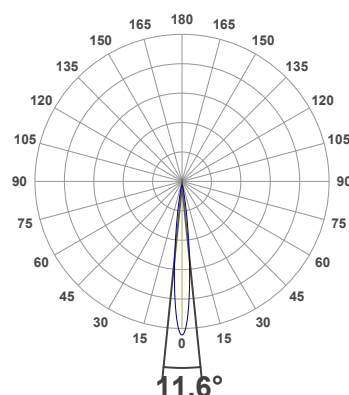
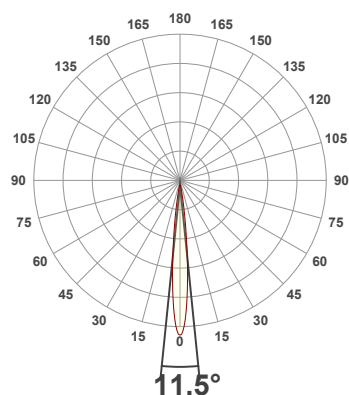




PRODUCT INFORMATION

SERIAL NUMBER:	LL-20190828-561-BMS
DATE OF MEASUREMENT:	2019-08-28
SIZE (dia. x h):	298 mm x 59.5 mm

ANGULAR DISTRIBUTION AT C0/180 | ANGULAR DISTRIBUTION AT C90/270 | LIGHT OUTPUT DATA

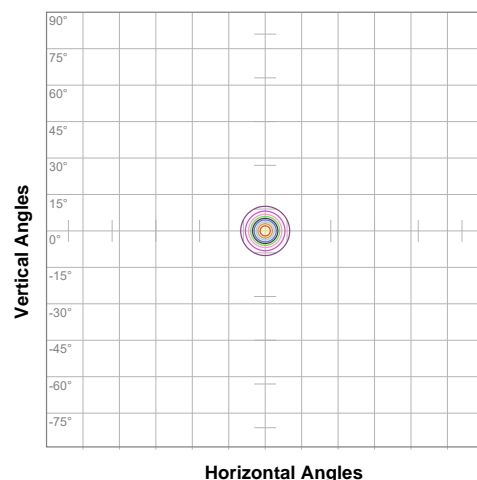


TOTAL LUMEN OUTPUT:	220 lm
EFFICACY:	11 lm/W
PEAK INTENSITY:	3645 cd
COLOR RENDERING INDEX (CRI):	N/A
COLOR TEMPERATURE (CCT):	N/A
FIDELITY INDEX (TM30Rf):	N/A
GAMUT INDEX (TM30Rg):	N/A

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) C0/180:	11.5°
BEAM ANGLE (FWHM) C90/270:	11.6°
FIELD ANGLE (10%) C0/180:	22.7°
FIELD ANGLE (10%) C90/270:	22.5°
NUMBER OF PLANES MEASURED:	12

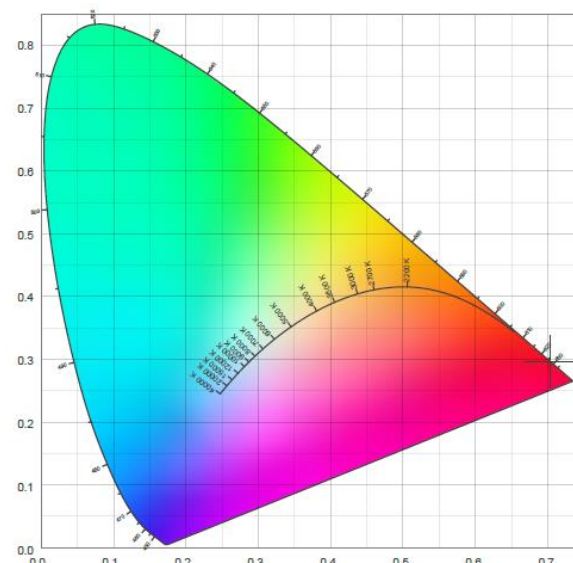
ISOCANDELA DIAGRAM



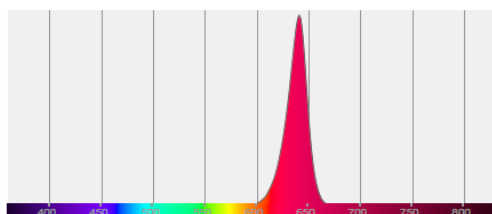
10%	364 cd
20%	728 cd
30%	1092 cd
40%	1457 cd
50%	1821 cd
60%	2185 cd
70%	2549 cd
80%	2913 cd
90%	3277 cd

INPUT POWER:	19.2 W
POWER FACTOR:	1.0
OPTICAL POWER:	1.62 mW
PEAK WAVELENGTH:	641 nm
DOMINANT WAVELENGTH:	627 nm

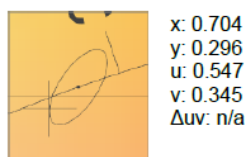
CIE 1931

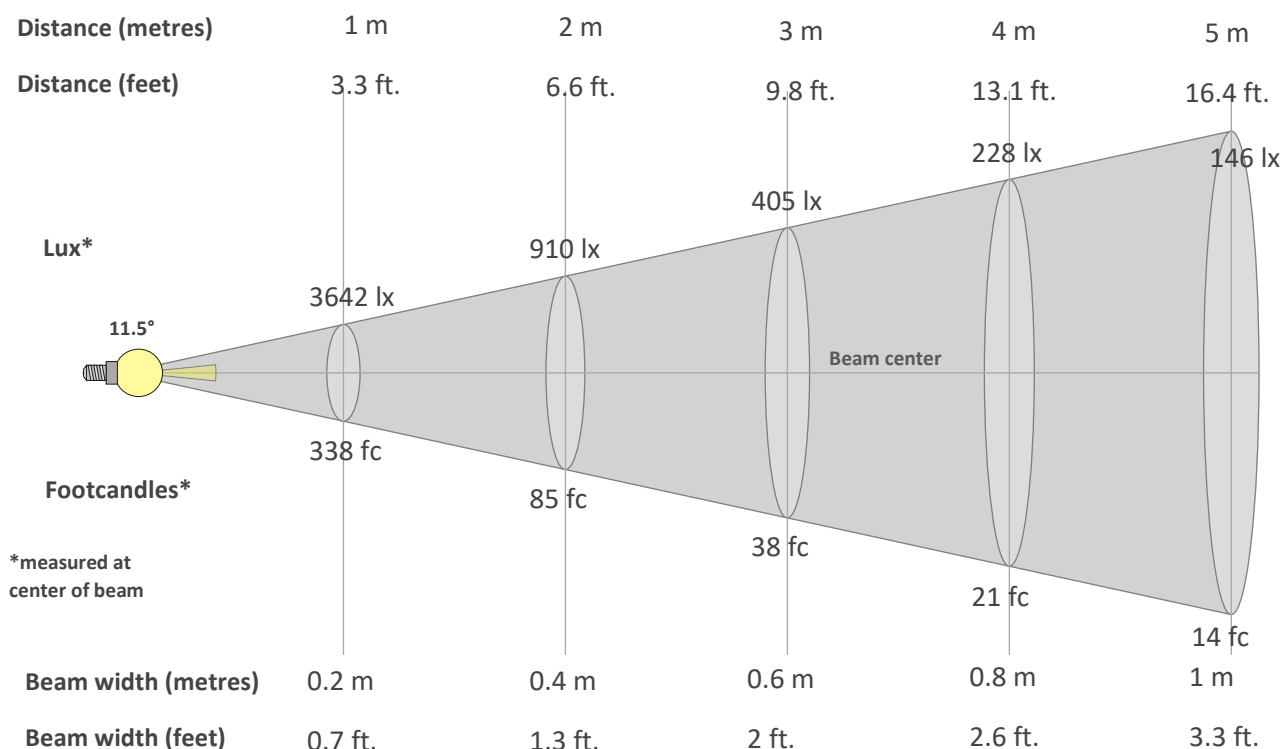


SPECTRAL DISTRIBUTION



CIE 1931 ZOOM



BEAM DETAILS

Beam intensity from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
3642lx	910lx	405lx	228lx	146lx	101lx	74lx	57lx	45lx	36lx	30lx	25lx	22lx	19lx	16lx	14lx	13lx	11lx	10lx	9lx
338.3fc	84.6fc	37.6fc	21.1fc	13.5fc	9.4fc	6.9fc	5.3fc	4.2fc	3.4fc	2.8fc	2.3fc	2fc	1.7fc	1.5fc	1.3fc	1.2fc	1fc	0.9fc	0.8fc

Intensity in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3642	3564	3344	3007	2595	2153	1719	1326	999	740	542	401	303	235	187	154	130	112	99	87
100%	98%	92%	83%	71%	59%	47%	36%	27%	20%	15%	11%	8%	6%	5%	4%	4%	3%	3%	2%

Intensity in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3642	3567	3352	3021	2614	2173	1737	1339	1005	740	538	393	294	227	181	149	127	111	98	86
100%	98%	92%	83%	72%	60%	48%	37%	28%	20%	15%	11%	8%	6%	5%	4%	3%	3%	3%	2%

Intensity in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3642	3564	3344	3007	2595	2153	1719	1326	999	740	542	401	303	235	187	154	130	112	99	87
100%	98%	92%	83%	71%	59%	47%	36%	27%	20%	15%	11%	8%	6%	5%	4%	4%	3%	3%	2%

Intensity in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3642	3567	3352	3021	2614	2173	1737	1339	1005	740	538	393	294	227	181	149	127	111	98	86
100%	98%	92%	83%	72%	60%	48%	37%	28%	20%	15%	11%	8%	6%	5%	4%	3%	3%	3%	2%