



Product Model Number

CKO-CH17-060033-0201

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

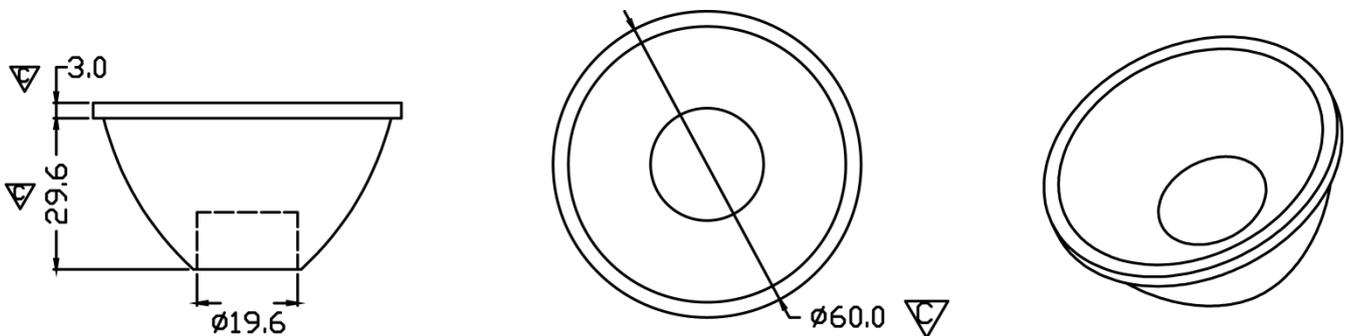


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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 60 x 32.6



▽:Critical Dimension



✓ Optical Characteristics – Angle Performances

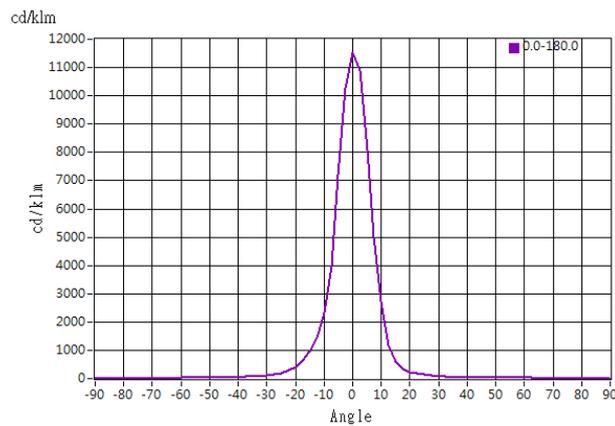
Cree		LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1507	Φ9	13°	27°	3.65
CXA1510	Φ9	13°	28°	3.65
CXA1512	Φ9	13°	27°	3.65
CXB1512	Φ9	13°	28°	3.65
CMA1516	Φ9	13°	29°	3.65
CXB1520	Φ9	14°	29°	3.65
CMT1412	Φ9.8	15°	29°	3.65
CMT1420	Φ9.8	14°	30°	3.65
CXA1816	Φ12	18°	36°	3.65
CXB1816	Φ12	18°	39°	3.65
CXA1820	Φ12	18°	38°	3.65
CXB1820	Φ12	19°	38°	3.65
CMA1825	Φ12	19°	39°	3.65
CXA1830	Φ14	20°	42°	3.65
CXB1830	Φ14	22°	45°	3.65
CMA1840	Φ14	21°	45°	3.65
CMT1922	Φ14.5	21°	44°	3.65
CMT1925	Φ14.5	21°	45°	3.65
CMT1930	Φ14.5	20°	43°	3.65
CMT1945	Φ14.5	21°	44°	3.65



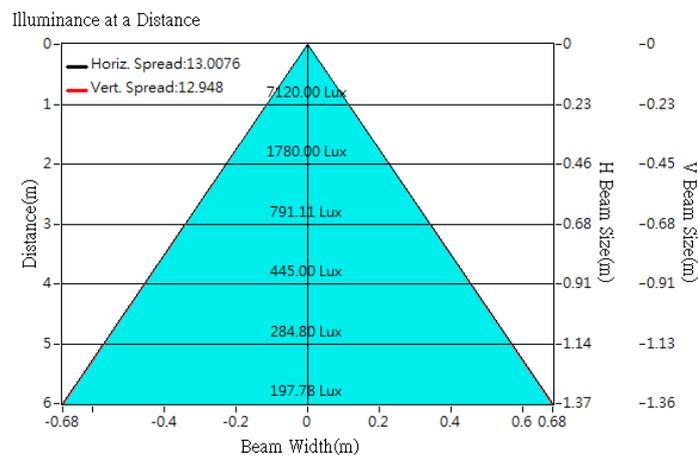
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	13°		
Field Angle (D10)	27°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	618 lm	Measured @ 7.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

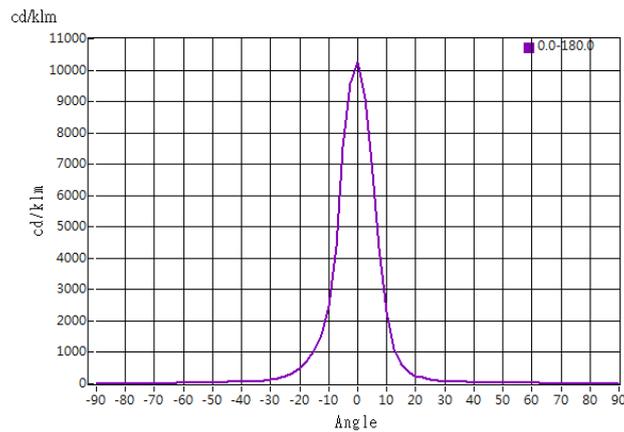




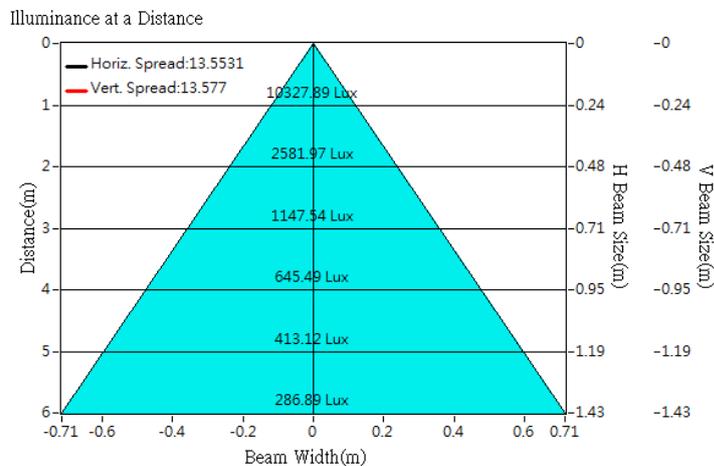
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CXA1510		
LES / LED Size	Φ 9 mm		
FWHM (D50)	13°		
Field Angle (D10)	28°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1008 lm	Measured @ 9.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

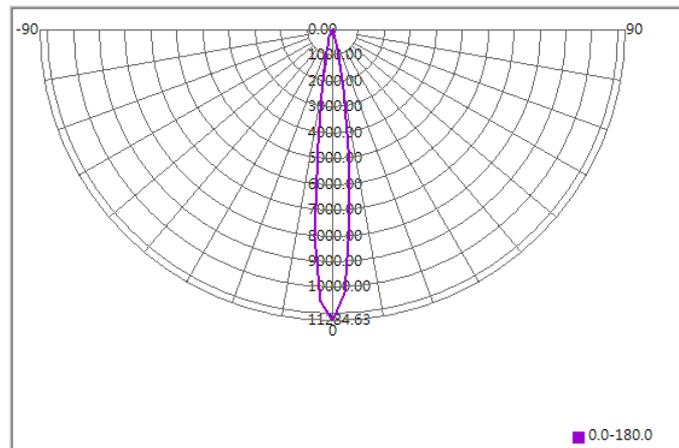




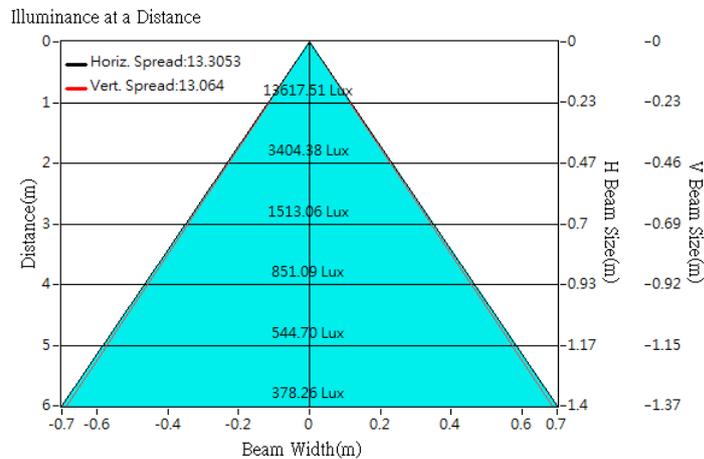
Optical Characteristics

Model Number	CKO-CH17-060033-0201	<p>"H" definition</p>
LED	CXA1512	
LES / LED Size	Φ 9 mm	
FWHM (D50)	13°	
Field Angle (D10)	27°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	1207 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

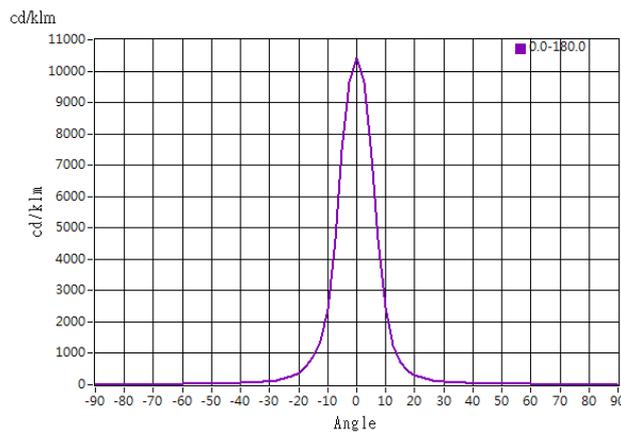




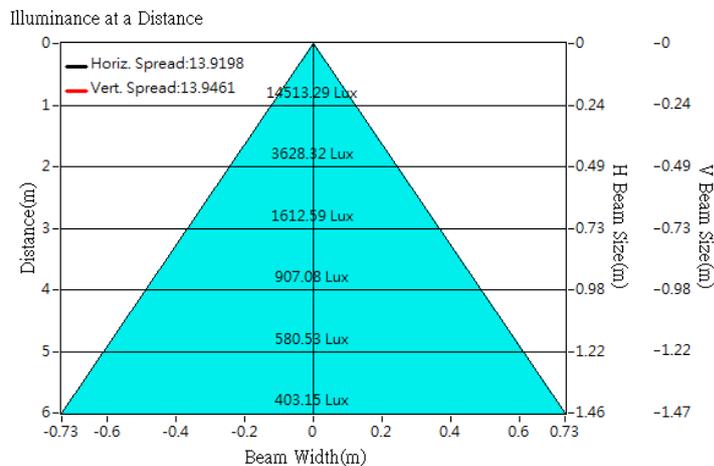
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CXB1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	13°		
Field Angle (D10)	28°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1390 lm	Measured @ 12.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

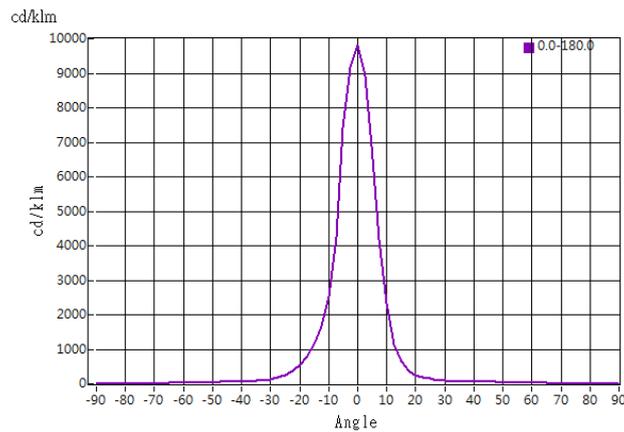




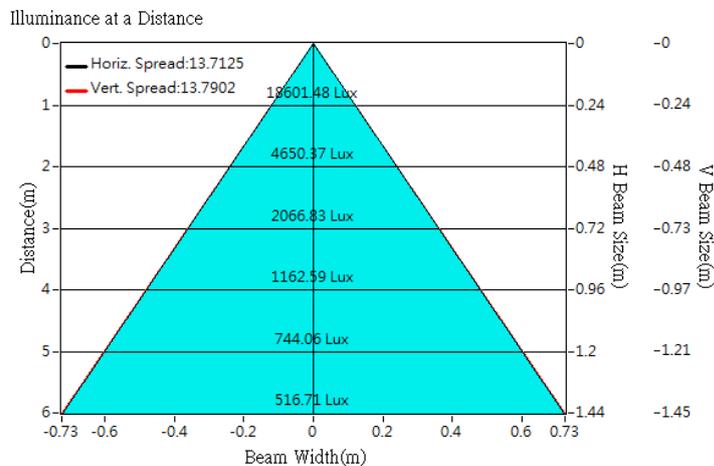
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CMA1516		
LES / LED Size	Φ 9 mm		
FWHM (D50)	13°		
Field Angle (D10)	29°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1896 lm	Measured @ 15.9 W	
Material	PC / UL94V2		

cd/klm

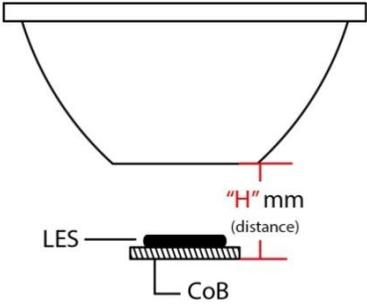


Illuminance At Distances

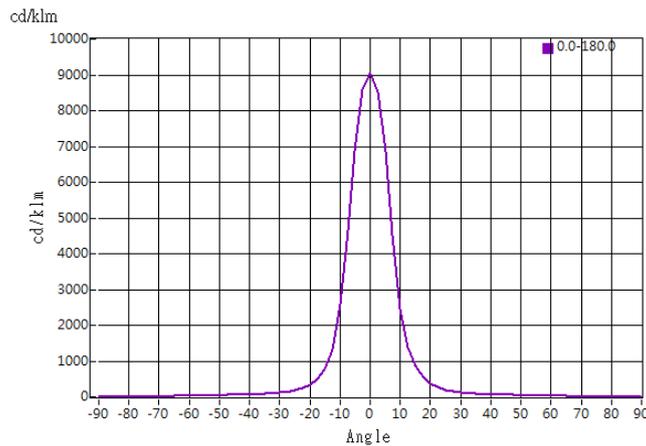




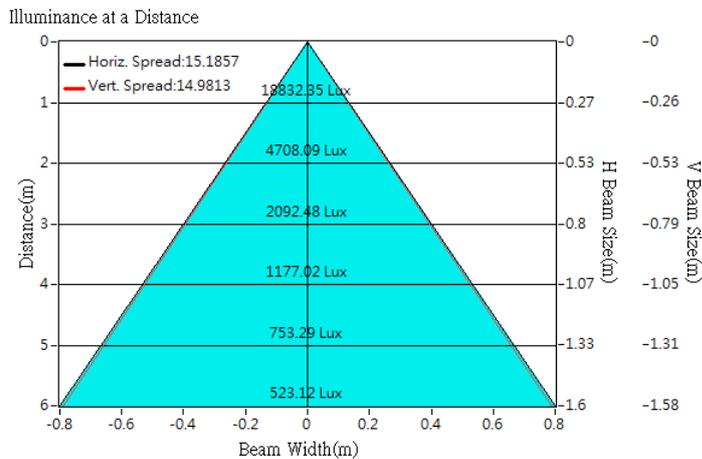
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p> 
LED	CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	15°		
Field Angle (D10)	29°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2085 lm	Measured @ 16.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

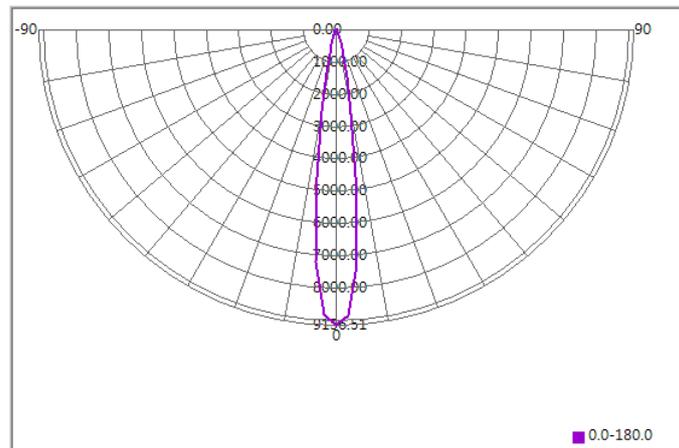




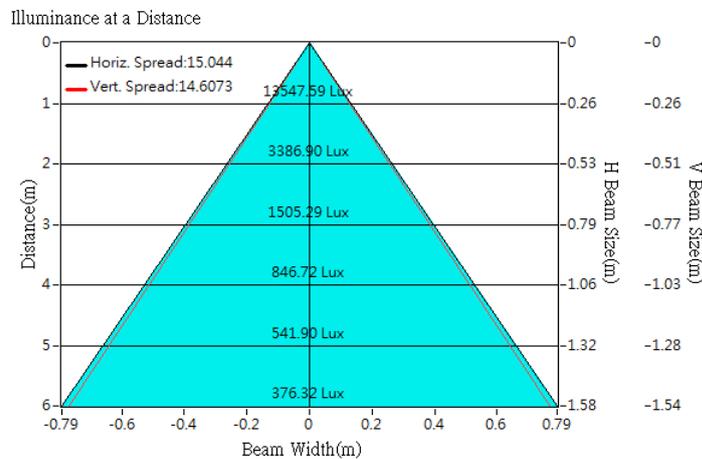
Optical Characteristics

Model Number	CKO-CH17-060033-0201	<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1412	
LES / LED Size	Φ 9.8 mm	
FWHM (D50)	15°	
Field Angle (D10)	29°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	1479 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

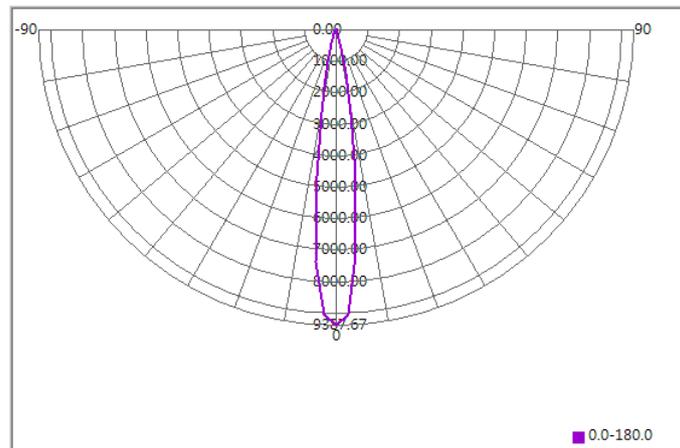




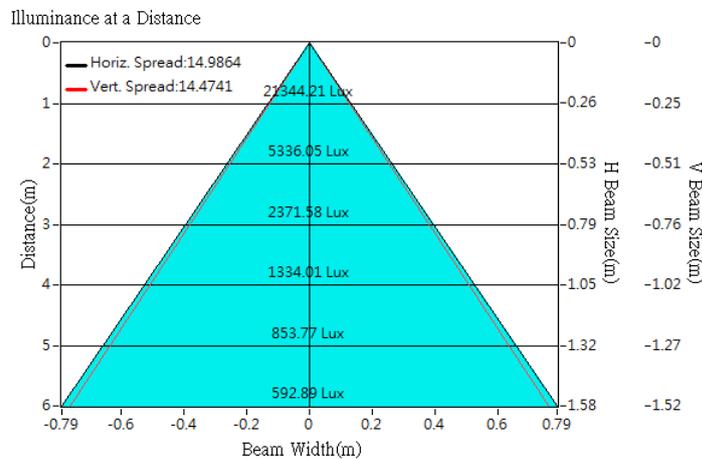
Optical Characteristics

Model Number	CKO-CH17-060033-0201	<p>"H" definition</p>
LED	CMT1420	
LES / LED Size	Φ 9.8 mm	
FWHM (D50)	14°	
Field Angle (D10)	30°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	2273 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

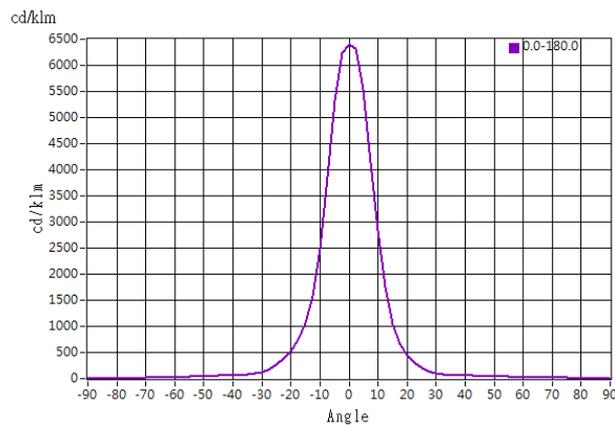




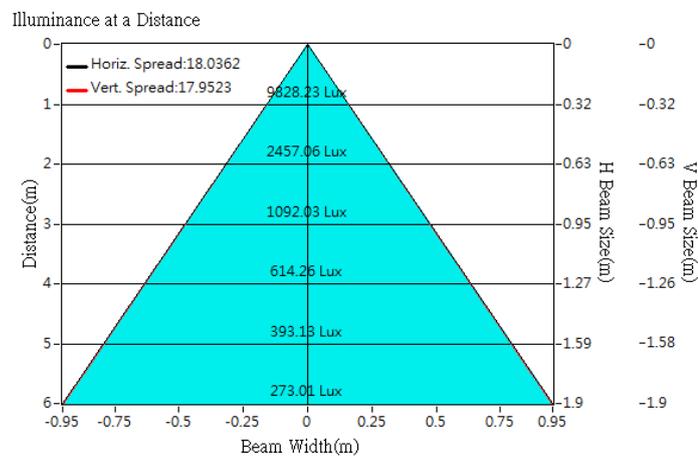
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	18°		
Field Angle (D10)	36°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1537 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

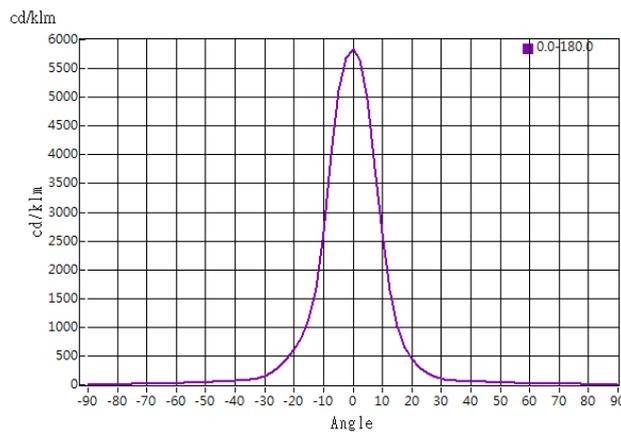




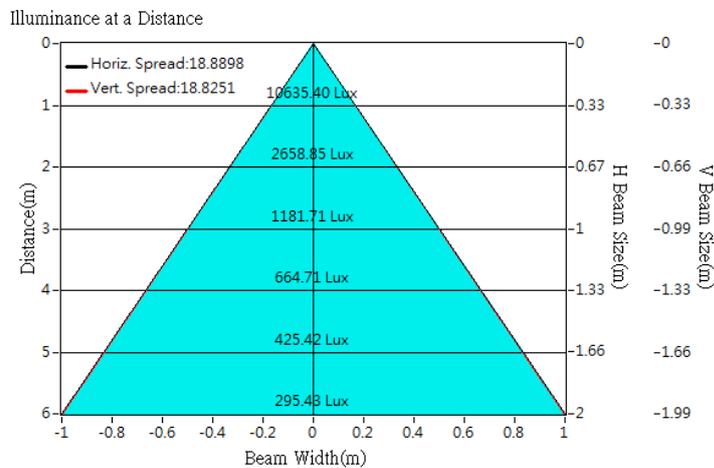
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	18°		
Field Angle (D10)	39°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1824 lm	Measured @ 15.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

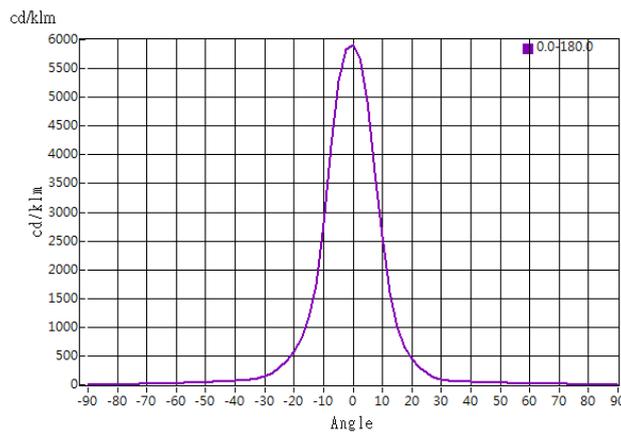




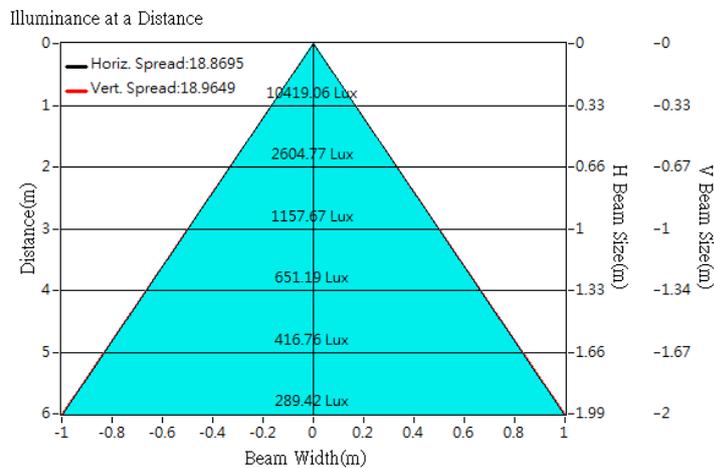
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	18°		
Field Angle (D10)	38°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1762 lm	Measured @ 19.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

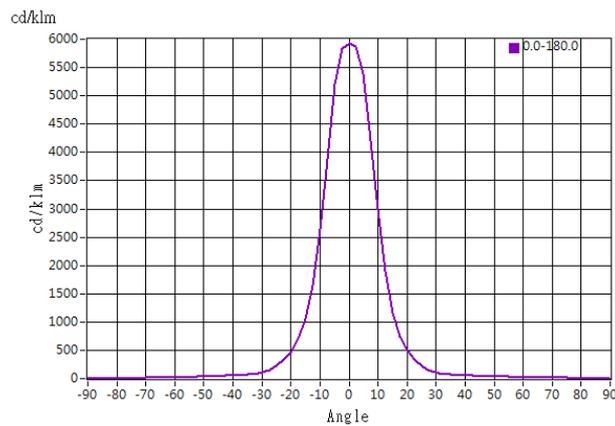




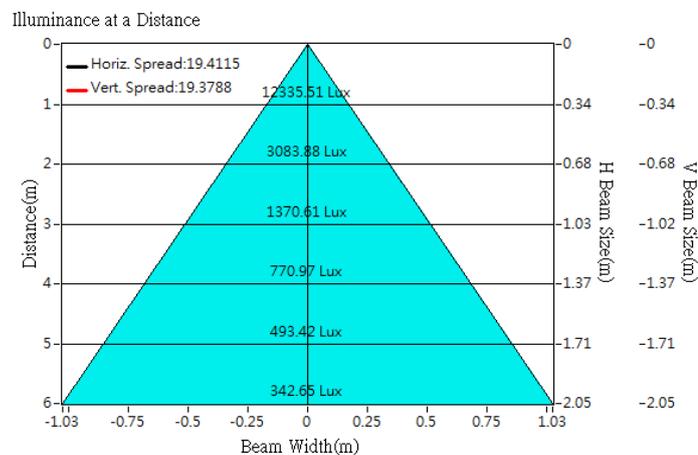
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	19°		
Field Angle (D10)	38°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2079 lm	Measured @ 19.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

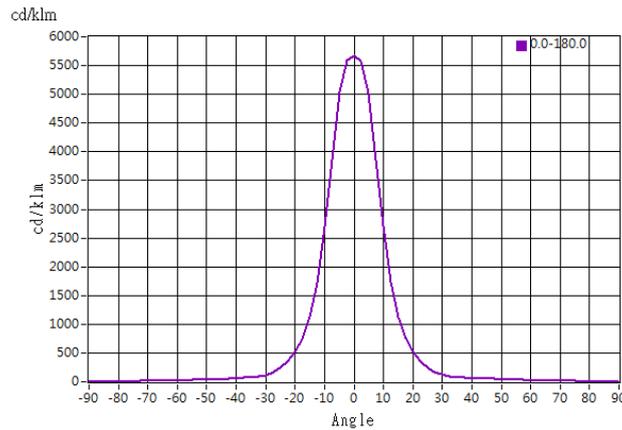




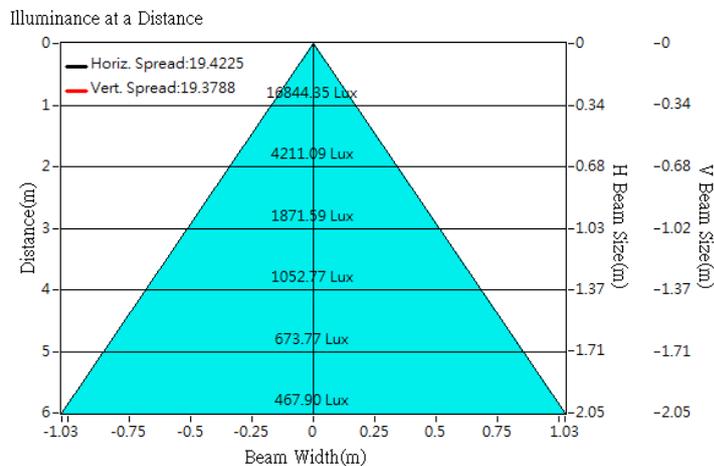
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	19°		
Field Angle (D10)	39°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2971 lm	Measured @ 24.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

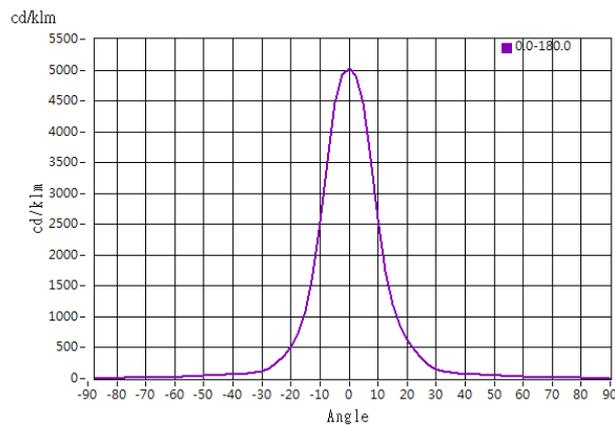




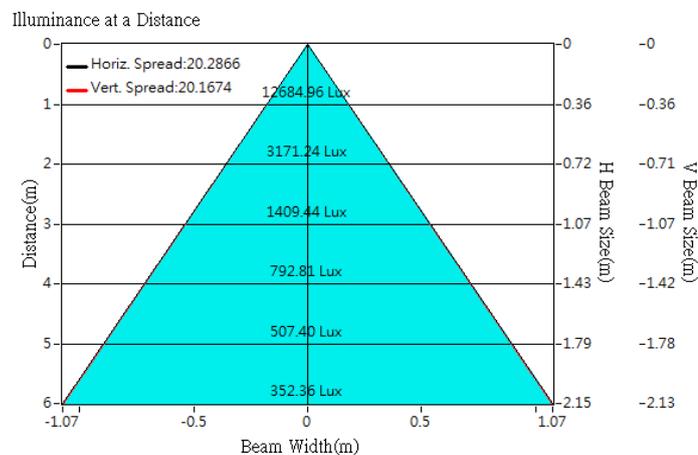
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	20°		
Field Angle (D10)	42°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2523 lm	Measured @ 29.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

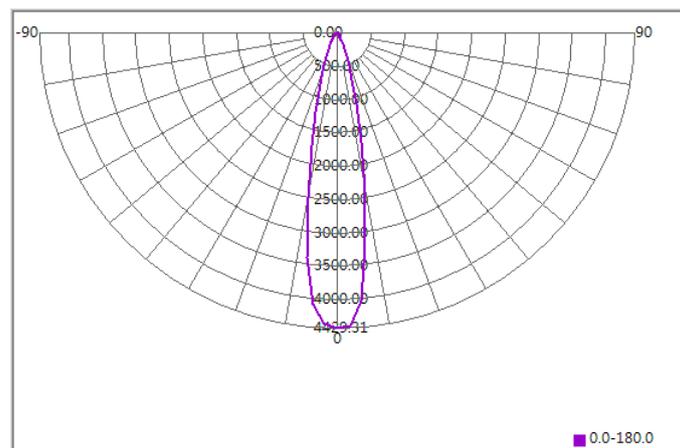




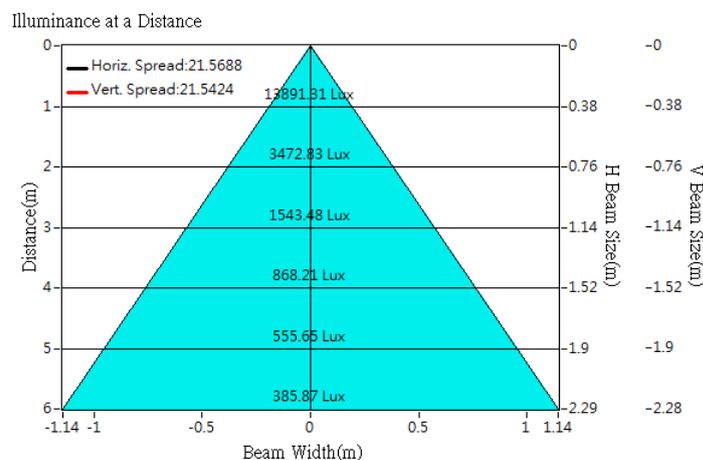
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p> <p>LES CoB</p>
LED	CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	22°		
Field Angle (D10)	45°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	3136 lm	Measured @ 28.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

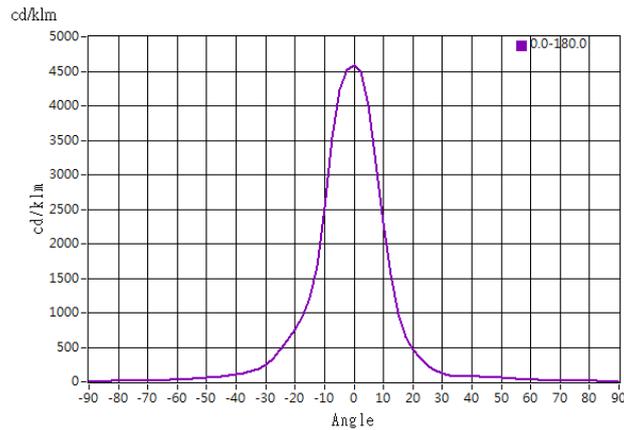




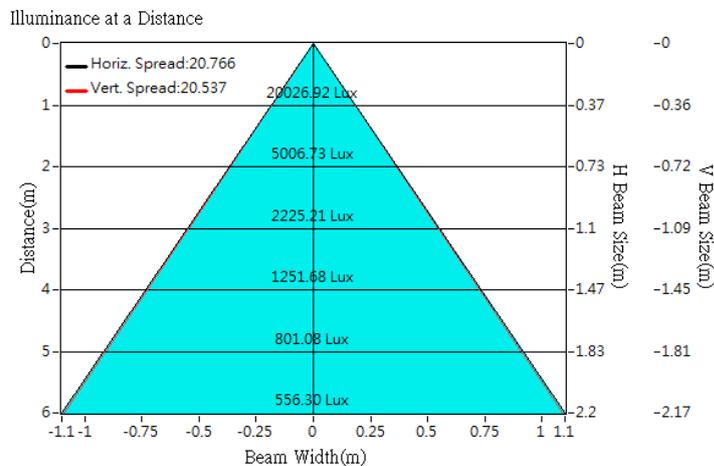
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	21°		
Field Angle (D10)	45°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	4375 lm	Measured @ 40.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

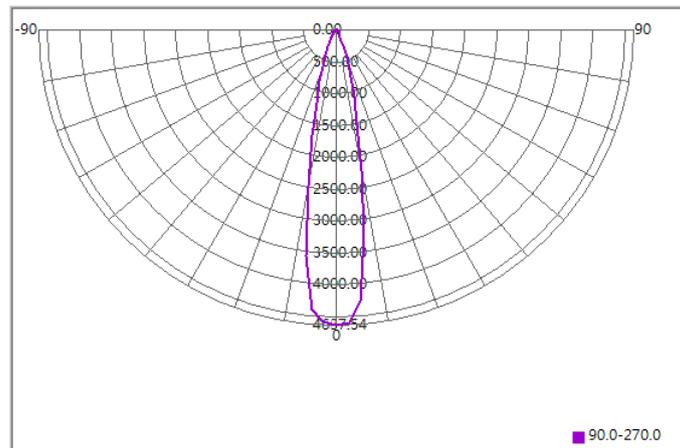




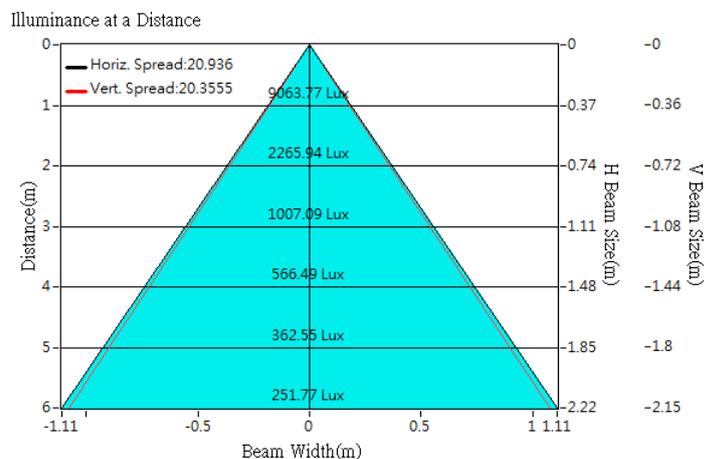
Optical Characteristics

Model Number	CKO-CH17-060033-0201	<p>"H" definition</p>
LED	CMT1922	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	21°	
Field Angle (D10)	44°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	1954 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

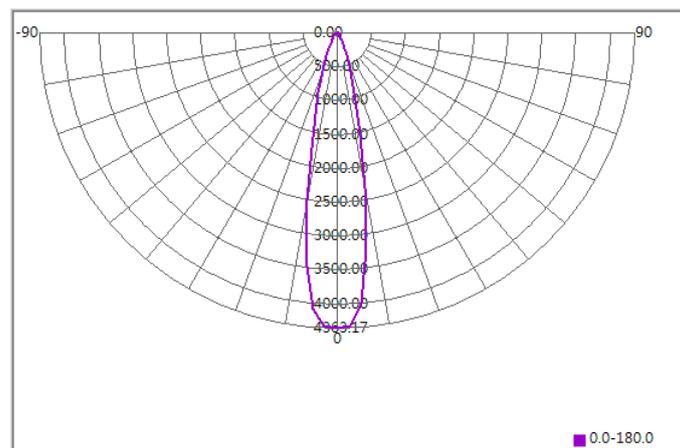




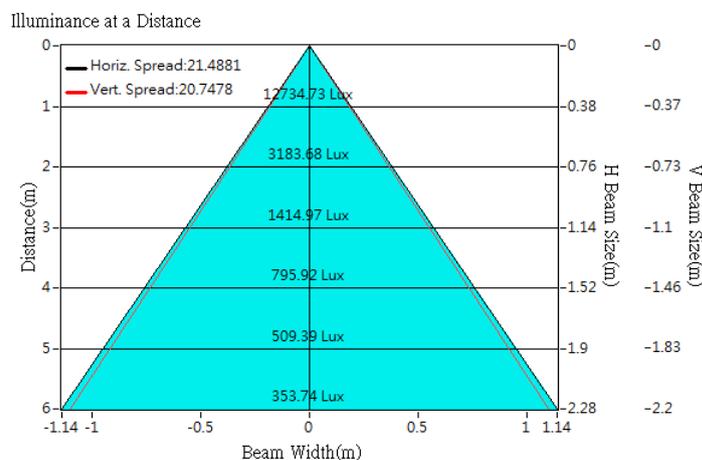
Optical Characteristics

Model Number	CKO-CH17-060033-0201	<p>"H" definition</p> <p>LES CoB</p>	
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	21°		
Field Angle (D10)	45°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2918 lm		Measured @ 25.1 W
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

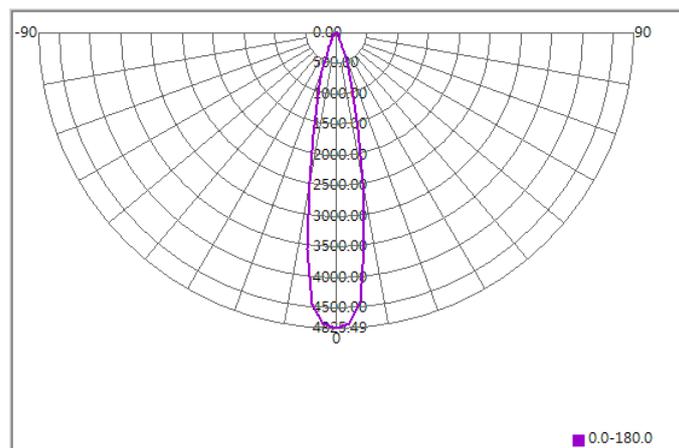




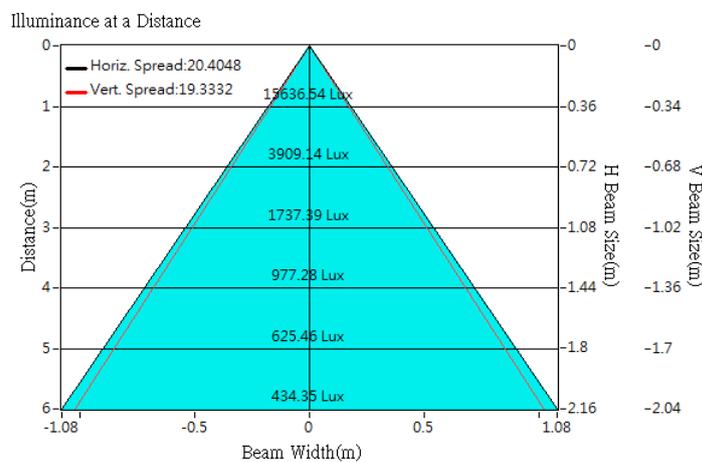
Optical Characteristics

Model Number	CKO-CH17-060033-0201		<p>"H" definition</p>
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	20°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	3240 lm	Measured @ 29.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

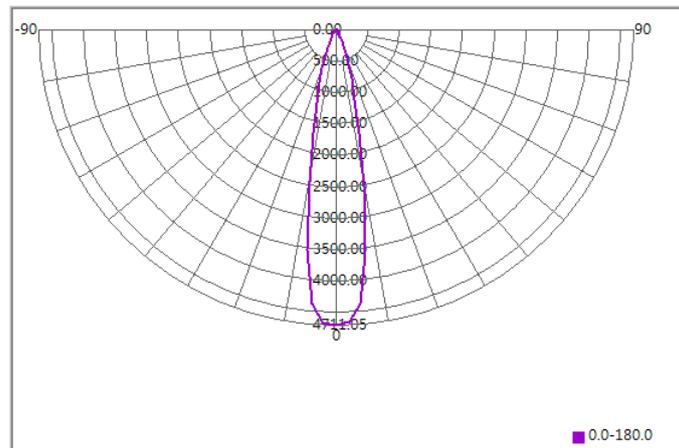




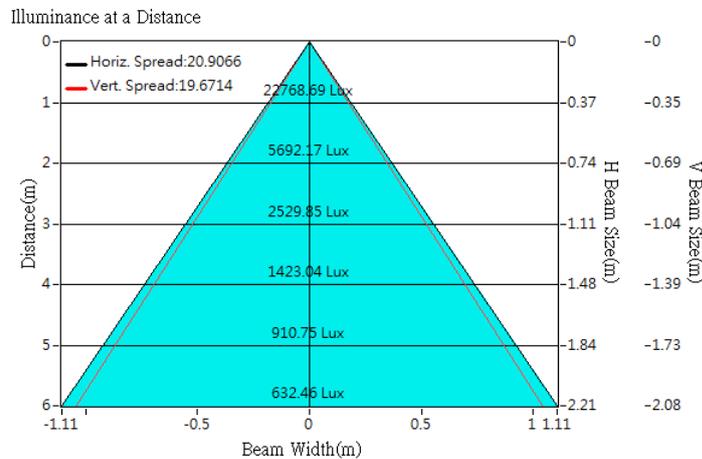
Optical Characteristics

Model Number	CKO-CH17-060033-0201	<p>"H" definition</p>
LED	CMT1945	
LES / LED Size	Φ 14 mm	
FWHM (D50)	21°	
Field Angle (D10)	44°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	4833 lm	
Material	PC / UL94V2	

cd/klm

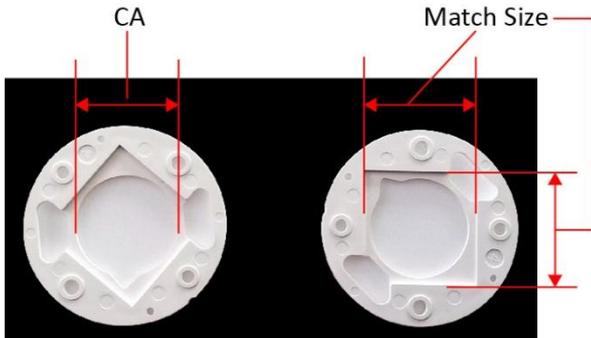


Illuminance At Distances





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