



## Product Model Number

CKO-CH17-060033-0203

### ✓ Model Number Definitions

**CKO-XXXX-XXXXXX-XXXX**

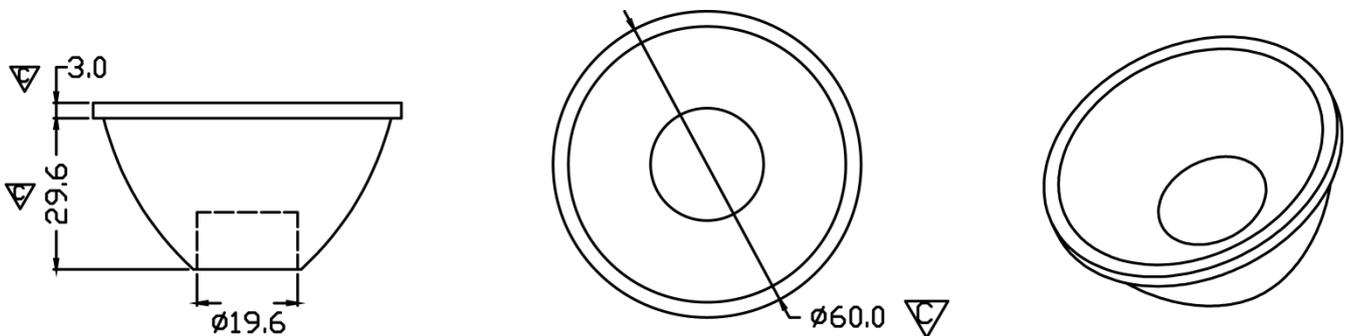


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation  
Ex:  
CH→CoB High Intensity  
CC→CoB Compact  
CS→Soft Shading for CoB LED  
HC→Holder for CoB LED

- 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

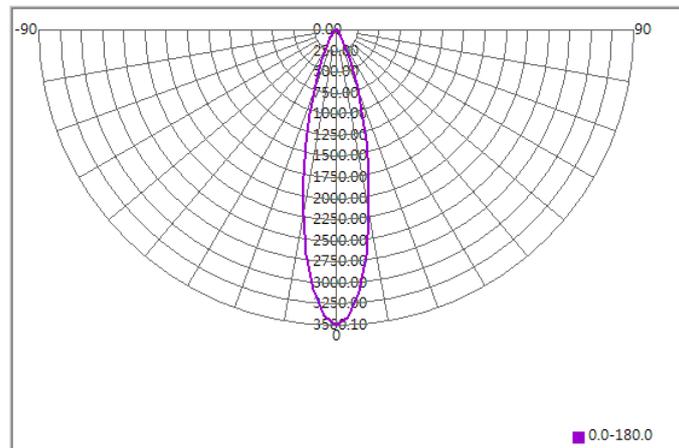
Cree	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1507	Φ9	25°	51°
CXA1510	Φ9	25°	51°
CXA1512	Φ9	25°	50°
CXB1512	Φ9	25°	51°
CMA1516	Φ9	25°	51°
CXB1520	Φ9	25°	50°
CMT1407	Φ9.8	26°	51°
CMT1412	Φ9.8	26°	52°
CMT1420	Φ9.8	26°	51°
CXA1816	Φ12	28°	57°
CXB1816	Φ12	28°	57°
CXB1820	Φ12	28°	57°
CMA1825	Φ12	29°	58°
CXA1830	Φ14	30°	60°
CXB1830	Φ14	31°	62°
CMA1840	Φ14	31°	61°
CMT1922	Φ14.5	31°	60°
CMT1925	Φ14.5	32°	62°
CMT1930	Φ14.5	31°	61°
CMT1945	Φ14.5	31°	61°



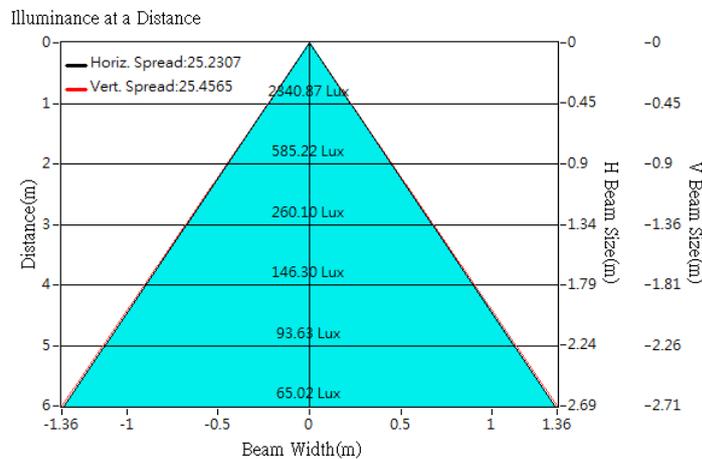
## Optical Characteristics

Model Number	CKO-CH17-060033-0203	<p>"H" definition</p> <p>LES CoB</p>	
LED	<b>CXA1507</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	668 lm		Measured @ 7.6 W
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

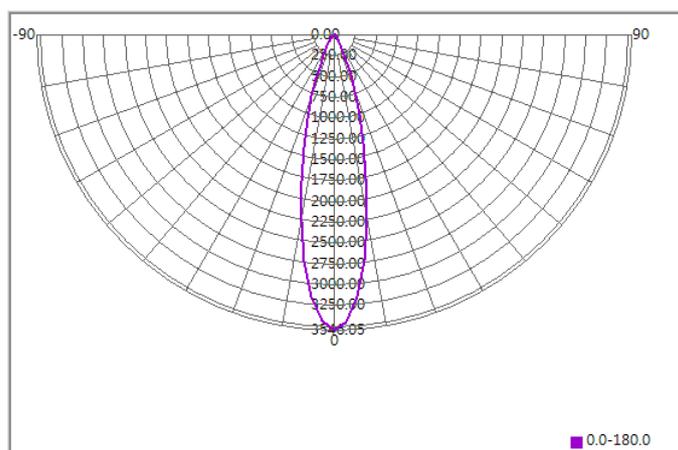




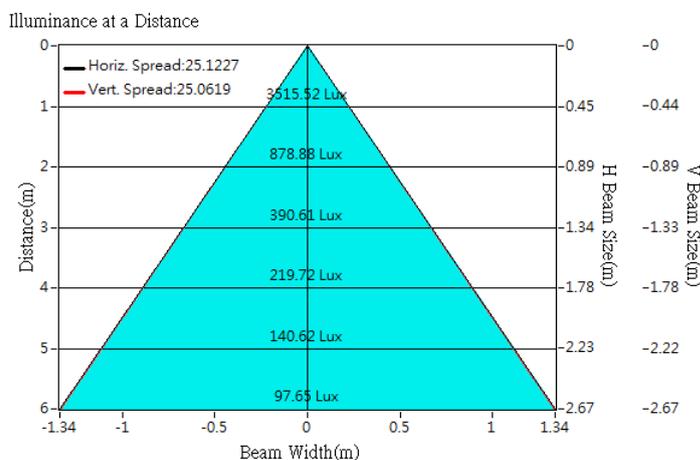
## Optical Characteristics

Model Number	CKO-CH17-060033-0203	<p>"H" definition</p>	
LED	<b>CXA1510</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	991 lm		Measured @ 9.1 W
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

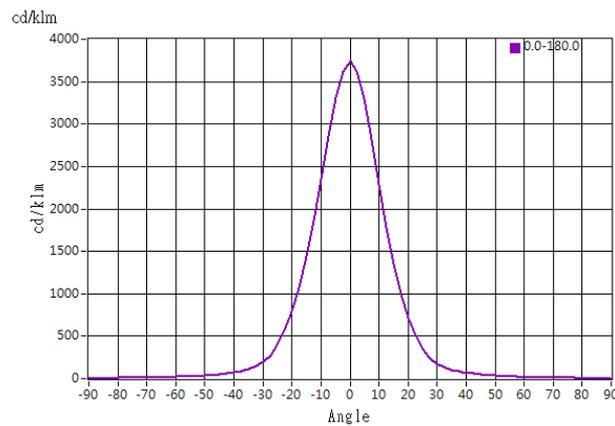




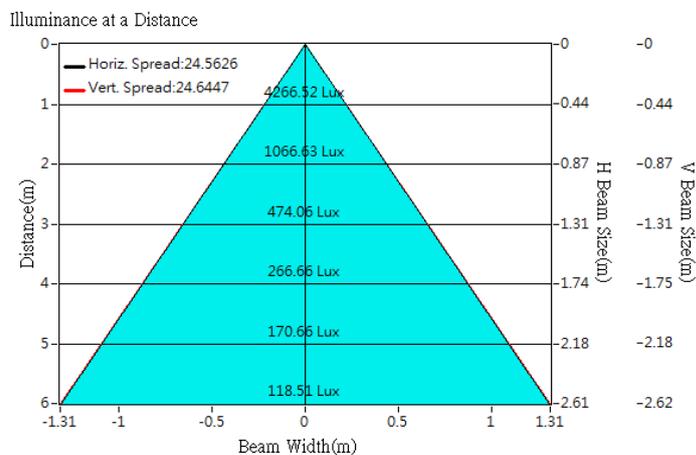
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	CXA1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	25°		
Field Angle (D10)	50°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1142 lm	Measured @ 13.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

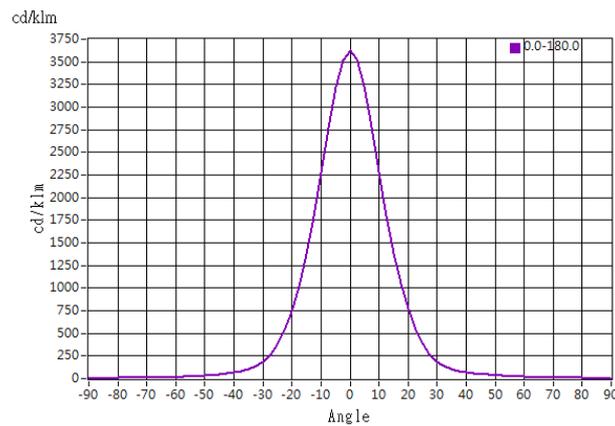




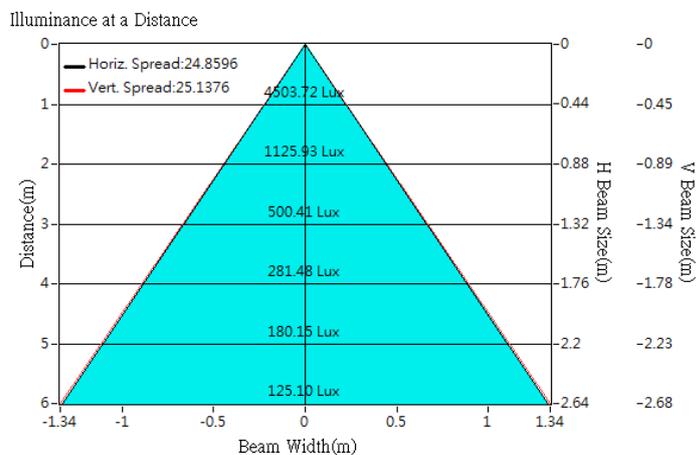
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CXB1512</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1243 lm	Measured @ 11.8 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

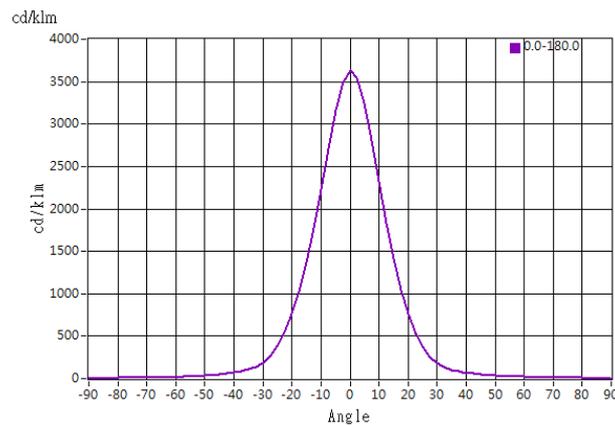




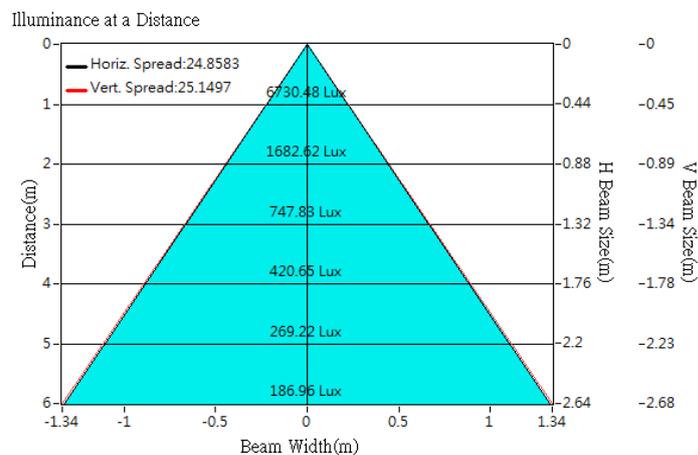
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CMA1516</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1854 lm	Measured @ 15.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

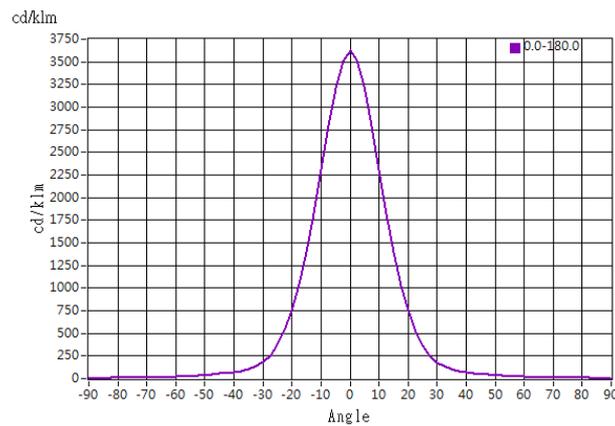




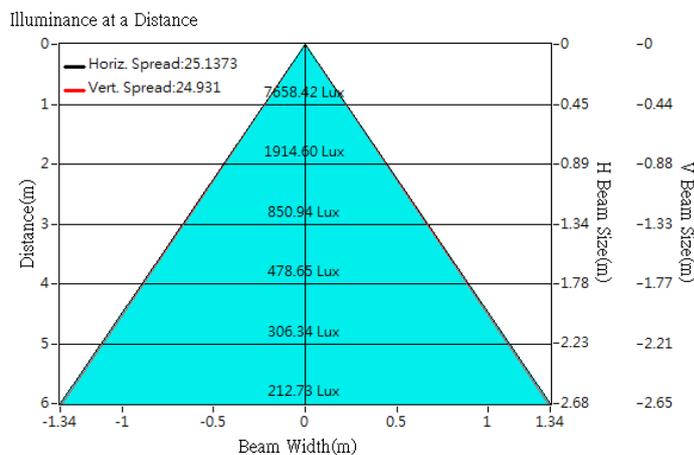
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CXB1520</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	25°		
Field Angle (D10)	50°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2115 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

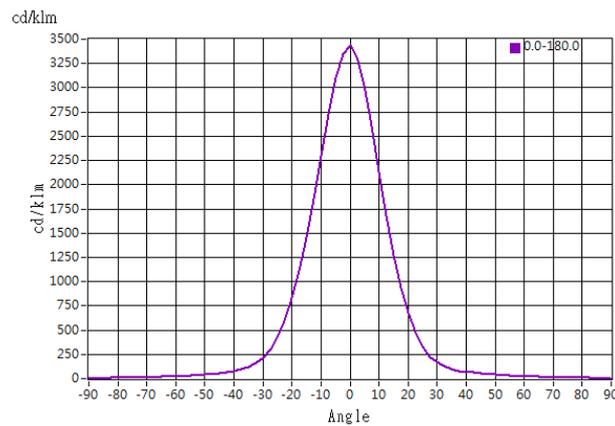




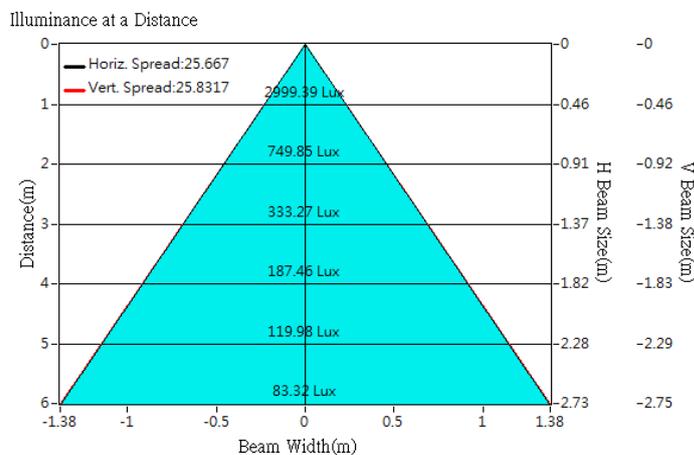
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CMT1407</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	26°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	874 lm	Measured @ 7.0 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

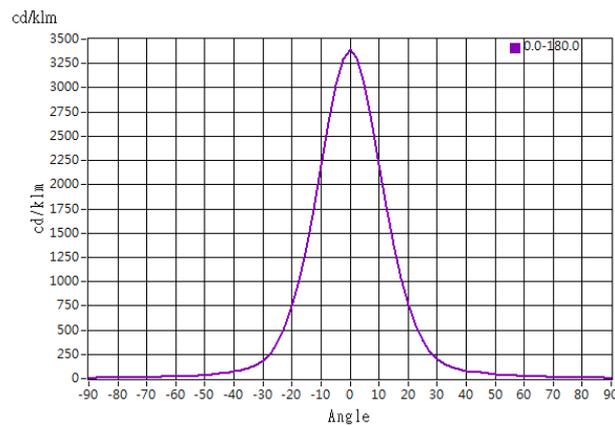




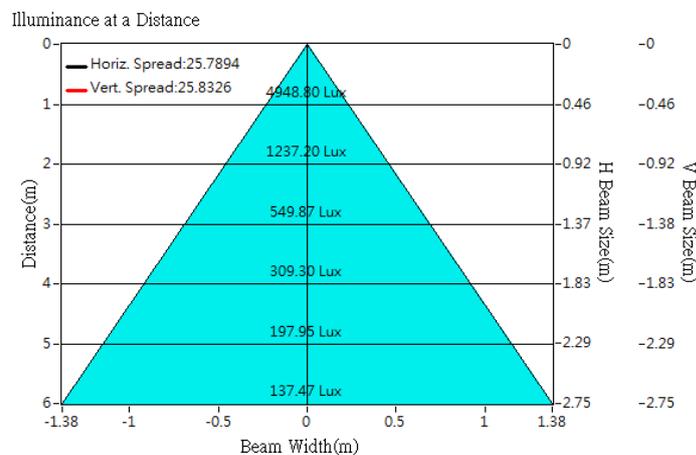
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CMT1412</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	26°		
Field Angle (D10)	52°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1458 lm	Measured @ 12.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

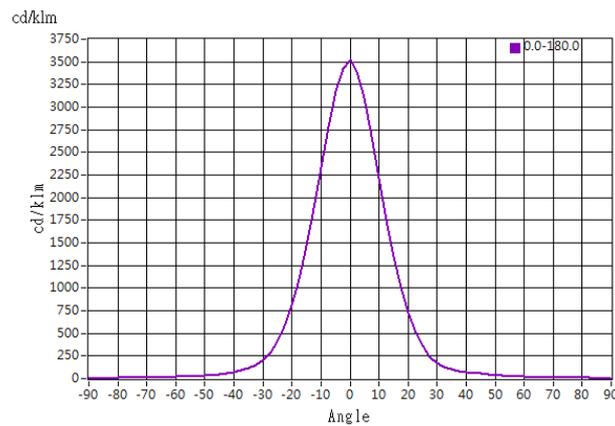




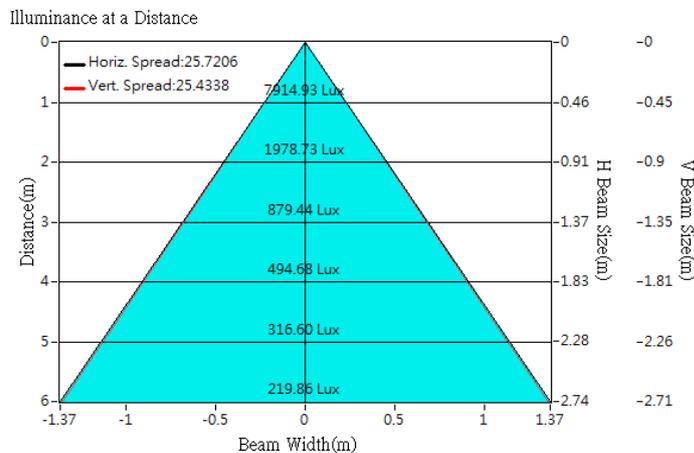
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CMT1420</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	26°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2252 lm	Measured @ 19.0 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

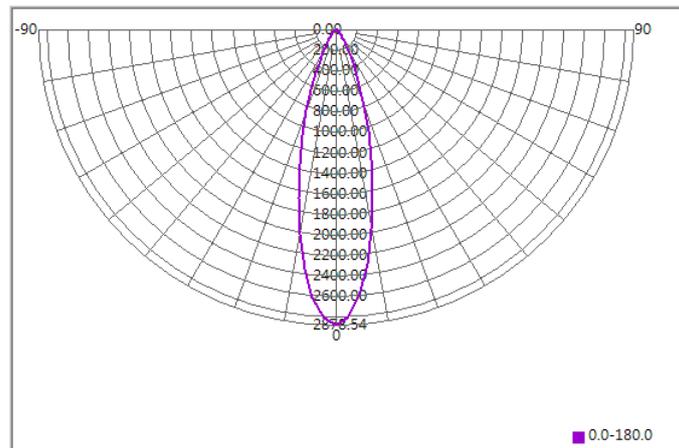




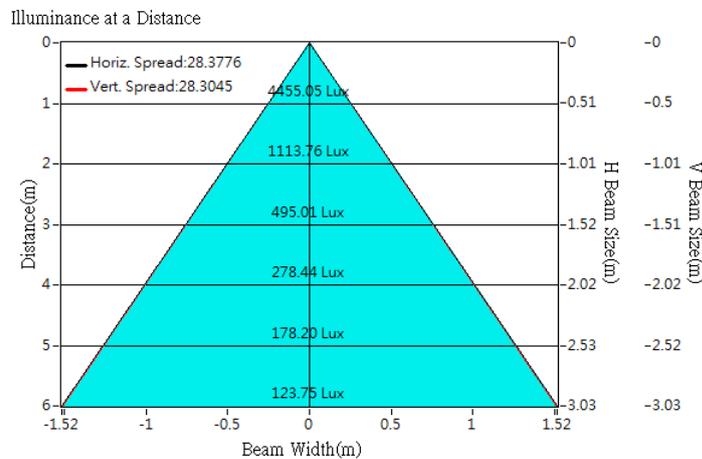
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CXA1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	28°		
Field Angle (D10)	57°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1547 lm	Measured @ 16.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

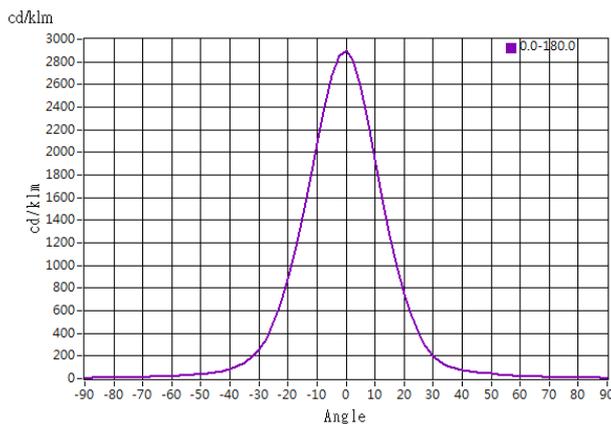




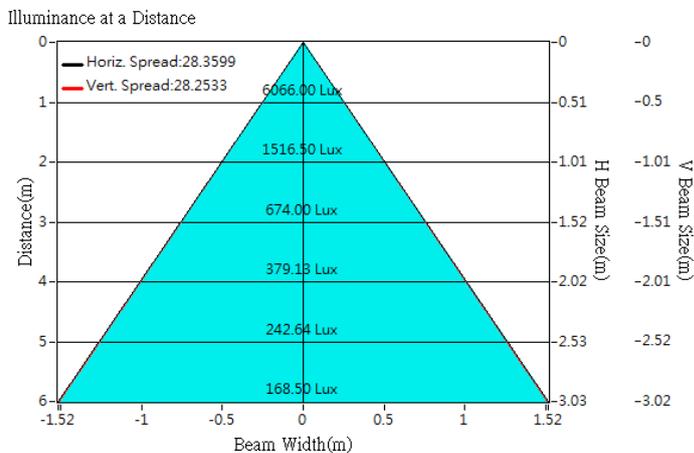
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CXB1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	28°		
Field Angle (D10)	57°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2094 lm	Measured @ 19.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

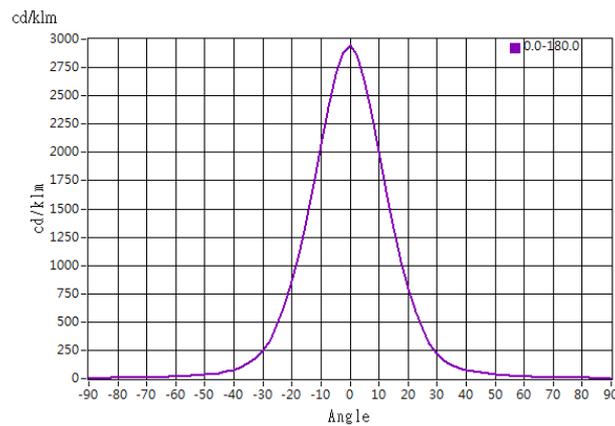




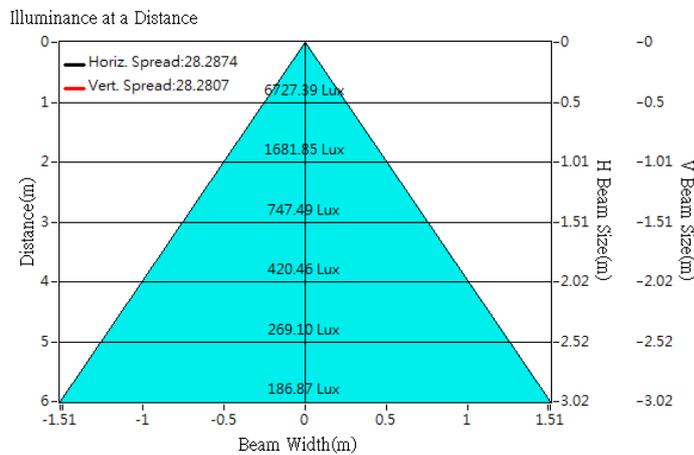
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CXB1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	28°		
Field Angle (D10)	57°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2282 lm	Measured @ 19.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

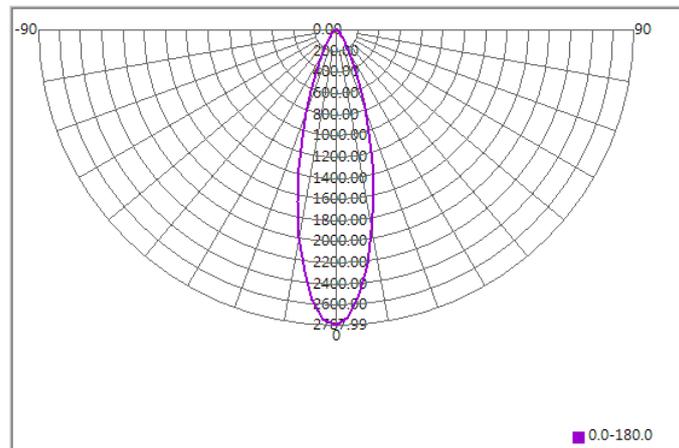




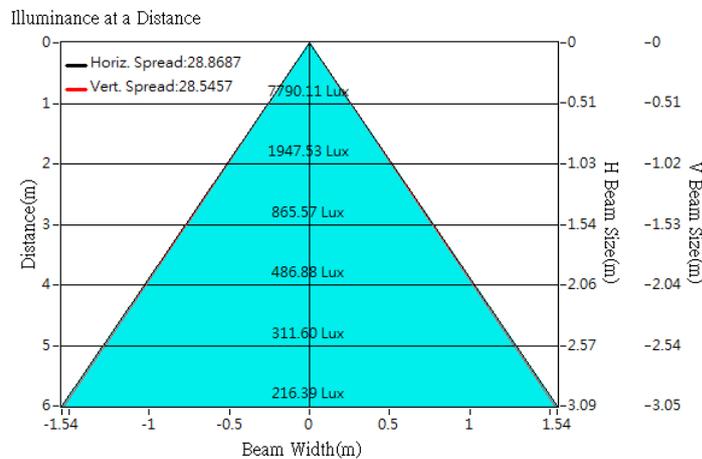
## Optical Characteristics

Model Number	CKO-CH17-060033-0203	<p>"H" definition</p>
LED	<b>CMA1825</b>	
LES / LED Size	Φ 12 mm	
FWHM (D50)	29°	
Field Angle (D10)	58°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=32.6 mm	
Luminous Flux	2794 lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

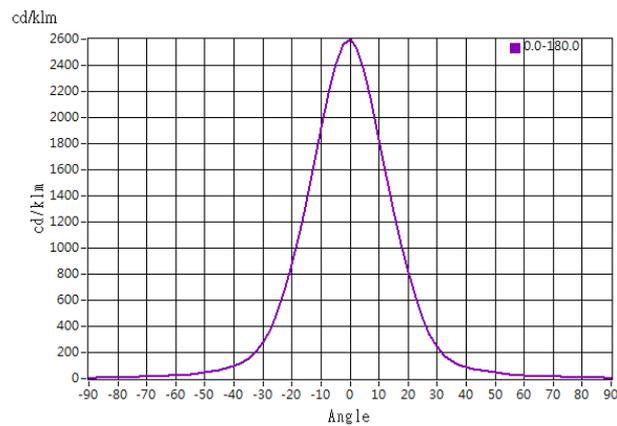




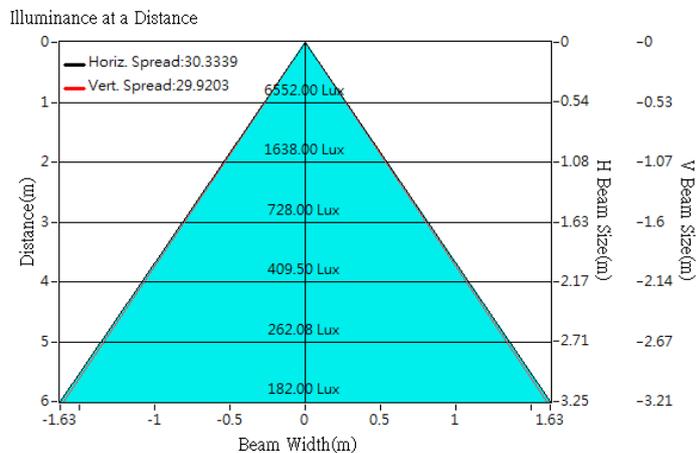
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CXA1830</b>		
LES / LED Size	Φ 14 mm		
FWHM (D50)	30°		
Field Angle (D10)	60°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2524 lm	Measured @ 27.4 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

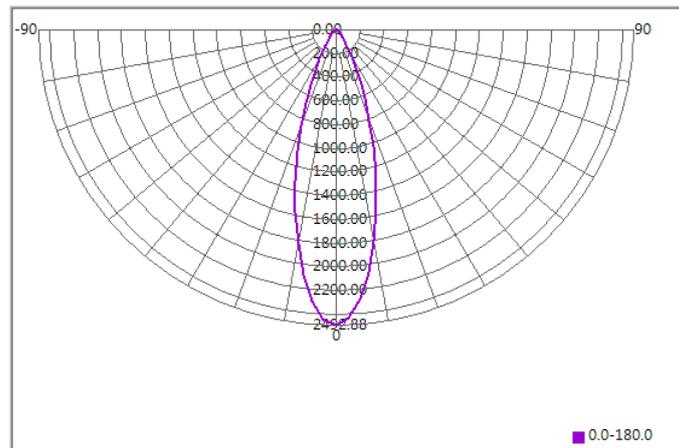




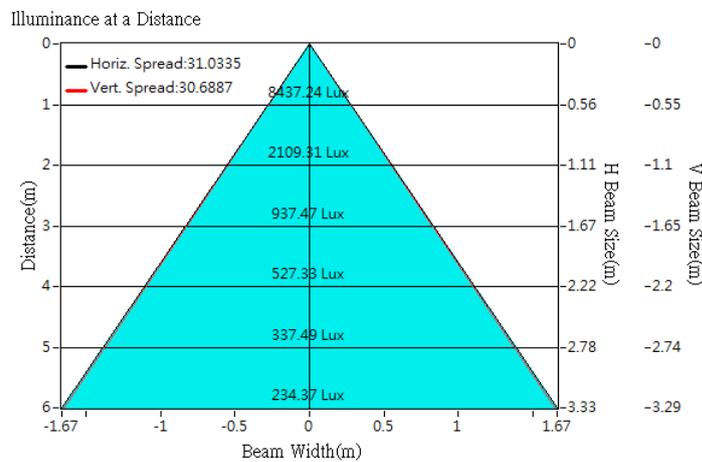
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	31°		
Field Angle (D10)	62°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	3384 lm	Measured @ 28.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

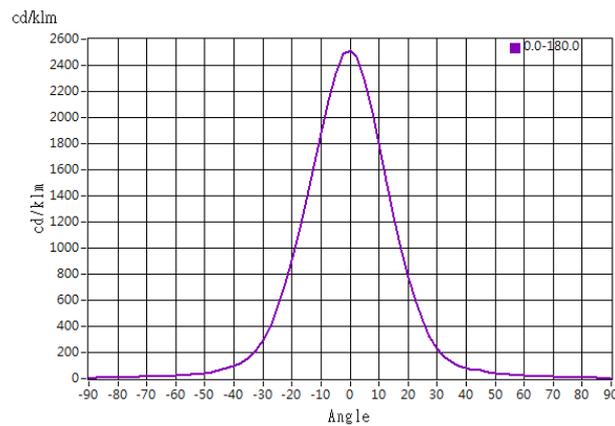




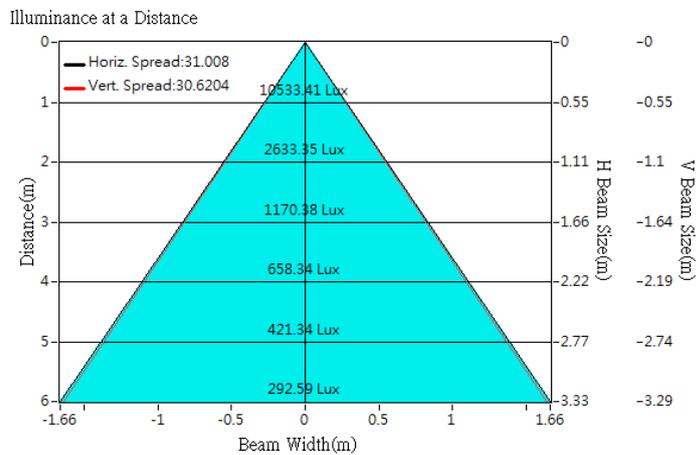
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CMA1840</b>		
LES / LED Size	Φ 14 mm		
FWHM (D50)	31°		
Field Angle (D10)	61°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	4195 lm	Measured @ 38.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

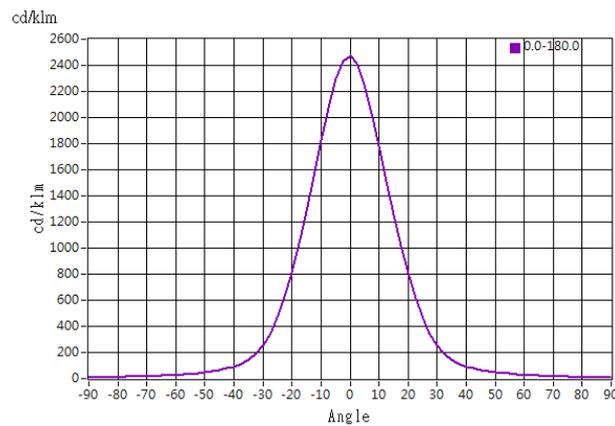




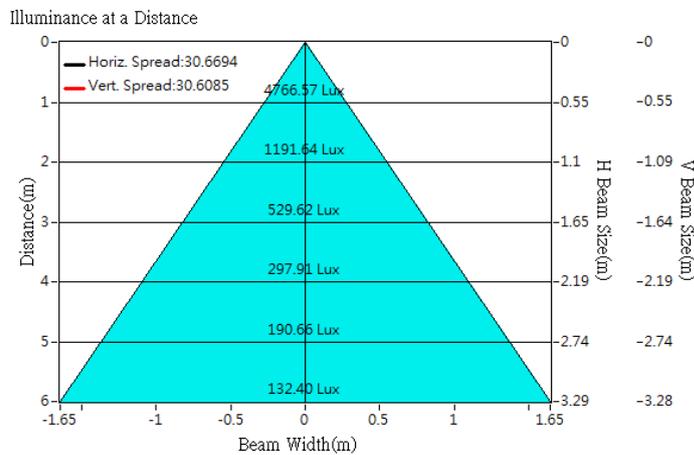
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CMT1922</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	31°		
Field Angle (D10)	60°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	1930 lm	Measured @ 15.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

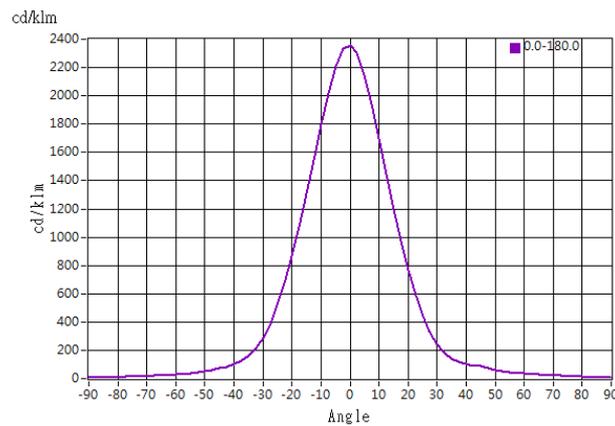




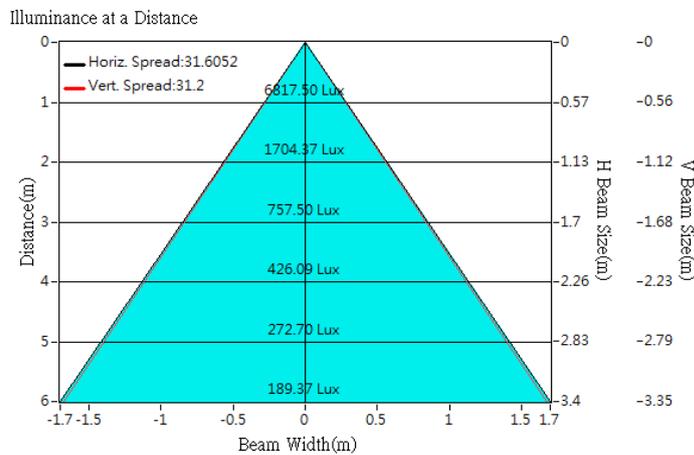
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CMT1925</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	32°		
Field Angle (D10)	62°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	2894 lm	Measured @ 25.0 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

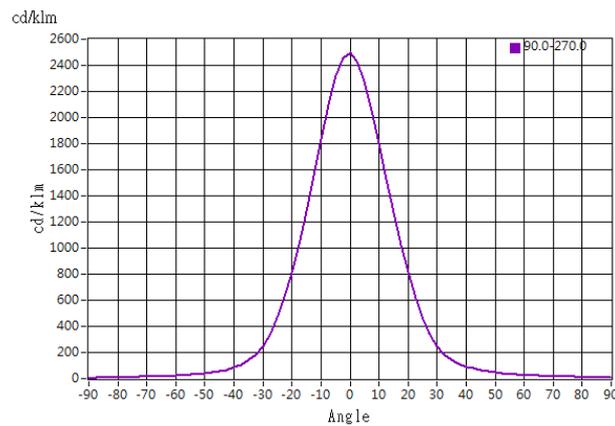




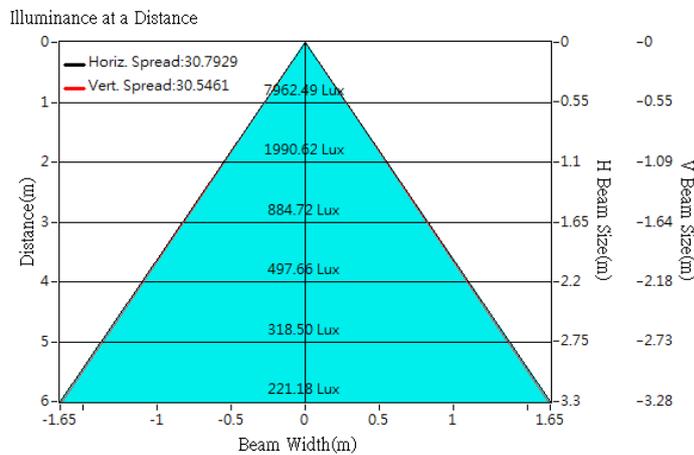
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CMT1930</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	31°		
Field Angle (D10)	61°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	3190 lm	Measured @ 29.0 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

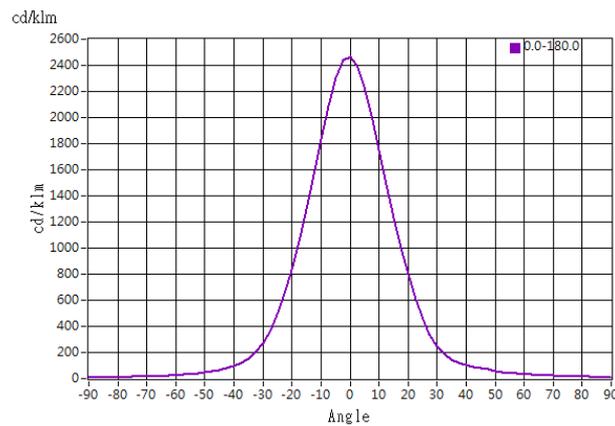




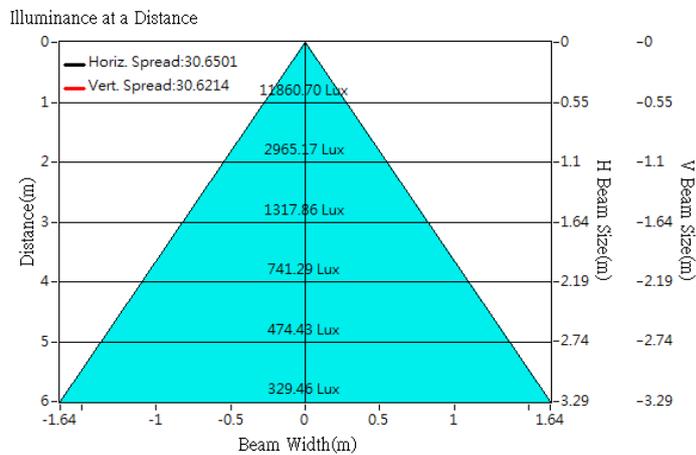
## Optical Characteristics

Model Number	CKO-CH17-060033-0203		<p>"H" definition</p>
LED	<b>CMT1945</b>		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	31°		
Field Angle (D10)	61°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=32.6 mm		
Luminous Flux	4810 lm	Measured @ 44.0 W	
Material	PC / UL94V2		

## cd/klm

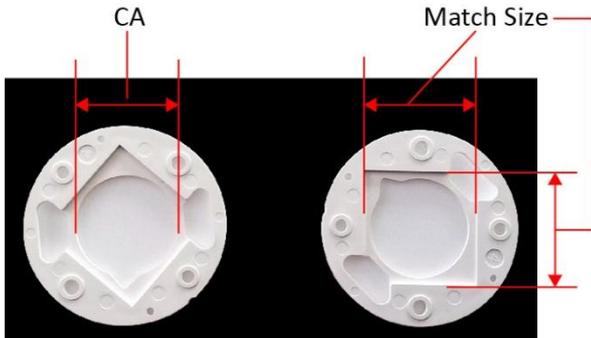


## Illuminance At Distances





## 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