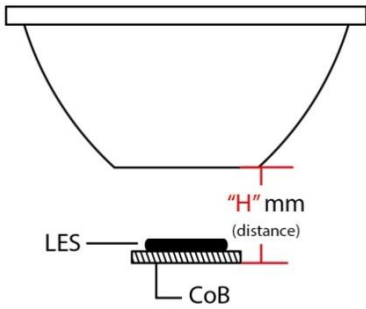


Illuminance At Distances

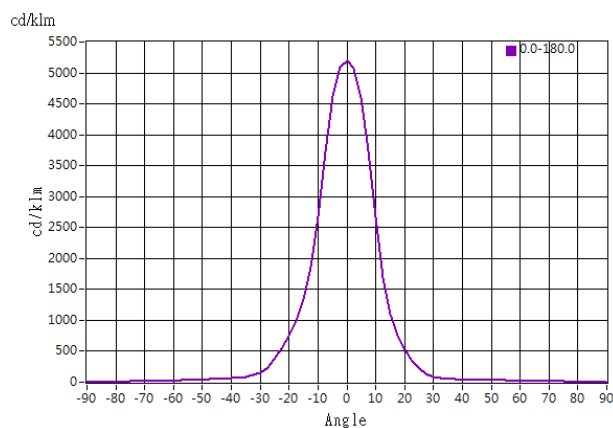




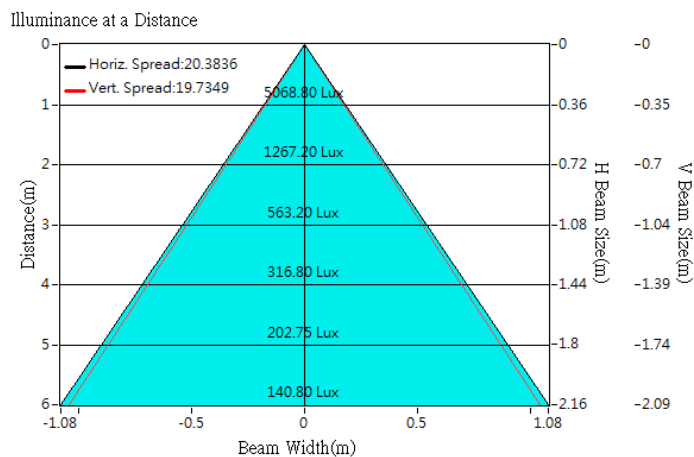
Optical Characteristics

Model Number		CKO-CS17-045021-1301	"H" definition
LED	CXA1510		
LES / LED Size	Φ 9 mm		
FWHM (D50)	20°		
Field Angle (D10)	43°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	975 lm	Measured @ 9.0 W	
Material	PC / UL94V2		

cd/klm

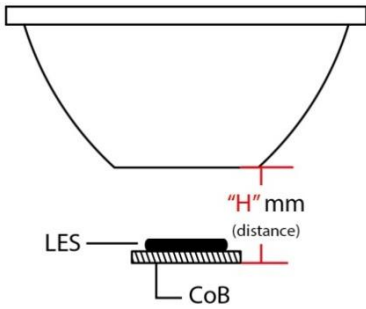


Illuminance At Distances

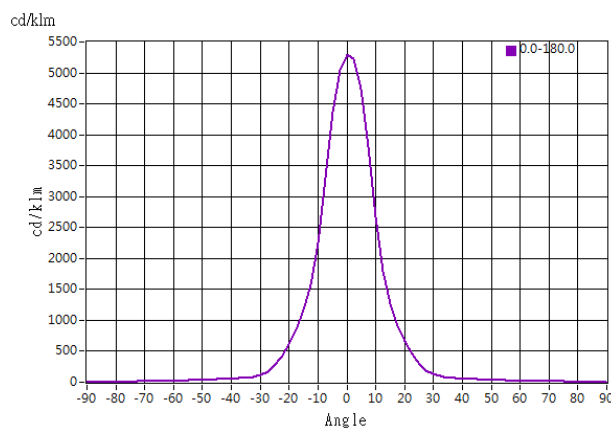




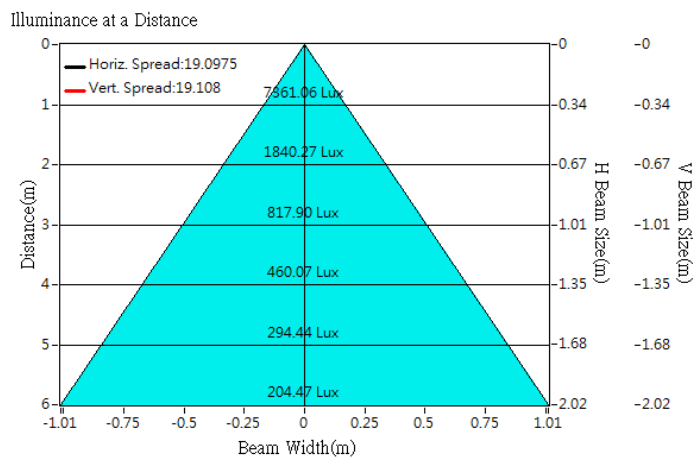
Optical Characteristics

Model Number	CKO-CS17-045021-1301		"H" definition 
LED	CXA1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°		
Field Angle (D10)	43°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1388 lm	Measured @ 13.3 W	
Material	PC / UL94V2		

cd/klm

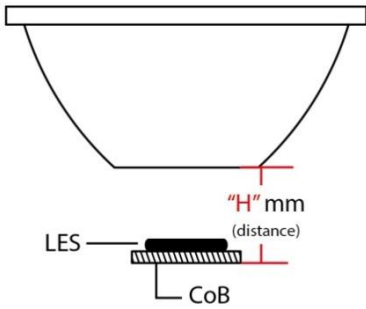


Illuminance At Distances

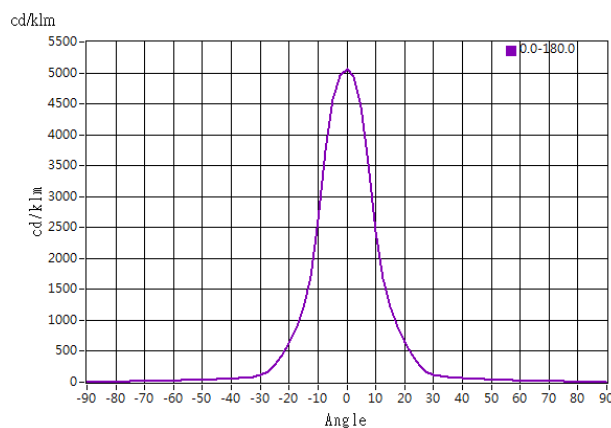




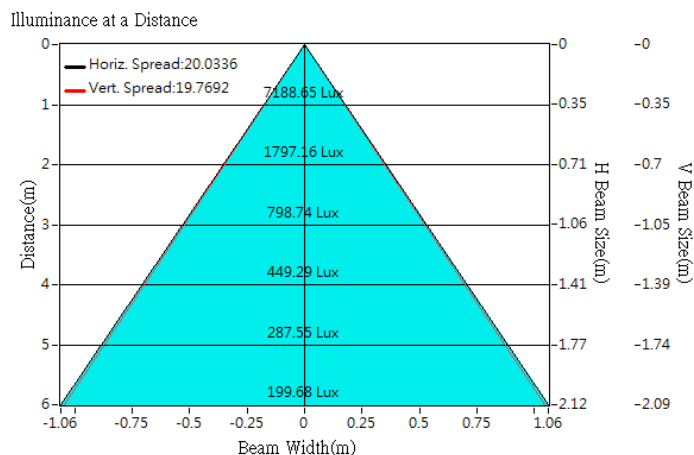
Optical Characteristics

Model Number	CKO-CS17-045021-1301		"H" definition 
LED	CXB1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	20°		
Field Angle (D10)	43°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1419 lm	Measured @ 12.0 W	
Material	PC / UL94V2		

cd/klm

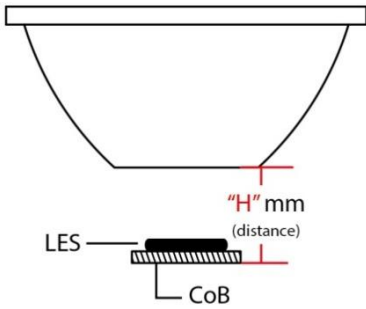


Illuminance At Distances

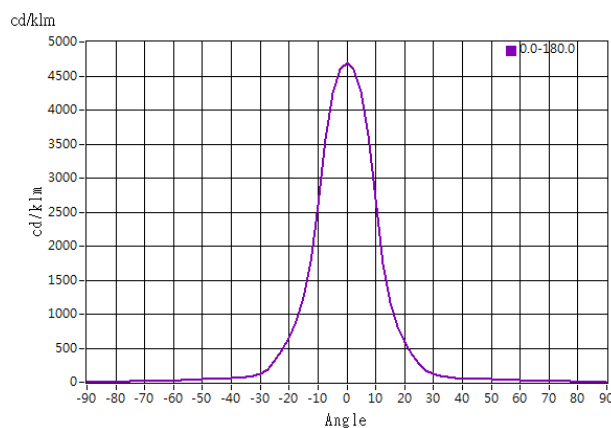




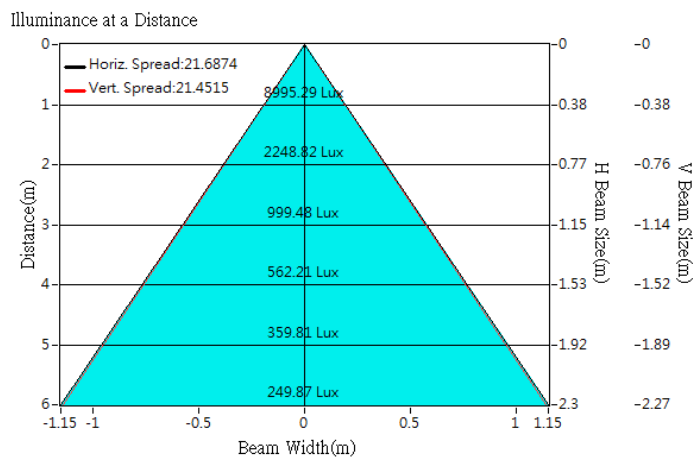
Optical Characteristics

Model Number	CKO-CS17-045021-1301		"H" definition 
LED	CMA1516		
LES / LED Size	Φ 9 mm		
FWHM (D50)	22°		
Field Angle (D10)	44°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1919 lm	Measured @ 15.9 W	
Material	PC / UL94V2		

cd/klm

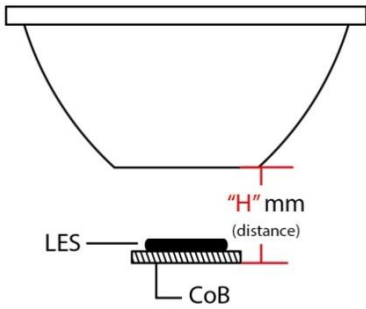


Illuminance At Distances

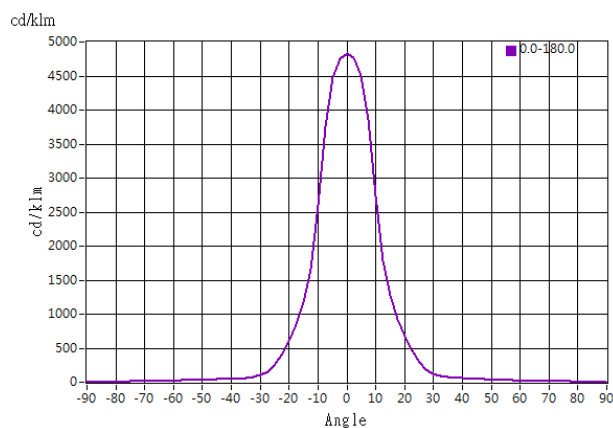




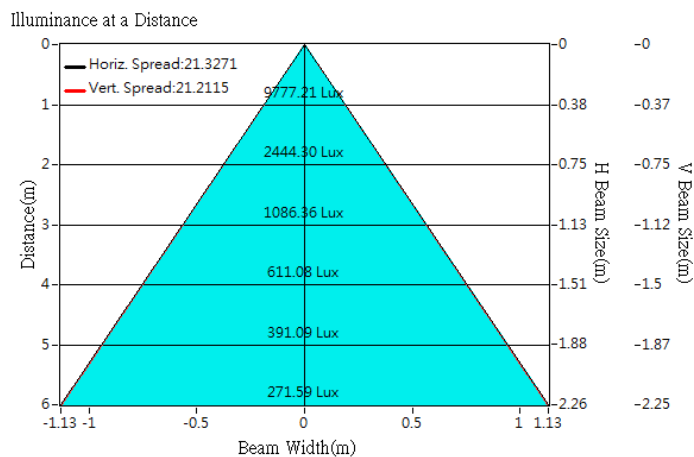
Optical Characteristics

Model Number	CKO-CS17-045021-1301		"H" definition 
LED	CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	21°		
Field Angle (D10)	44°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2021 lm	Measured @ 16.9 W	
Material	PC / UL94V2		

cd/klm

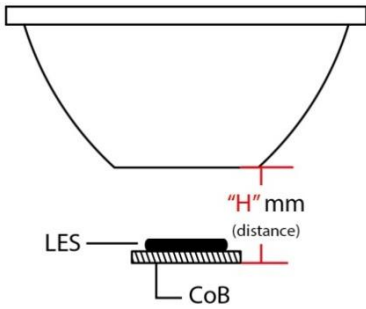


Illuminance At Distances

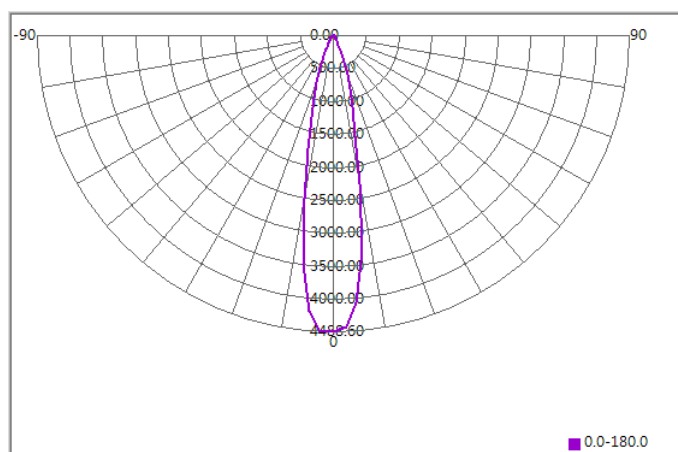




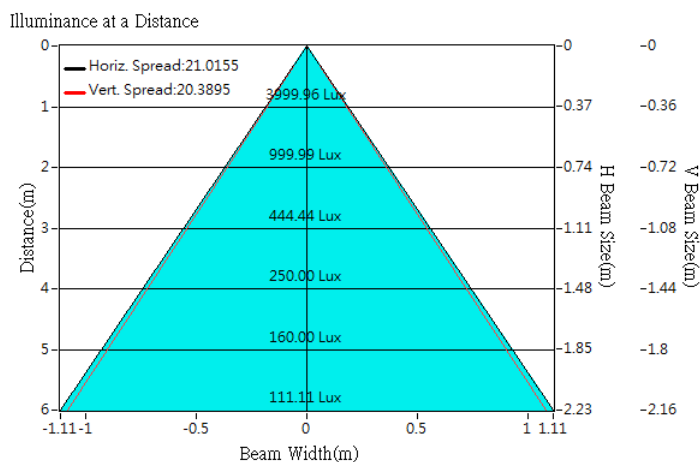
Optical Characteristics

Model Number	CKO-CS17-045021-1301		
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	46°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	891 lm	Measured @ 6.9 W	
Material	PC / UL94V2		

cd/klm

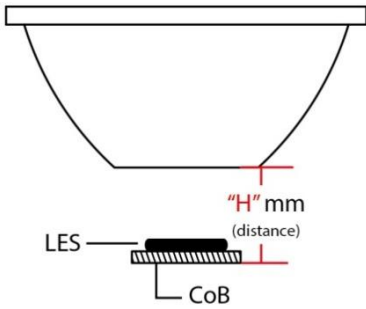


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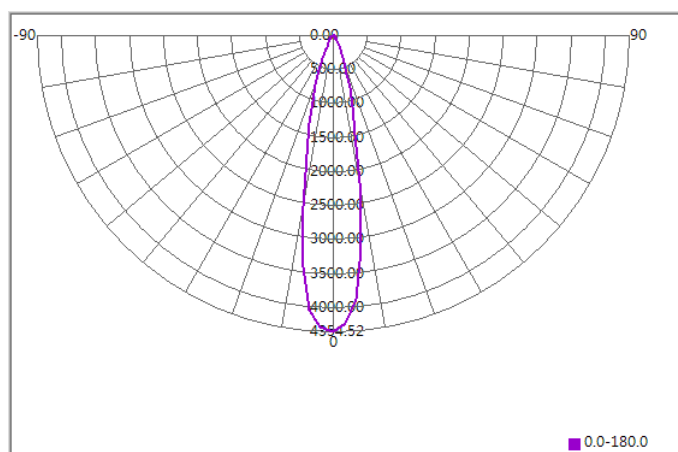




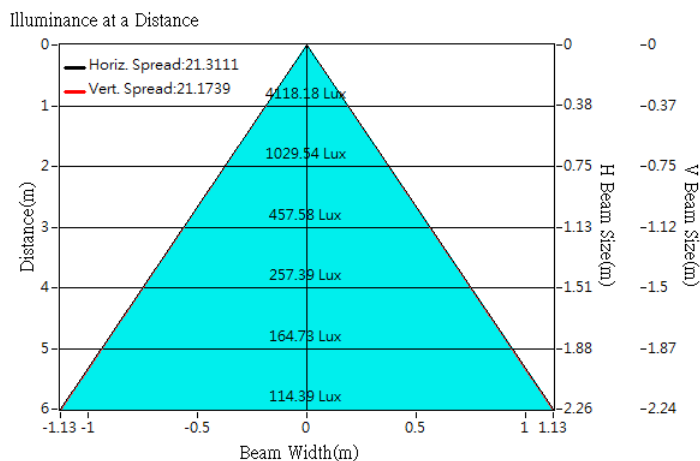
Optical Characteristics

Model Number		CKO-CS17-045021-1301	"H" definition
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	46°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	945 lm	Measured @ 6.6 W	
Material	PC / UL94V2		

cd/klm

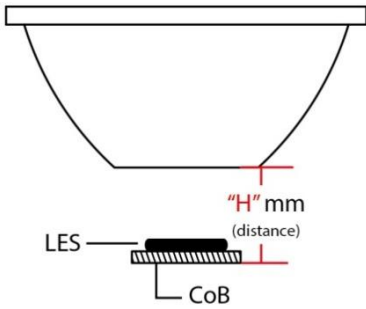


Illuminance At Distances

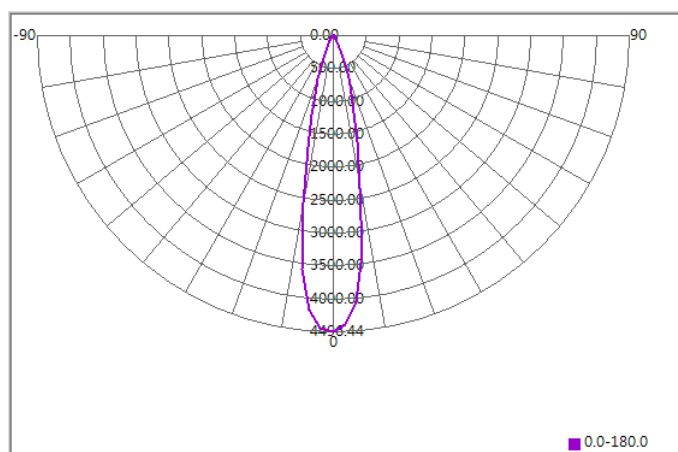




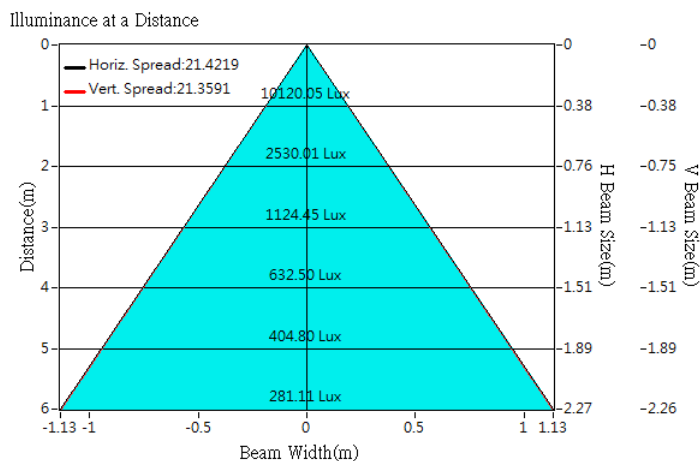
Optical Characteristics

Model Number	CKO-CS17-045021-1301		"H" definition 
LED	CMT1420		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	46°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2250 lm	Measured @ 19 W	
Material	PC / UL94V2		

cd/klm

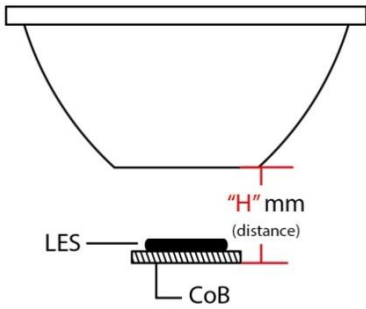


Illuminance At Distances

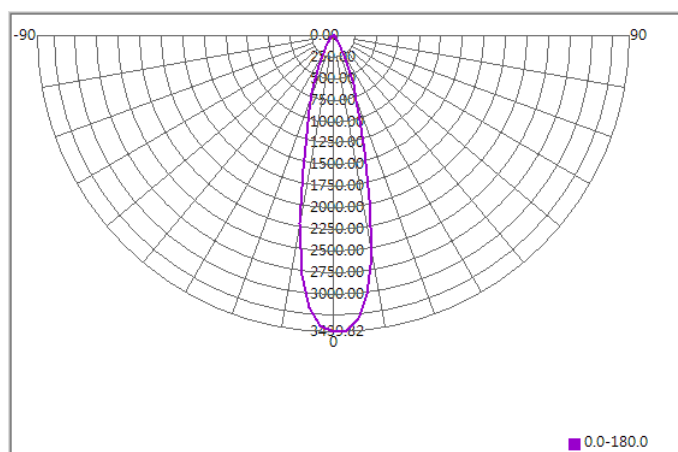




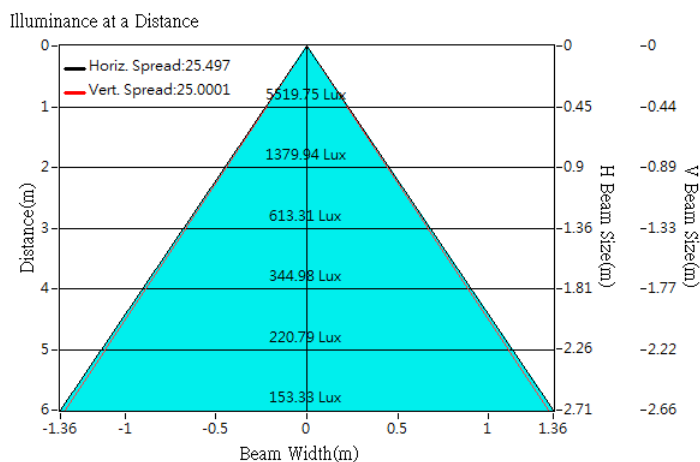
Optical Characteristics

Model Number	CKO-CS17-045021-1301		
LED	CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	26°		
Field Angle (D10)	52°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1604 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

cd/klm

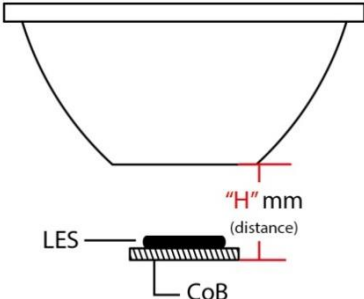


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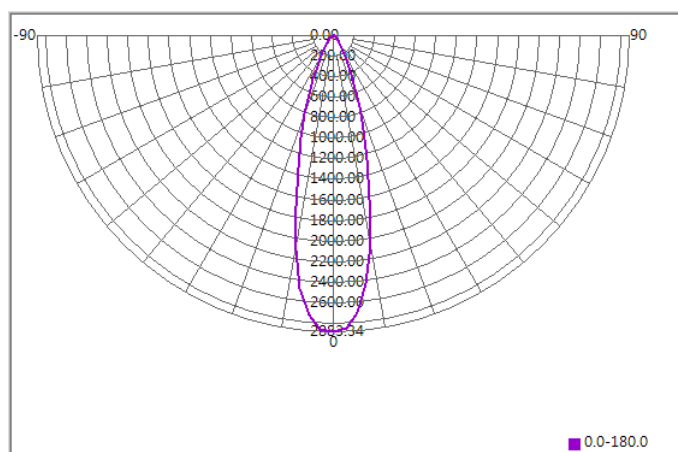




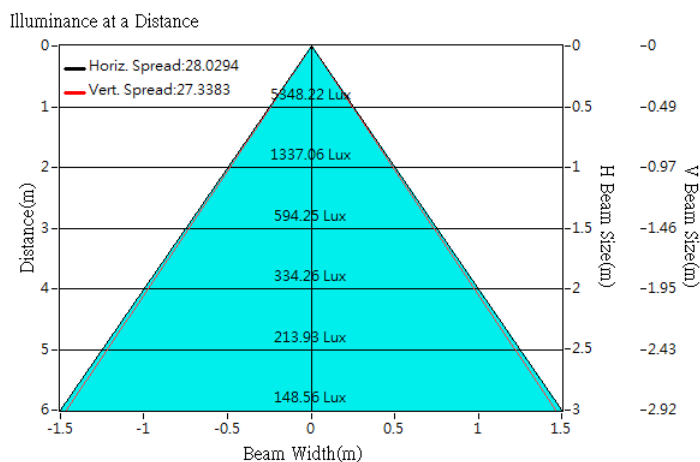
Optical Characteristics

Model Number	CKO-CS17-045021-1301		
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	28°		
Field Angle (D10)	57°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1854 lm	Measured @ 15.7 W	
Material	PC / UL94V2		

cd/klm

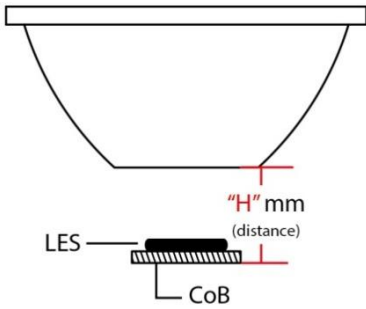


Illuminance At Distances

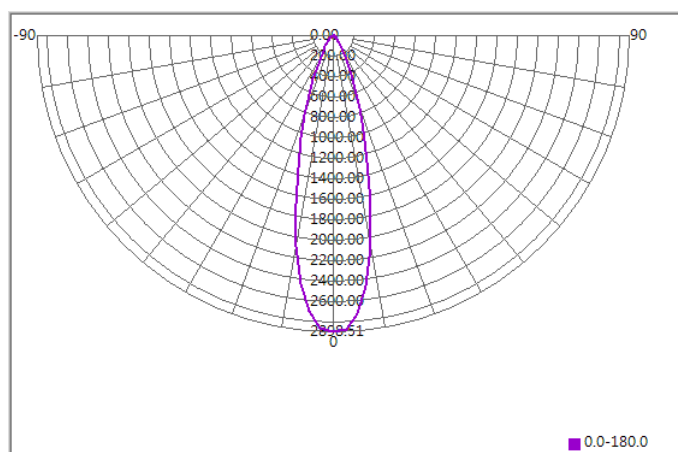




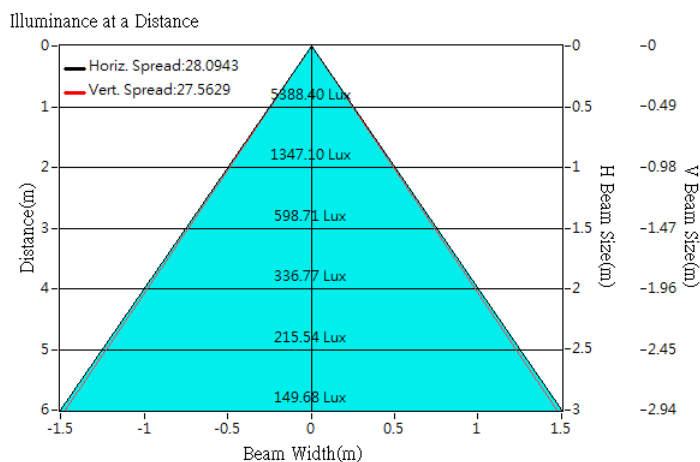
Optical Characteristics

Model Number	CKO-CS17-045021-1301		“H” definition 
LED	CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	28°		
Field Angle (D10)	57°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1853 lm	Measured @ 19.7 W	
Material	PC / UL94V2		

cd/klm

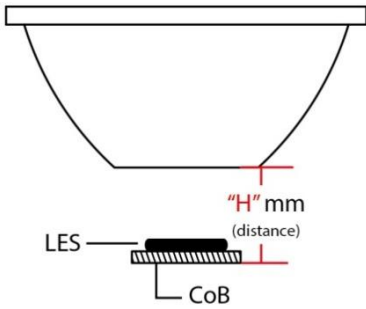


Illuminance At Distances

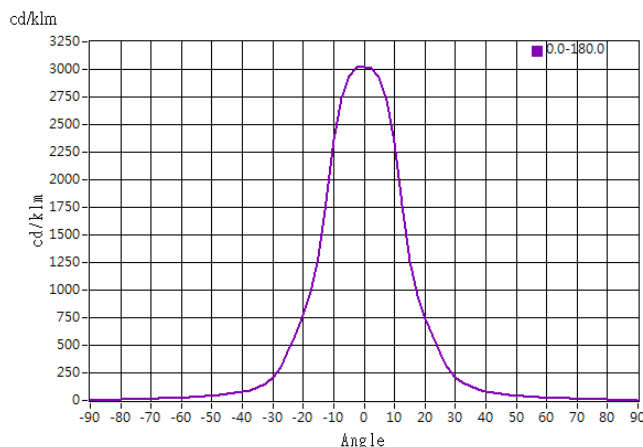




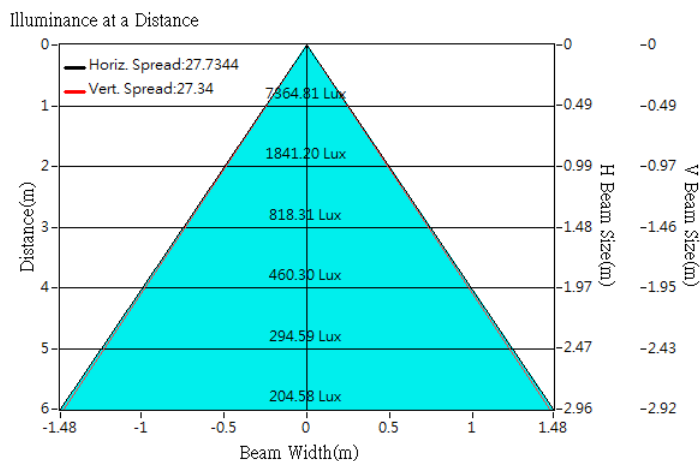
Optical Characteristics

Model Number	CKO-CS17-045021-1301		“H” definition 
LED	CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	28°		
Field Angle (D10)	55°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2442 lm	Measured @ 19.4 W	
Material	PC / UL94V2		

cd/klm

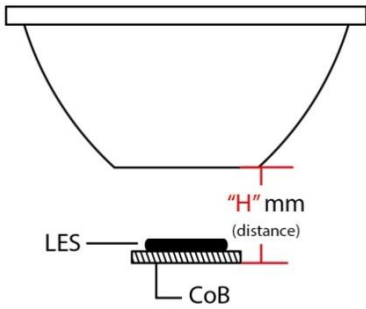


Illuminance At Distances

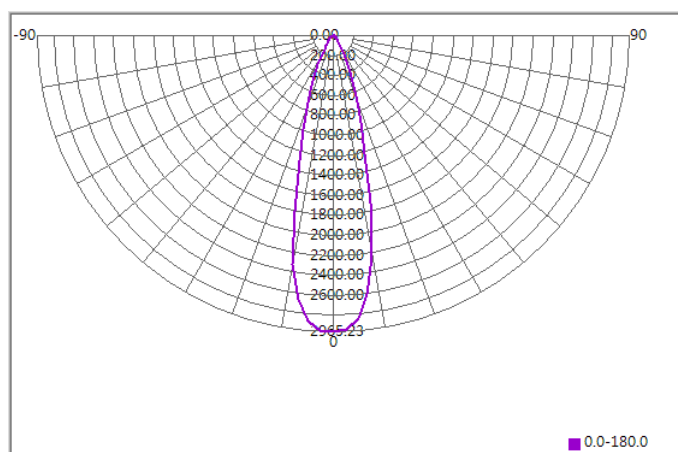




Optical Characteristics

Model Number	CKO-CS17-045021-1301		
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	28°		
Field Angle (D10)	56°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2994 lm	Measured @ 25.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

