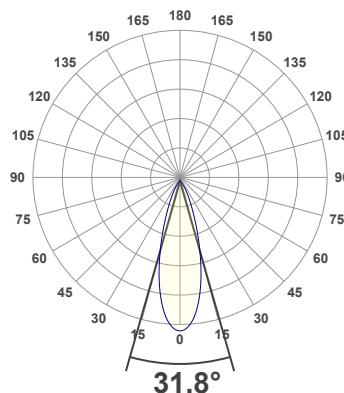
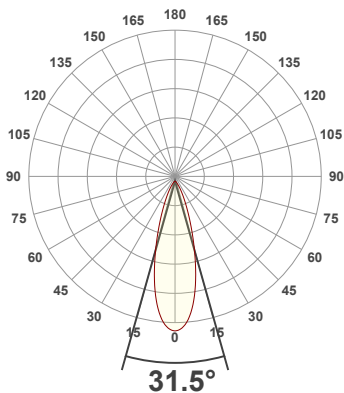




PRODUCT INFORMATION

SERIAL NUMBER:	LL-20190828-567-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

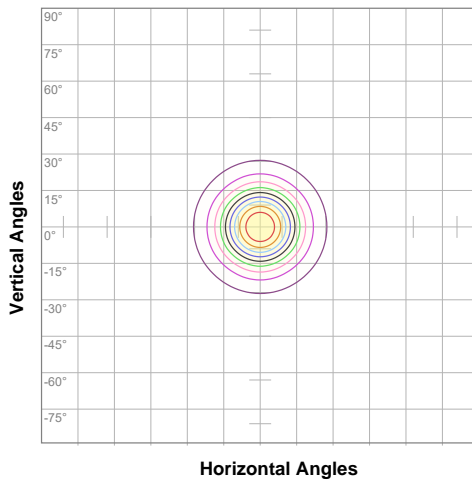


TOTAL LUMEN OUTPUT:	531 lm
EFFICACY:	28 lm/W
PEAK INTENSITY:	1361 cd
COLOR RENDERING INDEX (CRI):	79.9
COLOR TEMPERATURE (CCT):	2988
FIDELITY INDEX (TM30Rf):	82.0
GAMUT INDEX (TM30Rg):	96.5

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) C0/180:	31.5°
BEAM ANGLE (FWHM) C90/270:	31.8°
FIELD ANGLE (10%) C0/180:	60.9°
FIELD ANGLE (10%) C90/270:	61.1°
NUMBER OF PLANES MEASURED:	12

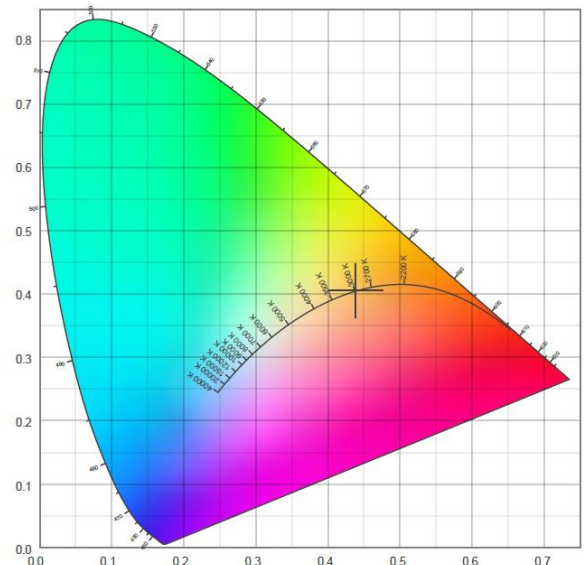
ISOCANDELA DIAGRAM



10%	136 cd
20%	272 cd
30%	408 cd
40%	544 cd
50%	680 cd
60%	816 cd
70%	952 cd
80%	1088 cd
90%	1225 cd

INPUT POWER:	19.2 W
POWER FACTOR:	1.0
OPTICAL POWER:	1.62 mW
PEAK WAVELENGTH:	601 nm
DOMINANT WAVELENGTH:	583 nm

CIE 1931

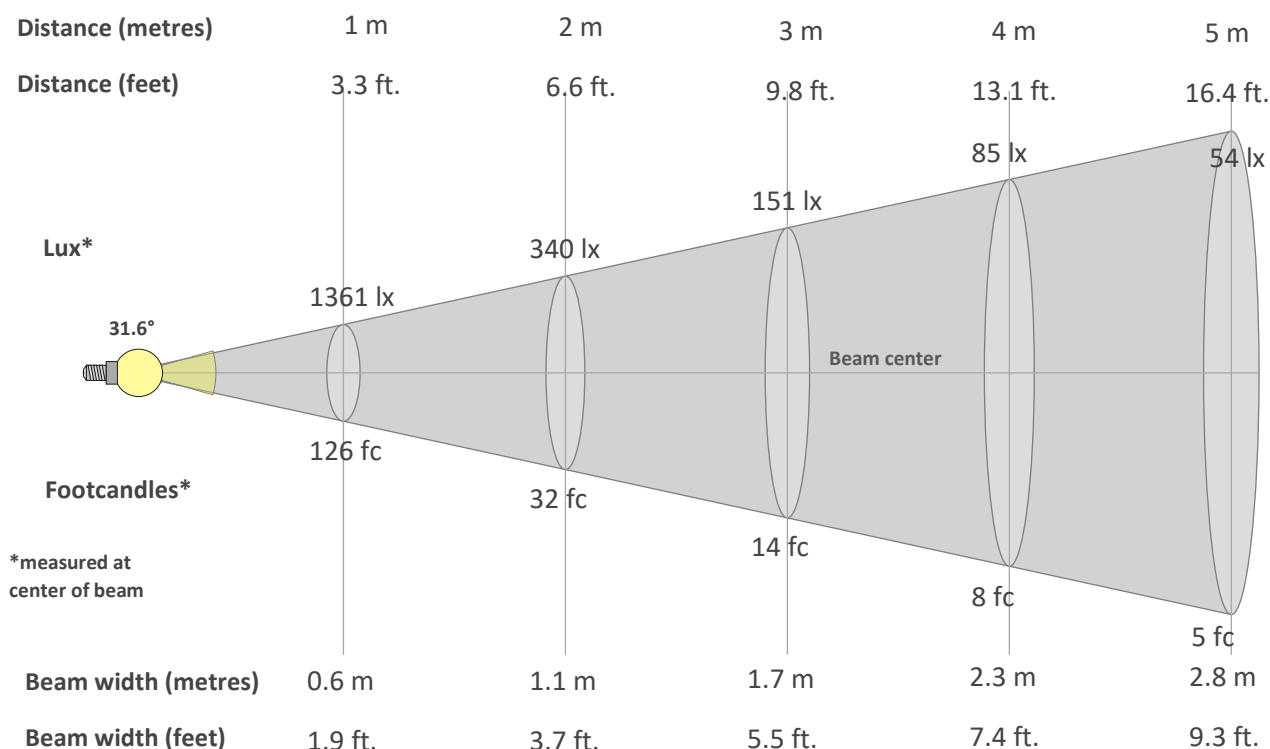


SPECTRAL DISTRIBUTION



CIE 1931 ZOOM

x: 0.439
y: 0.406
u: 0.251
v: 0.348
 $\Delta uv: 0.0004$

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
1361lx	340lx	151lx	85lx	54lx	38lx	28lx	21lx	17lx	14lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
126.4fc	31.6fc	14fc	7.9fc	5.1fc	3.5fc	2.6fc	2fc	1.6fc	1.3fc	1fc	0.9fc	0.7fc	0.6fc	0.6fc	0.5fc	0.4fc	0.4fc	0.4fc	0.3fc

Intensity in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1361	1350	1311	1248	1161	1051	926	793	664	545	440	353	281	224	179	143	115	93	74	60
100%	99%	96%	92%	85%	77%	68%	58%	49%	40%	32%	26%	21%	16%	13%	11%	8%	7%	5%	4%

Intensity in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1361	1349	1308	1244	1158	1051	931	803	675	554	447	357	283	226	179	144	117	94	76	61
100%	99%	96%	91%	85%	77%	68%	59%	50%	41%	33%	26%	21%	17%	13%	11%	9%	7%	6%	4%

Intensity in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1361	1350	1311	1248	1161	1051	926	793	664	545	440	353	281	224	179	143	115	93	74	60
100%	99%	96%	92%	85%	77%	68%	58%	49%	40%	32%	26%	21%	16%	13%	11%	8%	7%	5%	4%

Intensity in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1361	1349	1308	1244	1158	1051	931	803	675	554	447	357	283	226	179	144	117	94	76	61
100%	99%	96%	91%	85%	77%	68%	59%	50%	41%	33%	26%	21%	17%	13%	11%	9%	7%	6%	4%