CXM-6

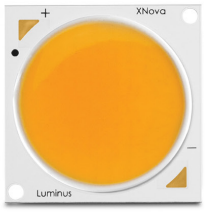
CXM-7

CXM-9

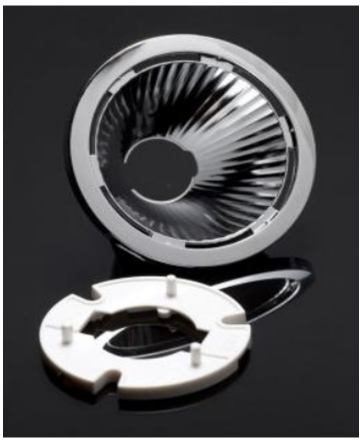
CXM-11

CXM-14

CXM-18


CXM-27

XNOVA ECO-System Optical Data Sheet



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General Information

Secondary optics are used in conjunction with XNOVA COB arrays to produce a wide variety of lighting for numerous applications. This document provides information about the use of secondary optics produced by major manufacturers such as Ledlink and Ledil as well as connectors and holders produced by TE, Molex, Bender & Wirth and BJB.

Design solutions invoving secondary optics often utilize a solderless connector or holder wich serves as a mechanical and electrical interface between the secondary optics and LED. Combinations of holders and connectors along with matching reflectors are tabulated on pages 3 and 4.

Materials

- Aluminum Coated PC

Working Temperature

- -10°C to 120°C

Applications

- PAR 30
- PAR 38
- MR 11
- MR 16
- A19
- Flood Lamp
- Tube Lamp
- Spot Lamp
- Down Light
- Panel Light
- Track Lighting
- Wall Lighting
- High Bay Lighting
- Display Case Lighting
- Studio Lighting

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COB/Reflector/Connector Compatibility Table

Manufacturer	COB p/n	Manufacturer	Reflector p/n	Diameter (mm)	Height (mm)	Manufacturer	Connector/Holder p/n
Luminus Devices	CXM-6	Ledil	CN13130_Mirella-50-S-DL-PF	49.9	23.9	Ledil	C13083_PF_Socket
Luminus Devices	CXM-6	Ledil	CN13131_Mirella-50-M-DL-PF	49.9	23.9	Ledil	C13083_PF_Socket
Luminus Devices	CXM-6	Ledil	CN13132_Mirella-50-XW-PF	49.9	23.9	Ledil	C13083_PF_Socket
Luminus Devices	CXM-6	LedLink	LL01CIOT-24R2-P	50	30	LedLink	LL01A00SULB2
Luminus Devices	CXM-6	LedLink	LL01CIOT-33R3-P	50	30	LedLink	LL01A00SULB2
Luminus Devices	CXM-6	LedLink	LL01CIOT-45R3-P	50	30	LedLink	LL01A00SULB2
Luminus Devices	CXM-7	Ledil	CN13130_Mirella-50-S-DL-PF	49.9	23.9	Ledil	C13083_PF_Socket
Luminus Devices	CXM-7	Ledil	CN13131_Mirella-50-M-DL-PF	49.9	23.9	Ledil	C13083_PF_Socket
Luminus Devices	CXM-7	Ledil	CN13132_Mirella-50-XW-PF	49.9	23.9	Ledil	C13083_PF_Socket
Luminus Devices	CXM-7	LedLink	LL01CIOT-24R2-P	50	30	LedLink	LL01A00SULB2
Luminus Devices	CXM-7	LedLink	LL01CIOT-33R3-P	50	30	LedLink	LL01A00SULB2
Luminus Devices	CXM-7	LedLink	LL01CIOT-345R3-P	50	30	LedLink	LL01A00SULB2
Luminus Devices	CXM-7	LedLink	LL01ED-AKY24R49	50	30	LedLink	LL01A01STYB2
Luminus Devices	CXM-7	LedLink	LL01ED-AKY38R49	50	30	LedLink	LL01A01STYB2
Luminus Devices	CXM-7	LedLink	LL01ED-AKY55R49	50	30	LedLink	LL01A01STYB2
Luminus Devices	CXM-7					Molex	180555-0001
Luminus Devices	CXM-9	Ledil	CN13130_Mirella-50-S-DL-PF	49.9	23.9	Ledil	C13083_PF_Socket
Luminus Devices	CXM-9	Ledil	CN13131_Mirella-50-M-DL-PF	49.9	23.9	Ledil	C13083_PF_Socket
Luminus Devices	CXM-9	Ledil	CN13132_Mirella-50-XW-PF	49.9	23.9	Ledil	C13083_PF_Socket
Luminus Devices	CXM-9	Ledlink	LLO1CIOT-20R2-P	50	30	LedLink	LL01A00SULB2
Luminus Devices	CXM-9					Bender & Wirth	461
Luminus Devices	CXM-9-AC					TE Connectivity	6-2154874-1
Luminus Devices	CXM-9-AC					Molex	180414-1112
Luminus Devices	CXM-9-AC					Ideal	50-2002CT
Luminus Devices	CXM-9-AC					Bender & Wirth	434 typ L1
Luminus Devices	CXM-14	Ledil	F13659_Angelina-S-B	82	36.04	TE Connectivity	2213130-2
Luminus Devices	CXM-14	Ledil	F13379_Angelina-M-B	82	36.04	TE Connectivity	2213130-2
Luminus Devices	CXM-14	Ledil	F13381_Angelina-W-B	82	36.04	TE Connectivity	2213130-2
Luminus Devices	CXM-14	Ledil	F13379_Angela-S-B	119.5	79.31	TE Connectivity	2213130-2
Luminus Devices	CXM-14	Ledil	F13380_Angela-M-B	119.5	79.31	TE Connectivity	2213130-2
Luminus Devices	CXM-14	Ledil	F13664_Angela-W-B	119.5	79.31	TE Connectivity	2213130-2
Luminus Devices	CXM-14					TE Connectivity	2-2154857-2
Luminus Devices	CXM-14					Molex	180414-0001
Luminus Devices	CXM-14-AC					Bender & Wirth	433 Typ L1
Luminus Devices	CXM-14-AC	Ledil	F13659_Angelina-S-B	82	36.04	TE Connectivity	2213254-1
Luminus Devices	CXM-14-AC	Ledil	F13379_Angelina-M-B	82	36.04	TE Connectivity	2213254-1
Luminus Devices	CXM-14-AC	Ledil	F13381_Angelina-W-B	82	36.04	TE Connectivity	2213254-1
Luminus Devices	CXM-14-AC	Ledil	F13379_Angela-S-B	119.5	79.31	Ideal	50-2103CT
Luminus Devices	CXM-14-AC	Ledil	F13380_Angela-M-B	119.5	79.31	Ideal	50-2103CT
Luminus Devices	CXM-14-AC	Ledil	F13664_Angela-W-B	119.5	79.31	Ideal	50-2103CT

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COB/Reflector/Connector Compatibility Table

Manufacturer	COB p/n	Manufacturer	Reflector p/n	Diameter (mm)	Height (mm)	Manufacturer	Connector/Holder p/n
Luminus Devices	CXM-18	LedLink	LL01ED-AKA60R49	85	23.5	LedLink	LL01A01STZB2
Luminus Devices	CXM-18	LedLink	LL01ED-AKX24R49	116	32	LedLink	LL01A01STZB2
Luminus Devices	CXM-18	LedLink	LL01ED-AKX38R49	116	32	LedLink	LL01A01STZB2
Luminus Devices	CXM-18	Ledil	CN12721_Lena-S-DL	111	85.6	Ledil	C12153_LENA-STD-BASE
Luminus Devices	CXM-18	Ledil	CN12722_Lena-M-DL	111	85.6	Ledil	C12153_LENA-STD-BASE
Luminus Devices	CXM-18	Ledil	CN12723_Lena-W-DL	111	85.6	Ledil	C12153_LENA-STD-BASE
Luminus Devices	CXM-18					Bender & Wirth	453
Luminus Devices	CXM-27	Ledil	C13867_Adapter			Bender & Wirth	454

XNova	Optics Solutions					Connector Solutions	
COB p/n	Manufacturer	Reflector p/n	Beam Angle FWHM (deg)	Diameter (mm)	Height (mm)	Manufacturer	Connector/ Holder p/n
CXM-22	Ledil	CN12706_LENINA-S	27	74	48.35	Ideal 50-2204CT BJB 47.319.2030 TE 6-2154874-3 TE 2-21554857-2 Bender & Wirth 431 Typ L2	
CXM-22	Ledil	CN12707_LENINA-M	39	74	48.35		
CXM-22	Ledil	CN12708_LENINA-W	58	74	48.35		
CXM-22	Ledil	CN12965_LENINA-XW	73	74	48.35		
CXM-22	Ledil	CN12709_LENINA-S-DL	28	74	48.35		
CXM-22	Ledil	CN12710_LENINA-M-DL	40	74	48.35		
CXM-22	Ledil	CN12711_LENINA-W-DL	58	74	48.35		
CXM-22	Ledil	CN12979_LENINA-XW-DL	73	74	48.35		
CXM-22	Ledil	CN13649_LENA-SS	23	111	85.6		
CXM-22	Ledil	CN12716_LENA-M	27	111	85.6		
CXM-22	Ledil	CN12717_LENA-W	50	111	85.6		
CXM-22	Ledil	CN12721_LENA-S-DL	21	111	85.6		
CXM-22	Ledil	CN13650_LENA-SS-DL	25	111	85.6		
CXM-22	Ledil	CN12722_LENA-M-DL	29	111	85.6		
CXM-22	Ledil	CN12723_LENA-W-DL	50	111	85.6		
CXM-22	Ledil	F13662_ANGELA-S-B	16	119.5	79.31		
CXM-22	Ledil	F13663_ANGELA-M-B	22	119.5	79.31		
CXM-22	Ledil	F13664_ANGELA-W-B	40	119.5	79.31		
CXM-22	Ledil	F13841_ANGELA-XW-B	72	119.5	79.31		
CXM-22	Ledil	F13659_ANGELINA-S-B	32	82	36.04		
CXM-22	Ledil	F13660_ANGELINA-M-B	48	82	36.04		
CXM-22	Ledil	F13661_ANGELINA-W-B	63	82	36.04		
CXM-22	Ledil	F13839_ANGELINA-XW-B	91	82	36.04		
CXM-22	Ledil	FN14074_STELLA-HB	73	90	19.5		

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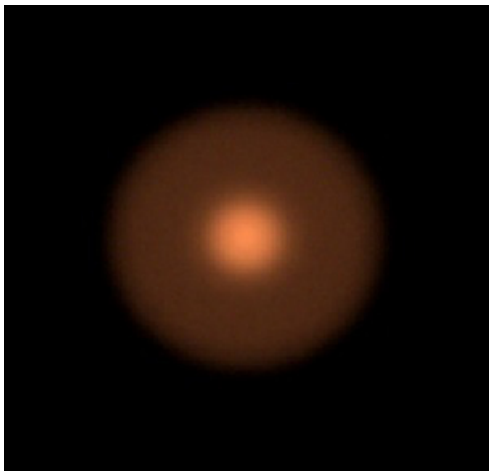
Lumen Range					
COB p/n	CRI Range	CCT Range (K°)	T_J (C°)	Current (A)	Flux Range (Lm)
CXM-6	80-95	2700 - 5000	85	0.120	325-510
CXM-7	80-95	2700 - 5000	85	0.160	450-720
CXM-9	80-95	2700 - 5000	85	0.240	680-1060
CXM-14	80-95	2700 - 5000	85	0.480	1410-2200
CXM-18	80-95	2700 - 5000	85	0.800	2340-3690
CXM-27	80-95	2700 - 5000	85	1.8	5280-8310

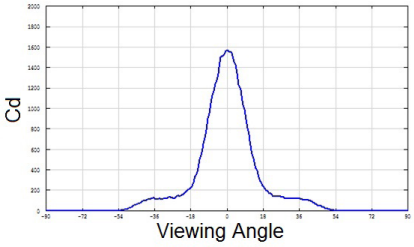
Beam Profile and Illumination Data

CXM-7

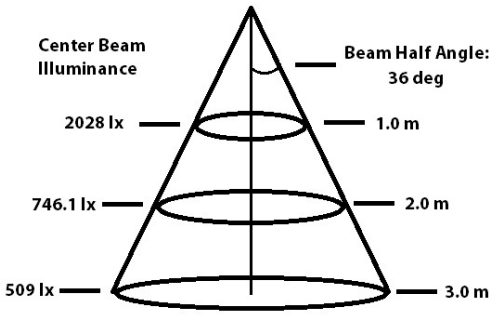
P/N	FWHM	Field Angle	Cd/lm
LL01BR-TYR20R34-P	20.8	72.0	3.94



Beam Pattern



Intensity Distribution Curve



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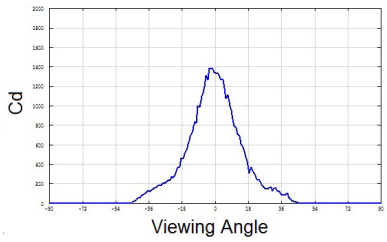
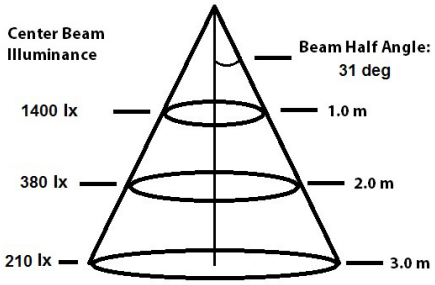
CXM-7

P/N	FWHM	Field Angle	Cd/lm
CN13128_MIRELLA-50-M	26	72	3.1

Beam Pattern



Intensity Distribution Curve

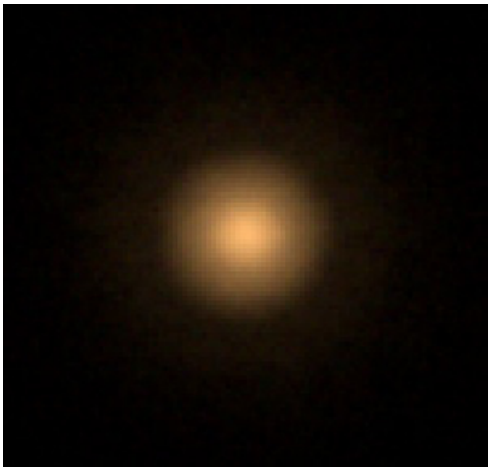


Illuminance Distribution

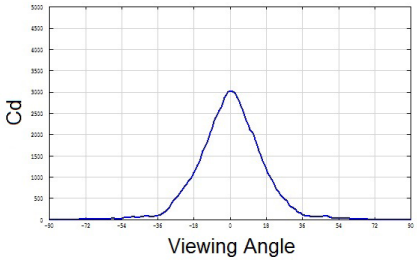
LedLink
Linking LEDs to The Real World

CXM-9

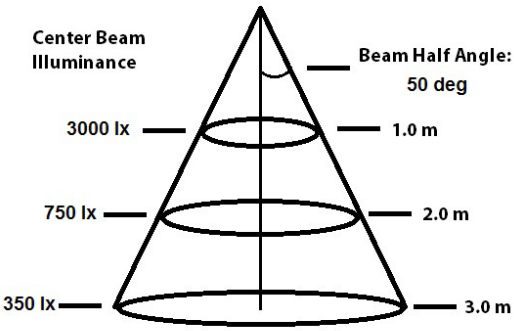
P/N	FWHM	Field Angle	Cd/lm
LL01CIOT33R2-P	28	60	2.76



Beam Pattern



Intensity Distribution Curve



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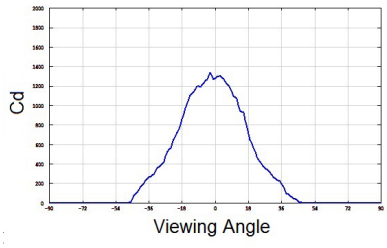
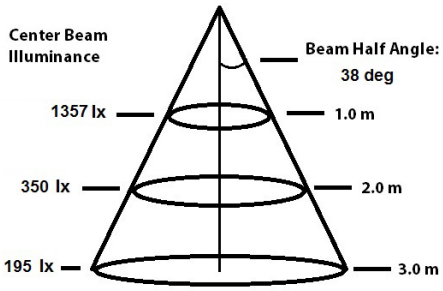
CXM-9

P/N	FWHM	Field Angle	Cd/lm
CN13129_MIRELLA-50-W	44	80	1.7



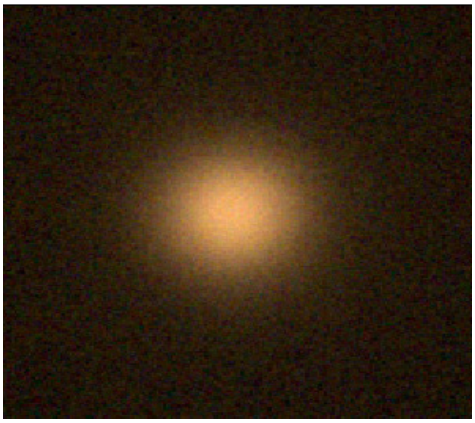


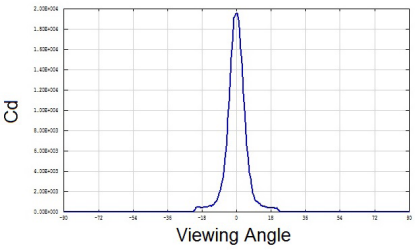
Beam Pattern	Intensity Distribution Curve	Illuminance Distribution

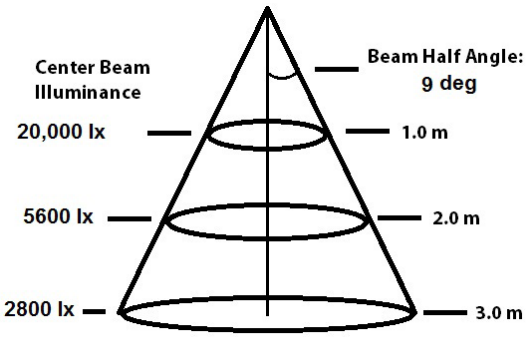
LEDiL

CXM-14

P/N	FWHM	Field Angle	Cd/lm
F13379_Angela-S-B	10	20	20







Beam Pattern	Intensity Distribution Curve	Illuminance Distribution

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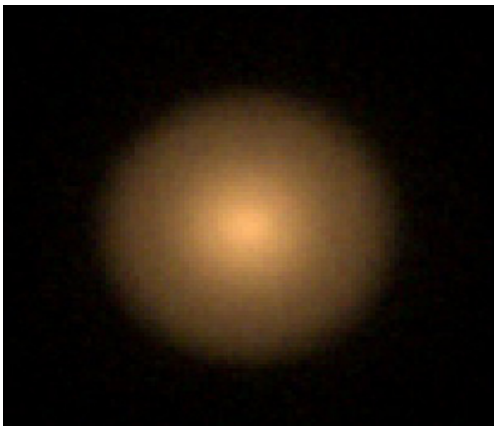
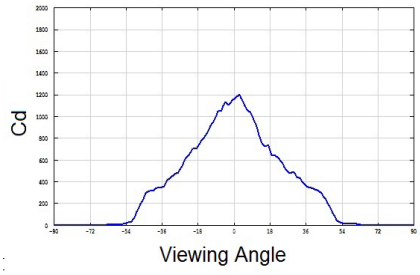
CXM-14

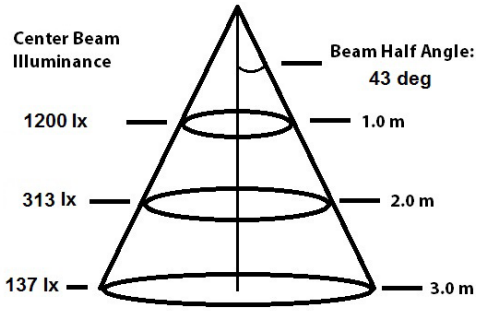
P/N	FWHM	Field Angle	Cd/lm
F13402_ANGELINA-W	50	96	1.16



Beam Pattern



Intensity Distribution Curve

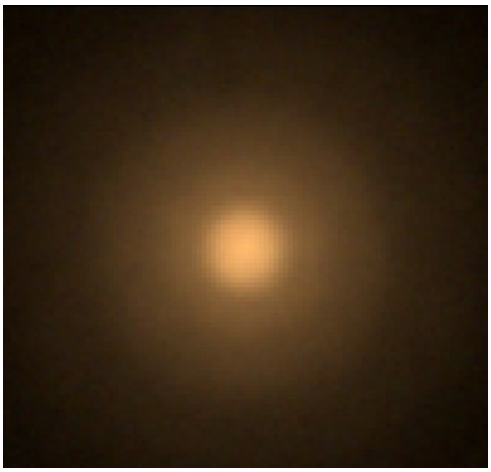


Illuminance Distribution

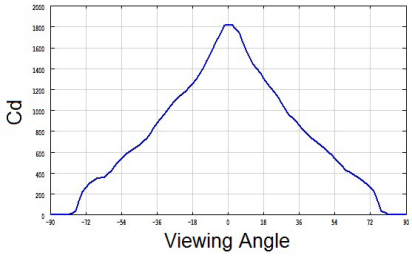
LedLink
Linking LEDs to The Real World

CXM-18

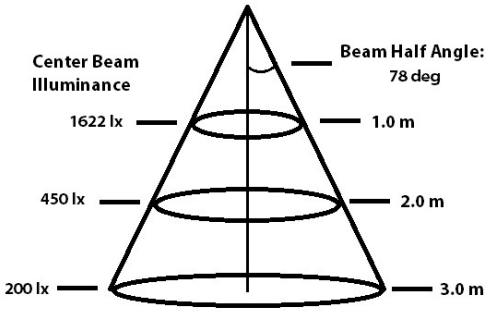
P/N	FWHM	Field Angle	Cd/lm
LL01ED-ALA24R39	72	150	0.6



Beam Pattern



Intensity Distribution Curve



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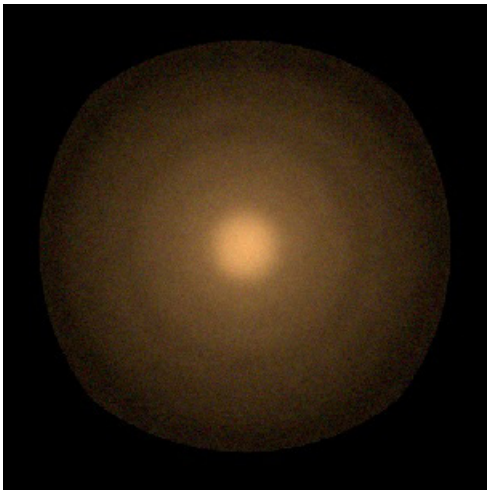
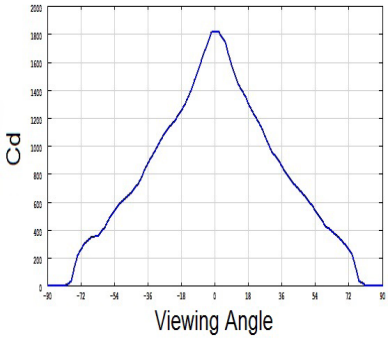
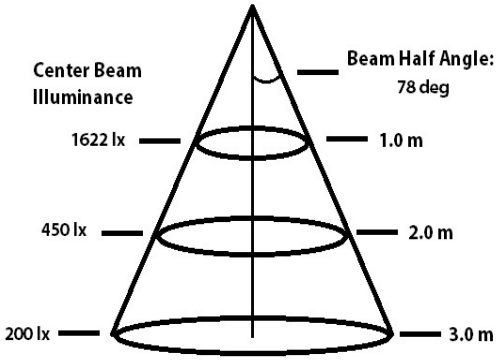
P/N	FWHM	Field Angle	Cd/lm
LL01SP-ATH15R49	22	160	2.06



Beam Pattern



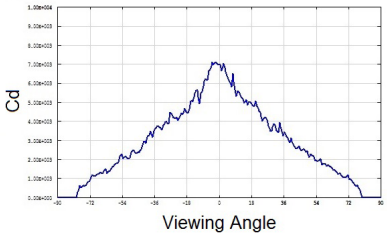
Intensity Distribution Curve



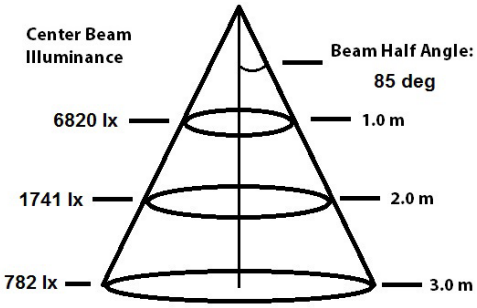
Illuminance Distribution

P/N	FWHM	Field Angle	Cd/lm
LL01ED-ALA24R49	64	150	0.62

Beam Pattern



Intensity Distribution Curve



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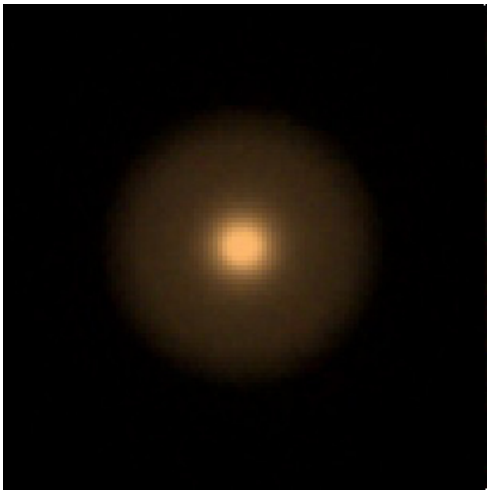
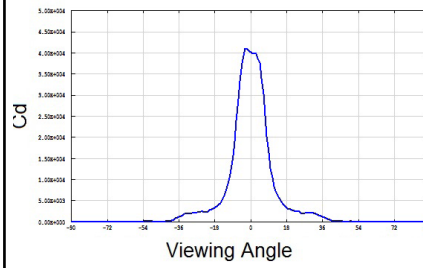
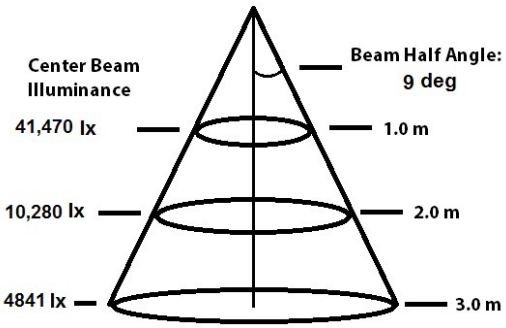
P/N	FWHM	Field Angle	Cd/lm
F13662_Angela S-B	16.6	34	6.66

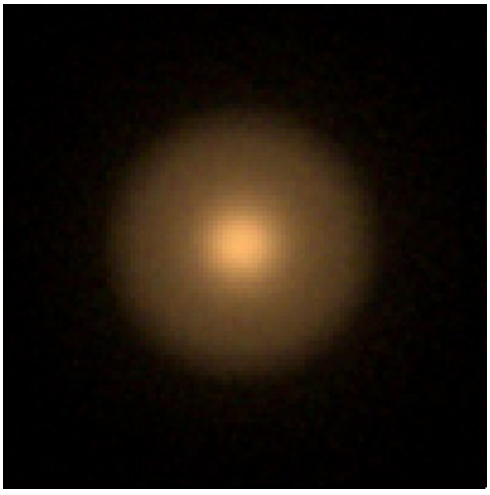


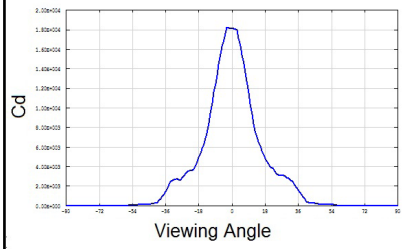


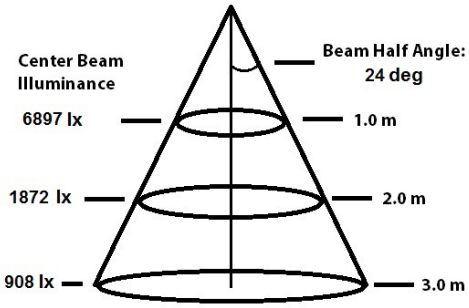


Beam Pattern	Intensity Distribution Curve	Illuminance Distribution

P/N	FWHM	Field Angle	Cd/lm
F13663_Angela M-B	25	68	3.0







Beam Pattern	Intensity Distribution Curve	Illuminance Distribution

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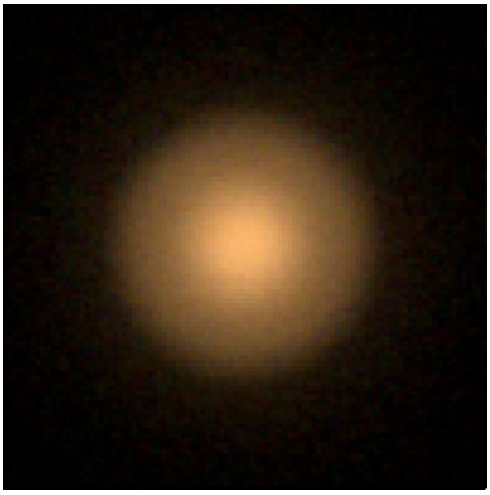
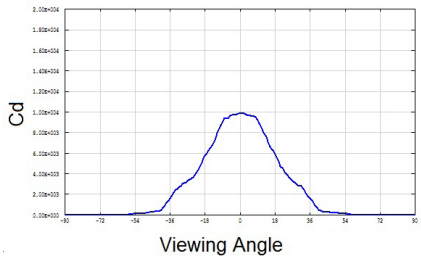
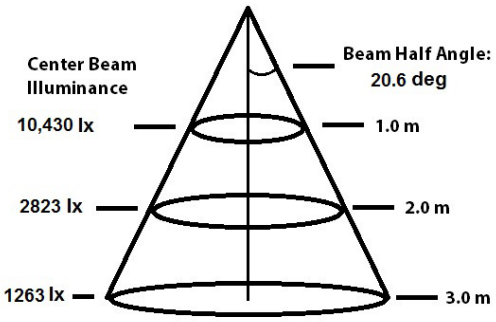
P/N	FWHM	Field Angle	Cd/lm
F13664_Angela W-B	44	72	1.66

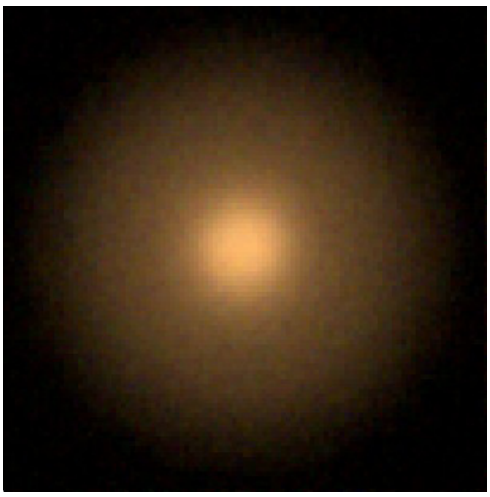


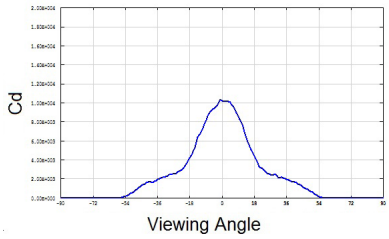


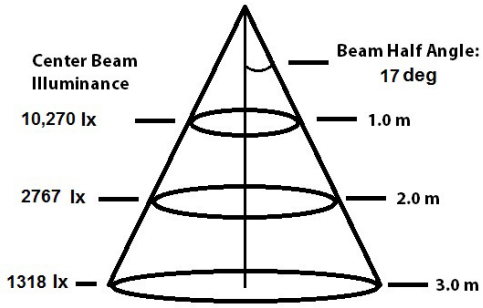


Beam Pattern	Intensity Distribution Curve	Illuminance Distribution

P/N	FWHM	Field Angle	Cd/lm
F13659_Angelina S-B	33	92	1.74







Beam Pattern	Intensity Distribution Curve	Illuminance Distribution

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