



Product Model Number

CKO-CH15-060027-4309

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

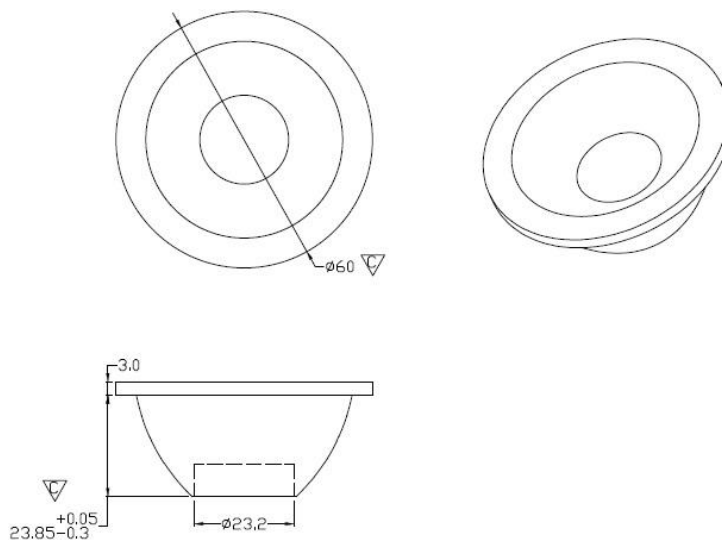


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- C. Identity Code
- D. Lens / Fixture Size
Ex: 075026=Φ75mm / Thickness=26mm (round up)
- C. Serial Numbers

The lens datasheet is applicable for **Philips LED**, that manufactured by Chun Kuang Optics Corp.

✓ Dimensions (mm) : Φ60 x 26.85



▽:Critical Dimension



✓ Optical Characteristics – Angle Performances

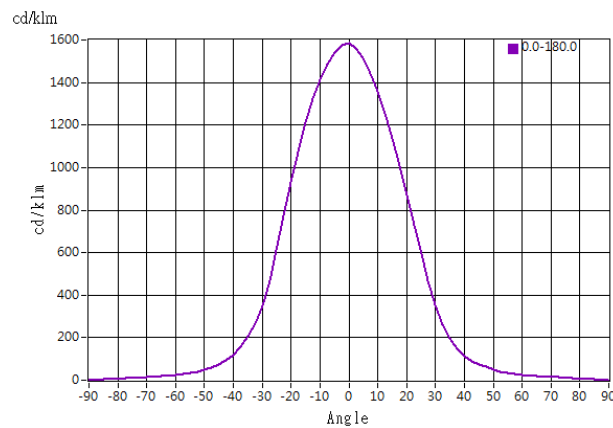
Philips	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
Fortimo SLM 1203 L09 G6	Φ9	44°	74°
Fortimo SLM 1203 L09 G6_DL	Φ9	46°	79°
Fortimo SLM 1203 L09 G6_PI	Φ9	46°	79°
Fortimo SLM PW 1204 L09 G7	Φ9	43°	74°
Fortimo SLM 1201 L09 G7N	Φ9.8	42°	70°
Fortimo SLM 1202 L09 G7N	Φ9.8	42°	70°
Fortimo SLM 1204 L09 G7N	Φ9.8	43°	71°
Fortimo SLM 1205 L13 G7	Φ13	48°	82°
Fortimo SLM PW 1205 L13 G6	Φ13	47°	79°
Fortimo SLM PW 1205 L13 G6_DL	Φ13	48°	80°
Fortimo SLM PW 1205 L13 G6_PI	Φ13	48°	80°
Fortimo SLM 1205 L15 G7N	Φ14.5	48°	81°
Fortimo SLM 1206 L15 G7N	Φ14.5	48°	77°
Fortimo SLM 1208 L15 G7N	Φ14.5	48°	81°
Fortimo SLM 1208 L15 G7	Φ15	48°	82°
Fortimo SLM 1208 L15 G6	Φ15	48°	81°
Fortimo SLM 1208 L15 G6_DL	Φ15	49°	82°
Fortimo SLM 1208 L15 G6_PI	Φ15	49°	82°



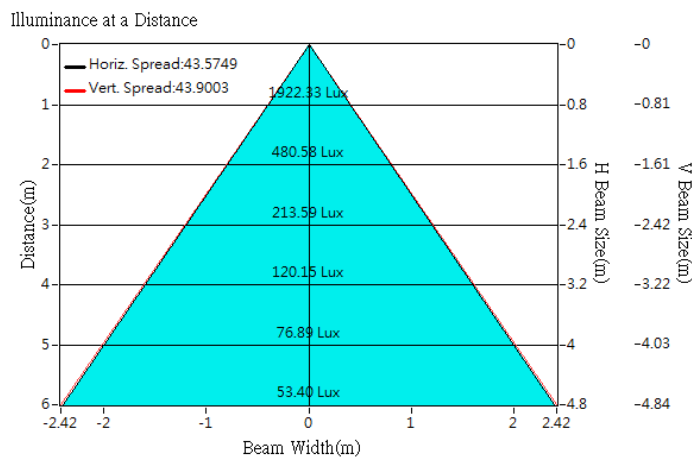
Optical Characteristics

Model Number	CKO-CH15-060027-4309		
LED	Fortimo SLM 1203 L09 G6		
LES / LED Size	Φ 9 mm		
FWHM (D50)	44°		
Field Angle (D10)	74°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1214 lm	Measured @ 10.4 W	
Material	PC / UL94V2		

cd/klm

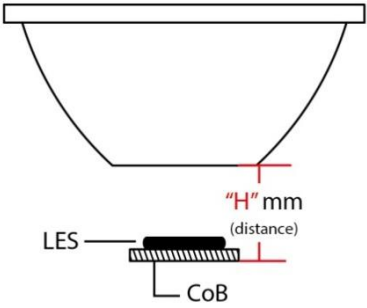


Illuminance At Distances

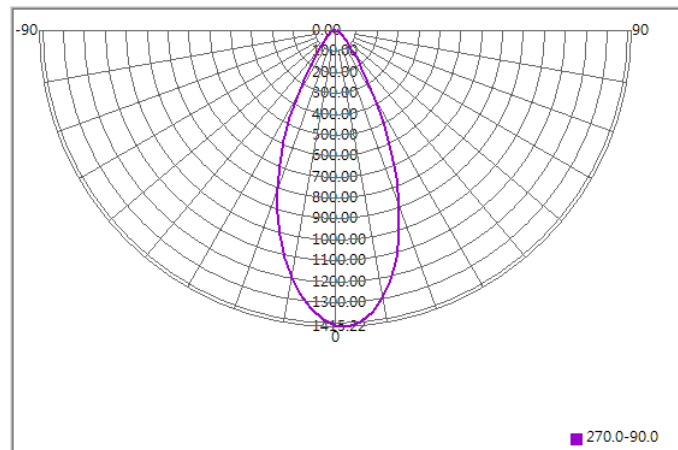




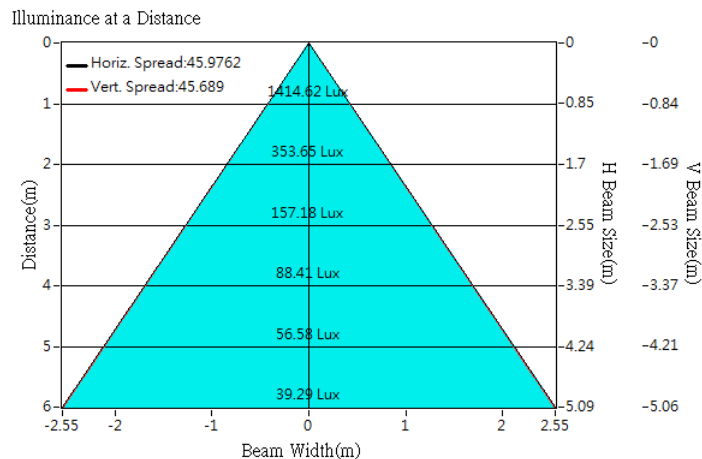
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p> 
LED	Fortimo SLM 1203 L09 G6_DL		
LES / LED Size	Φ 9 mm		
FWHM (D50)	46°		
Field Angle (D10)	79°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1003 lm	Measured @ 10.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

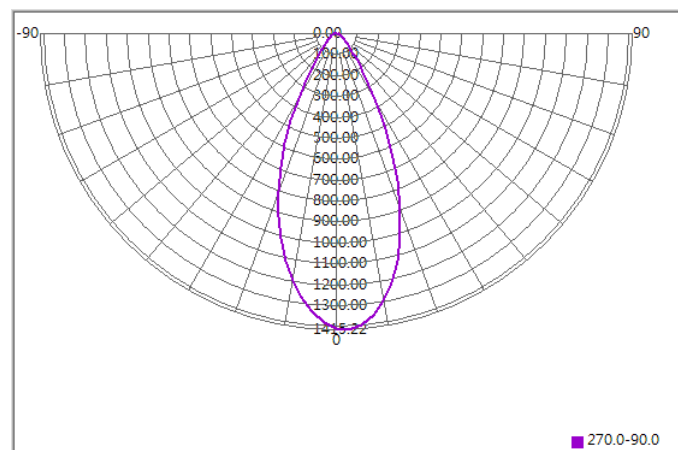




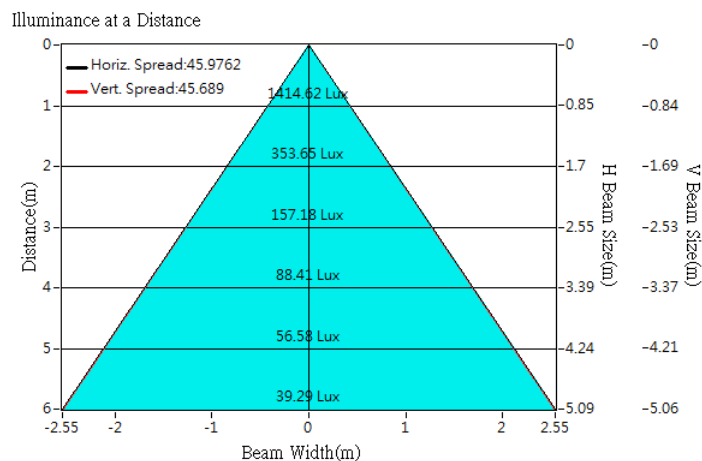
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	Fortimo SLM 1203 L09 G6_PI		
LES / LED Size	Φ 9 mm		
FWHM (D50)	46°		
Field Angle (D10)	79°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1003 lm	Measured @ 10.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

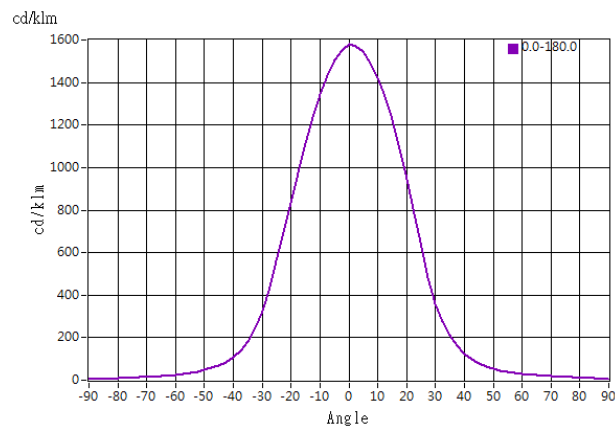




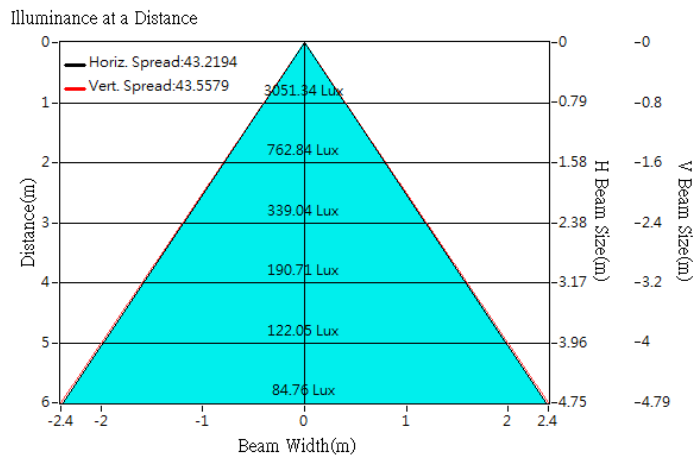
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	Fortimo SLM PW 1204 L09 G7		
LES / LED Size	Φ 9 mm		
FWHM (D50)	43°		
Field Angle (D10)	74°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1933 lm	Measured @ 21.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

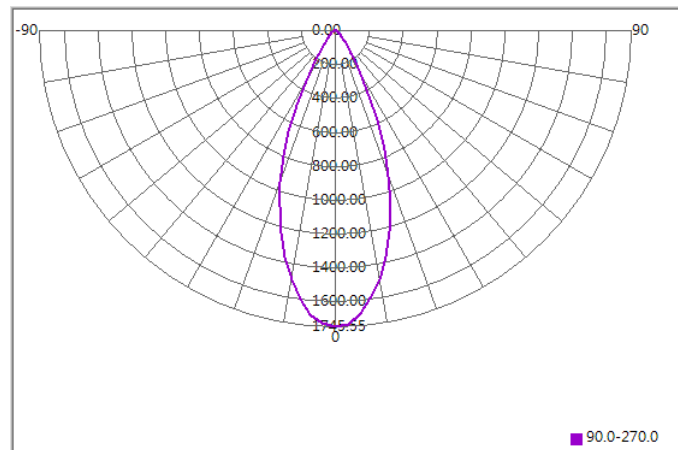




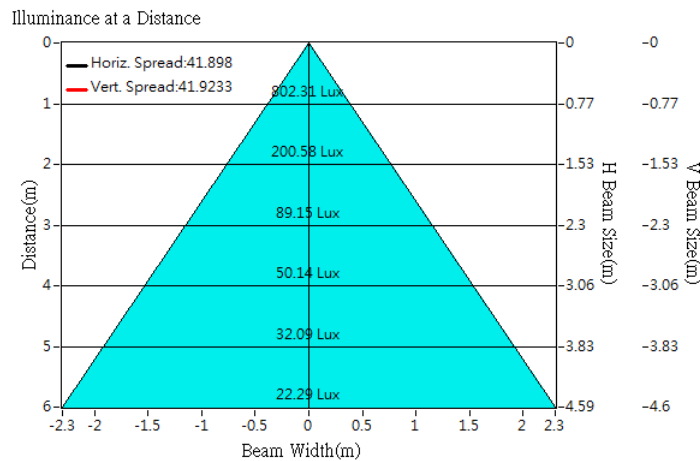
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	Fortimo SLM 1201 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	42°		
Field Angle (D10)	70°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	459 lm	Measured @ 3.09 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

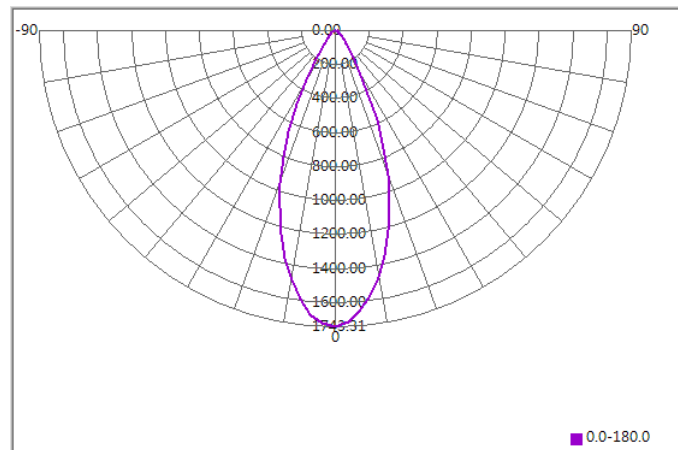




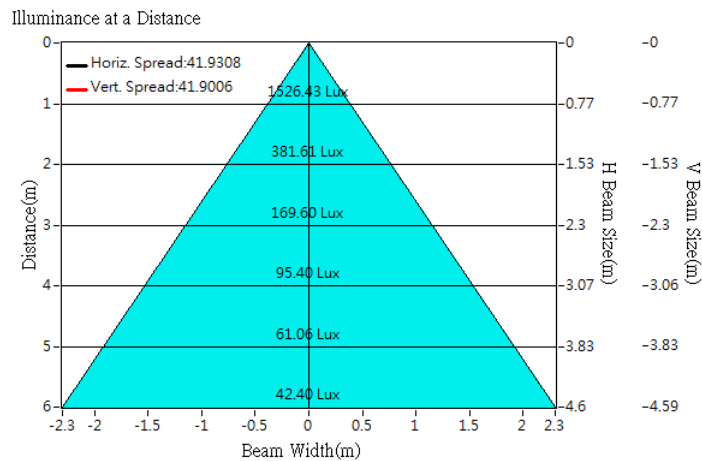
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p> <p>LES CoB</p>
LED	Fortimo SLM 1202 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	42°		
Field Angle (D10)	70°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	875 lm	Measured @ 6.1 W	
Material	PC / UL94V2		

cd/klm

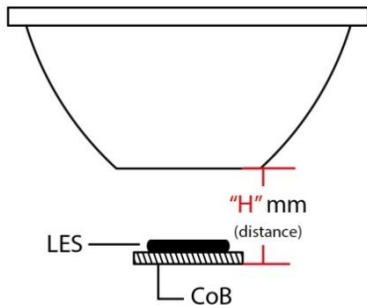


Illuminance At Distances

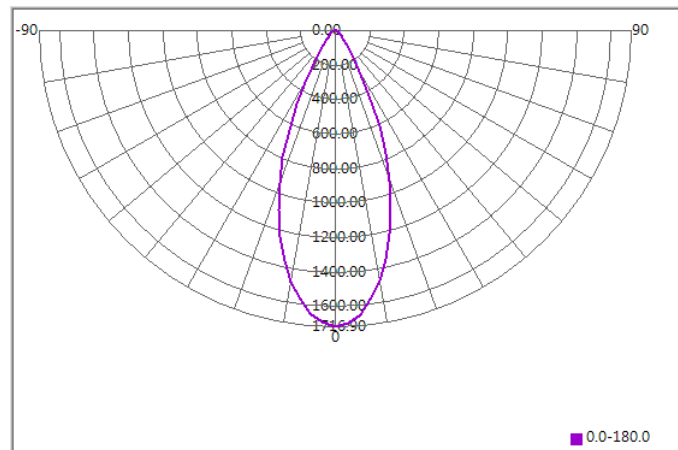




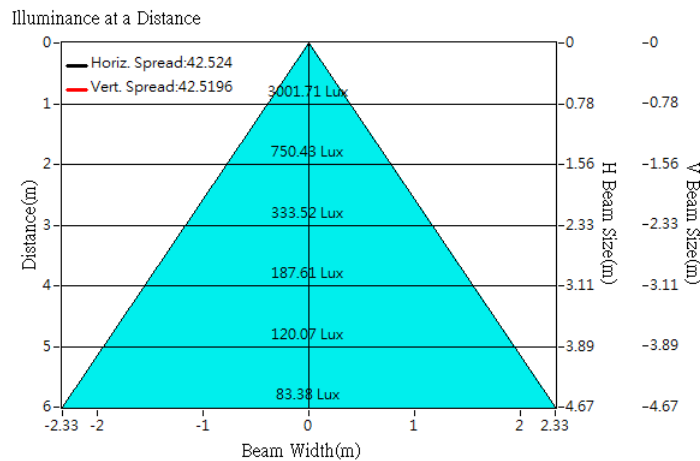
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p> 
LED	Fortimo SLM 1204 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	43°		
Field Angle (D10)	71°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1748 lm	Measured @ 12.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

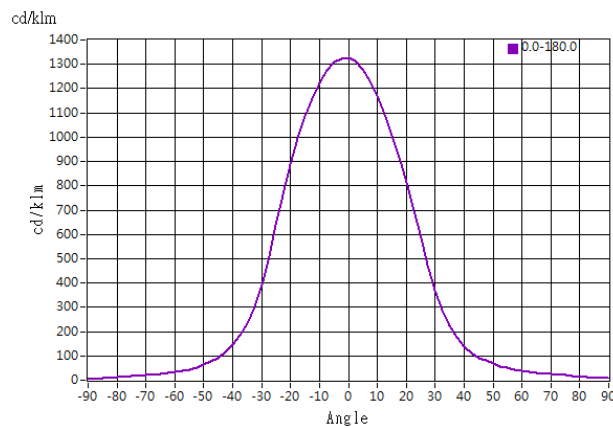




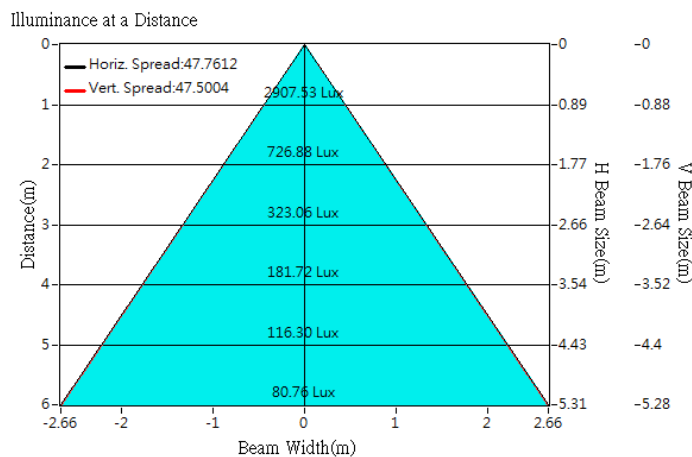
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	Fortimo SLM 1205 L13 G7		
LES / LED Size	Φ 13 mm		
FWHM (D50)	48°		
Field Angle (D10)	82°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2192 lm	Measured @ 17.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

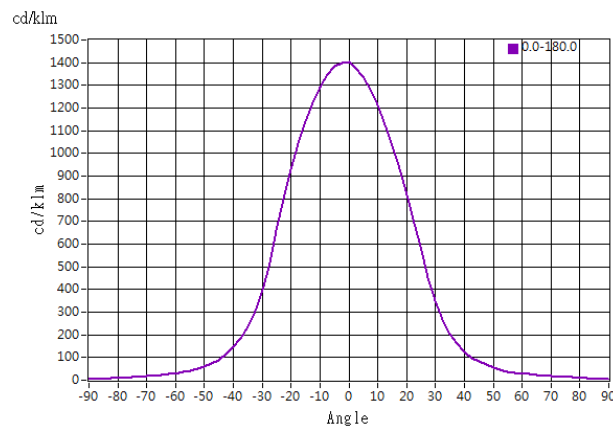




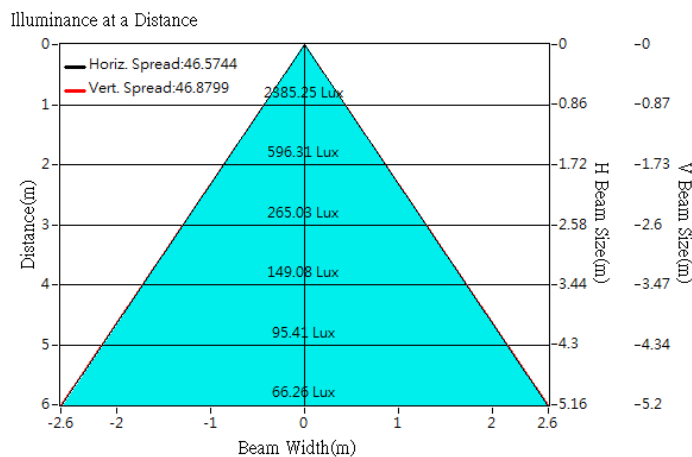
Optical Characteristics

Model Number	CKO-CH15-060027-4309		
LED	Fortimo SLM 1205 L13 G6		
LES / LED Size	Φ 13 mm		
FWHM (D50)	47°		
Field Angle (D10)	79°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1701 lm	Measured @ 13.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

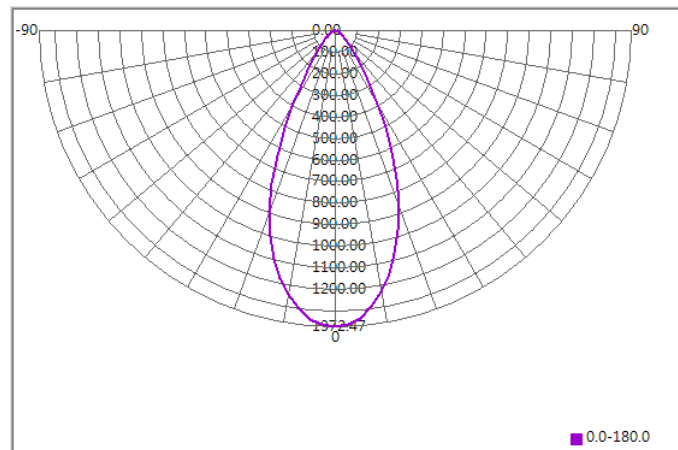




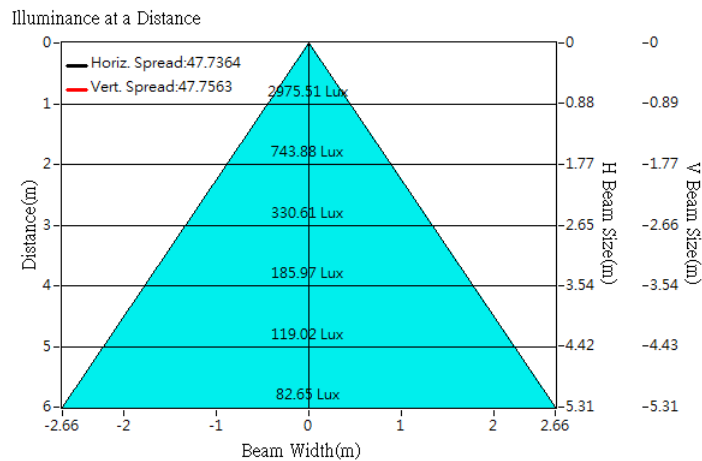
Optical Characteristics

Model Number	CKO-CH15-060027-4309		
LED	Fortimo SLM PW 1205 L13 G6_DL		
LES / LED Size	Φ 13 mm		
FWHM (D50)	48°		
Field Angle (D10)	80°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2168 lm	Measured @ 17.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

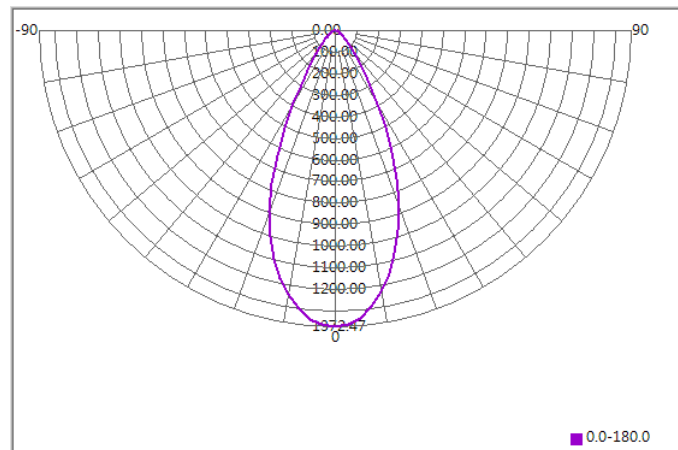




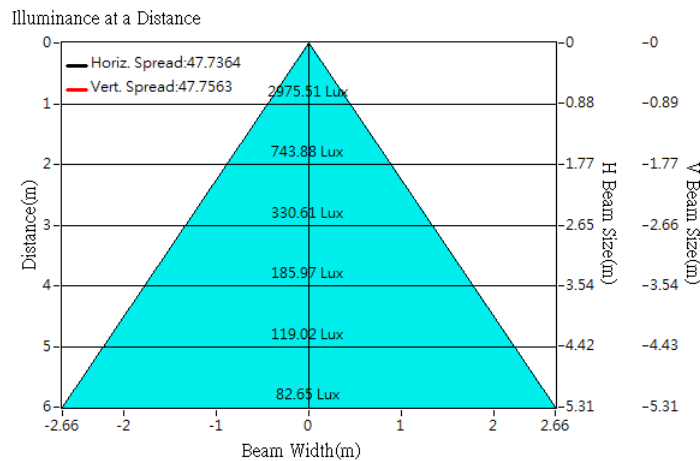
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	Fortimo SLM PW 1205 L13 G6_PI		
LES / LED Size	Φ 13 mm		
FWHM (D50)	48°		
Field Angle (D10)	80°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2168 lm	Measured @ 17.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

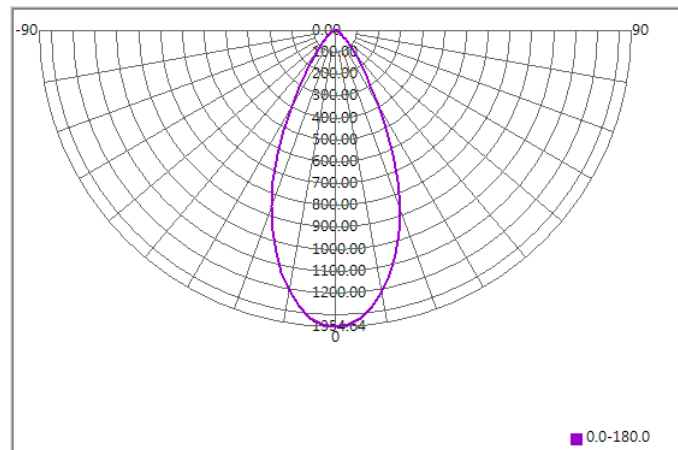




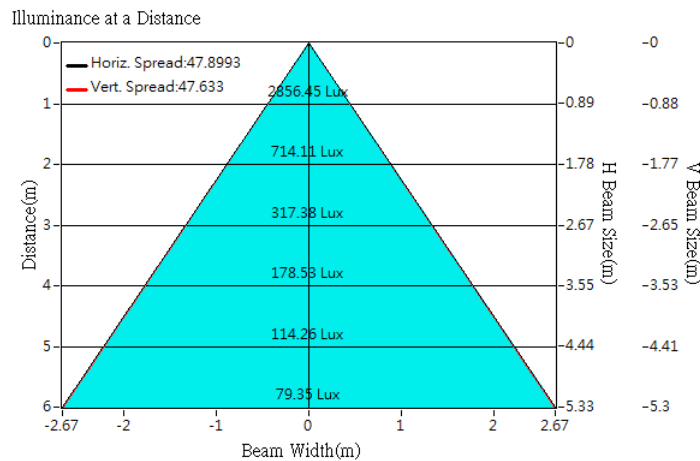
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	Fortimo SLM 1205 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	48°		
Field Angle (D10)	81°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2108 lm	Measured @ 15.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

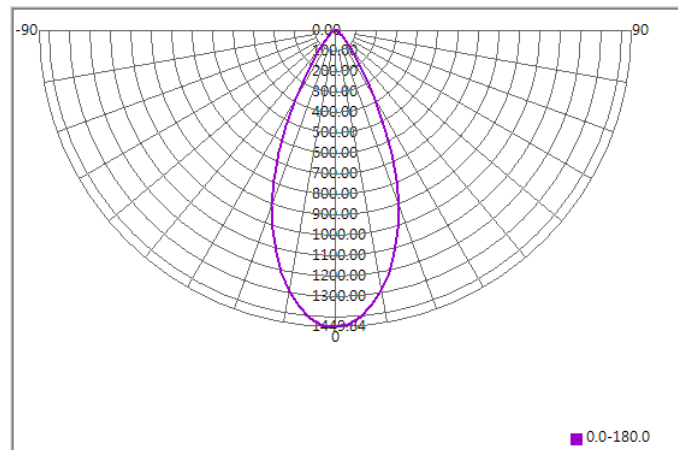




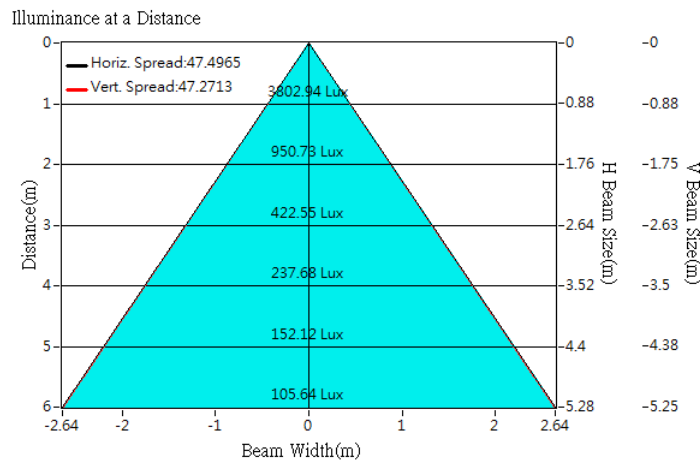
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	Fortimo SLM 1206 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	48°		
Field Angle (D10)	77°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2623 lm	Measured @ 18.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

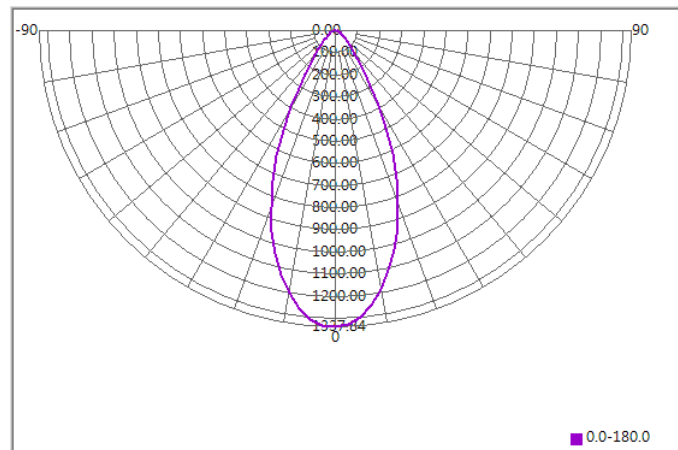




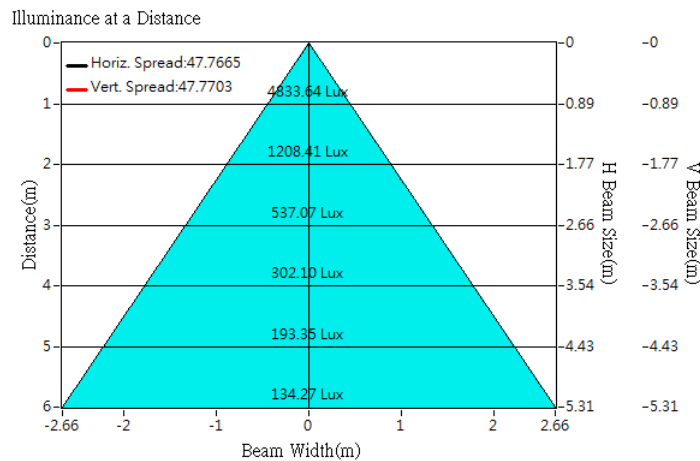
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	Fortimo SLM 1208 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	48°		
Field Angle (D10)	81°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	3613 lm	Measured @ 24.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

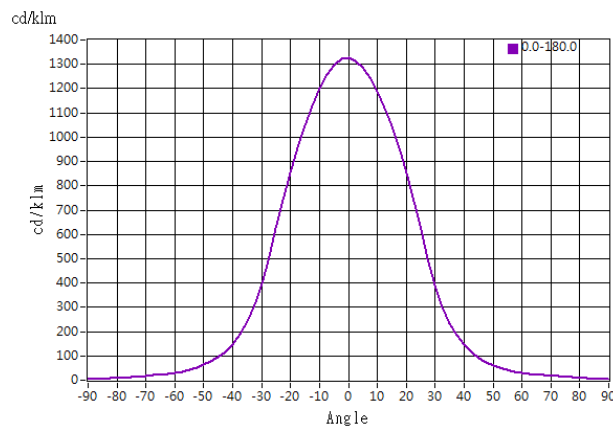




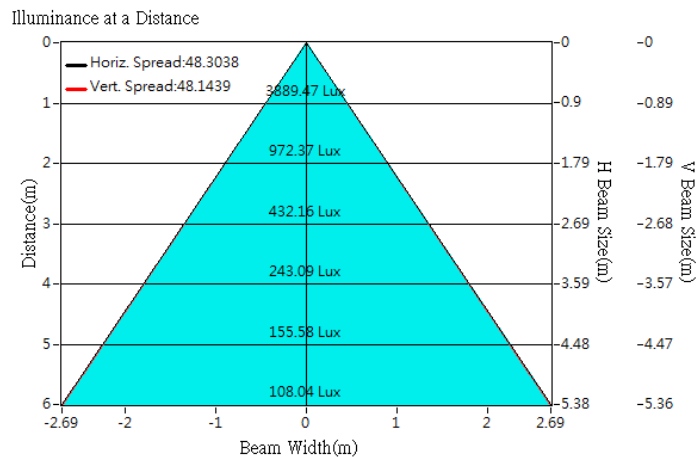
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	Fortimo SLM 1208 L15 G7		
LES / LED Size	Φ 15 mm		
FWHM (D50)	48°		
Field Angle (D10)	82°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2934 lm	Measured @ 25.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

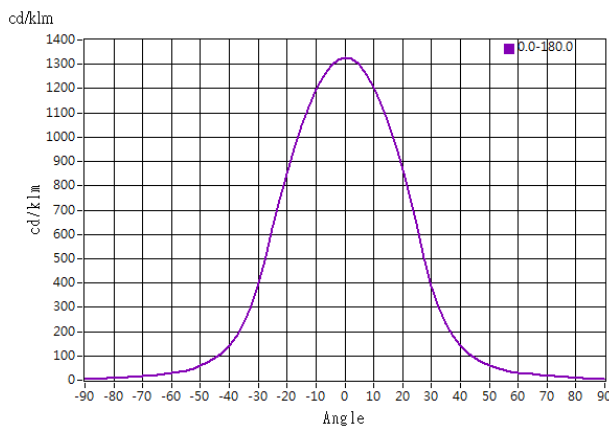




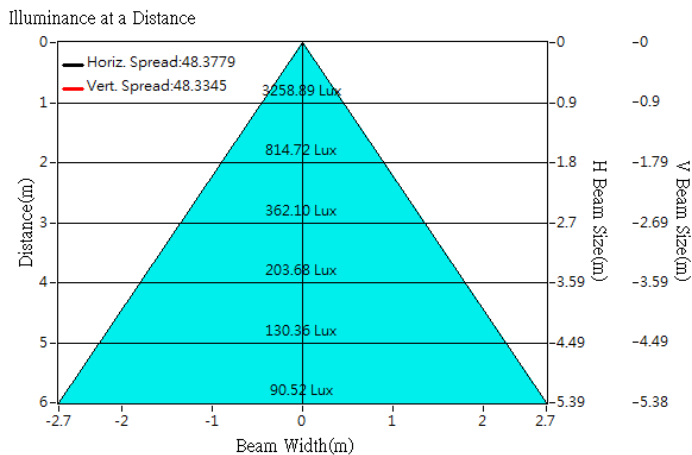
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	Fortimo SLM 1208 L15 G6		
LES / LED Size	Φ 15 mm		
FWHM (D50)	48°		
Field Angle (D10)	81°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2459 lm	Measured @ 26.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

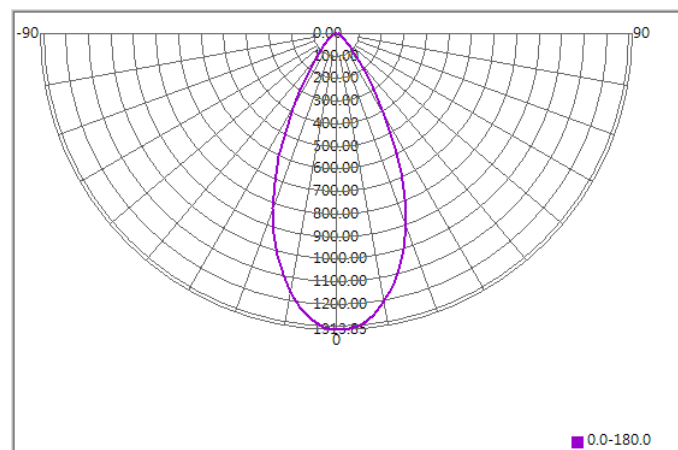




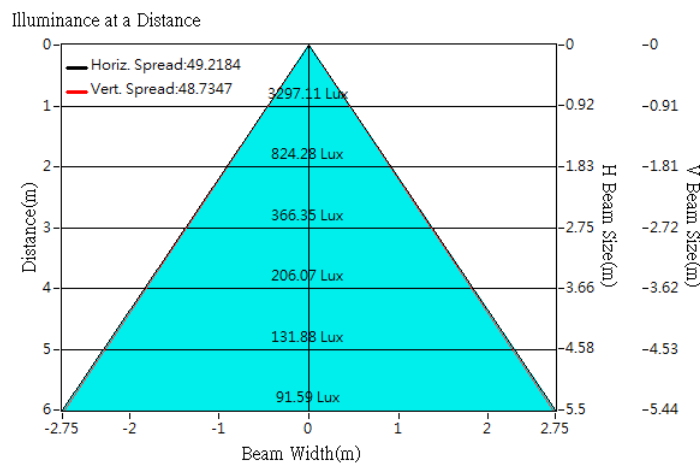
Optical Characteristics

Model Number	CKO-CH15-060027-4309		
LED	Fortimo SLM 1208 L15 G6_DL		
LES / LED Size	Φ 15 mm		
FWHM (D50)	49°		
Field Angle (D10)	82°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2509 lm	Measured @ 26.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

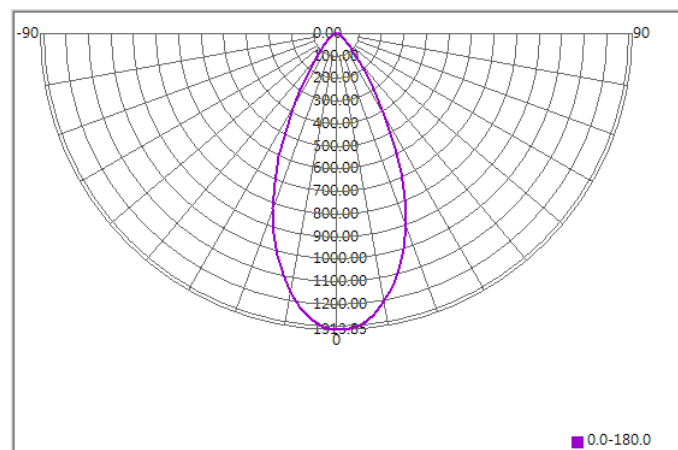




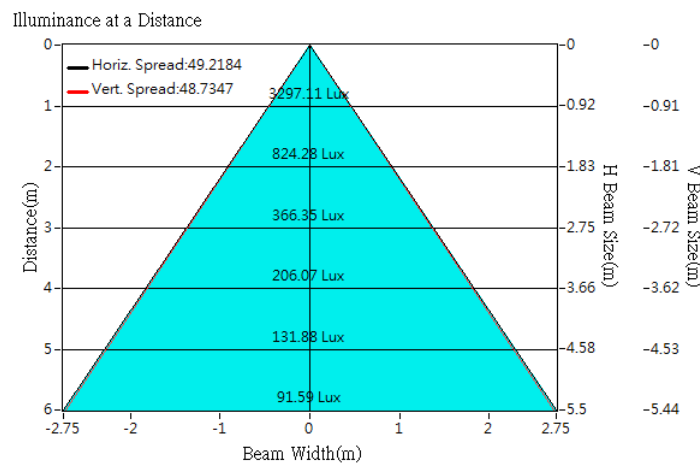
Optical Characteristics

Model Number	CKO-CH15-060027-4309		
LED	Fortimo SLM 1208 L15 G6_PI		
LES / LED Size	Φ 15 mm		
FWHM (D50)	49°		
Field Angle (D10)	82°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2509 lm	Measured @ 26.8 W	
Material	PC / UL94V2		

cd/klm

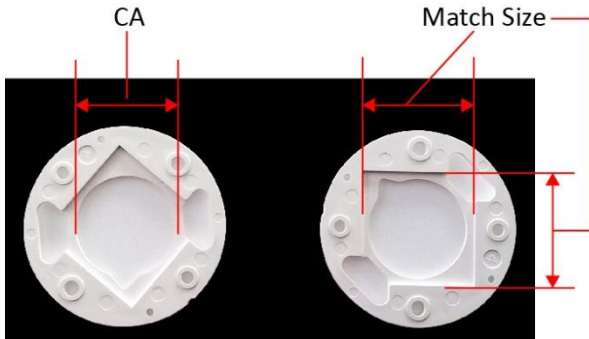


Illuminance At Distances





Lens Accessories - CoB Holder



Example of LES Area & LED Size Dimension Locations

Product Model	Match Size (mm)	CA (mm)	Material	Applicability
CKO-HC14-161911-0501	16.3 x 19.3	Φ 11.9	PBT	Philips 1202
CKO-HC14-161911-0501	16.3 x 19.3	Φ 11.9	PBT	Philips 1203
CKO-HC14-202419-0502	20.3 x 24.3	Φ 19.2	PBT	Philips 1204
CKO-HC14-202419-0502	20.3 x 24.3	Φ 19.2	PBT	Philips 1205