



Product Model Number

CKO-CH15-060027-4301

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

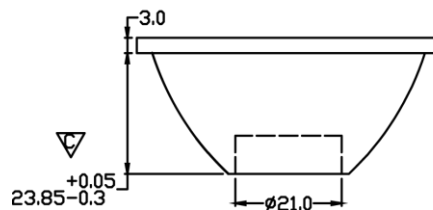
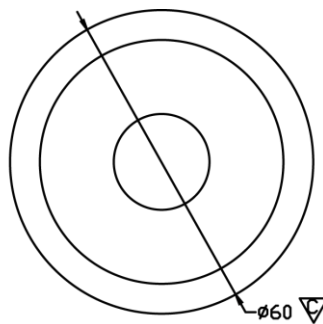


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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

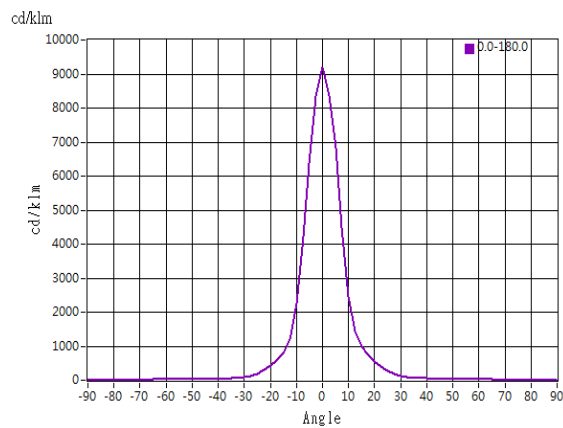
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1507	Φ9	14°	30°
CXB1507	Φ9	15°	33°
CXA1510	Φ9	14°	31°
CXA1512	Φ9	14°	33°
CXB1512	Φ9	15°	30°
CMA1516	Φ9	15°	33°
CXB1520	Φ9	16°	36°
CMT1407	Φ9.8	16°	35°
CMT1412	Φ9.8	17°	33°
CMT1420	Φ9.8	17°	36°
CXA1816	Φ12	19°	41°
CXB1816	Φ12	19°	43°
CXA1820	Φ12	21°	42°
CXB1820	Φ12	21°	41°
CMA1825	Φ12	21°	43°
CXA1830	Φ14	23°	46°
CXB1830	Φ14	24°	47°
CMA1840	Φ14	24°	50°
CMT1922	Φ14.5	24°	49°
CMT1925	Φ14.5	25°	51°
CMT1930	Φ14.5	24°	50°
CMT1945	Φ14.5	24°	50°



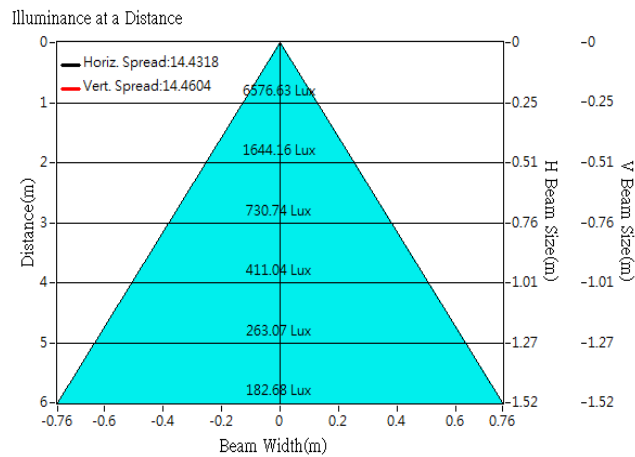
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p> <p>LES CoB</p>
LED	CXA1507	
LES / LED Size	Φ 9 mm	
FWHM (D50)	14°	
Field Angle (D10)	30°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	714 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

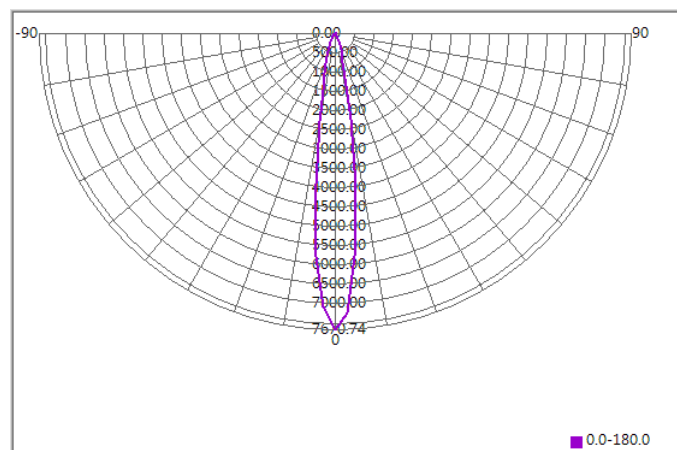




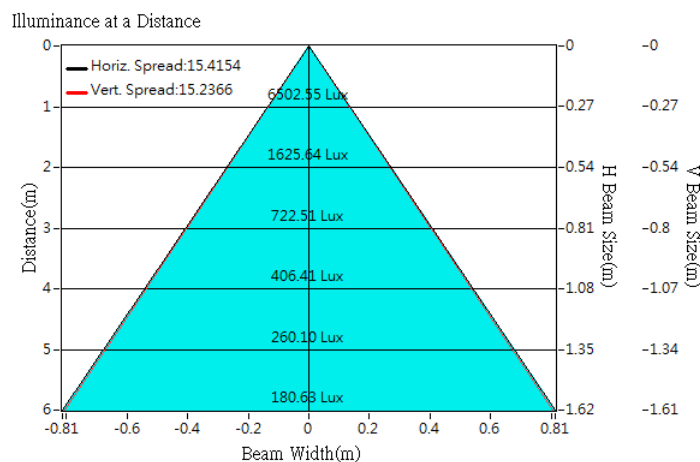
Optical Characteristics

Model Number	CKO-CH15-060027-4301		<p>"H" definition</p>
LED	CXB1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	15°		
Field Angle (D10)	33°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	847 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

cd/klm

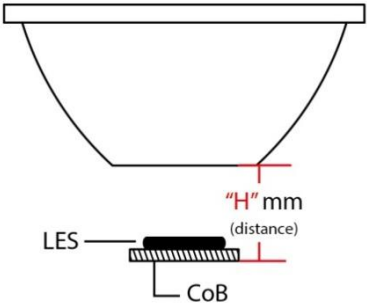


Illuminance At Distances

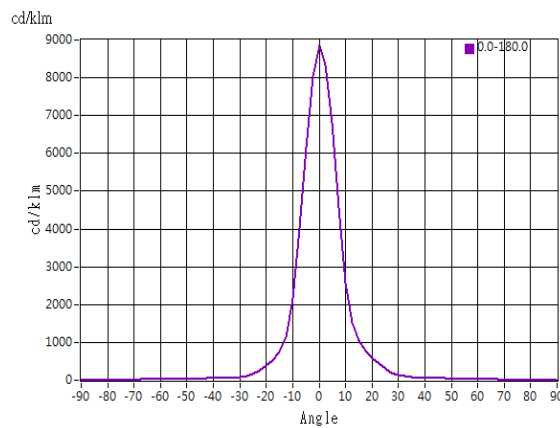




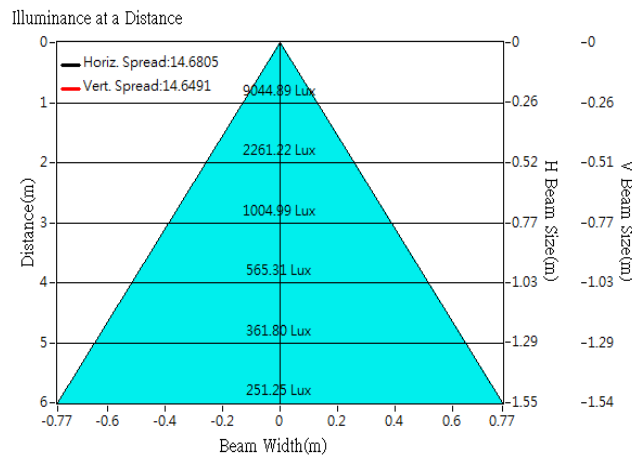
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p> 
LED	CXA1510	
LES / LED Size	Φ 9 mm	
FWHM (D50)	14°	
Field Angle (D10)	31°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1020 lm Measured @ 9.04 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

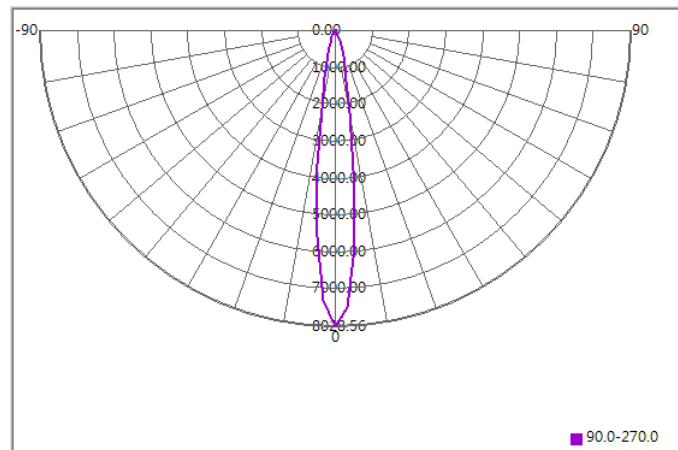




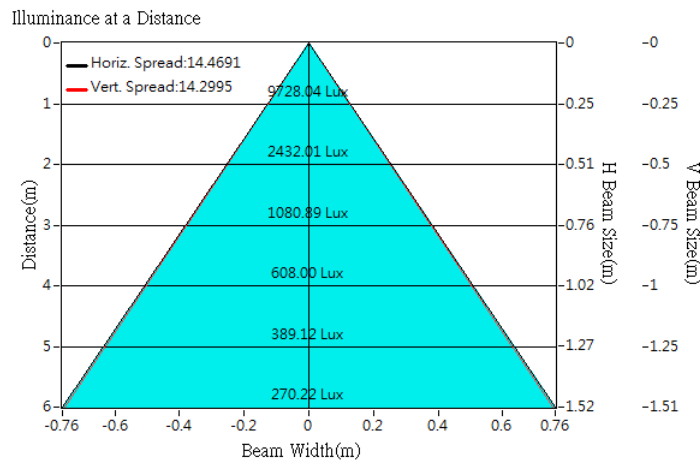
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p>
LED	CXA1512	
LES / LED Size	Φ 9 mm	
FWHM (D50)	14°	
Field Angle (D10)	33°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1211 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

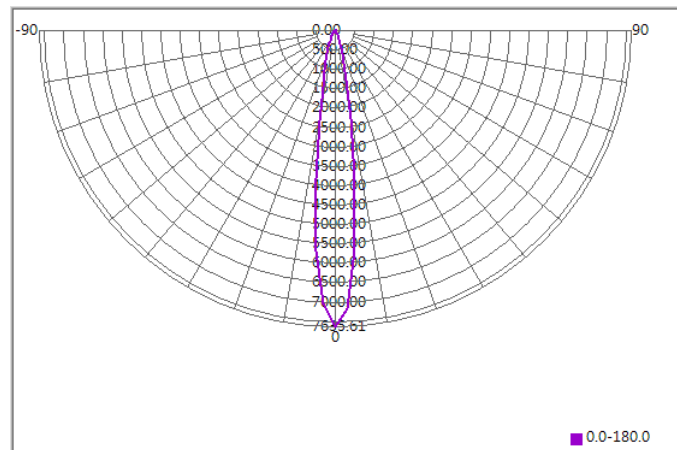




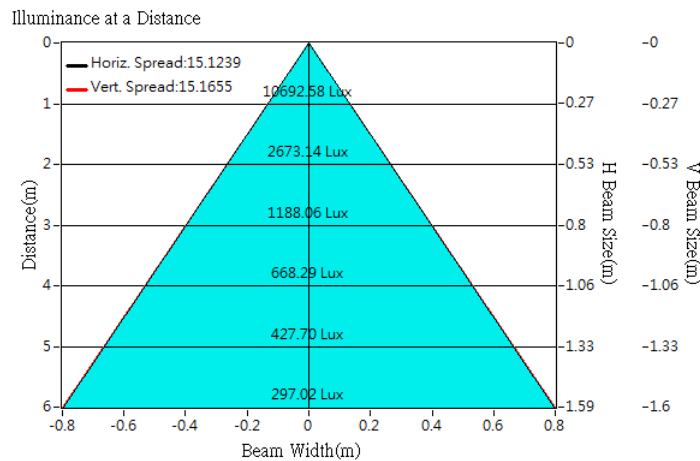
Optical Characteristics

Model Number	CKO-CH15-060027-4301		<p>"H" definition</p> <p>LES CoB</p>
LED	CXB1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	15°		
Field Angle (D10)	30°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1400 lm	Measured @ 11.9 W	
Material	PC / UL94V2		

cd/klm

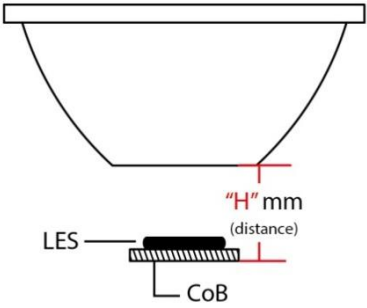


Illuminance At Distances

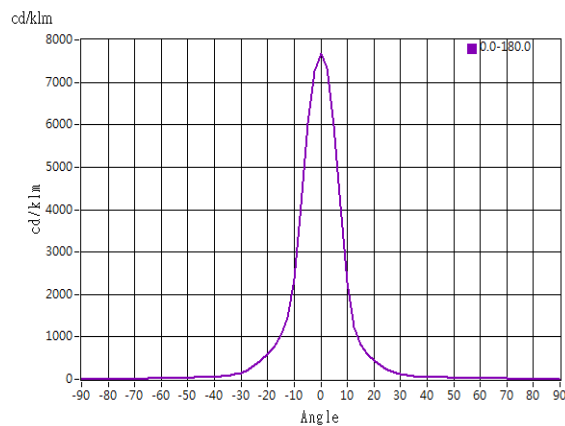




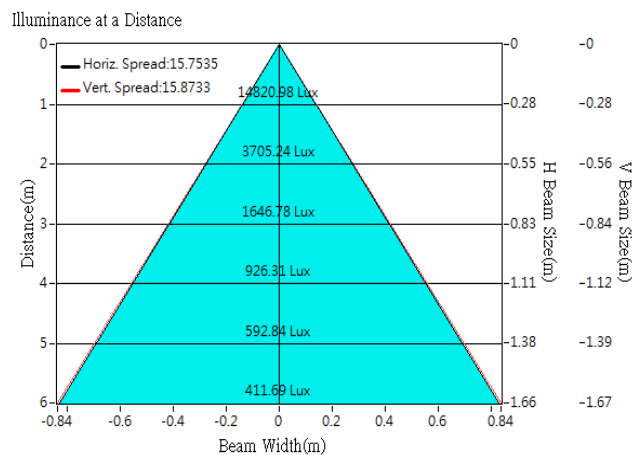
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p> 
LED	CMA1516	
LES / LED Size	Φ 9 mm	
FWHM (D50)	15°	
Field Angle (D10)	33°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1931 lm Measured @ 15.9 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

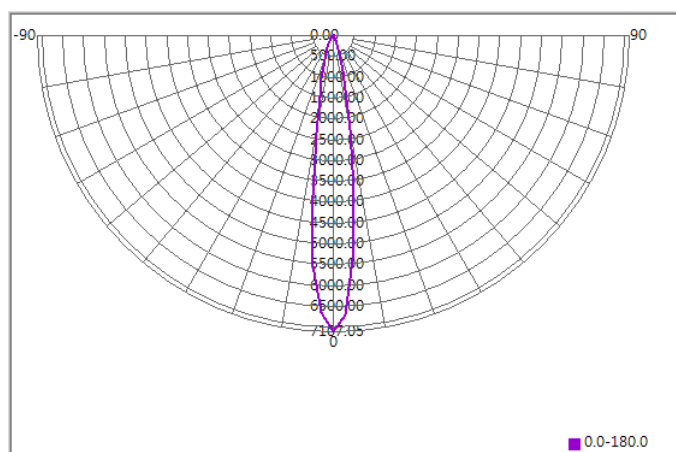




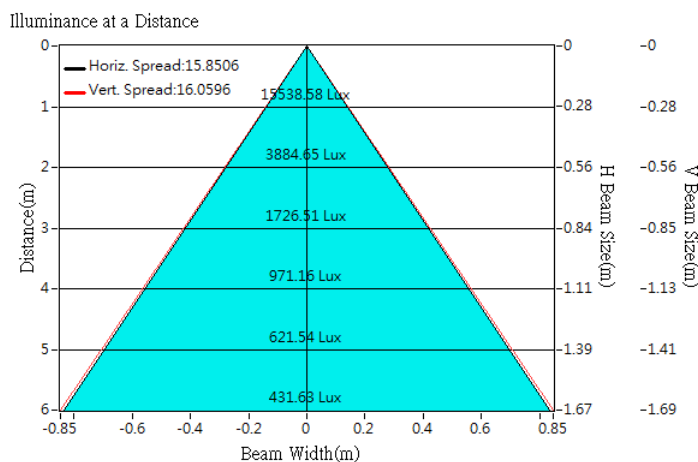
Optical Characteristics

Model Number	CKO-CH15-060027-4301		<p>"H" definition</p>
LED	CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	16°		
Field Angle (D10)	36°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2186 lm	Measured @ 16.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

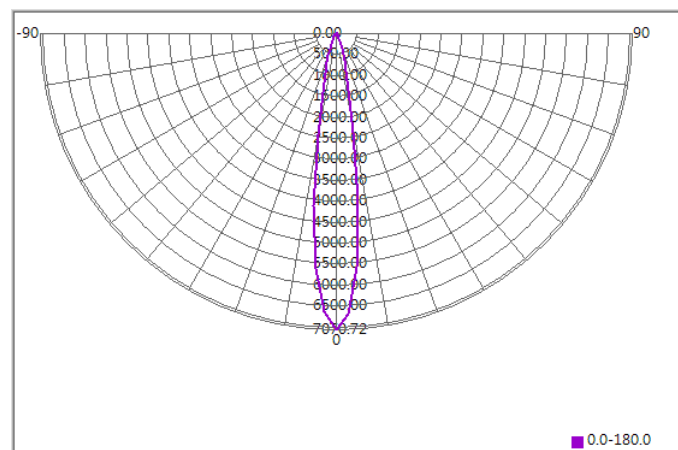




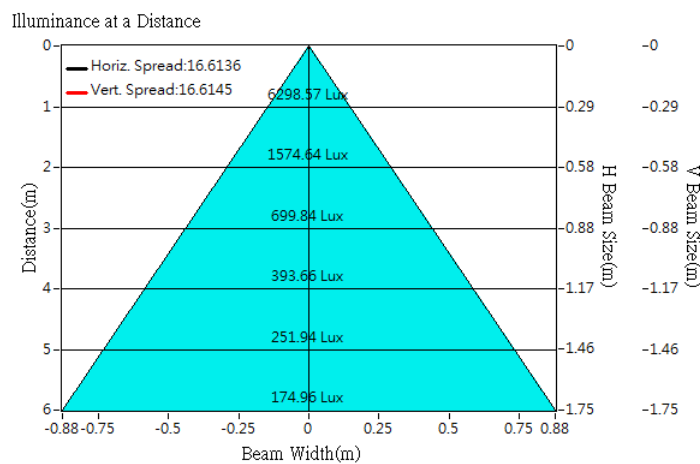
Optical Characteristics

Model Number	CKO-CH15-060027-4301		<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	16°		
Field Angle (D10)	35°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	890 lm	Measured @ 7.0 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

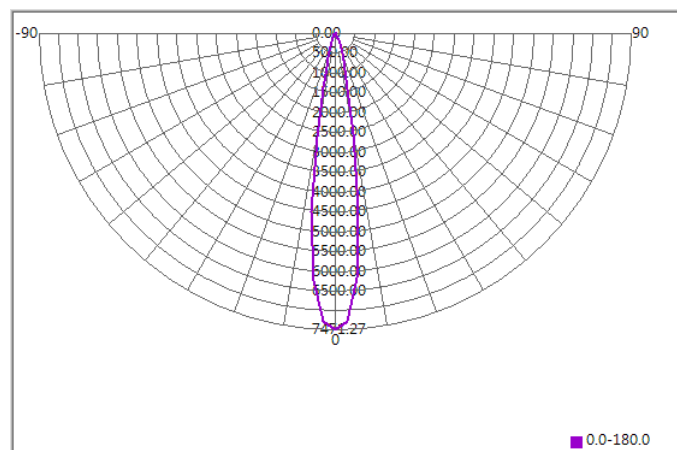




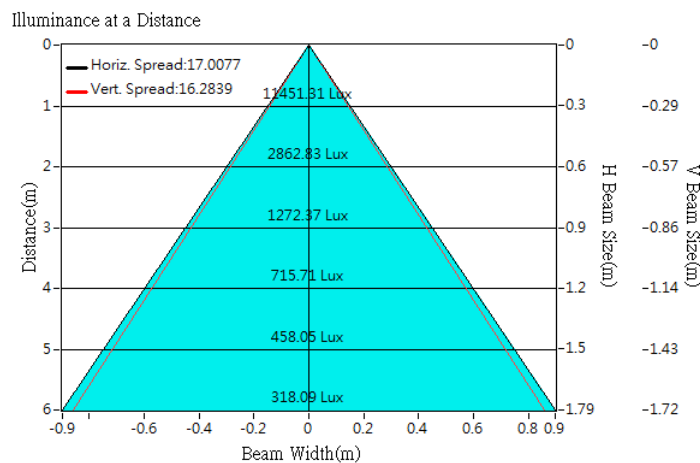
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p>	
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	17°		
Field Angle (D10)	33°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1532 lm		Measured @ 12.2 W
Material	PC / UL94V2		

cd/klm

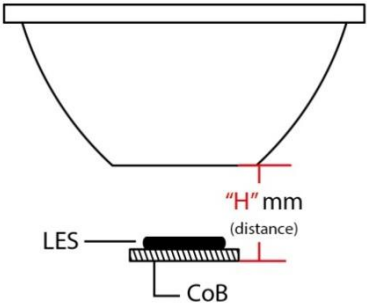


Illuminance At Distances

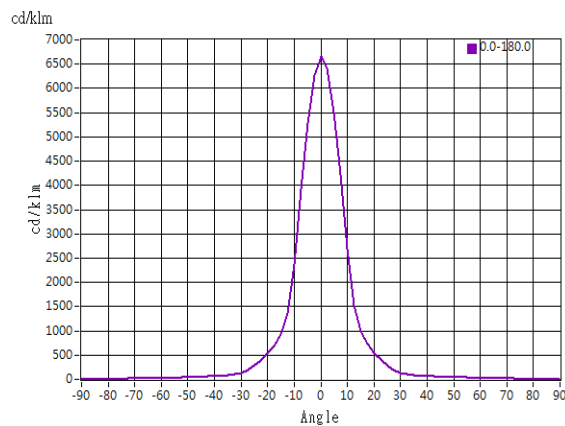




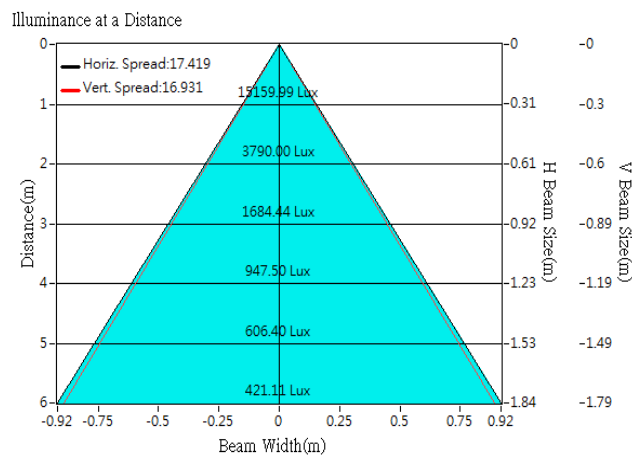
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p> 
LED	CMT1420	
LES / LED Size	Φ 9.8 mm	
FWHM (D50)	17°	
Field Angle (D10)	36°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2274 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

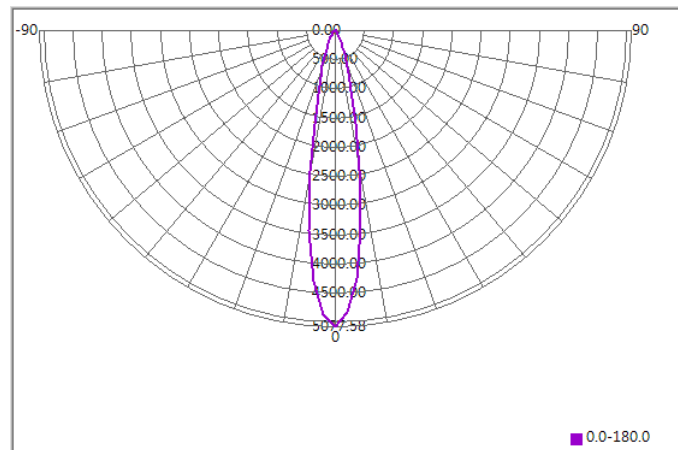




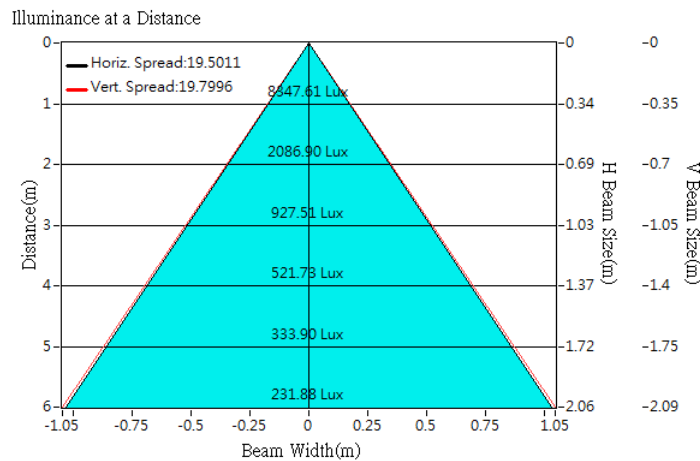
Optical Characteristics

Model Number	CKO-CH15-060027-4301		<p>"H" definition</p>
LED	CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	19°		
Field Angle (D10)	41°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1644 lm	Measured @ 16.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

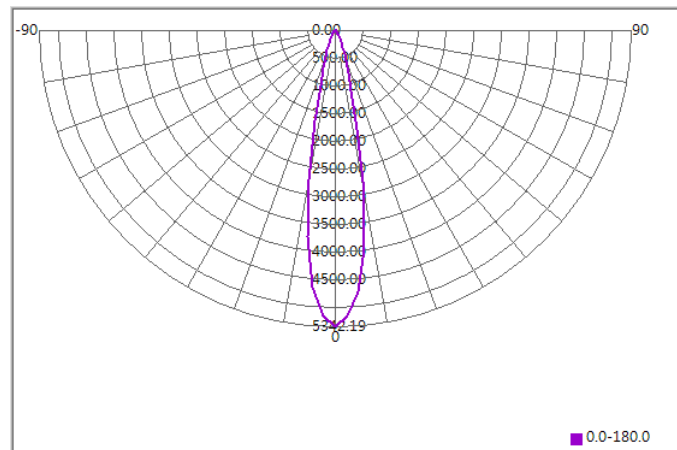




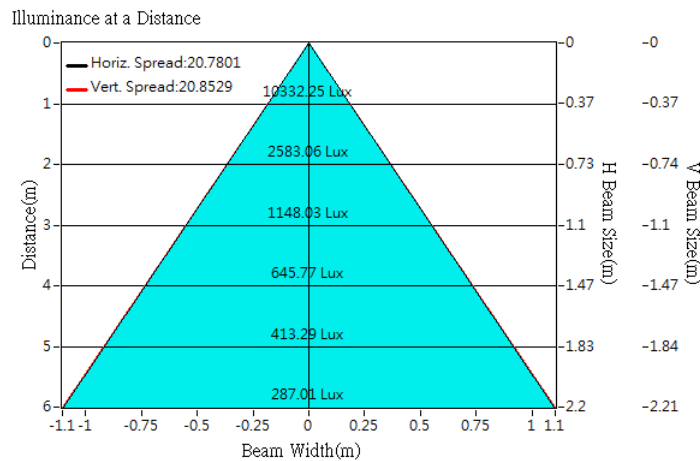
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p>	
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	19°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1934 lm		Measured @ 15.6 W
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

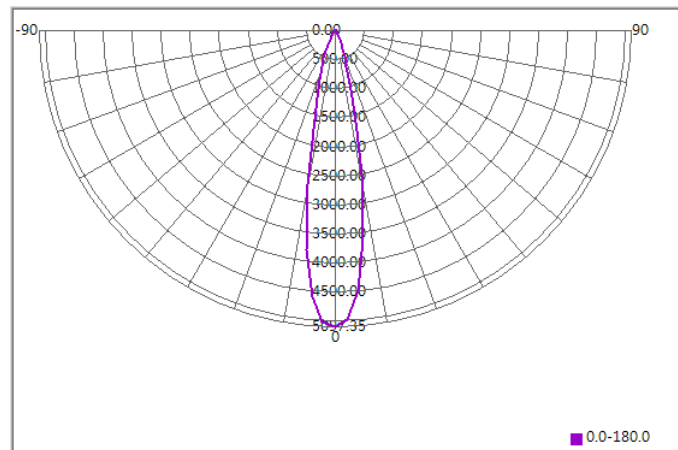




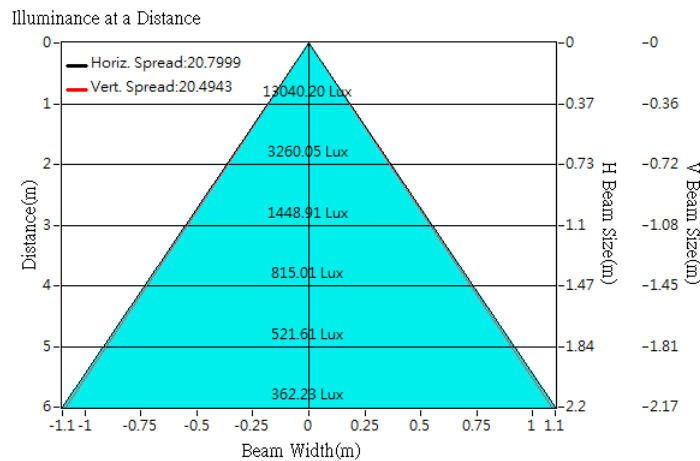
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p>
LED	CXA1820	
LES / LED Size	Φ 12 mm	
FWHM (D50)	21°	
Field Angle (D10)	42°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2558 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

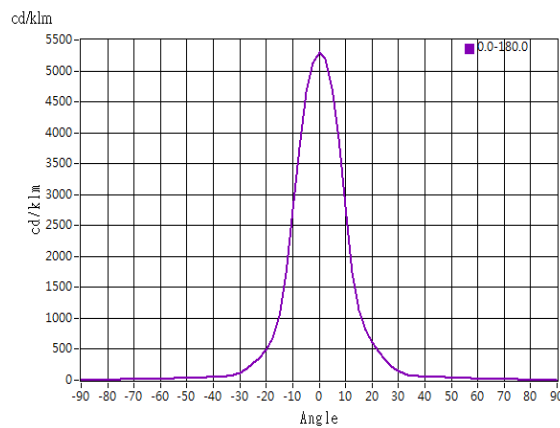




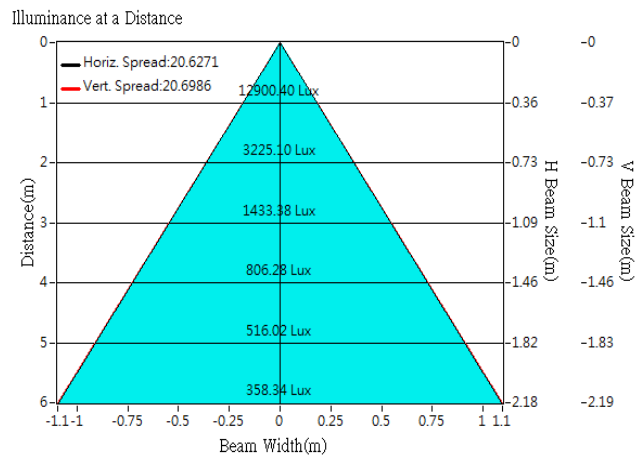
Optical Characteristics

Model Number	CKO-CH15-060027-4301		<p>"H" definition</p>
LED	CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	41°		
Field Angle (D10)	74°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2338 lm	Measured @ 19.7W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

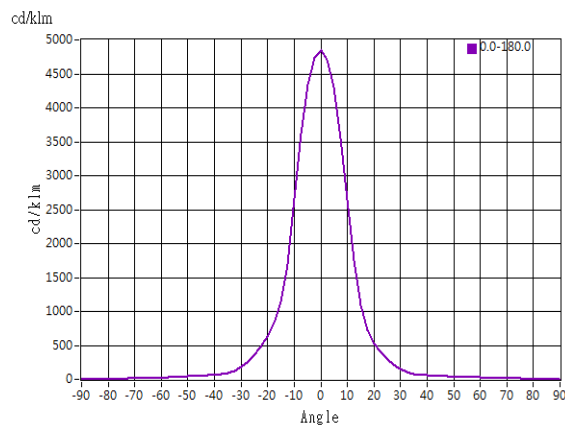




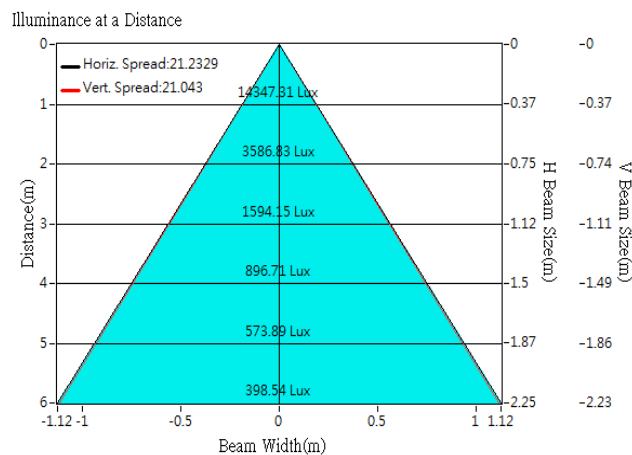
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p> <p>LES CoB</p>
LED	CMA1825	
LES / LED Size	Φ 12 mm	
FWHM (D50)	21°	
Field Angle (D10)	43°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2964 lm Measured @ 25.1 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

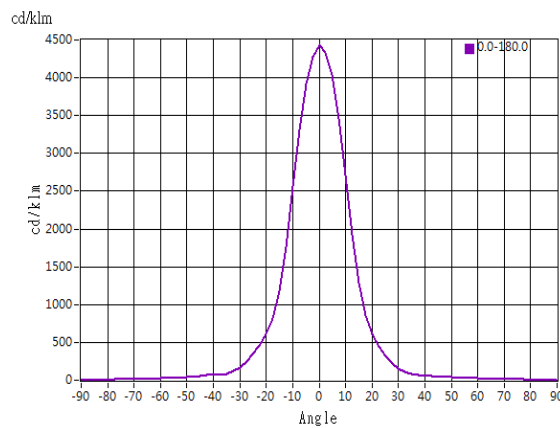




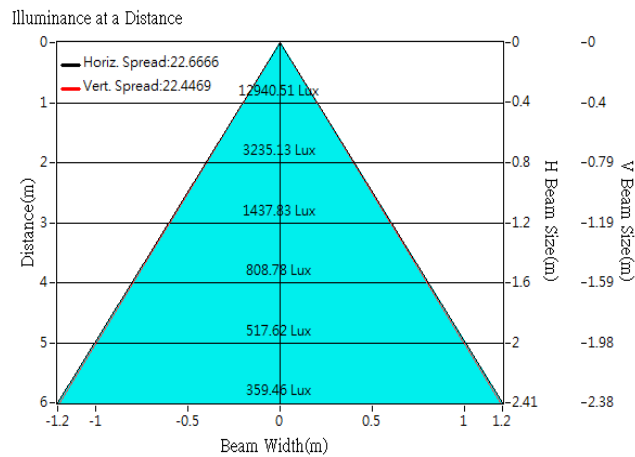
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p> <p>LES CoB</p>
LED	CXA1830	
LES / LED Size	Φ 14 mm	
FWHM (D50)	23°	
Field Angle (D10)	46°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	4426 lm Measured @ 28.9W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

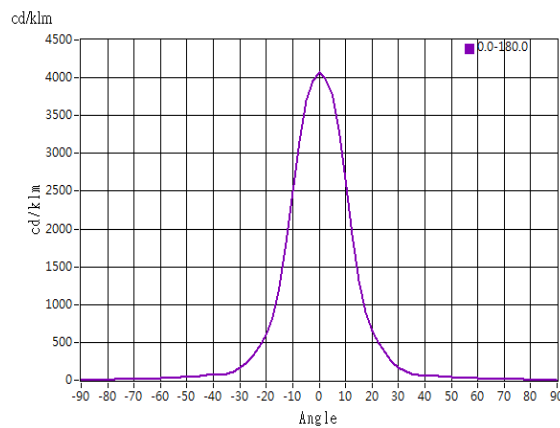




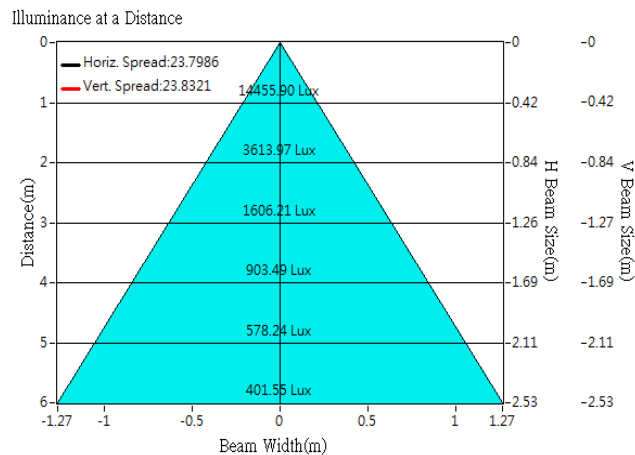
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p> <p>LES CoB</p>
LED	CXB1830	
LES / LED Size	Φ 14 mm	
FWHM (D50)	24°	
Field Angle (D10)	47°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	3550 lm Measured @ 28.4 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

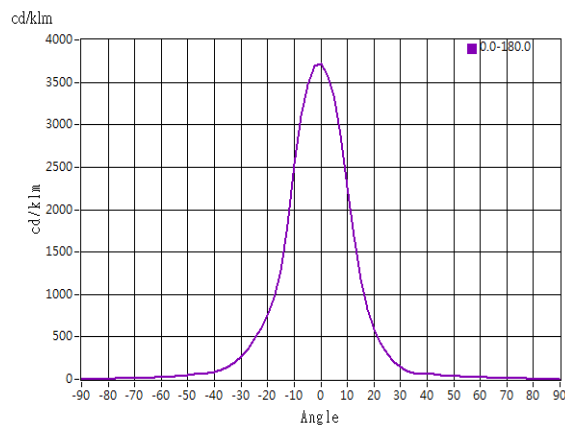




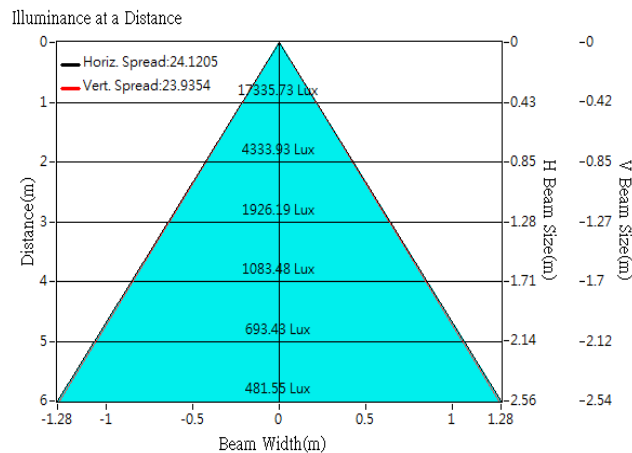
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p>
LED	CMA1840	
LES / LED Size	Φ 14 mm	
FWHM (D50)	24°	
Field Angle (D10)	60°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	4665 lm Measured @ 38.5 W	
Material	PC / UL94V2	

cd/klm

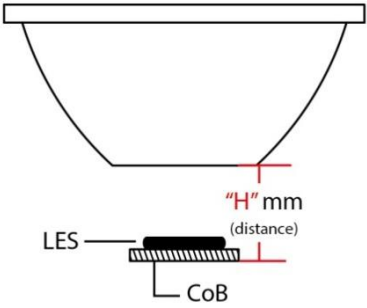


Illuminance At Distances

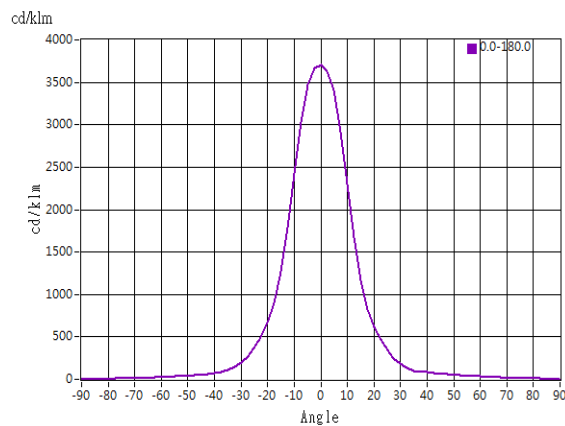




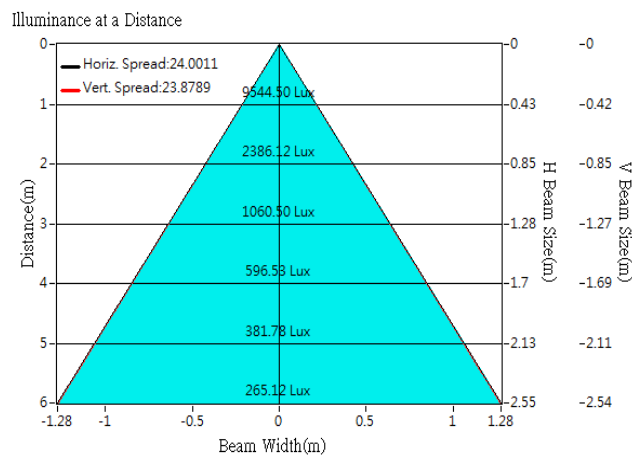
Optical Characteristics

Model Number	CKO-CH15-060027-4301		<p>"H" definition</p> 
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	24°		
Field Angle (D10)	49°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2573 lm	Measured @ 21.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

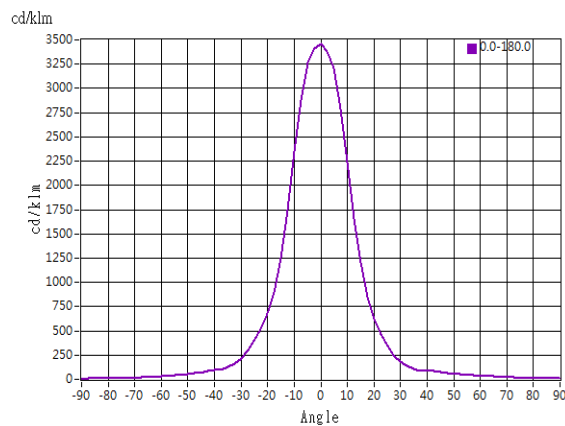




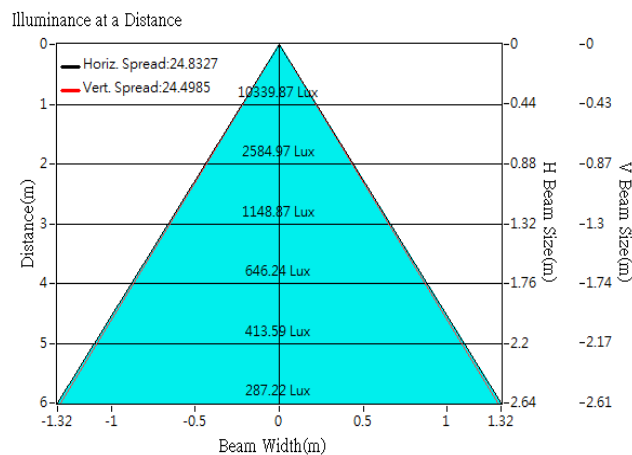
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p>
LED	CMT1925	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	25°	
Field Angle (D10)	51°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2994 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

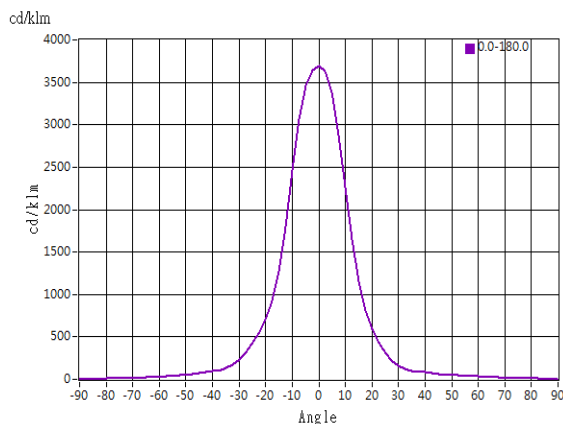




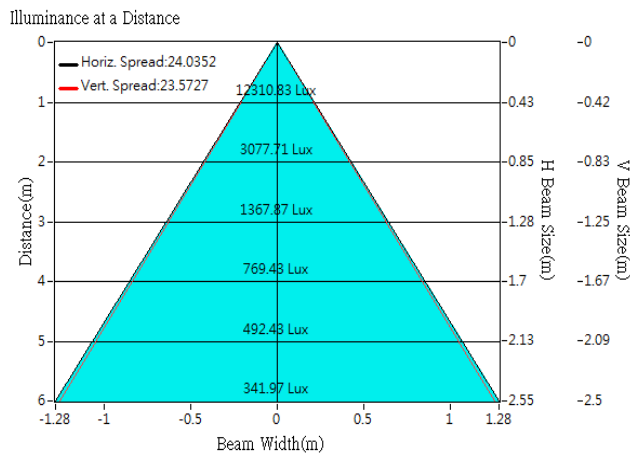
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1930	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	24°	
Field Angle (D10)	50°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	3339 lm Measured @ 29 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

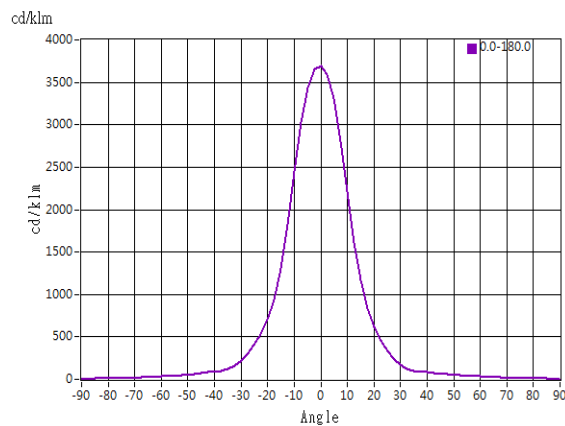




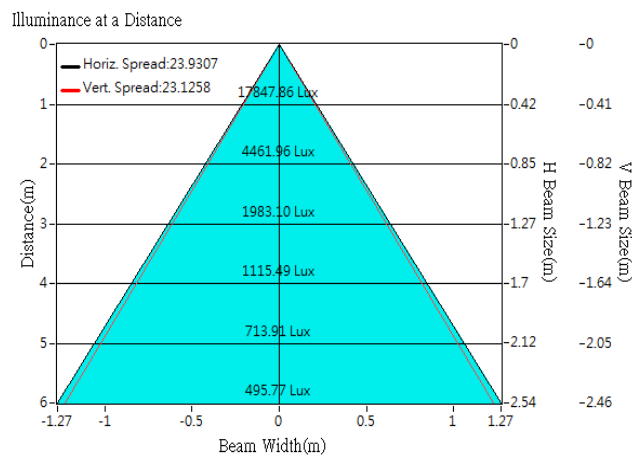
Optical Characteristics

Model Number	CKO-CH15-060027-4301	<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1945	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	24°	
Field Angle (D10)	50°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	4828 lm	
Material	PC / UL94V2	

cd/klm

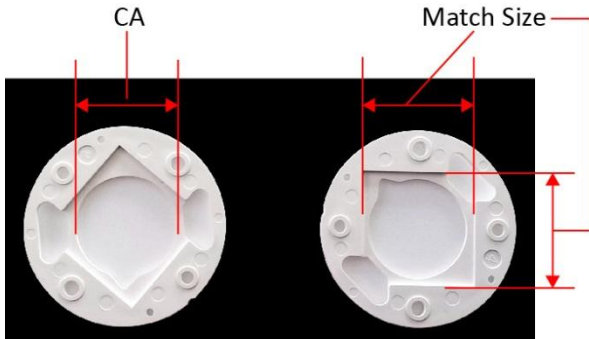


Illuminance At Distances





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