



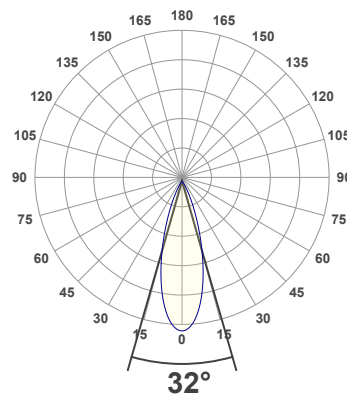
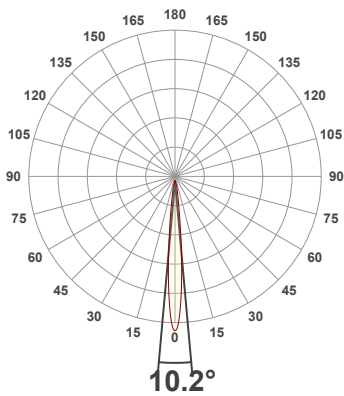
PRODUCT INFORMATION

| | |
|----------------------|---------------------|
| 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

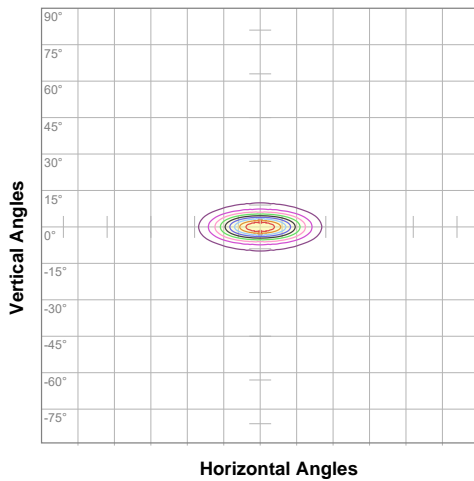


| | |
|------------------------------|---------|
| TOTAL LUMEN OUTPUT: | 385 lm |
| EFFICACY: | 20 lm/W |
| PEAK INTENSITY: | 2750 cd |
| COLOR RENDERING INDEX (CRI): | N/A |
| COLOR TEMPERATURE (CCT): | N/A |
| FIDELITY INDEX (TM30Rf): | N/A |
| GAMUT INDEX (TM30Rg): | N/A |

BEAM OUTPUT DATA

| | |
|------------------------------|-------|
| BEAM ANGLE (FWHM) C0/180: | 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 |

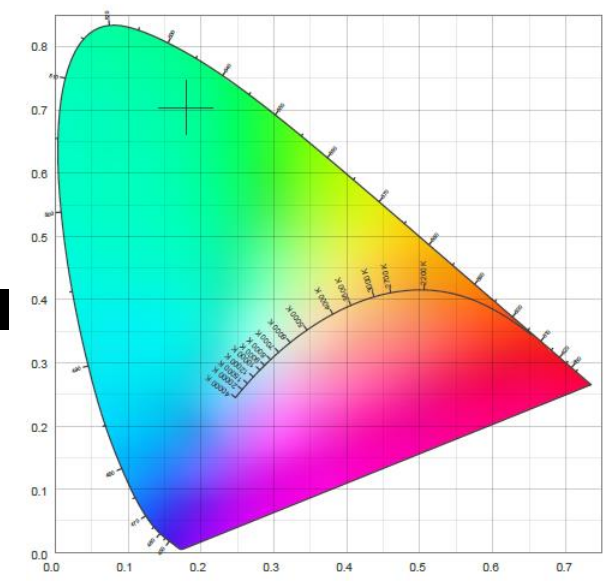
ISOCANDELA DIAGRAM



| | |
|-----|---------|
| 10% | 275 cd |
| 20% | 550 cd |
| 30% | 824 cd |
| 40% | 1099 cd |
| 50% | 1374 cd |
| 60% | 1649 cd |
| 70% | 1924 cd |
| 80% | 2199 cd |
| 90% | 2473 cd |

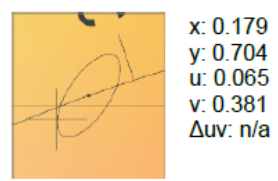
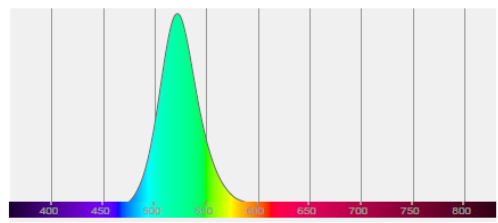
| | |
|----------------------|----------|
| INPUT POWER: | 19.2 W |
| POWER FACTOR: | 1.0 |
| OPTICAL POWER: | 0.849 mW |
| PEAK WAVELENGTH: | 522 nm |
| DOMINANT WAVELENGTH: | 528 nm |

CIE 1931

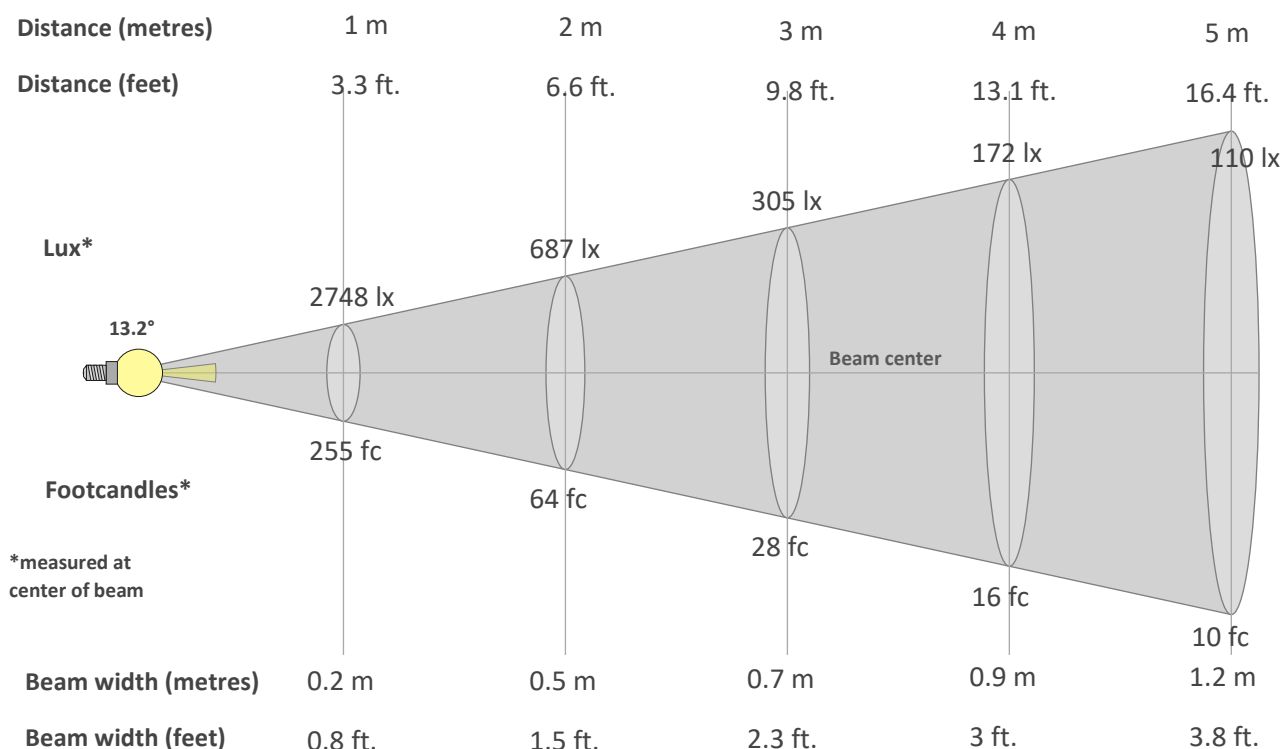


SPECTRAL DISTRIBUTION

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 |
| 2748lx | 687lx | 305lx | 172lx | 110lx | 76lx | 56lx | 43lx | 34lx | 27lx | 23lx | 19lx | 16lx | 14lx | 12lx | 11lx | 10lx | 8lx | 8lx | 7lx |
| 255.3fc | 63.8fc | 28.4fc | 16fc | 10.2fc | 7.1fc | 5.2fc | 4fc | 3.2fc | 2.6fc | 2.1fc | 1.8fc | 1.5fc | 1.3fc | 1.1fc | 1fc | 0.9fc | 0.8fc | 0.7fc | 0.6fc |

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° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2748 | 2674 | 2458 | 2146 | 1784 | 1414 | 1074 | 796 | 590 | 445 | 345 | 276 | 229 | 196 | 172 | 154 | 139 | 126 | 113 | 100 |
| 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2748 | 2742 | 2723 | 2686 | 2640 | 2585 | 2510 | 2427 | 2337 | 2235 | 2126 | 2010 | 1888 | 1762 | 1634 | 1505 | 1377 | 1252 | 1129 | 1012 |
| 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° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2748 | 2674 | 2458 | 2146 | 1784 | 1414 | 1074 | 796 | 590 | 445 | 345 | 276 | 229 | 196 | 172 | 154 | 139 | 126 | 113 | 100 |
| 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2748 | 2742 | 2723 | 2686 | 2640 | 2585 | 2510 | 2427 | 2337 | 2235 | 2126 | 2010 | 1888 | 1762 | 1634 | 1505 | 1377 | 1252 | 1129 | 1012 |
| 100% | 100% | 99% | 98% | 96% | 94% | 91% | 88% | 85% | 81% | 77% | 73% | 69% | 64% | 59% | 55% | 50% | 46% | 41% | 37% |