



Product Model Number

CKO-CS17-045021-1304

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

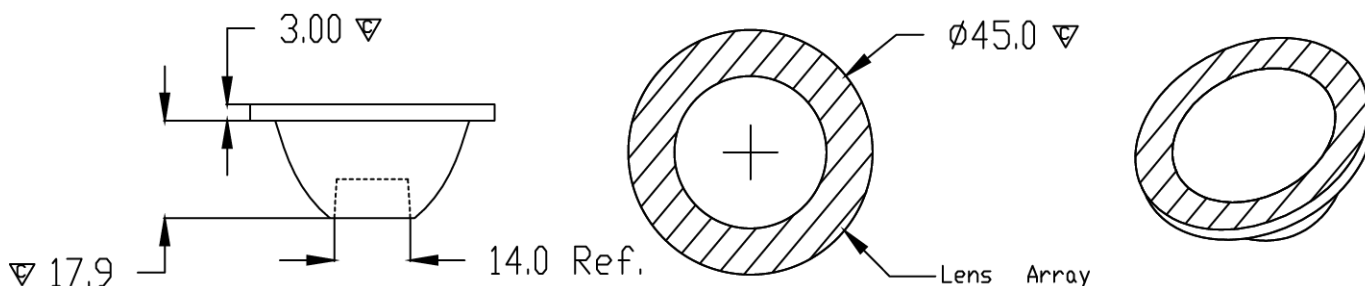


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- C. Identity Code
- D. Lens / Fixture Size
Ex: 075026=Φ75mm / Thickness=26mm (round up)
- E. 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

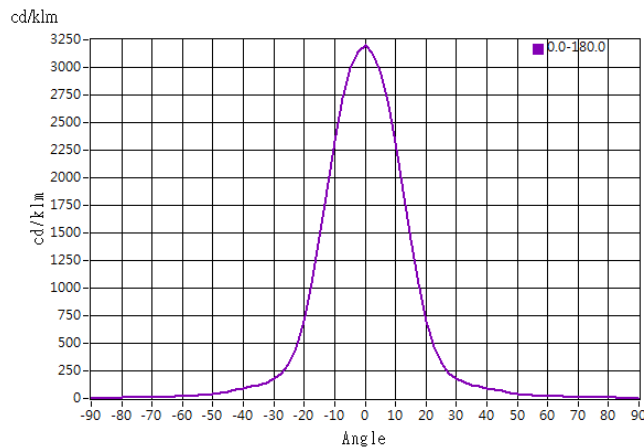
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CMA1303	Φ4.5	28°	50°
CXA1304	Φ6	28°	46°
CXB1304	Φ6	31°	53°
CMA1306	Φ6	31°	53°
CXB1310	Φ6	29°	48°
CXA1507	Φ9	33°	56°
CXB1507	Φ9	34°	55°
CXA1510	Φ9	34°	55°
CXA1512	Φ9	35°	60°
CXB1512	Φ9	36°	61°
CMA1516	Φ9	36°	59°
CXB1520	Φ9	37°	62°
CMT1407	Φ9.8	34°	58°
CMT1412	Φ9.8	37°	67°
CMT1420	Φ9.8	35°	59°
CXA1816	Φ12	42°	71°
CXB1816	Φ12	43°	74°
CXA1820	Φ12	43°	73°
CXB1820	Φ12	44°	77°
CMA1825	Φ12	44°	77°
CXA1850	Φ12	42°	75°



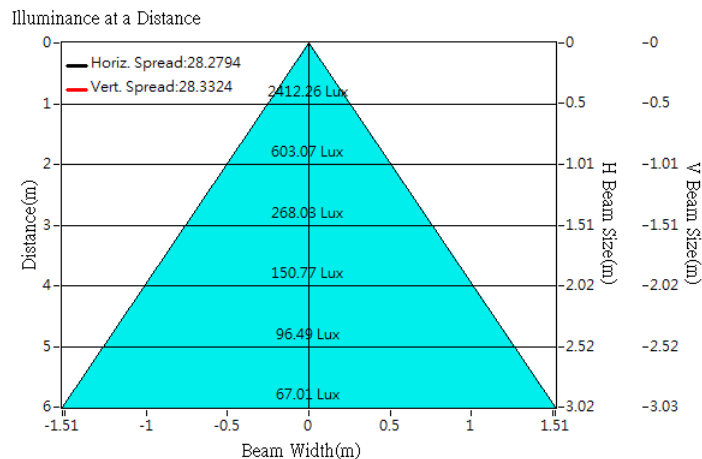
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p>
LED	CMA1303		
LES / LED Size	Φ 4.5 mm		
FWHM (D50)	28°		
Field Angle (D10)	50°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	754 lm	Measured @ 6.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

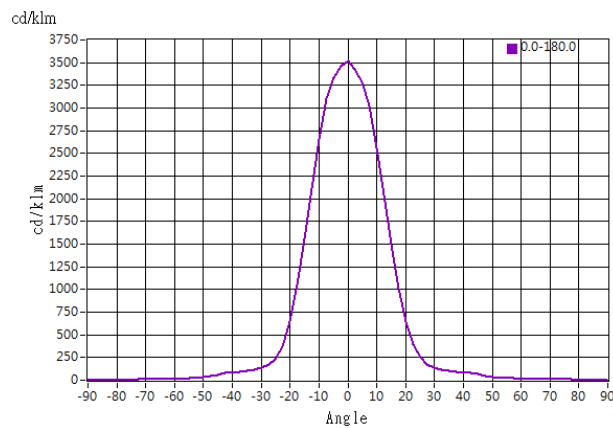




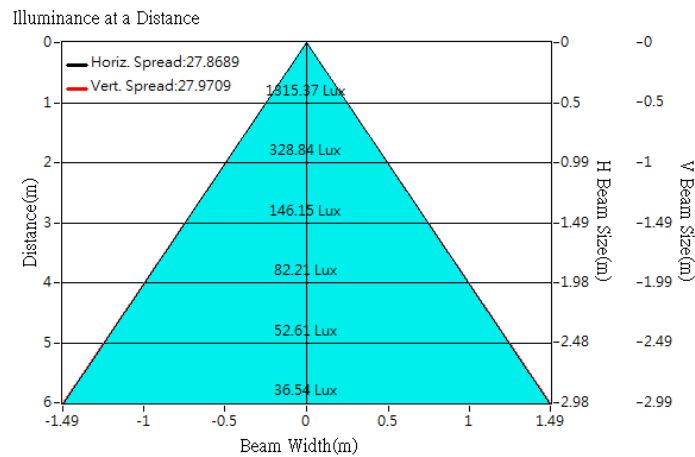
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p>
LED	CXA1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	28°		
Field Angle (D10)	46°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	374 lm	Measured @ 3.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

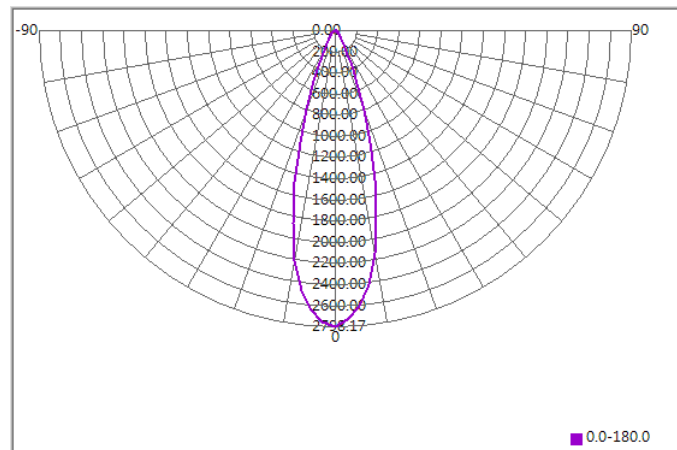




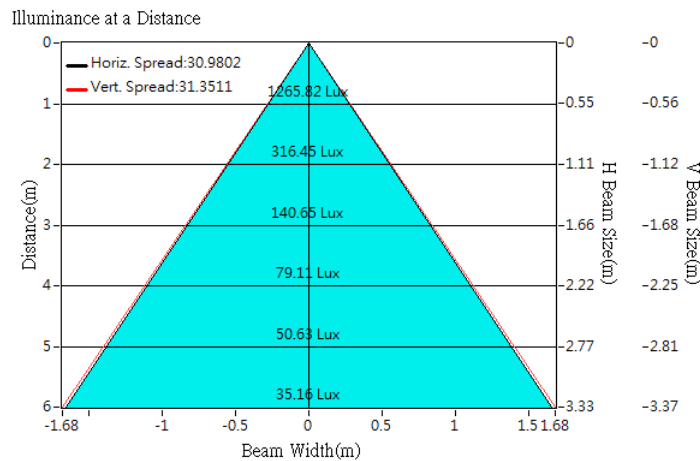
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p> <p>LES CoB</p>
LED	CXB1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	31°		
Field Angle (D10)	53°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	452 lm	Measured @ 3.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

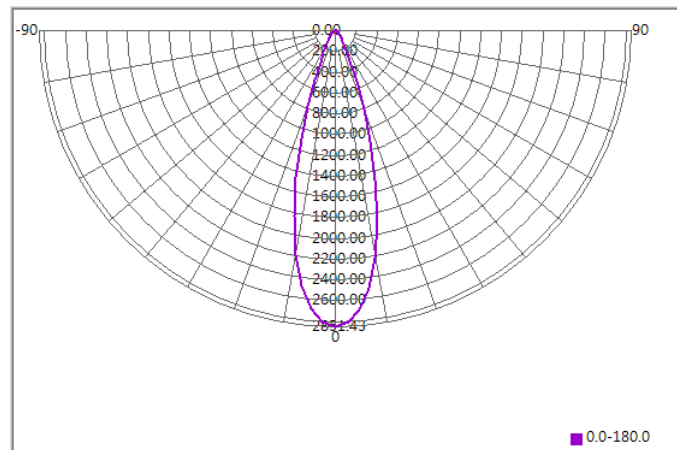




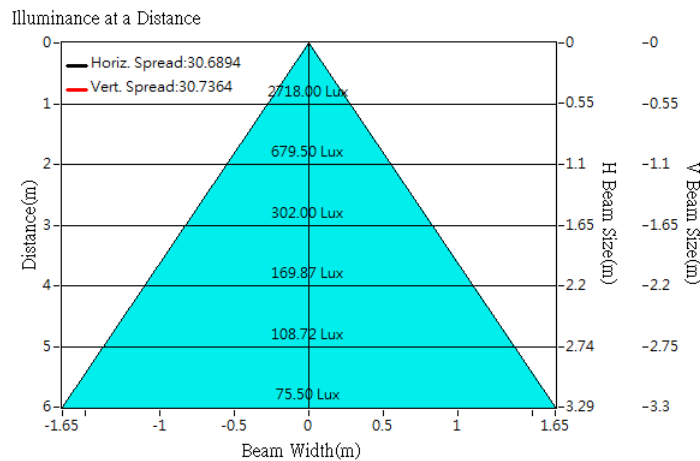
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p> <p>LES CoB</p>
LED	CMA1306		
LES / LED Size	Φ 6 mm		
FWHM (D50)	31°		
Field Angle (D10)	53°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	953 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

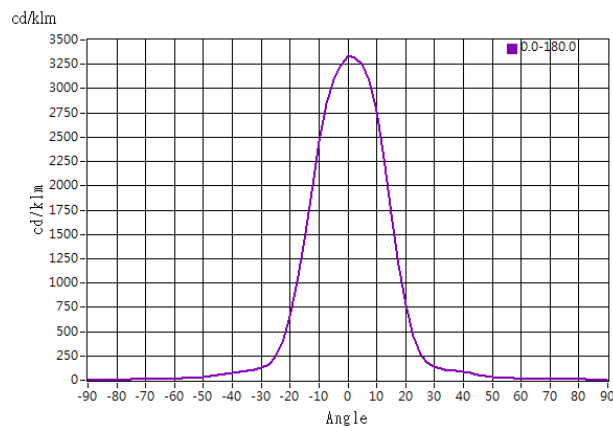




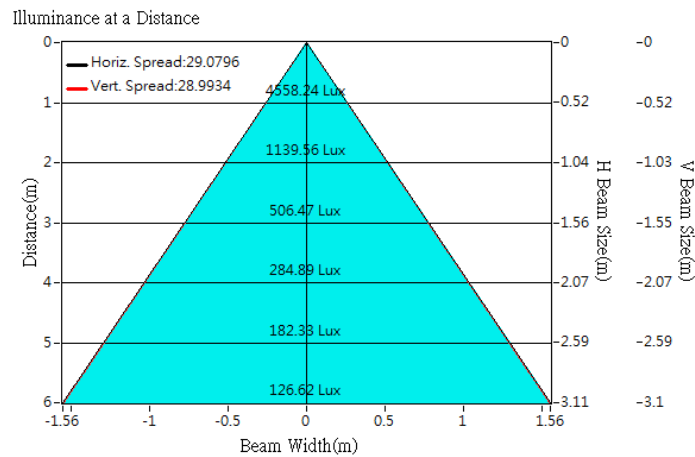
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p>
LED	CXB1310		
LES / LED Size	Φ 6 mm		
FWHM (D50)	29°		
Field Angle (D10)	48°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1368 lm	Measured @ 12.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

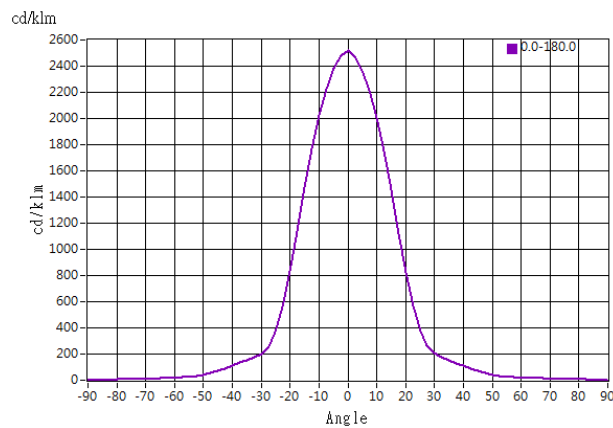




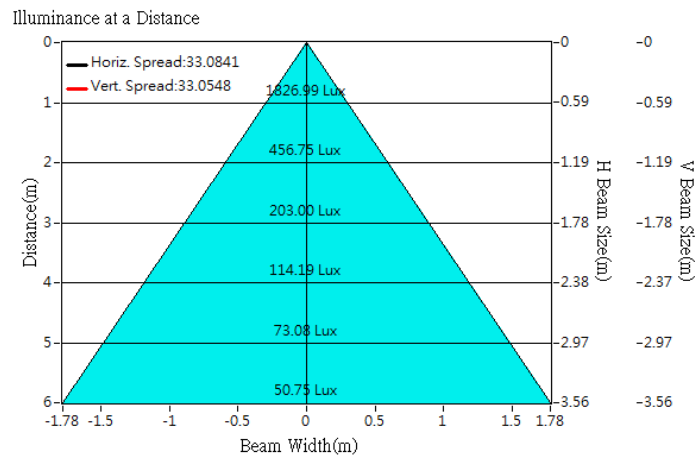
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p>
LED	CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	33°		
Field Angle (D10)	56°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	726 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

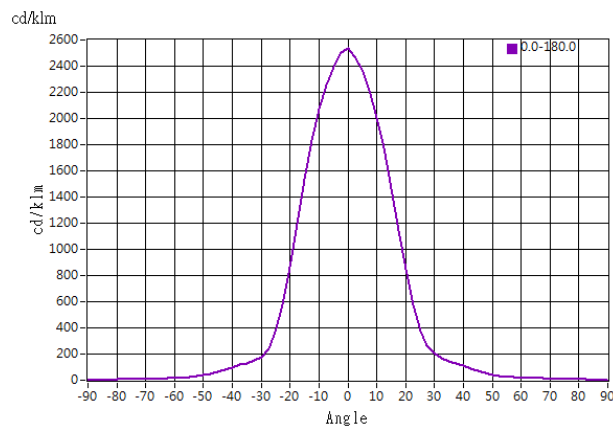




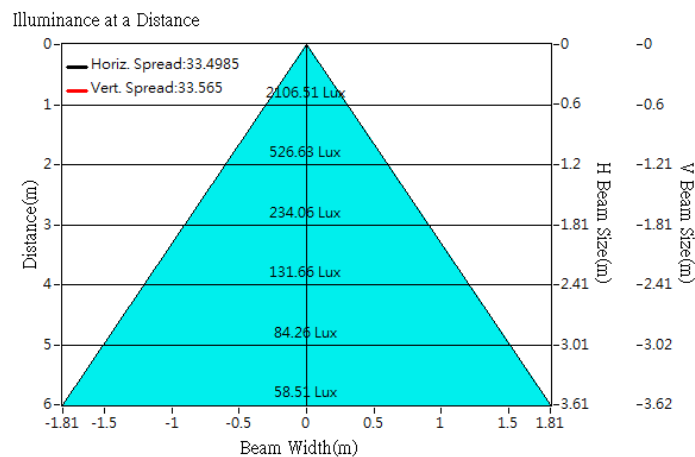
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p> <p>LES CoB</p>
LED	CXB1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°		
Field Angle (D10)	55°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	831 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

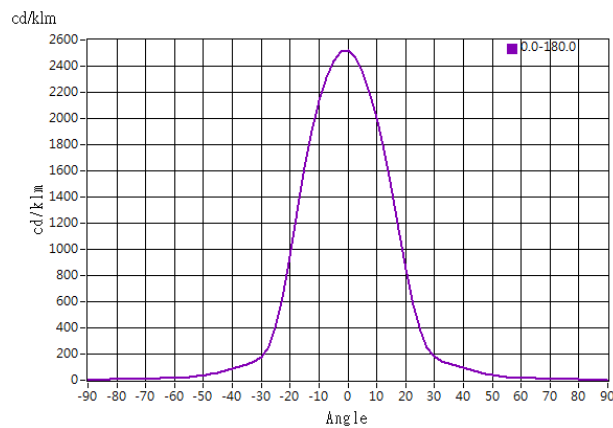




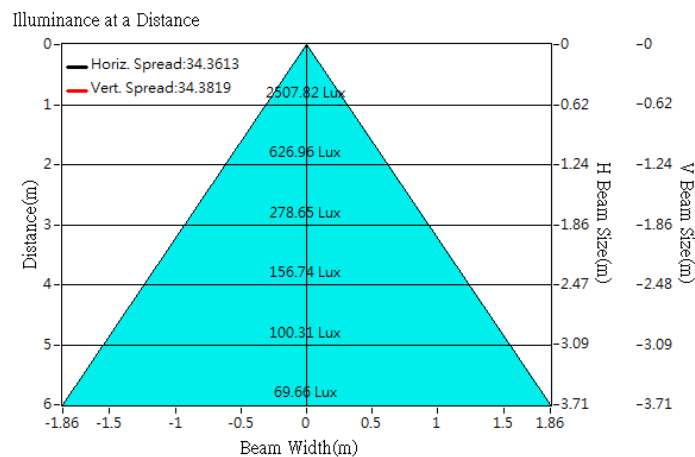
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p>
LED	CXA1510		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°		
Field Angle (D10)	55°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	994 lm	Measured @ 9.0 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

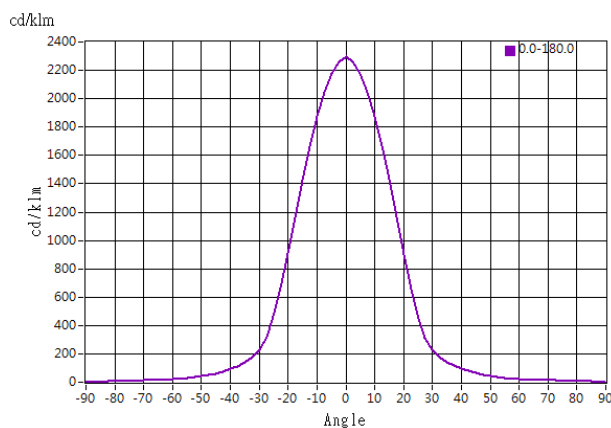




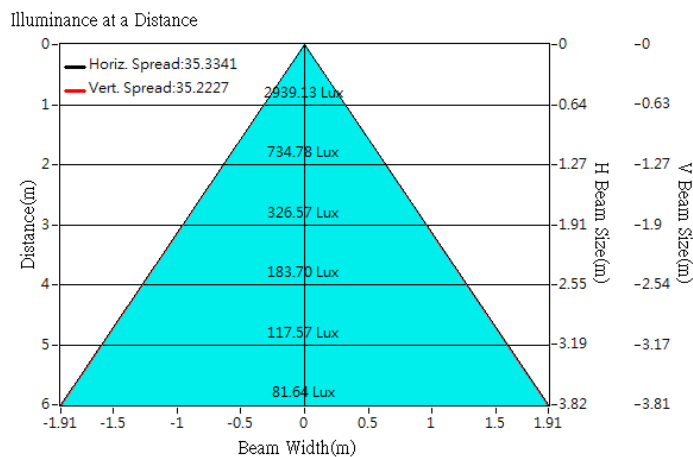
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p>
LED	CXA1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	35°		
Field Angle (D10)	60°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1281 lm	Measured @ 13.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

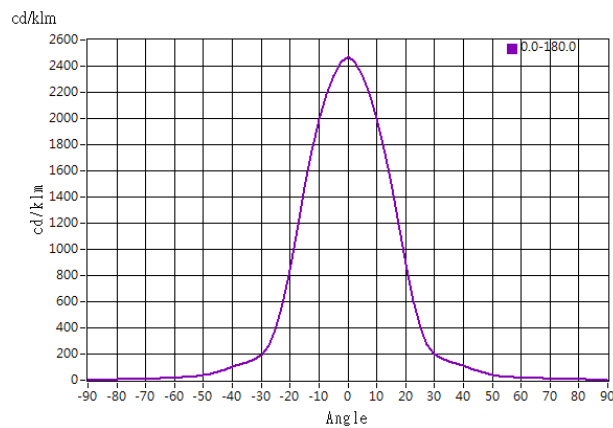




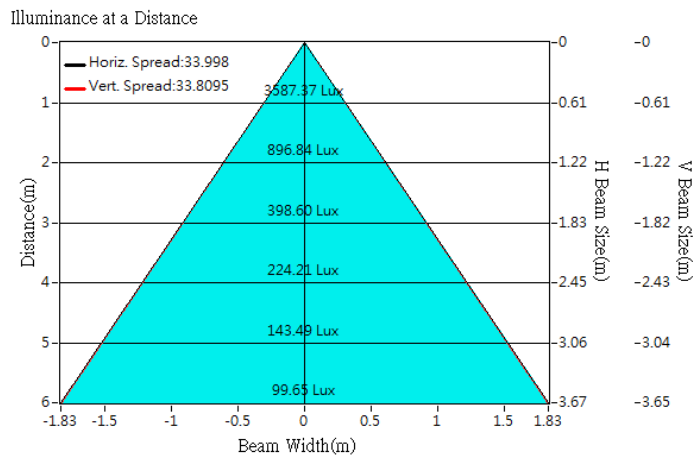
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p> <p>LES CoB</p>
LED	CXB1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°		
Field Angle (D10)	56°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1453 lm	Measured @ 12 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

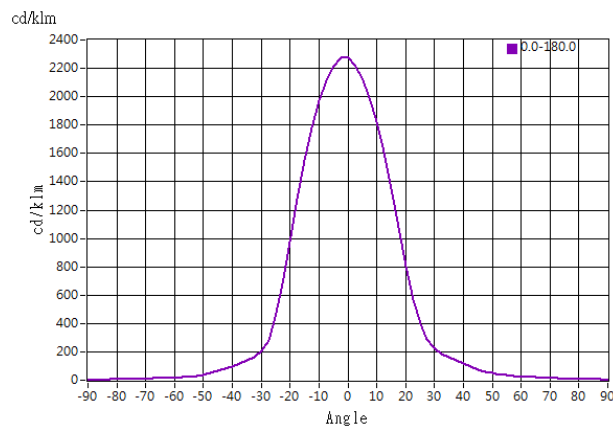




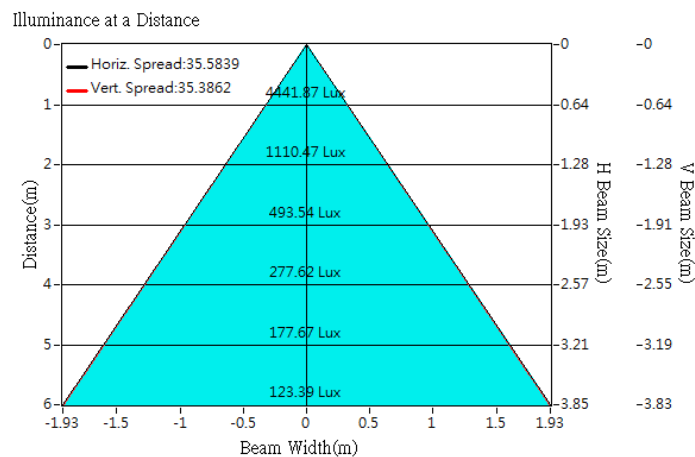
Optical Characteristics

Model Number	CKO-CS17-045021-1304	<p>"H" definition</p>
LED	CMA1516	
LES / LED Size	Φ 9 mm	
FWHM (D50)	36°	
Field Angle (D10)	59°	
H (distance)	2.5mm	
Dimension	Φ =45 mm, Thickness=20.9 mm	
Luminous Flux	1952 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

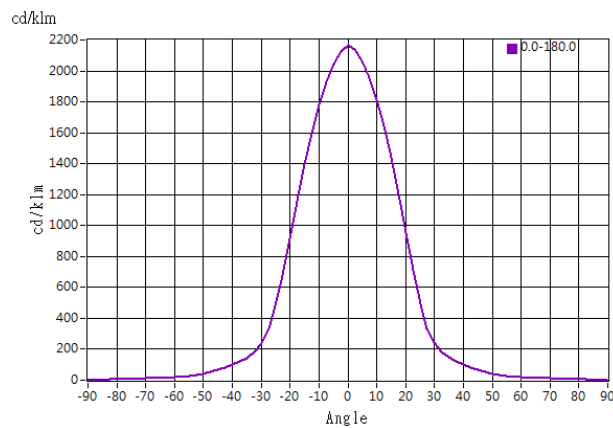




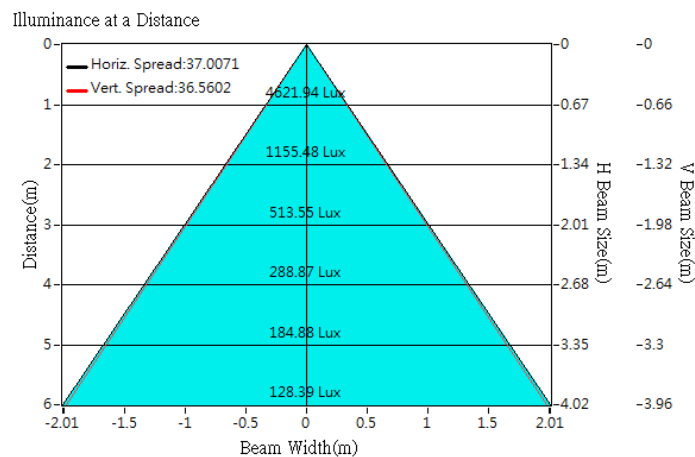
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p>
LED	CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	37°		
Field Angle (D10)	62°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2136 lm	Measured @ 16.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

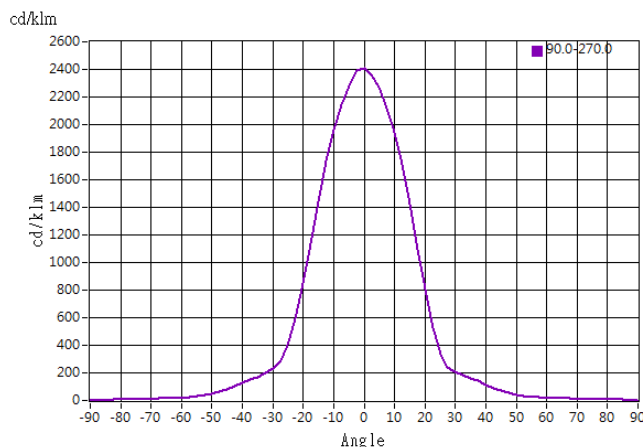




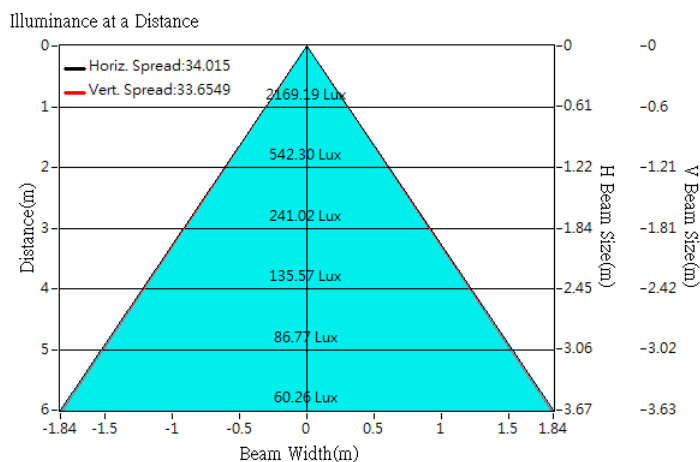
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p>
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	34°		
Field Angle (D10)	58°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	902 lm	Measured @ 7.0 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

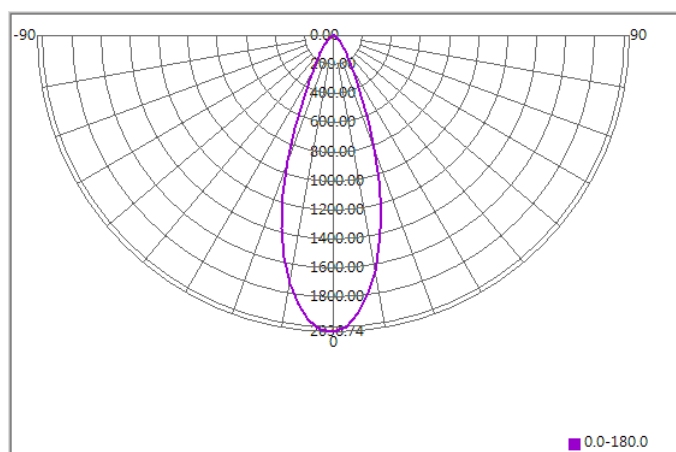




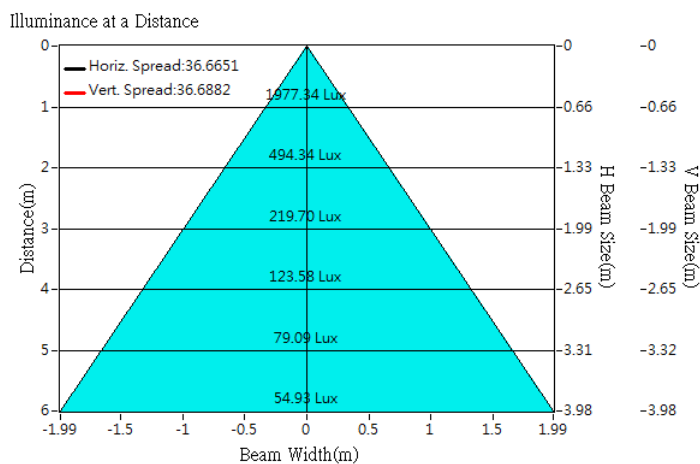
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	37°		
Field Angle (D10)	67°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	971 lm	Measured @ 6.6 W	
Material	PC / UL94V2		

cd/klm

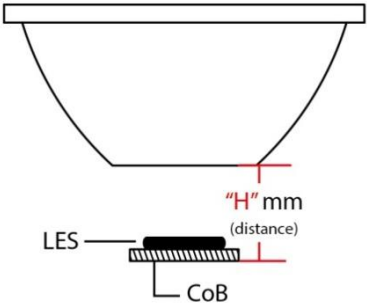


Illuminance At Distances

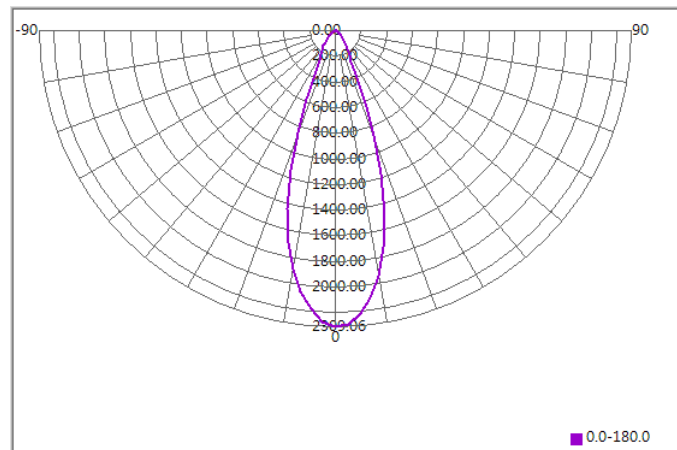




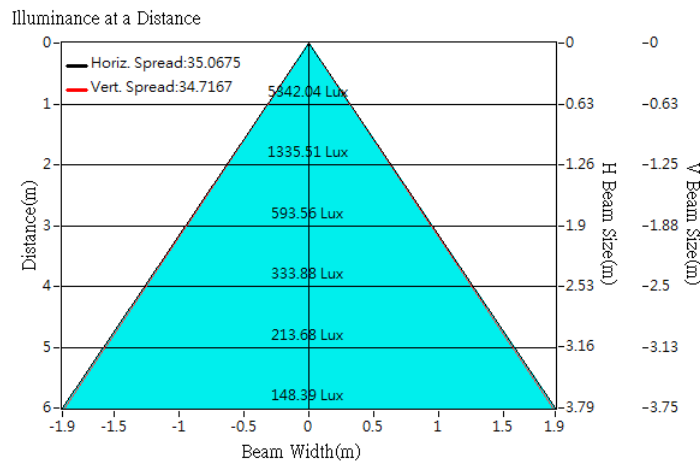
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p> 
LED	CMT1420		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	35°		
Field Angle (D10)	59°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2313 lm	Measured @ 19 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

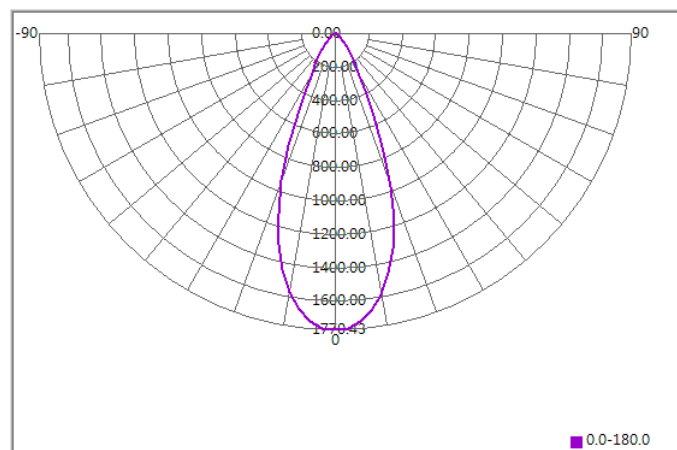




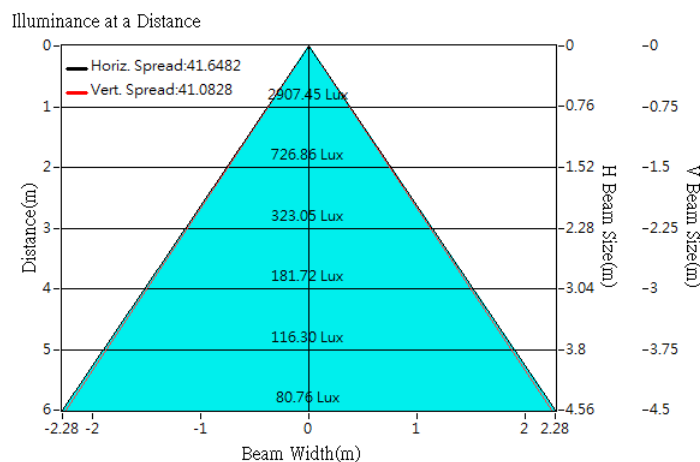
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p> <p>LES CoB</p>
LED	CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	42°		
Field Angle (D10)	71°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1642 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

cd/klm

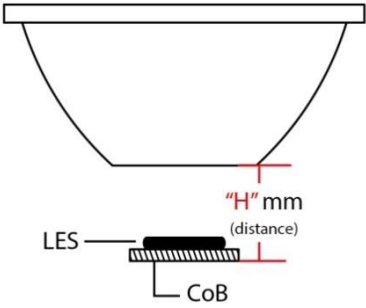


Illuminance At Distances

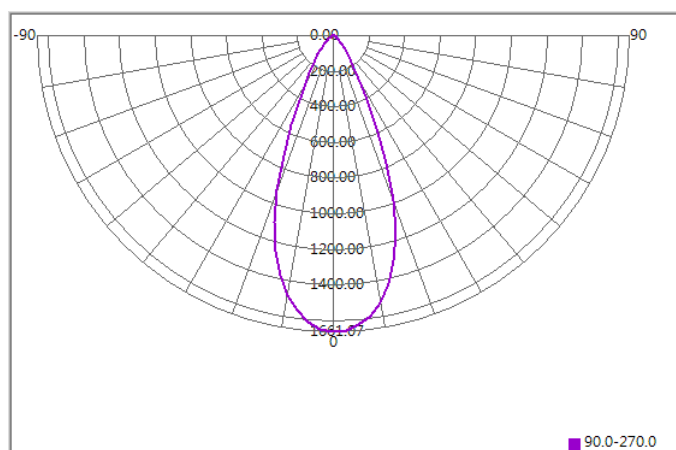




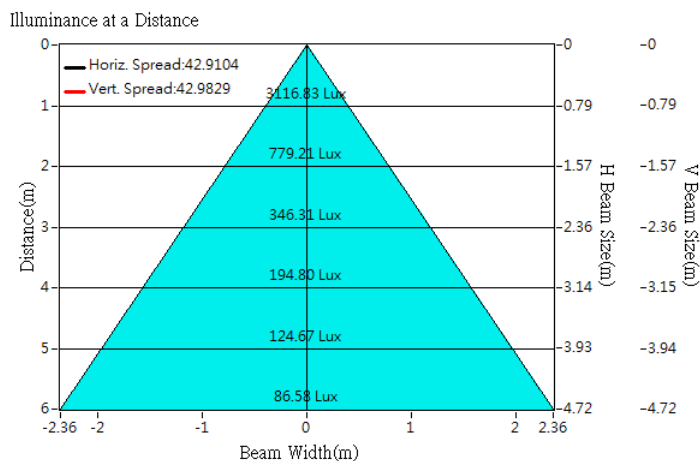
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p> 
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	43°		
Field Angle (D10)	74°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1876 lm	Measured @ 15.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

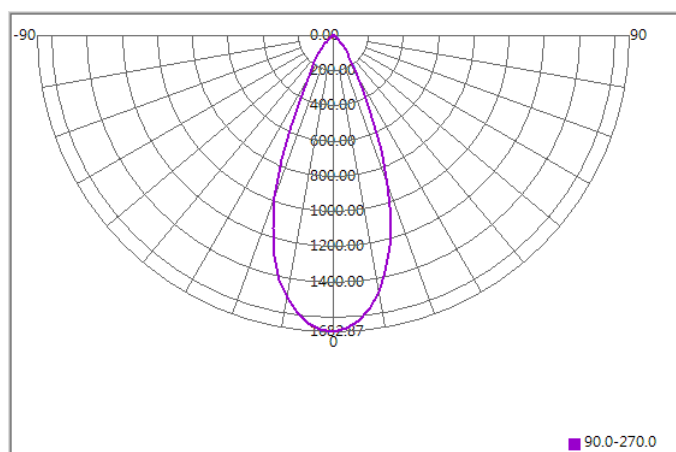




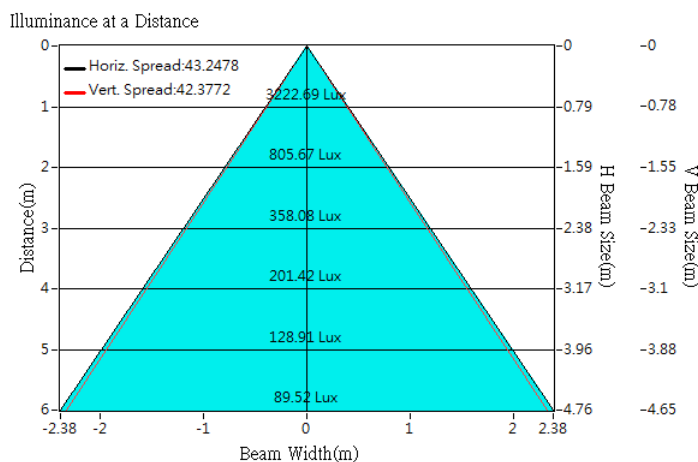
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p>
LED	CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	43°		
Field Angle (D10)	73°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1914 lm	Measured @ 19.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

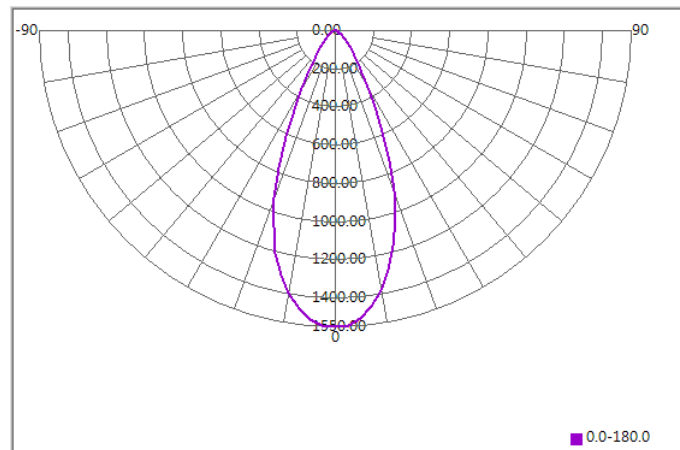




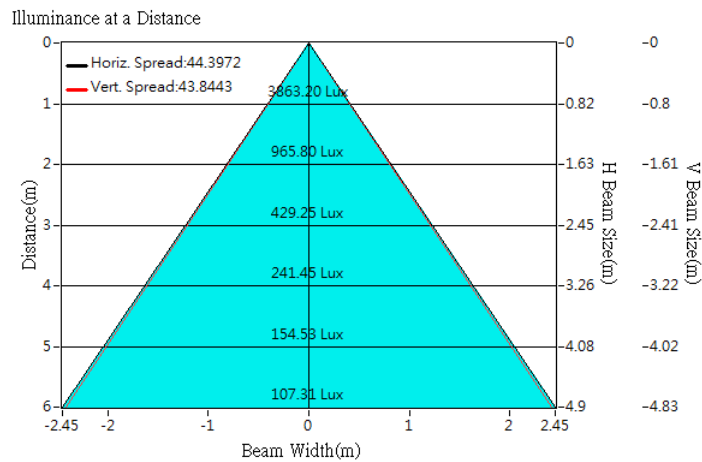
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p> <p>LES CoB</p>
LED	CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	44°		
Field Angle (D10)	77°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2492 lm	Measured @ 19.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

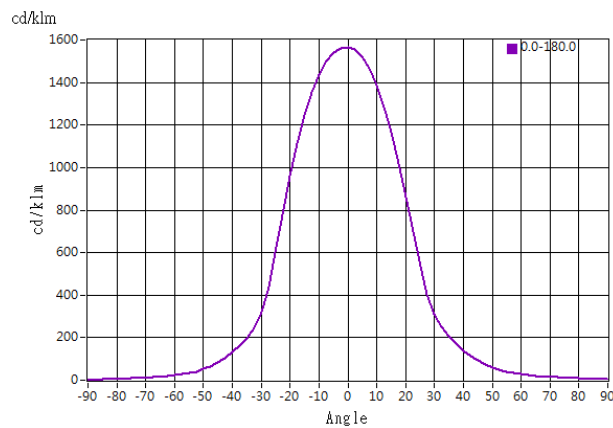




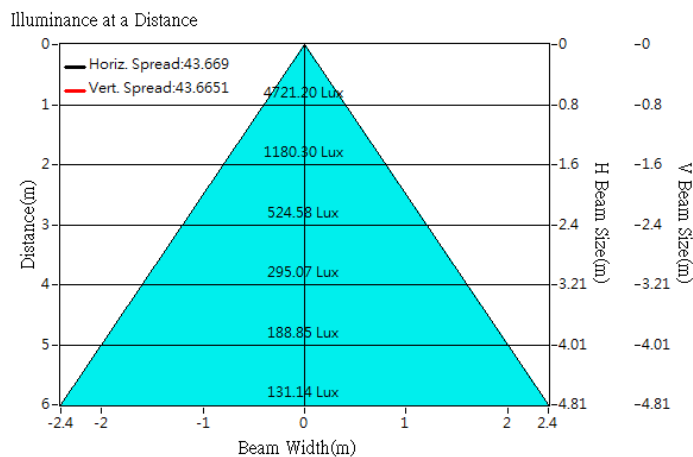
Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p>
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	44°		
Field Angle (D10)	77°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	3020 lm	Measured @ 25.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

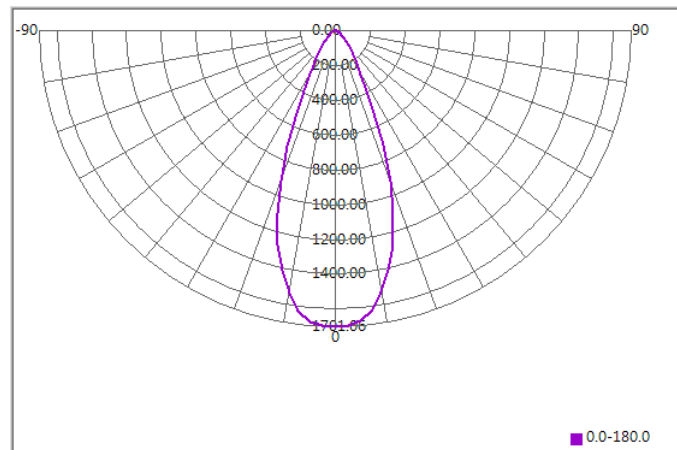




Optical Characteristics

Model Number	CKO-CS17-045021-1304		<p>"H" definition</p>
LED	CXA1850		
LES / LED Size	Φ 12 mm		
FWHM (D50)	42°		
Field Angle (D10)	75°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	3955 lm	Measured @ 48 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

