



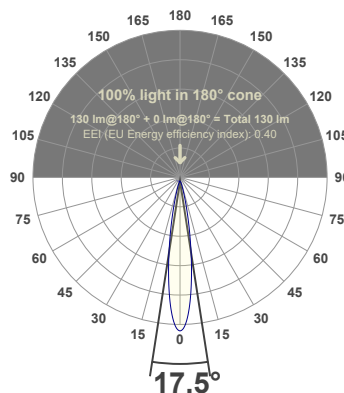
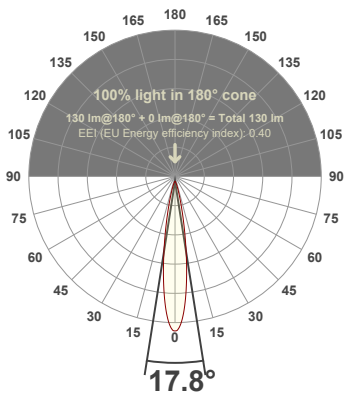
**PRODUCT INFORMATION**

SERIAL NUMBER: **LL-20190828-565-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**

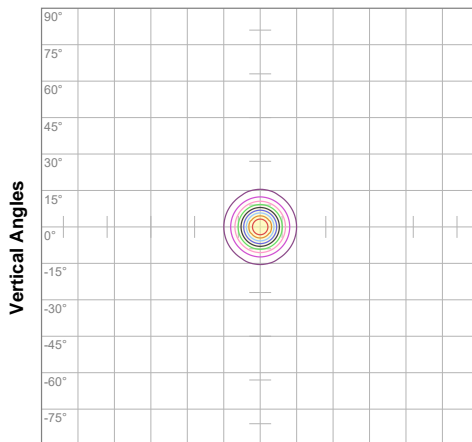


TOTAL LUMEN OUTPUT:	<b>130 lm</b>
EFFICACY:	<b>7 lm/W</b>
PEAK INTENSITY:	<b>1011 cd</b>
COLOR RENDERING INDEX (CRI):	<b>N/A</b>
COLOR TEMPERATURE (CCT):	<b>N/A</b>
FIDELITY INDEX (TM30Rf):	<b>N/A</b>
GAMUT INDEX (TM30Rg):	<b>N/A</b>

**BEAM OUTPUT DATA**

BEAM ANGLE (FWHM)   C0/180:	<b>17.8°</b>
BEAM ANGLE (FWHM)   C90/270:	<b>17.5°</b>
FIELD ANGLE (10%)   C0/180:	<b>34.5°</b>
FIELD ANGLE (10%)   C90/270:	<b>33.6°</b>
NUMBER OF PLANES MEASURED:	<b>12</b>

**ISOCANDELA DIAGRAM**

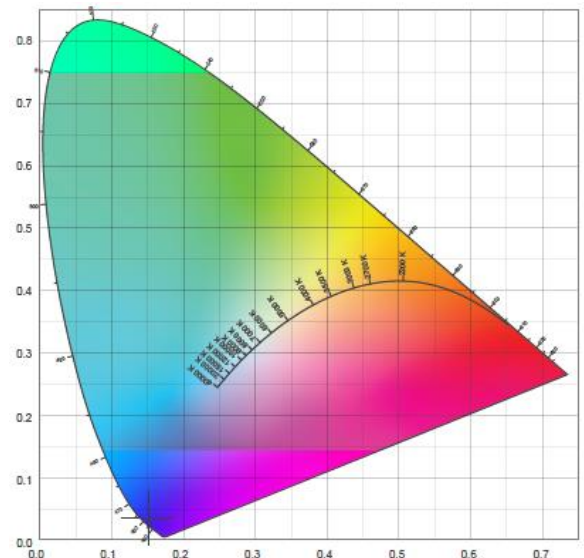


Horizontal Angles

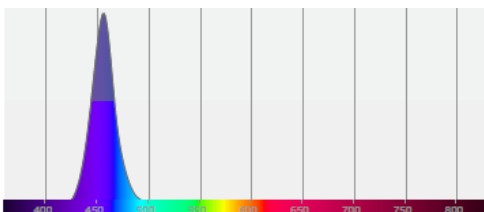
10%	<b>101 cd</b>
20%	<b>202 cd</b>
30%	<b>303 cd</b>
40%	<b>404 cd</b>
50%	<b>505 cd</b>
60%	<b>606 cd</b>
70%	<b>707 cd</b>
80%	<b>808 cd</b>
90%	<b>909 cd</b>

INPUT POWER:	<b>19.2 W</b>
POWER FACTOR:	<b>1.0</b>
OPTICAL POWER:	<b>2.79 mW</b>
PEAK WAVELENGTH:	<b>456 nm</b>
DOMINANT WAVELENGTH:	<b>459 nm</b>

**CIE 1931**



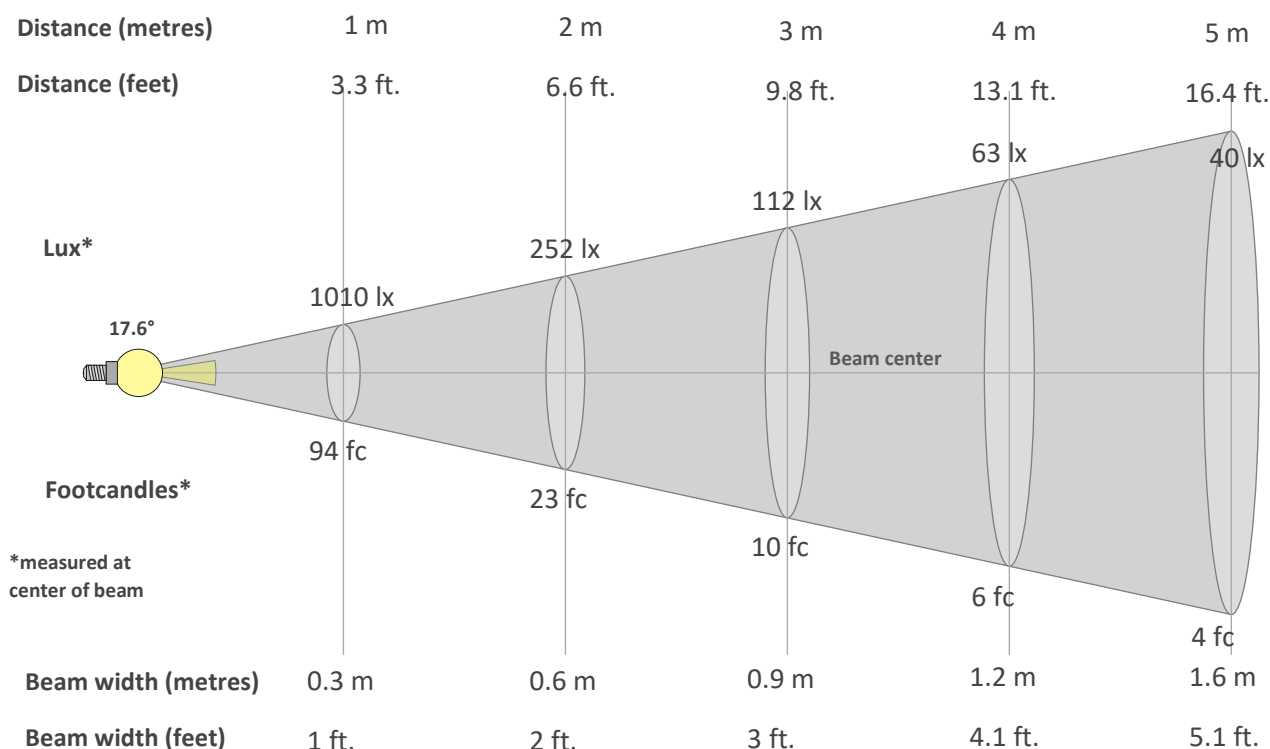
**SPECTRAL DISTRIBUTION**



**CIE 1931 ZOOM**



x: 0.151  
y: 0.036  
u: 0.193  
v: 0.068  
Δuv: n/a

**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
1010lx	252lx	112lx	63lx	40lx	28lx	21lx	16lx	12lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	3lx
93.8fc	23.5fc	10.4fc	5.9fc	3.8fc	2.6fc	1.9fc	1.5fc	1.2fc	0.9fc	0.8fc	0.7fc	0.6fc	0.5fc	0.4fc	0.4fc	0.3fc	0.3fc	0.3fc	0.2fc

**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°
1010	1001	976	933	878	811	736	657	576	497	422	354	292	240	196	159	130	106	88	73
100%	99%	97%	92%	87%	80%	73%	65%	57%	49%	42%	35%	29%	24%	19%	16%	13%	10%	9%	7%

**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°
1010	1002	974	931	874	806	730	648	567	487	412	342	281	228	184	148	119	97	80	66
100%	99%	96%	92%	87%	80%	72%	64%	56%	48%	41%	34%	28%	23%	18%	15%	12%	10%	8%	7%

**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°
1010	1001	976	933	878	811	736	657	576	497	422	354	292	240	196	159	130	106	88	73
100%	99%	97%	92%	87%	80%	73%	65%	57%	49%	42%	35%	29%	24%	19%	16%	13%	10%	9%	7%

**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°
1010	1002	974	931	874	806	730	648	567	487	412	342	281	228	184	148	119	97	80	66
100%	99%	96%	92%	87%	80%	72%	64%	56%	48%	41%	34%	28%	23%	18%	15%	12%	10%	8%	7%