



## Product Model Number

CKO-CH15-045021-1605

### ✓ Model Number Definitions

**CKO-XXXX-XXXXXX-XXXX**

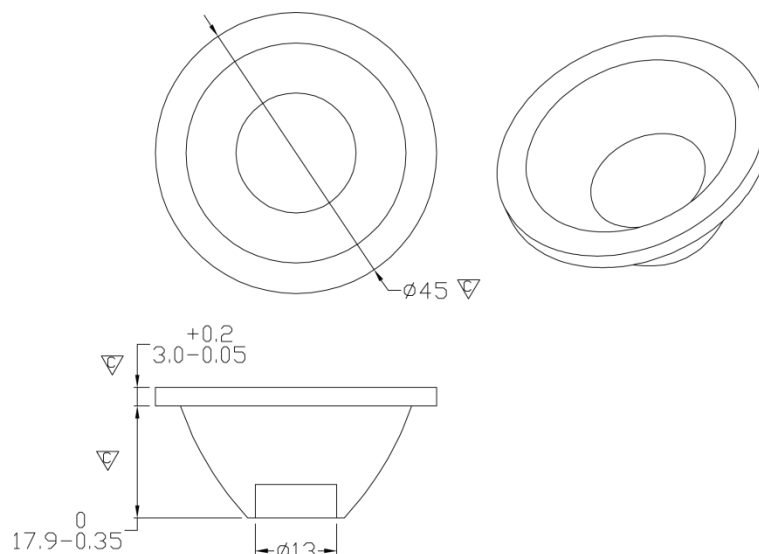


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation  
Ex:  
CH→CoB High Intensity  
CC→CoB Compact  
CS→Soft Shading for CoB LED  
HC→Holder for CoB LED

- 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

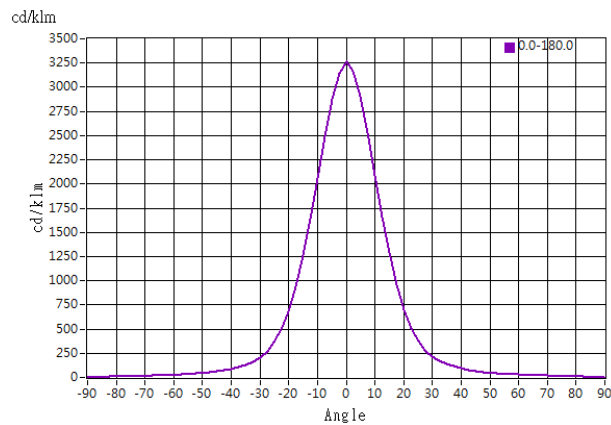




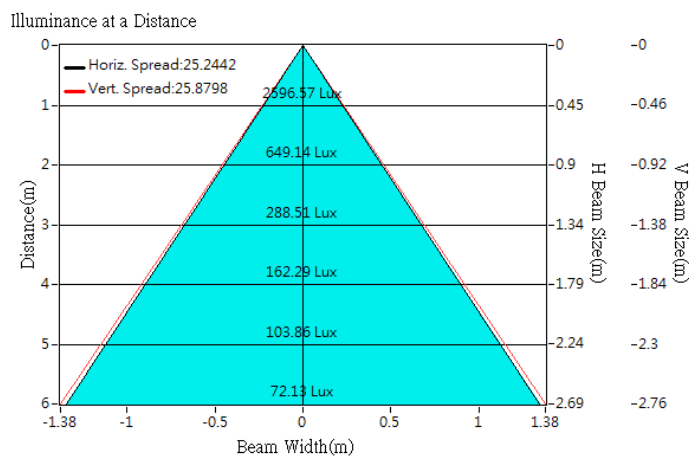
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		
LED	<b>XHP 50</b>		
LES / LED Size	5.0 x 5.0		
FWHM (D50)	25°		
Field Angle (D10)	52°		
H (distance)	2.5 mm		
MCPCB Height	1.1 mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	796 lm	Measured @ 8.4 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

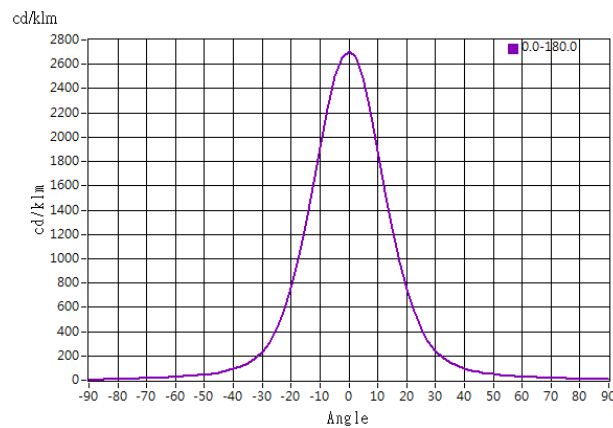




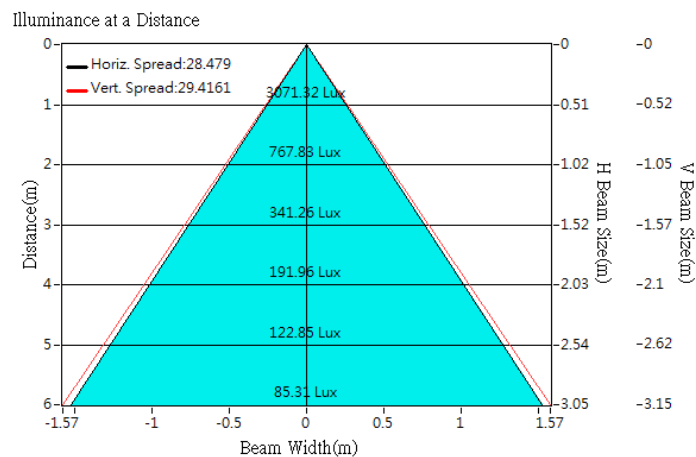
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>MHD-G</b>		
LES / LED Size	7.0 x 7.0		
FWHM (D50)	28°		
Field Angle (D10)	58°		
H (distance)	2.5 mm		
MCPCB Height	1.1 mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1136 lm	Measured @ 12.9 W	
Material	PC / UL94V2		

## cd/klm

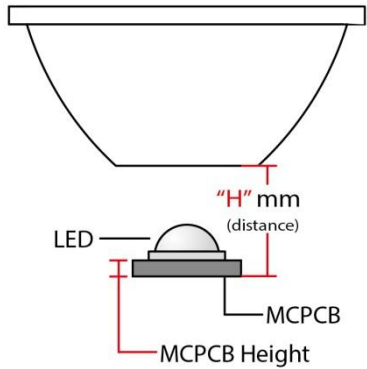


## Illuminance At Distances

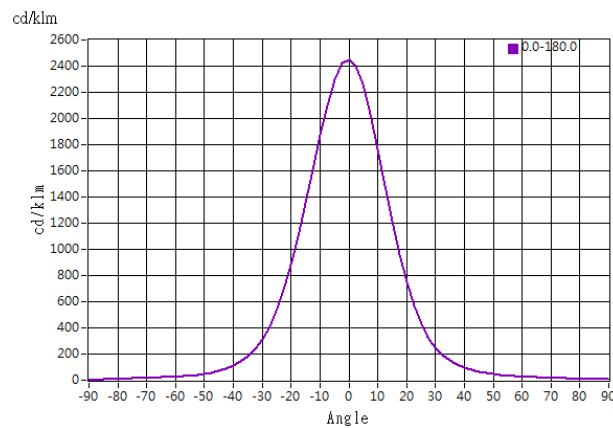




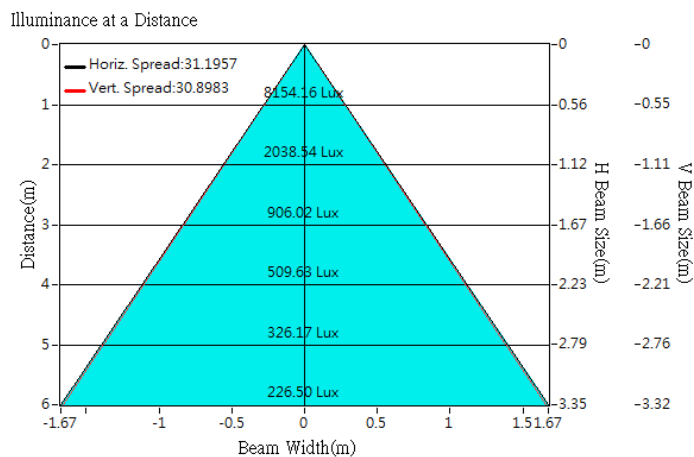
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p> 
LED	<b>XHP 70.2</b>		
LES / LED Size	7.0 x 7.0		
FWHM (D50)	31°		
Field Angle (D10)	63°		
H (distance)	2.5 mm		
MCPCB Height	1.1 mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	3335 lm	Measured @ 32.3 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

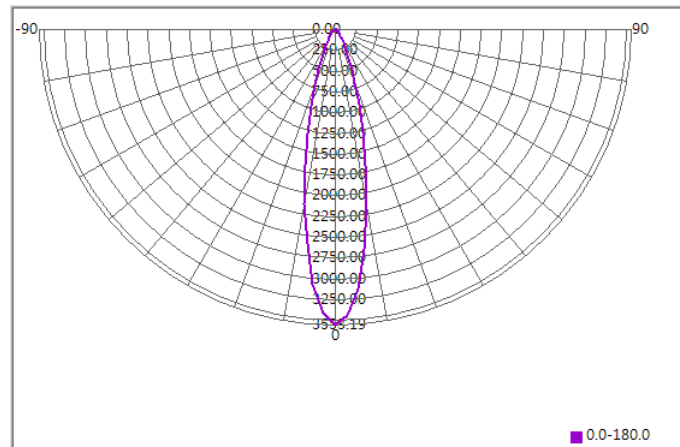




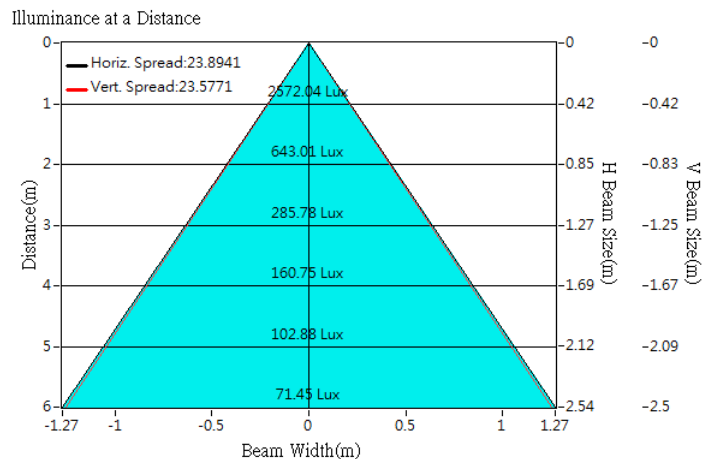
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CMA1303</b>		
LES / LED Size	Φ 4.5 mm		
FWHM (D50)	24°		
Field Angle (D10)	52°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	723 lm	Measured @ 6.73 W	
Material	PC / UL94V2		

## cd/klm

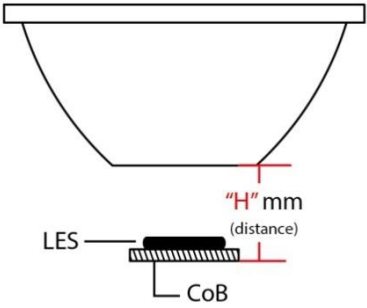


## Illuminance At Distances

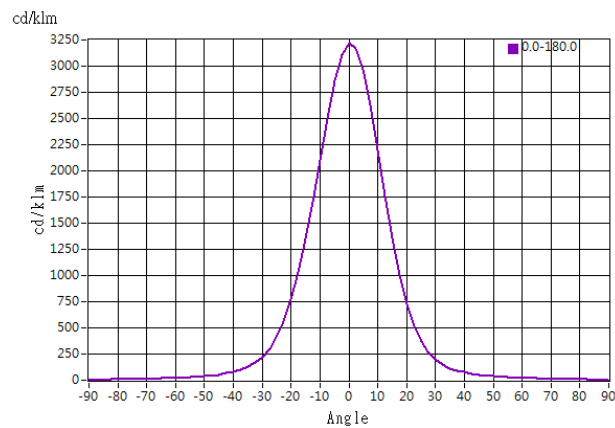




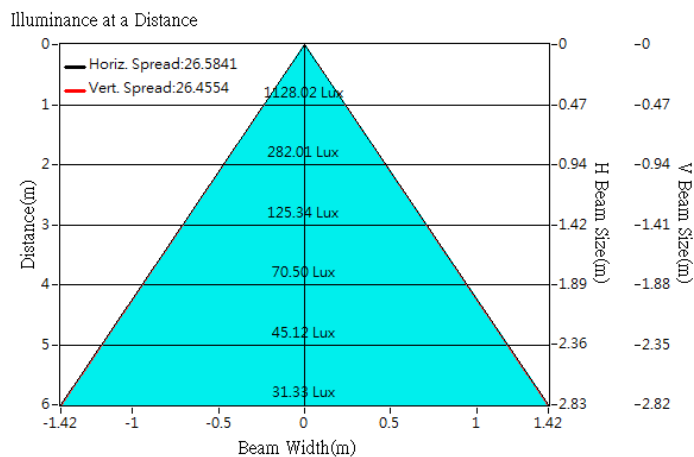
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p> 
LED	<b>CREE CXA1304</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	27°		
Field Angle (D10)	53°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	350 lm	Measured @ 3.7 W	
Material	PC / UL94V2		

## cd/klm

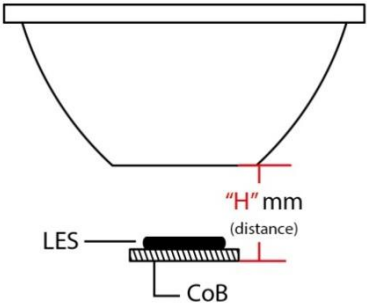


## Illuminance At Distances

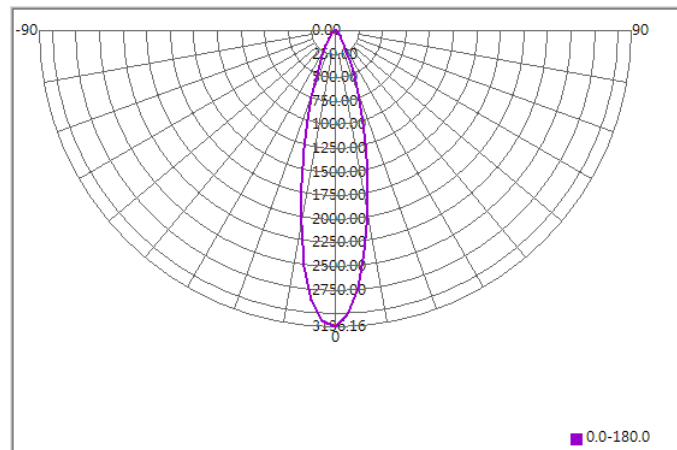




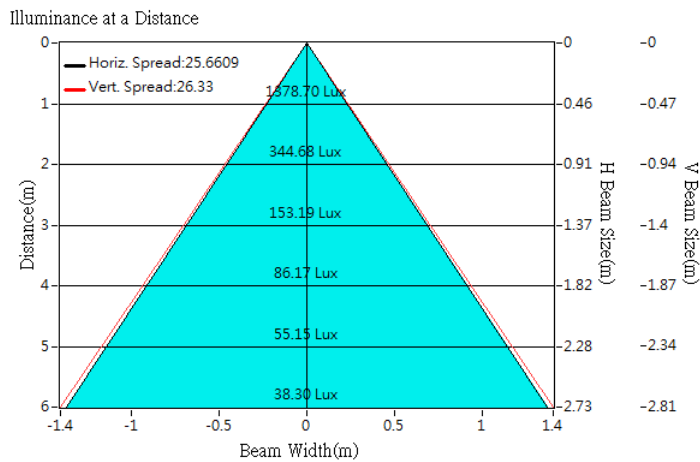
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p> 
LED	<b>CREE CXB1304</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	26°		
Field Angle (D10)	54°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	440 lm	Measured @ 3.4 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances



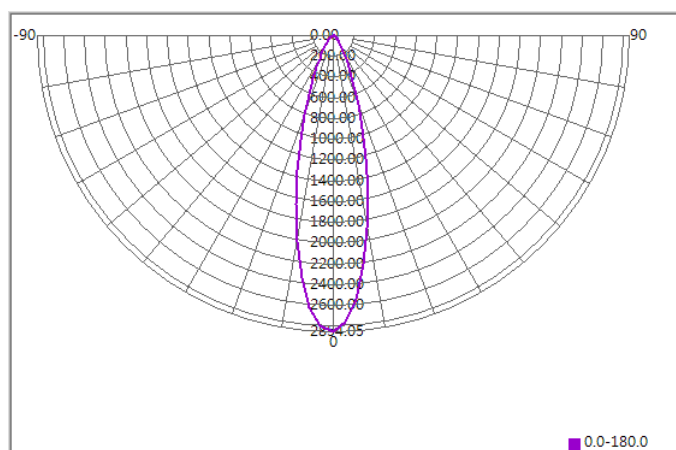




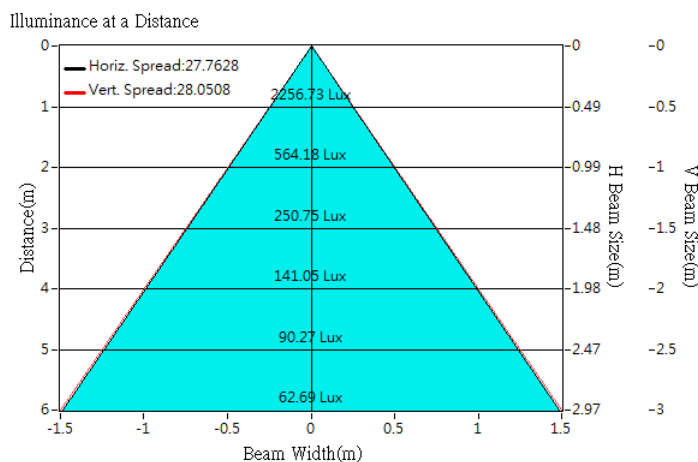
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMA1306</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	28°		
Field Angle (D10)	57°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	790 lm	Measured @ 6.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

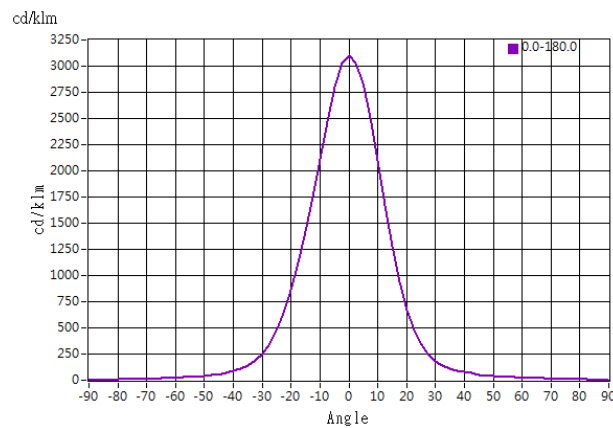




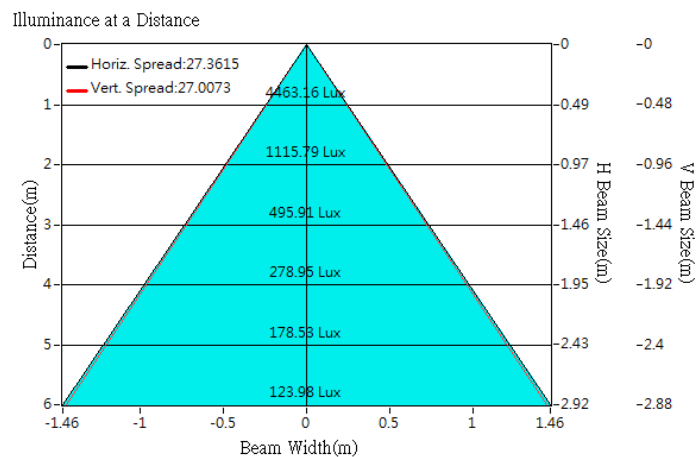
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CXB1310</b>		
LES / LED Size	Φ 6 mm		
FWHM (D50)	27°		
Field Angle (D10)	54°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1442 lm	Measured @ 12.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

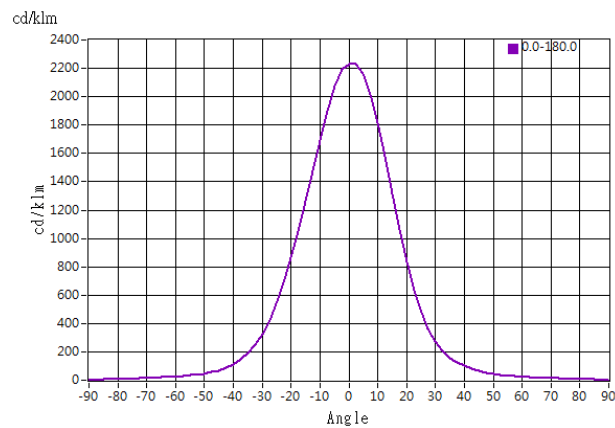




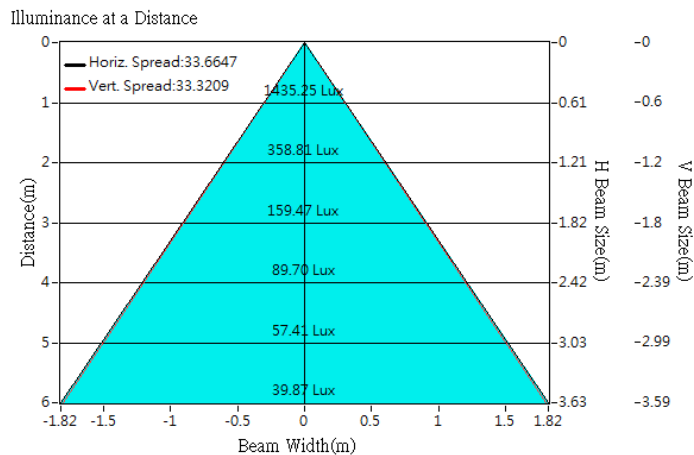
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CXA1507</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°		
Field Angle (D10)	65°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	643 lm	Measured @ 7.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

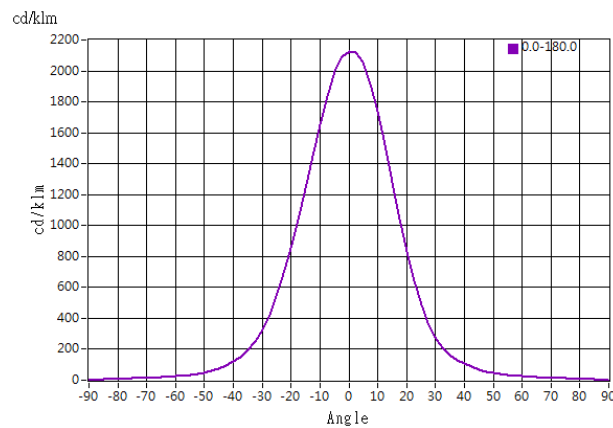




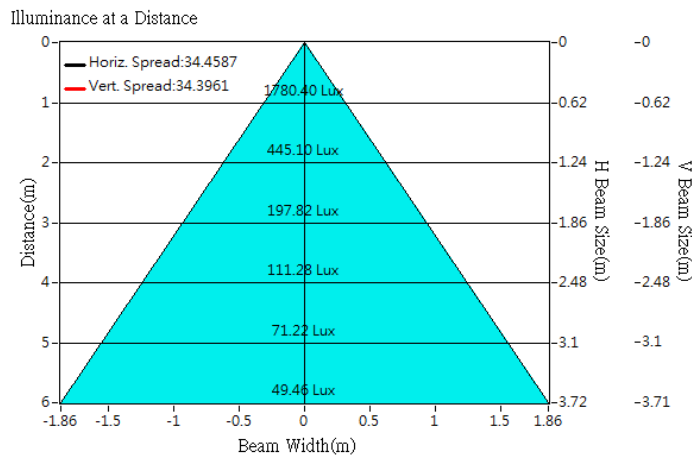
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CXB1507</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°		
Field Angle (D10)	67°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	837 lm	Measured @ 7.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

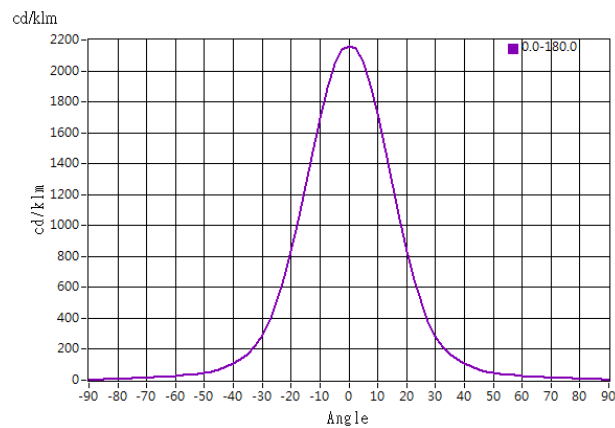




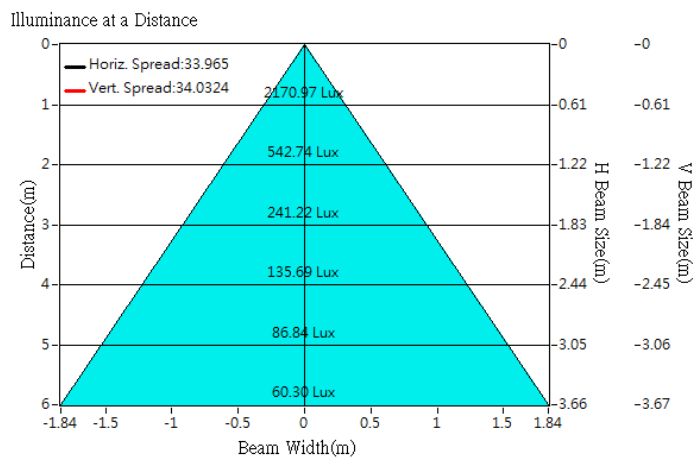
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CXA1510</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°		
Field Angle (D10)	66°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1005 lm	Measured @ 9.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

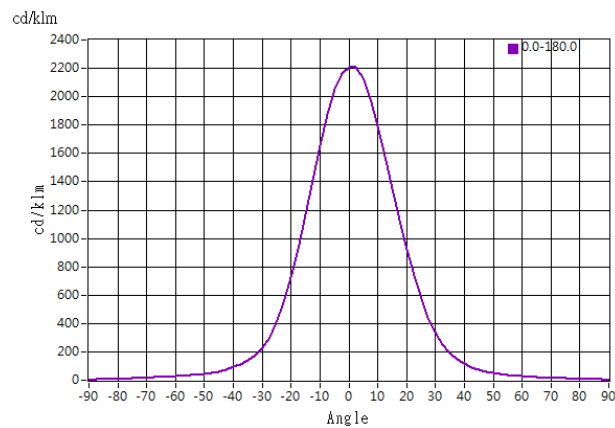




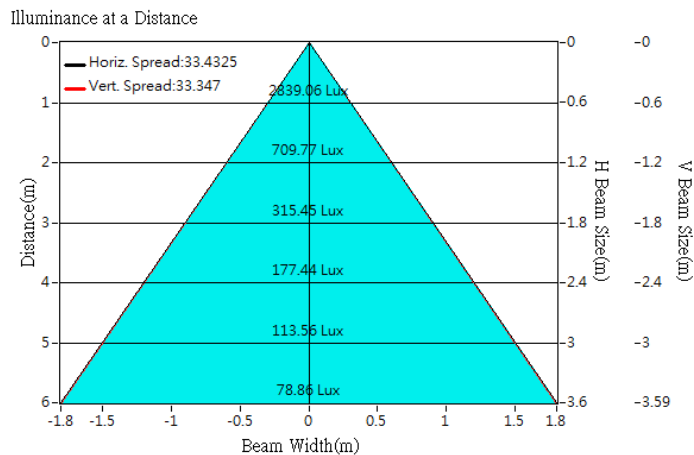
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CXA1512</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	33°		
Field Angle (D10)	64°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1284 lm	Measured @ 13.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

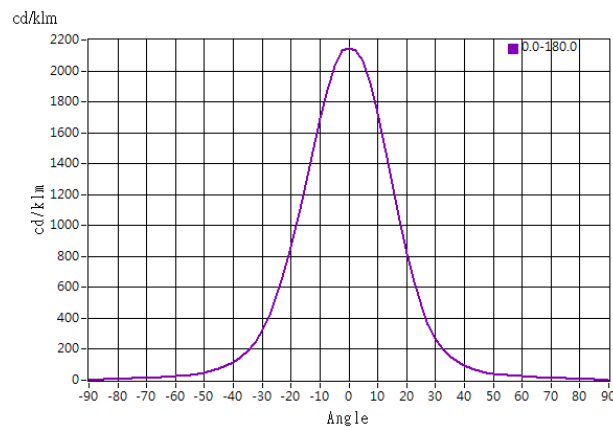




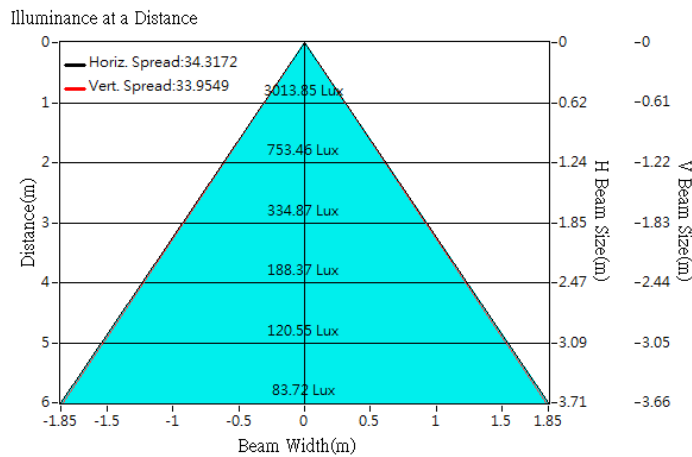
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CXB1512</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°		
Field Angle (D10)	66°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1403 lm	Measured @ 12.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

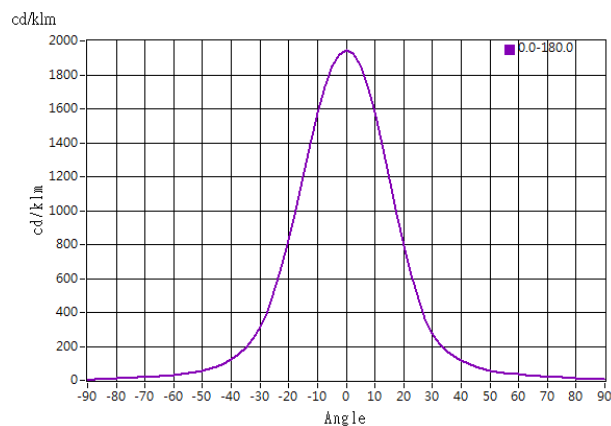




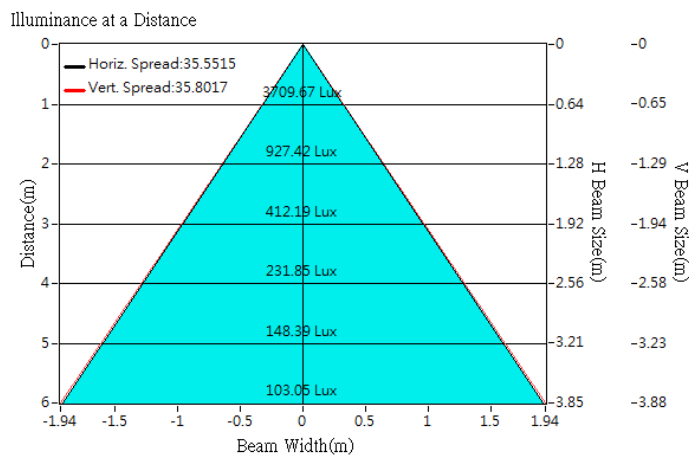
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CMA1516</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	36°		
Field Angle (D10)	69°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1908lm	Measured @ 15.8 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances



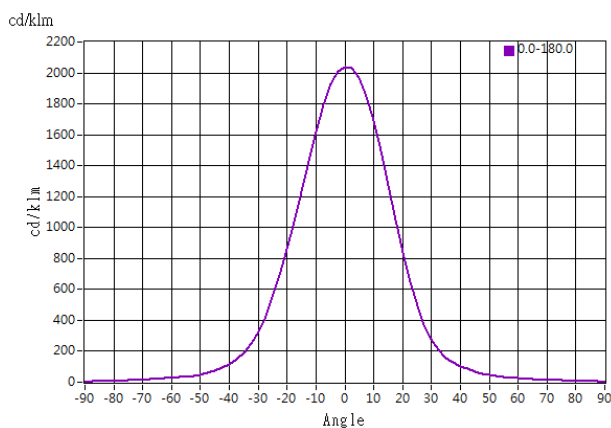




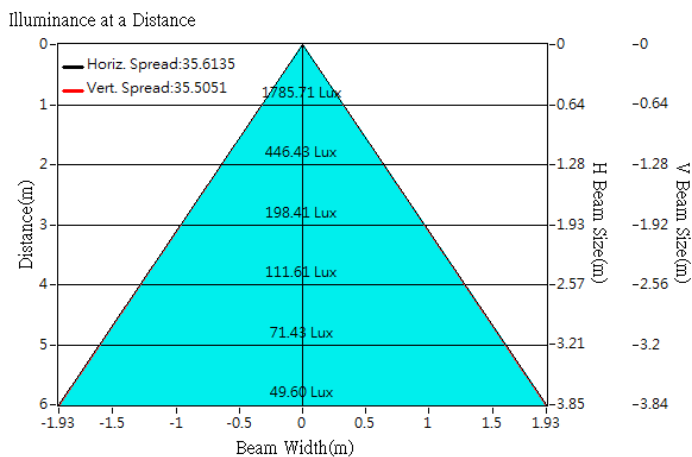
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CXB1520</b>		
LES / LED Size	Φ 9 mm		
FWHM (D50)	36°		
Field Angle (D10)	67°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	876 lm	Measured @ 6.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

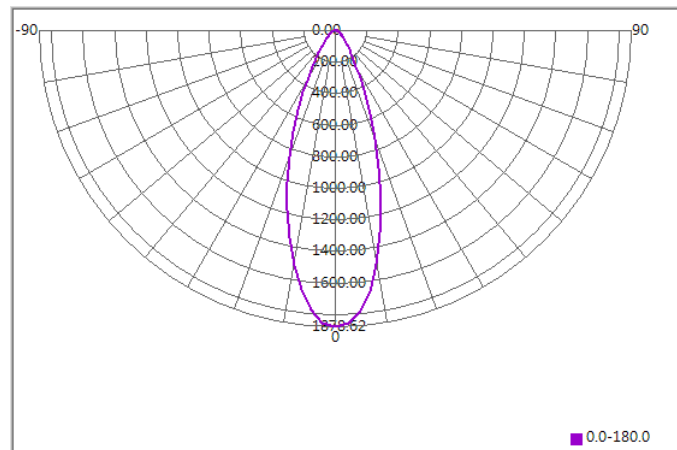




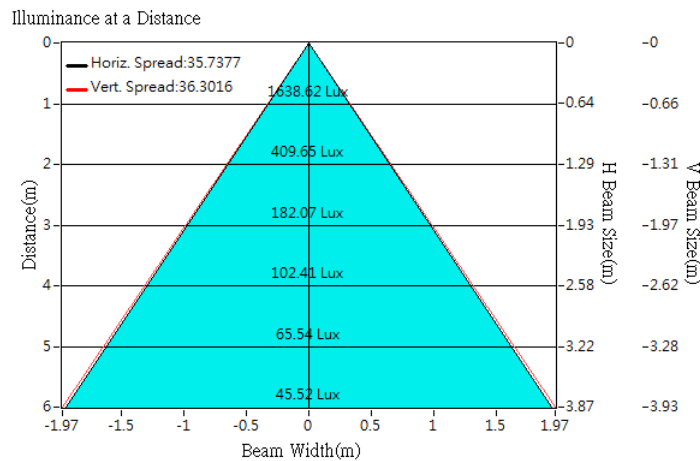
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p> <p>LES CoB</p>
LED	<b>CMT1407</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	36°		
Field Angle (D10)	71°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	872 lm	Measured @ 6.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

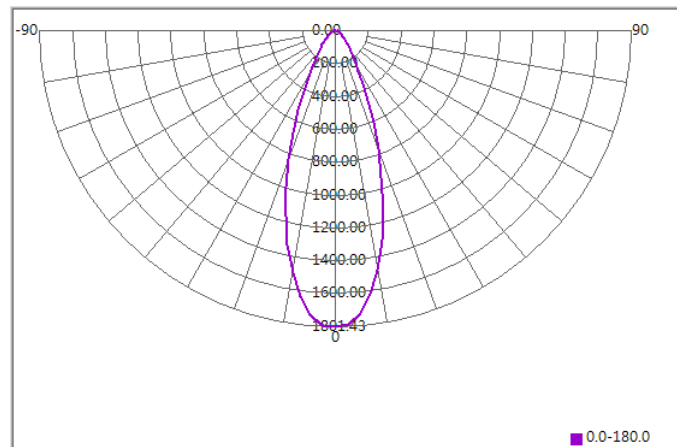




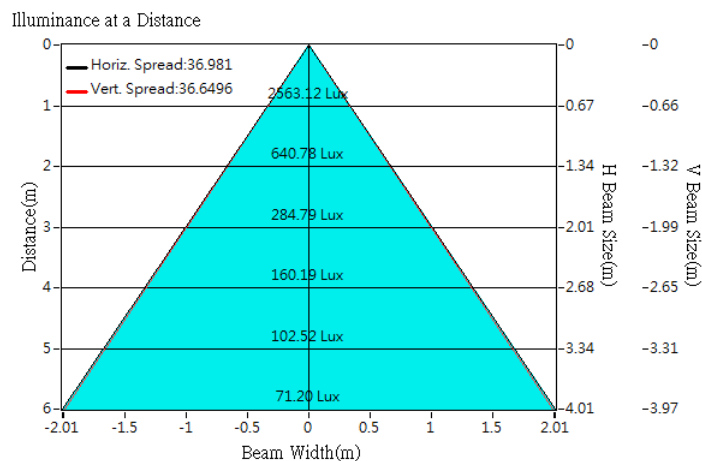
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CMT1412</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	37°		
Field Angle (D10)	73°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1423 lm	Measured @ 12.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

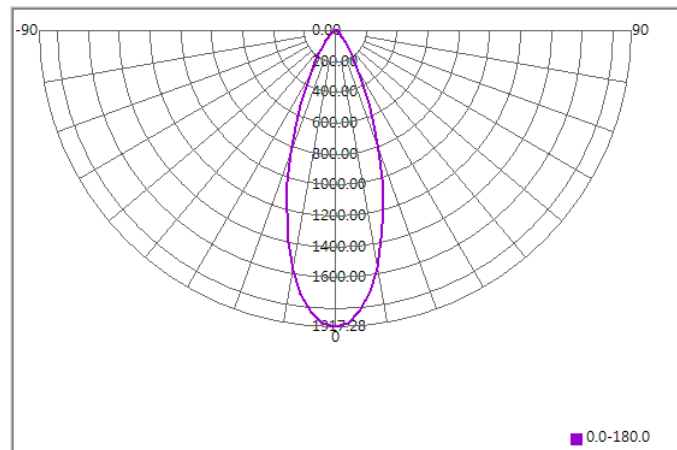




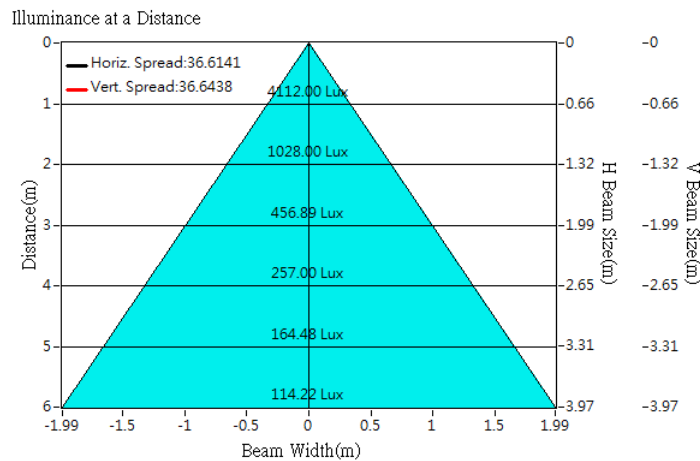
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CMT1420</b>		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	37°		
Field Angle (D10)	70°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2144 lm	Measured @ 19 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

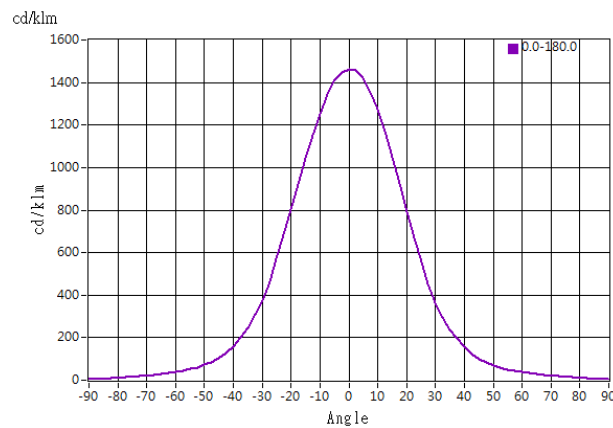




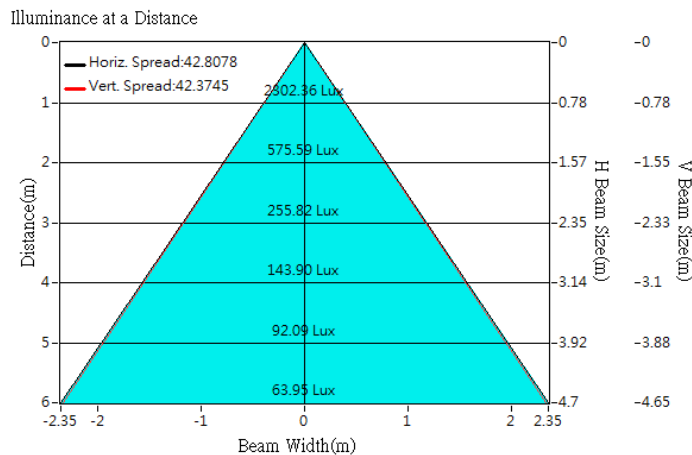
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CXA1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	43°		
Field Angle (D10)	82°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1576 lm	Measured @ 16.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

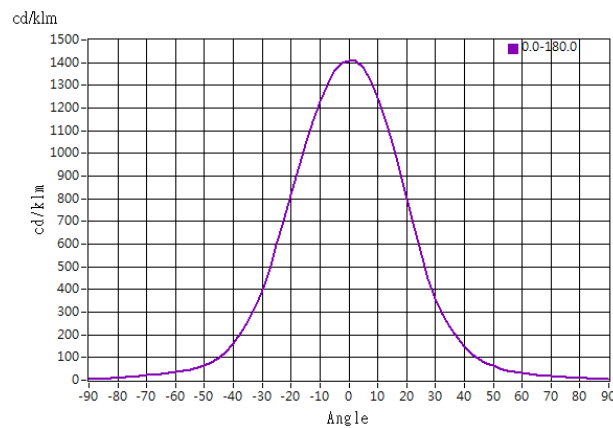




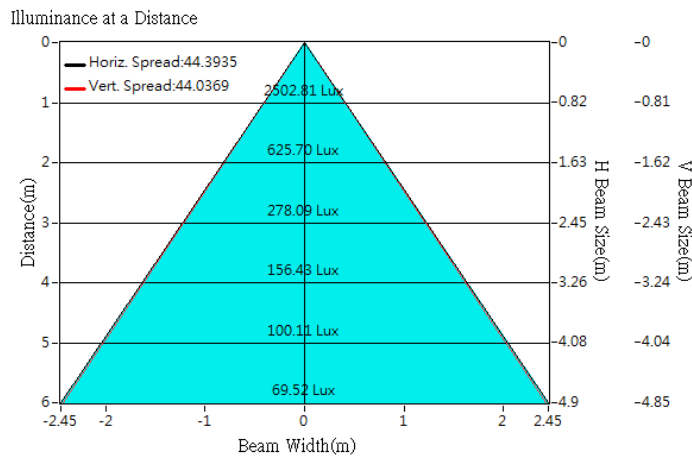
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CXB1816</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	44°		
Field Angle (D10)	82°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1779 lm	Measured @ 15.8W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

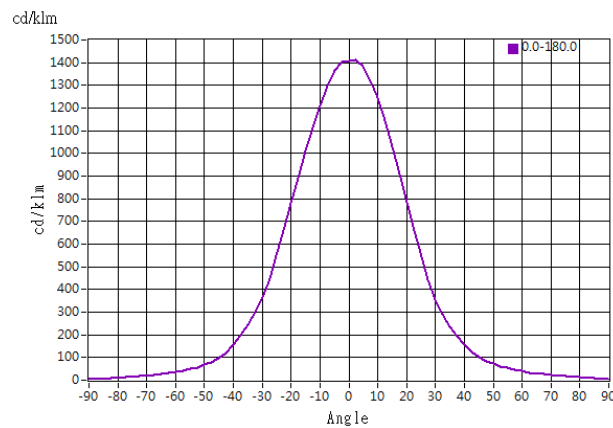




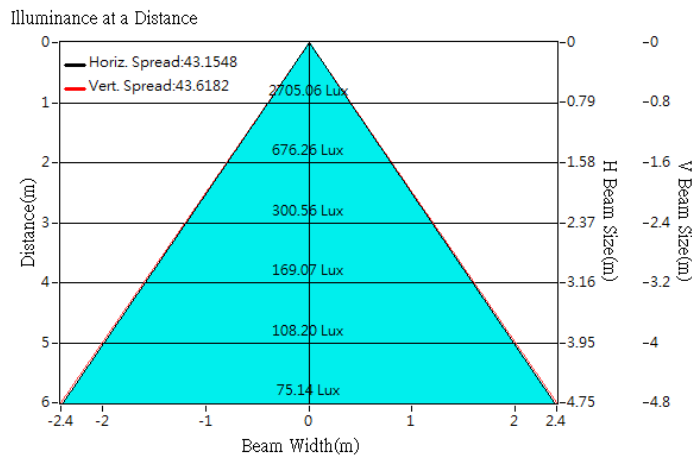
## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CXA1820</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	43°		
Field Angle (D10)	82°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1922 lm	Measured @ 20 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

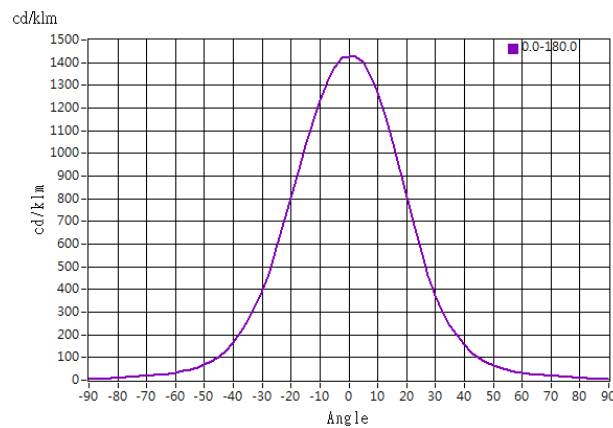




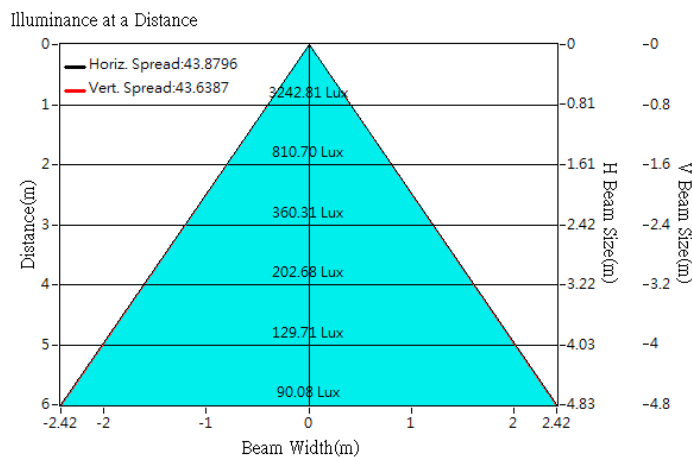
## Optical Characteristics

Model Number	CKO-CH15-045021-1605	<p>"H" definition</p>
LED	<b>CREE CXB1820</b>	
LES / LED Size	Φ 12 mm	
FWHM (D50)	44°	
Field Angle (D10)	83°	
H (distance)	2.5mm	
Dimension	Φ =45 mm, Thickness=20.9 mm	
Luminous Flux	2273 lm	
Material	PC / UL94V2	

## cd/klm



## Illuminance At Distances



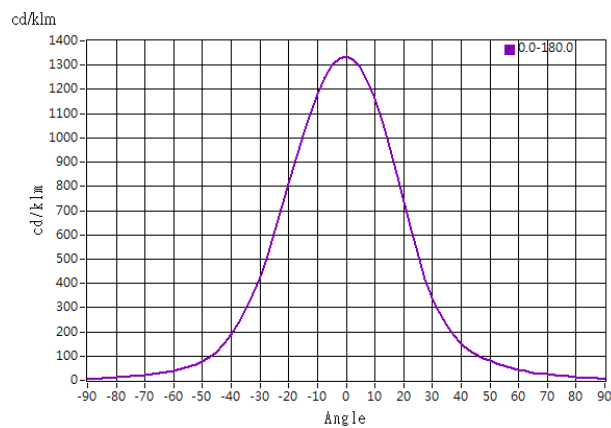




## Optical Characteristics

Model Number	CKO-CH15-045021-1605		<p>"H" definition</p>
LED	<b>CREE CMA1825</b>		
LES / LED Size	Φ 12 mm		
FWHM (D50)	45°		
Field Angle (D10)	86°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2840lm	Measured @ 25.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

