

Compatibility Matrix Datasheet

GAGGIONE
LLC22N



Ø 16 mm narrow beam PMMA collimator.

COMPATIBILITY MATRIX

Measured results in black

[Simulated results in blue](#)

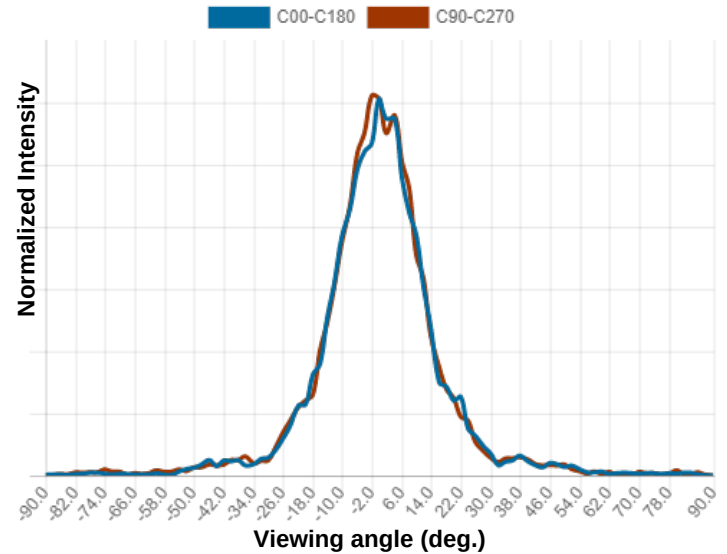
LED Manufacturer	LED Reference	FWHM 1	FWHM 2	FWTM 1	FWTM 2	Efficacy 1	Efficacy 2	CCI
BRIDGELUX	V4_HD BXRH_30G0600_A_72	27.6		53.1		3.0		
CITIZEN	CLU7L3	17.0		35.2		5.2		5.0
CITIZEN	CLU7B2	21.4		47.4		5.0		
CITIZEN	CLU7S3	21.6		50.8		3.0		3.1
CITIZEN	CLU7A2	24.1		52.4		2.9		
CITIZEN	CLU7R3	27.3		57.1		2.3		
CREE	XQ-E HI	9.6		18.9		18.7		
CREE	XP-P	9.9		18.2		21.6		0.7
CREE	XP-E2	12.2		24.1		12.0		
CREE	XD16	13.2		24.5		10.1		
CREE	XP-L HI	15.2		27.9		8.4		
CREE	XP-G2	15.6		28.0		8.3		
CREE	XPL-HI_post_PCN5155	16.7		31.8		5.9		4.9
CREE	XP-G2 HE	19.1		35.7		5.3		1.8
LUMILEDS	REBEL	11.9		19.2		20.2		
LUMILEDS	REBEL ES	16.3		26.6		10.9		
LUMILEDS	LUXEON_CX_PLUS_CoB_HDS01H04	25.4		55.0		2.5		
LUMINUS	SST_20_WxH	13.2		21.6		15.3		
LUMINUS	SST_20_WxS	13.6		22.6		13.7		
LUMINUS	SFT-40	15.7		27.8		8.4		1.0
LUMINUS	CXM_3	21.3		46.3		4.8		
LUMINUS	CXM_4	24.7		54.6		2.5		
NICHIA	NFSWE11A	7.3		13.2		44.4		
NICHIA	NCSWE17AT	11.2		21.7		14.9		
NICHIA	NVSWE21AT	14.2		30.2		7.7		4.0
NICHIA	NVSW219F_V1	16.7		33.8		8.0		
NICHIA	NVSW519A	21.0		41.3		5.1		
OSRAM	OSLON COMPACT CM LUW CEUN.CE	7.6		14.9		30.2		3.2
OSRAM	OSLON PURE 1010 GW VJLPE1 EM	8.6		16.4		23.0		
OSRAM	OSLON BLACK FLAT LUW HWQP	9.4		17.7		23.5		
OSRAM	OSLON COMPACT CL LUW CEUP	9.8		19.2		19.1		
OSRAM	OSLON SQUARE FLAT KW CSLPM2.PC	11.9		23.6		11.9		
OSRAM	OSLON Boost HX KW CULPM1.TG	12.2		22.4		13.9		
OSRAM	OSCONIQ C 2424 GW PLLRA1.EM	13.2		26.4		9.5		
OSRAM	OSCONIQ P3737 GW PUSRA1.EM	15.2		28.4		8.4		

LED Manufacturer	LED Reference	FWHM 1	FWHM 2	FWTM 1	FWTM 2	Efficacy 1	Efficacy 2	CCI
OSRAM	OSLON SQUARE GW CSSRM2.PM	15.5		29.0		7.9		
OSRAM	OSLON SQUARE GW CSSRMU.CM	15.9		28.5		8.3		
OSRAM	OSCONIQ P3737 GW PULTA1.CM	16.5		32.2		6.9		
OSRAM	OSCONIQ P 3737 GW PULTA1.CM	16.5		32.2		6.9		
OSRAM	OSLON SQUARE GW CSSRM3.PM	17.4		31.4		6.8		1.0
OSRAM	OSCONIQ P3737 GW PUSTA1.PM	20.9		42.9		4.0		
SEOUL	STW8C12C_E0	11.3		24.9		14.4		
SEOUL	Z5M4	18.4		32.7		7.5		

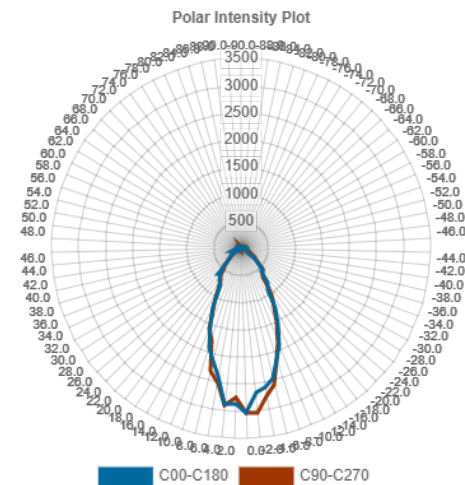
LLC22N with BRIDGELUX V4_HD BXRH_30G0600_A_72

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
27.6		53.1		3.0	



A length	B height	C foot
	8.2(mm)	16.0(mm)



LDT file



IES file



2D Schematics



3D Schematics

LLC22N with CITIZEN CLU7L3

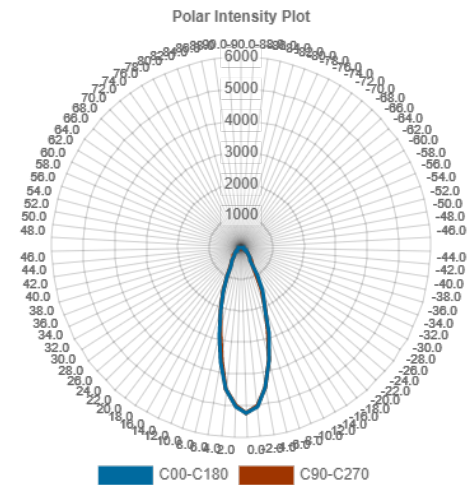
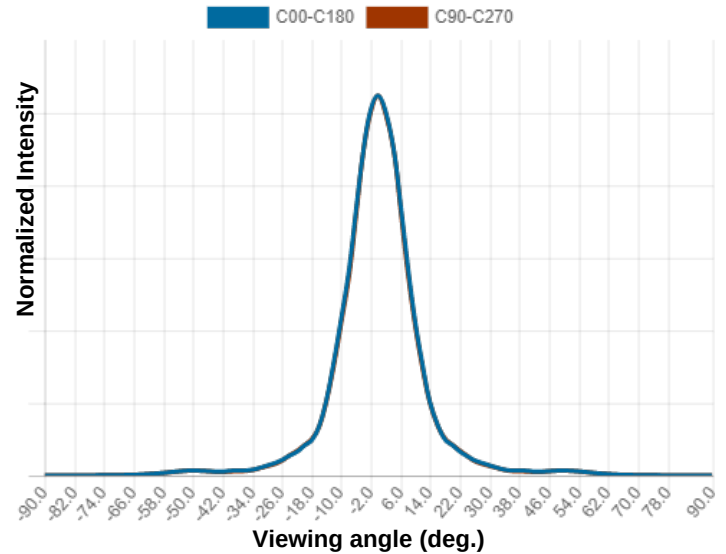
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
17.0		35.2		5.2	

CITIZEN



A length	B height	C foot
	8.2(mm)	16.0(mm)



LDT file



IES file



2D Schematics



3D Schematics

LLC22N with CITIZEN CLU7B2

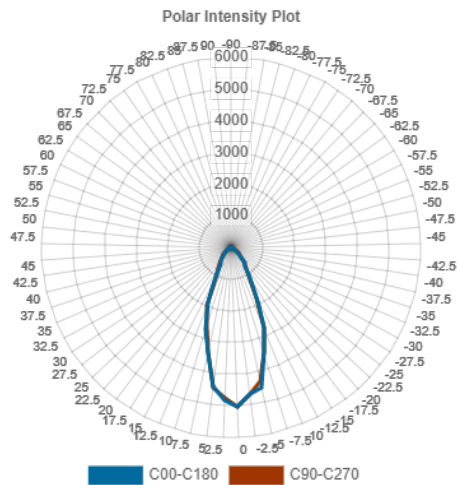
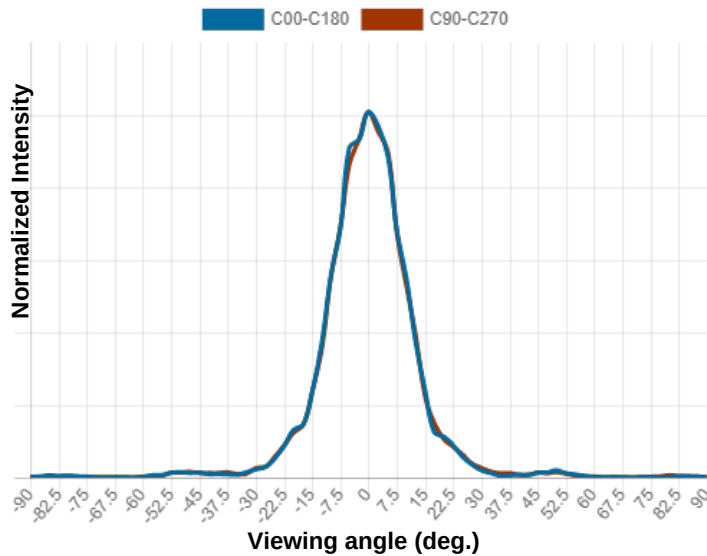
Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
21.4		47.4		5.0	

CITIZEN



A length	B height	C foot
	8.2(mm)	16.0(mm)



LDT file



IES file



2D Schematics



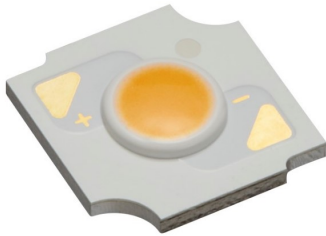
3D Schematics

LLC22N with CITIZEN CLU7S3

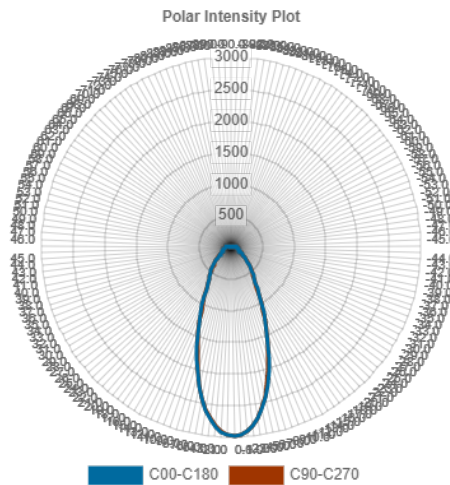
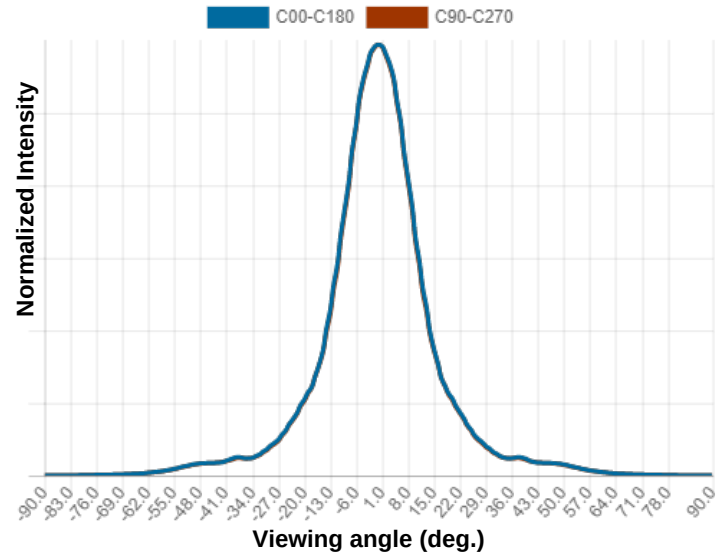
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
21.6		50.8		3.0	

CITIZEN



A length	B height	C foot
	8.2(mm)	16.0(mm)



LDT file



IES file



2D Schematics



3D Schematics

LLC22N with CITIZEN CLU7A2

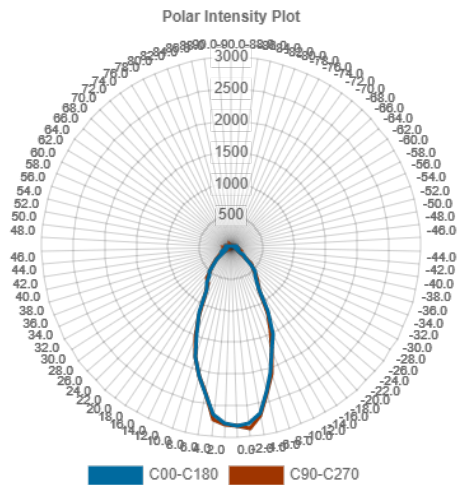
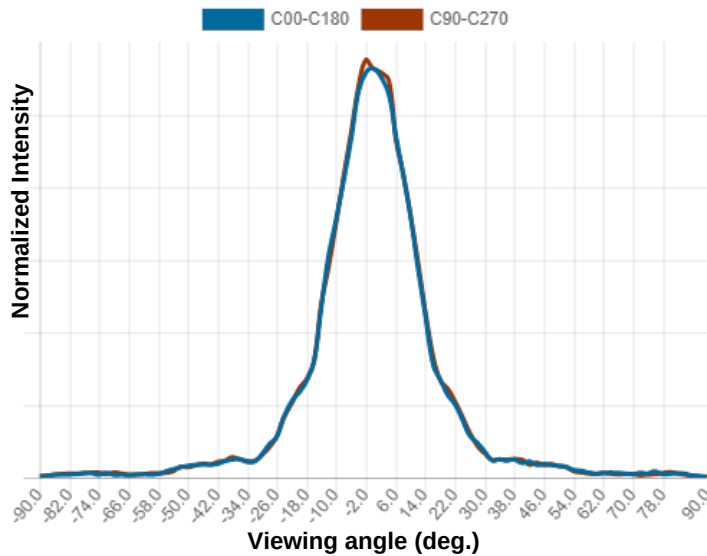
Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
24.1		52.4		2.9	

CITIZEN



A length	B height	C foot
	8.2(mm)	16.0(mm)



LDT file



IES file



2D Schematics



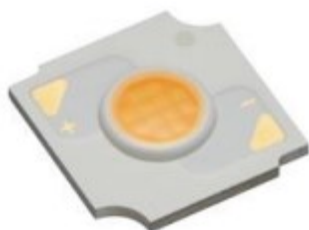
3D Schematics

LLC22N with CITIZEN CLU7R3

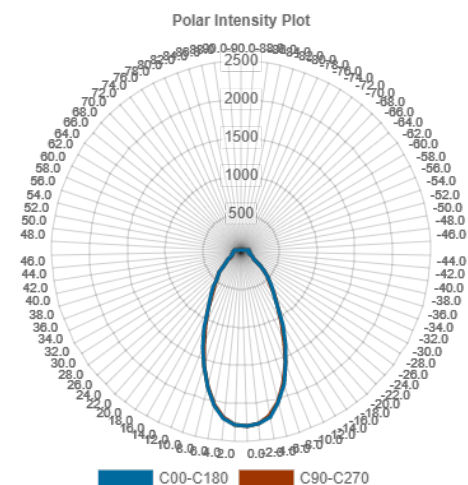
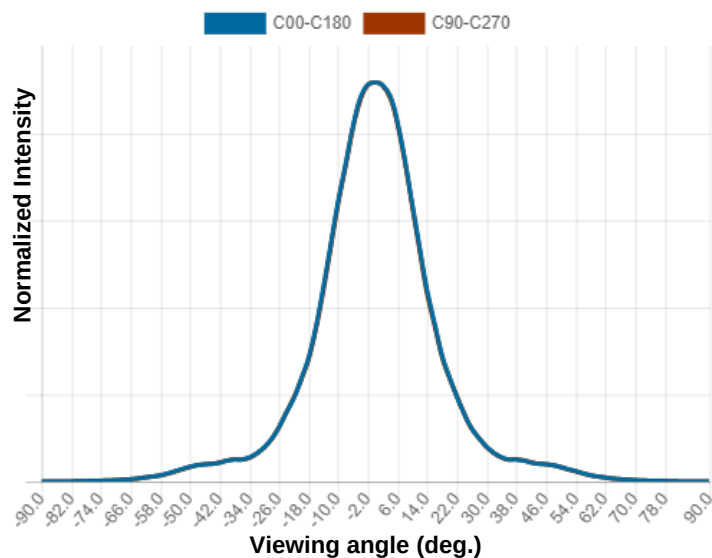
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
27.3		57.1		2.3	

CITIZEN



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01AAC00

LLH01AAC02

LLH01BBC00

LLH01BBC02



LDT file



IES file



2D Schematics



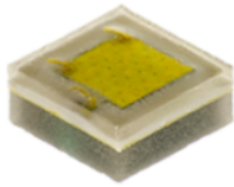
3D Schematics

LLC22N with CREE XQ-E HI

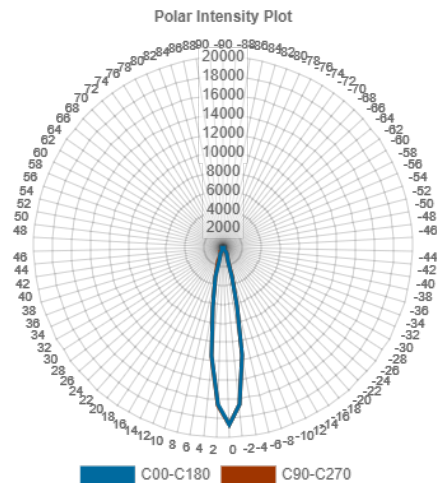
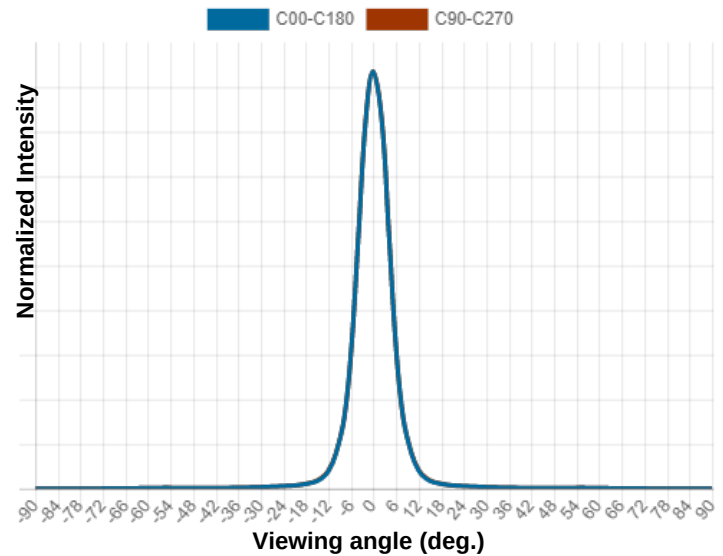
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
9.6		18.9		18.7	

CREE 



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics

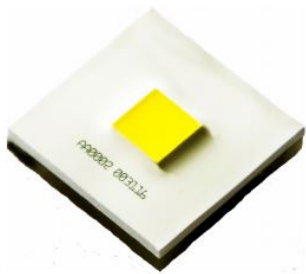


3D Schematics

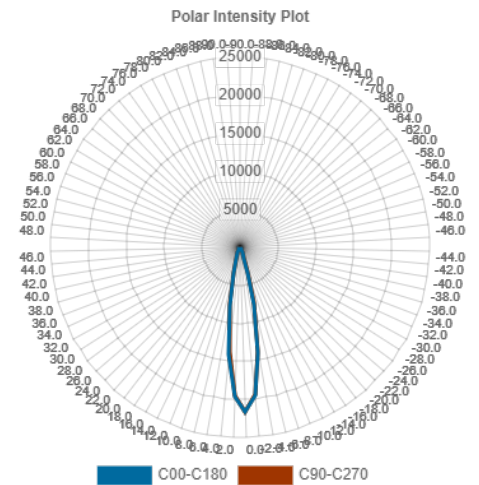
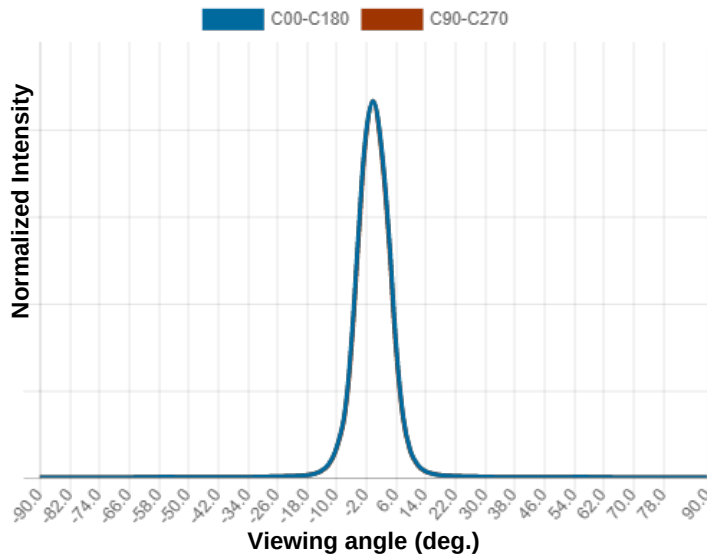
LLC22N with CREE XP-P

Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
9.9		18.2		21.6	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories									
LLH01BBC00	LLH01BBC02	LLH01BBA00	LLH01BBA02	LLH01AAC00	LLH01AAC02	LLH01AAA00	LLH01AAA02	LLH01BBC021	LLH01BBC022

LDT file

IES file

2D Schematics

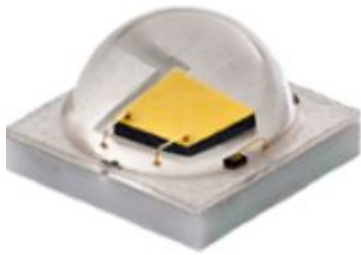
3D Schematics

LLC22N with CREE XP-E2

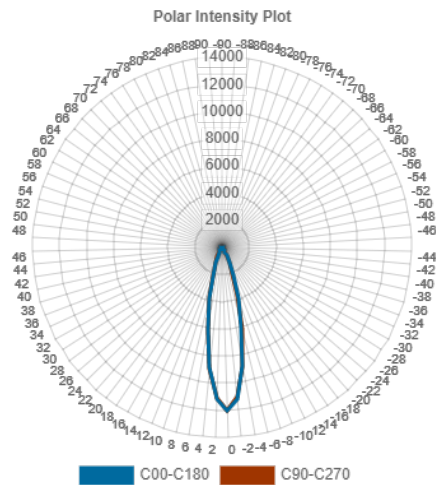
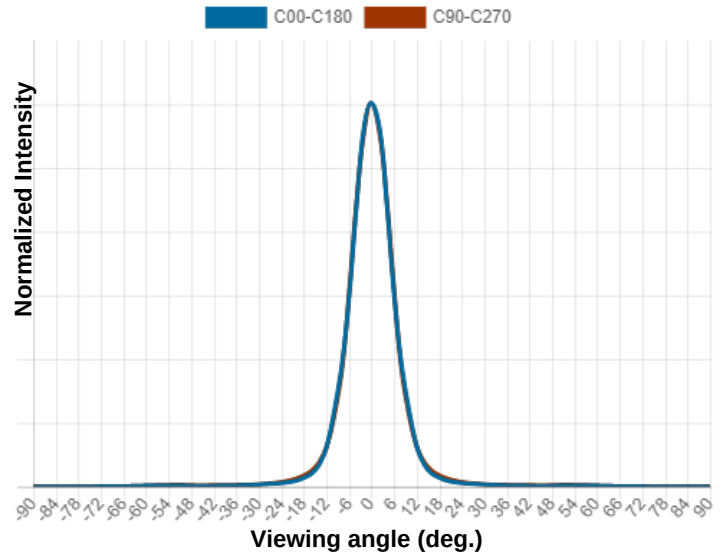
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
12.2		24.1		12.0	

CREE 



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



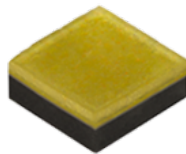
3D Schematics

LLC22N with CREE XD16

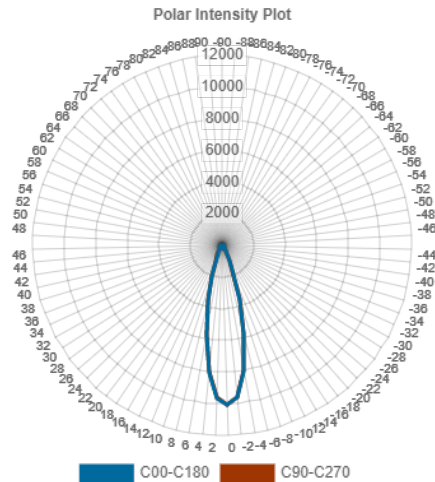
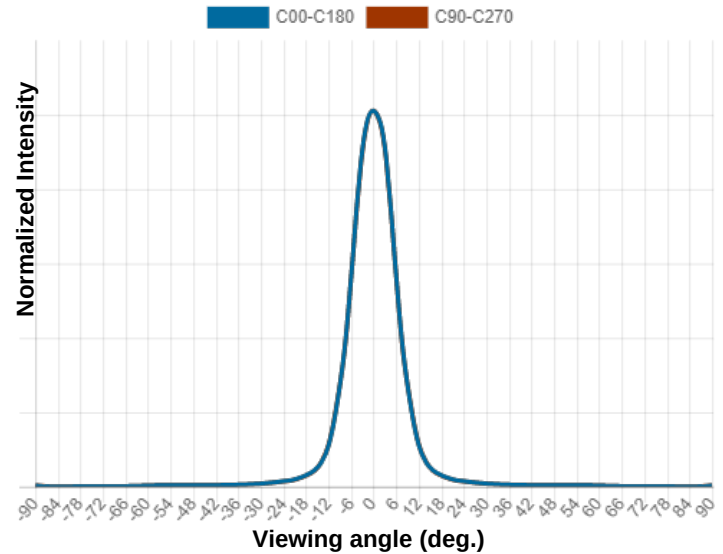
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
13.2		24.5		10.1	

CREE 



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories			
LLH01BBD00	LLH01BBD02	LLH01AAD00	LLH01AAD02



LDT file



IES file



2D Schematics

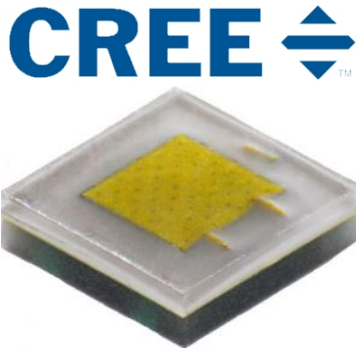


3D Schematics

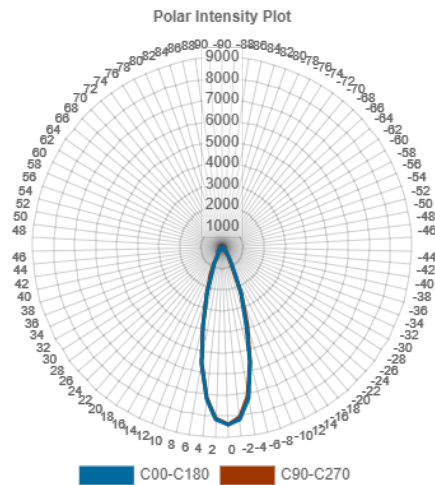
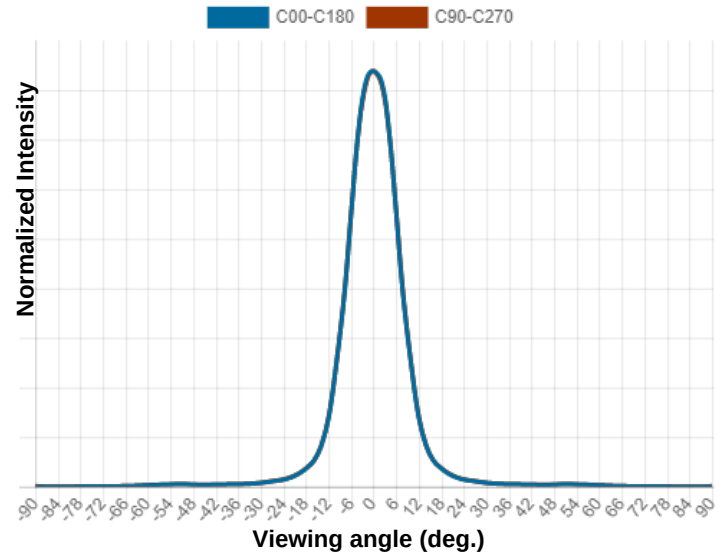
LLC22N with CREE XP-L HI

Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
15.2		27.9		8.4	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



3D Schematics

LLC22N with CREE XP-G2

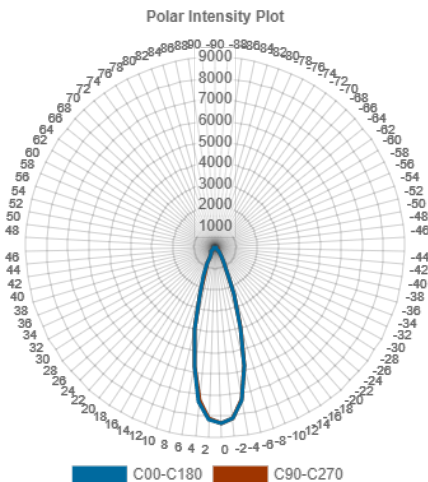
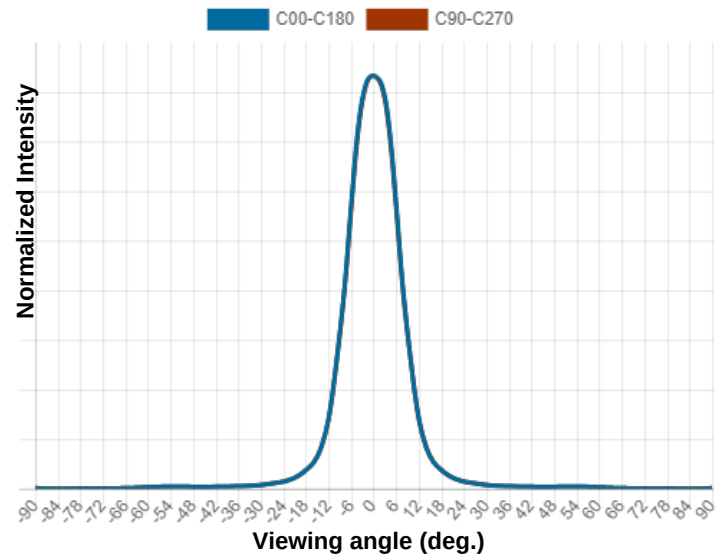
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
15.6		28.0		8.3	

CREE 



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



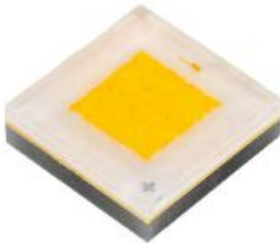
3D Schematics

LLC22N with CREE XPL-HI_post_PCN5155

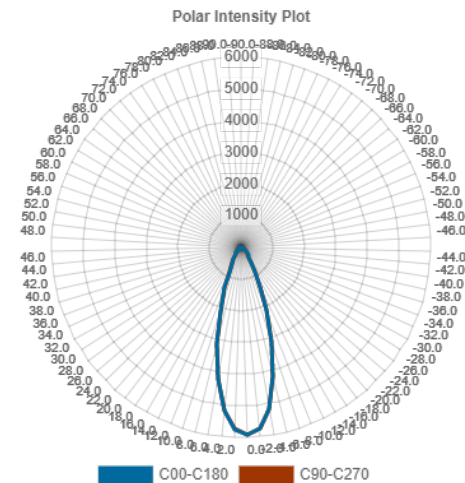
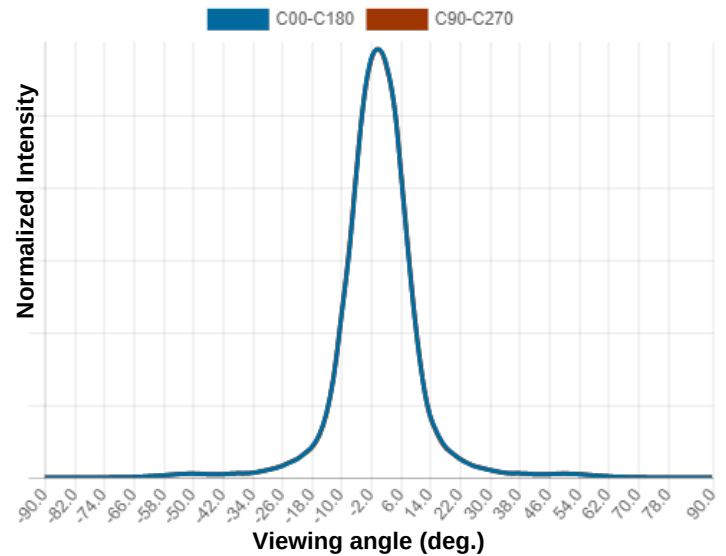
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
16.7		31.8		5.9	

CREE 



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



3D Schematics

LLC22N with CREE XP-G2 HE

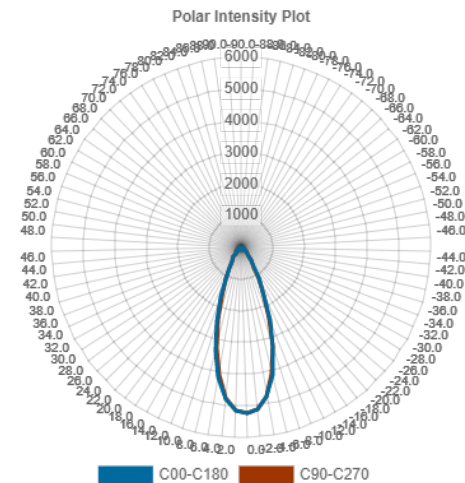
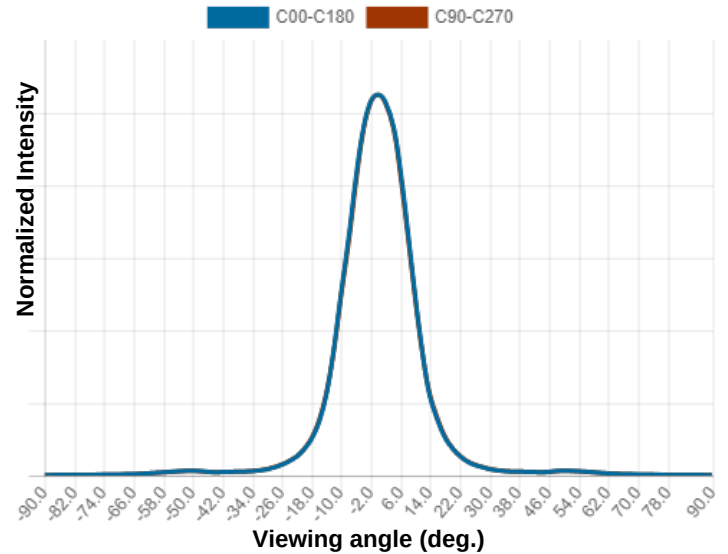
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
19.1		35.7		5.3	

CREE 



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics

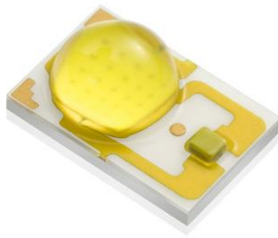


3D Schematics

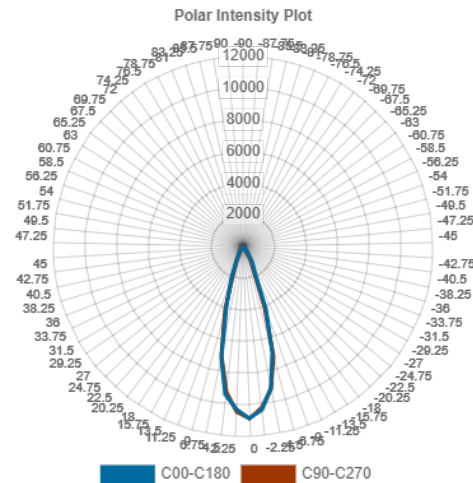
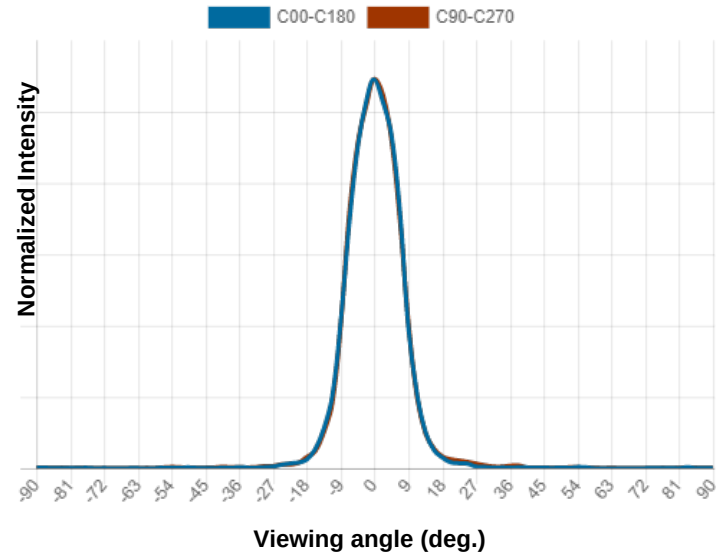
LLC22N with LUMILEDS REBEL

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
11.9		19.2		20.2	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics

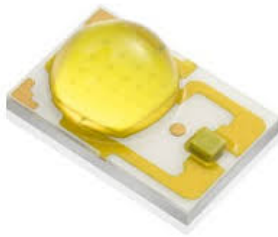


3D Schematics

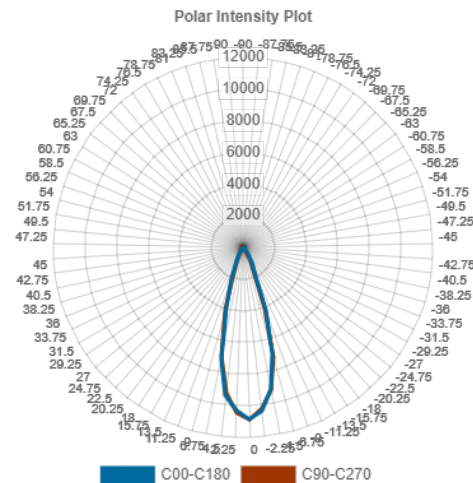
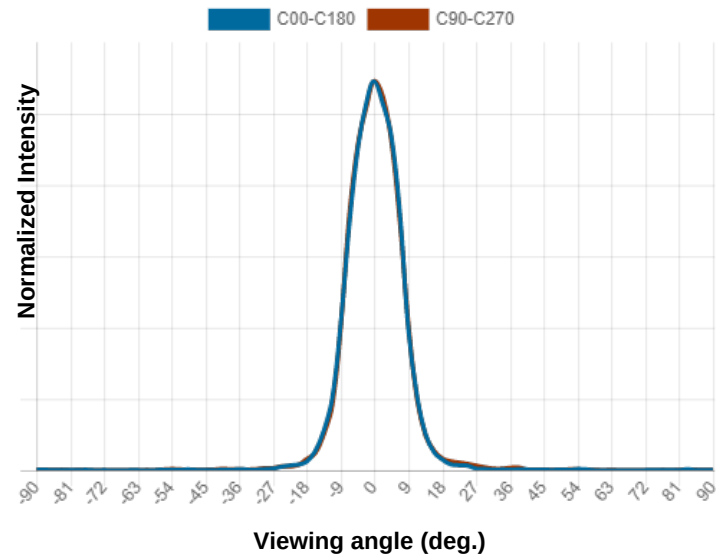
LLC22N with LUMILEDS REBEL ES

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
16.3		26.6		10.9	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



3D Schematics

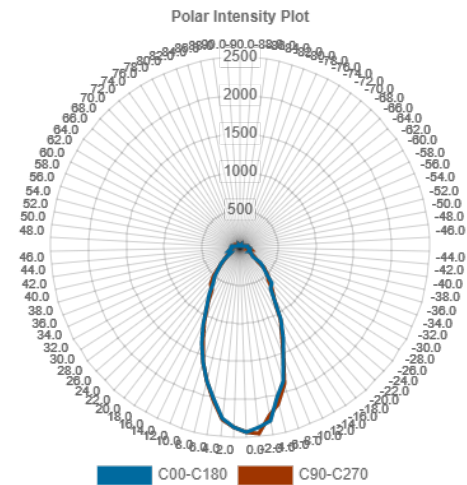
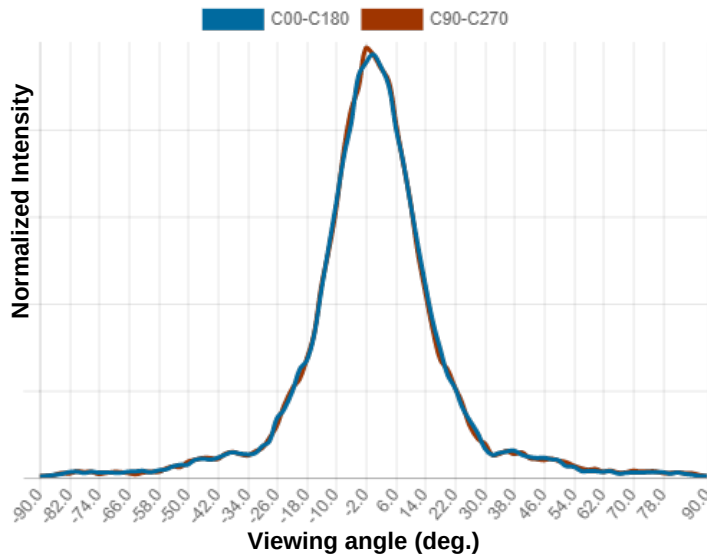
LLC22N with LUMILEDS LUXEON_CX_PLUS_CoB_HDS01H04

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
25.4		55.0		2.5	



A length	B height	C foot
	8.2(mm)	16.0(mm)



LDT file



IES file



2D Schematics

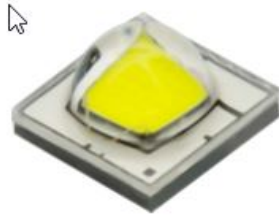


3D Schematics

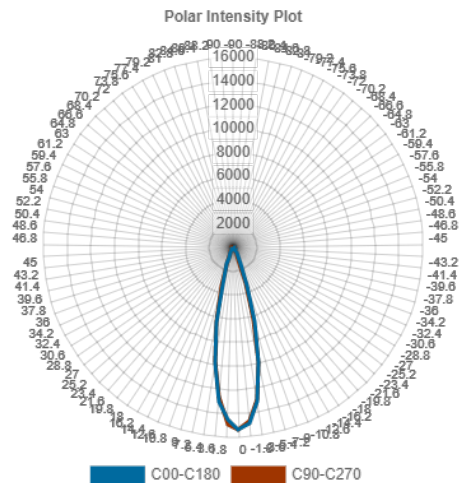
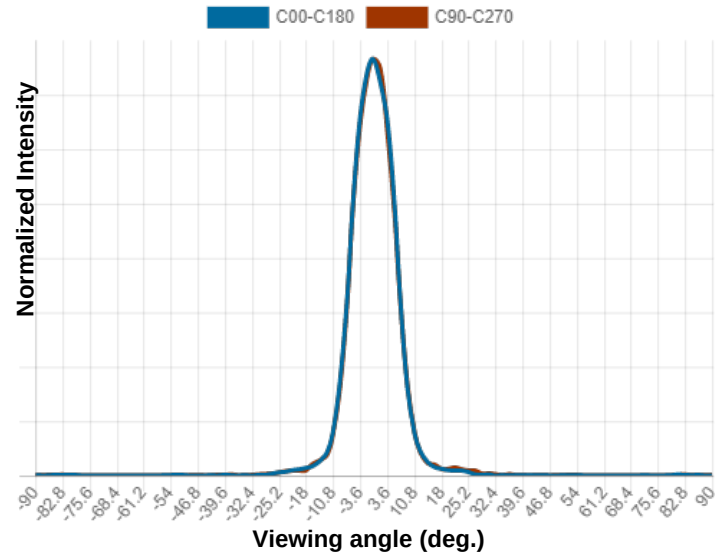
LLC22N with LUMINUS SST_20_WxH

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
13.2		21.6		15.3	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics

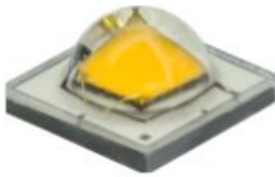


3D Schematics

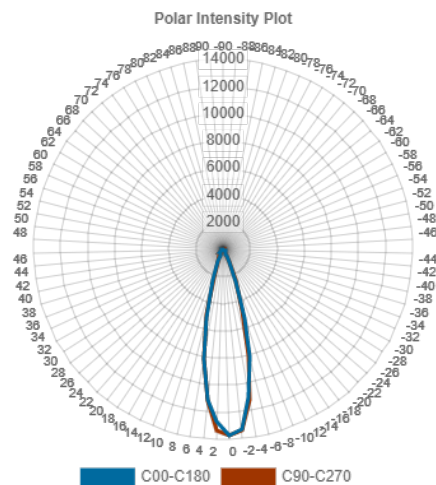
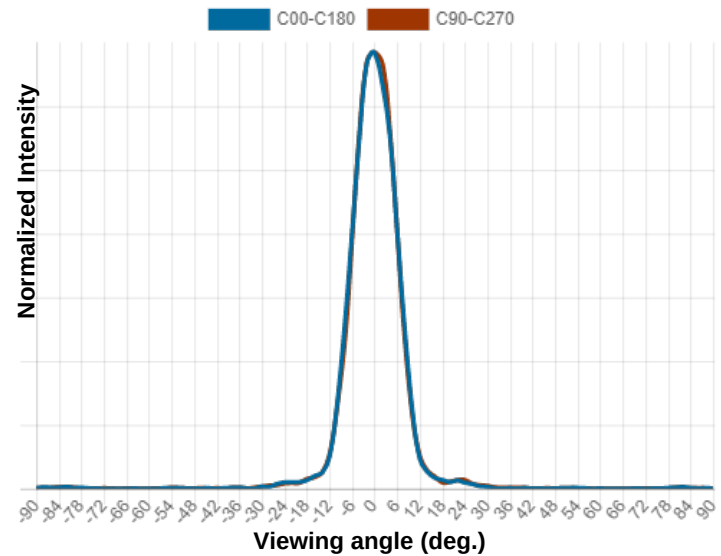
LLC22N with LUMINUS SST_20_WxS

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
13.6		22.6		13.7	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics

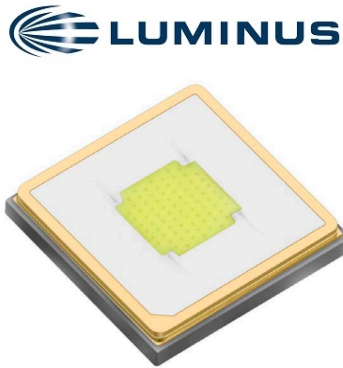


3D Schematics

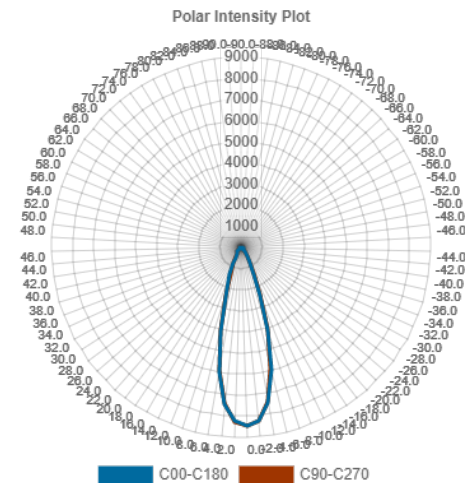
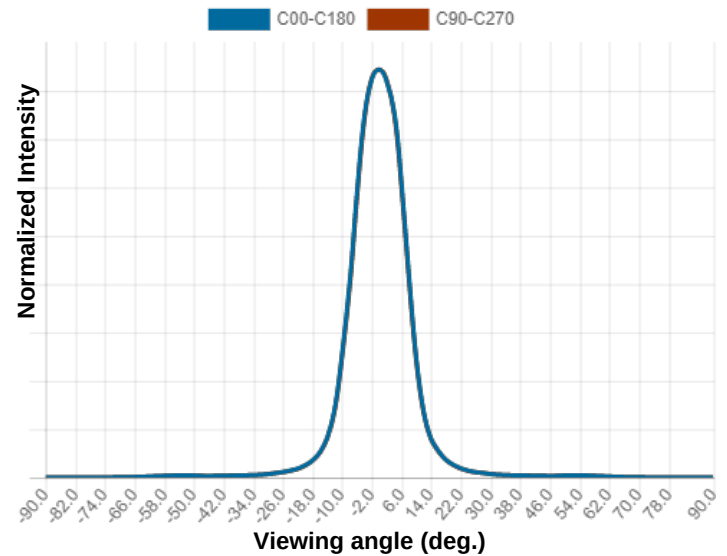
LLC22N with LUMINUS SFT-40

Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
15.7		27.8		8.4	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01P5200

LLH01P52001



LDT file



IES file



2D Schematics

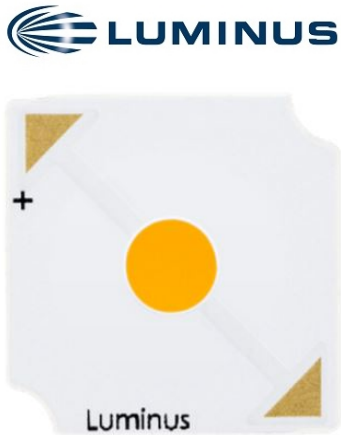


3D Schematics

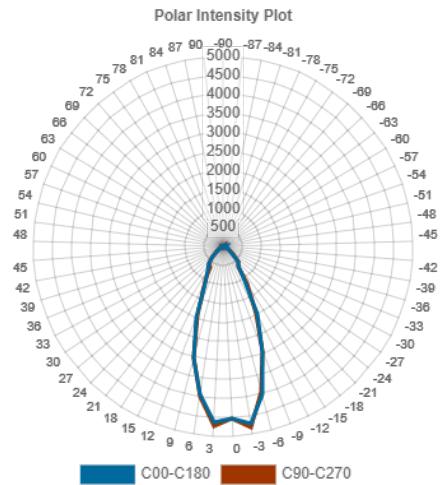
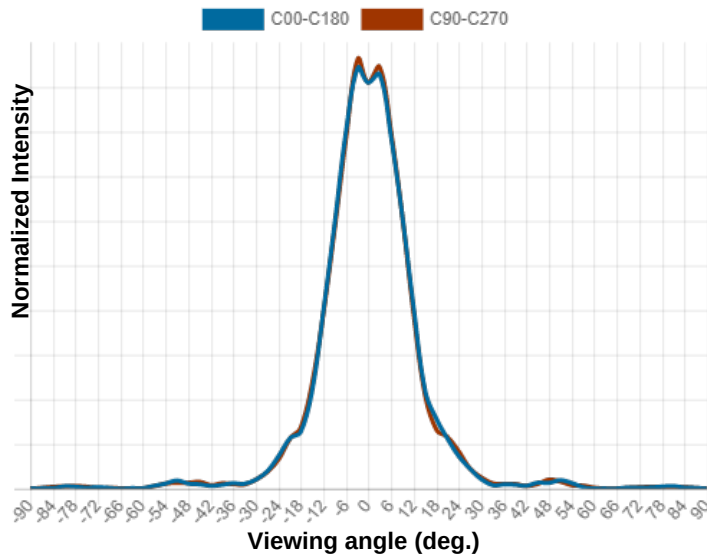
LLC22N with LUMINUS CXM_3

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
21.3		46.3		4.8	



A length	B height	C foot
	8.2(mm)	16.0(mm)



-  LDT file
-  IES file
-  2D Schematics
-  3D Schematics

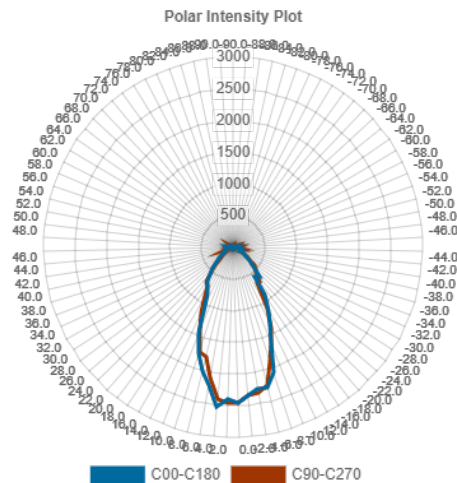
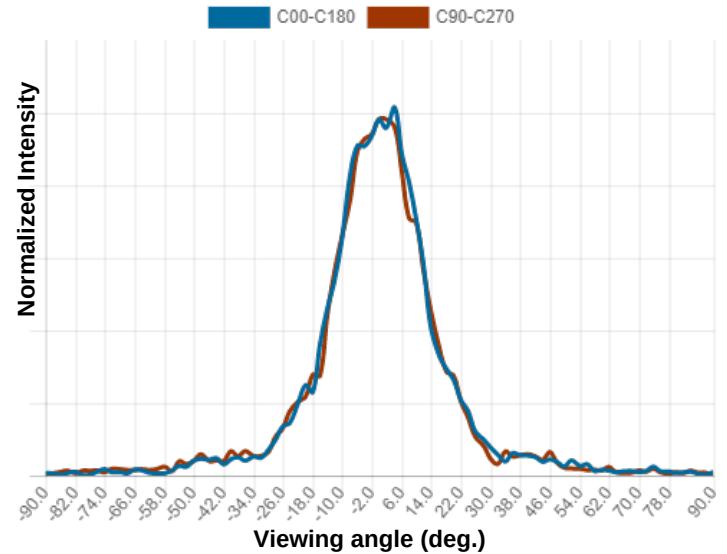
LLC22N with LUMINUS CXM_4

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
24.7		54.6		2.5	



A length	B height	C foot
	8.2(mm)	16.0(mm)



LDT file



IES file



2D Schematics

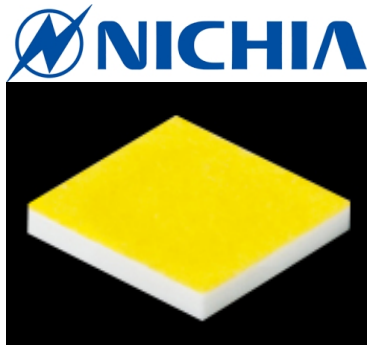


3D Schematics

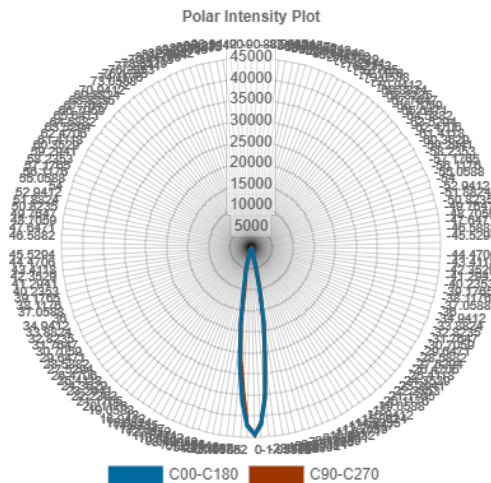
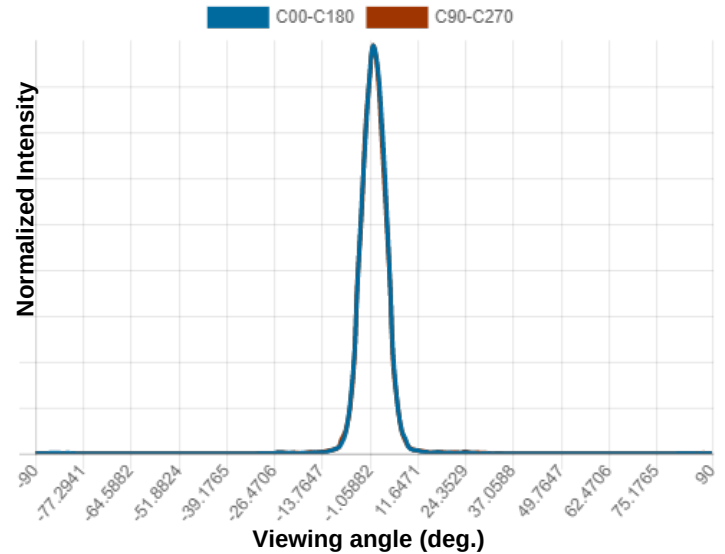
LLC22N with NICHIA NFSWE11A

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
7.3		13.2		44.4	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories			
LLH01BBD00	LLH01BBD02	LLH01AAD00	LLH01AAD02



LDT file



IES file



2D Schematics

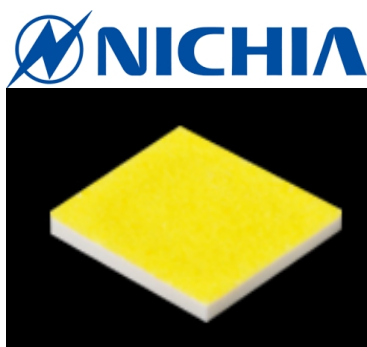


3D Schematics

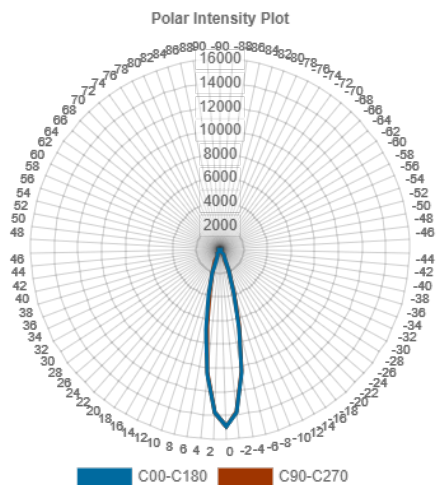
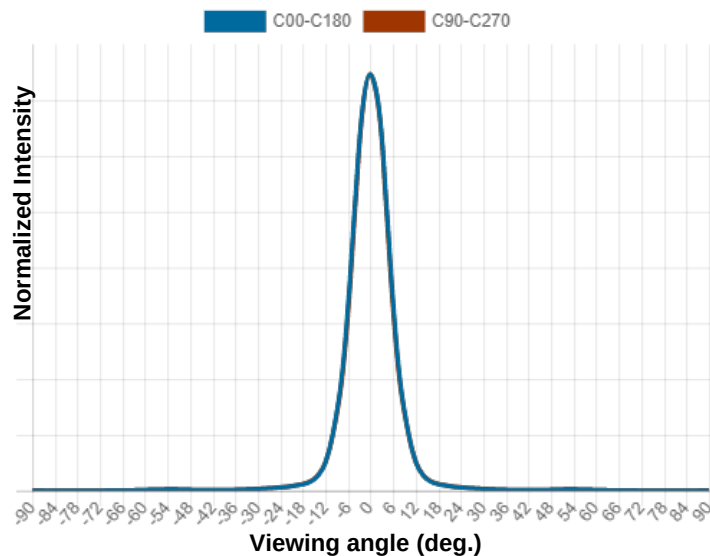
LLC22N with NICHIA NCSWE17AT

Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
11.2		21.7		14.9	



A length	B height	C foot
	8.2(mm)	16.0(mm)



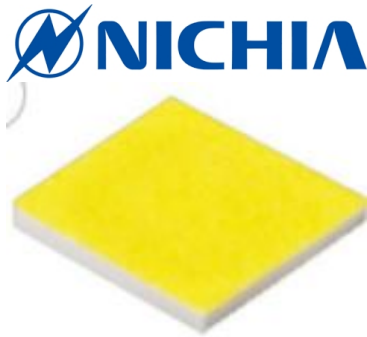
Accessories			
LLH01BBD00	LLH01BBD02	LLH01AAD00	LLH01AAD02

LDT file	IES file	2D Schematics	3D Schematics
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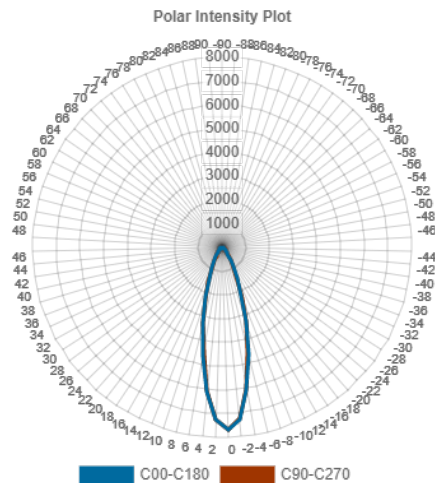
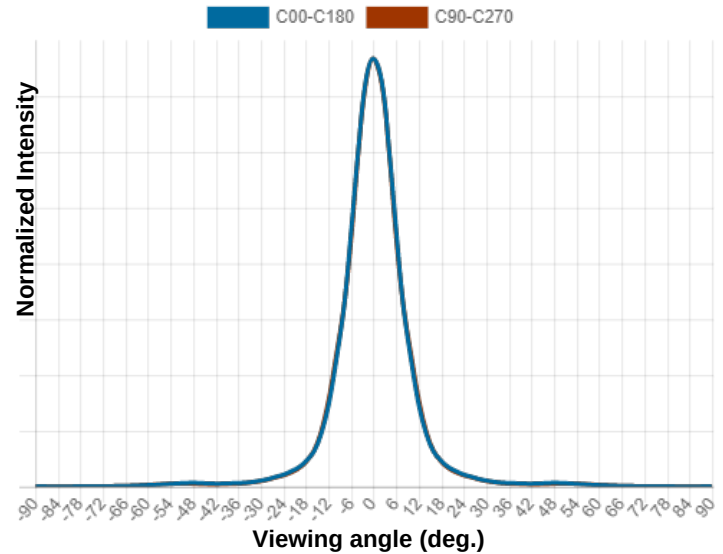
LLC22N with NICHIA NVSWE21AT

Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
14.2		30.2		7.7	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories							
LLH01AAD02	LLH01AAD021	LLH01AAD00	LLH01AAD001	LLH01BBD02	LLH01BBD021	LLH01BBD00	LLH01BBD001



LDT file



IES file



2D Schematics

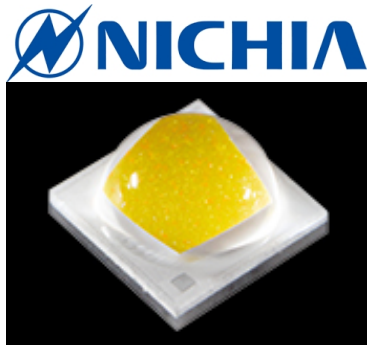


3D Schematics

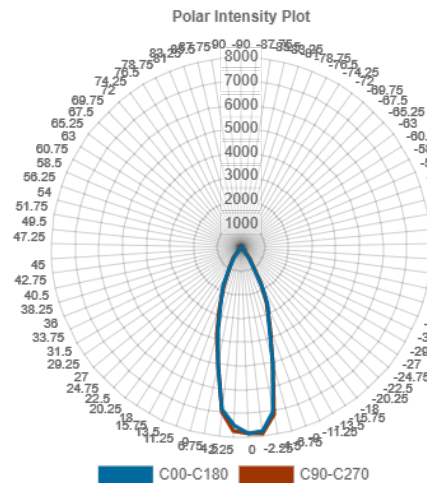
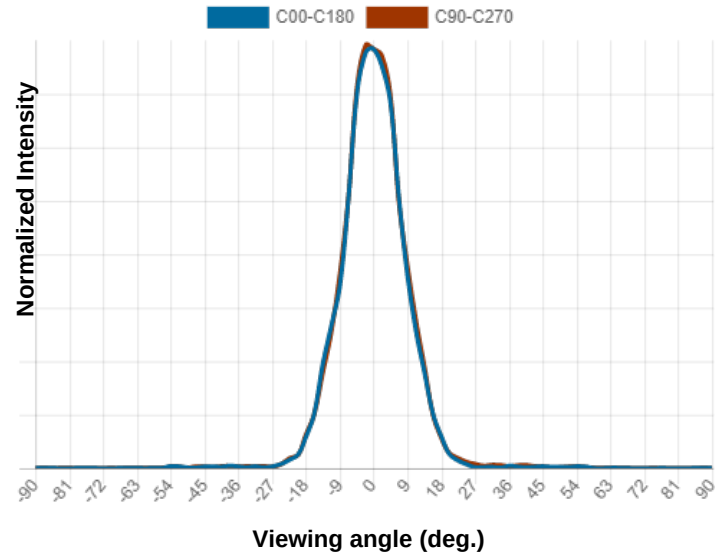
LLC22N with NICHIA NVSW219F_V1

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
16.7		33.8		8.0	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics

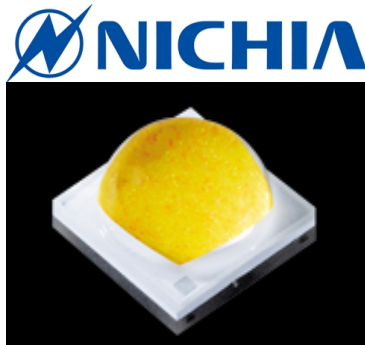


3D Schematics

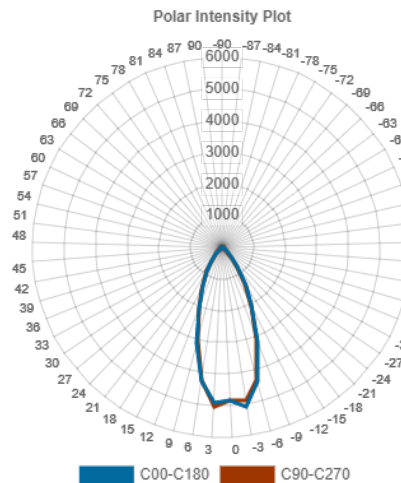
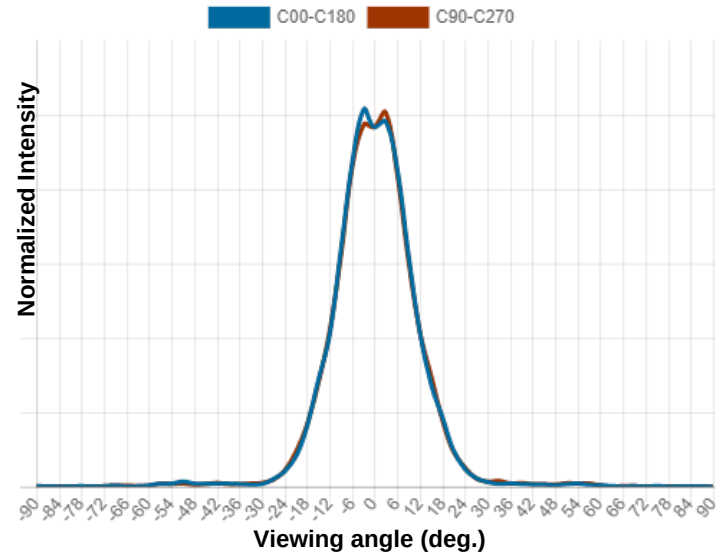
LLC22N with NICHIA NVSW519A

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
21.0		41.3		5.1	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



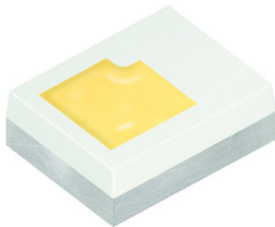
3D Schematics

LLC22N with OSRAM OSOLON COMPACT CM LUW CEUN.CE

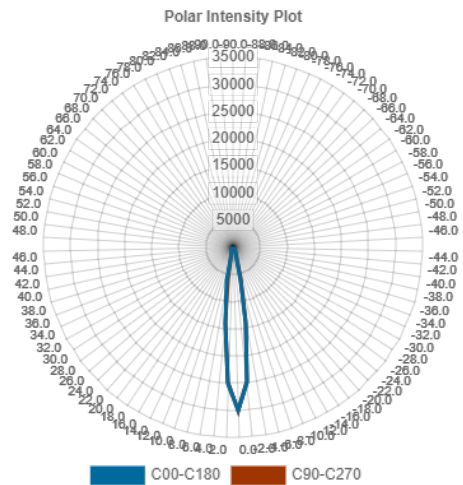
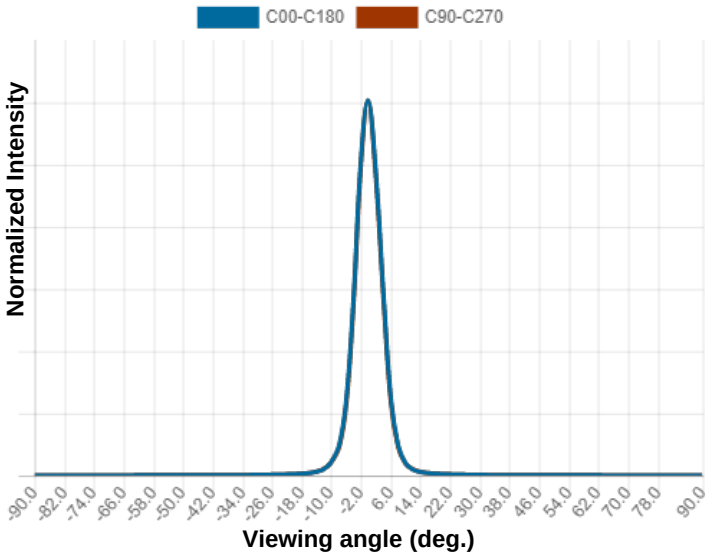
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
7.6		14.9		30.2	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



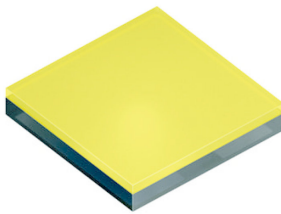
3D Schematics

LLC22N with OSRAM OSOLON PURE 1010 GW VJLPE1 EM

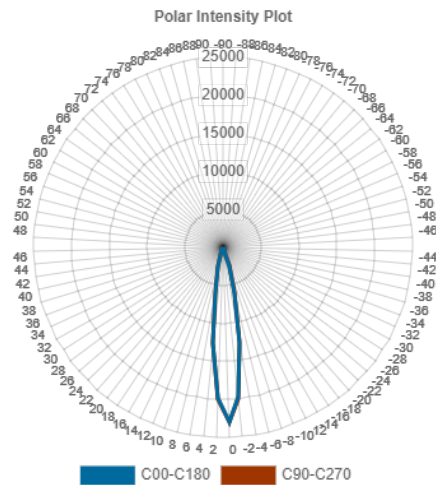
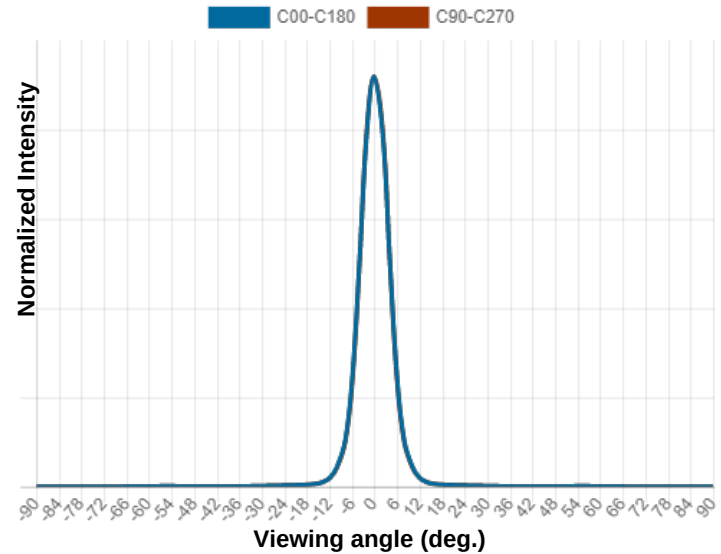
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
8.6		16.4		23.0	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBD00

LLH01BBD02

LLH01AAD00

LLH01AAD02



LDT file



IES file



2D Schematics



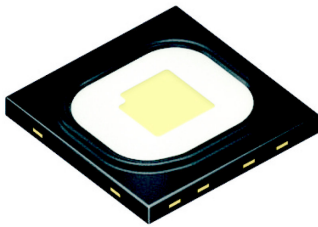
3D Schematics

LLC22N with OSRAM OSLO BLACK FLAT LUW HWQP

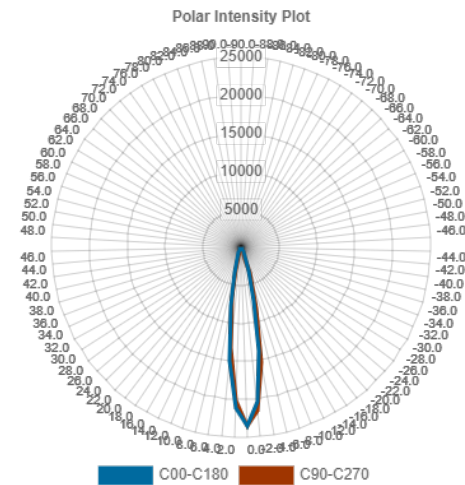
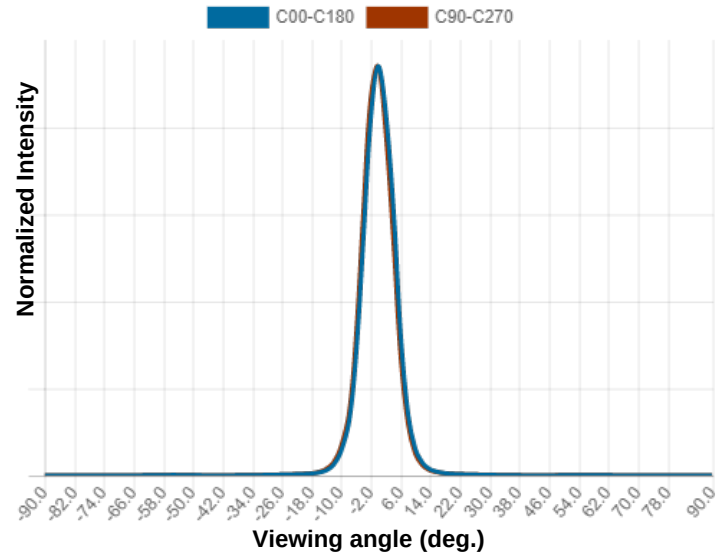
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
9.4		17.7		23.5	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics

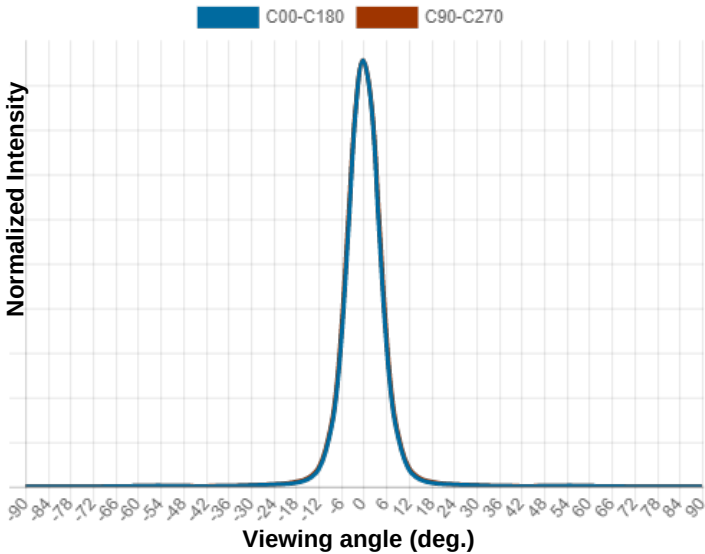


3D Schematics

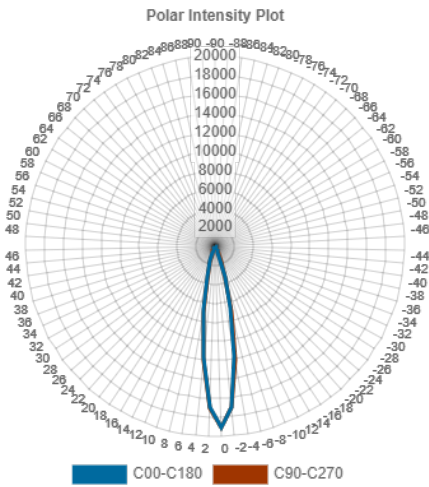
LLC22N with OSRAM OSOLON COMPACT CL LUW CEUP

Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
9.8		19.2		19.1	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00	LLH01BBC02	LLH01BBA00	LLH01BBA02	LLH01AAC00	LLH01AAC02	LLH01AAA00	LLH01AAA02	LLH01BBC021	LLH01BBC022
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LDT file



IES file



2D Schematics



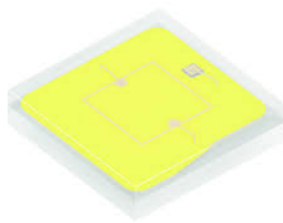
3D Schematics

LLC22N with OSRAM OSLO SQUARE FLAT KW CSLPM2.PC

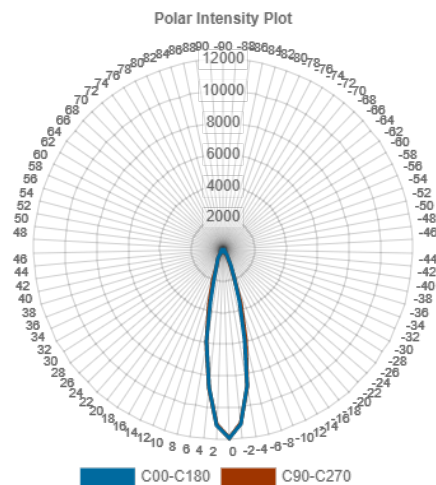
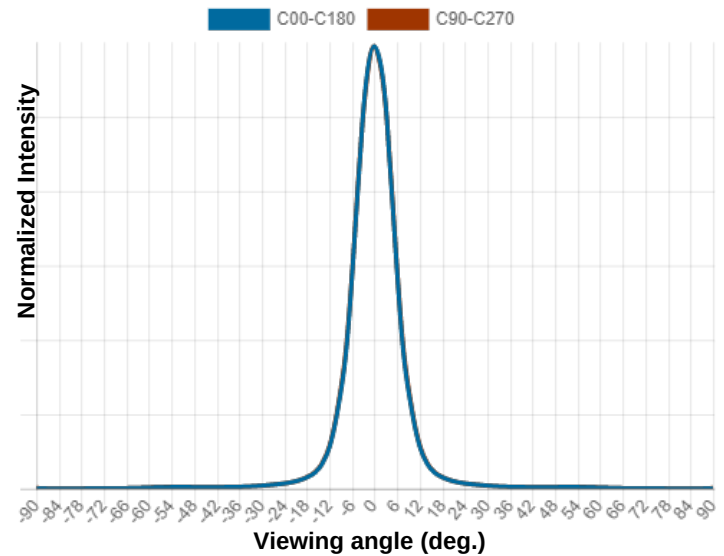
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
11.9		23.6		11.9	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



3D Schematics

LLC22N with OSRAM OSLO Boost HX KW CULPM1.TG

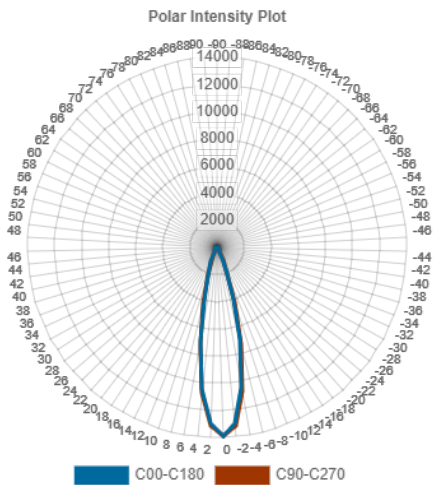
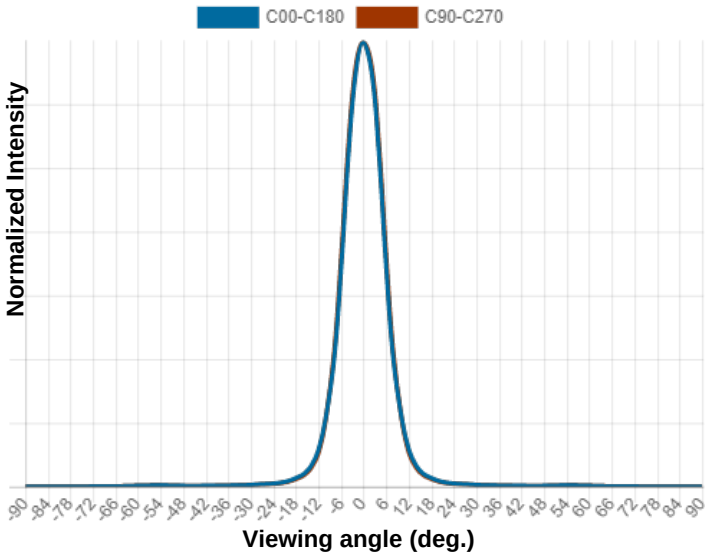
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
12.2		22.4		13.9	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021



LDT file



IES file



2D Schematics



3D Schematics

LLC22N with OSRAM OSCONIQ C 2424 GW PLLRA1.EM

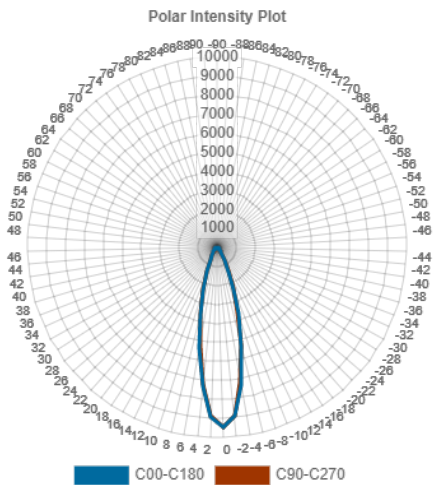
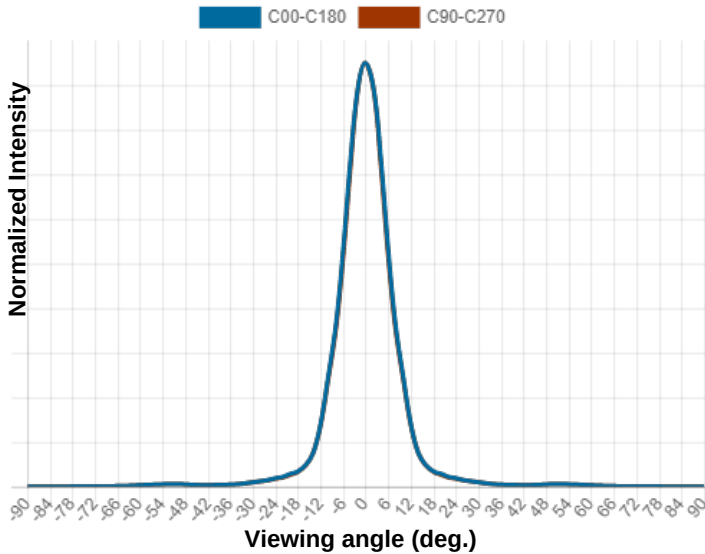
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
13.2		26.4		9.5	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories									
LLH01BBC00	LLH01BBC02	LLH01BBA00	LLH01BBA02	LLH01AAC00	LLH01AAC02	LLH01AAA00	LLH01AAA02	LLH01BBC021	LLH01BBC022



LDT file



IES file



2D Schematics



3D Schematics

LLC22N with OSRAM OSCONIQ P3737 GW PUSRA1.EM

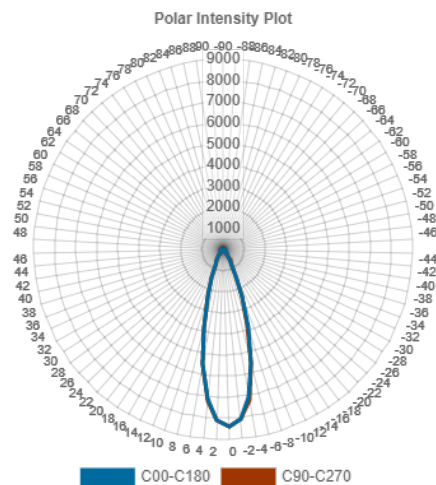
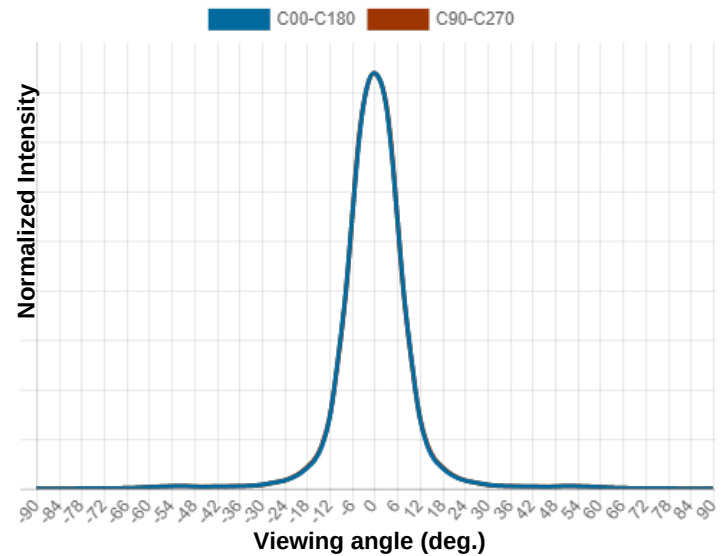
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
15.2		28.4		8.4	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



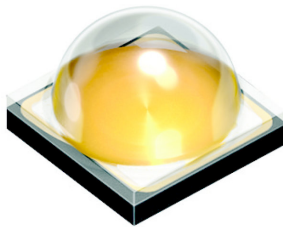
3D Schematics

LLC22N with OSRAM OSLO SQUARE GW CSSRM2.PM

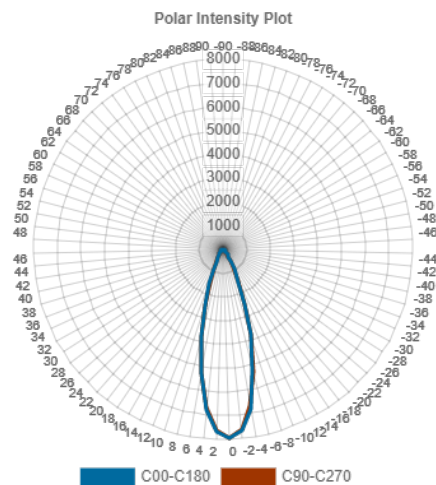
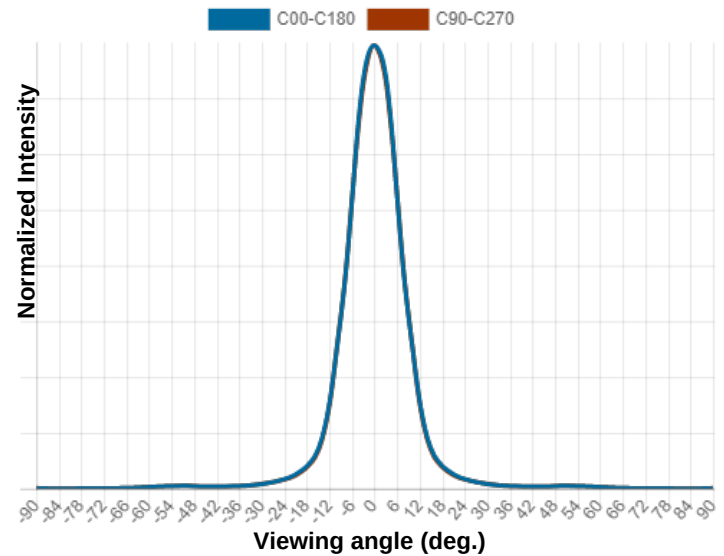
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
15.5		29.0		7.9	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



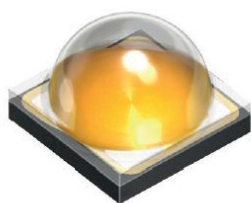
3D Schematics

LLC22N with OSRAM OSLO SQUARE GW CSSRMU.CM

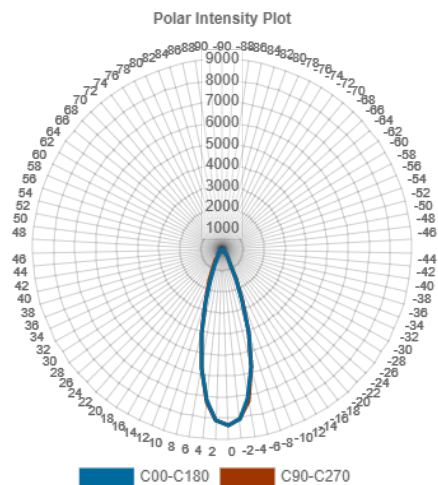
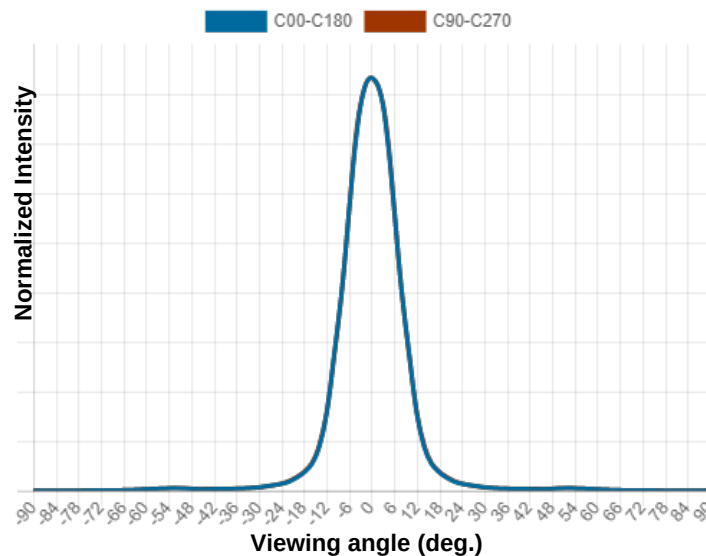
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
15.9		28.5		8.3	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00

LLH01BBC02

LLH01BBA00

LLH01BBA02

LLH01AAC00

LLH01AAC02

LLH01AAA00

LLH01AAA02

LLH01BBC021

LLH01



LDT file



IES file



2D Schematics



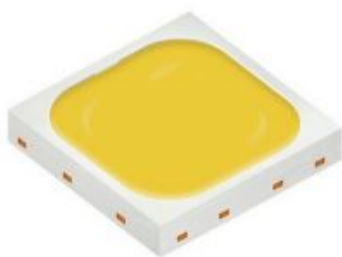
3D Schematics

LLC22N with OSRAM OSCONIQ P3737 GW PULTA1.CM

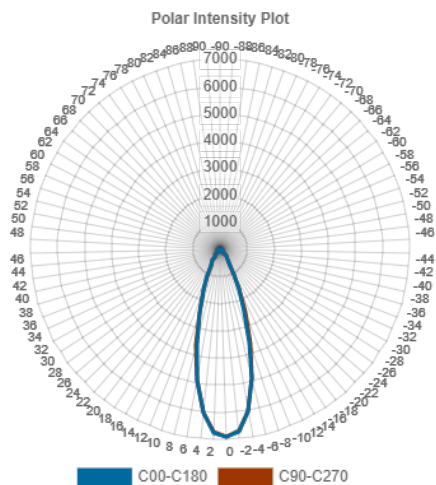
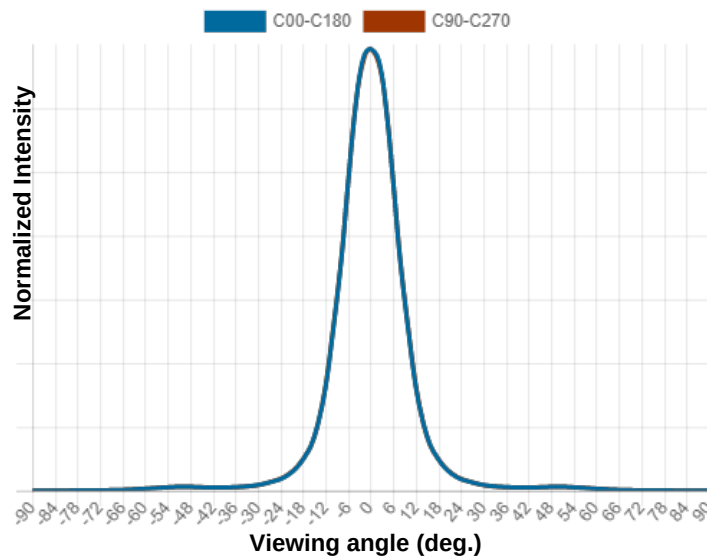
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
16.5		32.2		6.9	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00

LLH01BBC02

LLH01BBA00

LLH01BBA02

LLH01AAC00

LLH01AAC02

LLH01AAA00

LLH01AAA02

LLH01BBC021

LLH01BBC022



LDT file



IES file



2D Schematics



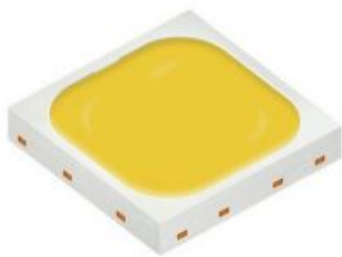
3D Schematics

LLC22N with OSRAM OSCONIQ P 3737 GW PULTA1.CM

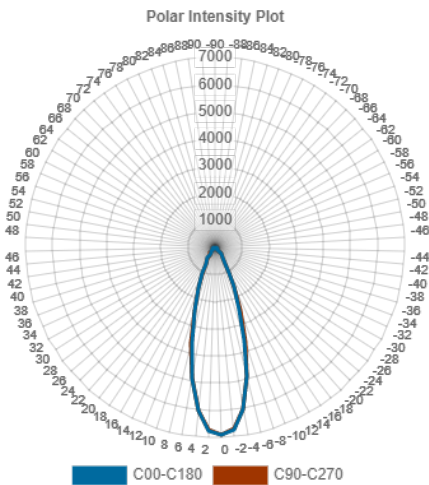
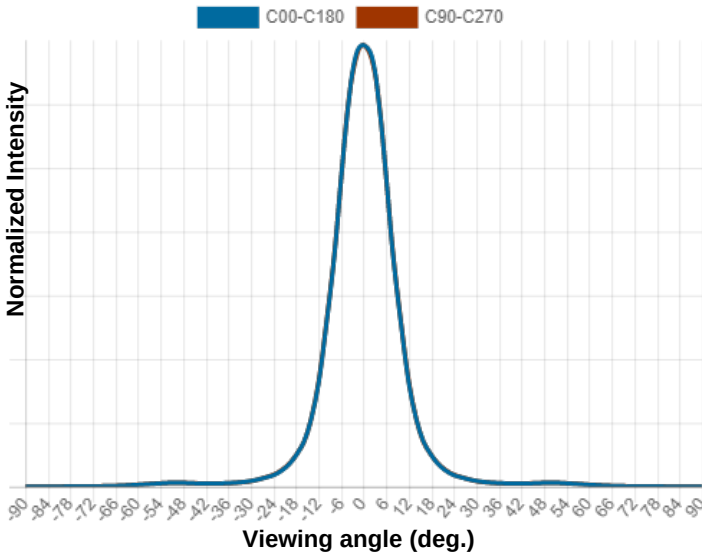
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
16.5		32.2		6.9	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories						
LLH01AAC02	LLH01AAC00	LLH01AAC001	LLH03XRR02	LLH03XRR01	LLH04XRR02	LLH04XRR01



LDT file



IES file



2D Schematics



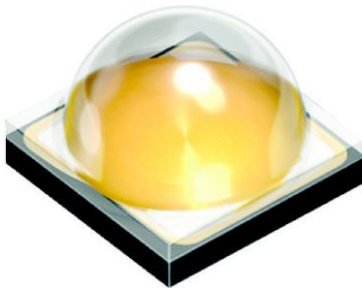
3D Schematics

LLC22N with OSRAM OSOLON SQUARE GW CSSRM3.PM

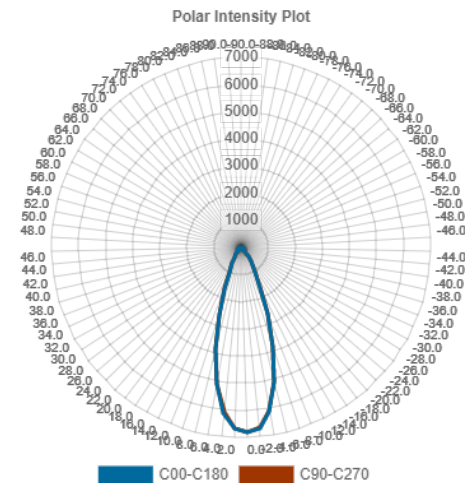
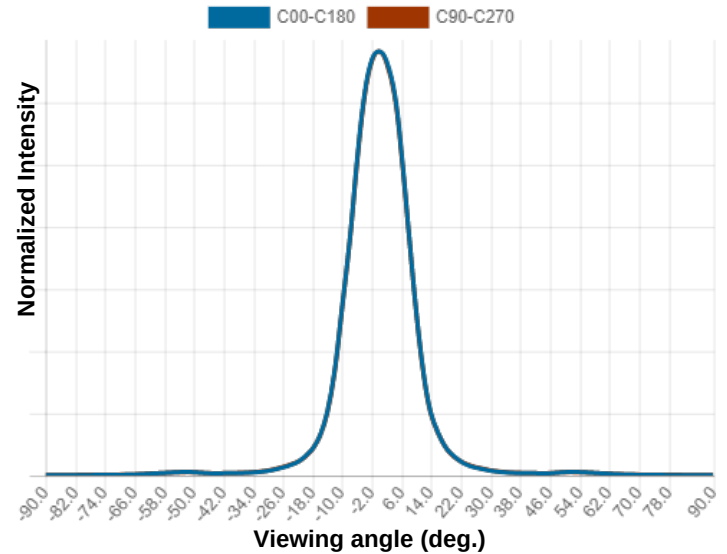
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
17.4		31.4		6.8	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



3D Schematics

LLC22N with OSRAM OSCONIQ P3737 GW PUSTA1.PM

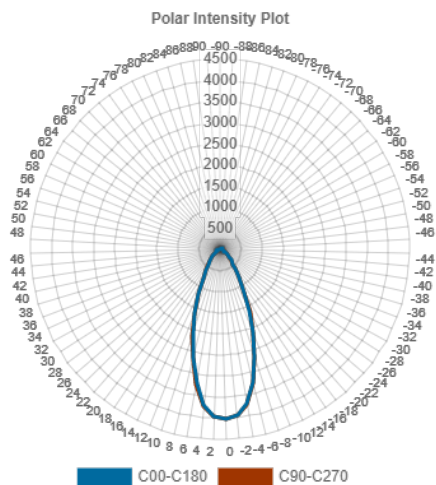
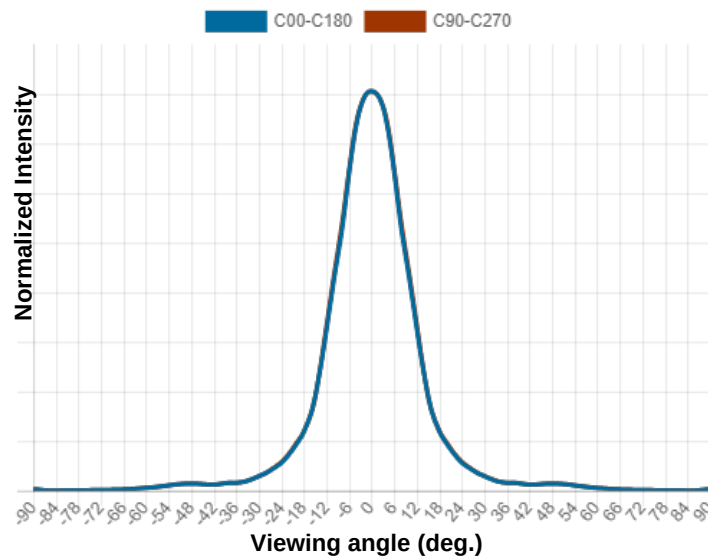
Measured results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
20.9		42.9		4.0	

OSRAM
Opto Semiconductors



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics



3D Schematics

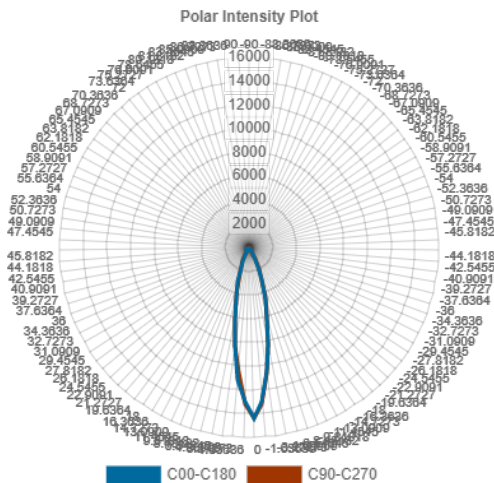
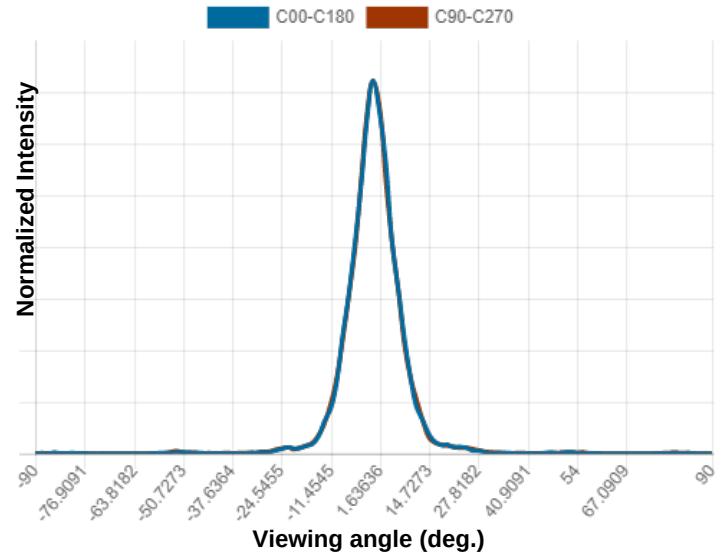
LLC22N with SEOUL STW8C12C_E0

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
11.3		24.9		14.4	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



IES file



2D Schematics

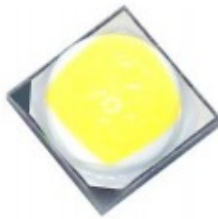


3D Schematics

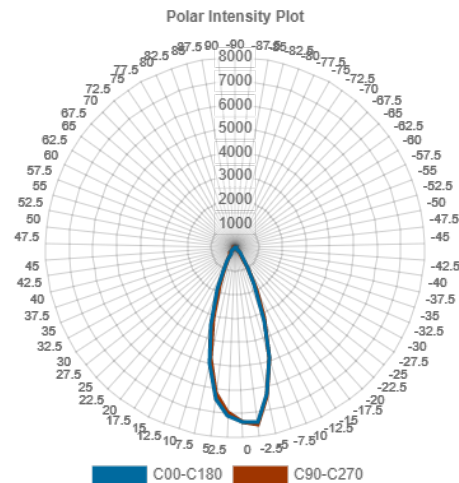
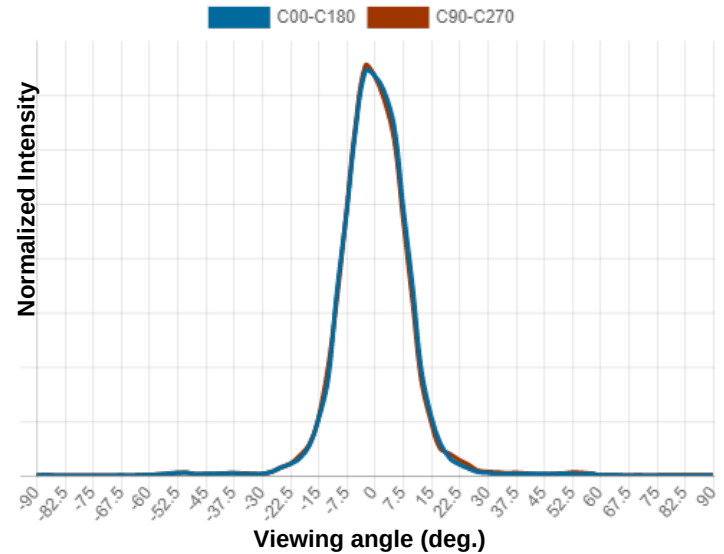
LLC22N with SEOUL Z5M4

Simulated results

Beam angle @50% (Deg.) Major axis or Narrow Pos.	Beam angle @50% (Deg.) Major axis or Wide Pos.	Beam angle @10% (Deg.) Major axis or Narrow Pos.	Beam angle @10% (Deg.) Major axis or Wide Pos.	Efficacy (cd/lm) Major axis or Narrow Pos.	Efficacy (cd/lm) Minor axis or Wide Pos.
18.4		32.7		7.5	



A length	B height	C foot
	8.2(mm)	16.0(mm)



Accessories

LLH01BBC00 LLH01BBC02 LLH01BBA00 LLH01BBA02 LLH01AAC00 LLH01AAC02 LLH01AAA00 LLH01AAA02 LLH01BBC021 LLH01BBC022



LDT file



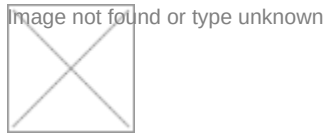
IES file



2D Schematics



3D Schematics



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