



## Product Model Number

CKO-CH15-045021-1650

### ✓ Model Number Definitions

**CKO-XXXX-XXXXXX-XXXX**

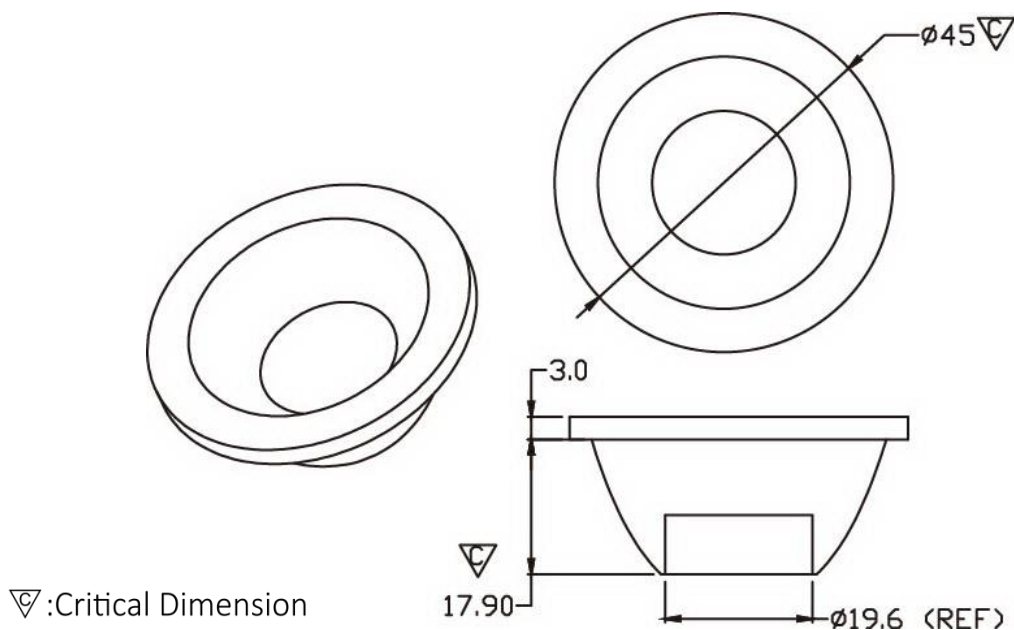


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation  
Ex:  
CH→CoB High Intensity  
CC→CoB Compact  
CS→Soft Shading for CoB LED  
HC→Holder for CoB LED

- 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



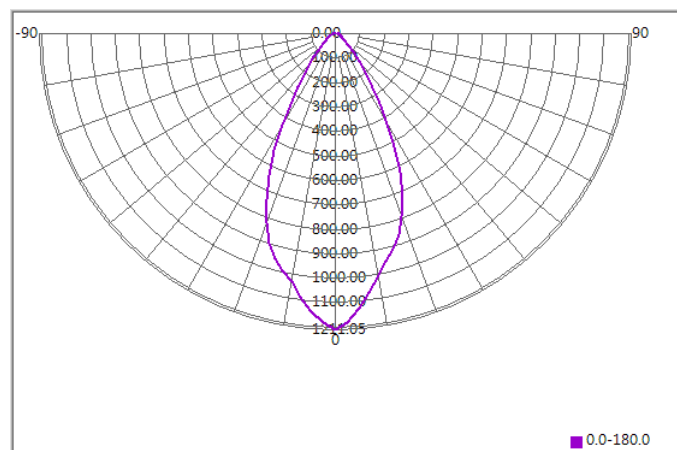




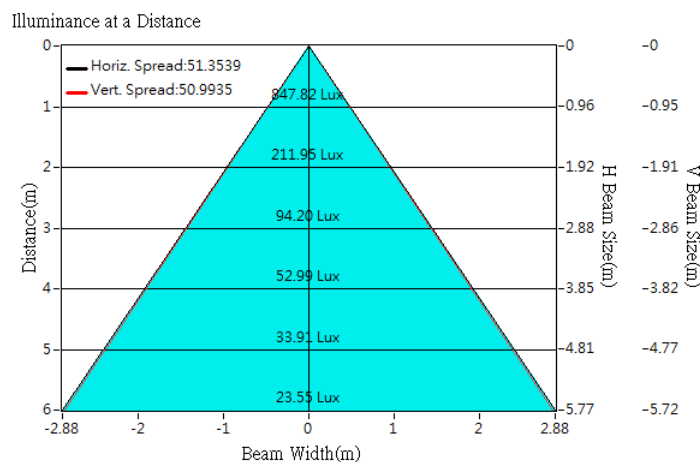
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMA1303</b>		
LES / LED Size	Φ 4.5 mm		
FWHM (D50)	51°		
Field Angle (D10)	87°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	700 lm	Measured @ 6.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

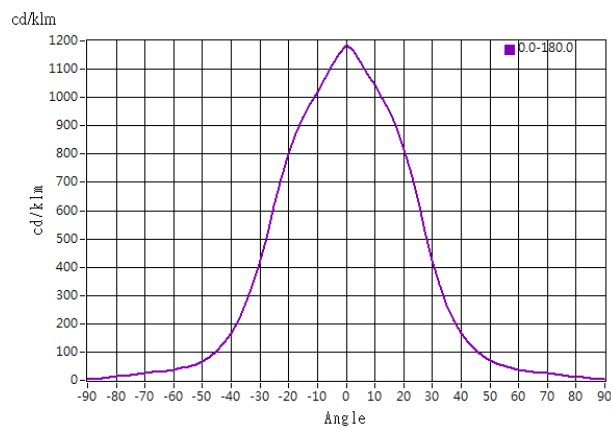




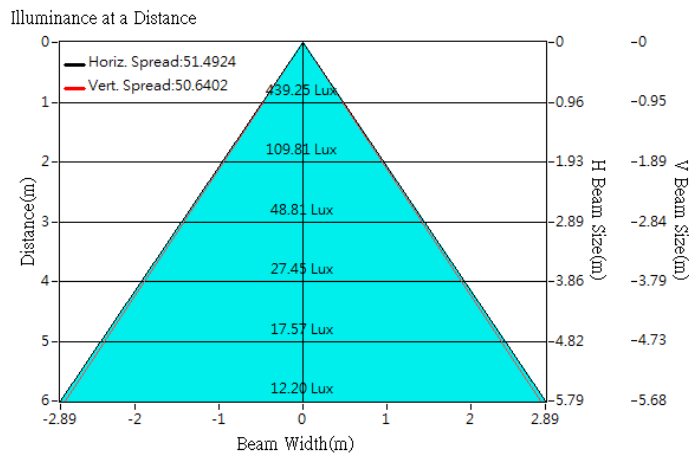
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p>
LED	<b>CREE CXA1304</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	51°		
Field Angle (D10)	88°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	371 lm	Measured @3.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

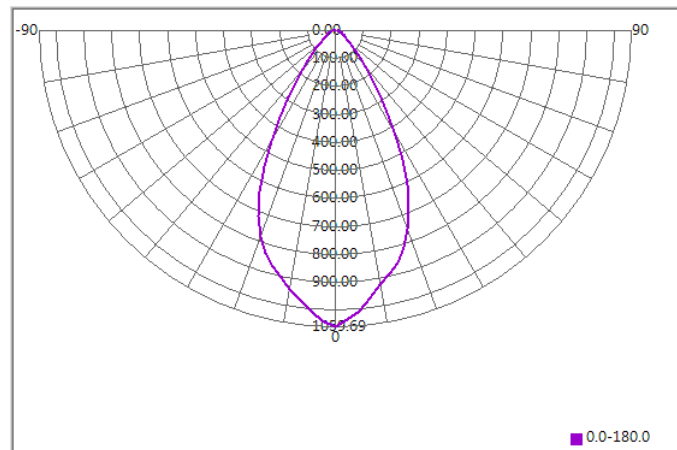




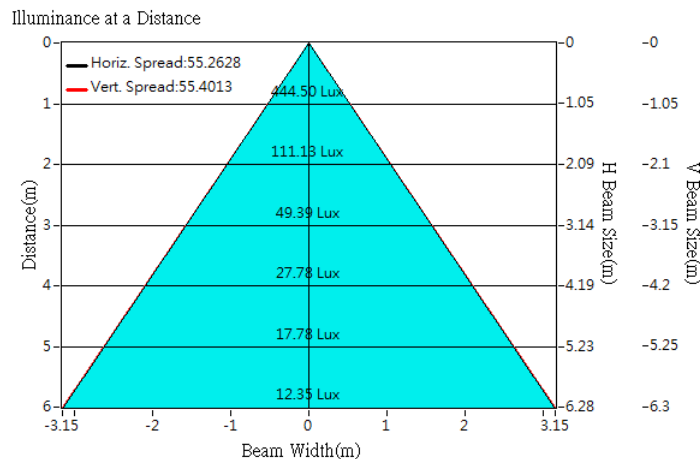
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p>
LED	CXB1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	55°		
Field Angle (D10)	91°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	419 lm	Measured @ 3.4 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

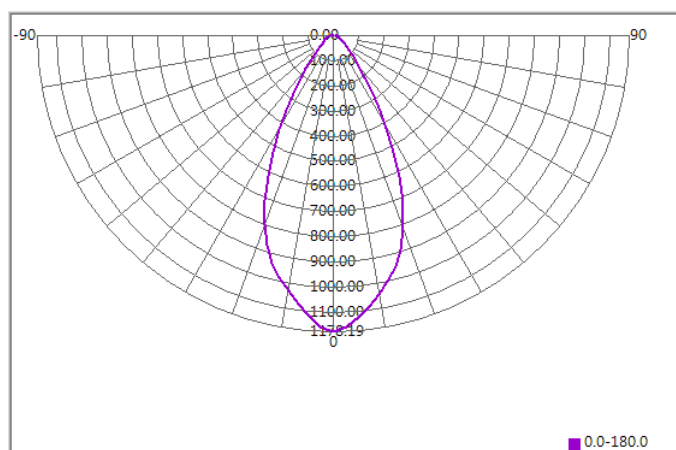




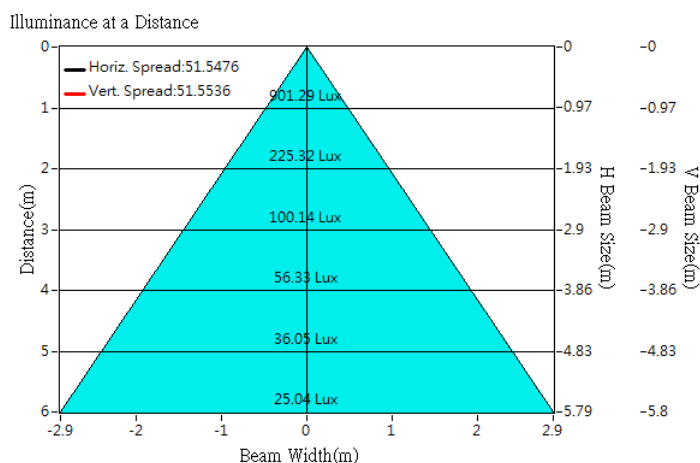
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p>
LED	<b>CMA1306</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	52°		
Field Angle (D10)	88°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	764 lm	Measured @ 6.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

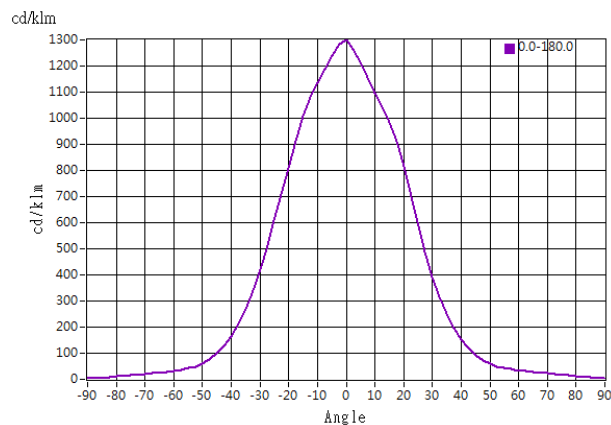




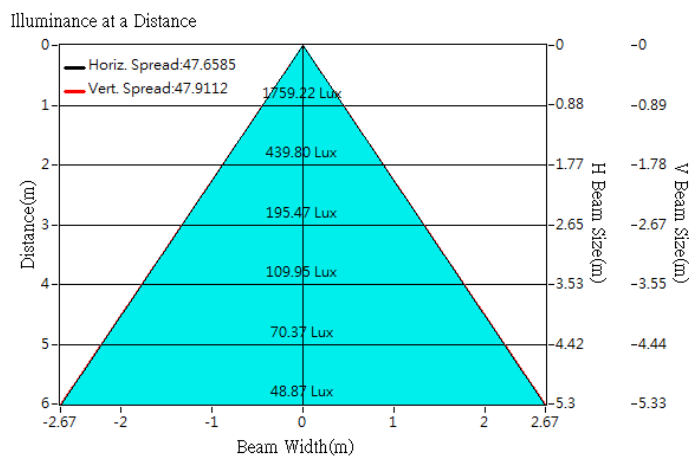
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p>
LED	<b>CREE CXB1310</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	48°		
Field Angle (D10)	84°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1355 lm	Measured @ 12.2 W	
Material	PC / UL94V2		

## cd/klm

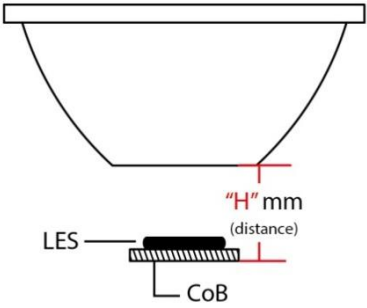


## Illuminance At Distances

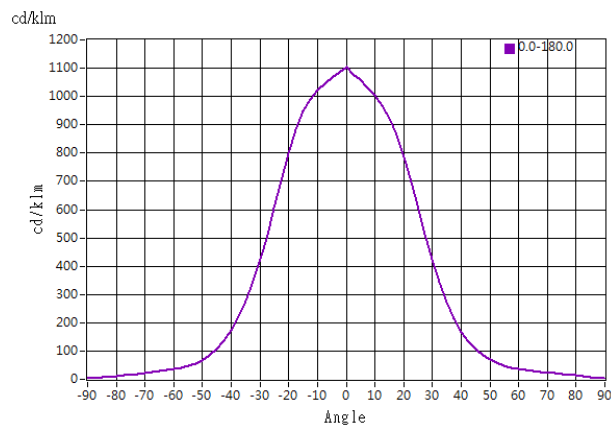




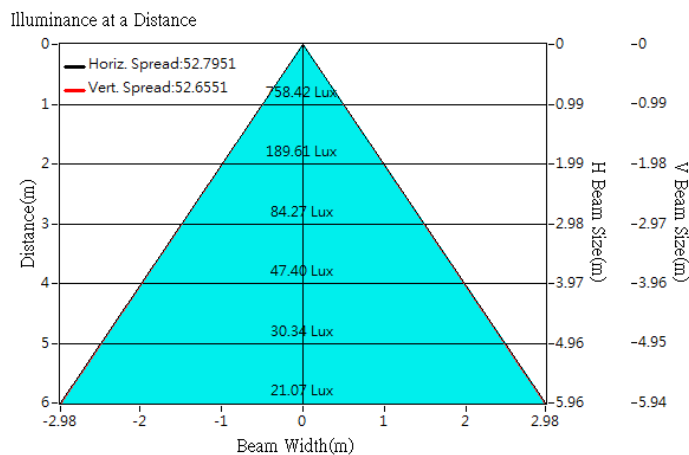
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p> 
LED	<b>CREE CXA1507</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	53°		
Field Angle (D10)	90°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	687 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

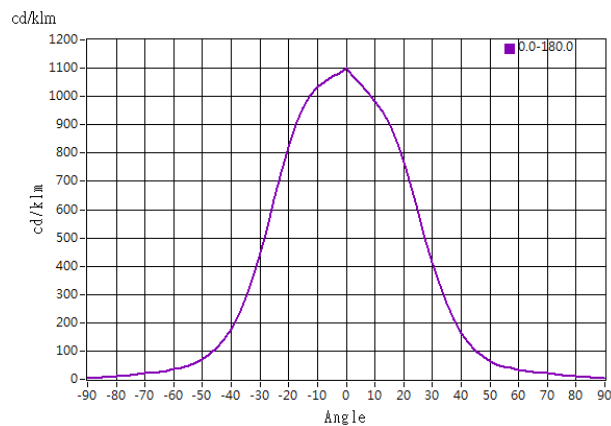




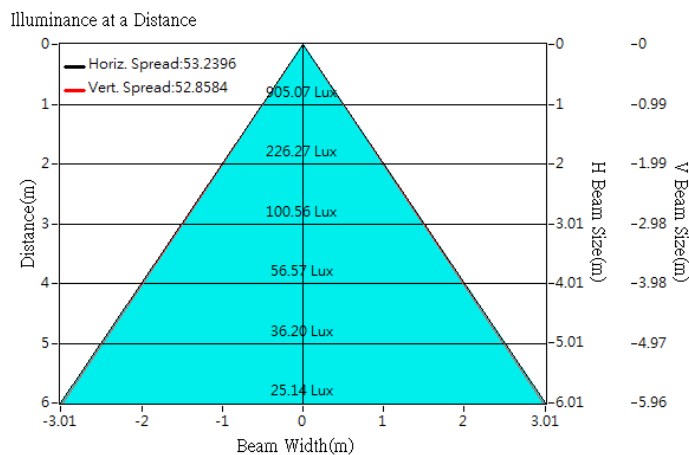
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CREE CXB1507</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	53°		
Field Angle (D10)	90°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	821 lm	Measured @7.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

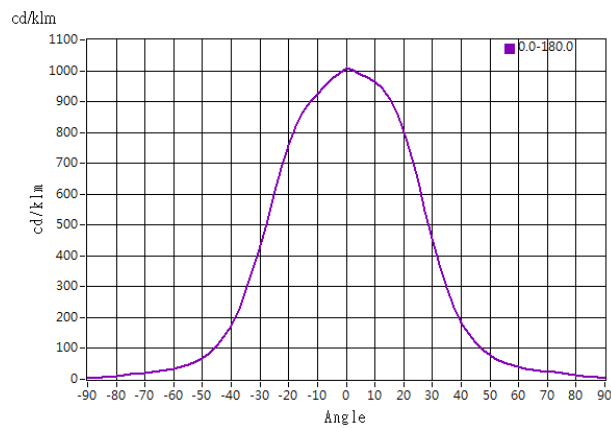




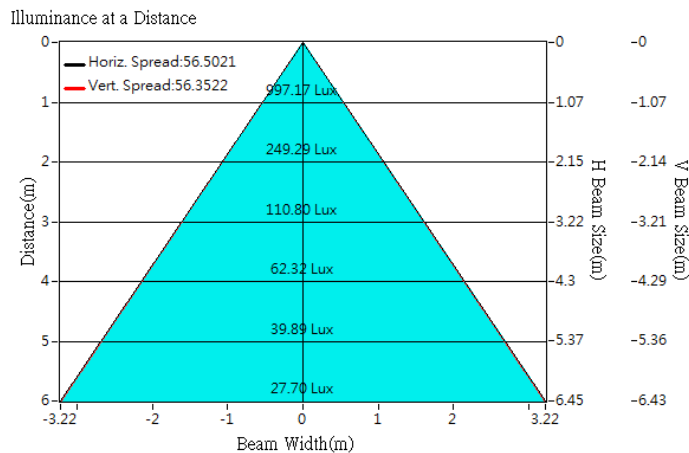
## Optical Characteristics

Model Number	CKO-CH15-045021-1650	<p>"H" definition</p>
LED	<b>CREE CXA1510</b>	
LES / LED Size	Φ 9 mm	
FWHM (D50)	57°	
Field Angle (D10)	93°	
H (distance)	2.5mm	
Dimension	Φ =45 mm, Thickness=20.9 mm	
Luminous Flux	989 lm	
Material	PC / UL94V2	

## cd/klm

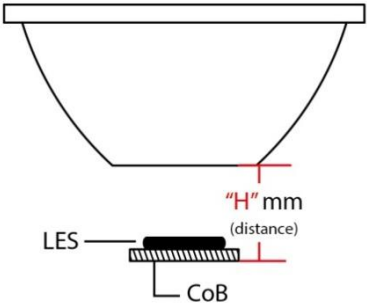


## Illuminance At Distances

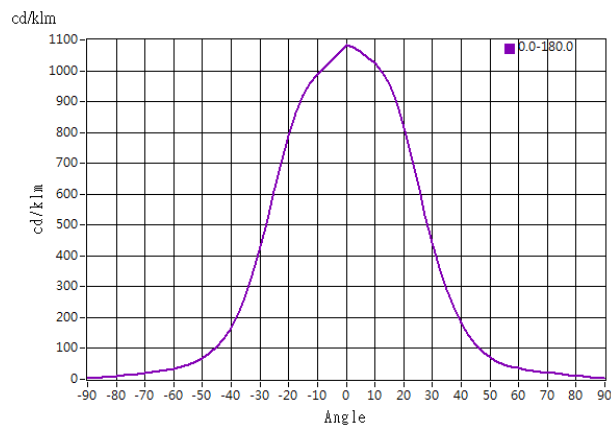




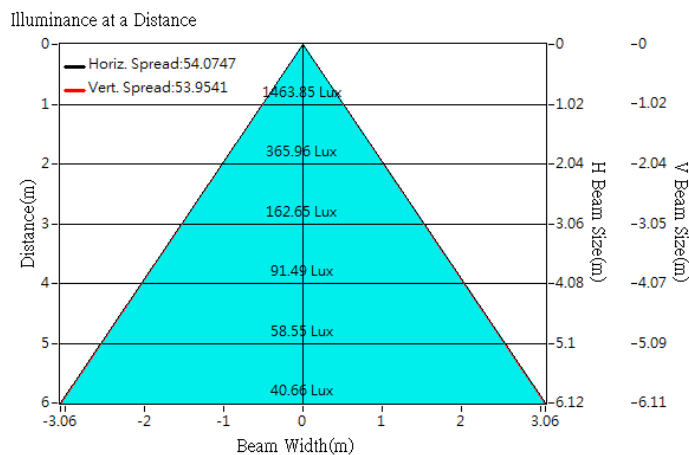
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p> 
LED	<b>CREE CXB1512</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	54°		
Field Angle (D10)	90°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1352 lm	Measured @ 12.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

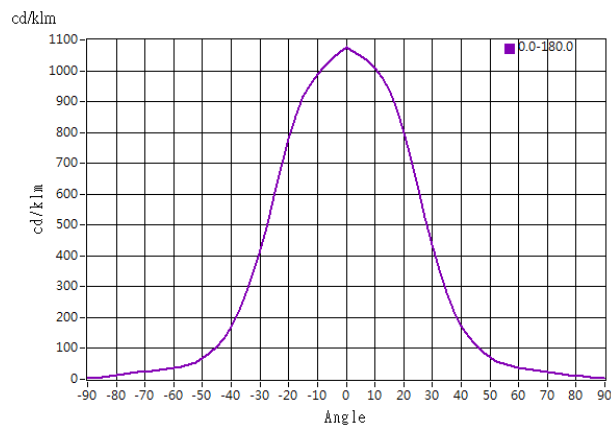




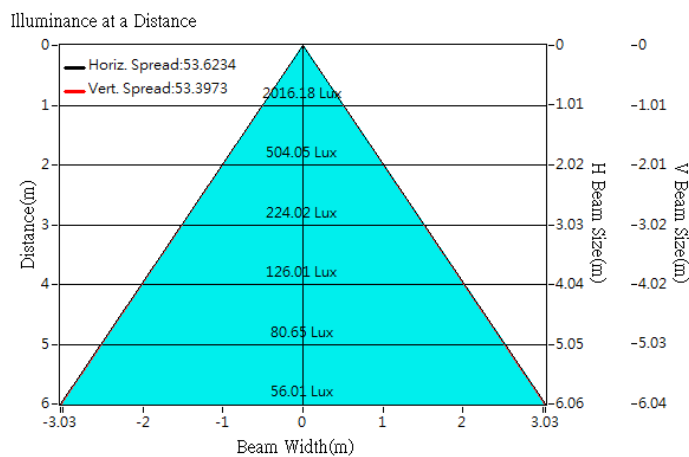
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p>
LED	<b>CREE CMA 1516</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	53°		
Field Angle (D10)	90°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1871 lm	Measured @ 15.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

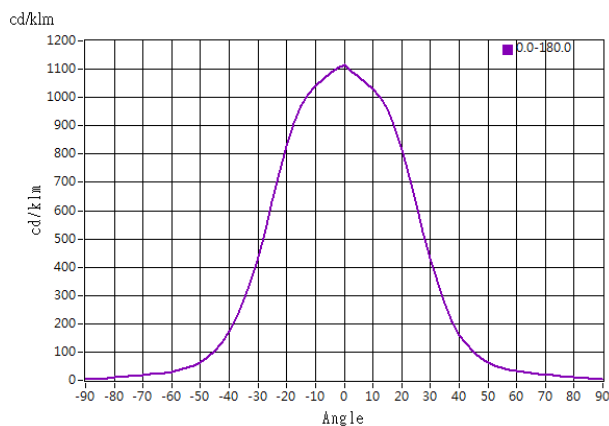




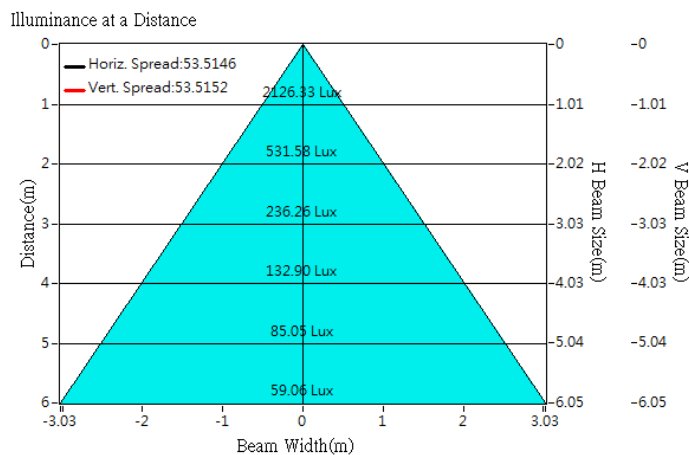
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p>
LED	<b>CREE CXB1520</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	54°		
Field Angle (D10)	88°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1909 lm	Measured @ 16.5 W	
Material	PC / UL94V2		

## cd/klm

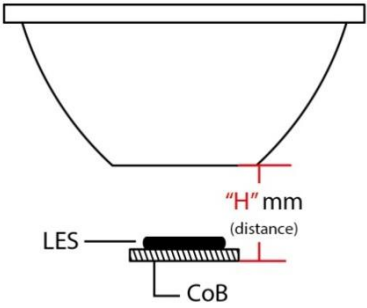


## Illuminance At Distances

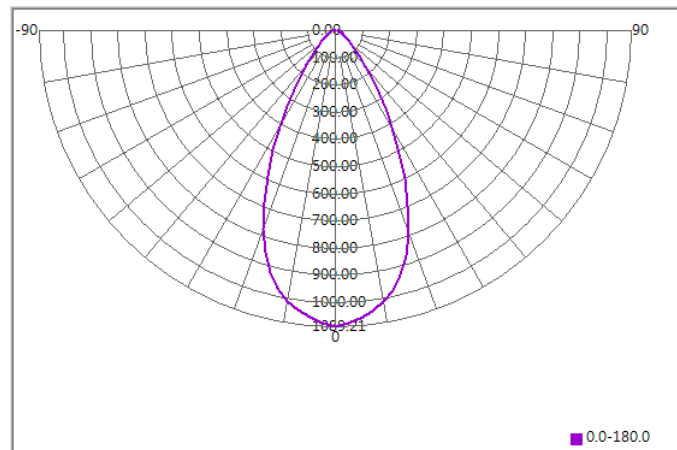




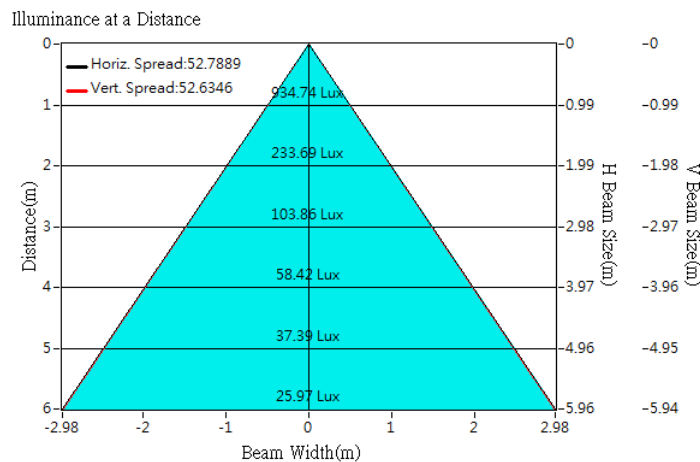
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p> 
LED	<b>CMT1407</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	53°		
Field Angle (D10)	90°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	858 lm	Measured @ 7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

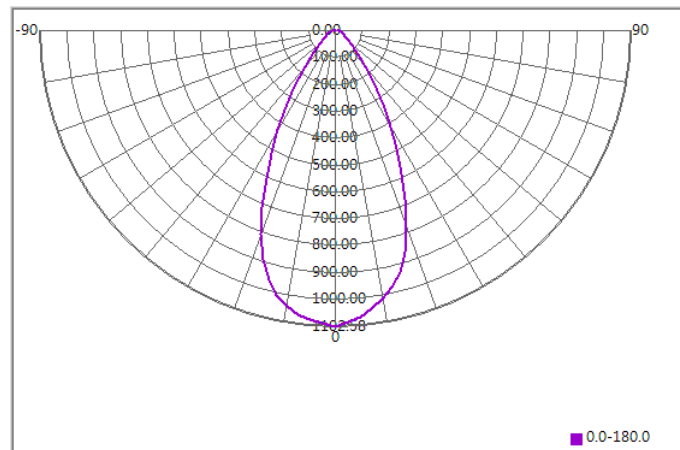




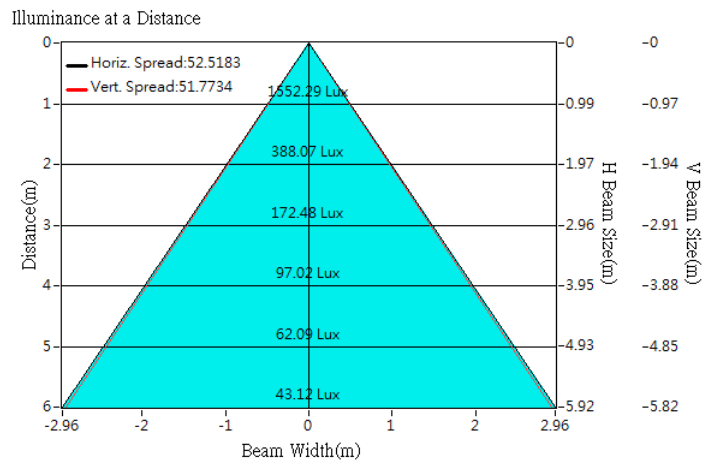
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMT1412</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	52°		
Field Angle (D10)	89°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1407 lm	Measured @ 12.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

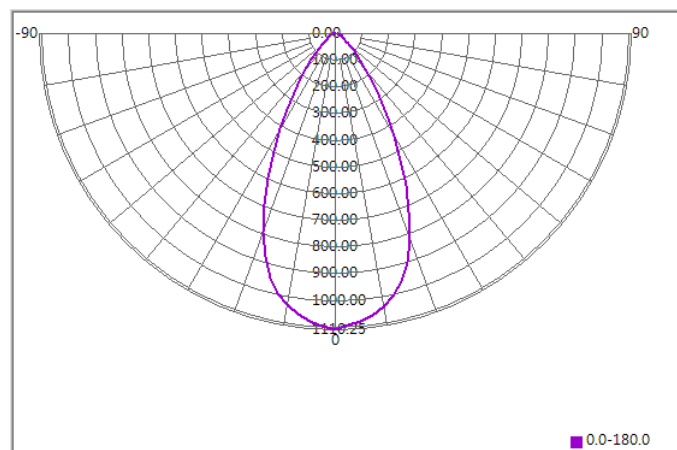




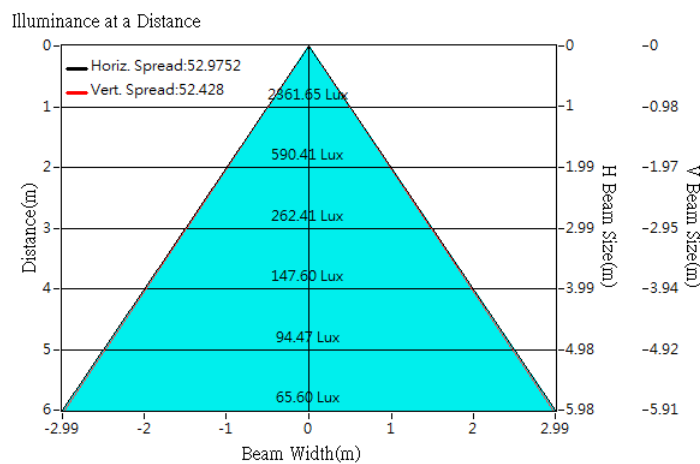
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMT1420</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	52°		
Field Angle (D10)	89°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2127 lm	Measured @ 18.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

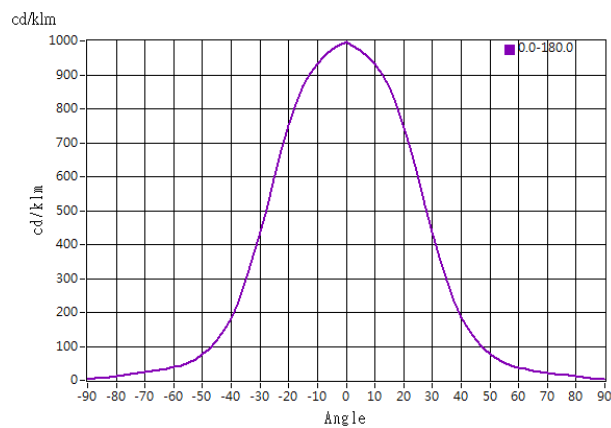




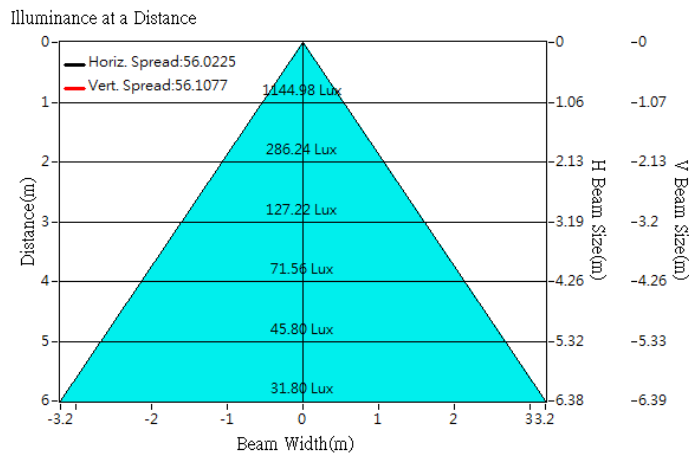
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p>
LED	<b>CREE CXA1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	56°		
Field Angle (D10)	95°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1147 lm	Measured @ 10.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

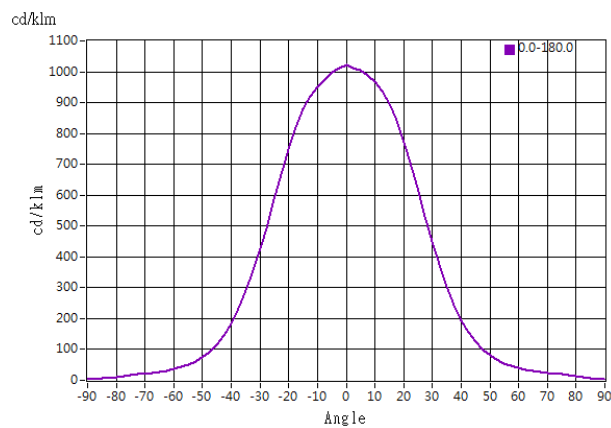




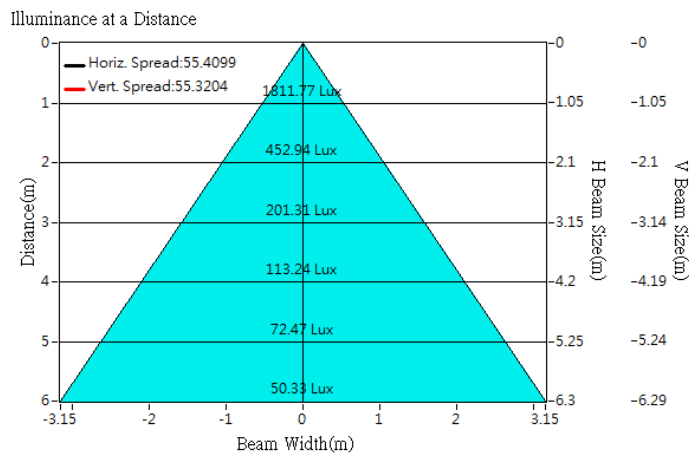
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p>
LED	<b>CREE CXB1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	55°		
Field Angle (D10)	93°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1773 lm	Measured @ 15.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

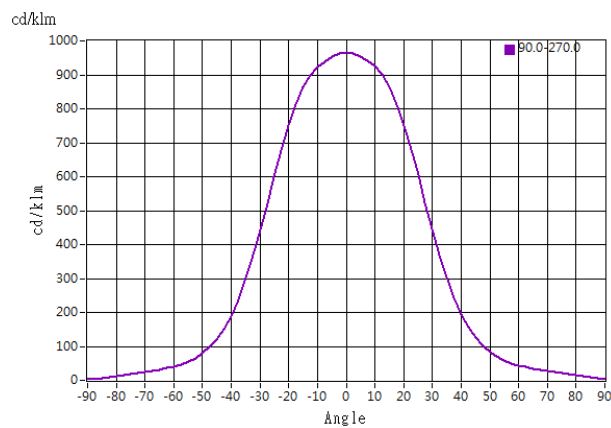




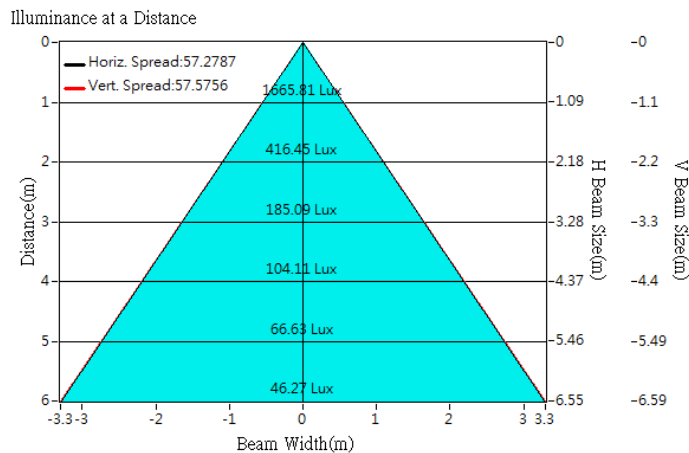
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p>
LED	<b>CREE CXA1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	58°		
Field Angle (D10)	96°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1731 lm	Measured @ 19.5 W	
Material	PC / UL94V2		

## cd/klm

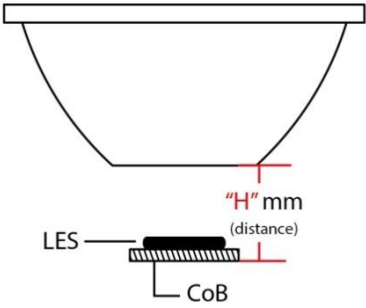


## Illuminance At Distances

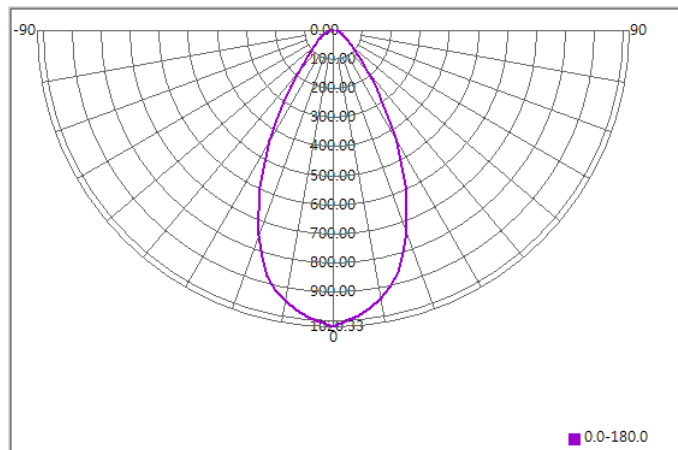




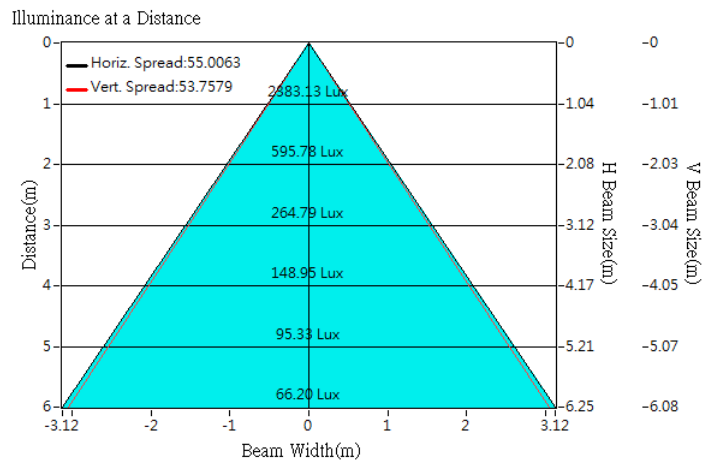
## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p> 
LED	CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	54°		
Field Angle (D10)	93°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2335 lm	Measured @ 19.4 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

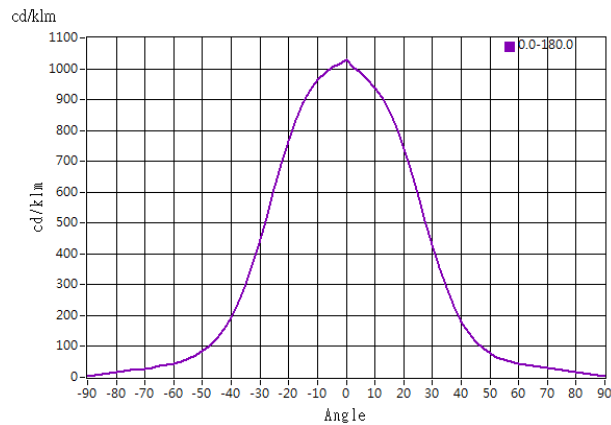




## Optical Characteristics

Model Number	CKO-CH15-045021-1650		<p>"H" definition</p>
LED	<b>CREE CMA1825</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	54°		
Field Angle (D10)	92°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2848 lm	Measured @ 25.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

