

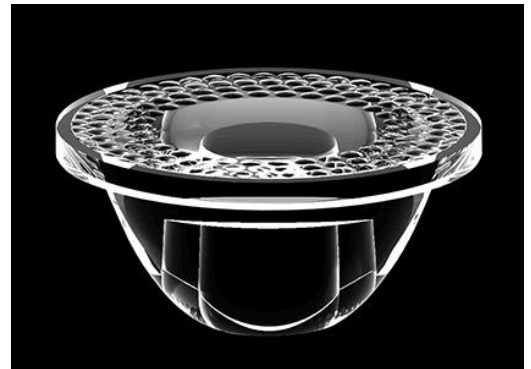


## Product Model Number

**CKO-CS17-045021-1360**

### ✓ Model Number Definitions

**CKO-XXXX-XXXXXX-XXXX**

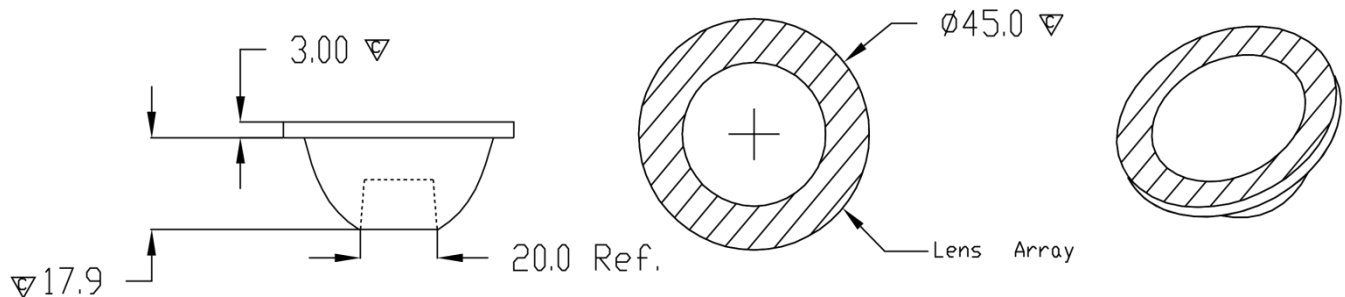


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation  
Ex:  
CH→CoB High Intensity  
CC→CoB Compact  
CS→Soft Shading for CoB LED  
HC→Holder for CoB LED

- 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) : Φ45 x 20.9



▽:Critical Dimension



✓ Optical Characteristics – Angle Performances

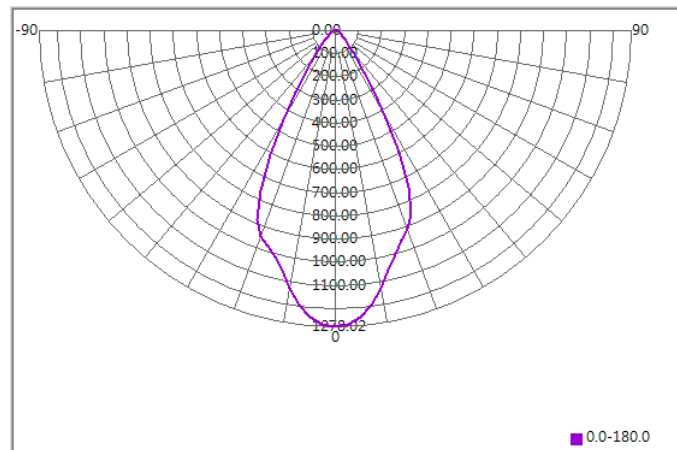
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CMA1303	Φ4.5	54°	80°
CXA1304	Φ6	56°	83°
CXB1304	Φ6	56°	83°
CMA1306	Φ6	53°	82°
CXB1310	Φ6	56°	83°
CXA1507	Φ9	55°	82°
CXA1512	Φ9	54°	83°
CXB1512	Φ9	56°	85°
CMA1516	Φ9	58°	87°
CXB1520	Φ9	55°	84°
CMT1407	Φ9.8	55°	83°
CMT1412	Φ9.8	53°	82°
CMT1420	Φ9.8	55°	83°
CXA1816	Φ12	55°	86°
CXB1816	Φ12	56°	88°
CXA1820	Φ12	57°	89°
CXB1820	Φ12	58°	88°
CMA1825	Φ12	56°	87°



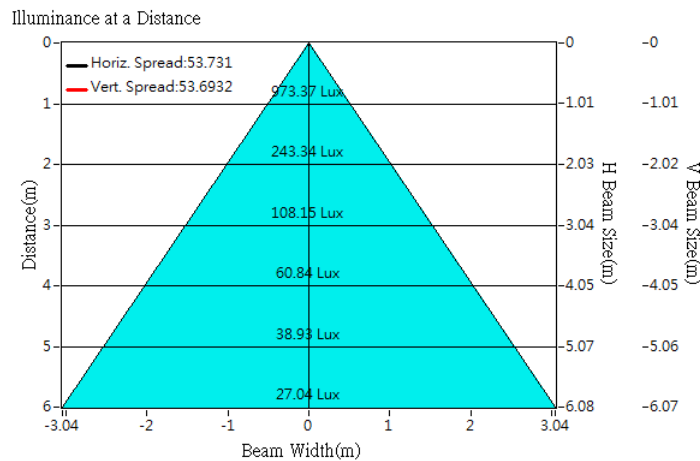
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMA1303</b>		
LES / LED Size	Φ 4.5 mm		
FWHM (D50)	54°		
Field Angle (D10)	80°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	761 lm	Measured @ 6.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

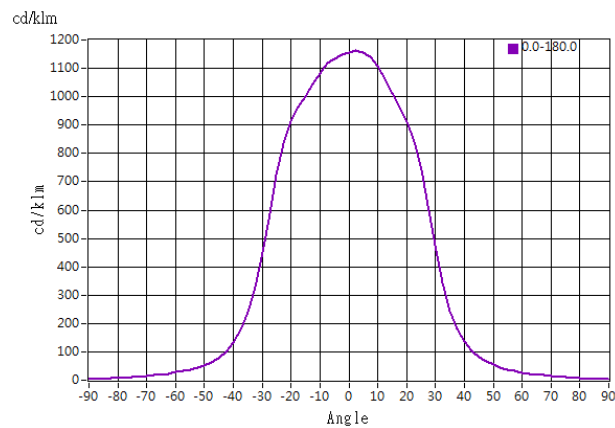




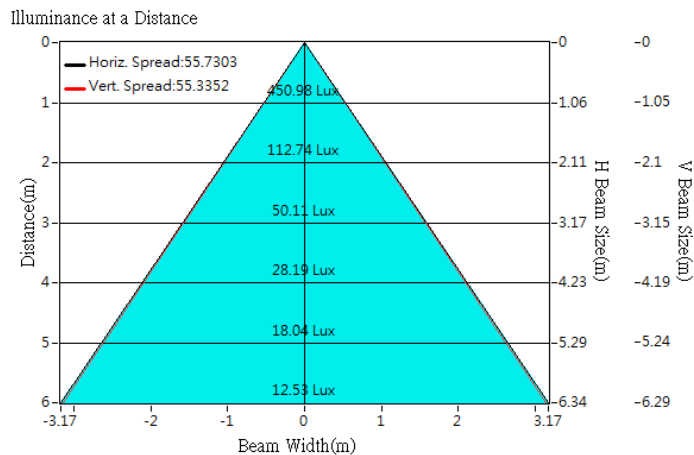
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	<b>CXA1304</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	56°		
Field Angle (D10)	83°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	390 lm	Measured @ 3.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

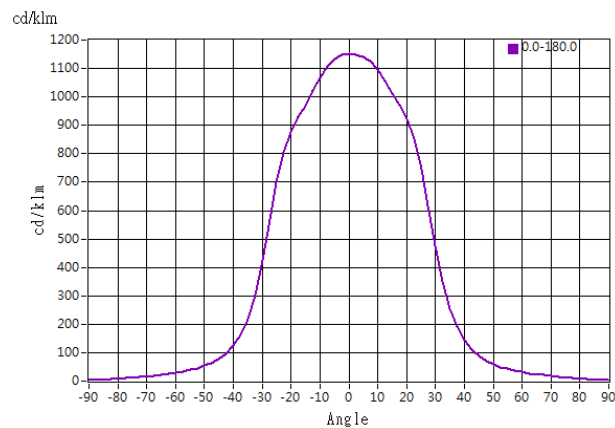




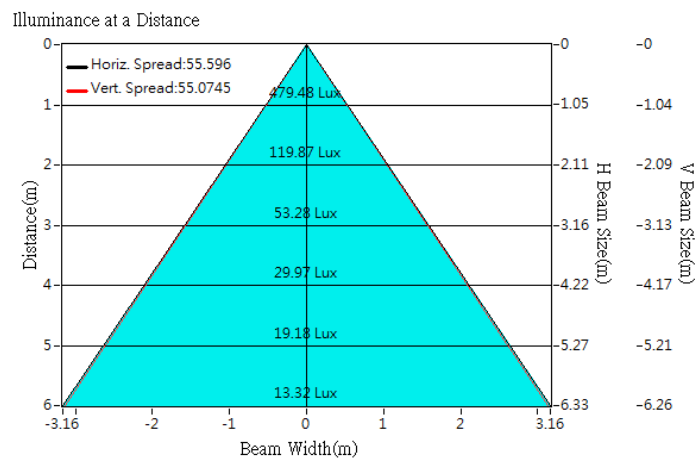
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	<b>CXB1304</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	56°		
Field Angle (D10)	83°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	417 lm	Measured @ 3.5 W	
Material	PC / UL94V2		

## cd/klm

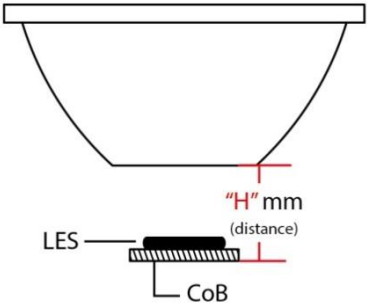


## Illuminance At Distances

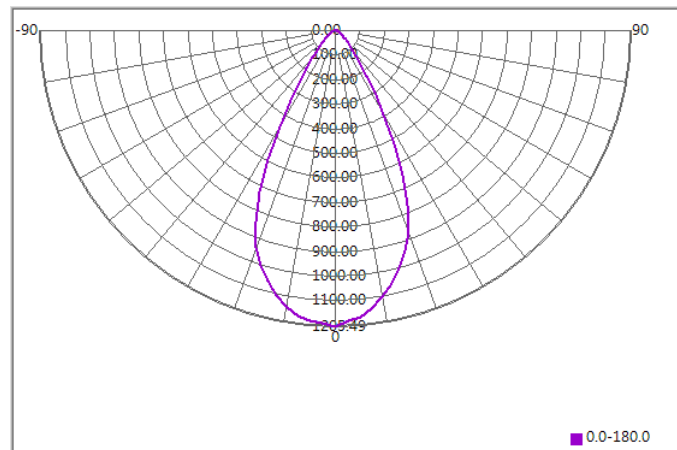




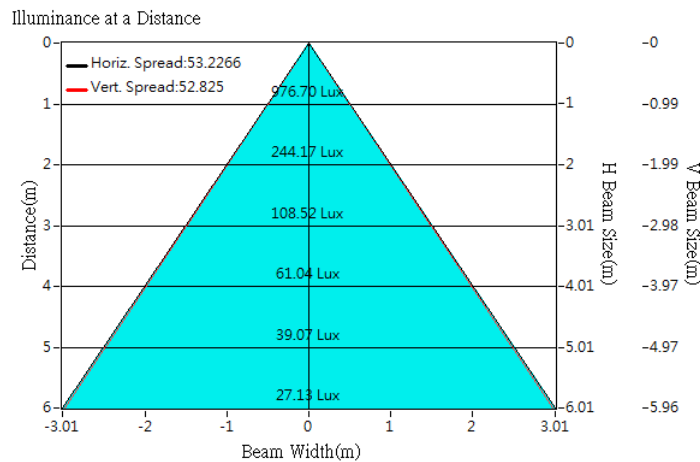
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p> 
LED	<b>CMA1306</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	53°		
Field Angle (D10)	82°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	810 lm	Measured @ 6.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

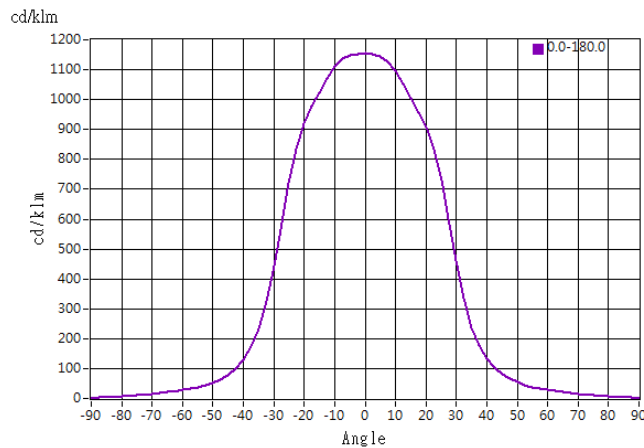




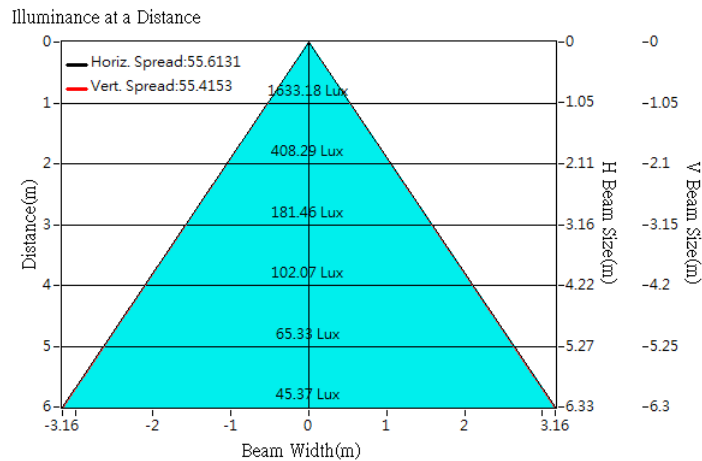
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	<b>CXB1310</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	56°		
Field Angle (D10)	83°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1414 lm	Measured @ 11.8 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

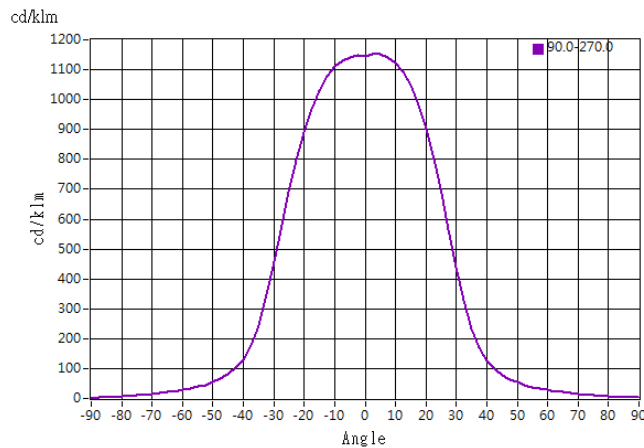




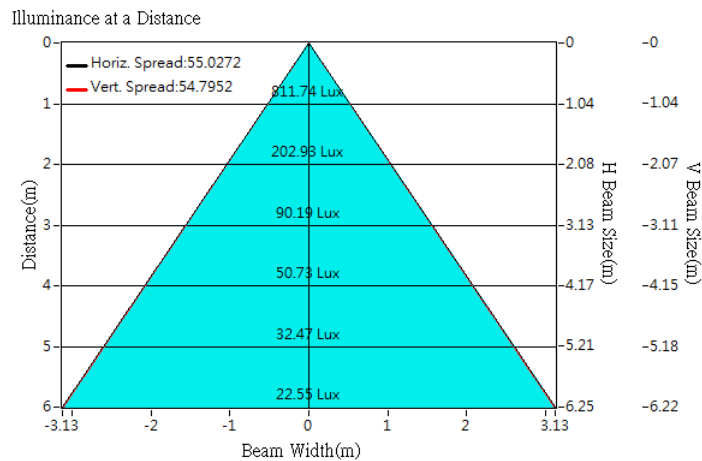
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	55°		
Field Angle (D10)	82°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	709 lm	Measured @ 7.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

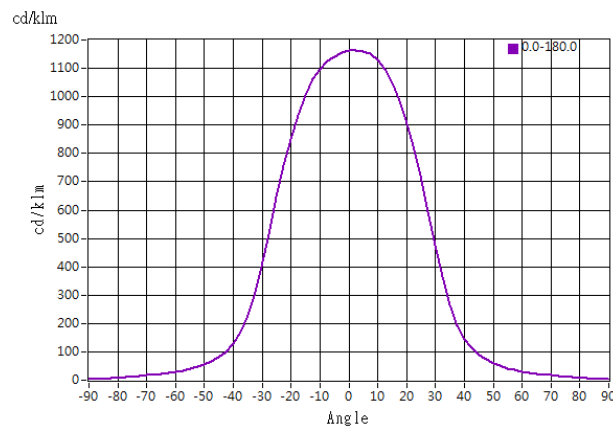




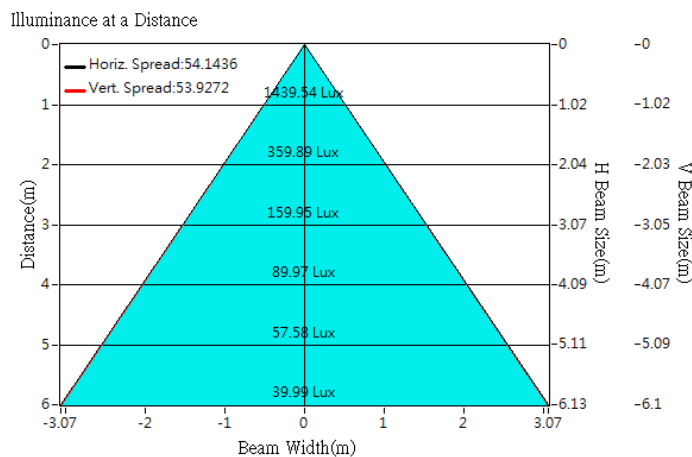
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p> <p>LES CoB "H" mm (distance)</p>
LED	<b>CXA1512</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	54°		
Field Angle (D10)	83°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1238 lm	Measured @ 13.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

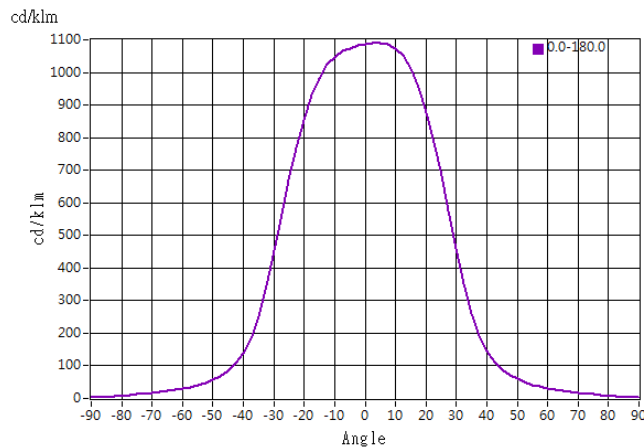




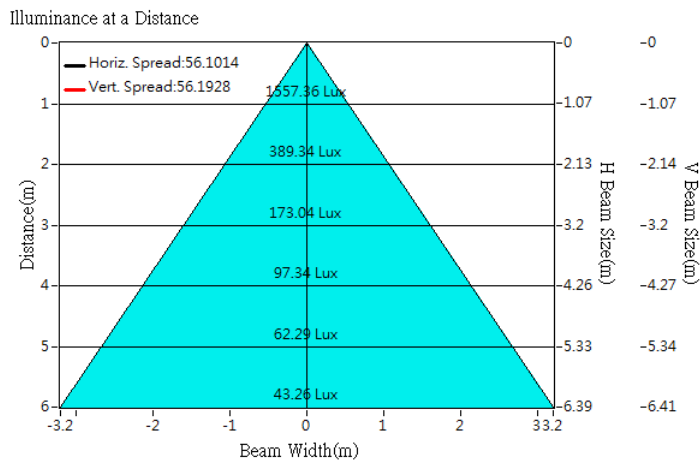
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	<b>CXB1512</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	56°		
Field Angle (D10)	85°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1434 lm	Measured @ 12.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

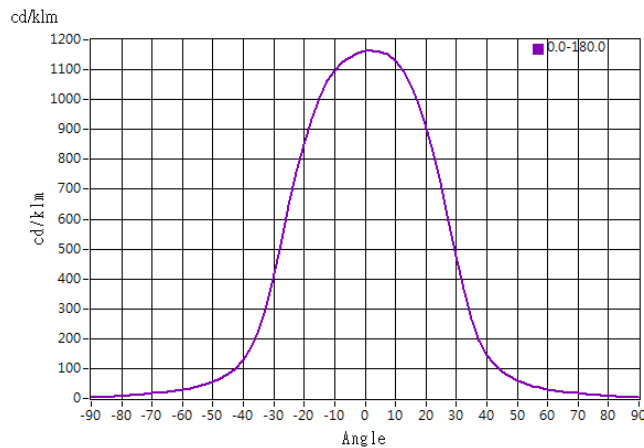




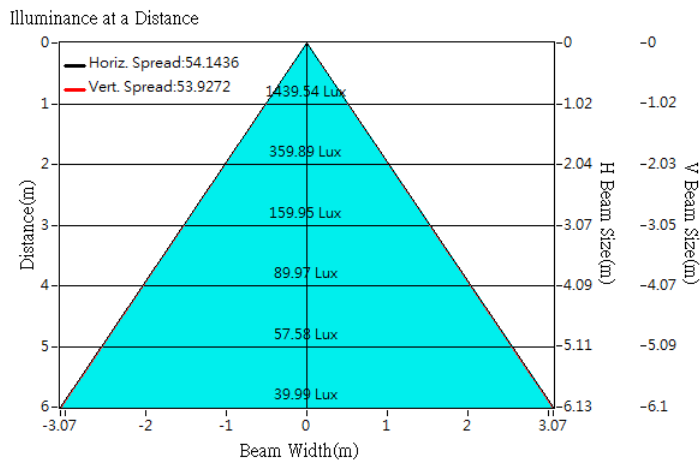
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	CXA1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	54°		
Field Angle (D10)	83°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1238 lm	Measured @ 13.1 W	
Material	PC / UL94V2		

## cd/klm

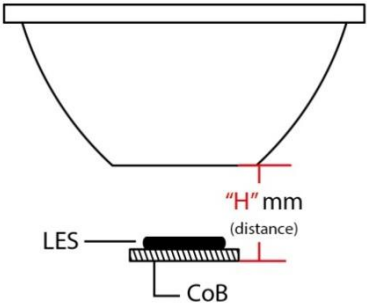


## Illuminance At Distances

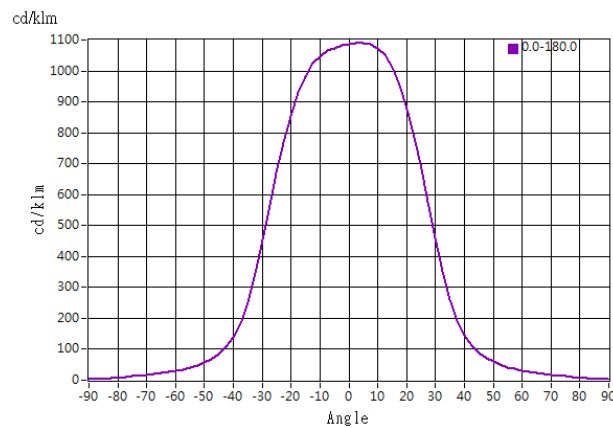




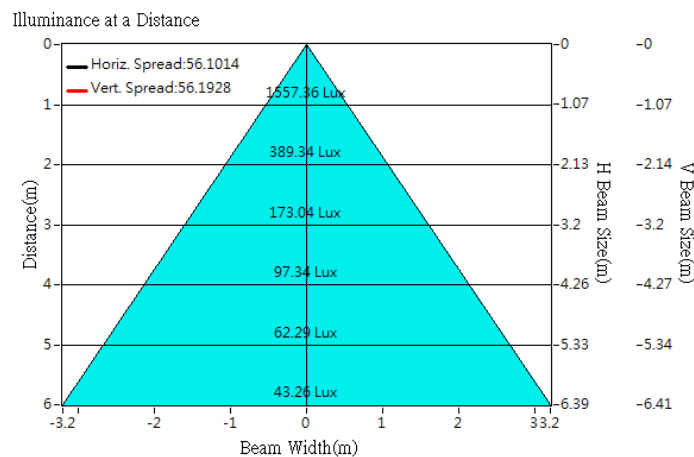
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p> 
LED	<b>CXB1512</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	56°		
Field Angle (D10)	85°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1434 lm	Measured @ 12.4 W	
Material	PC / UL94V2		

## cd/klm

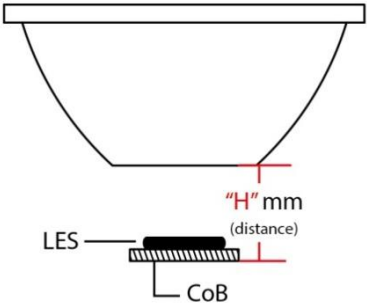


## Illuminance At Distances

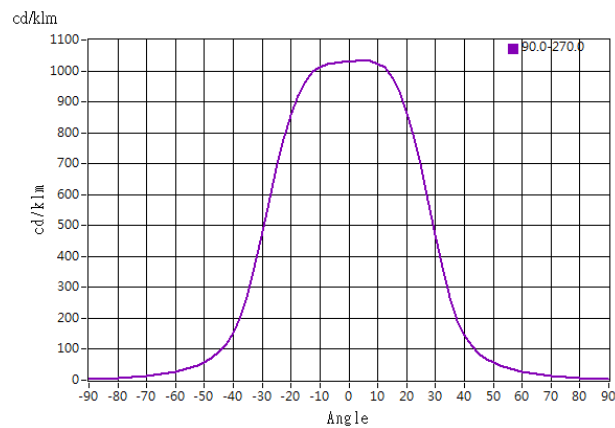




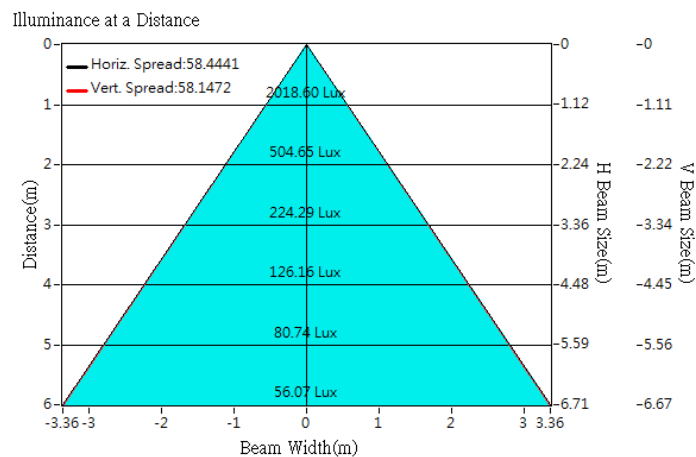
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p> 
LED	<b>CMA1516</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	58°		
Field Angle (D10)	87°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1963 lm	Measured @ 15.5W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

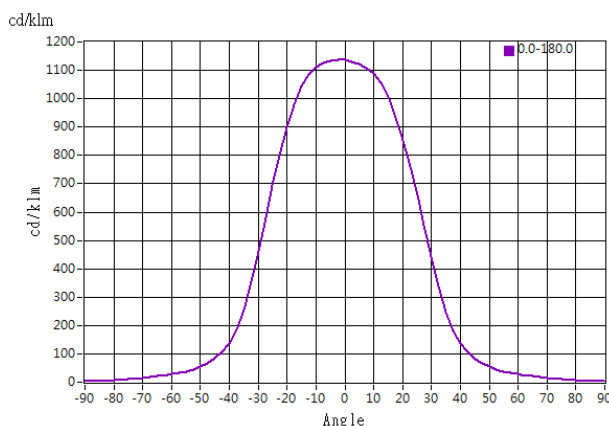




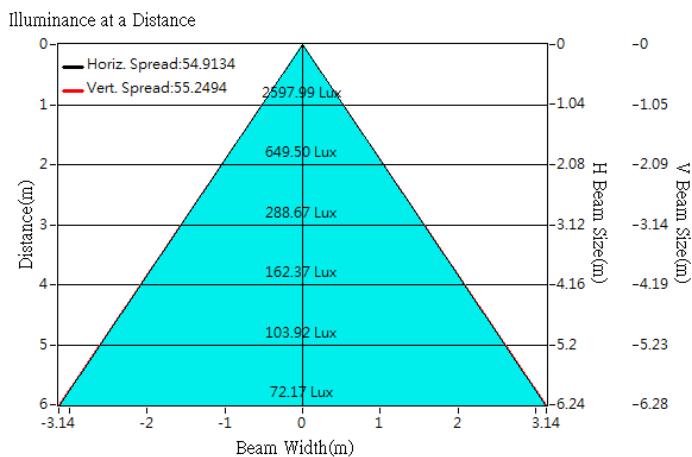
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	<b>CXB1520</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	55°		
Field Angle (D10)	84°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2288 lm	Measured @ 16.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

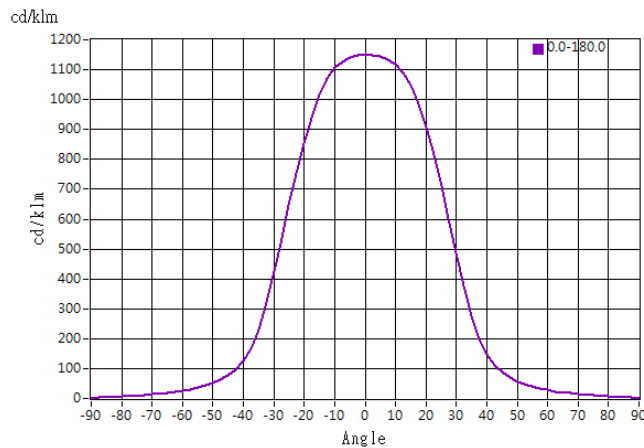




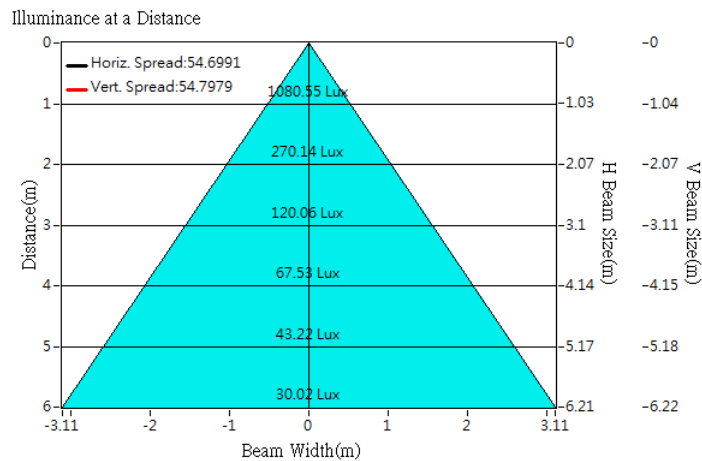
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMT1407</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	55°		
Field Angle (D10)	83°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	938 lm	Measured @ 7.0 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

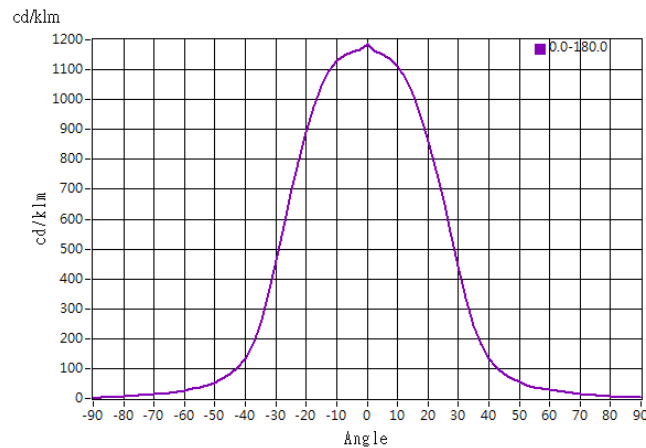




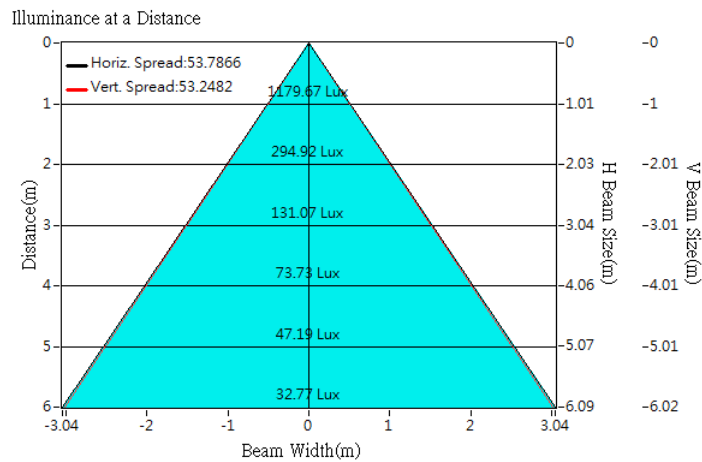
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	<b>CMT1412</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	53°		
Field Angle (D10)	82°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	997 lm	Measured @ 6.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

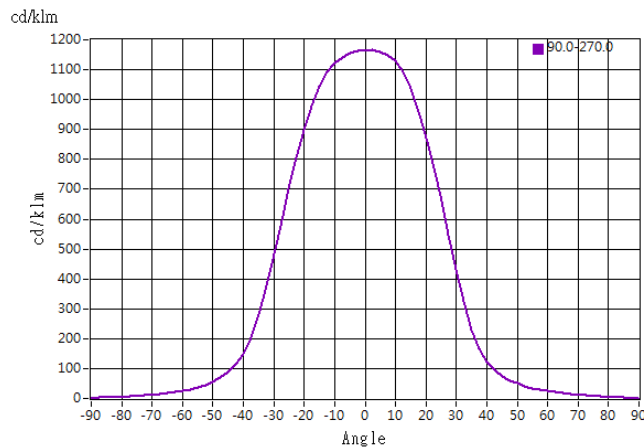




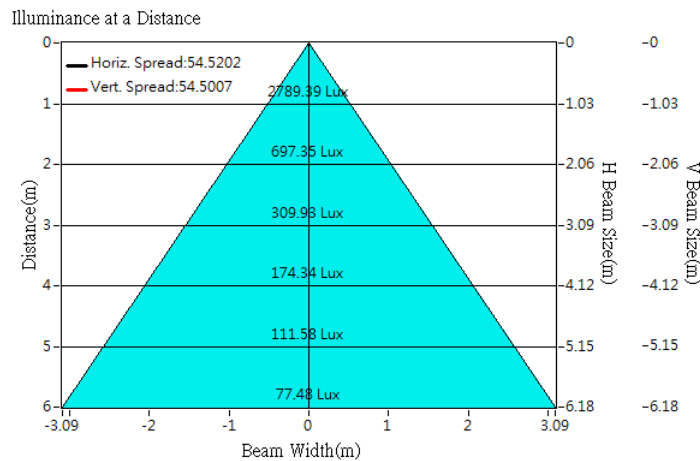
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	<b>CMT1420</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	55°		
Field Angle (D10)	83°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2400 lm	Measured @ 19 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

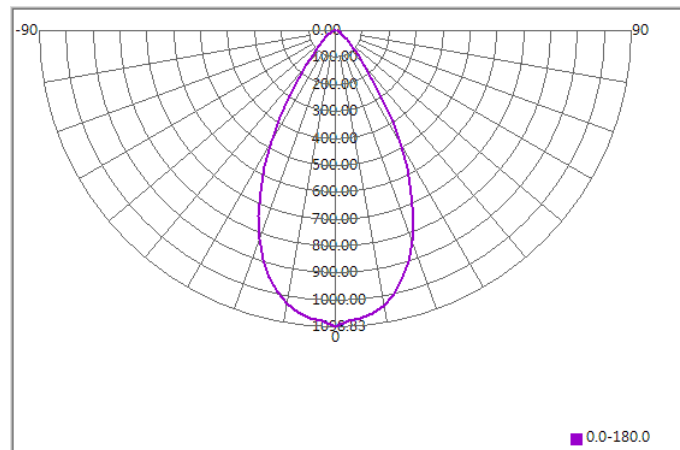




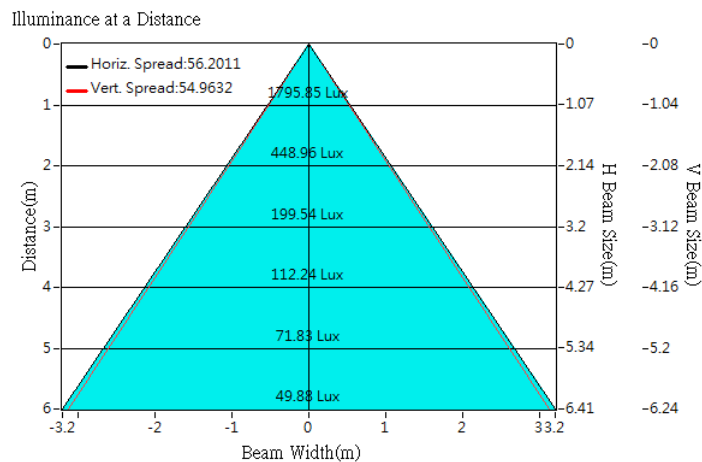
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	<b>CXA1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	55°		
Field Angle (D10)	86°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1634 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

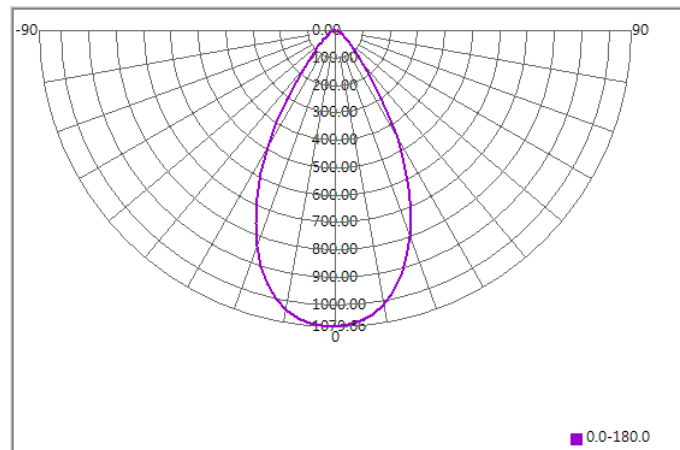




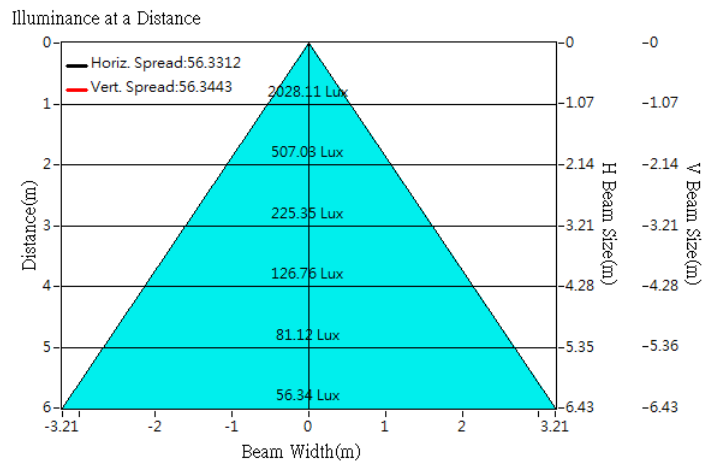
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p> <p>LES CoB</p>
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	56°		
Field Angle (D10)	88°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1878 lm	Measured @ 15.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

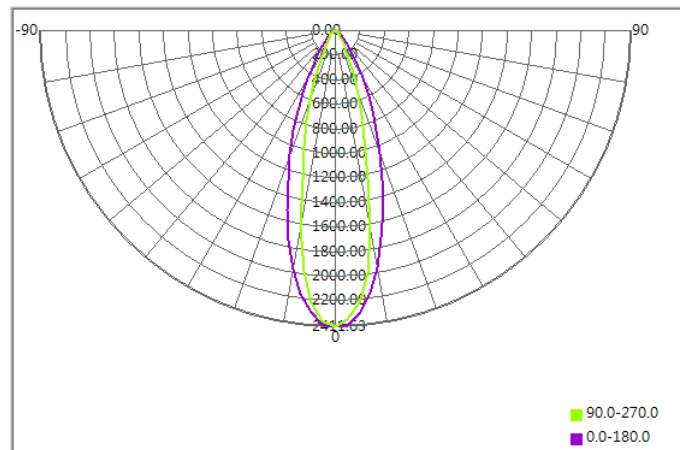




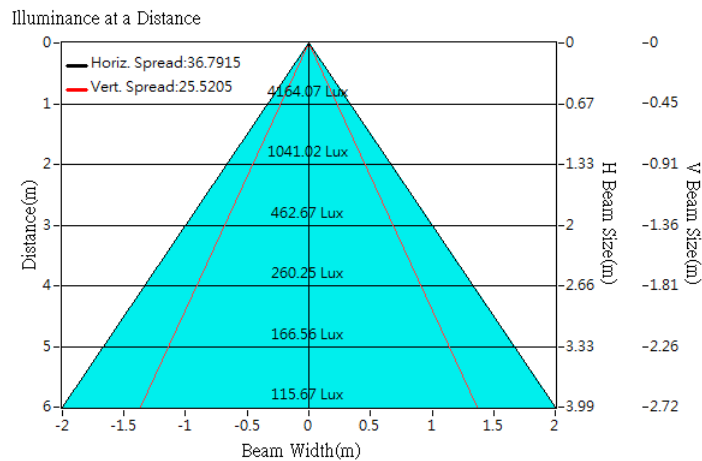
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CXA1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	57°		
Field Angle (D10)	89°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1726 lm	Measured @ 19.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

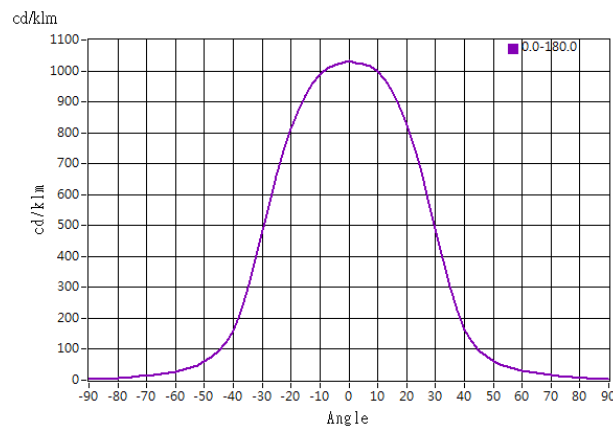




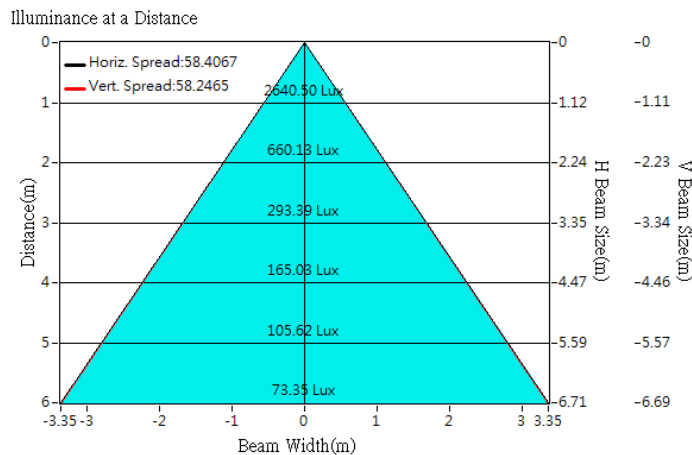
## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	<b>CXB1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	58°		
Field Angle (D10)	88°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2555 lm	Measured @ 19.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

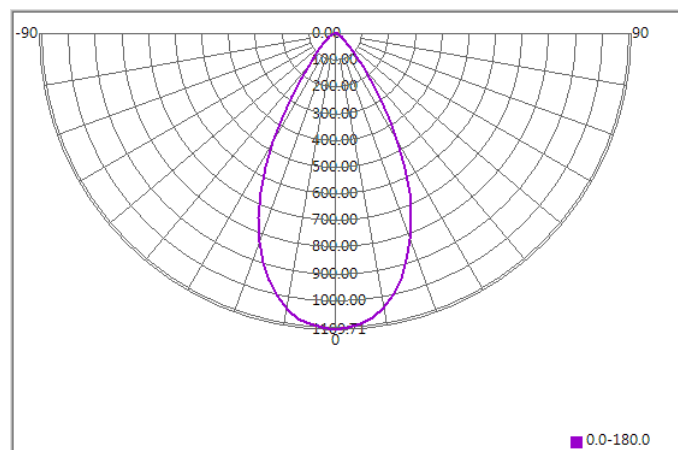




## Optical Characteristics

Model Number	CKO-CS17-045021-1360		<p>"H" definition</p>
LED	<b>CMA1825</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	56°		
Field Angle (D10)	87°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	3016 lm	Measured @ 24.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

