



Product Model Number

CKO-CH17-045026-0402

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

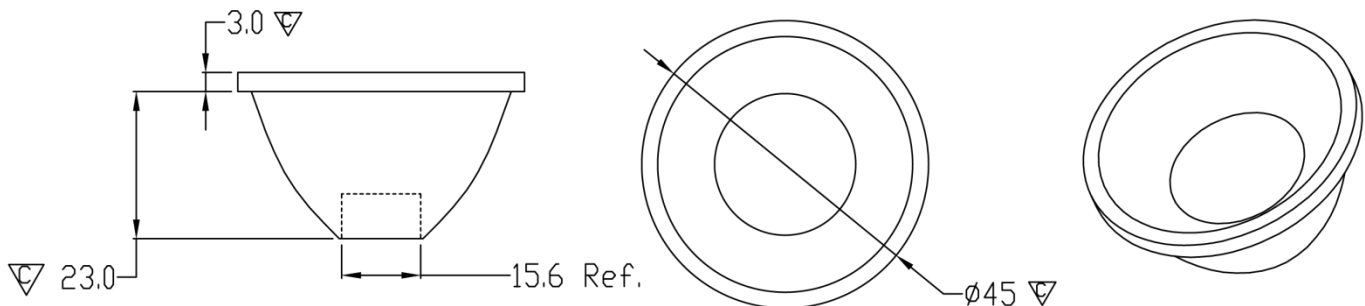


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ 45 x 26



▽:Critical Dimension

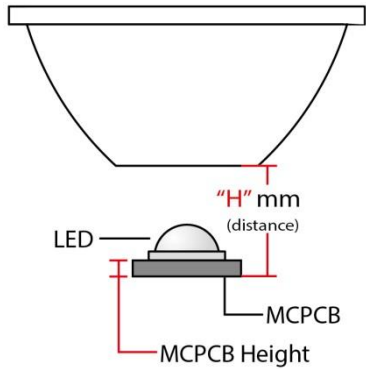


✓ Optical Characteristics – Angle Performances

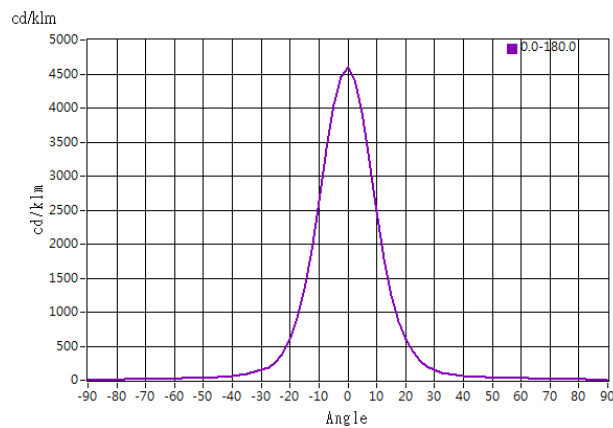
Cree	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
XHP50.2	5.0 x 5.0	22°	43°
XHP70.2	7.0 x 7.0	26°	49°
CMA1303	Φ4.5	17°	37°
CXA1304	Φ6	21°	42°
CXB1304	Φ6	21°	41°
CMA1306	Φ6	21°	42°
CXB1310	Φ6	21°	41°
CXA1507	Φ9	27°	51°
CXB1507	Φ9	27°	50°
CXA1510	Φ9	27°	50°
CXA1512	Φ9	26°	49°
CXB1512	Φ9	27°	50°
CMA1516	Φ9	28°	51°
CXB1520	Φ9	28°	51°
CMT1407	Φ9.8	28°	52°
CMT1412	Φ9.8	28°	53°
CMT1420	Φ9.8	28°	53°



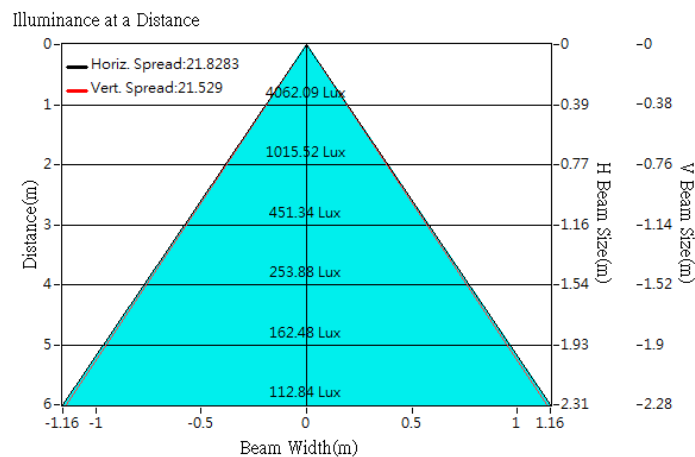
Optical Characteristics

Model Number	CKO-CH17-045026-0402		<p>"H" definition</p> 
LED	XHP50.2		
LES / LED Size	5.0 x 5.0		
FWHM (D50)	22°		
Field Angle (D10)	43°		
H (distance)	2.5 mm		
MCPCB Height	1.1 mm		
Dimension	Φ =45 mm, Thickness=26 mm		
Luminous Flux	884 lm	Measured @ 8.9 W	
Material	PC / UL94V2		

cd/klm

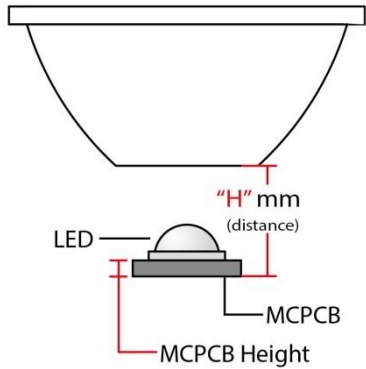


Illuminance At Distances

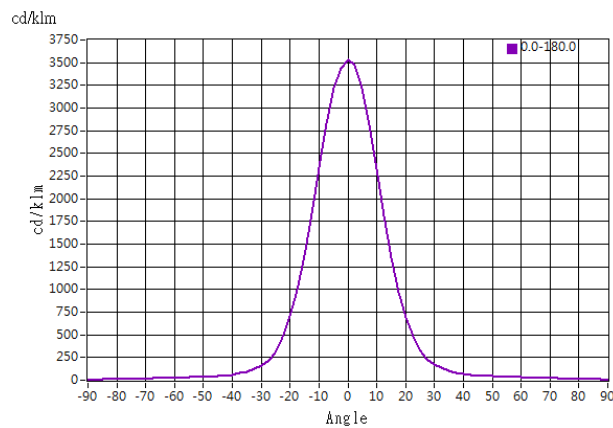




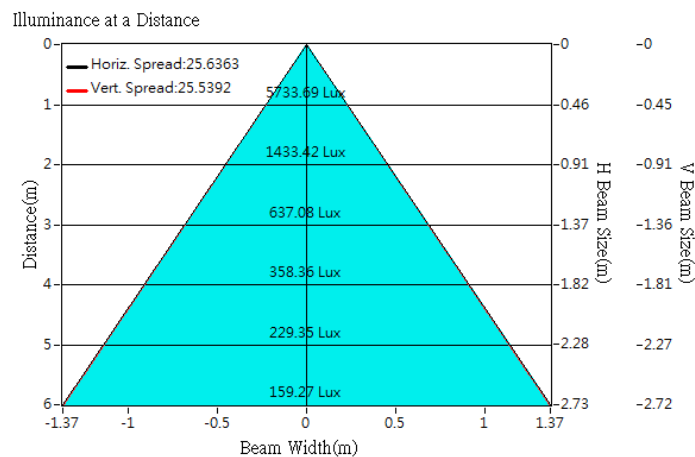
Optical Characteristics

Model Number	CKO-CH17-045026-0402		<p>"H" definition</p> 
LED	XHP70.2		
LES / LED Size	7.0 x 7.0		
FWHM (D50)	26°		
Field Angle (D10)	49°		
H (distance)	2.5 mm		
MCPCB Height	1.1 mm		
Dimension	Φ =45 mm, Thickness=26 mm		
Luminous Flux	1623 lm	Measured @ 13.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

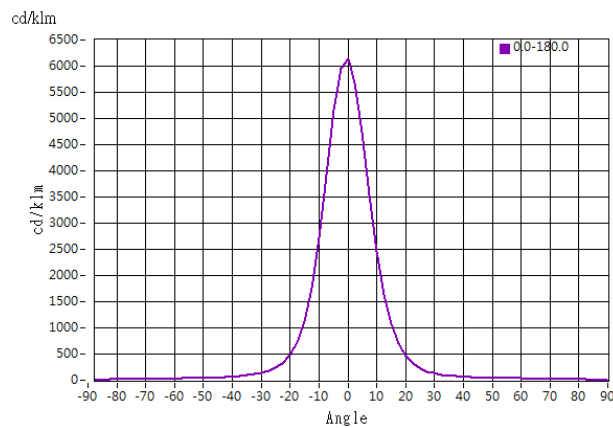




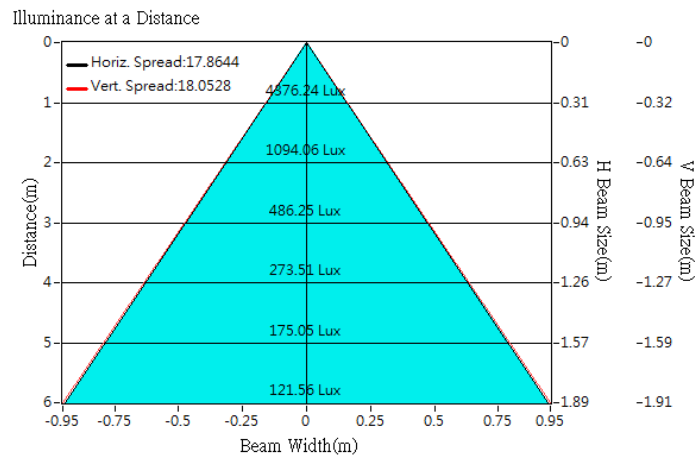
Optical Characteristics

Model Number	CKO-CH17-045026-0402		<p>"H" definition</p>
LED	CMA1303		
LES / LED Size	Φ 4.5 mm		
FWHM (D50)	17°		
Field Angle (D10)	37°		
H (distance)	2.5 mm		
Dimension	Φ =45 mm, Thickness=26 mm		
Luminous Flux	713 lm	Measured @ 6.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

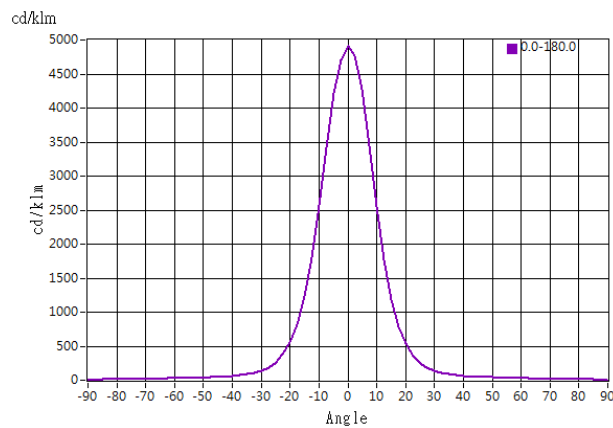




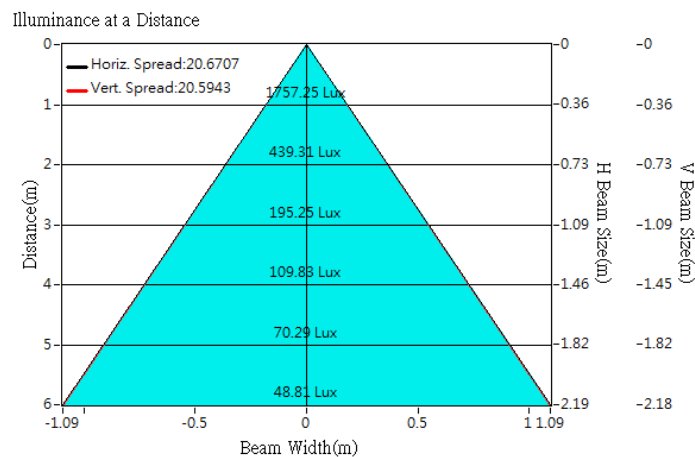
Optical Characteristics

Model Number	CKO-CH17-045026-0402	<p>"H" definition</p>
LED	CXA1304	
LES / LED Size	Φ 6 mm	
FWHM (D50)	21°	
Field Angle (D10)	42°	
H (distance)	2.5 mm	
Dimension	Φ =45 mm, Thickness=26 mm	
Luminous Flux	358 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

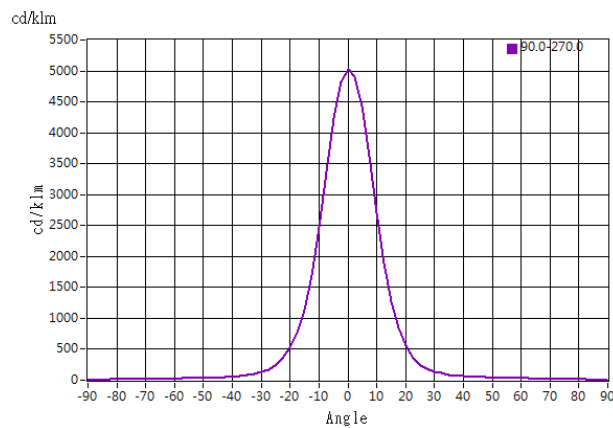




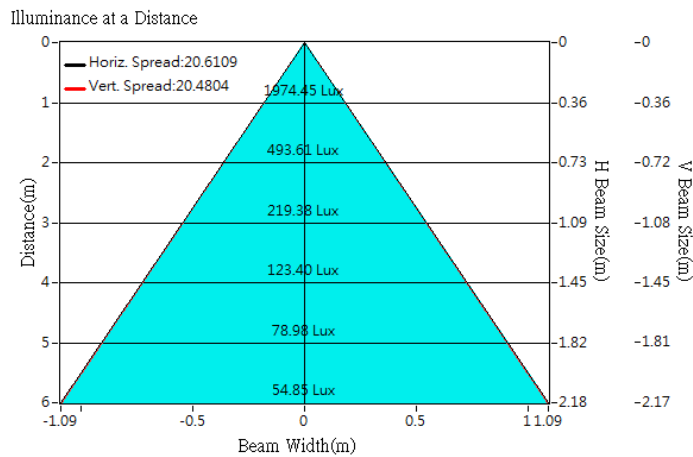
Optical Characteristics

Model Number	CKO-CH17-045026-0402		<p>"H" definition</p>
LED	CXB1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	21°		
Field Angle (D10)	41°		
H (distance)	2.5 mm		
Dimension	Φ =45 mm, Thickness=26 mm		
Luminous Flux	393 lm	Measured @ 3.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

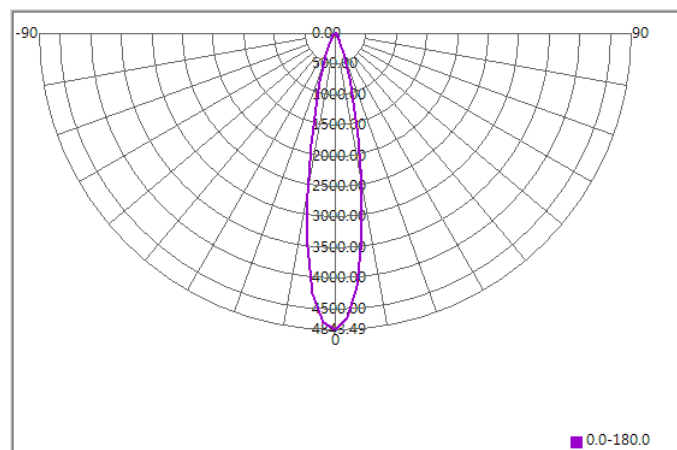




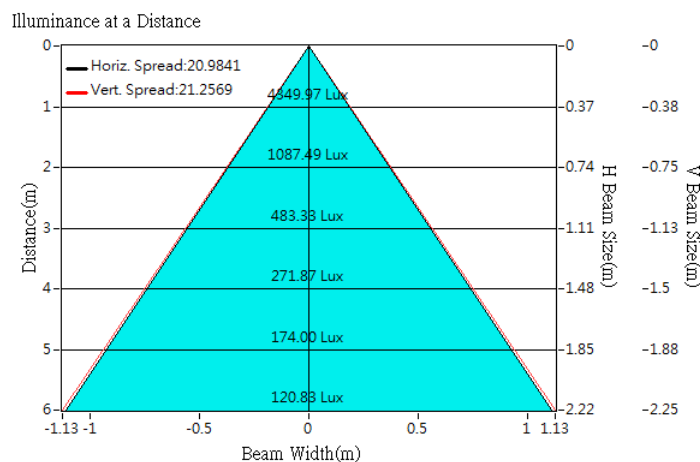
Optical Characteristics

Model Number	CKO-CH17-045026-0402		<p>"H" definition</p>
LED	CMA1306		
LES / LED Size	Φ 6 mm		
FWHM (D50)	21°		
Field Angle (D10)	42°		
H (distance)	2.5 mm		
Dimension	Φ =45 mm, Thickness=26 mm		
Luminous Flux	898 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

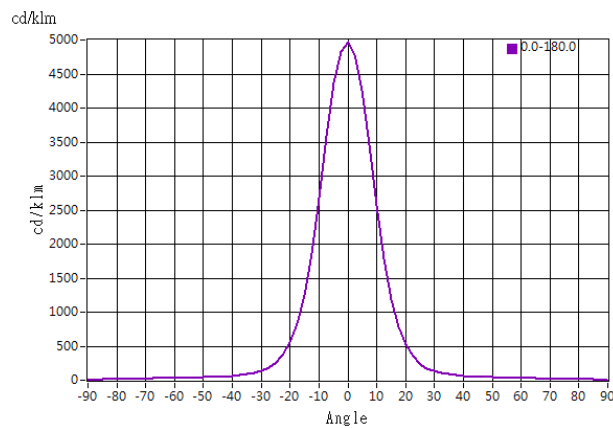




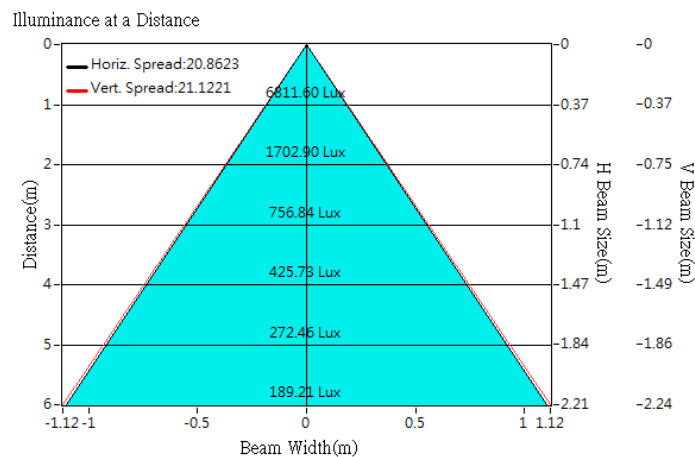
Optical Characteristics

Model Number	CKO-CH17-045026-0402	<p>"H" definition</p>
LED	CXB1310	
LES / LED Size	Φ 6 mm	
FWHM (D50)	21°	
Field Angle (D10)	41°	
H (distance)	2.5 mm	
Dimension	Φ =45 mm, Thickness=26 mm	
Luminous Flux	1370 lm Measured @ 12.4 W	
Material	PC / UL94V2	

cd/klm

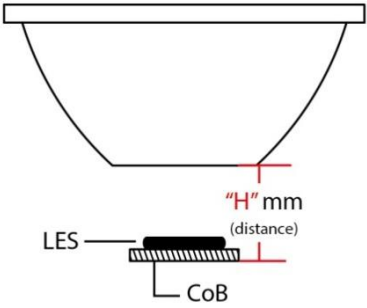


Illuminance At Distances

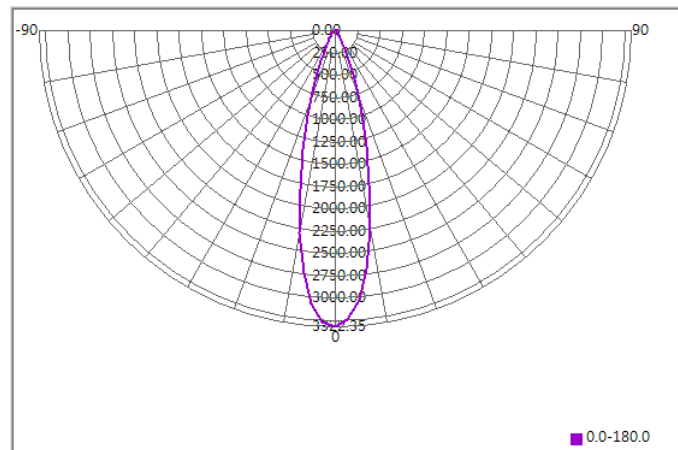




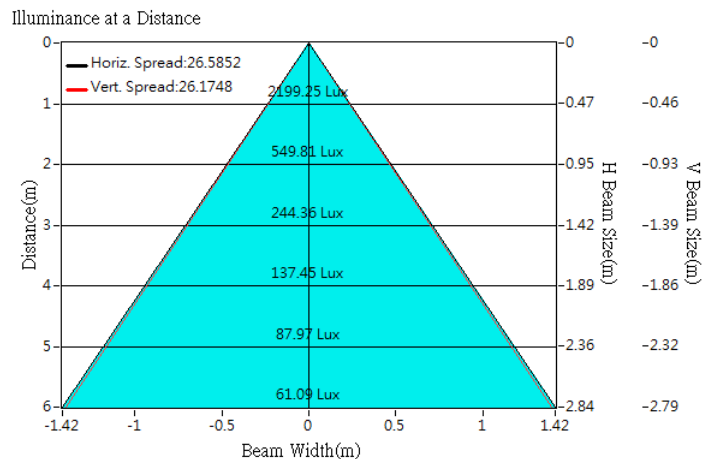
Optical Characteristics

Model Number	CKO-CH17-045026-0402		<p>"H" definition</p> 
LED	CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	27°		
Field Angle (D10)	51°		
H (distance)	2.5 mm		
Dimension	Φ =45 mm, Thickness=26 mm		
Luminous Flux	662 lm	Measured @ 7.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

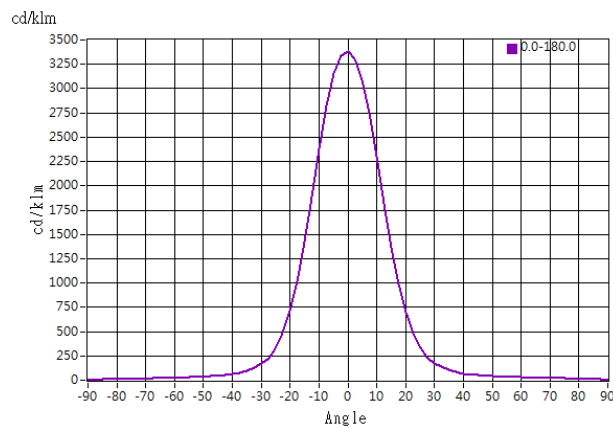




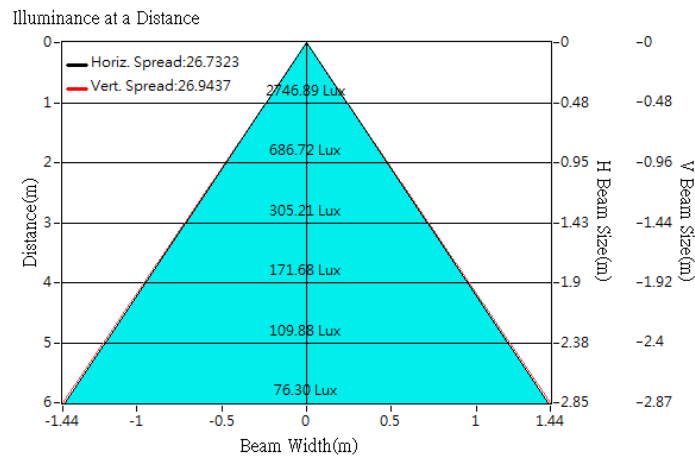
Optical Characteristics

Model Number	CKO-CH17-045026-0402		<p>"H" definition</p>
LED	CXB1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	27°		
Field Angle (D10)	50°		
H (distance)	2.5 mm		
Dimension	Φ =45 mm, Thickness=26 mm		
Luminous Flux	812 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

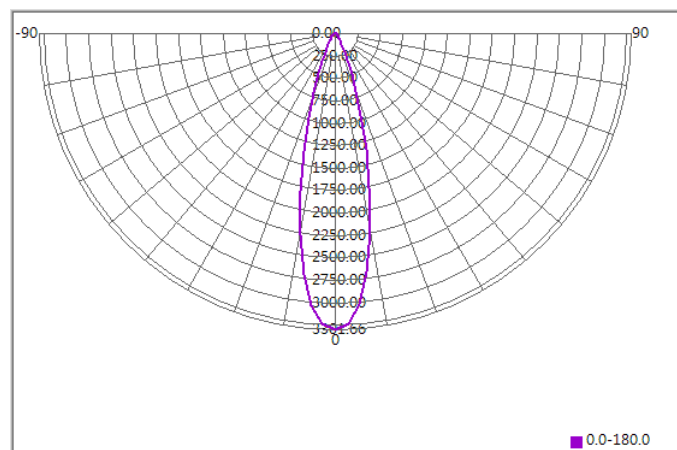




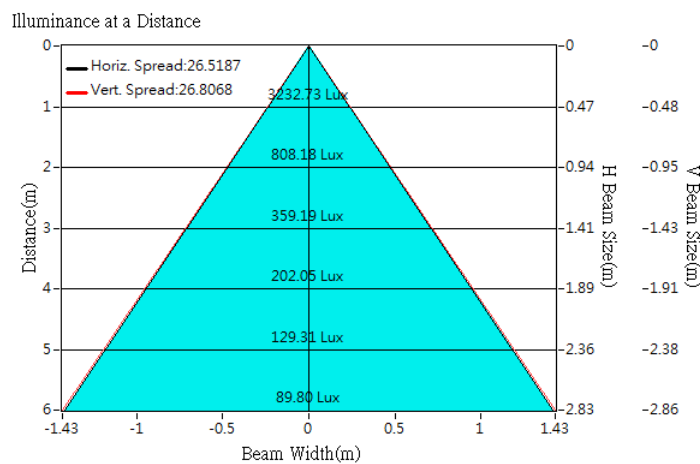
Optical Characteristics

Model Number	CKO-CH17-045026-0402	<p>"H" definition</p> <p>LES CoB</p>	
LED	CXA1510		
LES / LED Size	Φ 9 mm		
FWHM (D50)	27°		
Field Angle (D10)	50°		
H (distance)	2.5 mm		
Dimension	Φ =45 mm, Thickness=26 mm		
Luminous Flux	979 lm		Measured @ 9.1 W
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

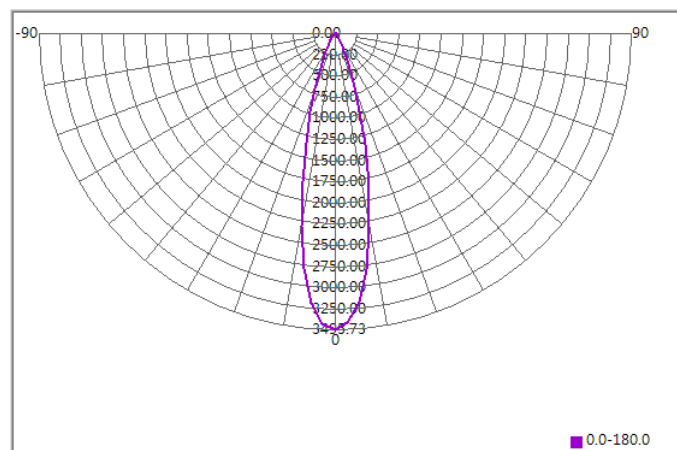




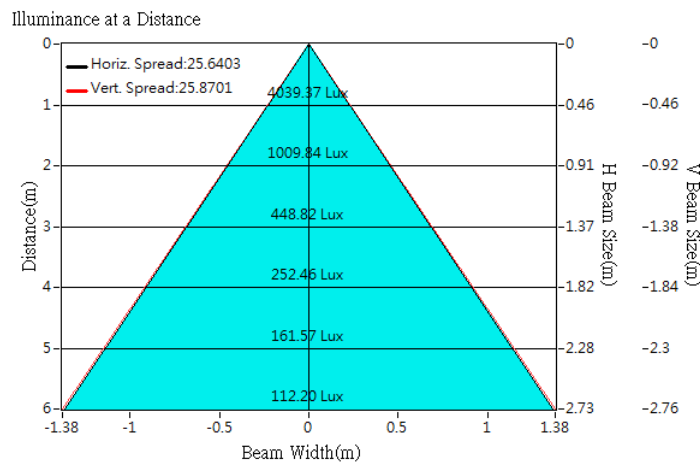
Optical Characteristics

Model Number	CKO-CH17-045026-0402	<p>"H" definition</p> <p>LES CoB</p>	
LED	CXA1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	26°		
Field Angle (D10)	49°		
H (distance)	2.5 mm		
Dimension	Φ =45 mm, Thickness=26 mm		
Luminous Flux	1155 lm		Measured @ 13.2 W
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

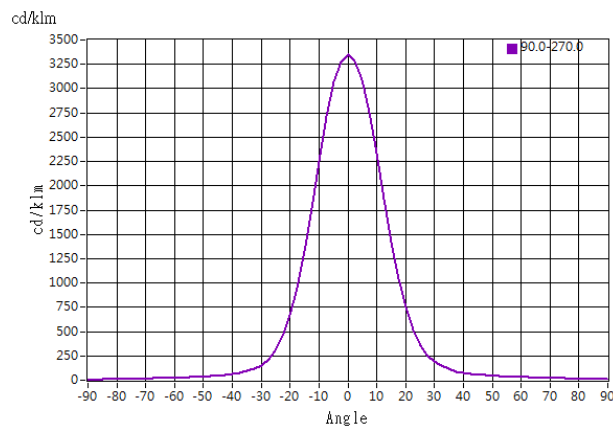




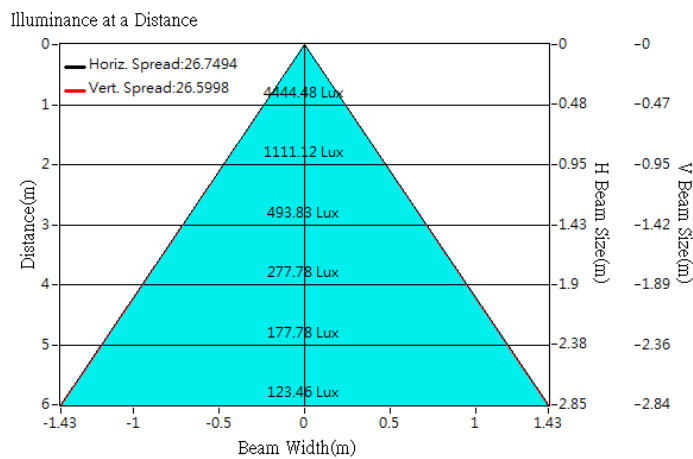
Optical Characteristics

Model Number	CKO-CH17-045026-0402	<p>"H" definition</p>
LED	CXB1512	
LES / LED Size	Φ 9 mm	
FWHM (D50)	27°	
Field Angle (D10)	50°	
H (distance)	2.5 mm	
Dimension	Φ =45 mm, Thickness=26 mm	
Luminous Flux	1327 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

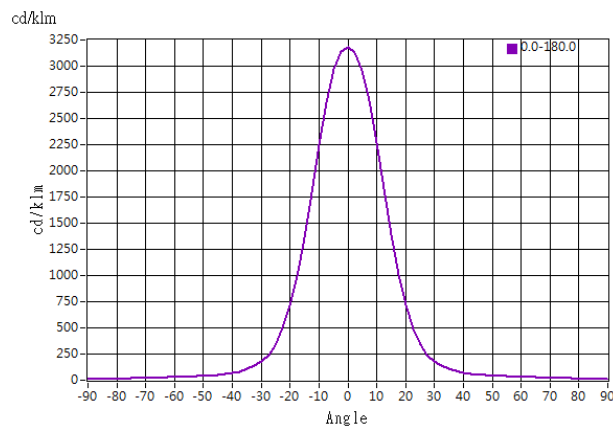




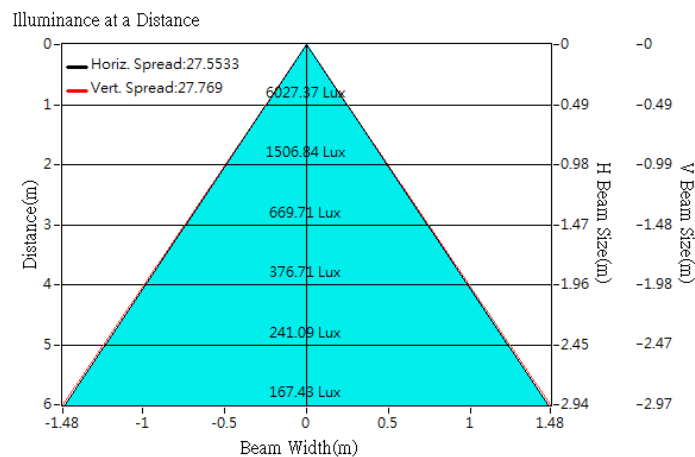
Optical Characteristics

Model Number	CKO-CH17-045026-0402	<p>"H" definition</p>
LED	CMA1516	
LES / LED Size	Φ 9 mm	
FWHM (D50)	28°	
Field Angle (D10)	51°	
H (distance)	2.5 mm	
Dimension	Φ =45 mm, Thickness=26 mm	
Luminous Flux	1896 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

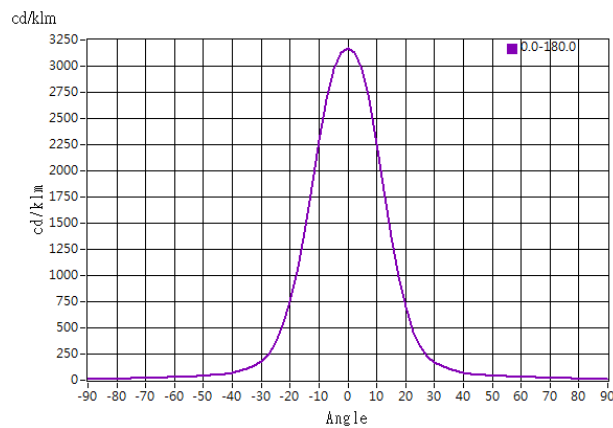




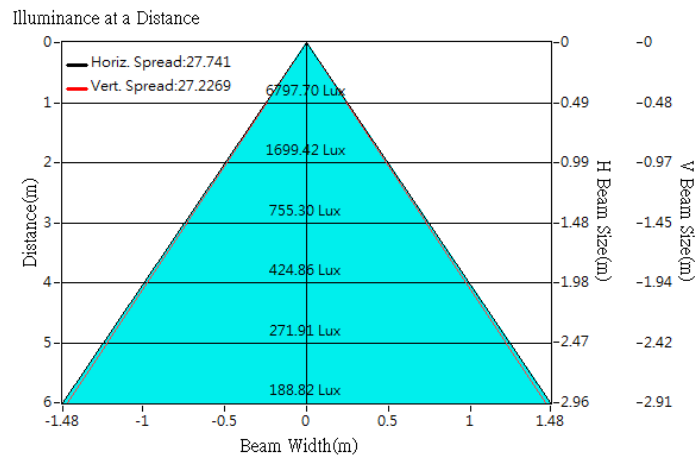
Optical Characteristics

Model Number	CKO-CH17-045026-0402	<p>"H" definition</p>
LED	CXB1520	
LES / LED Size	Φ 9 mm	
FWHM (D50)	28°	
Field Angle (D10)	51°	
H (distance)	2.5 mm	
Dimension	Φ =45 mm, Thickness=26 mm	
Luminous Flux	2143 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

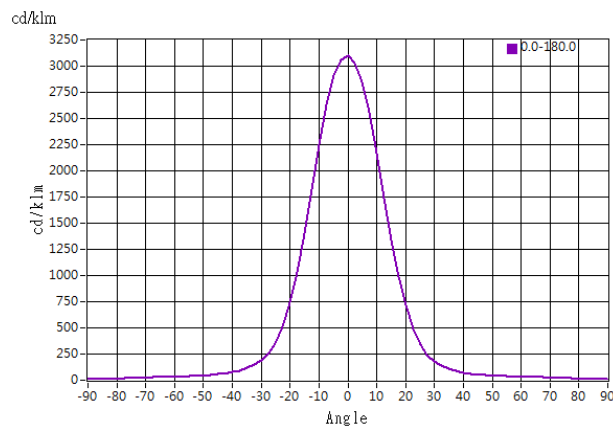




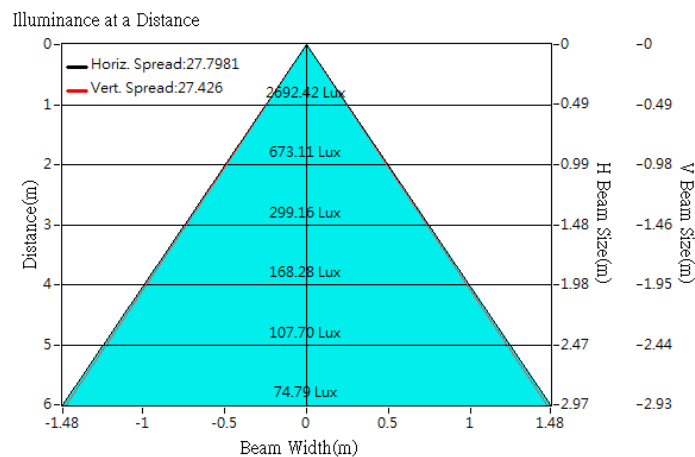
Optical Characteristics

Model Number	CKO-CH17-045026-0402		<p>"H" definition</p>
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	28°		
Field Angle (D10)	52°		
H (distance)	2.5 mm		
Dimension	Φ =45 mm, Thickness=26 mm		
Luminous Flux	869 lm	Measured @ 7.0 W	
Material	PC / UL94V2		

cd/klm

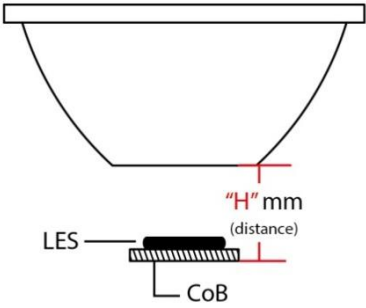


Illuminance At Distances

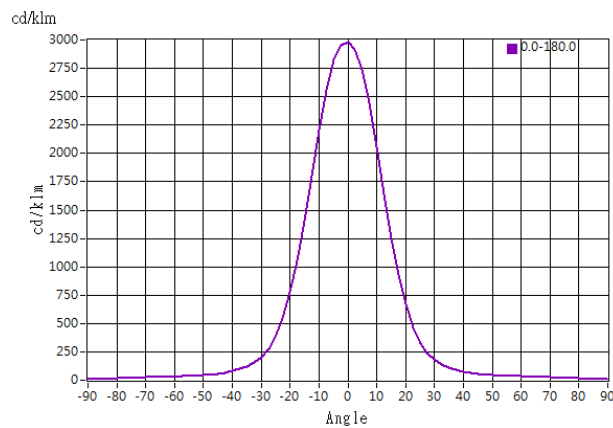




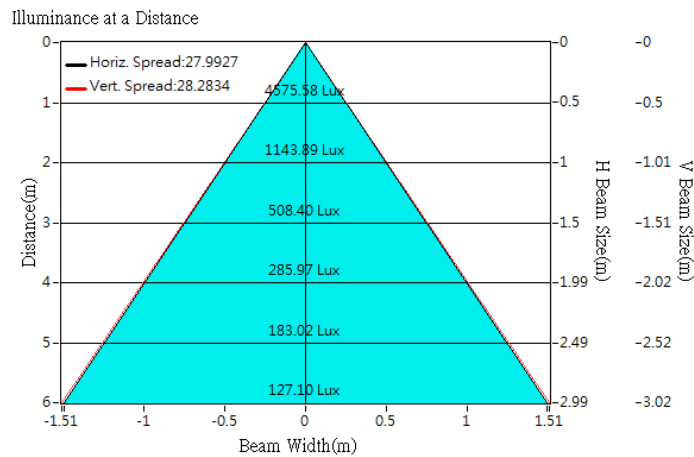
Optical Characteristics

Model Number	CKO-CH17-045026-0402	<p>"H" definition</p> 
LED	CMT1412	
LES / LED Size	Φ 9.8 mm	
FWHM (D50)	28°	
Field Angle (D10)	53°	
H (distance)	2.5 mm	
Dimension	Φ =45 mm, Thickness=26 mm	
Luminous Flux	1537 lm Measured @ 12.2 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

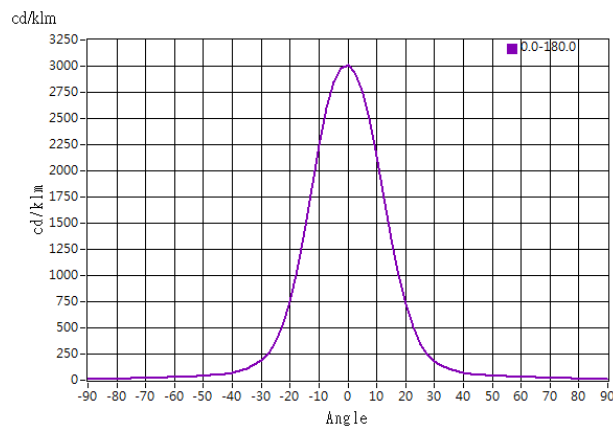




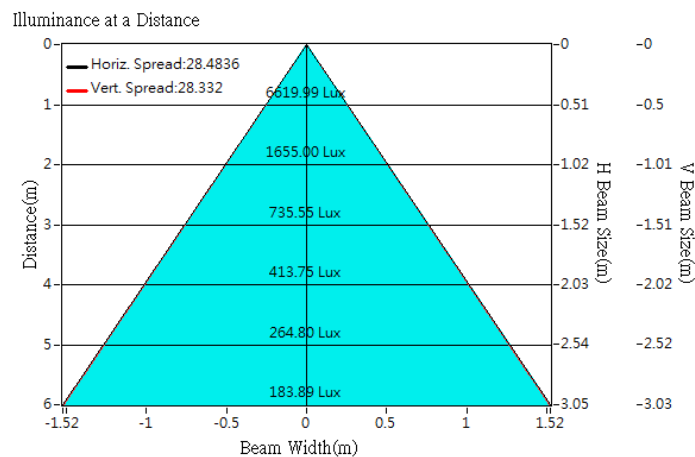
Optical Characteristics

Model Number	CKO-CH17-045026-0402	<p>"H" definition</p>
LED	CMT1420	
LES / LED Size	Φ 9.8 mm	
FWHM (D50)	28°	
Field Angle (D10)	53°	
H (distance)	2.5 mm	
Dimension	Φ =45 mm, Thickness=26 mm	
Luminous Flux	2203 lm	
Material	PC / UL94V2	

cd/klm

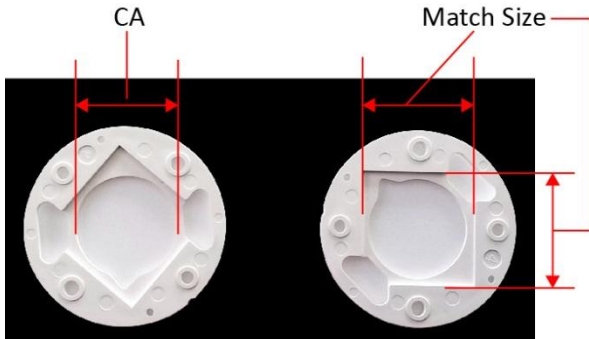


Illuminance At Distances





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