



## Product Model Number

CKO-CH15-060027-4303

### ✓ Model Number Definitions

**CKO-XXXX-XXXXXX-XXXX**

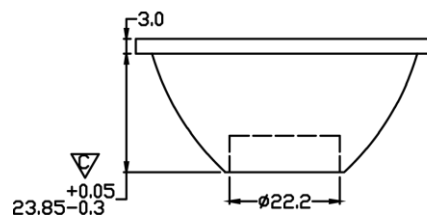
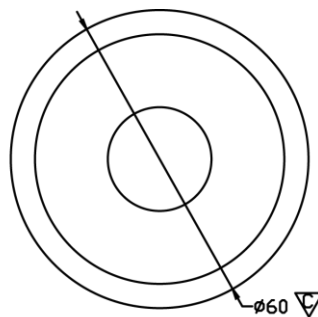


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation  
Ex:  
CH→CoB High Intensity  
CC→CoB Compact  
CS→Soft Shading for CoB LED  
HC→Holder for CoB LED

- 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

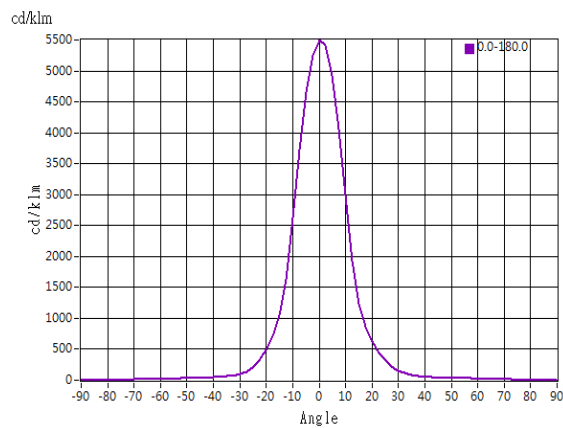
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1507	Φ9	20°	40°
CXB1507	Φ9	22°	43°
CXA1510	Φ9	21°	41°
CXA1512	Φ9	21°	41°
CXB1512	Φ9	21°	41°
CMA1516	Φ9	22°	43°
CXB1520	Φ9	21°	43°
CMT1407	Φ9.8	21°	42°
CMT1412	Φ9.8	21°	43°
CMT1420	Φ9.8	21°	43°
CXA1816	Φ12	23°	47°
CXB1816	Φ12	23°	46°
CXA1820	Φ12	24°	48°
CXB1820	Φ12	24°	46°
CMA1825	Φ12	24°	49°
CXA1830	Φ14	25°	50°
CXB1830	Φ14	25°	51°
CMA1840	Φ14	26°	54°
CMT1922	Φ14.5	26°	53°
CMT1925	Φ14.5	27°	54°
CMT1930	Φ14.5	26°	53°
CMT1945	Φ14.5	26°	53°



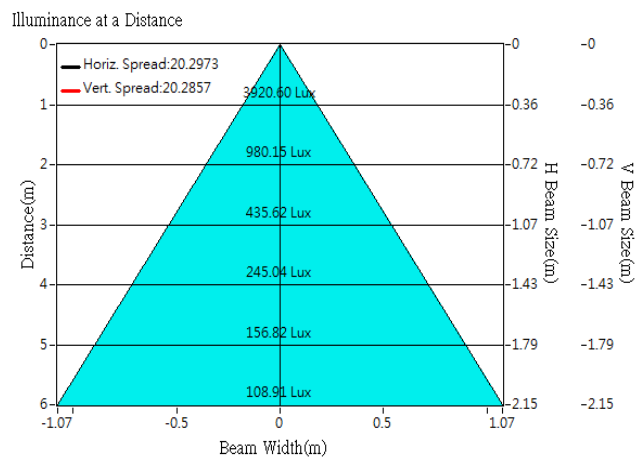
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p>
LED	<b>CXA1507</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	20°	
Field Angle (D10)	40°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	713 lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

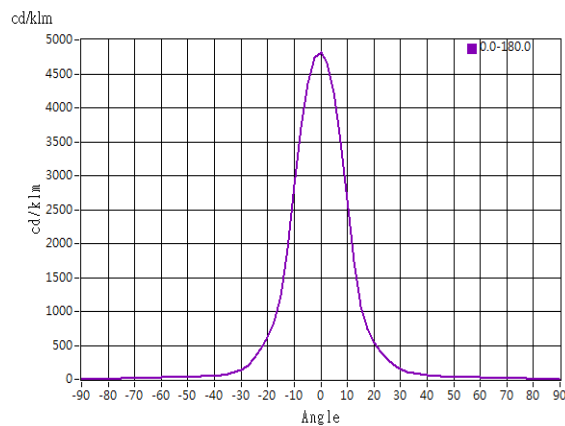




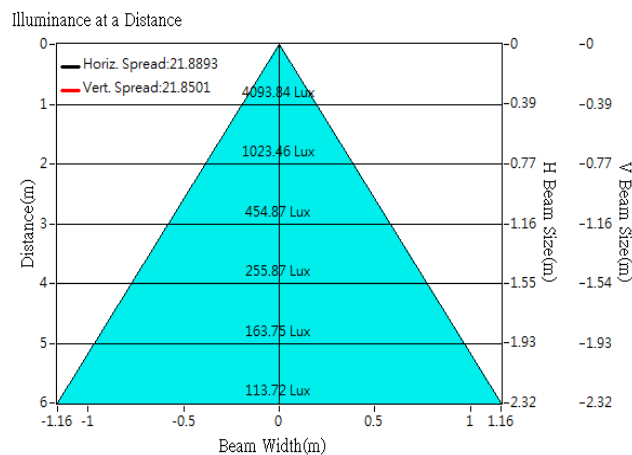
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CXB1507</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	22°	
Field Angle (D10)	43°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	851 lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

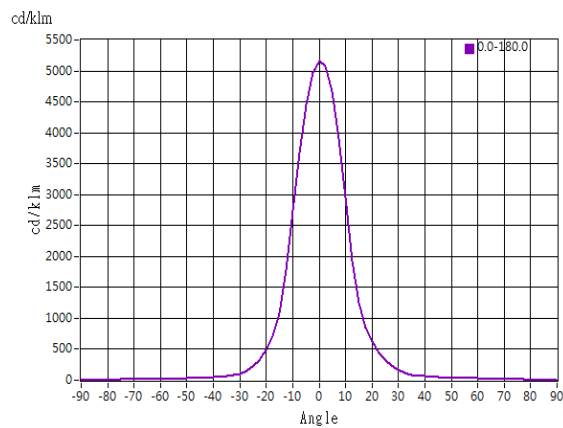




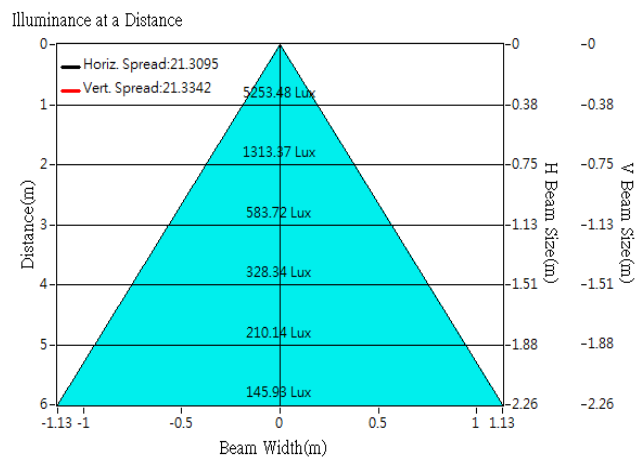
## Optical Characteristics

Model Number	CKO-CH15-060027-4303		<p>"H" definition</p>
LED	<b>CXA1510</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	21°		
Field Angle (D10)	41°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1017 lm	Measured @ 9.04 W	
Material	PC / UL94V2		

## cd/klm

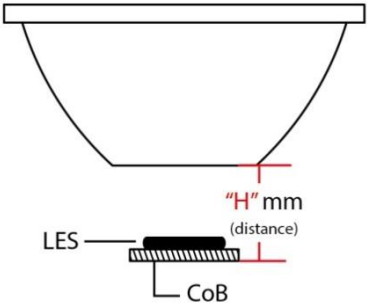


## Illuminance At Distances

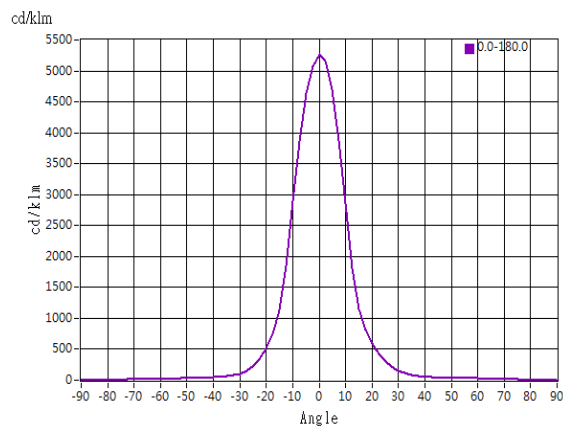




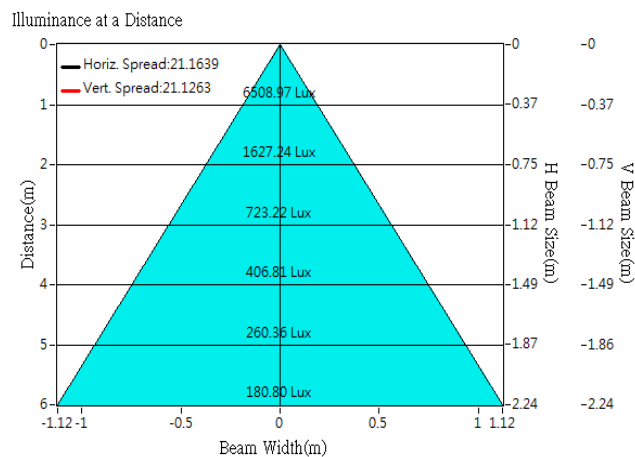
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p> 
LED	<b>CXA1512</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	21°	
Field Angle (D10)	41°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1238lm Measured @ 13.6 W	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

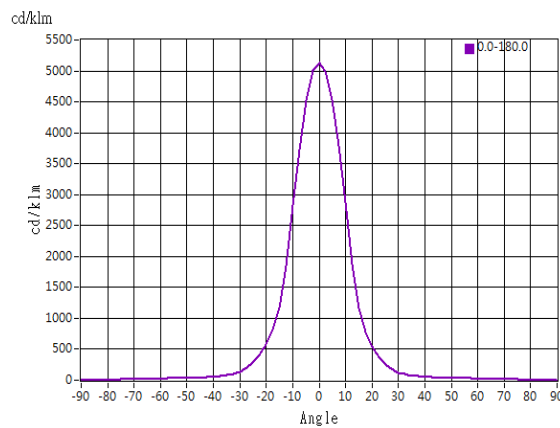




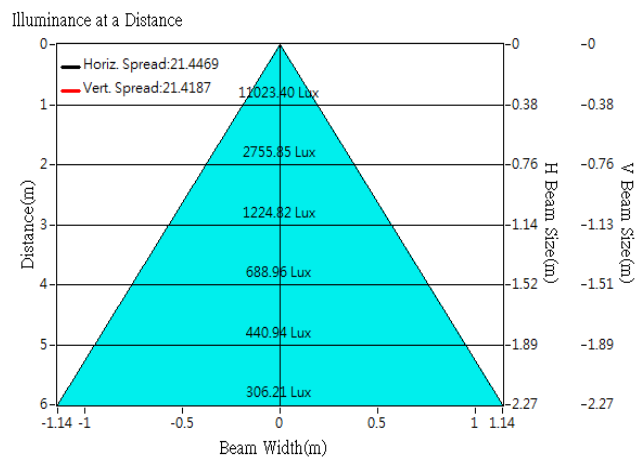
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CXB1512</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	21°	
Field Angle (D10)	41°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2150lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

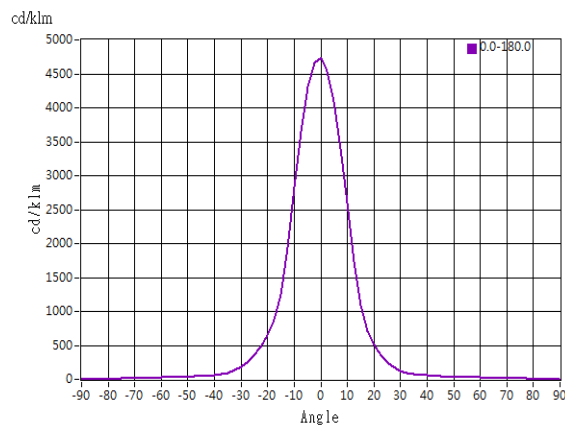




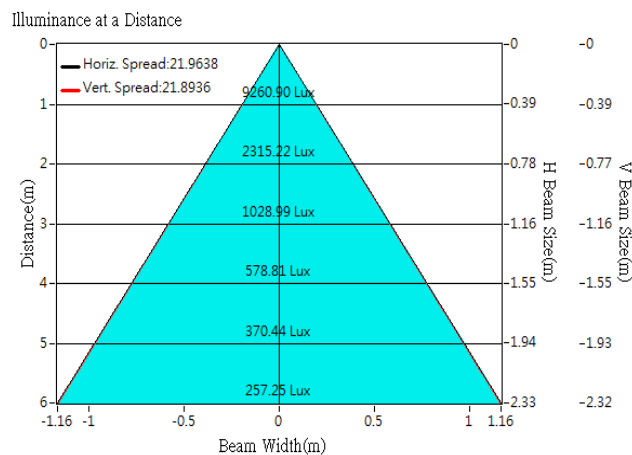
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMA1516</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	22°	
Field Angle (D10)	43°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1956 lm      Measured @ 15.9 W	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

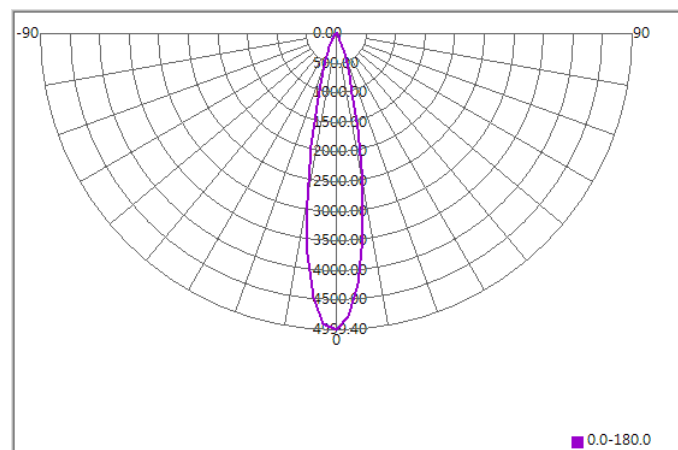




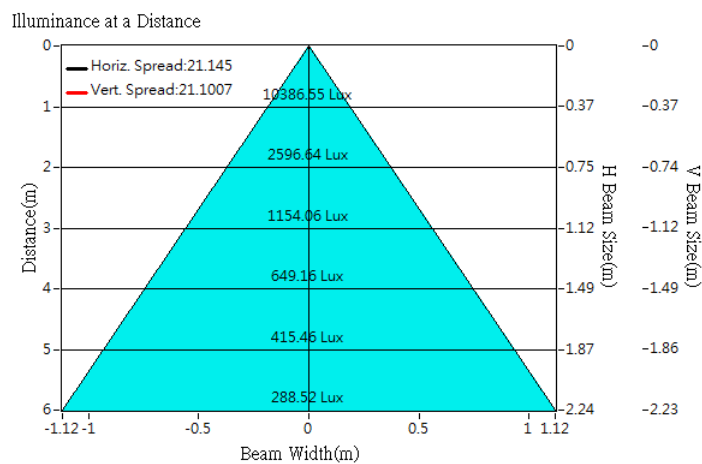
## Optical Characteristics

Model Number	CKO-CH15-060027-4303		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CXB1520</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	21°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness= 26.85mm		
Luminous Flux	2077 m	Measured @ 16.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

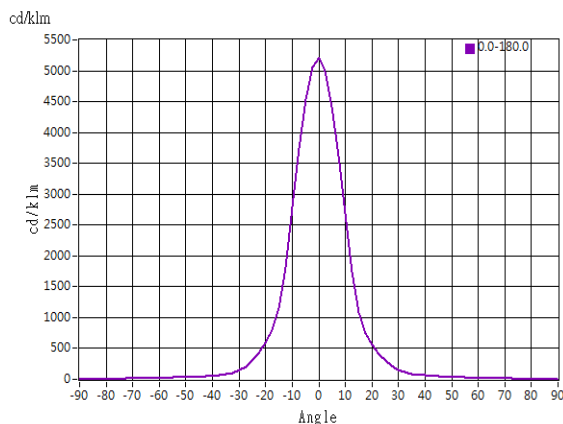




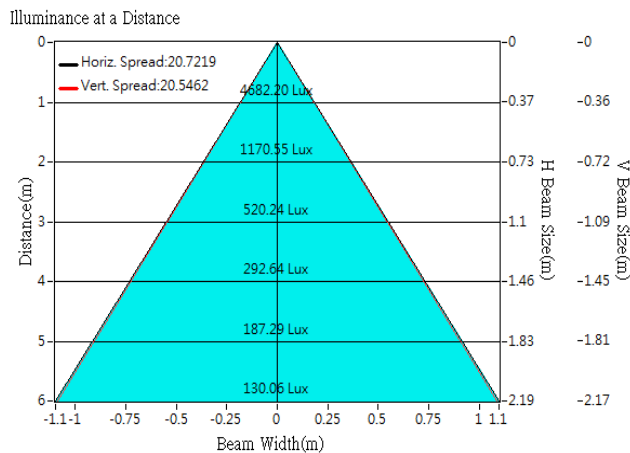
## Optical Characteristics

Model Number	CKO-CH15-060027-4303		<p>"H" definition</p>
LED	<b>CMT1407</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	42°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness= 26.85mm		
Luminous Flux	899.6 m	Measured @ 7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

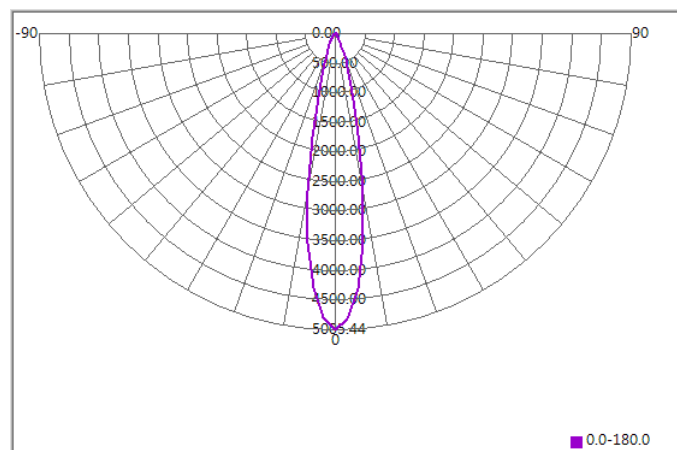




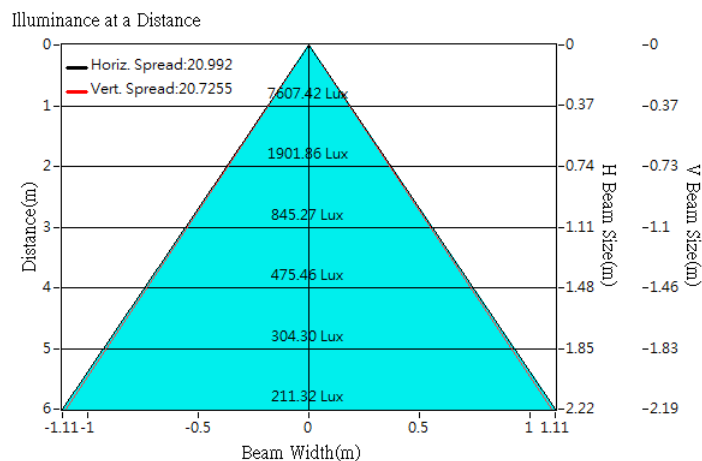
## Optical Characteristics

Model Number	CKO-CH15-060027-4303		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMT1412</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness= 26.85mm		
Luminous Flux	1519 m	Measured @ 12.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

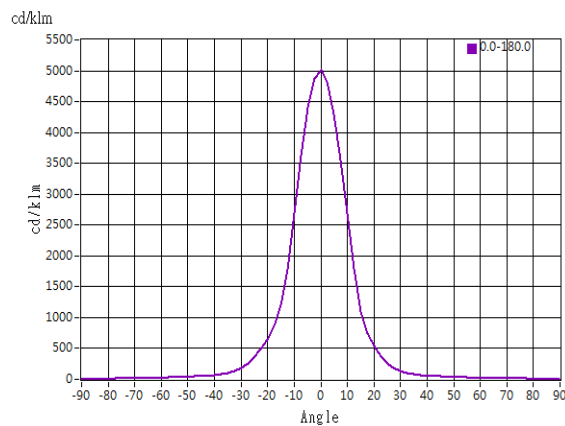




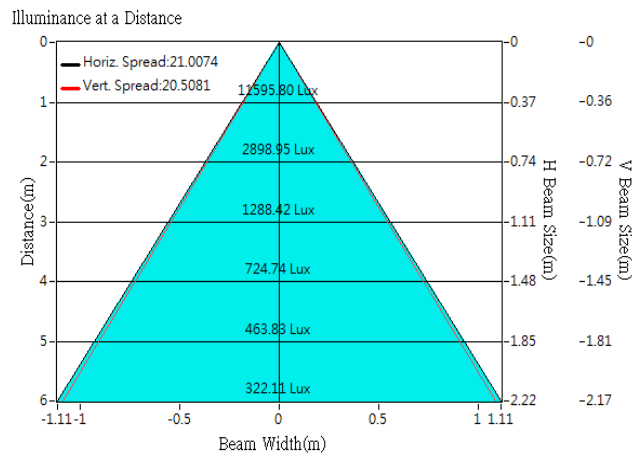
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p>
LED	<b>CMT1420</b>	
LES / LED Size	Φ 9.8 mm	
FWHM (D50)	21°	
Field Angle (D10)	43°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness= 26.85mm	
Luminous Flux	2312 m	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

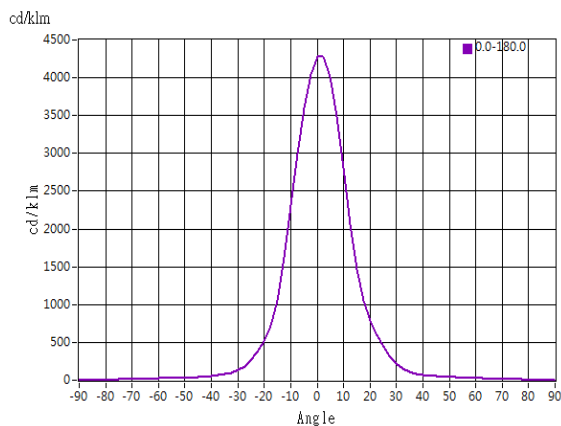




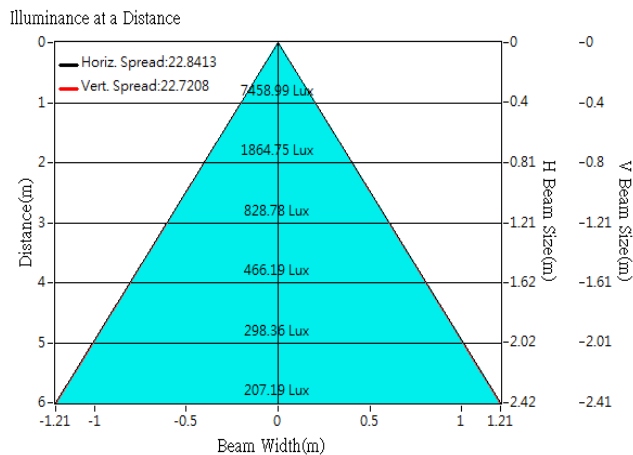
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CXA1816</b>	
LES / LED Size	Φ 12 mm	
FWHM (D50)	23°	
Field Angle (D10)	47°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1741 lm      Measured @ 16.8W	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

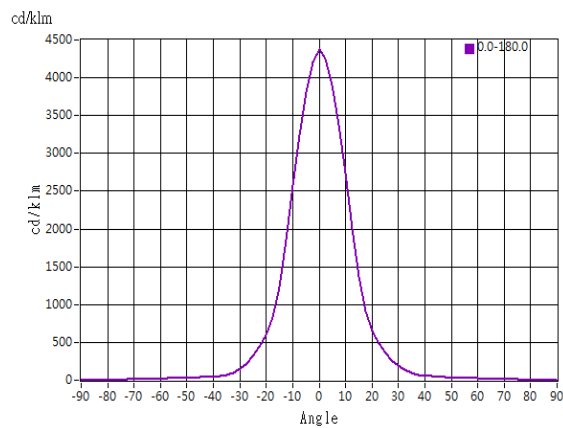




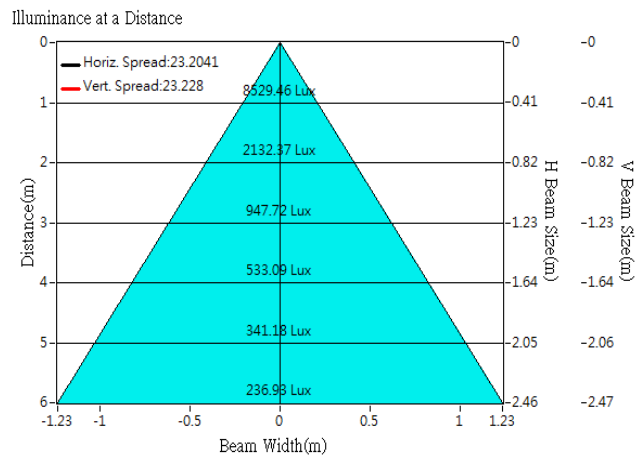
## Optical Characteristics

Model Number	CKO-CH15-060027-4303		<p>"H" definition</p>
LED	<b>CXB1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	23°		
Field Angle (D10)	46°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1946 lm	Measured @ 15.6W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

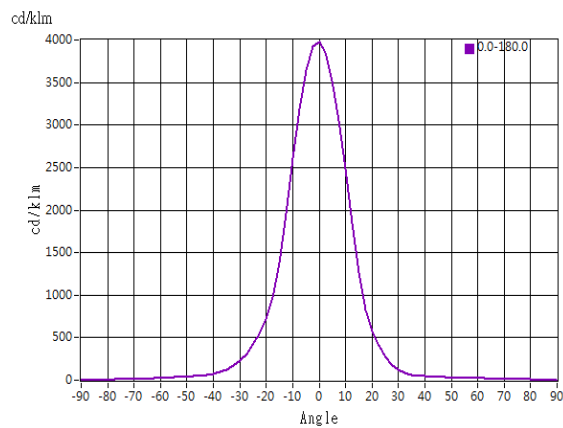




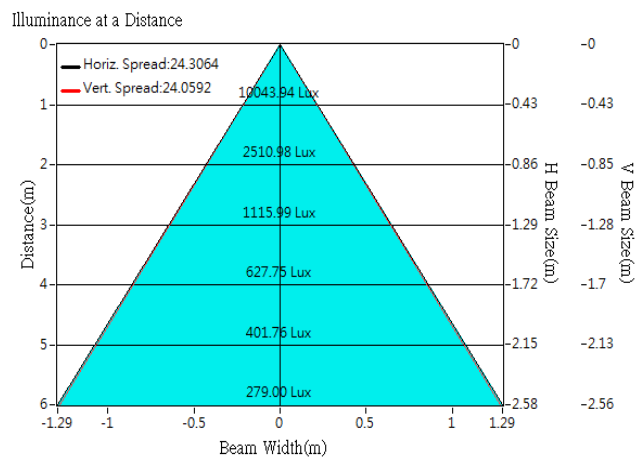
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CXA1820</b>	
LES / LED Size	Φ 12 mm	
FWHM (D50)	24°	
Field Angle (D10)	48°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2523 lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

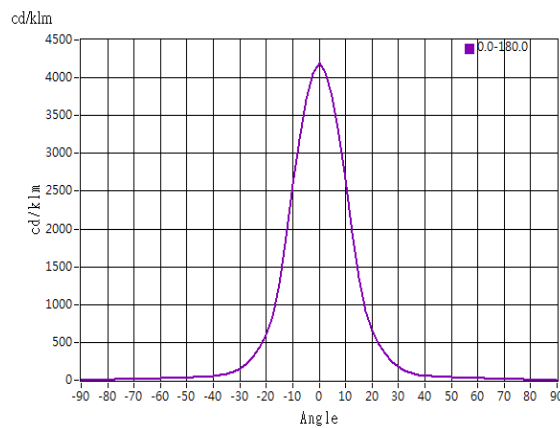




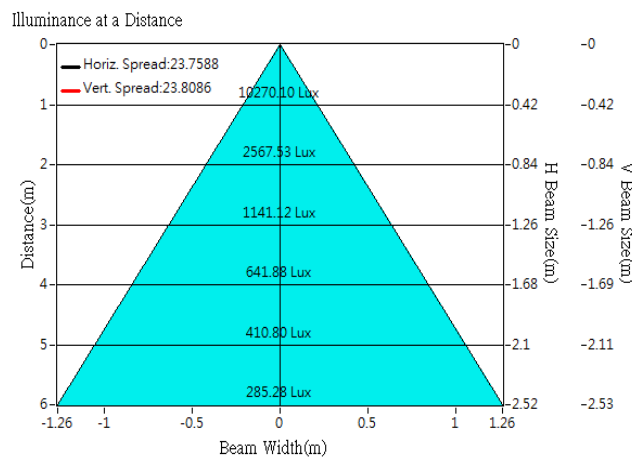
## Optical Characteristics

Model Number	CKO-CH15-060027-4303		<p>"H" definition</p>
LED	<b>CXB1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	24°		
Field Angle (D10)	46°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2447 lm	Measured @ 19.6W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

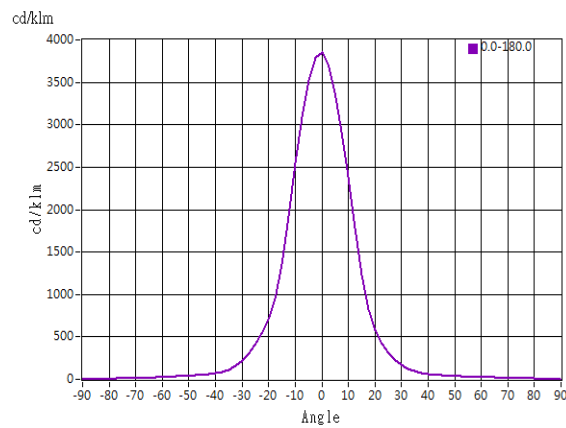




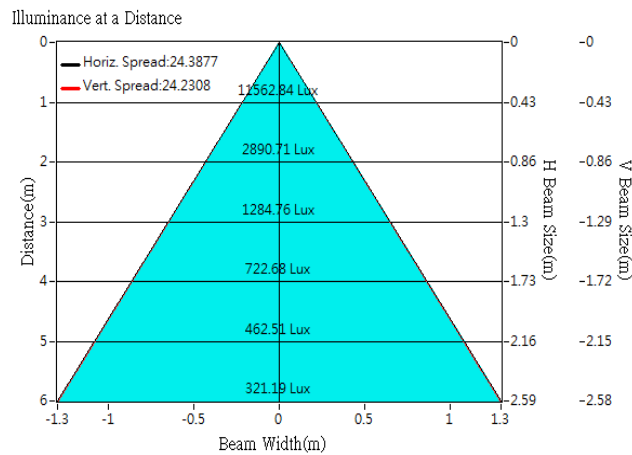
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p>
LED	<b>CMA1825</b>	
LES / LED Size	Φ 12 mm	
FWHM (D50)	24°	
Field Angle (D10)	49°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	3001 lm      Measured @ 25.1 W	
Material	PC / UL94V2	

## cd/klm

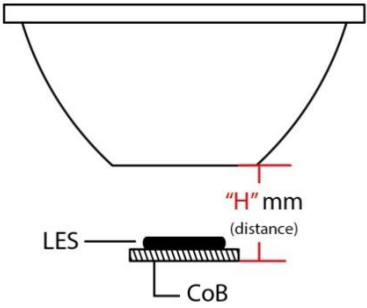


## Illuminance At Distances

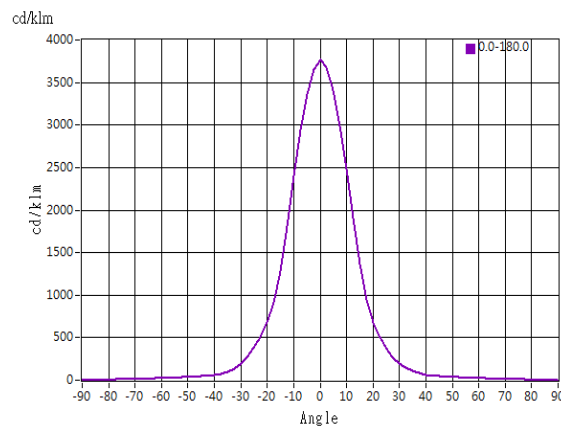




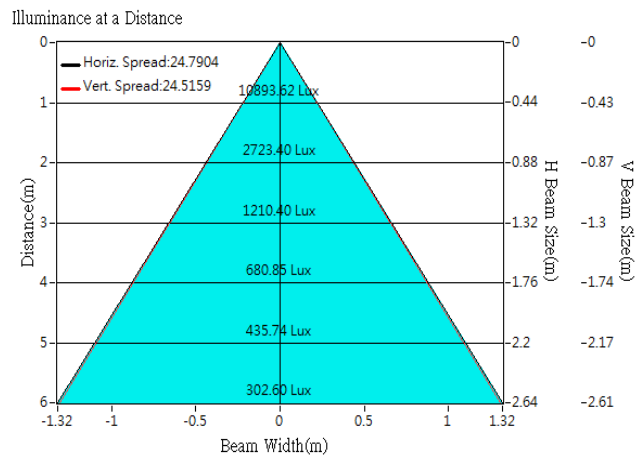
## Optical Characteristics

Model Number	CKO-CH15-060027-4303		<p>"H" definition</p> 
LED	<b>CXA1830</b>		
LES / LED Size	Φ 14 mm		
FWHM (D50)	25°		
Field Angle (D10)	50°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2891 lm	Measured @ 28.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

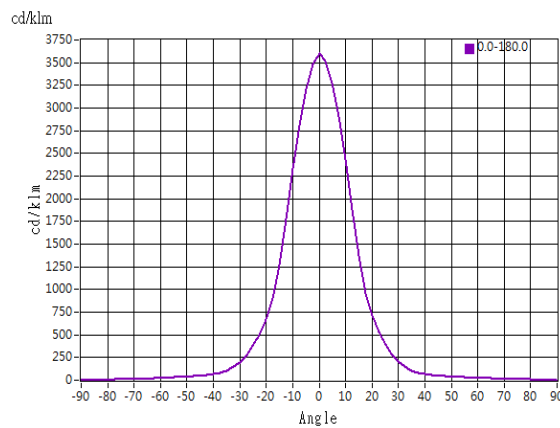




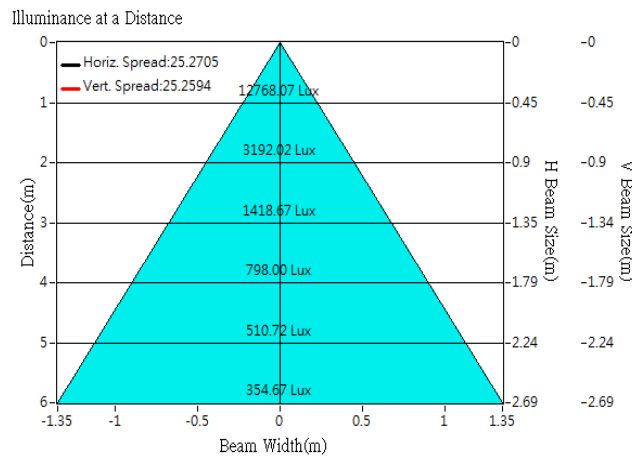
## Optical Characteristics

Model Number	CKO-CH15-060027-4303		<p>"H" definition</p>
LED	<b>CXB1830</b>		
LES / LED Size	Φ 14 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	3544 lm	Measured @ 28.4 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

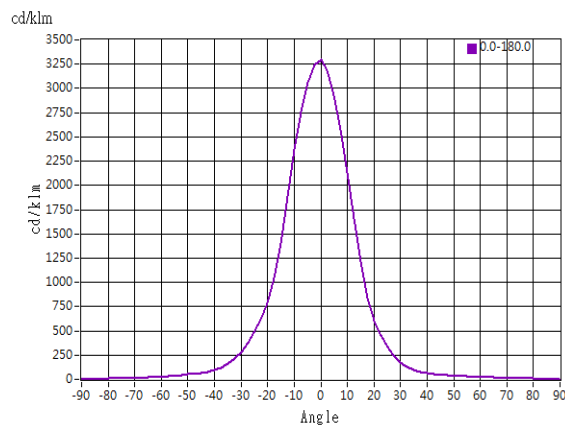




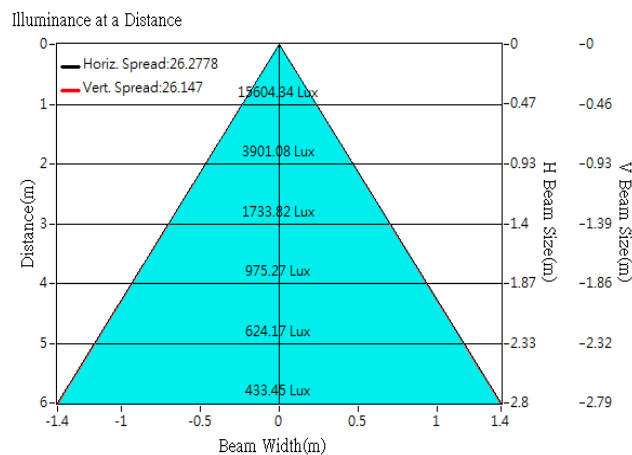
## Optical Characteristics

Model Number	CKO-CH15-060027-4303		<p>"H" definition</p>
LED	<b>CMA1840</b>		
LES / LED Size	Φ 14 mm		
FWHM (D50)	26°		
Field Angle (D10)	54°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	4734 lm	Measured @ 38.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

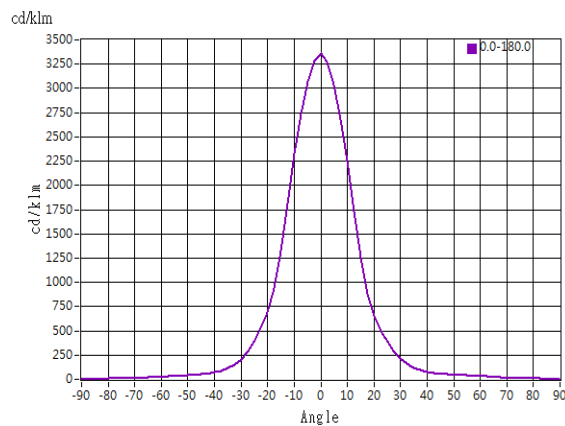




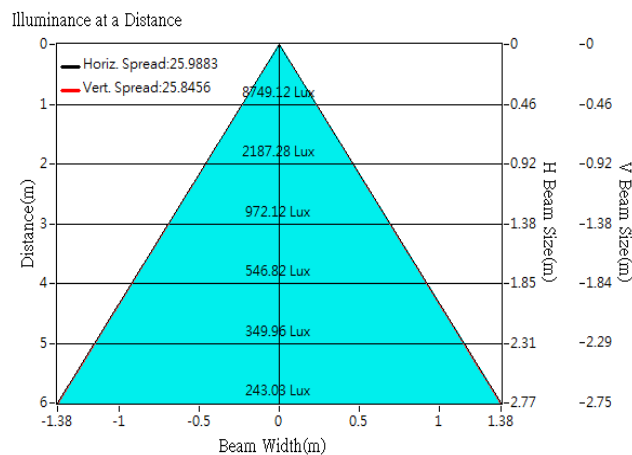
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMT1922</b>	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	26°	
Field Angle (D10)	53°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2604 lm Measured @ 21.8 W	
Material	PC / UL94V2	

## cd/klm

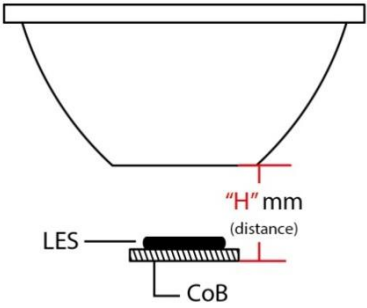


## Illuminance At Distances

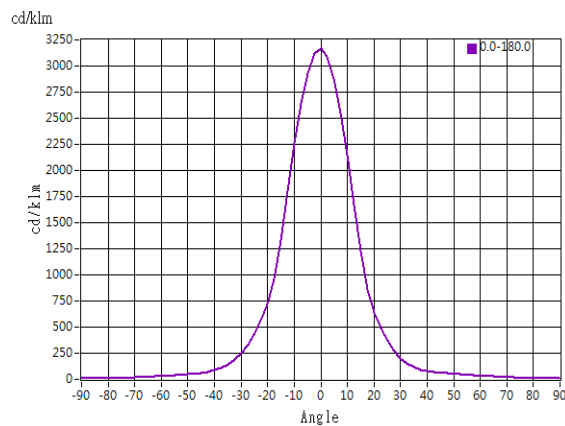




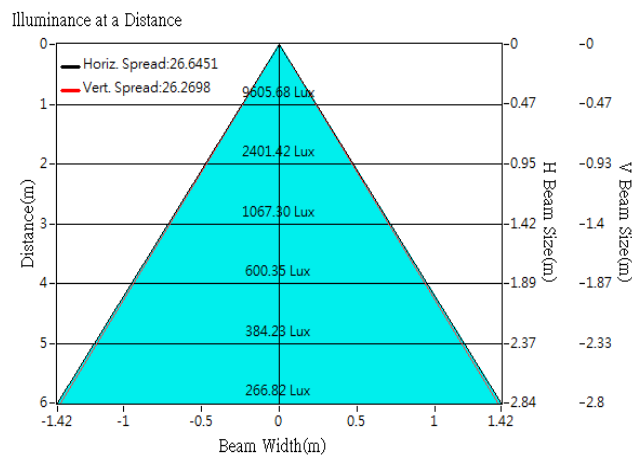
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p> 
LED	<b>CMT1925</b>	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	27°	
Field Angle (D10)	54°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	3029 lm      Measured @ 25.2 W	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances

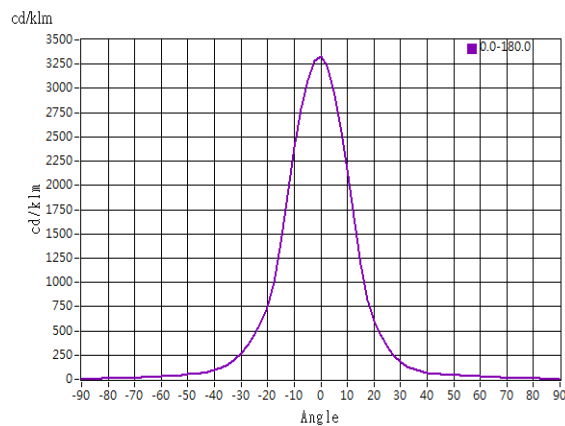




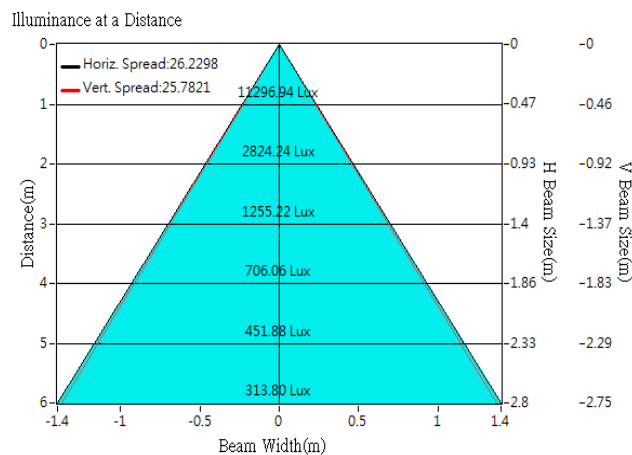
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p>
LED	<b>CMT1930</b>	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	26°	
Field Angle (D10)	53°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	3400 lm	
Material	PC / UL94V2	

## cd/klm

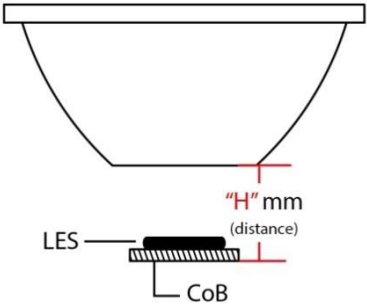


## Illuminance At Distances

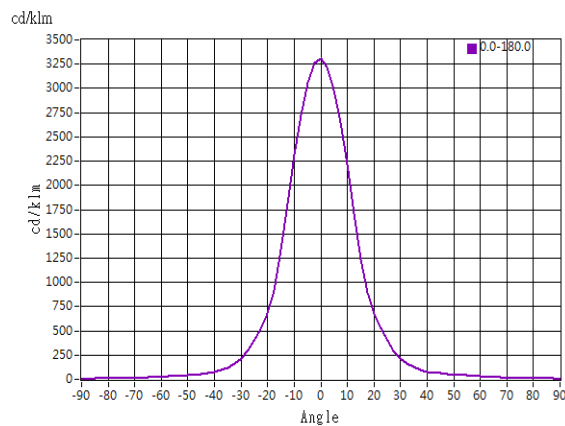




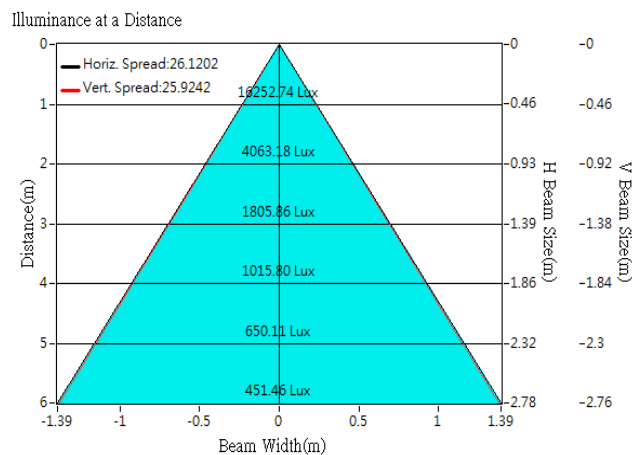
## Optical Characteristics

Model Number	CKO-CH15-060027-4303	<p>"H" definition</p> 
LED	<b>CMT1945</b>	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	26°	
Field Angle (D10)	53°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	4909 lm      Measured @ 44.7 W	
Material	PC / UL94V2	

## cd/klm

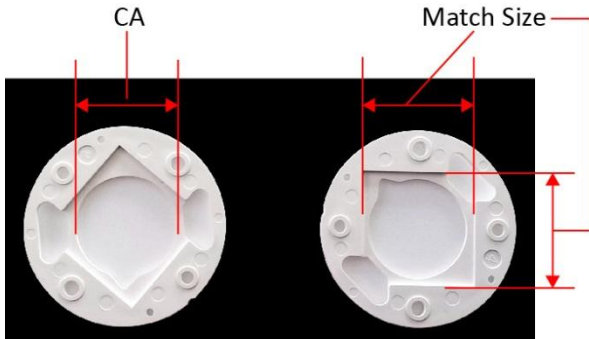


## Illuminance At Distances





## 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