



Product Model Number

CKO-CH15-060027-4303

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

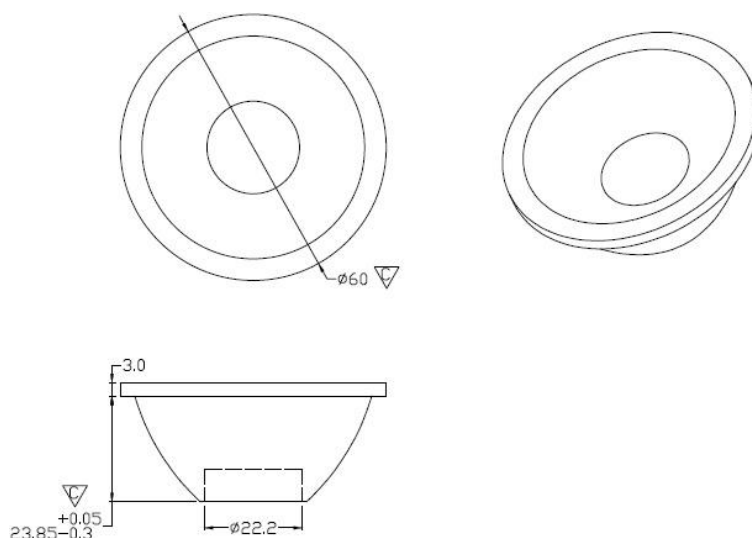


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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**

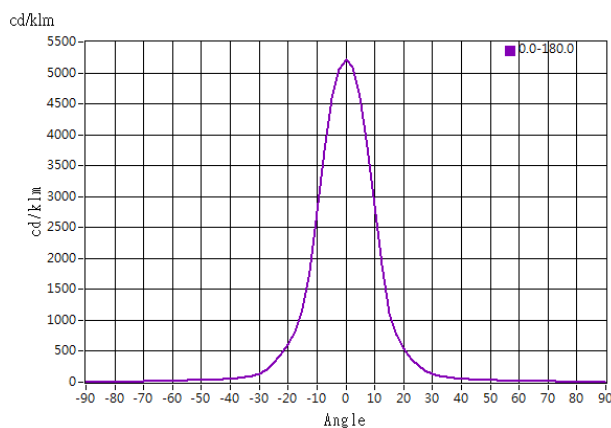
Philips	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
Fortimo SLM 1203 L09 G6	Φ9	21°	41°
Fortimo SLM 1203 L09 G6_DL	Φ9	22°	44°
Fortimo SLM 1203 L09 G6_PI	Φ9	22°	44°
Fortimo SLM PW 1204 L09 G7	Φ9	21°	43°
Fortimo SLM 1201 L09 G7N	Φ9.8	21°	43°
Fortimo SLM 1202 L09 G7N	Φ9.8	22°	45°
Fortimo SLM 1203 L09 G7N	Φ9.8	21°	44°
Fortimo SLM 1204 L09 G7N	Φ9.8	21°	43°
Fortimo SLM 1205 L13 G7	Φ13	26°	53°
Fortimo SLM PW 1205 L13 G6	Φ13	25°	51°
Fortimo SLM PW 1205 L13 G6_DL	Φ13	25°	52°
Fortimo SLM PW 1205 L13 G6_PI	Φ13	25°	52°
Fortimo SLM 1205 L15 G7N	Φ14.5	27°	55°
Fortimo SLM 1206 L15 G7N	Φ14.5	27°	56°
Fortimo SLM 1208 L15 G7N	Φ14.5	27°	55°
Fortimo SLM 1208 L15 G7	Φ15	27°	56°
Fortimo SLM 1208 L15 G6	Φ15	27°	55°
Fortimo SLM 1208 L15 G6_DL	Φ15	28°	55°
Fortimo SLM 1208 L15 G6_PI	Φ15	28°	55°



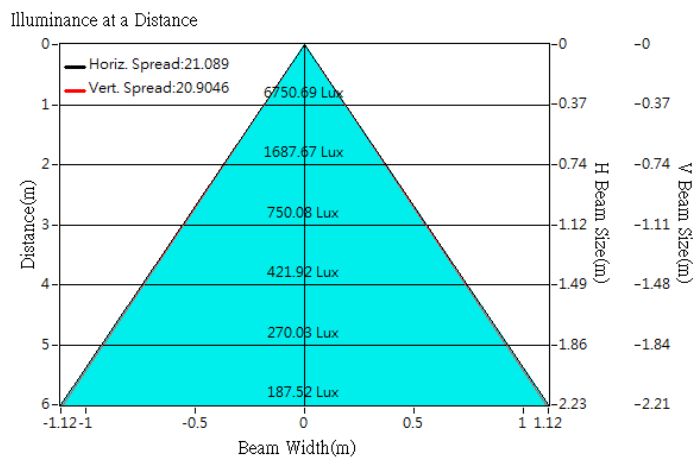
Optical Characteristics

Model Number	CKO-CH15-060027-4303		"H" definition 
LED	Fortimo SLM 1203 L09 G6		
LES / LED Size	Φ 9 mm		
FWHM (D50)	21°		
Field Angle (D10)	41°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1297 lm	Measured @ 10.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

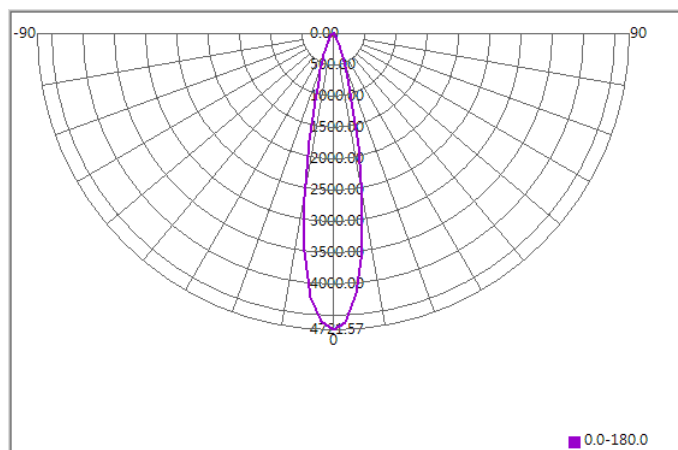




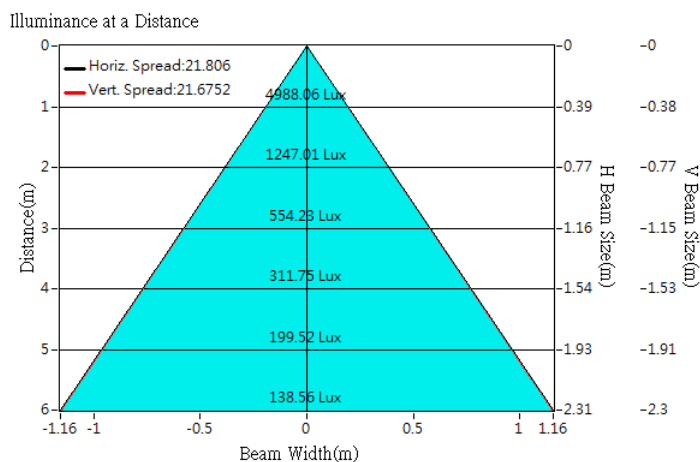
Optical Characteristics

Model Number	CKO-CH15-060027-4303		
LED	Fortimo SLM 1203 L09 G6_DL		
LES / LED Size	Φ 9 mm		
FWHM (D50)	22°		
Field Angle (D10)	44°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1056 lm	Measured @ 10.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

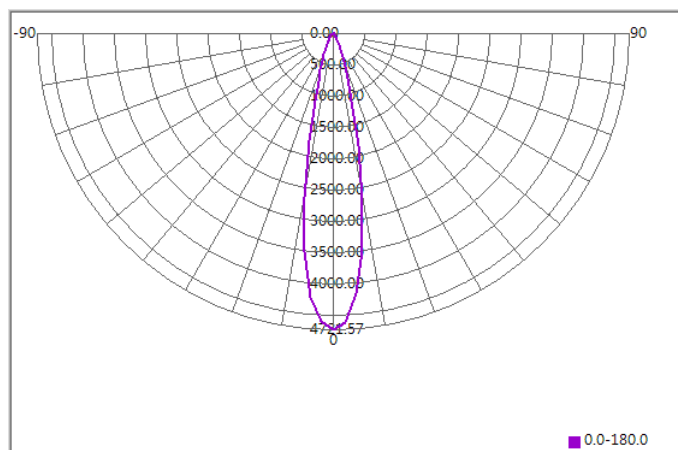




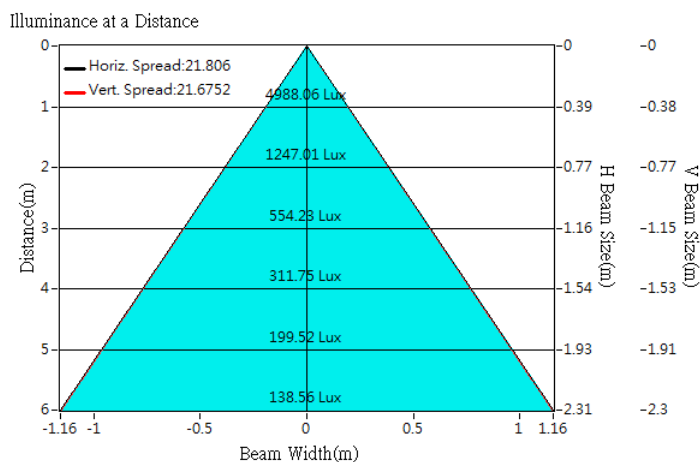
Optical Characteristics

Model Number	CKO-CH15-060027-4303		
LED	Fortimo SLM 1203 L09 G6_PI		
LES / LED Size	Φ 9 mm		
FWHM (D50)	22°		
Field Angle (D10)	44°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1056 lm	Measured @ 10.5 W	
Material	PC / UL94V2		

cd/klm

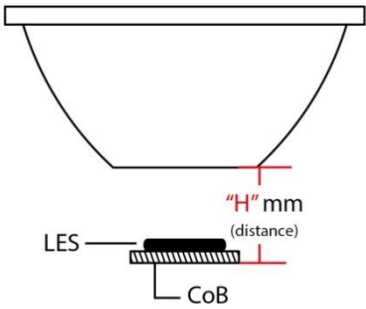


Illuminance At Distances

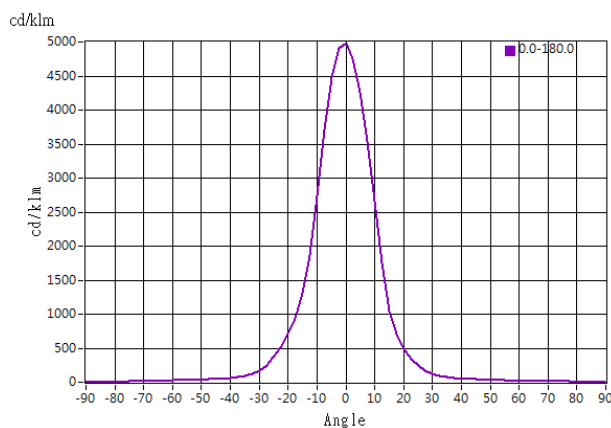




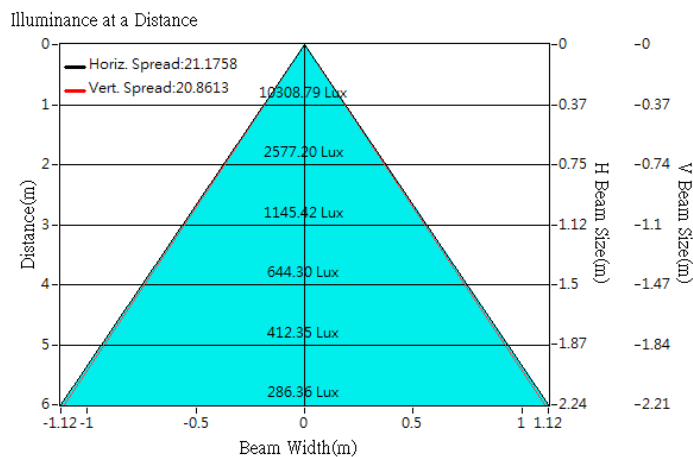
Optical Characteristics

Model Number	CKO-CH15-060027-4303		
LED	Fortimo SLM PW 1204 L09 G7		
LES / LED Size	Φ 9 mm		
FWHM (D50)	21°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2070 lm	Measured @ 21.6 W	
Material	PC / UL94V2		

cd/klm

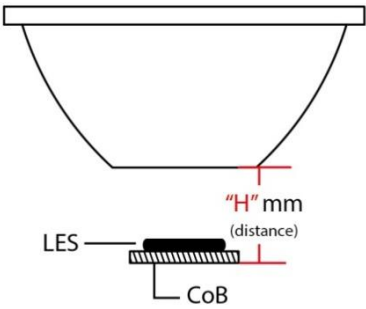


Illuminance At Distances

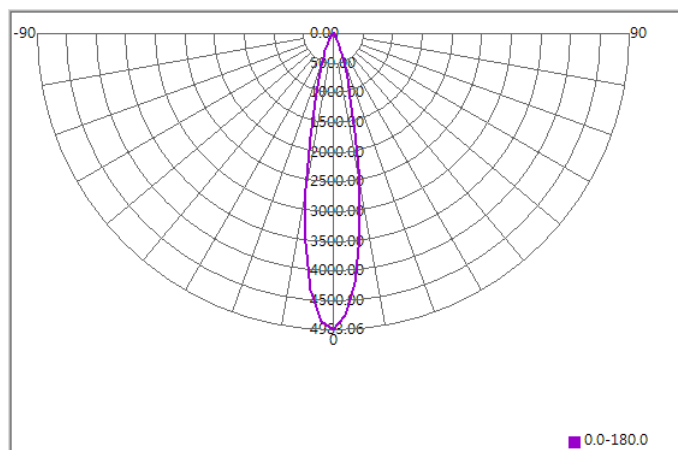




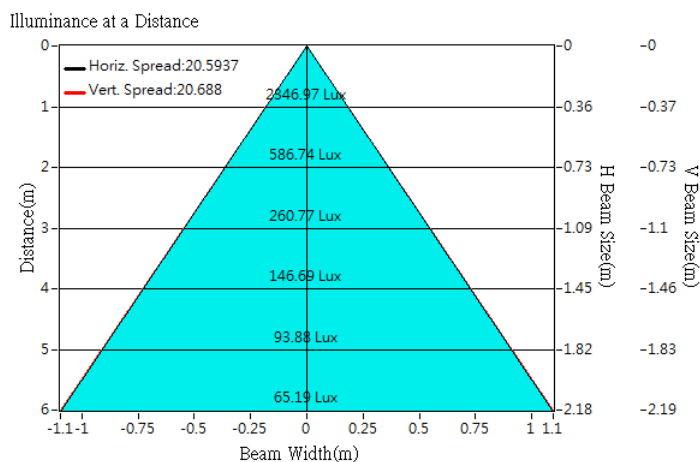
Optical Characteristics

Model Number	CKO-CH15-060027-4303		
LED	Fortimo SLM 1201 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	470 lm	Measured @ 3.09 W	
Material	PC / UL94V2		

cd/klm

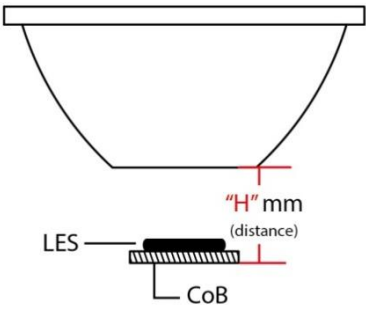


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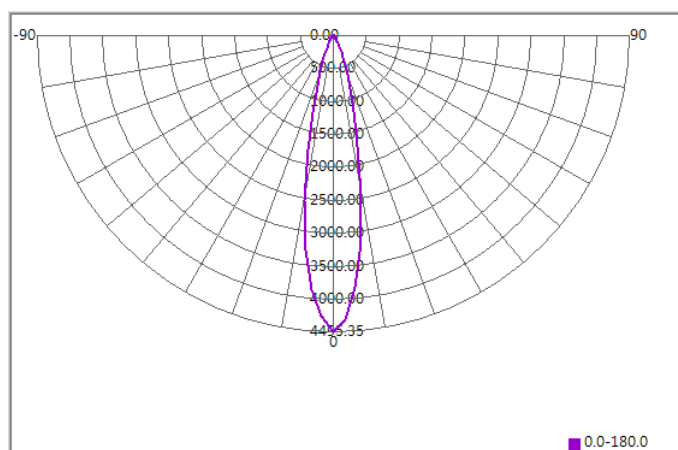




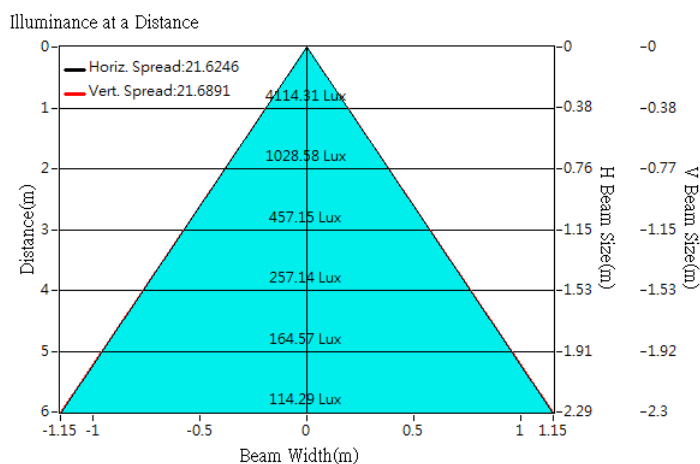
Optical Characteristics

Model Number	CKO-CH15-060027-4303		"H" definition 
LED	Fortimo SLM 1202 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	22°		
Field Angle (D10)	45°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	915 lm	Measured @ 6.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

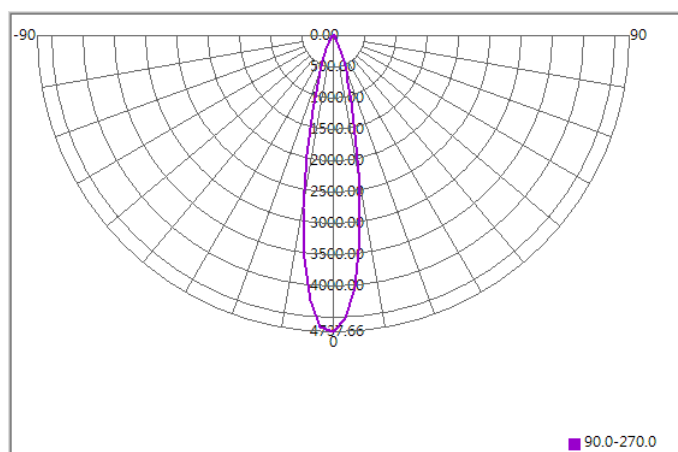




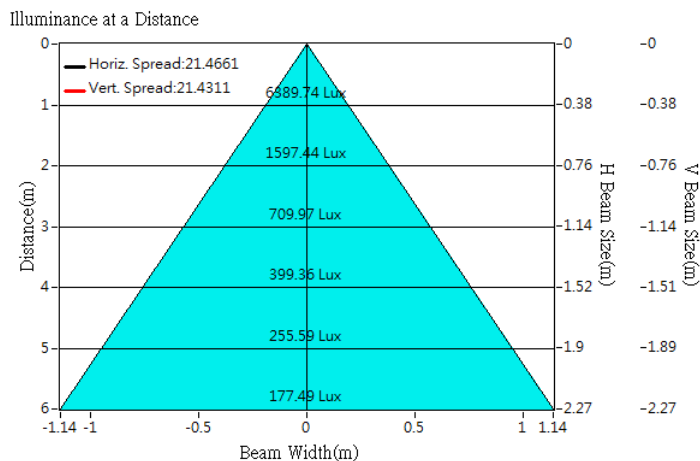
Optical Characteristics

Model Number	CKO-CH15-060027-4303		"H" definition
LED	Fortimo SLM 1203 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	44°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1348 lm	Measured @ 9.2 W	
Material	PC / UL94V2		

cd/klm

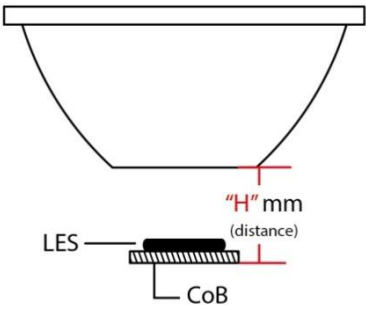


Illuminance At Distances

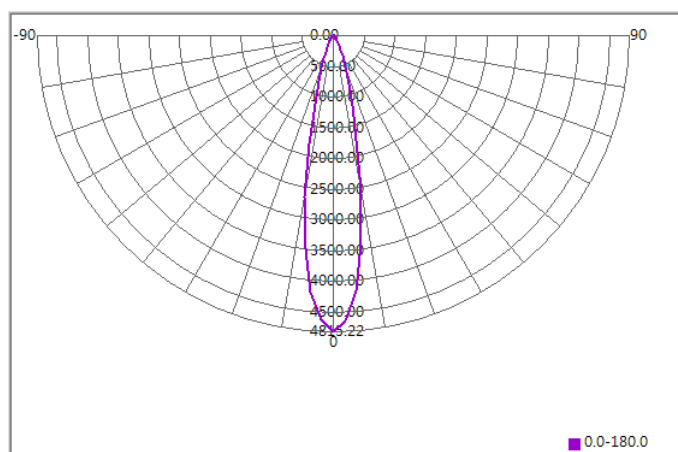




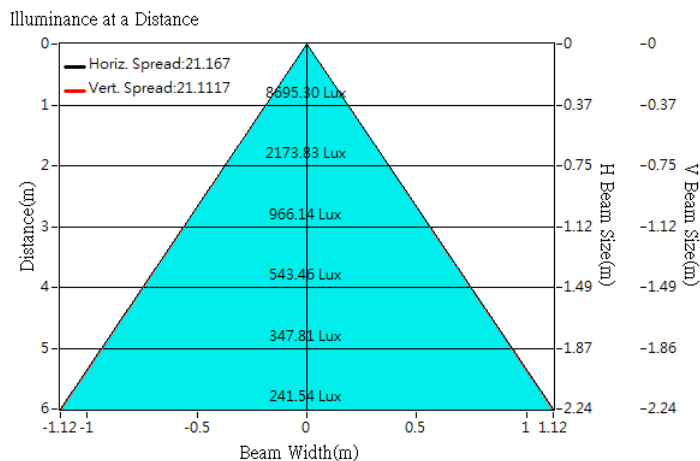
Optical Characteristics

Model Number	CKO-CH15-060027-4303		"H" definition 
LED	Fortimo SLM 1204 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1805 lm	Measured @ 12.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

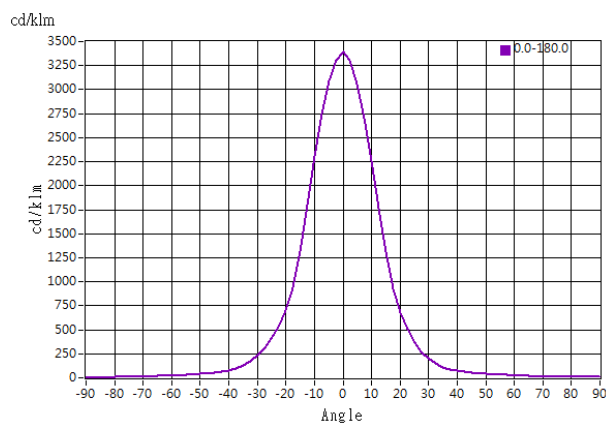




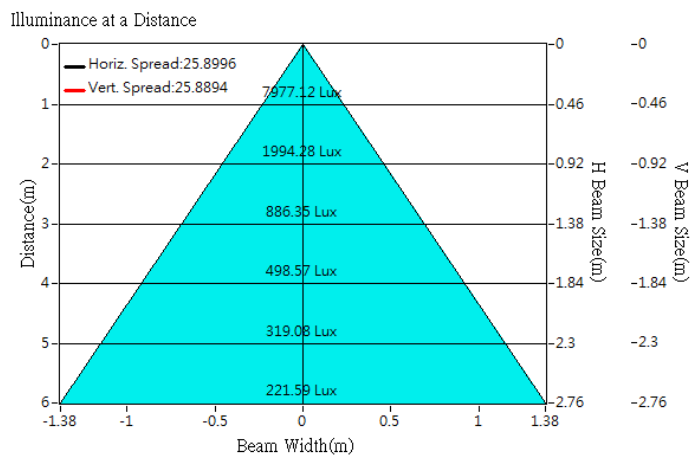
Optical Characteristics

Model Number	CKO-CH15-060027-4303		"H" definition
LED	Fortimo SLM 1205 L13 G7		
LES / LED Size	Φ 13 mm		
FWHM (D50)	26°		
Field Angle (D10)	53°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2354 lm	Measured @ 17.6 W	
Material	PC / UL94V2		

cd/klm

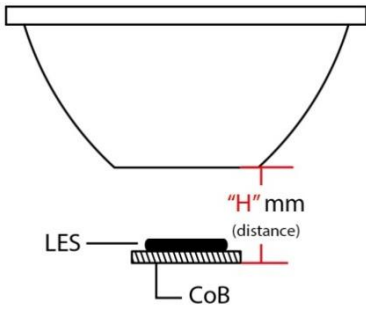


Illuminance At Distances

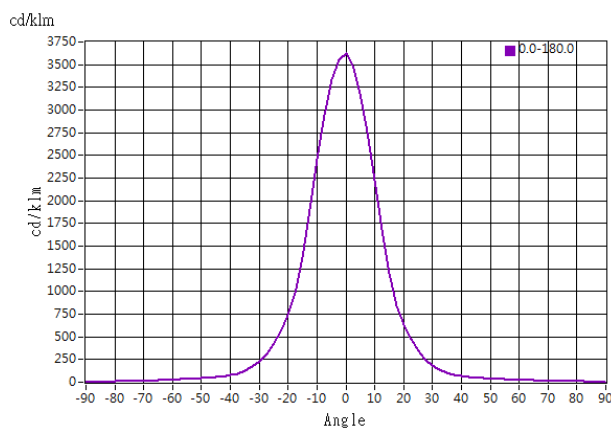




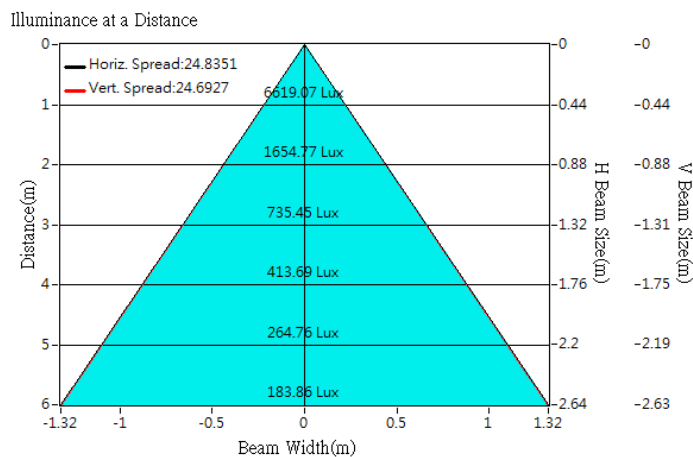
Optical Characteristics

Model Number	CKO-CH15-060027-4303		“H” definition 
LED	Fortimo SLM 1205 L13 G6		
LES / LED Size	Φ 13 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1826 lm	Measured @ 13.6 W	
Material	PC / UL94V2		

cd/klm

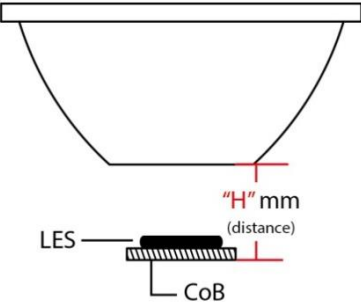


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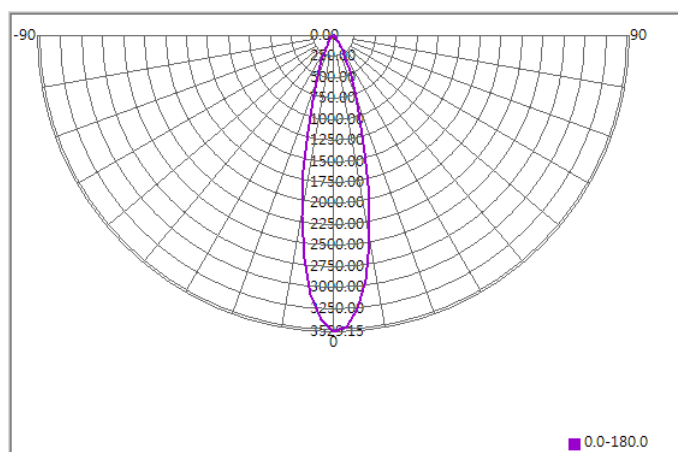




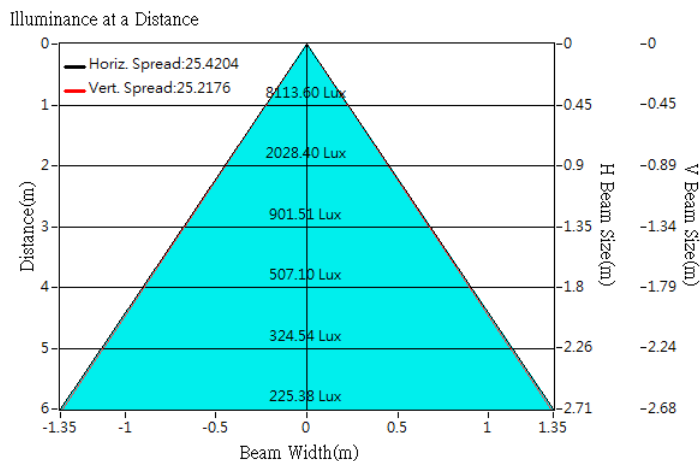
Optical Characteristics

Model Number		CKO-CH15-060027-4303	"H" definition 
LED		Fortimo SLM PW 1205 L13 G6_DL	
LES / LED Size		Φ 13 mm	
FWHM (D50)		25°	
Field Angle (D10)		52°	
H (distance)		3.5mm	
Dimension		Φ =60 mm, Thickness=26.85 mm	
Luminous Flux		2299 lm Measured @ 17.3 W	
Material		PC / UL94V2	

cd/klm

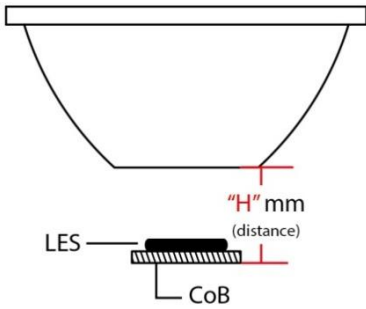


Illuminance At Distances

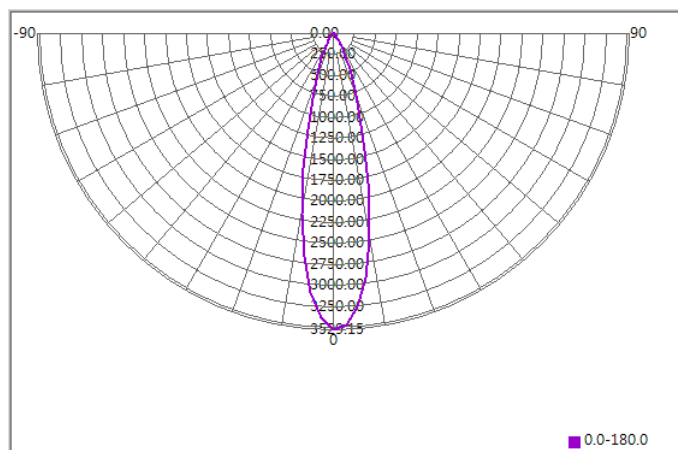




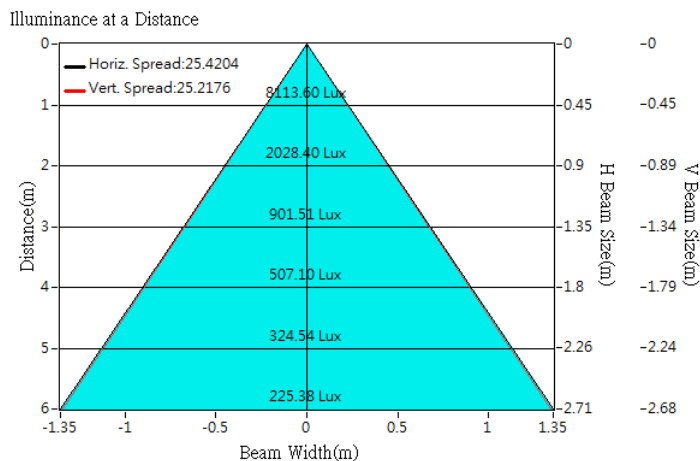
Optical Characteristics

Model Number	CKO-CH15-060027-4303		
LED	Fortimo SLM PW 1205 L13 G6_PI		
LES / LED Size	Φ 13 mm		
FWHM (D50)	25°		
Field Angle (D10)	52°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2299 lm	Measured @ 17.3 W	
Material	PC / UL94V2		

cd/klm

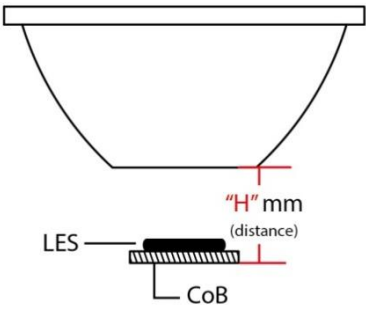


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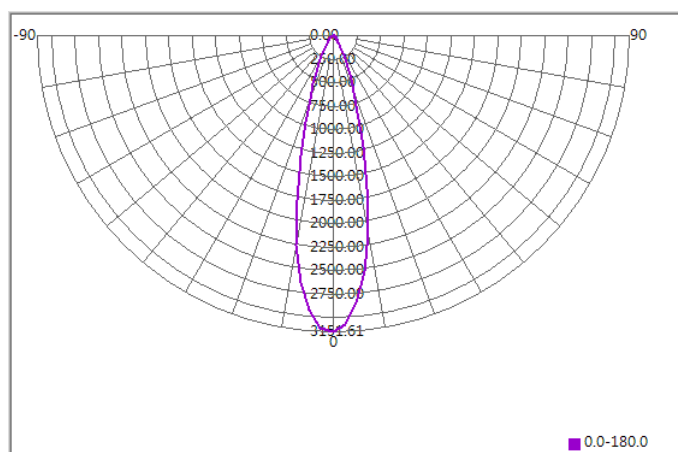




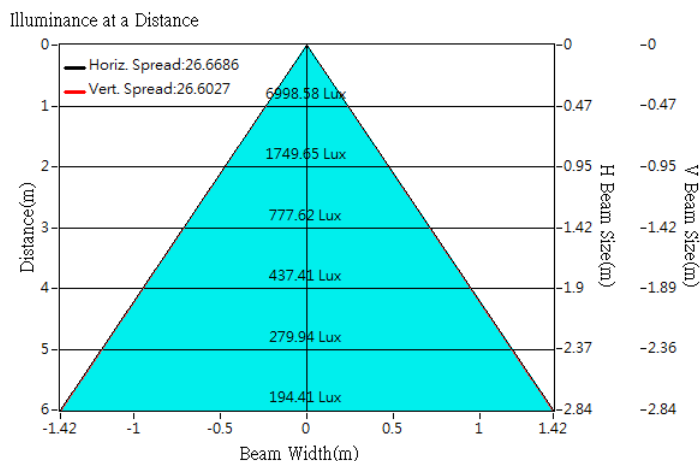
Optical Characteristics

Model Number	CKO-CH15-060027-4303		
LED	Fortimo SLM 1205 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	27°		
Field Angle (D10)	55°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2220 lm	Measured @ 15.4 W	
Material	PC / UL94V2		

cd/klm

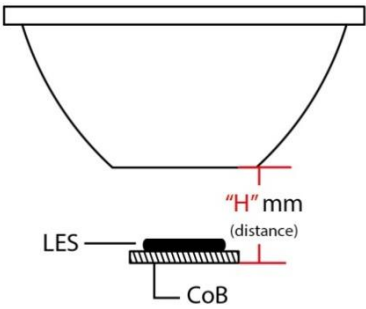


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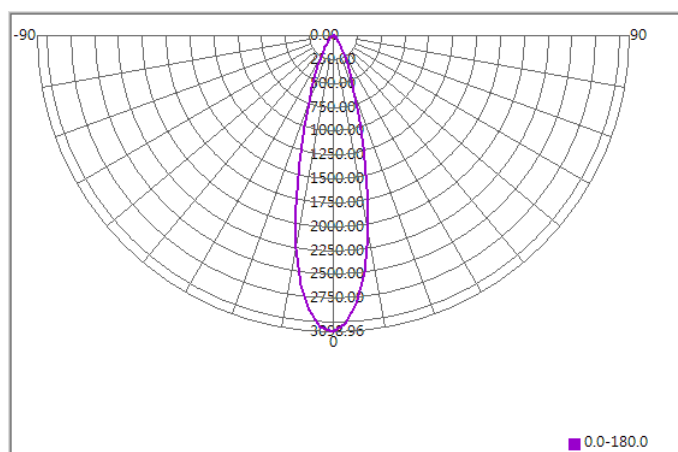




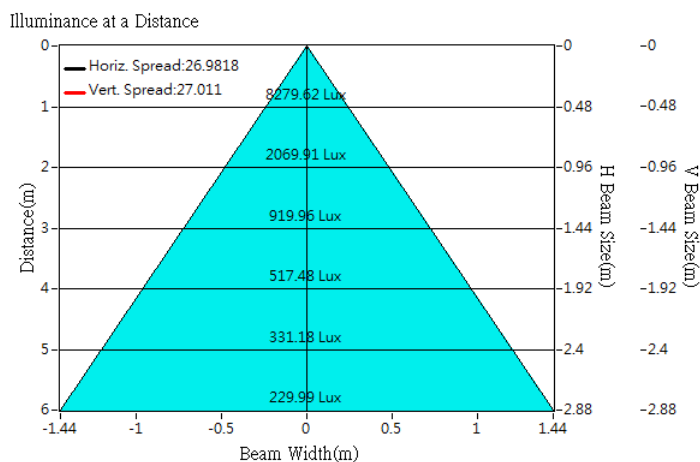
Optical Characteristics

Model Number	CKO-CH15-060027-4303		"H" definition 
LED	Fortimo SLM 1206 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	27°		
Field Angle (D10)	56°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2671 lm	Measured @ 18.5 W	
Material	PC / UL94V2		

cd/klm

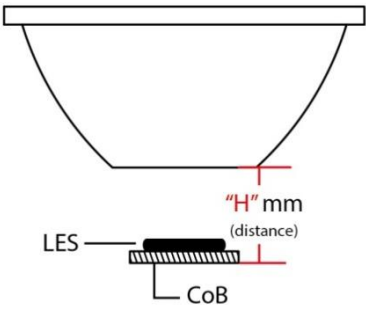


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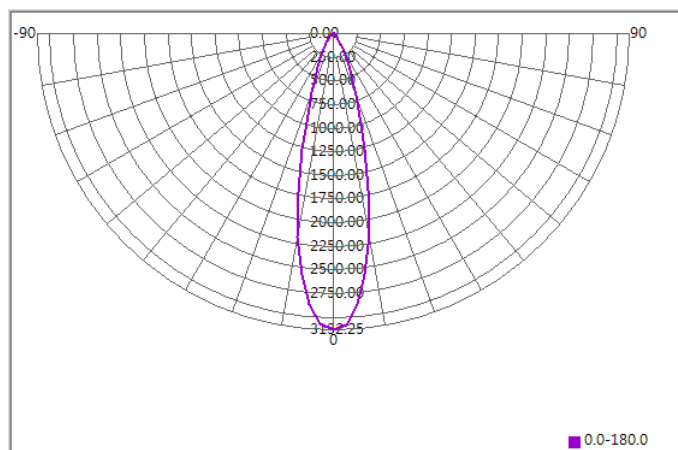




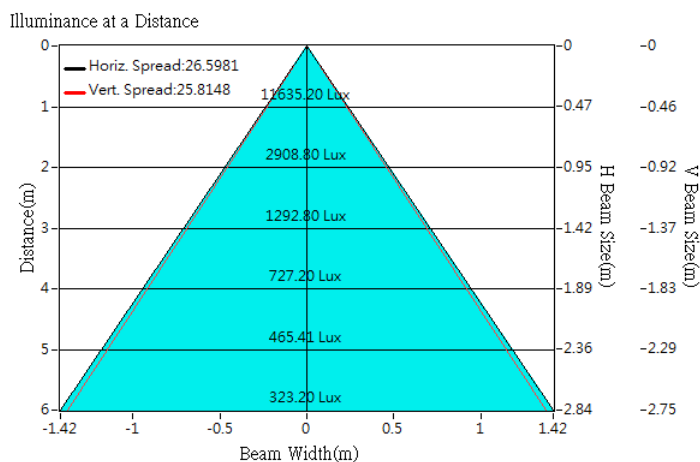
Optical Characteristics

Model Number	CKO-CH15-060027-4303		"H" definition 
LED	Fortimo SLM 1208 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	27°		
Field Angle (D10)	55°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	3714 lm	Measured @ 24.7 W	
Material	PC / UL94V2		

cd/klm

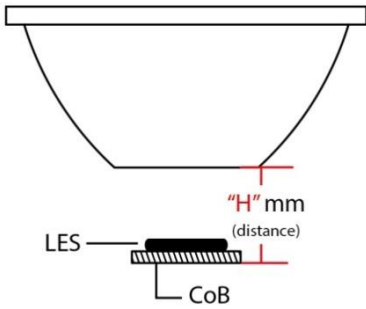


Illuminance At Distances

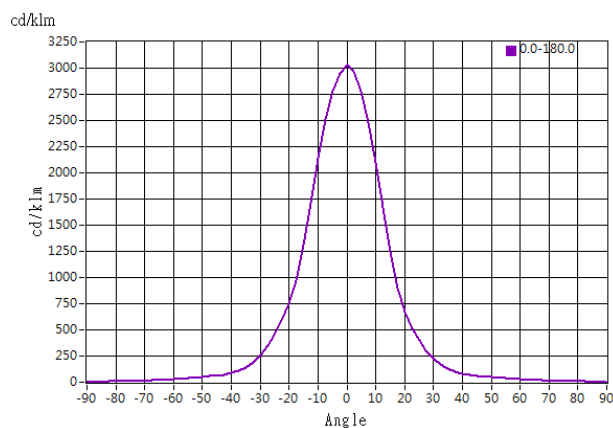




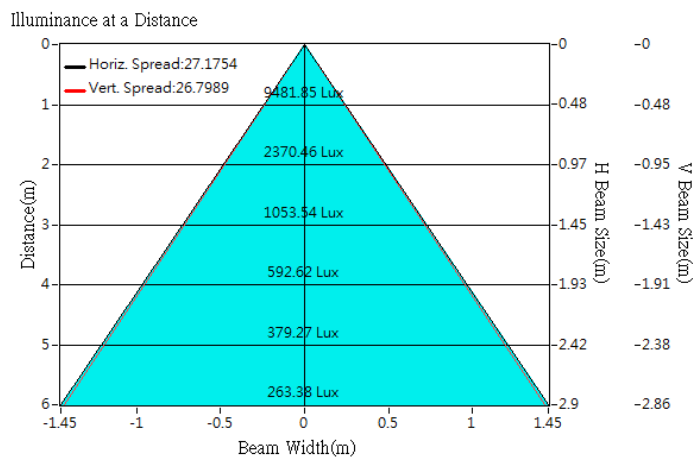
Optical Characteristics

Model Number	CKO-CH15-060027-4303		"H" definition 
LED	Fortimo SLM 1208 L15 G7		
LES / LED Size	Φ 15 mm		
FWHM (D50)	27°		
Field Angle (D10)	56°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	3133 lm	Measured @ 25.9 W	
Material	PC / UL94V2		

cd/klm

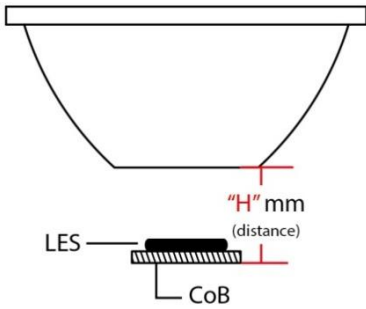


Illuminance At Distances

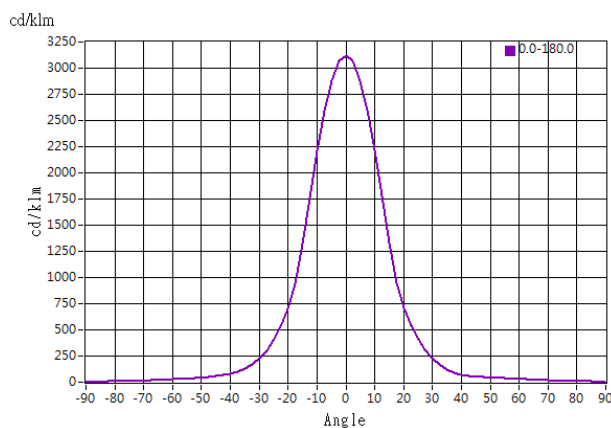




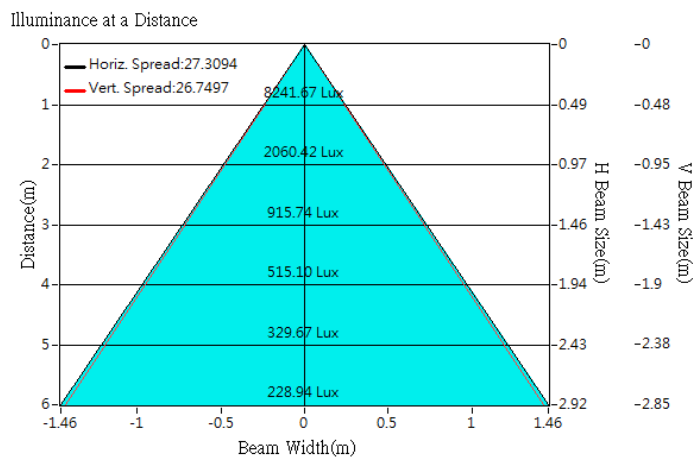
Optical Characteristics

Model Number	CKO-CH15-060027-4303		
LED	Fortimo SLM 1208 L15 G6		
LES / LED Size	Φ 15 mm		
FWHM (D50)	27°		
Field Angle (D10)	55°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2638 lm	Measured @ 26.8 W	
Material	PC / UL94V2		

cd/klm

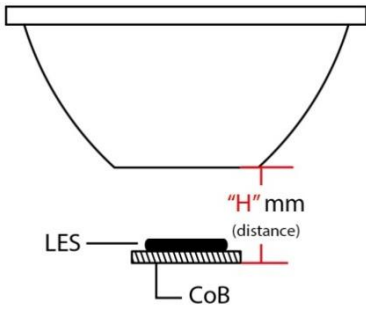


Illuminance At Distances

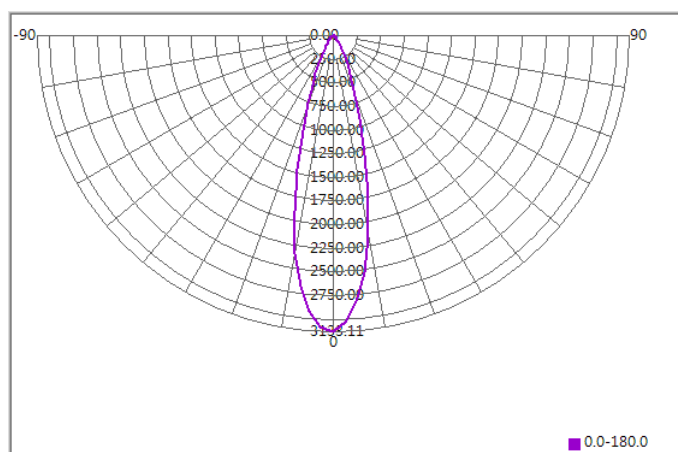




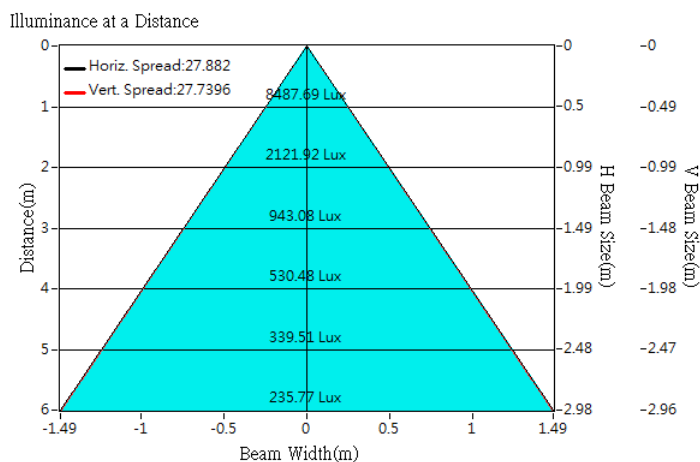
Optical Characteristics

Model Number	CKO-CH15-060027-4303		
LED	Fortimo SLM 1208 L15 G6_DL		
LES / LED Size	Φ 15 mm		
FWHM (D50)	28°		
Field Angle (D10)	55°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2709 lm	Measured @ 26.8 W	
Material	PC / UL94V2		

cd/klm

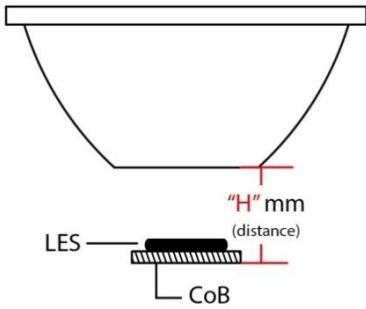


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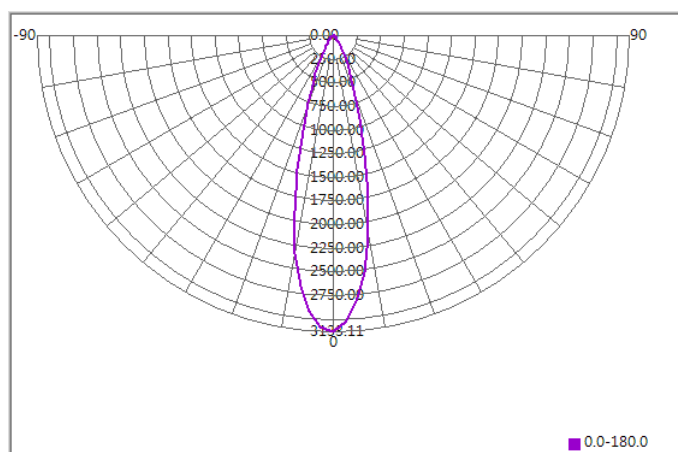




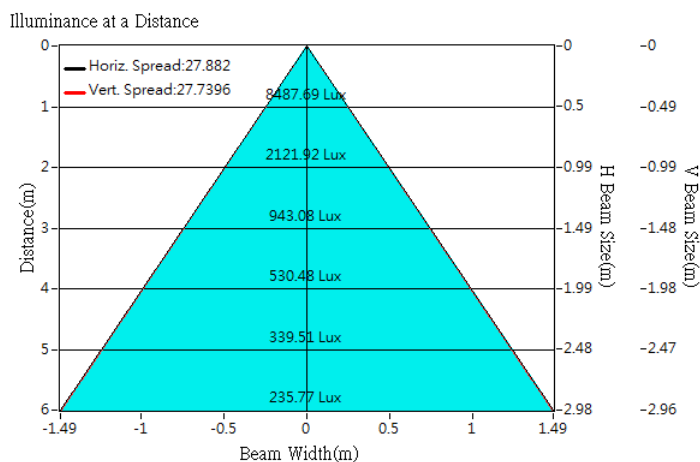
Optical Characteristics

Model Number	CKO-CH15-060027-4303		
LED	Fortimo SLM 1208 L15 G6_PI		
LES / LED Size	Φ 15 mm		
FWHM (D50)	28°		
Field Angle (D10)	55°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2709 lm	Measured @ 26.8 W	
Material	PC / UL94V2		

cd/klm

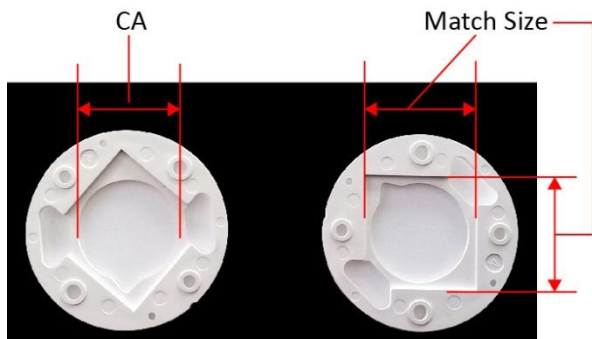


Illuminance At Distances





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