



Product Model Number

CKO-CH17-075041-0301

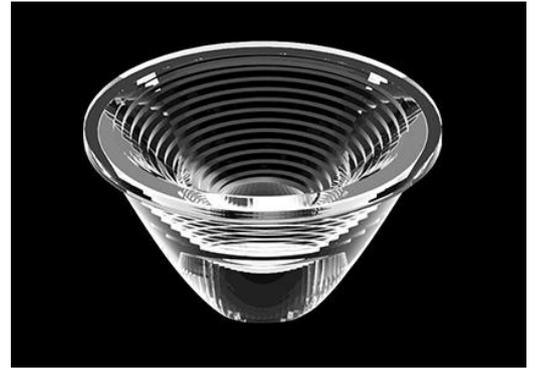
✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX



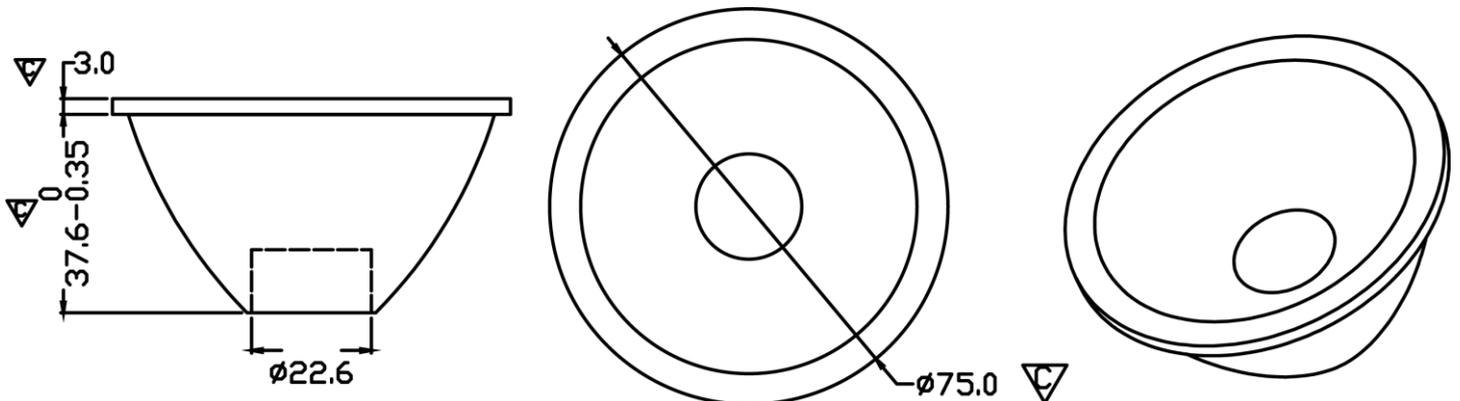
- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ 75 x 40.6



▽:Critical Dimension



✓ Optical Characteristics – Angle Performances

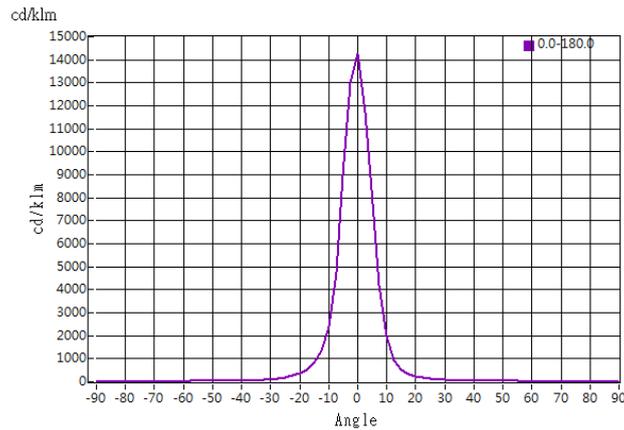
Cree	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1507	Φ9	11°	24°
CXB1507	Φ9	11°	25°
CXA1510	Φ9	12°	26°
CXA1512	Φ9	11°	25°
CXB1512	Φ9	11°	24°
CMA1516	Φ9	12°	24°
CXA1520	Φ9	11°	23°
CXB1520	Φ9	12°	25°
CMT1407	Φ9.8	12°	27°
CMT1412	Φ9.8	12°	26°
CMT1420	Φ9.8	13°	27°
CXA1816	Φ12	14°	30°
CXB1816	Φ12	15°	33°
CXA1820	Φ12	15°	33°
CXB1820	Φ12	15°	32°
CMA1825	Φ12	15°	33°
CXA1850	Φ12	14°	32°
CXA1830	Φ14	16°	34°
CXB1830	Φ14	17°	37°
CMA1840	Φ14	17°	37°
CMT1922	Φ14.5	17°	38°
CMT1925	Φ14.5	18°	39°
CMT1930	Φ14.5	17°	38°
CMT1945	Φ14.5	17°	38°



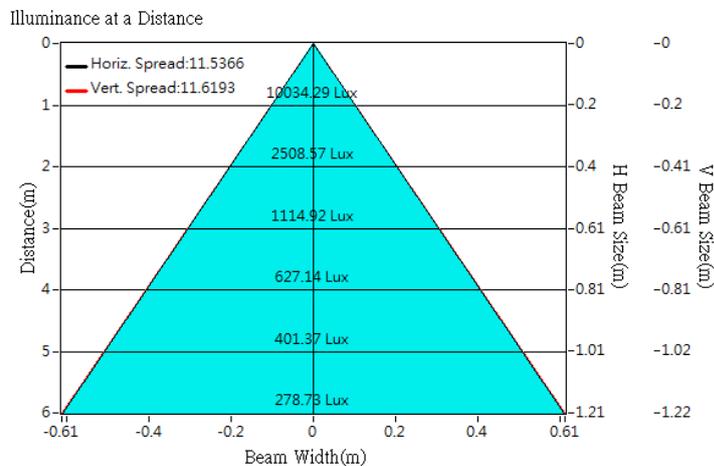
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	11°		
Field Angle (D10)	24°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	703 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

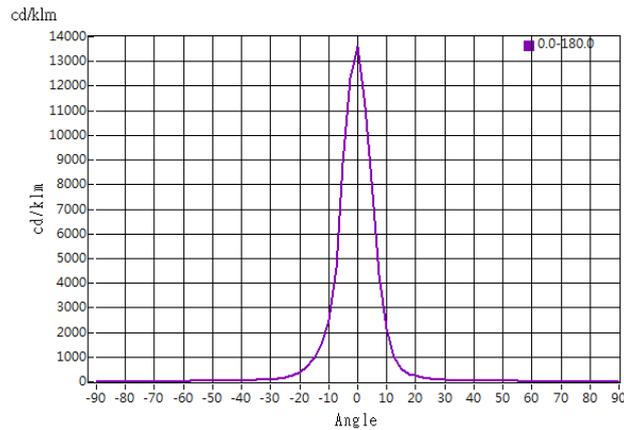




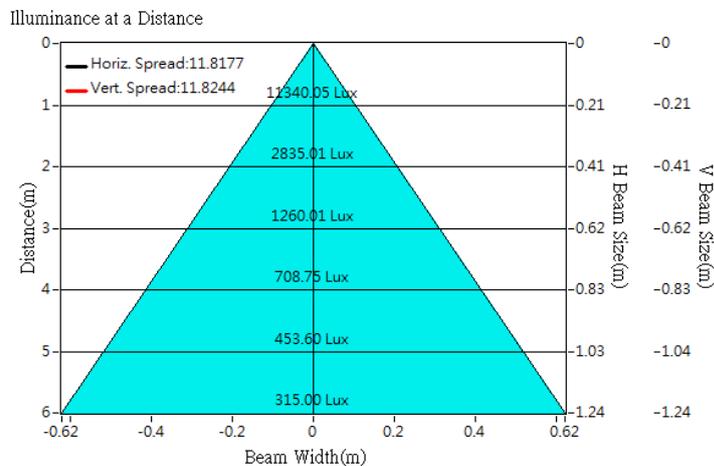
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXB1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	11°		
Field Angle (D10)	25°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	833 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

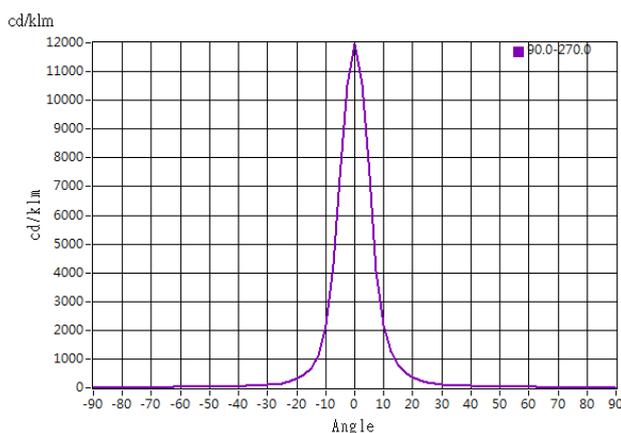




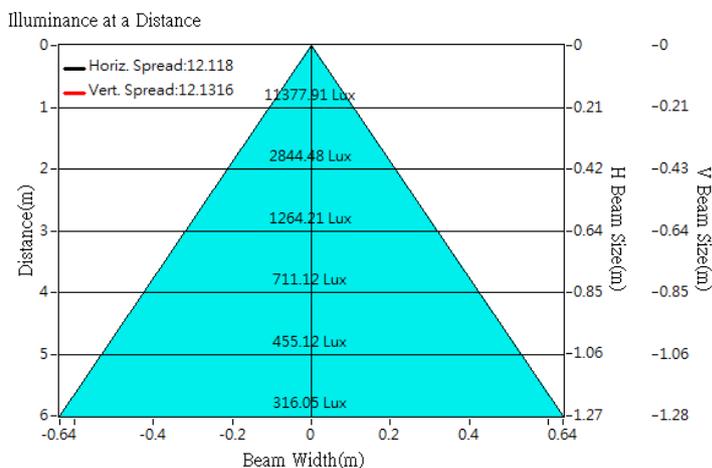
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXA1510		
LES / LED Size	Φ 9 mm		
FWHM (D50)	12°		
Field Angle (D10)	26°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	950 lm	Measured @ 9.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

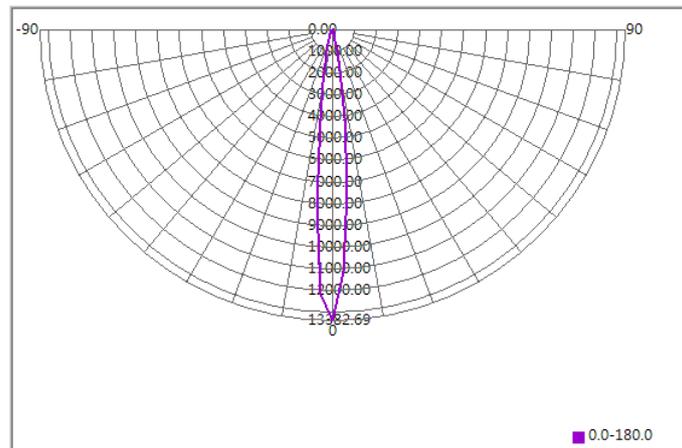




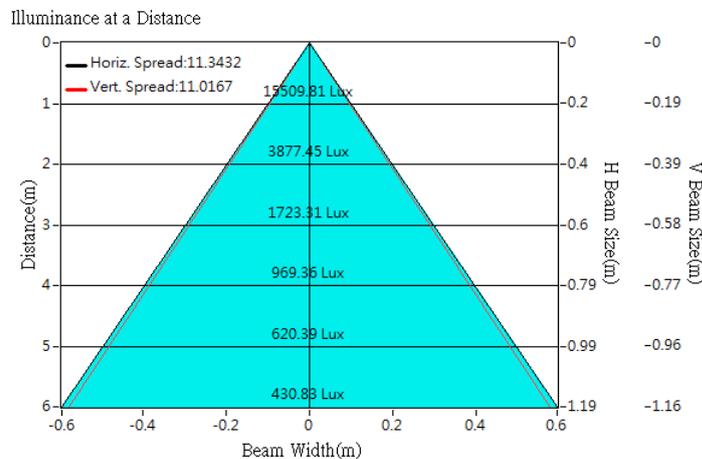
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXA1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	11°		
Field Angle (D10)	25°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	1158 lm	Measured @ 13.2 W	
Material	PC / UL94V2		

cd/klm

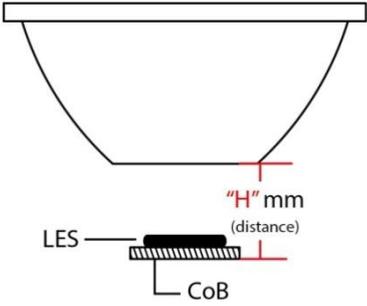


Illuminance At Distances

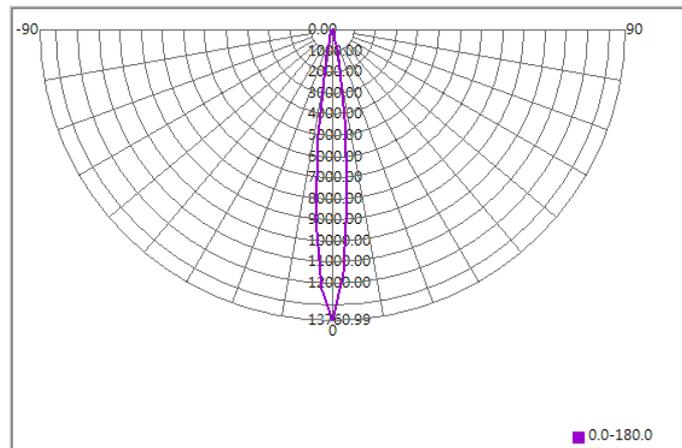




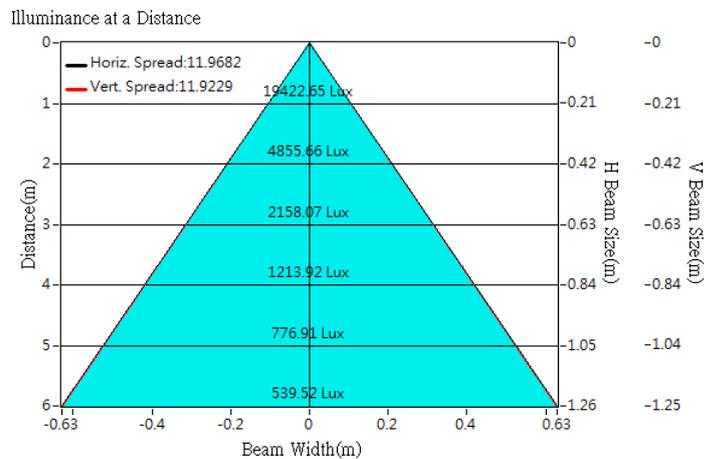
Optical Characteristics

Model Number	CKO-CH17-075041-0301	<p>"H" definition</p> 	
LED	CXB1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	11°		
Field Angle (D10)	24°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	1411 lm		Measured @ 11.9 W
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

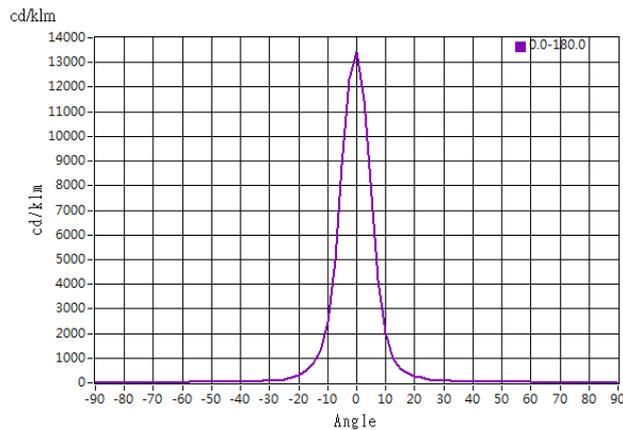




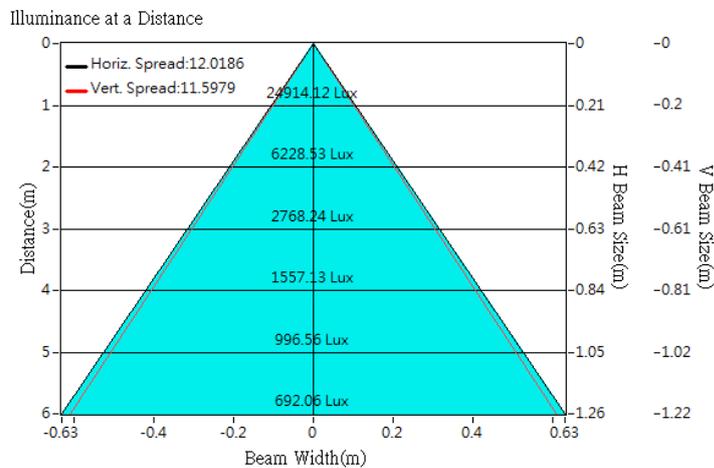
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CMA1516		
LES / LED Size	Φ 9 mm		
FWHM (D50)	12°		
Field Angle (D10)	24°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	1856 lm	Measured @ 15.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

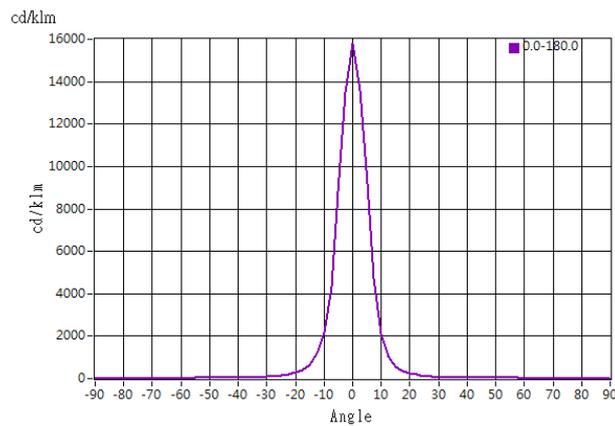




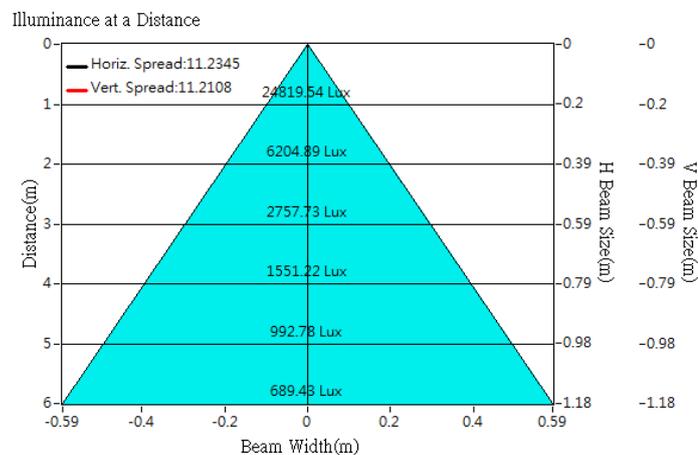
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXA1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	11°		
Field Angle (D10)	23°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	1571 lm	Measured @ 18.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

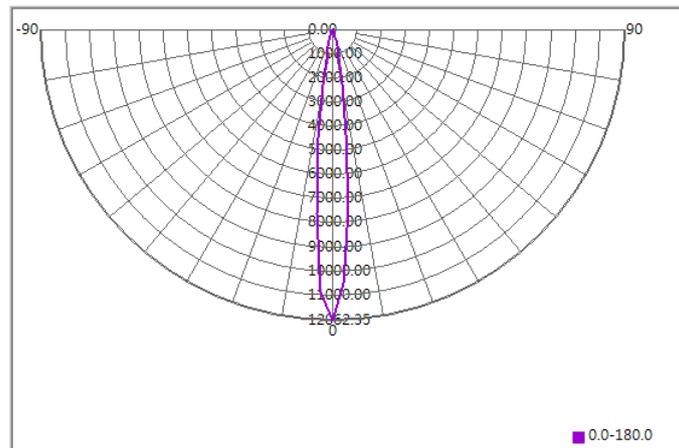




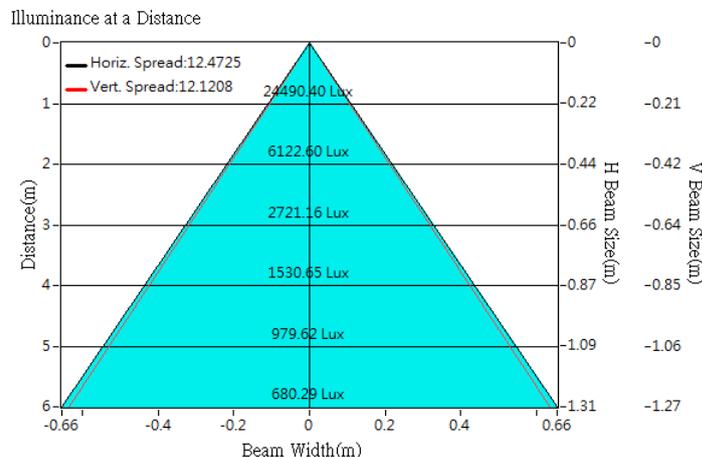
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	12°		
Field Angle (D10)	25°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	2030 lm	Measured @ 16.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

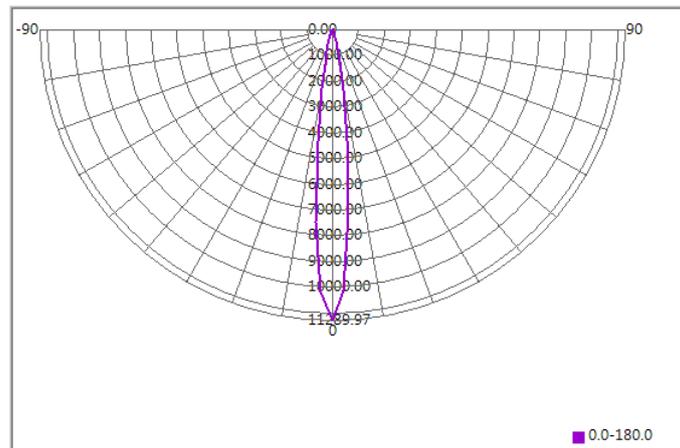




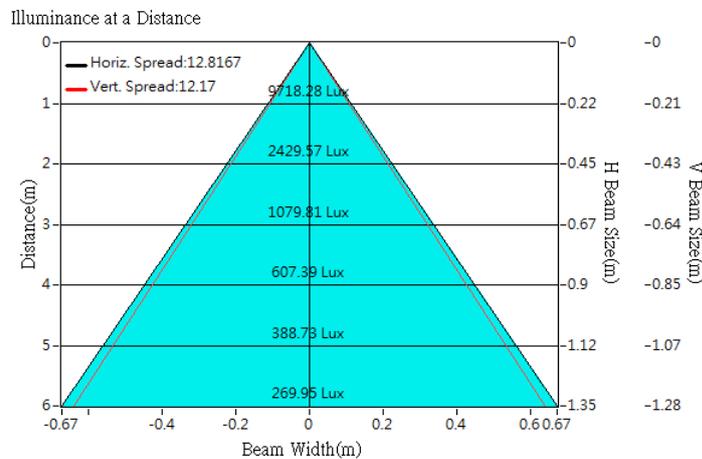
Optical Characteristics

Model Number	CKO-CH17-075041-0301	<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1407	
LES / LED Size	Φ 9.8 mm	
FWHM (D50)	12°	
Field Angle (D10)	27°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=40.6 mm	
Luminous Flux	860 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

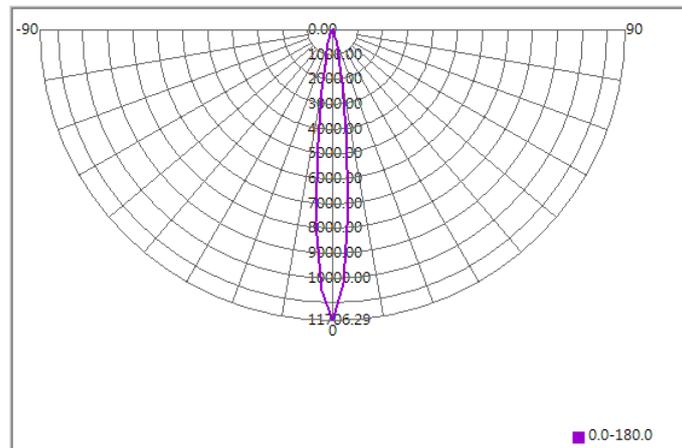




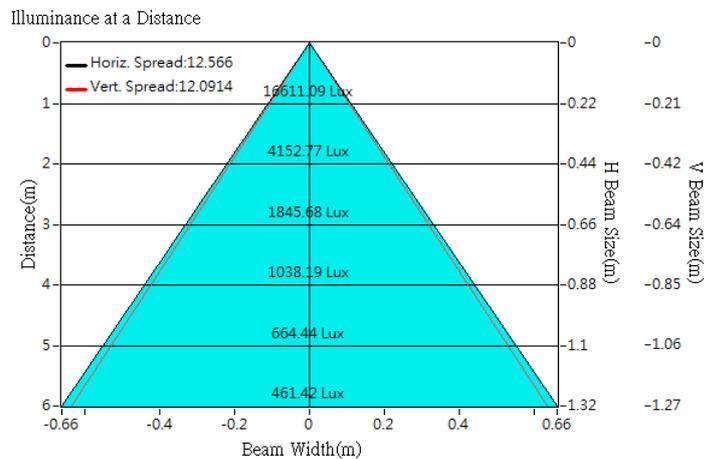
Optical Characteristics

Model Number	CKO-CH17-075041-0301	<p>"H" definition</p> <p>LES CoB</p>	
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	12°		
Field Angle (D10)	26°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	1418 lm		Measured @ 12.6 W
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

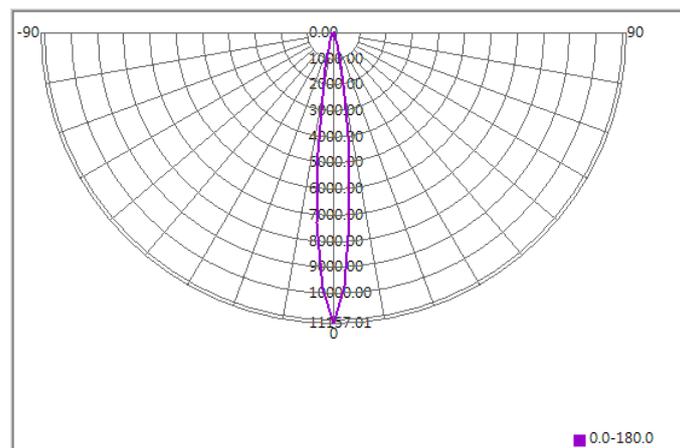




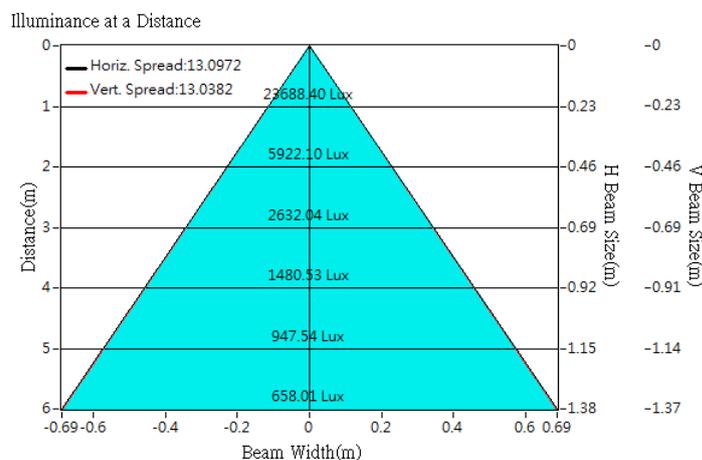
Optical Characteristics

Model Number	CKO-CH17-075041-0301	<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1420	
LES / LED Size	Φ 9.8 mm	
FWHM (D50)	13°	
Field Angle (D10)	27°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=40.6 mm	
Luminous Flux	2123 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

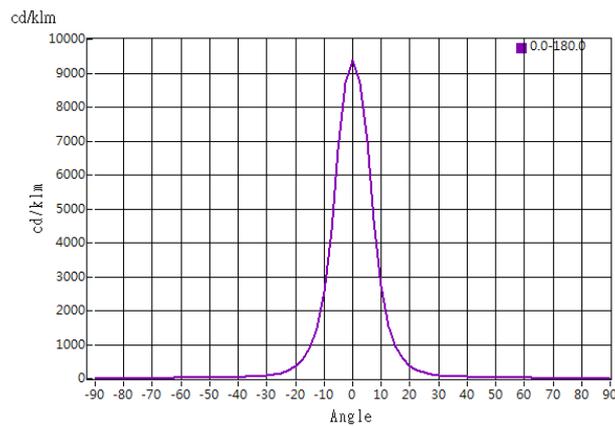




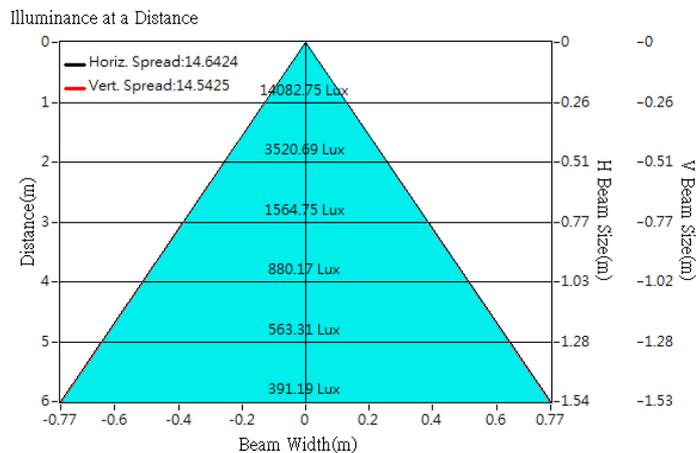
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	14°		
Field Angle (D10)	30°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	1499 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

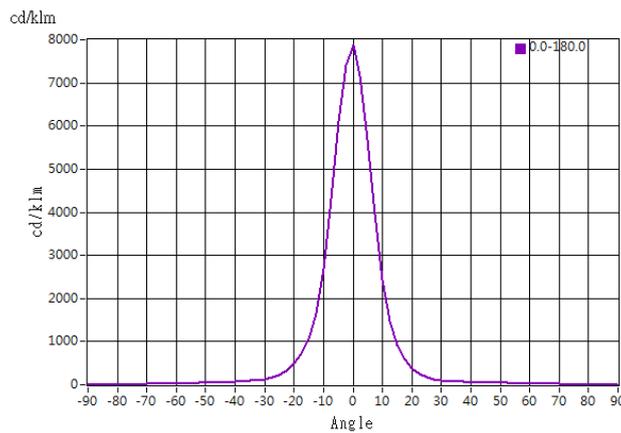




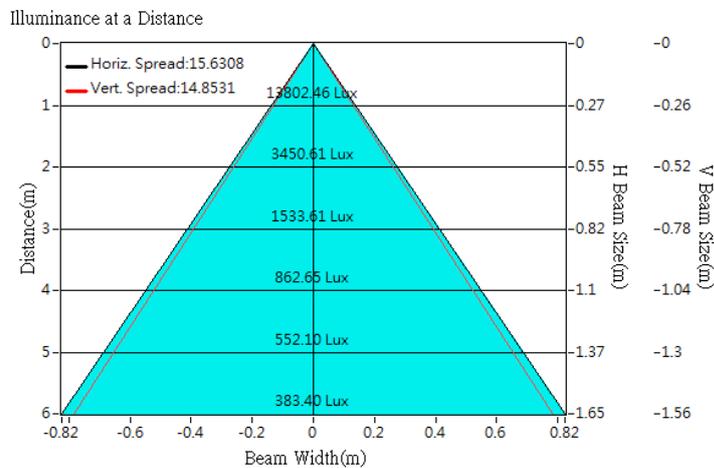
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	15°		
Field Angle (D10)	33°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	1753 lm	Measured @ 15.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

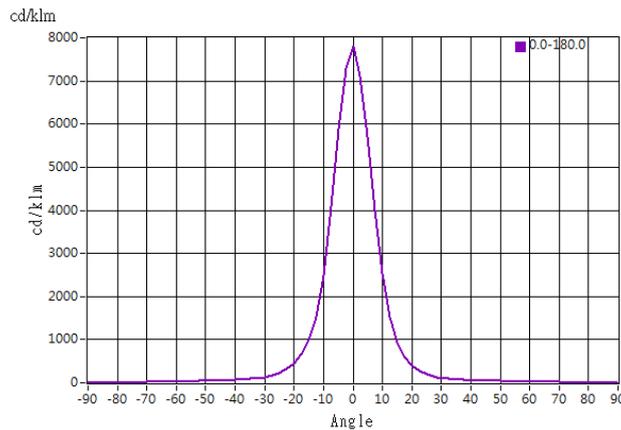




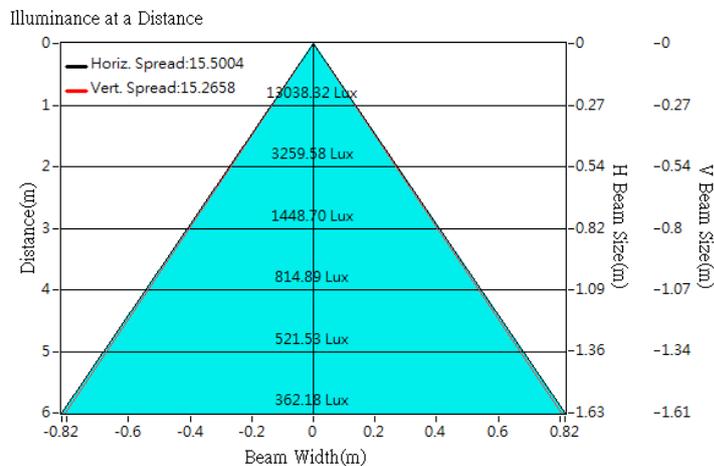
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	15°		
Field Angle (D10)	33°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	1673 lm	Measured @ 19.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

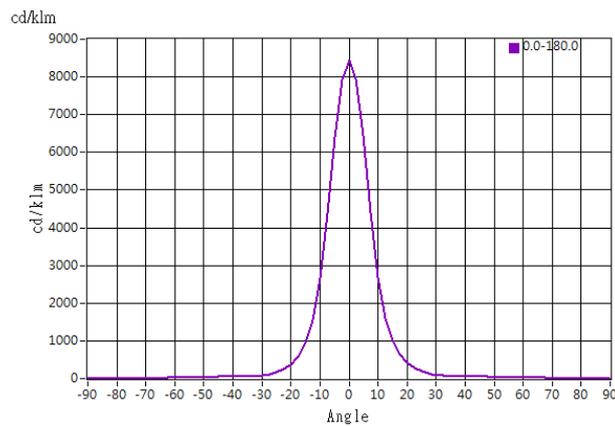




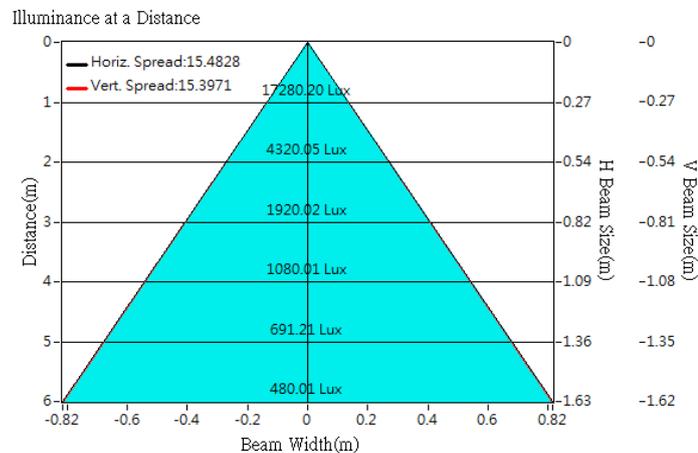
Optical Characteristics

Model Number	CKO-CH17-075041-0301	<p>"H" definition</p> <p>LES CoB</p>
LED	CXB1820	
LES / LED Size	Φ 12 mm	
FWHM (D50)	15°	
Field Angle (D10)	32°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=40.6 mm	
Luminous Flux	2044 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

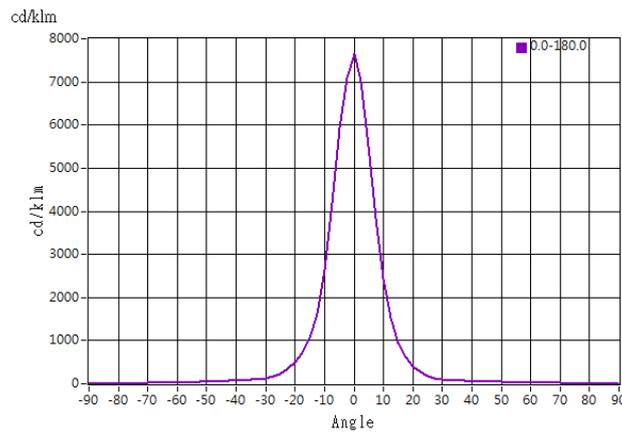




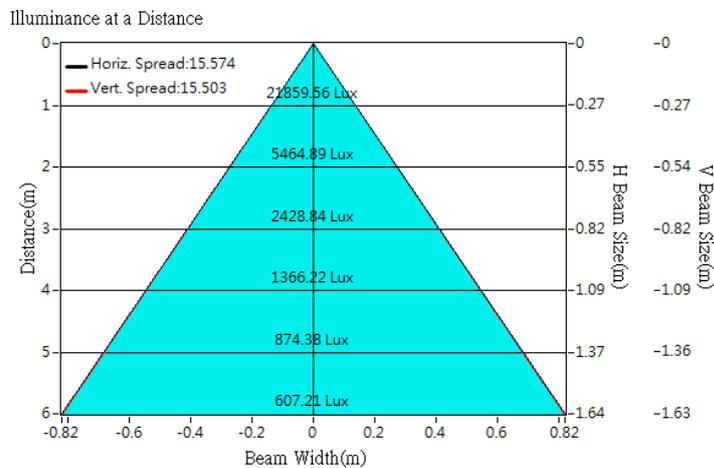
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	15°		
Field Angle (D10)	33°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	2852 lm	Measured @ 24.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

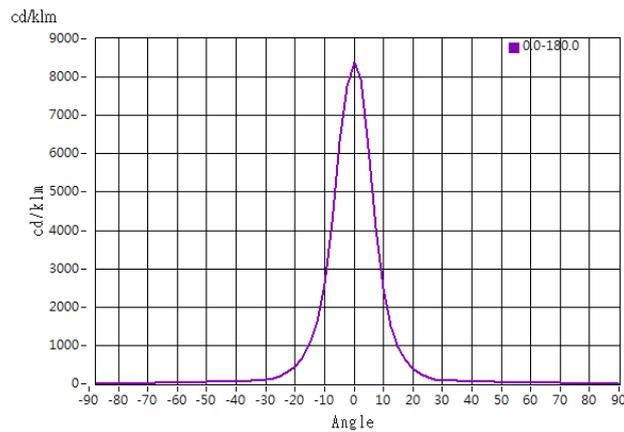




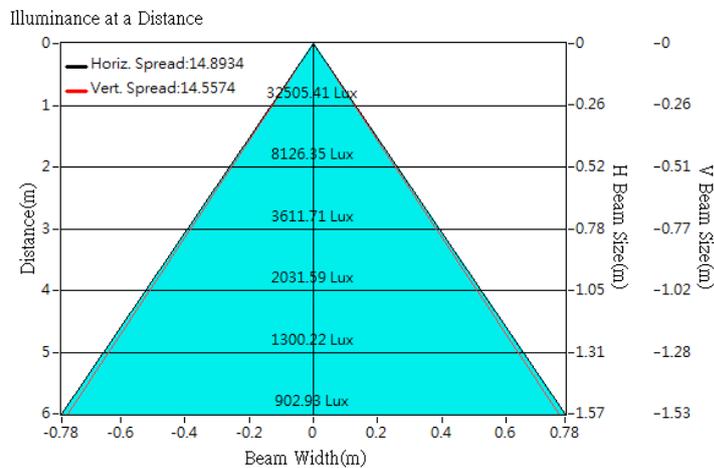
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXA1850		
LES / LED Size	Φ 12 mm		
FWHM (D50)	14°		
Field Angle (D10)	32°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	3874 lm	Measured @ 50.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

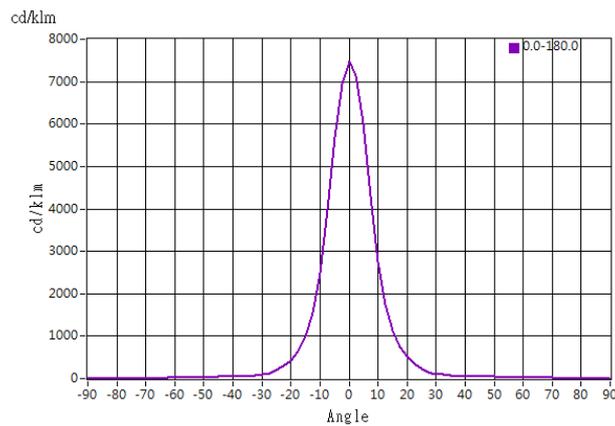




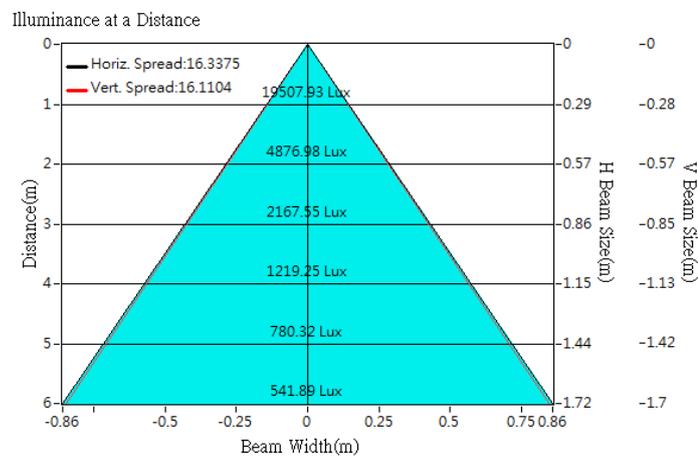
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p> <p>LES CoB</p>
LED	CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	16°		
Field Angle (D10)	34°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	2611 lm	Measured @ 30.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

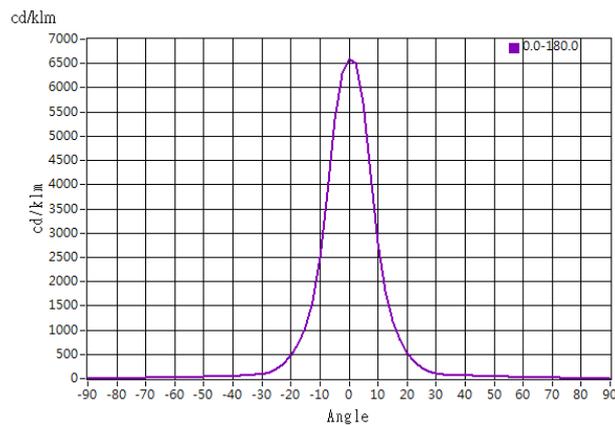




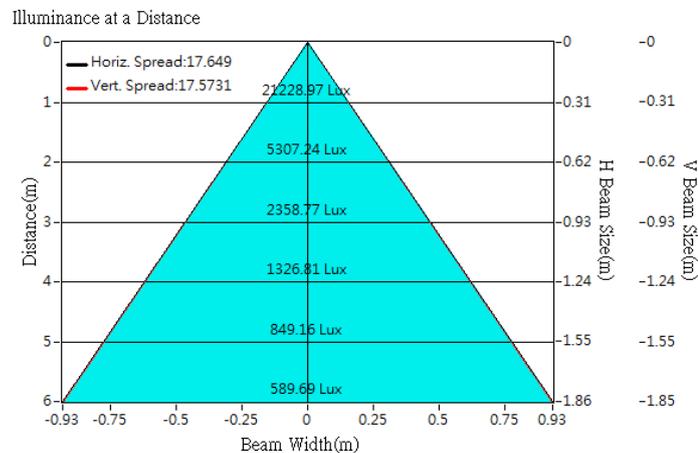
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	17°		
Field Angle (D10)	37°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	3222 lm	Measured @ 28.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

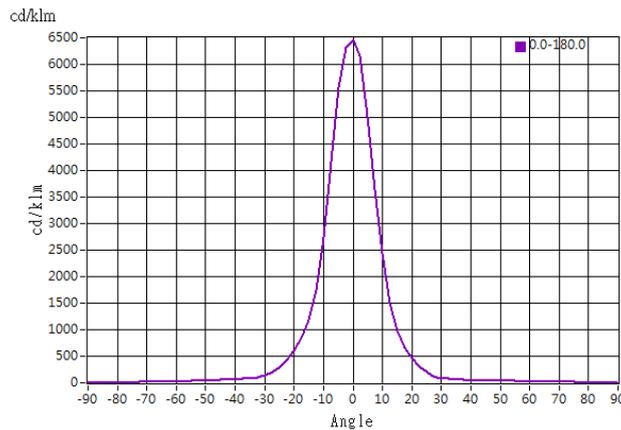




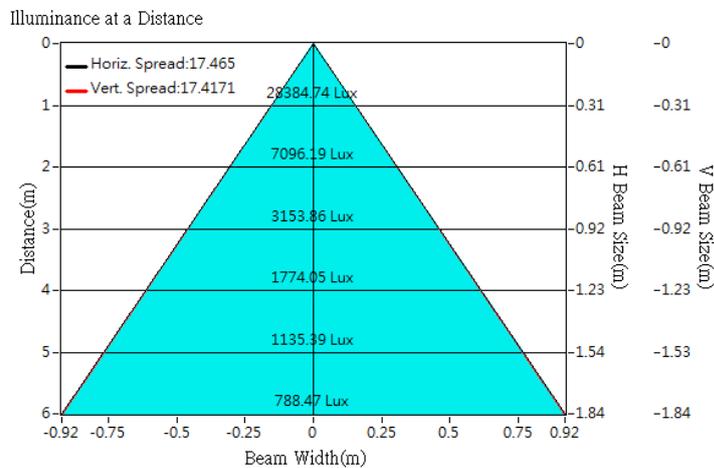
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	17°		
Field Angle (D10)	37°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	4393 lm	Measured @ 40.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

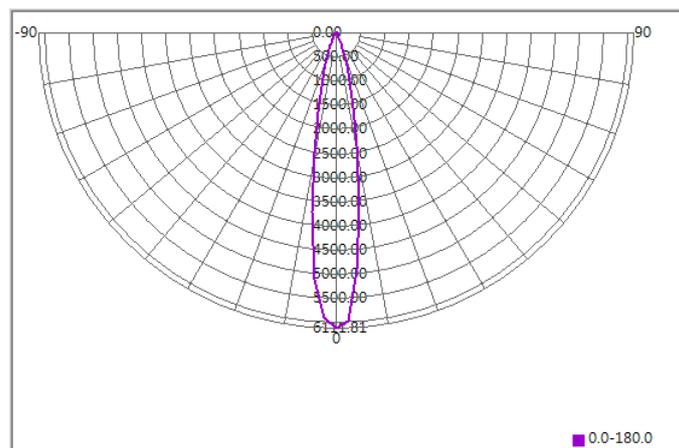




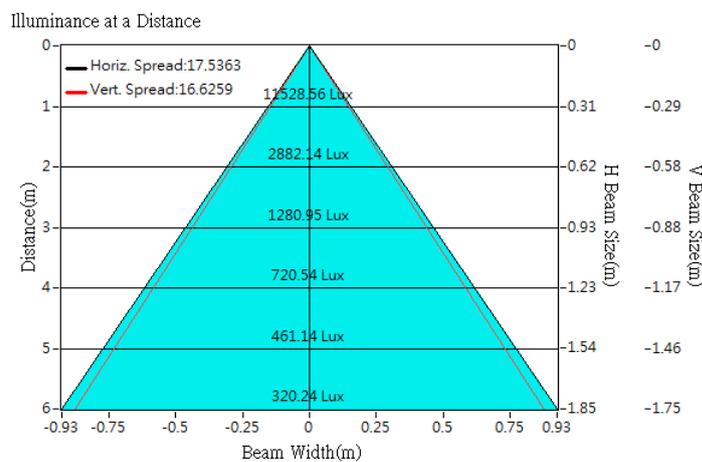
Optical Characteristics

Model Number	CKO-CH17-075041-0301	<p>"H" definition</p> <p>LES CoB</p>	
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	17°		
Field Angle (D10)	38°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	1886 lm		Measured @ 15.8 W
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

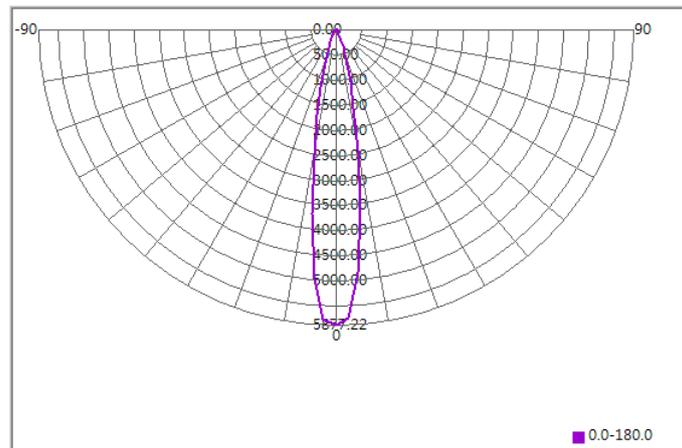




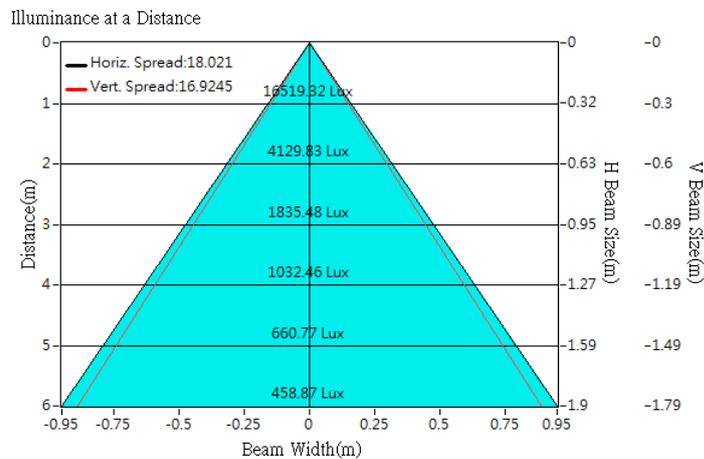
Optical Characteristics

Model Number	CKO-CH17-075041-0301	<p>"H" definition</p>
LED	CMT1925	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	18°	
Field Angle (D10)	39°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=40.6 mm	
Luminous Flux	2810 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

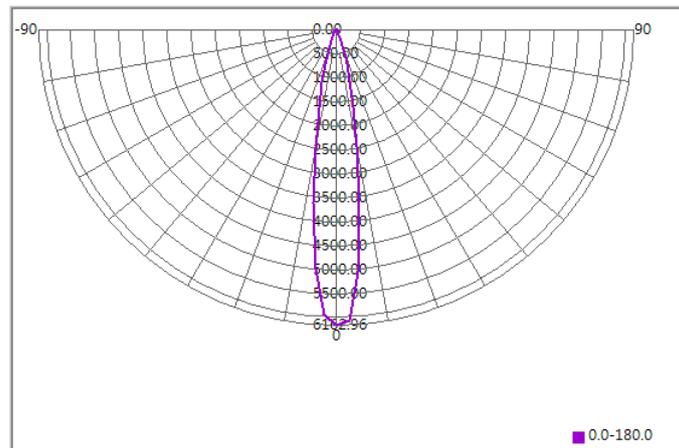




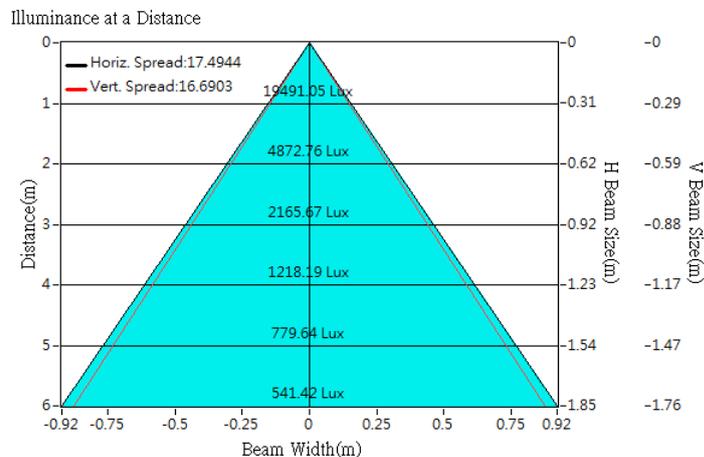
Optical Characteristics

Model Number	CKO-CH17-075041-0301	<p>"H" definition</p>
LED	CMT1930	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	17°	
Field Angle (D10)	38°	
H (distance)	3.65mm	
Dimension	Φ =75 mm, Thickness=40.6 mm	
Luminous Flux	3162 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

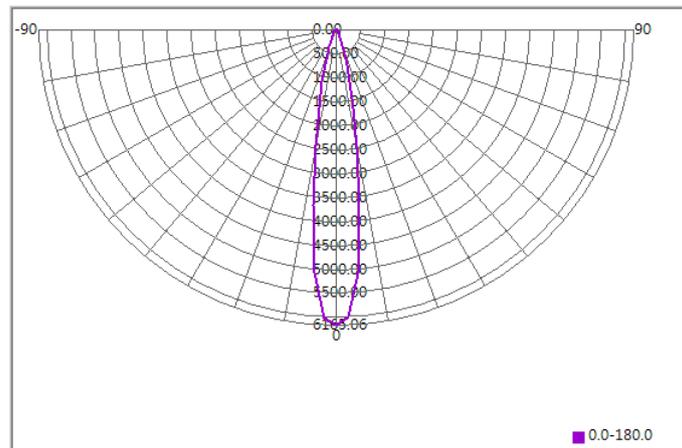




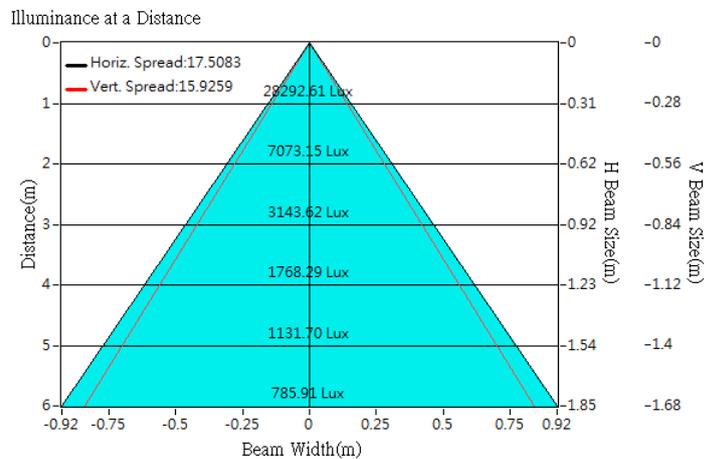
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CMT1945		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	17°		
Field Angle (D10)	38°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	4589 lm	Measured @ 43.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

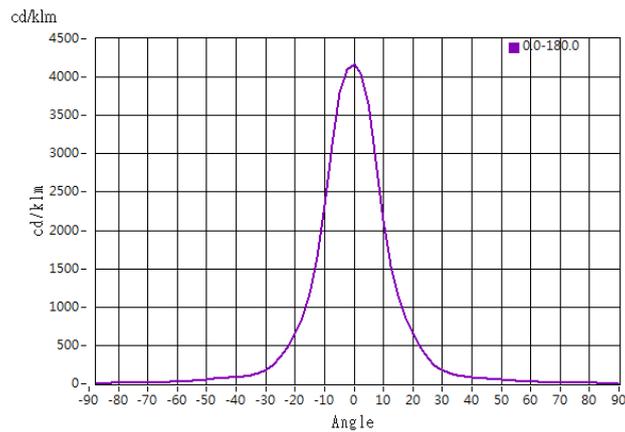




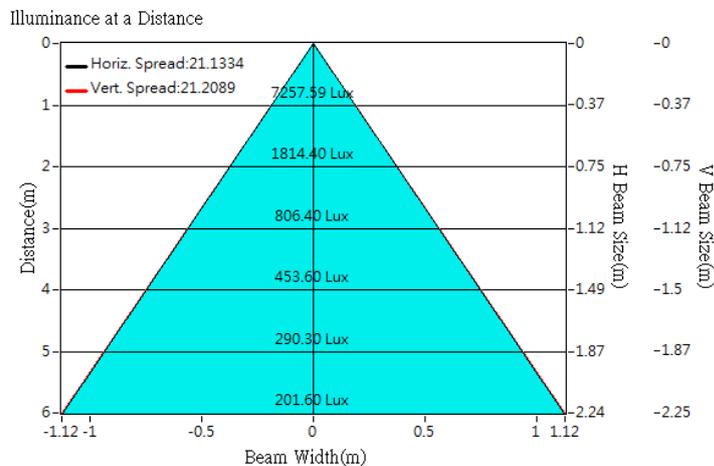
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXA2520		
LES / LED Size	Φ 19 mm		
FWHM (D50)	21°		
Field Angle (D10)	47°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	1743 lm	Measured @ 20.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

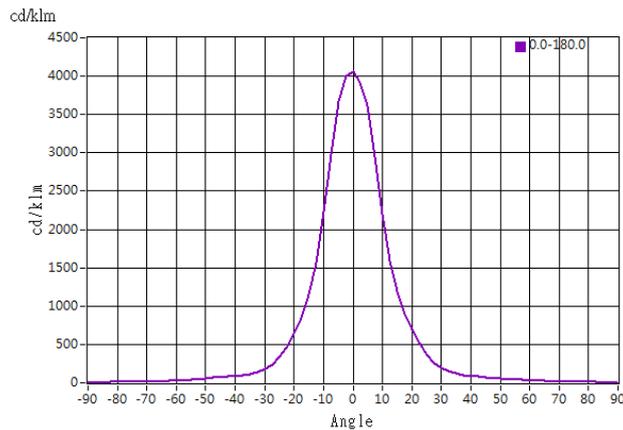




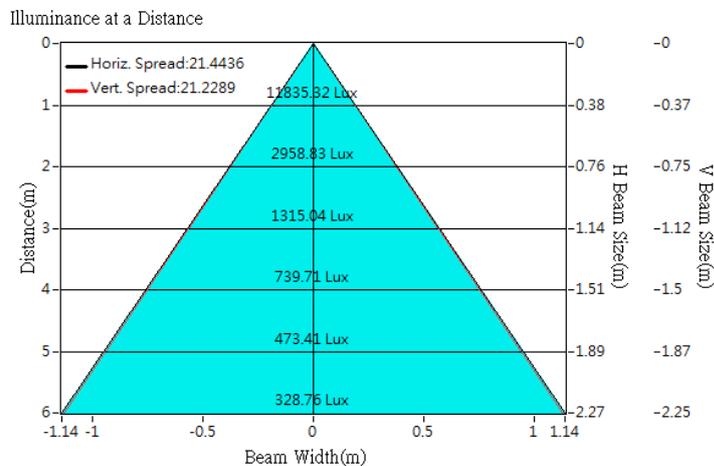
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CXB2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	21°		
Field Angle (D10)	48°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	2913 lm	Measured @ 28.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

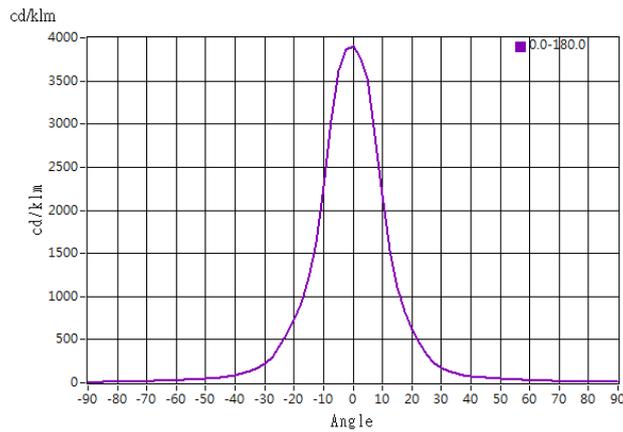




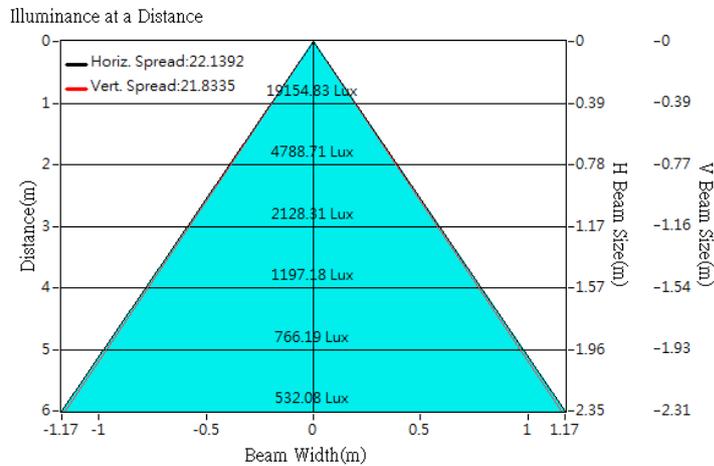
Optical Characteristics

Model Number	CKO-CH17-075041-0301		<p>"H" definition</p>
LED	CMA2550		
LES / LED Size	Φ 19 mm		
FWHM (D50)	22°		
Field Angle (D10)	49°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=40.6 mm		
Luminous Flux	4911 lm	Measured @ 42.5 W	
Material	PC / UL94V2		

cd/klm

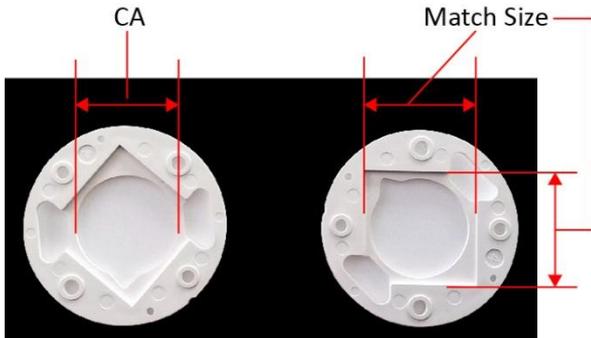


Illuminance At Distances





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