



Product Model Number

CKO-CH17-060033-0205

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

(A)

(B)

(C)

(D)

(E)

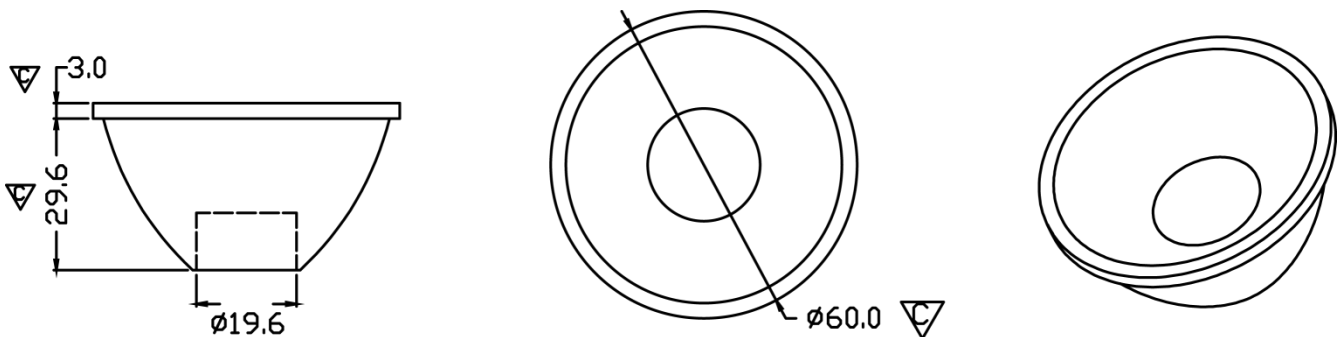


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ 60 x 32.6



▽:Critical Dimension



✓ Optical Characteristics – Angle Performances

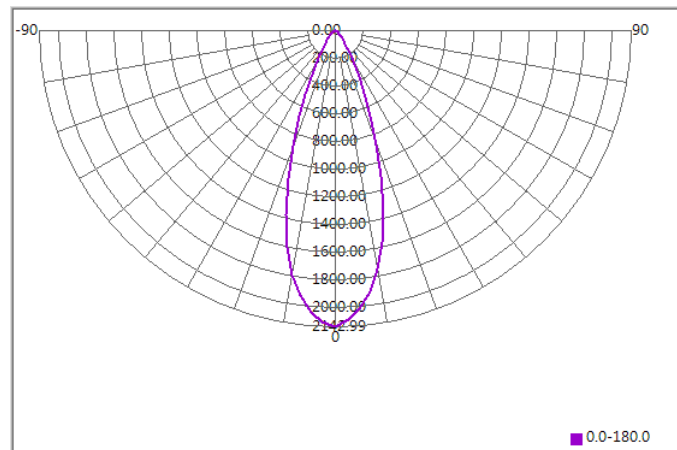
Cree	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1507	Φ9	36°	65°
CXA1510	Φ9	36°	65°
CXA1512	Φ9	36°	64°
CXB1512	Φ9	36°	64°
CMA1516	Φ9	36°	64°
CXB1520	Φ9	35°	63°
CMT1407	Φ9.8	34°	63°
CMT1412	Φ9.8	35°	64°
CMT1420	Φ9.8	35°	64°
CXA1816	Φ12	39°	70°
CXB1816	Φ12	37°	68°
CXB1820	Φ12	38°	68°
CMA1825	Φ12	38°	69°
CXA1830	Φ14	39°	71°
CXB1830	Φ14	40°	72°
CMA1840	Φ14	39°	71°
CMT1922	Φ14.5	39°	72°
CMT1925	Φ14.5	40°	73°
CMT1930	Φ14.5	39°	71°
CMT1945	Φ14.5	39°	72°



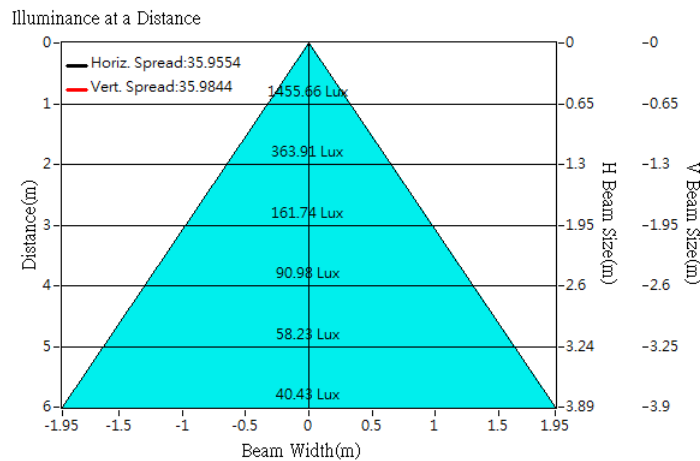
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p> <p>LES CoB</p>
LED	CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	36°		
Field Angle (D10)	65°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	679 lm	Measured @7.6 W	
Material	PC / UL94V2		

cd/klm

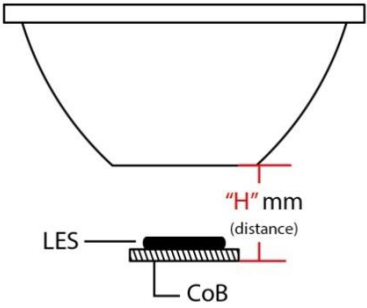


Illuminance At Distances

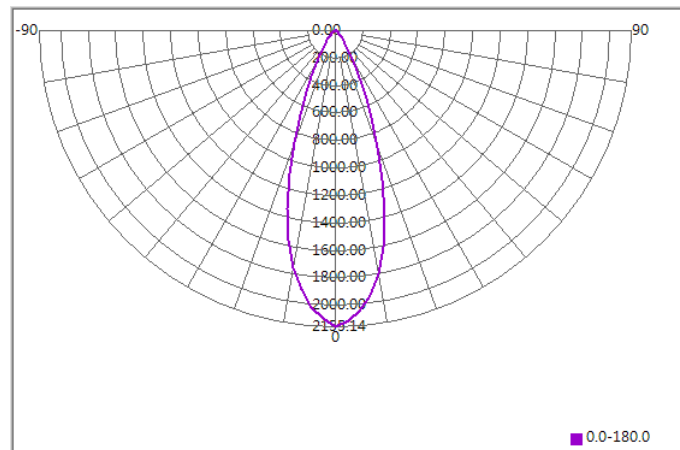




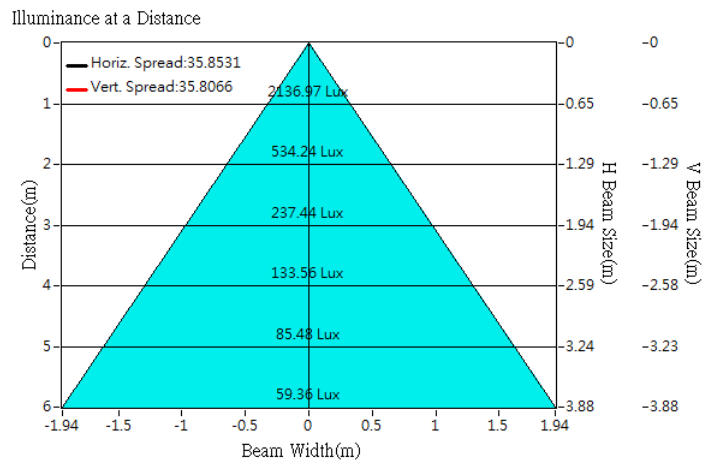
Optical Characteristics

Model Number	CKO-CH17-060033-0205	<p>"H" definition</p> 
LED	CXA1510	
LES / LED Size	Φ 9 mm	
FWHM (D50)	36°	
Field Angle (D10)	65°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	991 lm	
Material	PC / UL94V2	

cd/klm

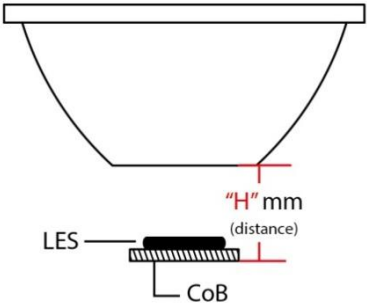


Illuminance At Distances

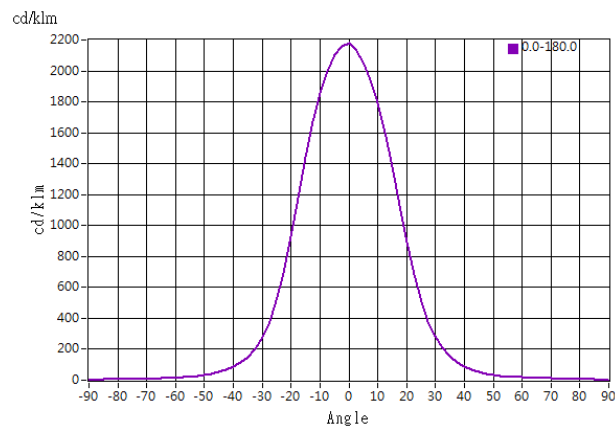




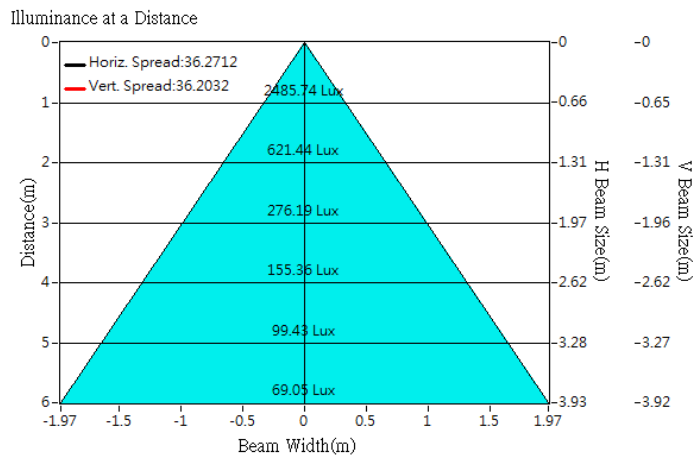
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p> 
LED	CXA1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	36°		
Field Angle (D10)	64°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1139 lm	Measured @ 13.1W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

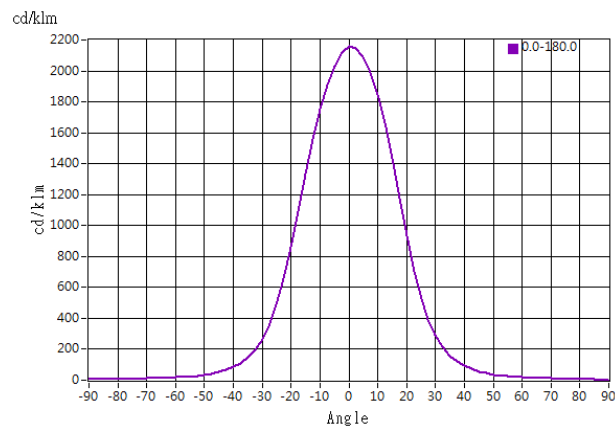




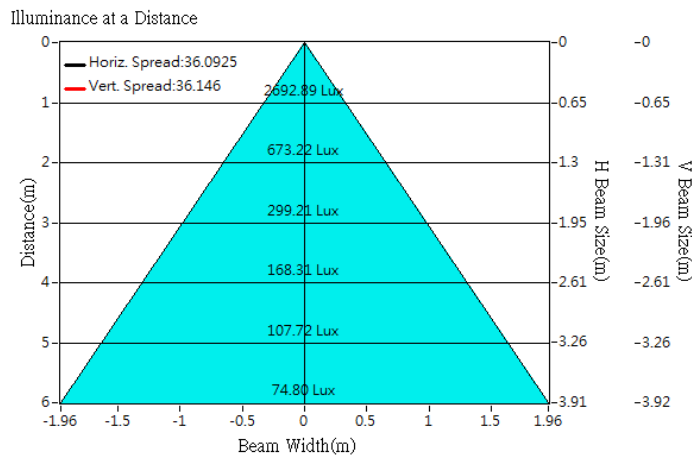
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p>
LED	CXB1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	36°		
Field Angle (D10)	64°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1246 lm	Measured @ 11.7W	
Material	PC / UL94V2		

cd/klm

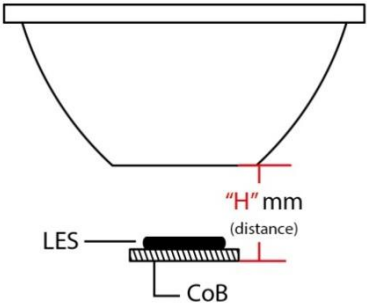


Illuminance At Distances

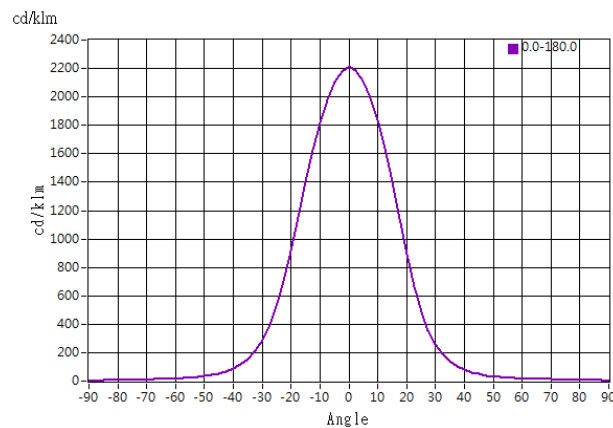




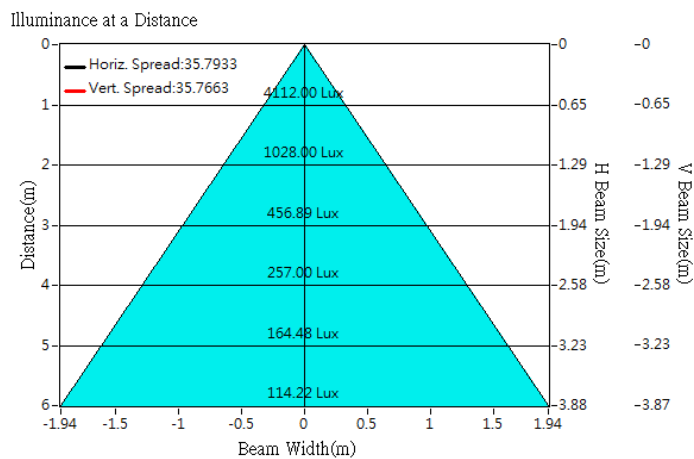
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p> 
LED	CMA1516		
LES / LED Size	Φ 9 mm		
FWHM (D50)	36°		
Field Angle (D10)	64°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1853 lm	Measured @ 15.5W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

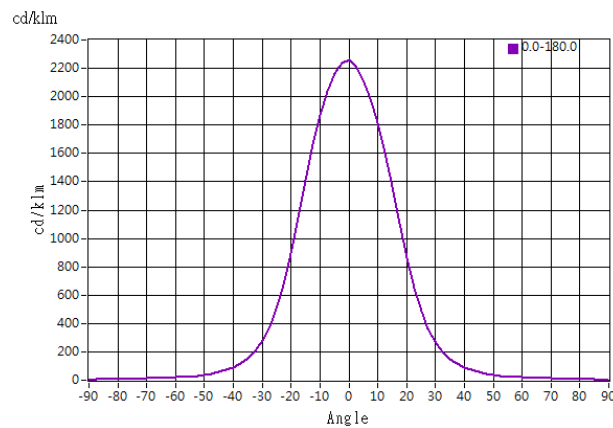




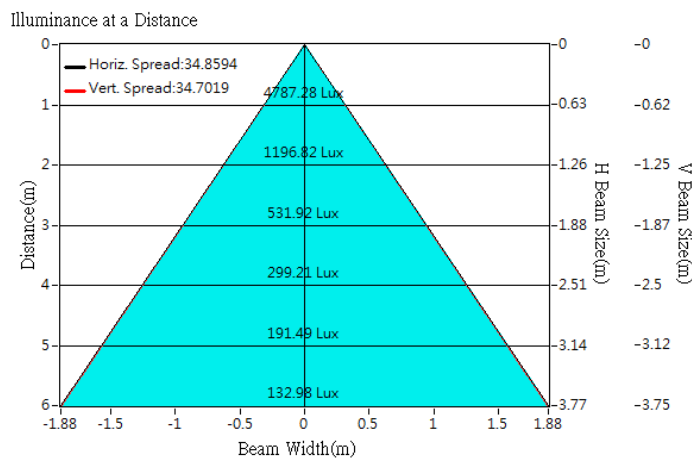
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p>
LED	CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	35°		
Field Angle (D10)	63°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2118 lm	Measured @ 16.6W	
Material	PC / UL94V2		

cd/klm

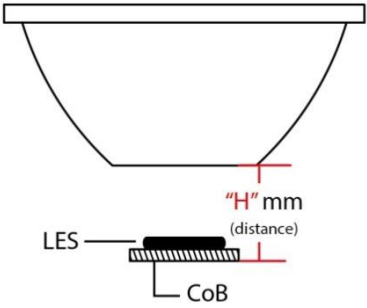


Illuminance At Distances

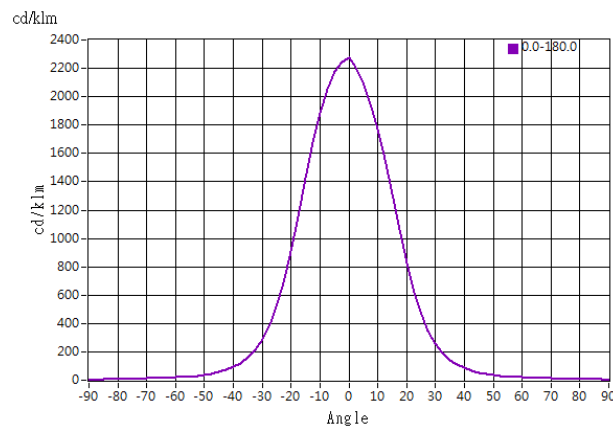




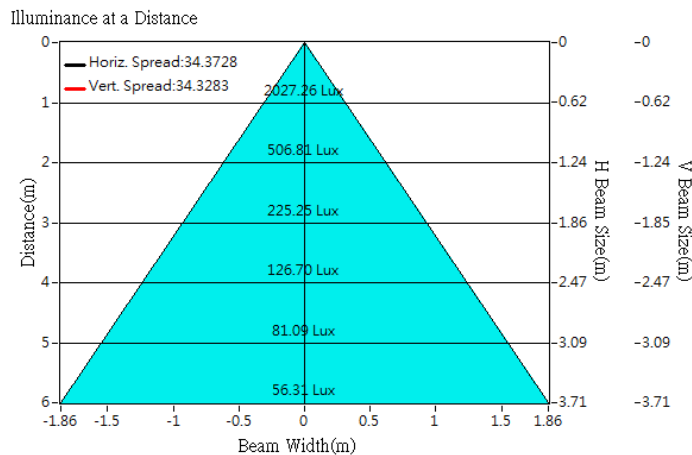
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p> 
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	34°		
Field Angle (D10)	63°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	890 lm	Measured @7.0 W	
Material	PC / UL94V2		

cd/klm

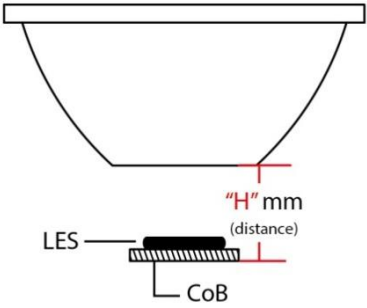


Illuminance At Distances

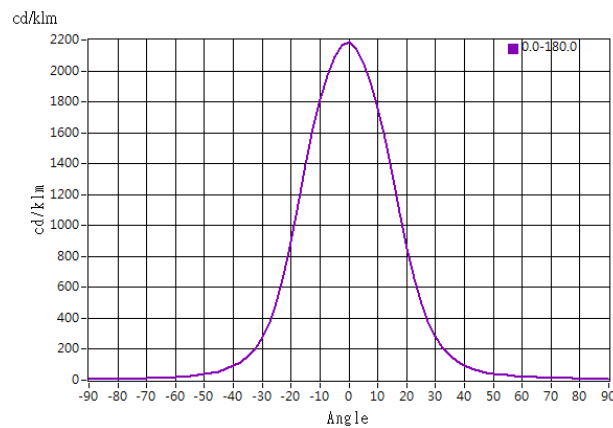




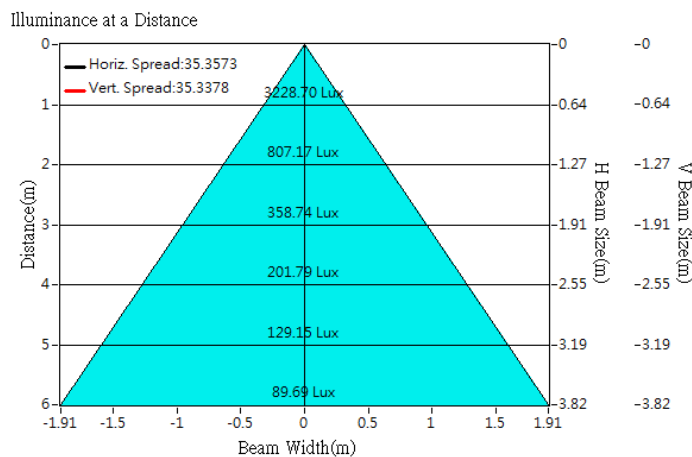
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p> 
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	35°		
Field Angle (D10)	64°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1478 lm	Measured @ 12.7W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

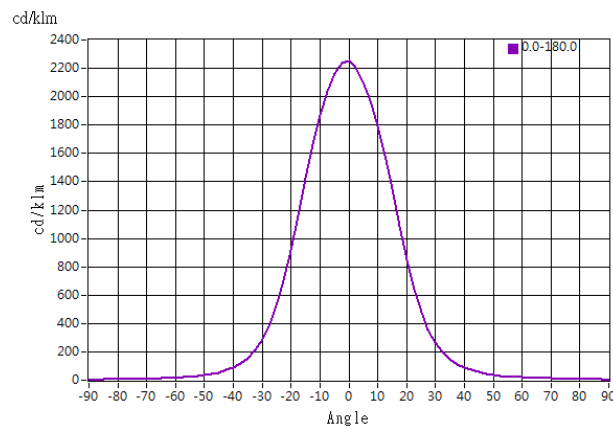




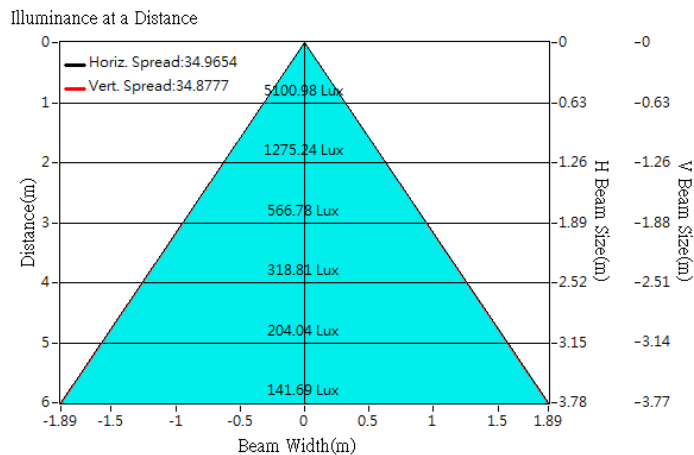
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p>
LED	CMT1420		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	35°		
Field Angle (D10)	64°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2262 lm	Measured @19.0 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

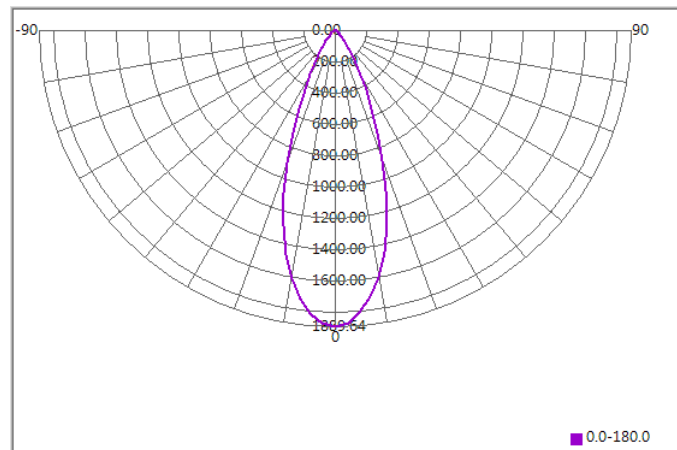




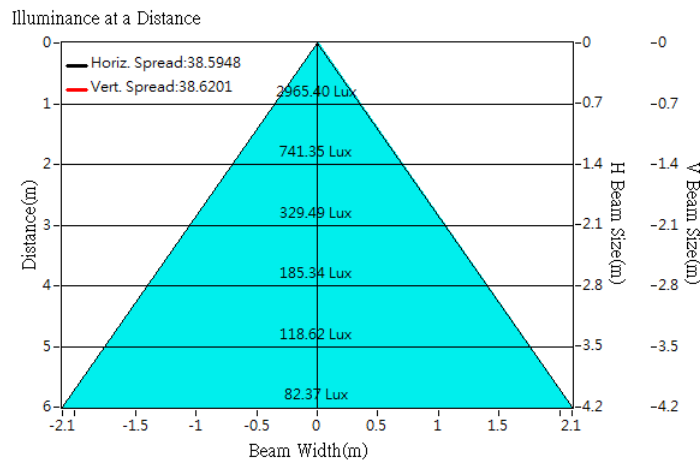
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p> <p>LES CoB</p>
LED	CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	39°		
Field Angle (D10)	70°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1569 lm	Measured @ 16.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

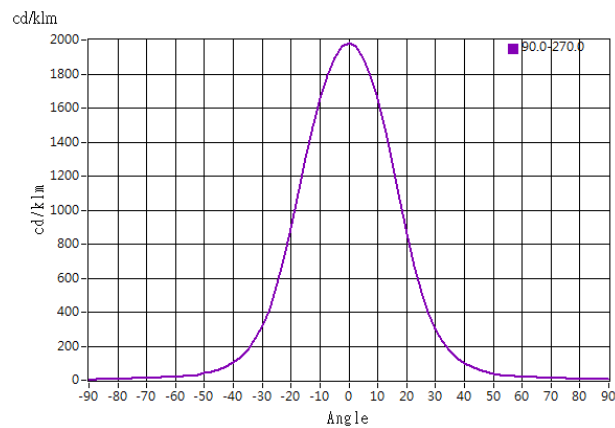




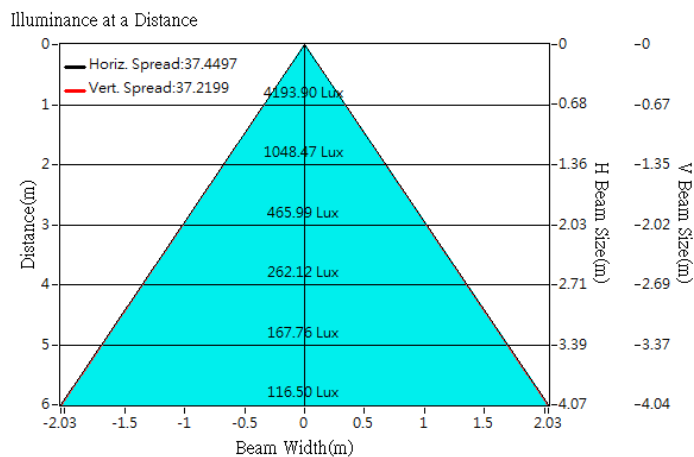
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p>
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	37°		
Field Angle (D10)	68°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2117 lm	Measured @ 19.5W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

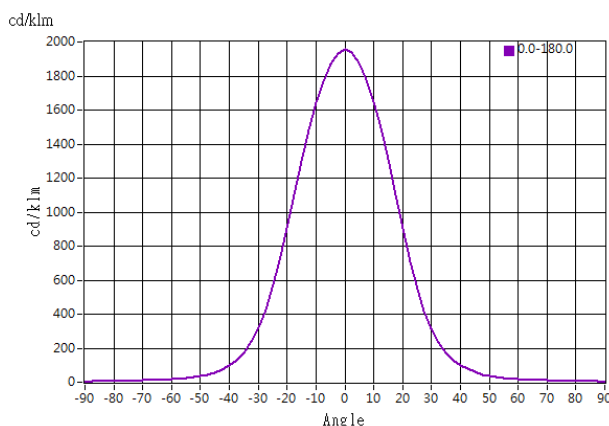




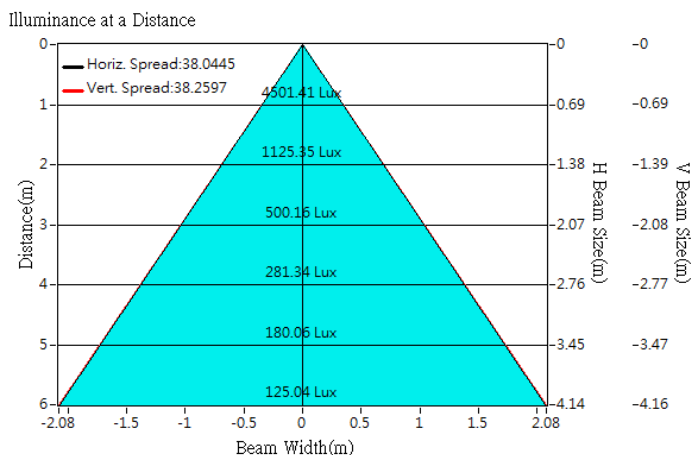
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p>
LED	CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	38°		
Field Angle (D10)	68°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2297 lm	Measured @ 19.2W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

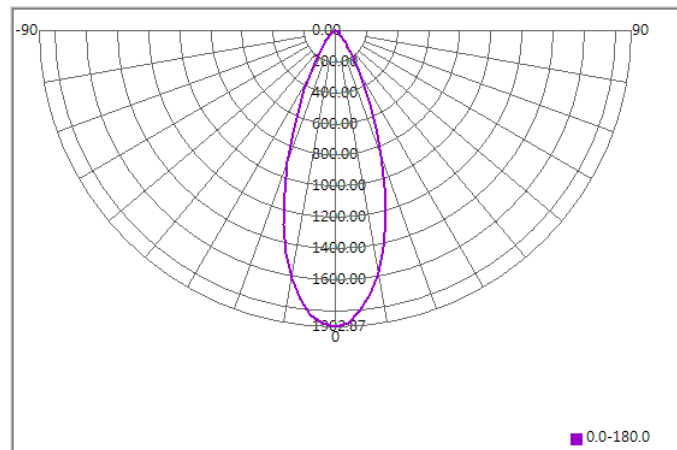




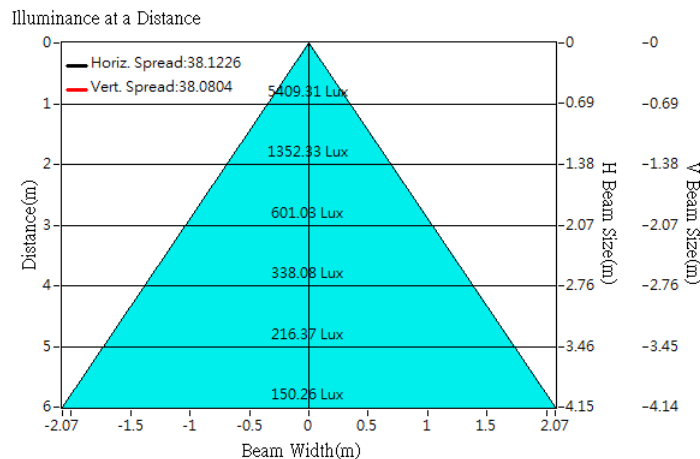
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p>
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	38°		
Field Angle (D10)	69°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2842 lm	Measured @ 24.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

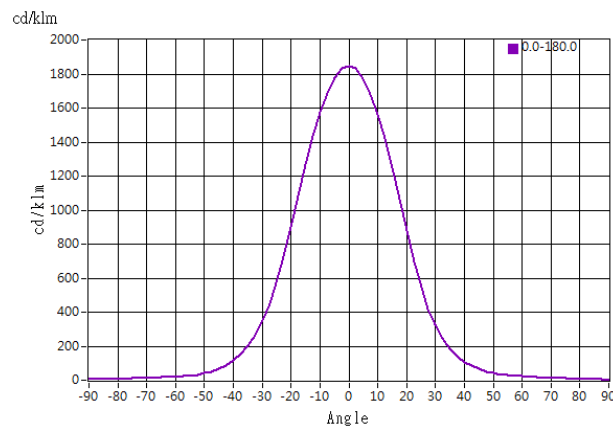




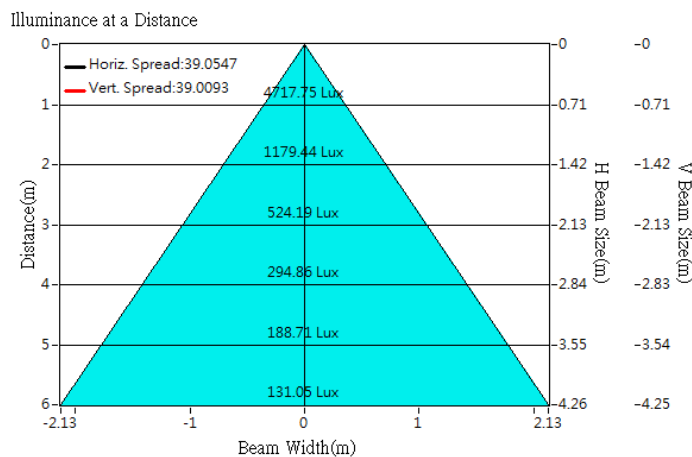
Optical Characteristics

Model Number	CKO-CH17-060033-0205	<p>"H" definition</p>
LED	CXA1830	
LES / LED Size	Φ 14 mm	
FWHM (D50)	39°	
Field Angle (D10)	71°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	2553 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

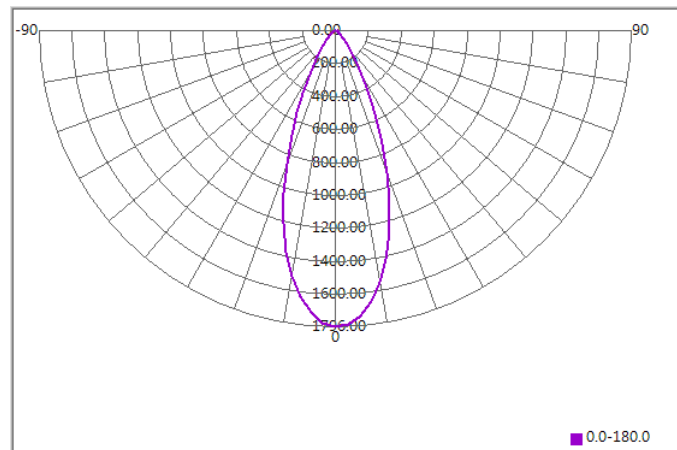




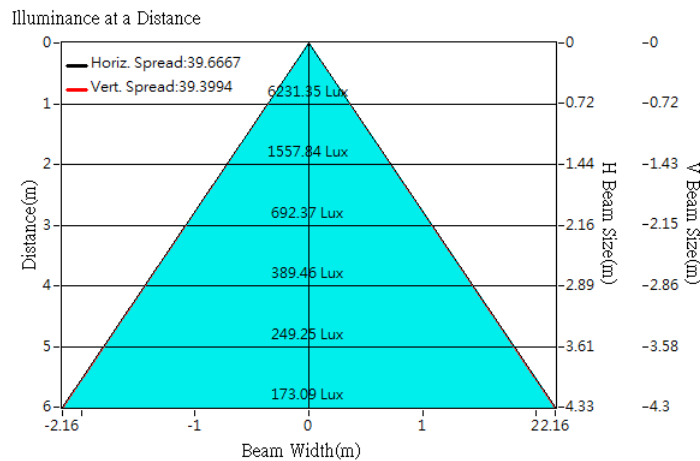
Optical Characteristics

Model Number	CKO-CH17-060033-0205	<p>"H" definition</p>
LED	CXB1830	
LES / LED Size	Φ 14 mm	
FWHM (D50)	40°	
Field Angle (D10)	72°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	3469 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

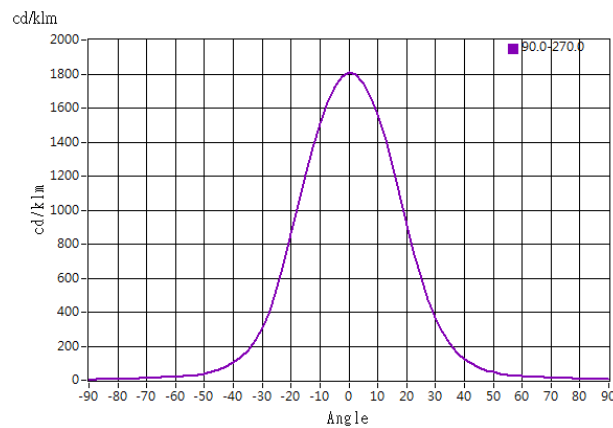




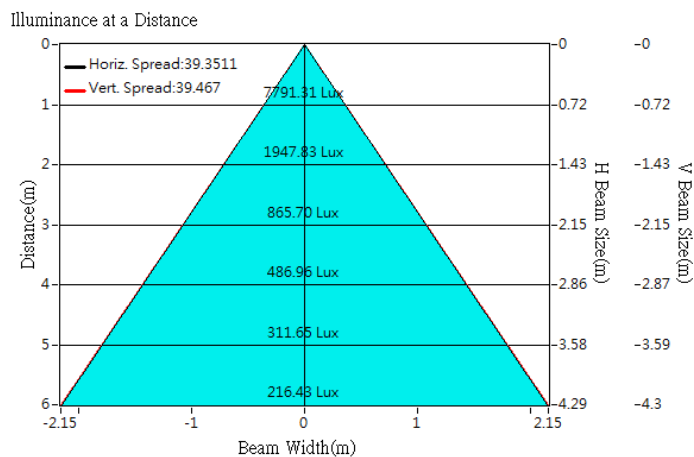
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p>
LED	CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	39°		
Field Angle (D10)	71°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	4311 lm	Measured @38.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

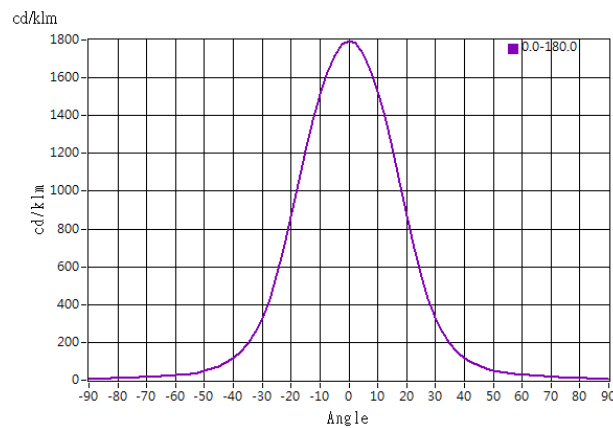




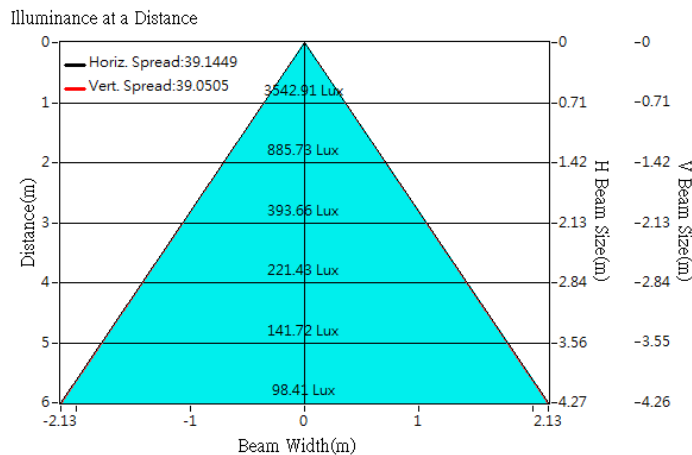
Optical Characteristics

Model Number	CKO-CH17-060033-0205	<p>"H" definition</p>
LED	CMT1922	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	39°	
Field Angle (D10)	72°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	1975 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

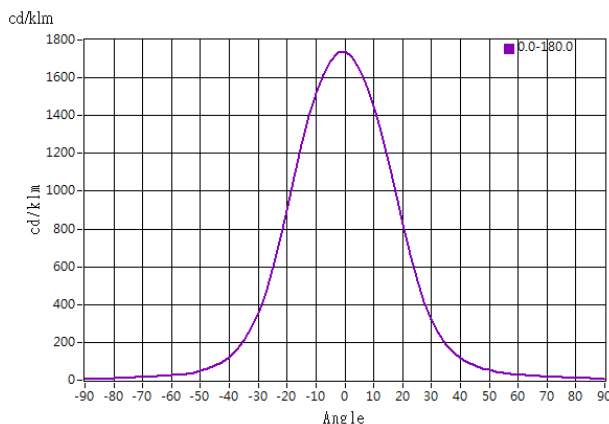




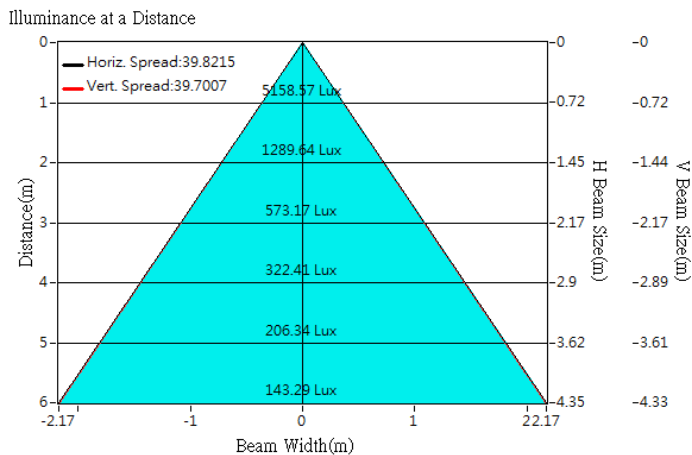
Optical Characteristics

Model Number	CKO-CH17-060033-0205		<p>"H" definition</p>
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	40°		
Field Angle (D10)	73°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2968 lm	Measured @25.1 W	
Material	PC / UL94V2		

cd/klm

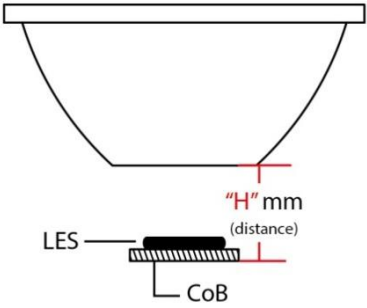


Illuminance At Distances

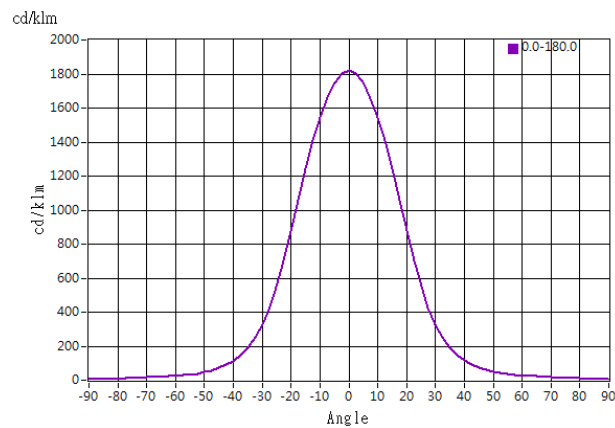




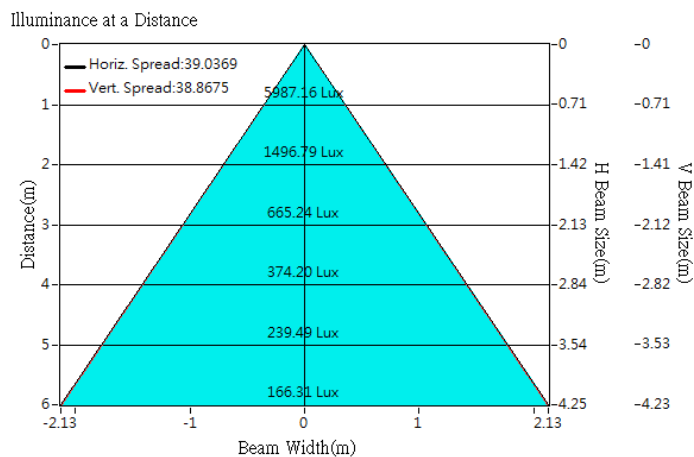
Optical Characteristics

Model Number	CKO-CH17-060033-0205	<p>"H" definition</p> 
LED	CMT1930	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	39°	
Field Angle (D10)	71°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	3284 lm Measured @29.0 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

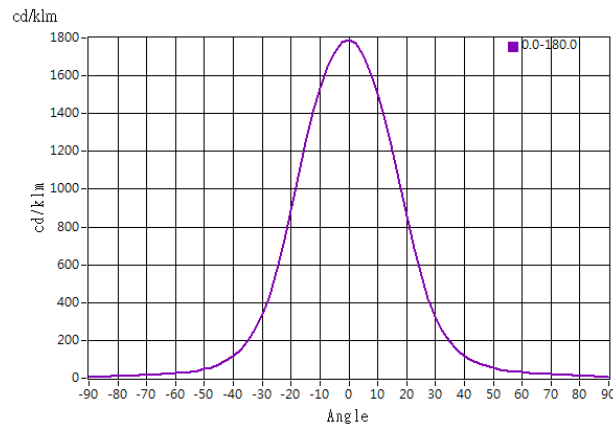




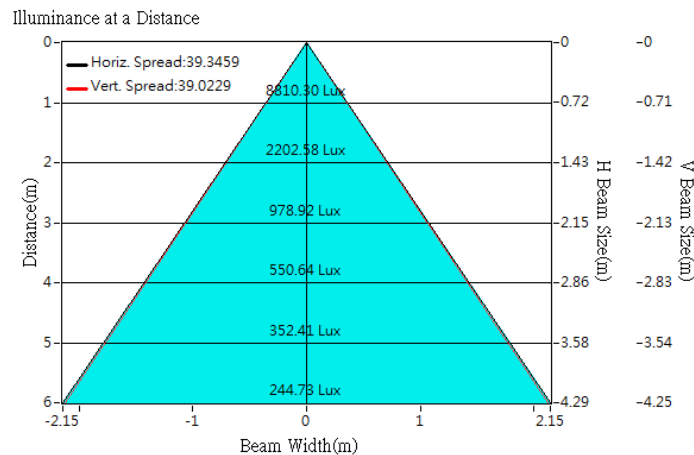
Optical Characteristics

Model Number	CKO-CH17-060033-0205	<p>"H" definition</p>
LED	CMT1945	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	39°	
Field Angle (D10)	72°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	4927 lm	
Material	PC / UL94V2	

cd/klm

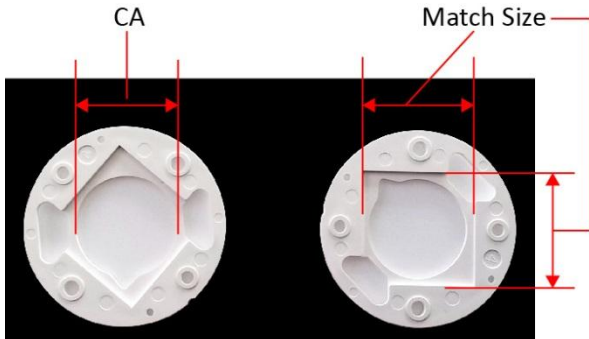


Illuminance At Distances





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