



## Product Model Number

**CKO-SA17-045021-1309**

### ✓ Model Number Definitions

**CKO-XXXX-XXXXXX-XXXX**

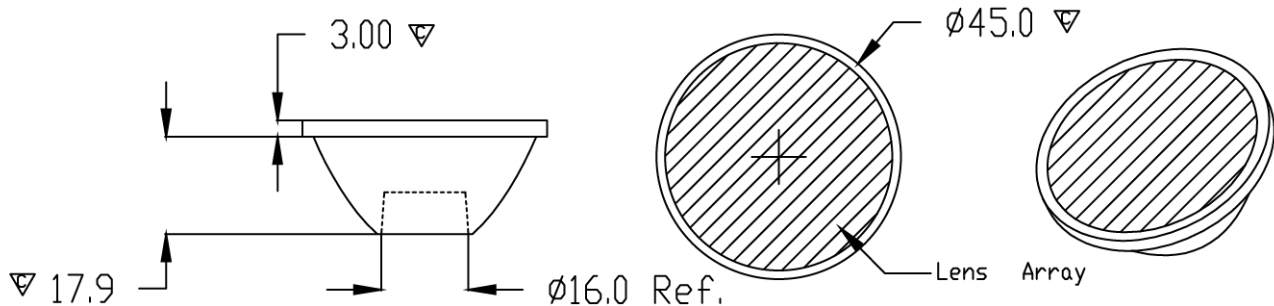


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation  
Ex:  
CH→CoB High Intensity  
CC→CoB Compact  
SA→Soft Shading for CoB LED - Asymmetry  
HC→Holder for CoB LED

- 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

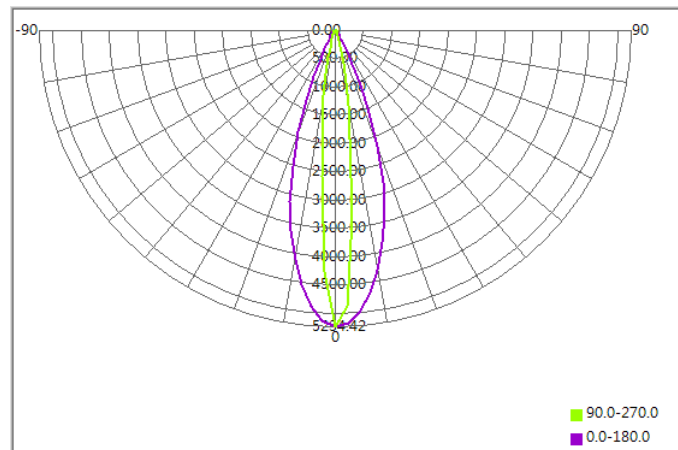
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)	"H"mm
CMA1303	Φ4.5	11°x35°	30°x57°	2.5
CXA1304	Φ6	13°x34°	34°x59°	2.5
CXB1304	Φ6	13°x34°	33°x59°	2.5
CMA1306	Φ6	14°x35°	33°x59°	2.5
CXB1310	Φ6	13°x34°	34°x58°	2.5
CXA1507	Φ9	19°x35°	41°x65°	2.5
CXB1507	Φ9	19°x35°	43°x66°	2.5
CXA1510	Φ9	18°x35°	41°x66°	2.5
CXA1512	Φ9	18°x35°	40°x64°	2.5
CXB1512	Φ9	19°x35°	41°x65°	2.5
CMA1516	Φ9	19°x35°	43°x66°	2.5
CXB1520	Φ9	20°x35°	43°x66°	2.5
CMT1407	Φ9.8	20°x35°	42°x66°	2.5
CMT1412	Φ9.8	21°x35°	46°x67°	2.5
CMT1420	Φ9.8	20°x35°	45°x67°	2.5
CXB1816	Φ12	25°x37°	52°x73°	2.5
CXA1820	Φ12	26°x37°	53°x73°	2.5
CXB1820	Φ12	25°x37°	53°x73°	2.5
CMA1825	Φ12	25°x37°	52°x73°	2.5



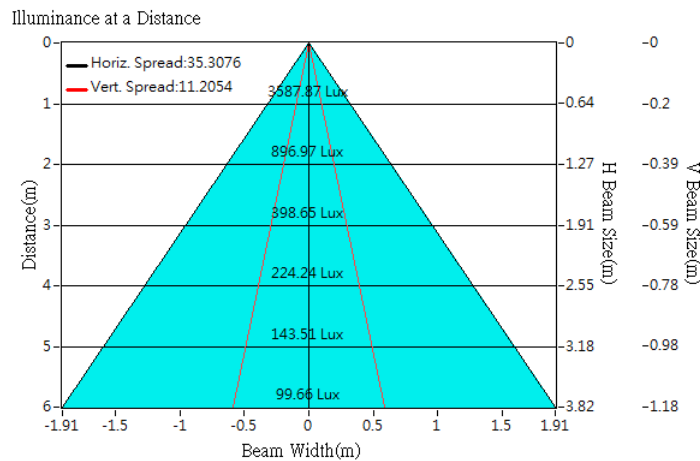
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CMA1303</b>		
LES / LED Size	Φ 4.5 mm		
FWHM (D50)	11°x35°		
Field Angle (D10)	30°x57°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	685 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

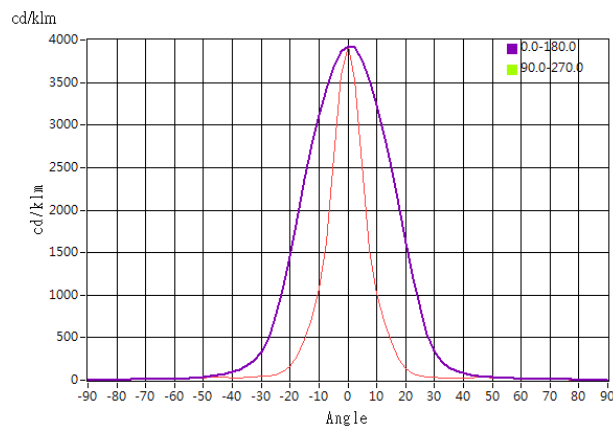




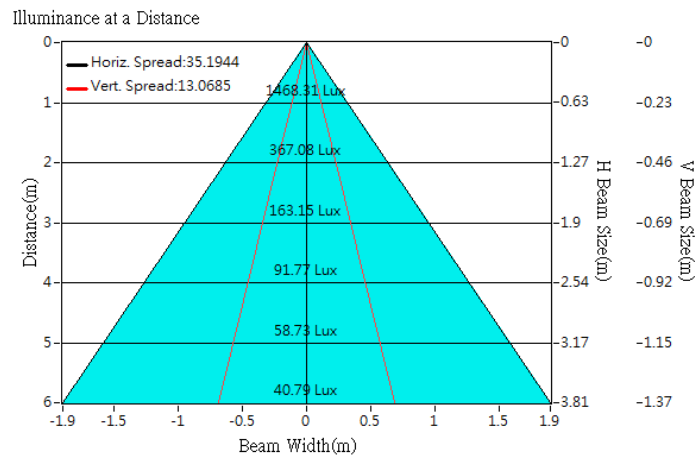
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CXA1304</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	13°x35°		
Field Angle (D10)	32°x58°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	374 lm	Measured @ 2.8 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

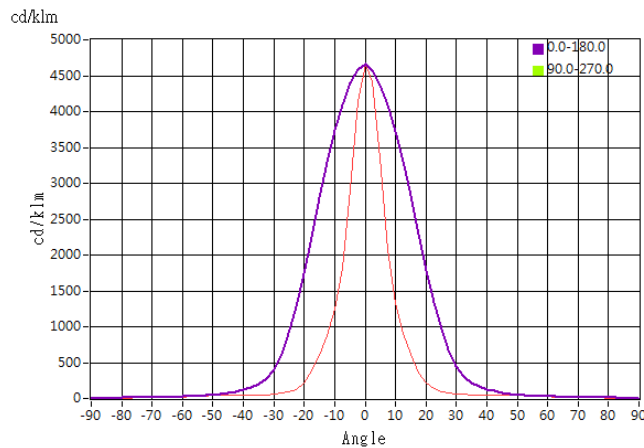




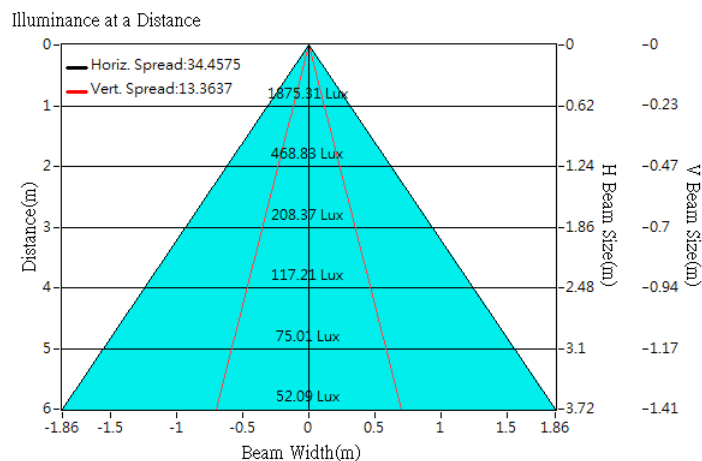
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	CXB1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	13°x35°		
Field Angle (D10)	33°x59°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	403 lm	Measured @ 3.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

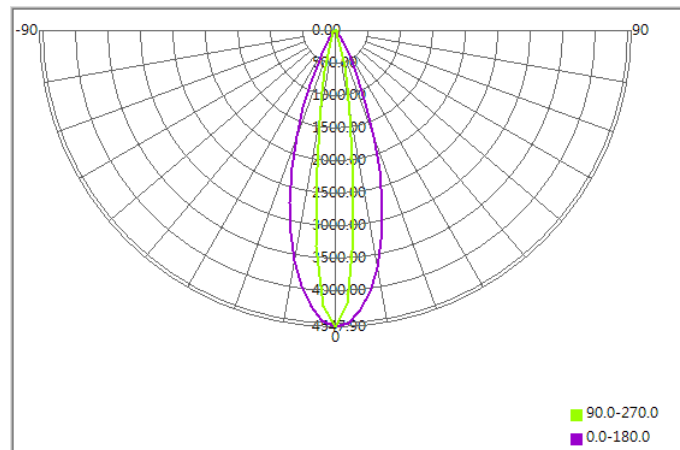




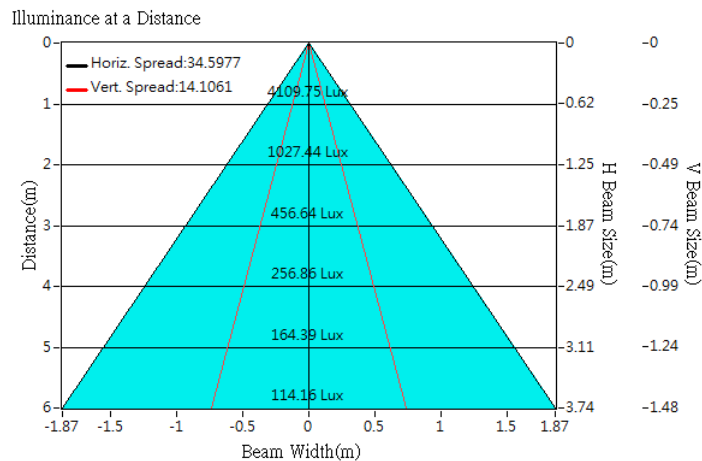
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMA1306</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	14°x35°		
Field Angle (D10)	33°x59°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	903 lm	Measured @ 7.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

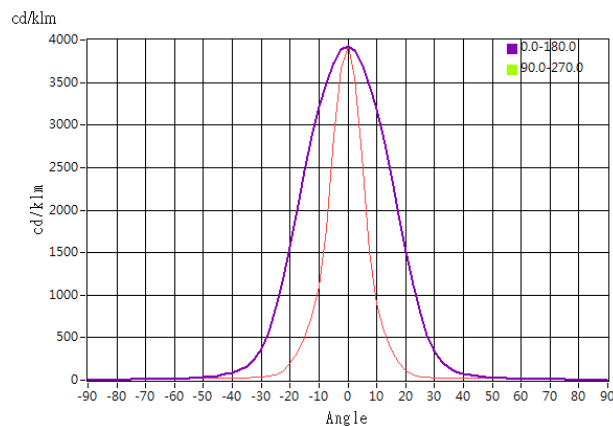




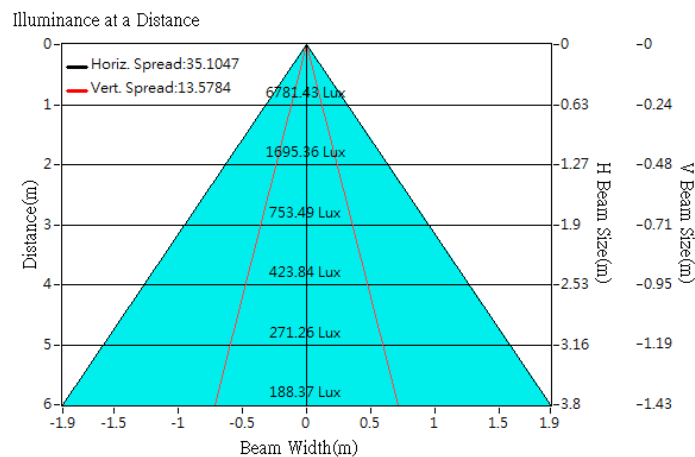
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CXB1310</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	13°x35°		
Field Angle (D10)	31°x59°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1727 lm	Measured @ 12.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

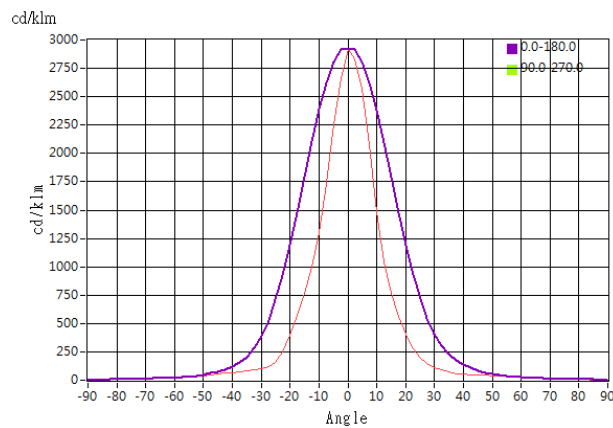




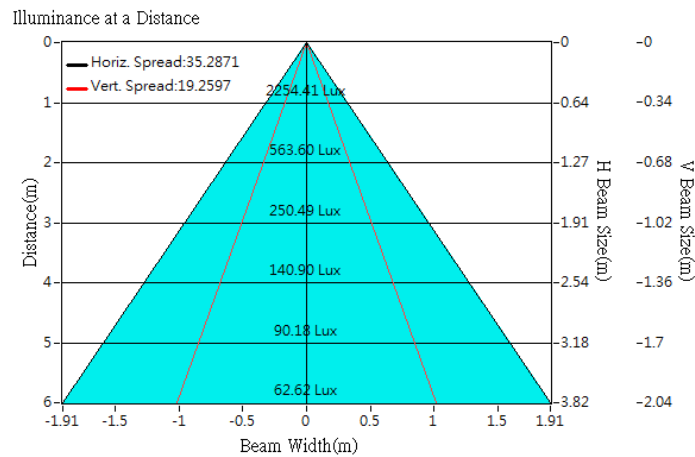
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CXA1507</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°x35°		
Field Angle (D10)	44°x65°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	774 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

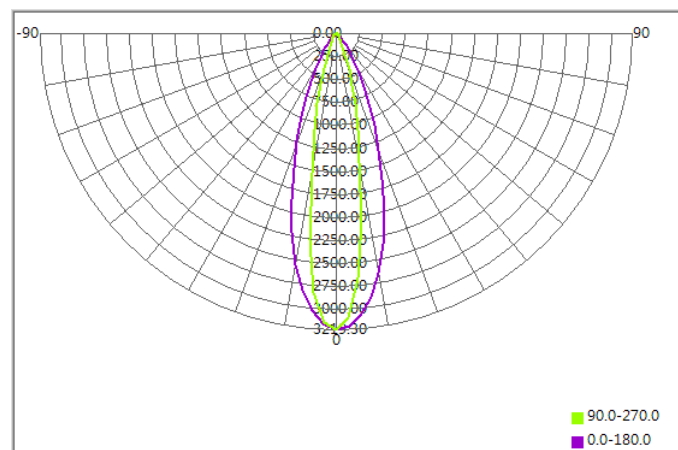




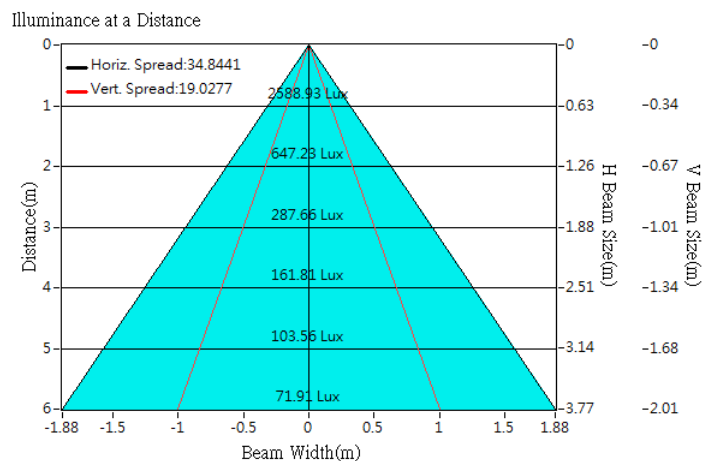
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CXB1507</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°x35°		
Field Angle (D10)	43°x66°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	804 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

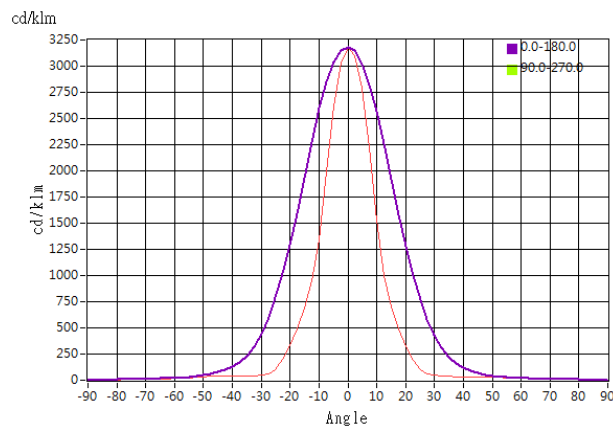




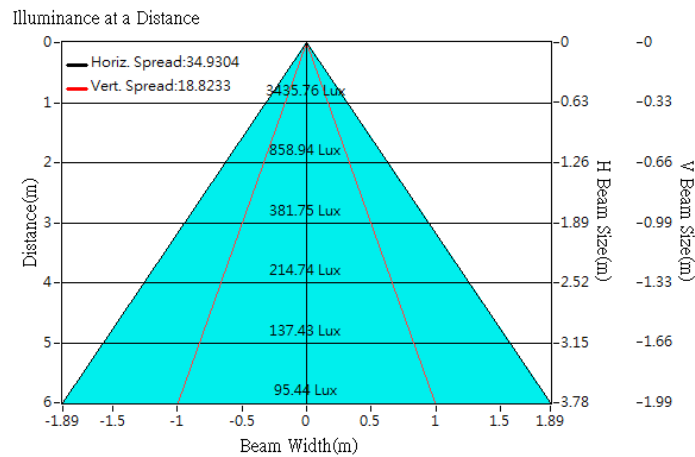
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CXA1510</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	18°x35°		
Field Angle (D10)	40°x65°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1080 lm	Measured @ 9.0 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

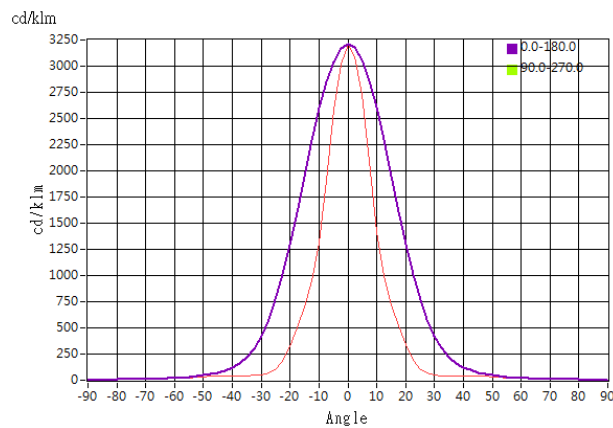




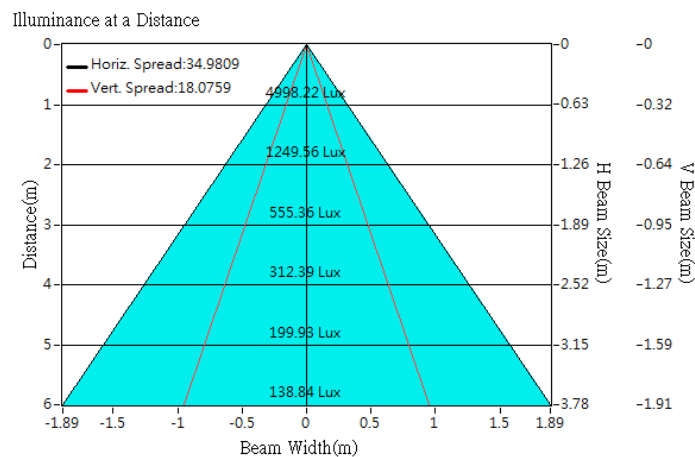
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CXA1512</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	18°x35°		
Field Angle (D10)	40°x64°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1557 lm	Measured @ 13.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

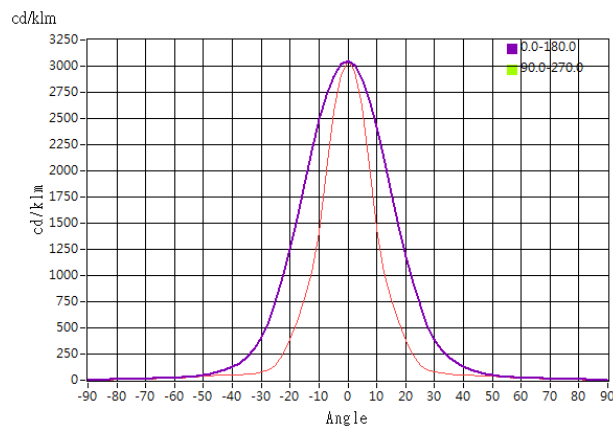




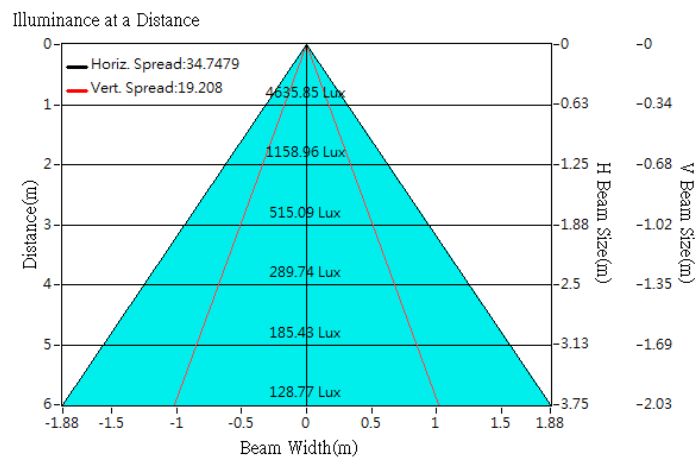
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CXB1512</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°x35°		
Field Angle (D10)	43°x64°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1521 lm	Measured @ 12 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

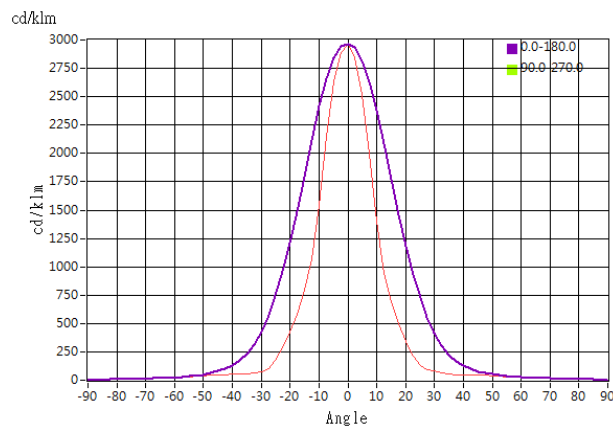




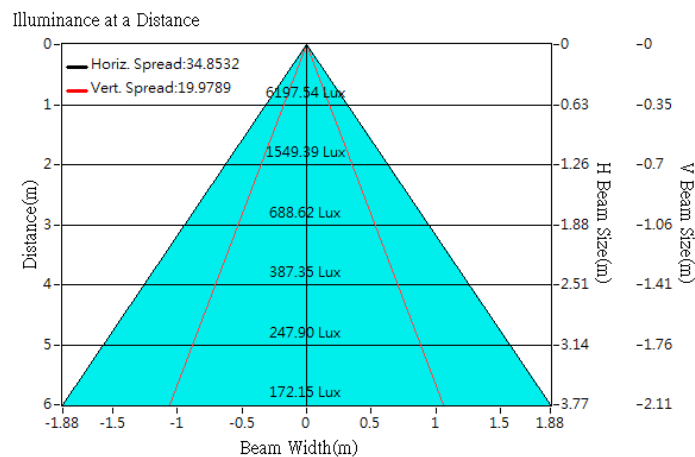
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CMA1516</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°x35°		
Field Angle (D10)	43°x66°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2090 lm	Measured @ 15.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

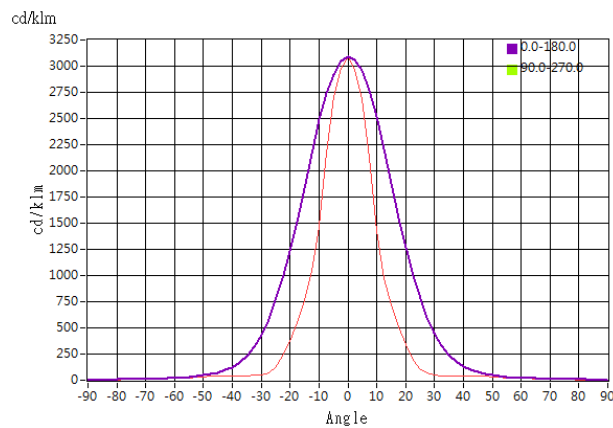




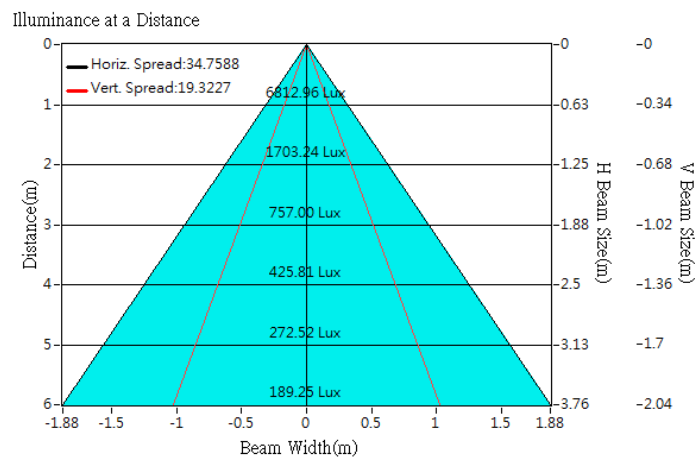
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CXB1520</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°x35°		
Field Angle (D10)	42°x66°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2206 lm	Measured @ 16.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

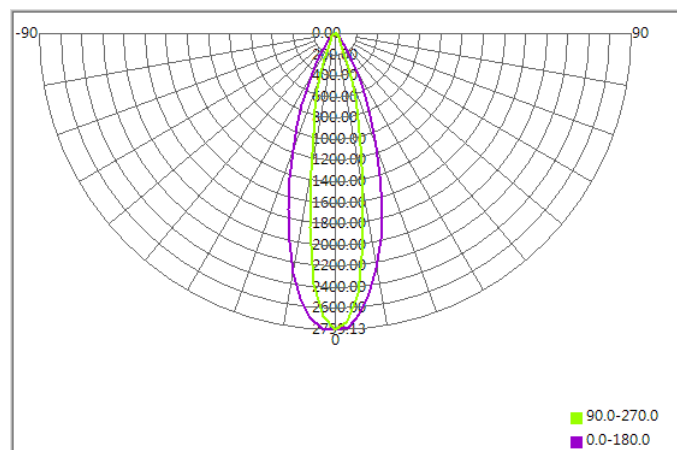




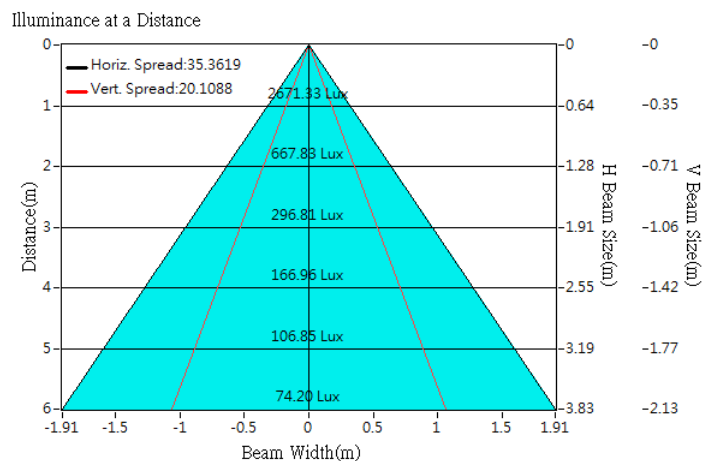
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p> <p>LES CoB "H" mm (distance)</p>
LED	<b>CMT1407</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	20°x35°		
Field Angle (D10)	45°x67°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	954 lm	Measured @ 6.9 W	
Material	PC / UL94V2		

## cd/klm

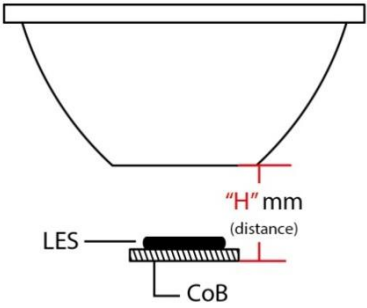


## Illuminance At Distances

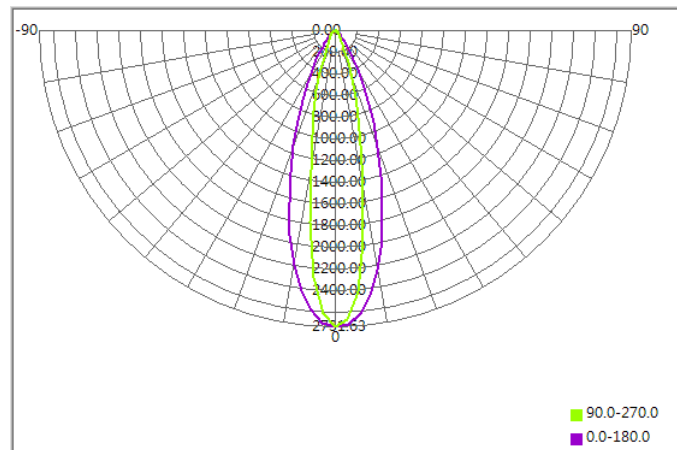




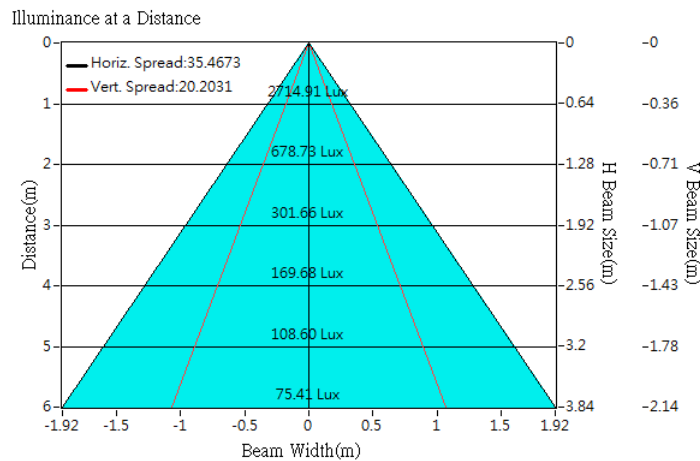
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p> 
LED	<b>CMT1412</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	20°x35°		
Field Angle (D10)	46°x68°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	993 lm	Measured @ 6.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

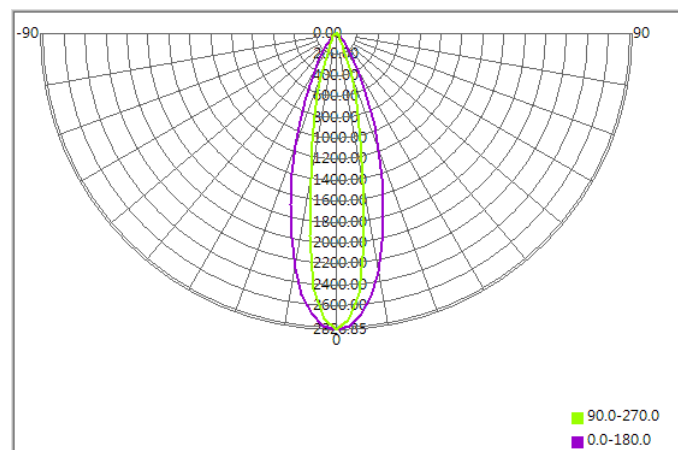




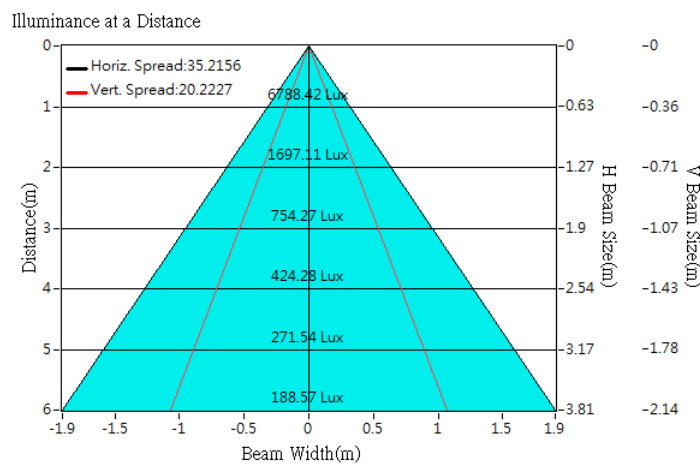
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CMT1420</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	20°x35°		
Field Angle (D10)	45°x67°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2401 lm	Measured @ 19 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

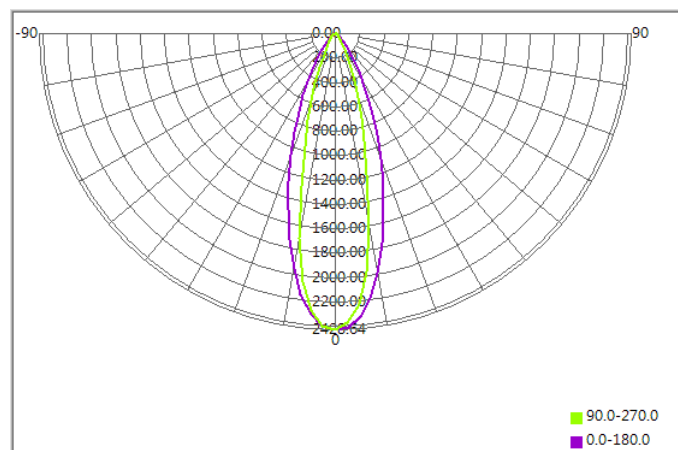




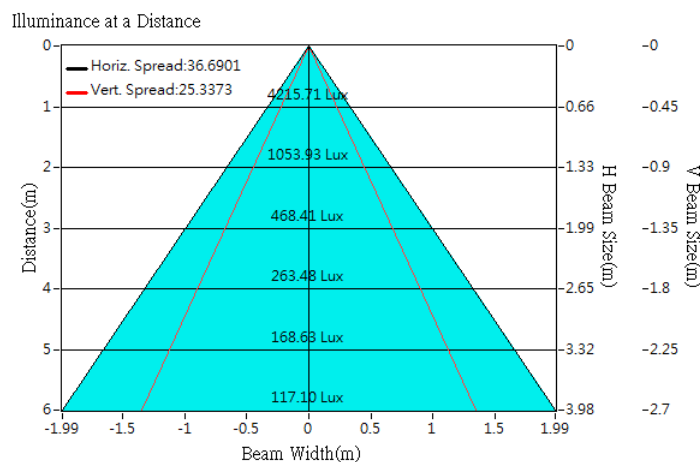
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	25°x37°		
Field Angle (D10)	52°x73°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1735 lm	Measured @ 16.0 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

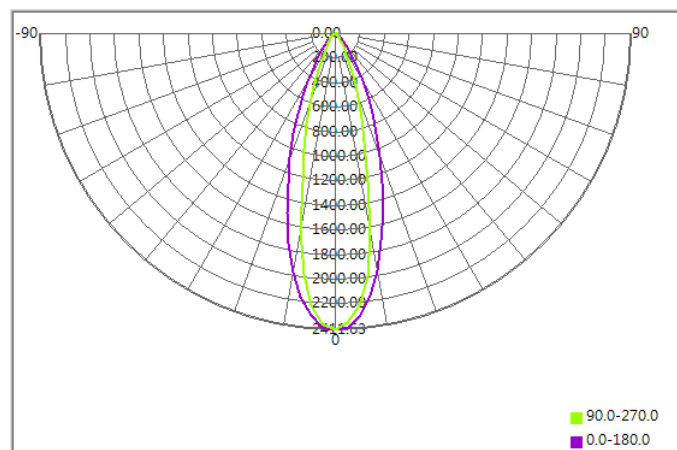




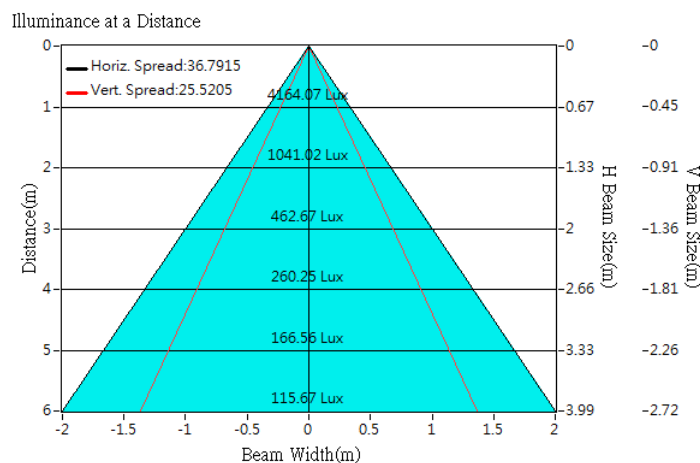
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CXA1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	26°x37°		
Field Angle (D10)	53°x73°		
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

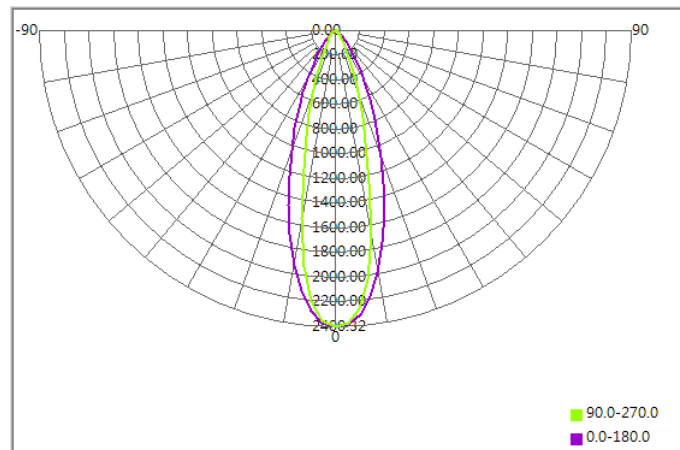




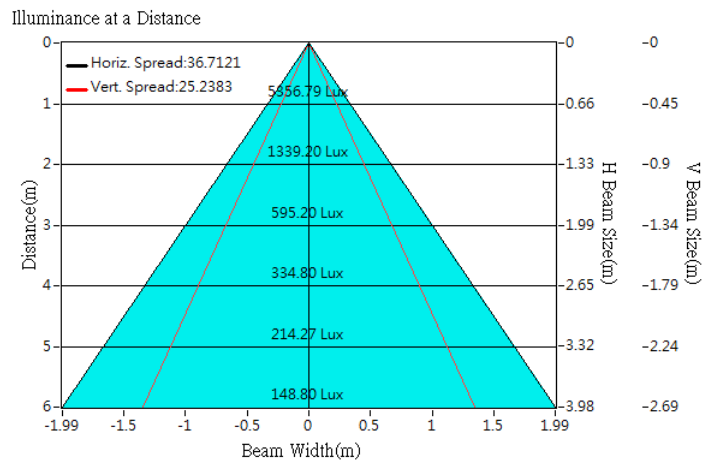
## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CXB1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	25°x37°		
Field Angle (D10)	53°x73°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2231 lm	Measured @ 19.8 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

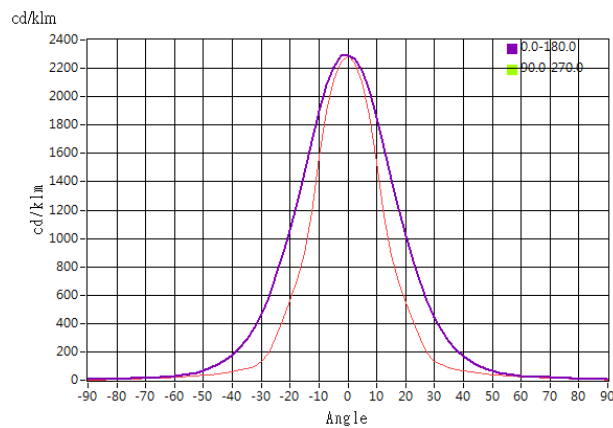




## Optical Characteristics

Model Number	CKO-SA17-045021-1309		<p>"H" definition</p>
LED	<b>CMA1825</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	25°x37°		
Field Angle (D10)	53°x74°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	3091 lm	Measured @ 25.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

