



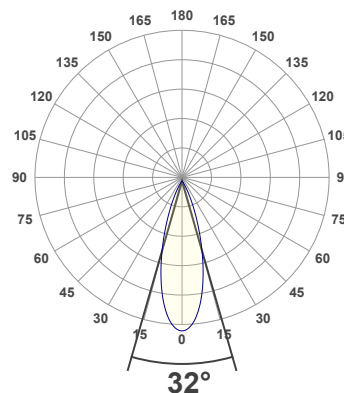
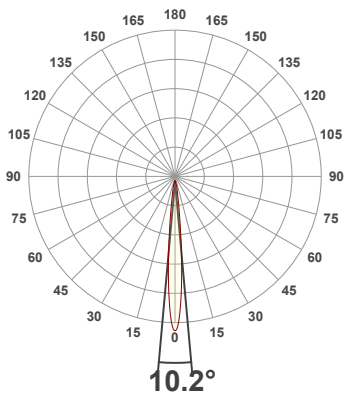
PRODUCT INFORMATION

SERIAL NUMBER: LL-20190823-542-BMS

DATE OF MEASUREMENT: 2019-08-23

SIZE (dia. x h): 298 mm x 59.5 mm

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

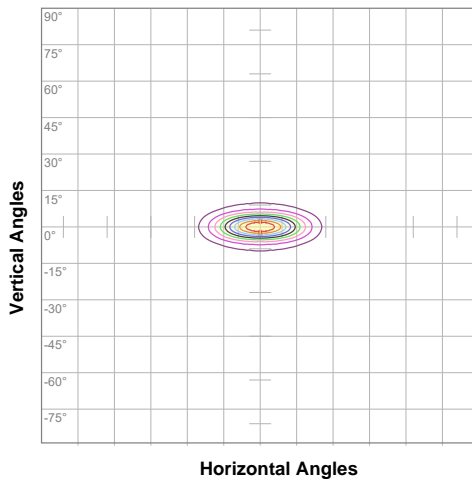


TOTAL LUMEN OUTPUT:	511 lm
EFFICACY:	27 lm/W
PEAK INTENSITY:	3654 cd
COLOR RENDERING INDEX (CRI):	79.9
COLOR TEMPERATURE (CCT):	2988
FIDELITY INDEX (TM30Rf):	82.0
GAMUT INDEX (TM30Rg):	96.5

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) C0/180:	10.2°
BEAM ANGLE (FWHM) C90/270:	32°
FIELD ANGLE (10%) C0/180:	22.1°
FIELD ANGLE (10%) C90/270:	56.4°
NUMBER OF PLANES MEASURED:	36

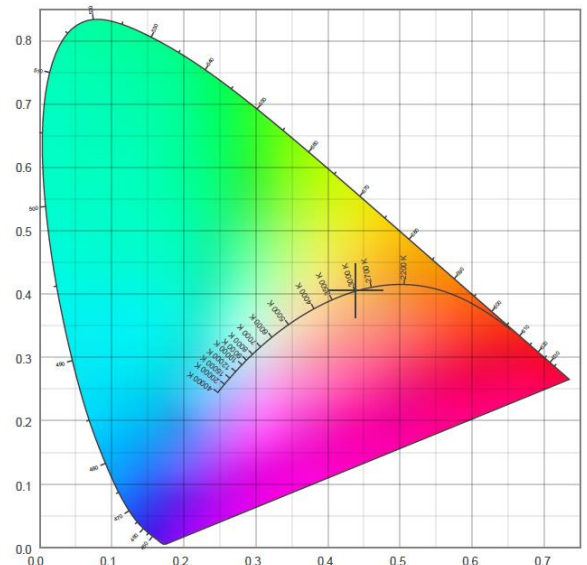
ISOCANDELA DIAGRAM



10%	365 cd
20%	730 cd
30%	1095 cd
40%	1460 cd
50%	1826 cd
60%	2191 cd
70%	2556 cd
80%	2921 cd
90%	3286 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



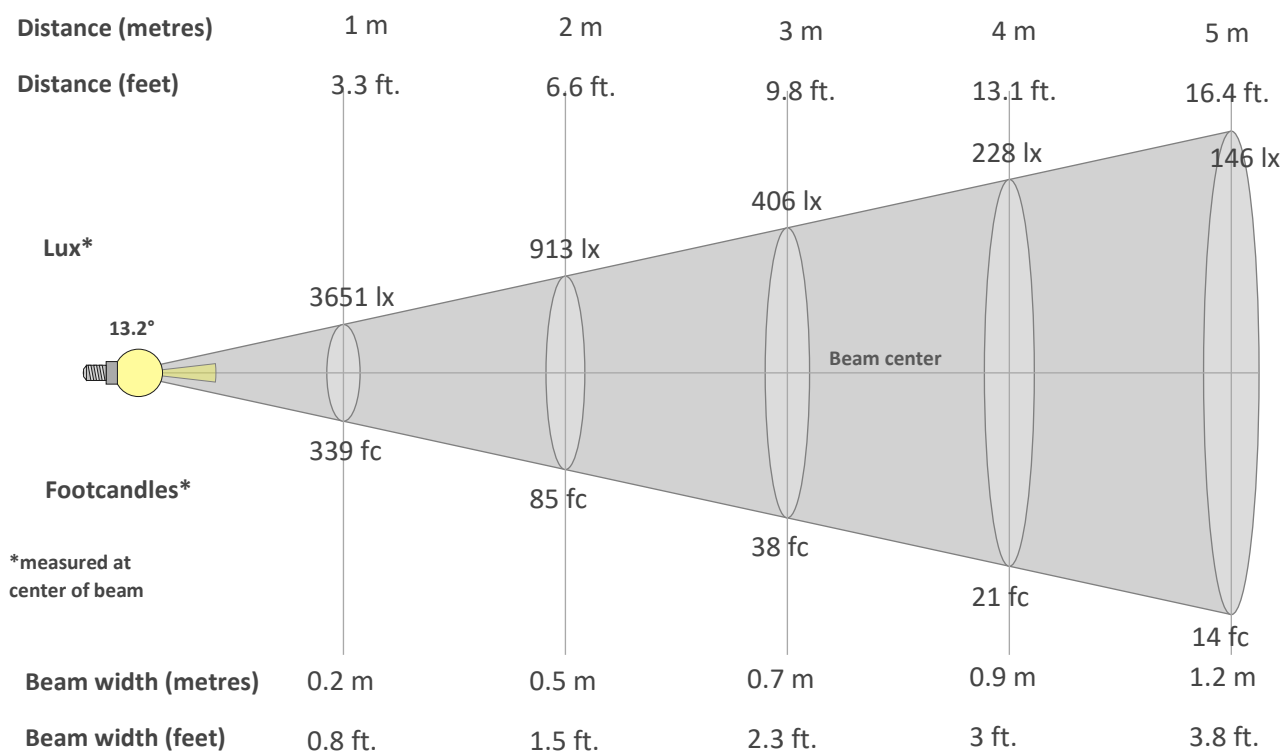
SPECTRAL DISTRIBUTION



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
3651lx	913lx	406lx	228lx	146lx	101lx	75lx	57lx	45lx	37lx	30lx	25lx	22lx	19lx	16lx	14lx	13lx	11lx	10lx	9lx
339.2fc	84.8fc	37.7fc	21.2fc	13.6fc	9.4fc	6.9fc	5.3fc	4.2fc	3.4fc	2.8fc	2.4fc	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°
3651	3552	3266	2850	2370	1879	1427	1058	784	591	458	367	305	261	229	204	185	167	151	133
100%	97%	89%	78%	65%	51%	39%	29%	21%	16%	13%	10%	8%	7%	6%	6%	5%	5%	4%	4%

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°
3651	3643	3618	3569	3507	3434	3335	3225	3105	2969	2824	2670	2508	2340	2171	1999	1830	1663	1500	1345
100%	100%	99%	98%	96%	94%	91%	88%	85%	81%	77%	73%	69%	64%	59%	55%	50%	46%	41%	37%

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°
3651	3552	3266	2850	2370	1879	1427	1058	784	591	458	367	305	261	229	204	185	167	151	133
100%	97%	89%	78%	65%	51%	39%	29%	21%	16%	13%	10%	8%	7%	6%	6%	5%	5%	4%	4%

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°
3651	3643	3618	3569	3507	3434	3335	3225	3105	2969	2824	2670	2508	2340	2171	1999	1830	1663	1500	1345
100%	100%	99%	98%	96%	94%	91%	88%	85%	81%	77%	73%	69%	64%	59%	55%	50%	46%	41%	37%