

15 Hex Bar IP



Light Efficiency:

26 Lumen/Watt

Output: 2700 lm

Light Quality:

CRI: 58.6

Peak: 6085 cd

Color Temperature:

10917 K

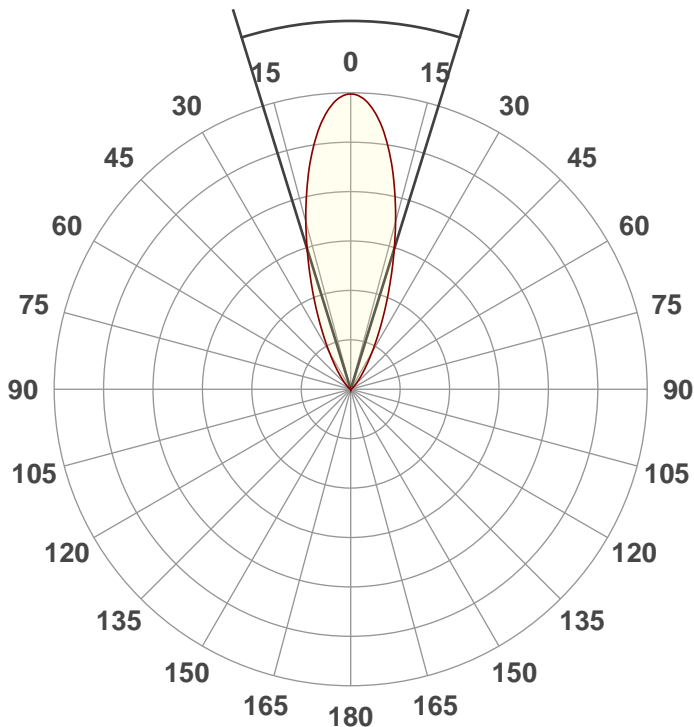
Power: 103.3 W

PF: 1.0



Beam Angle

34.4°



Test:

w/ Diffuser Full On No UV

Date:

8/21/2019

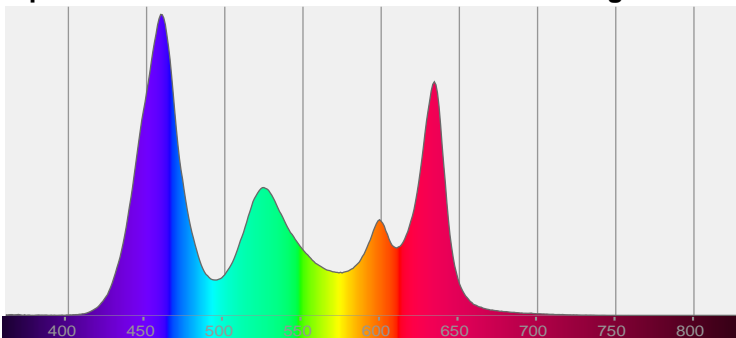
Note:



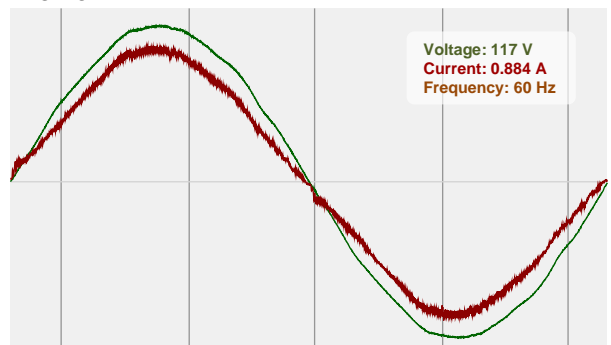
CIE 1931
x: 0.293
y: 0.254

Spectra

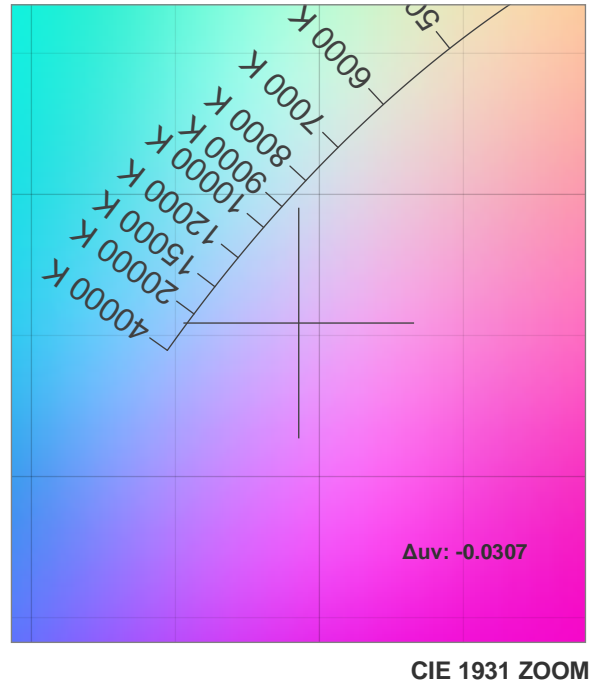
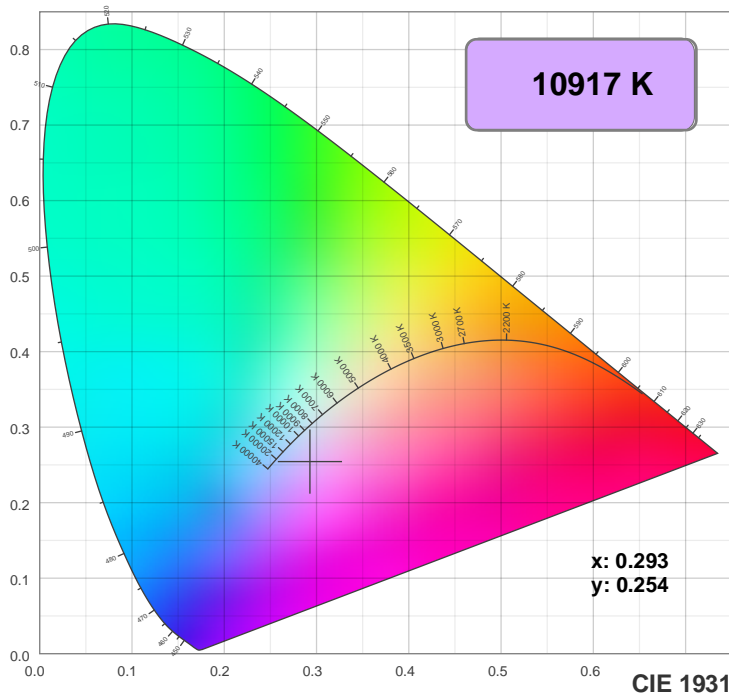
Dominant Wavelength: 360nm



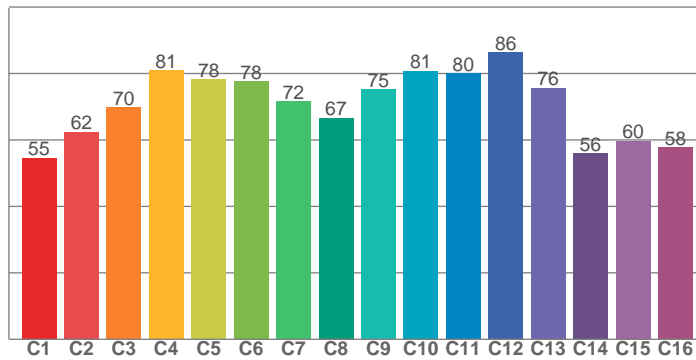
Power



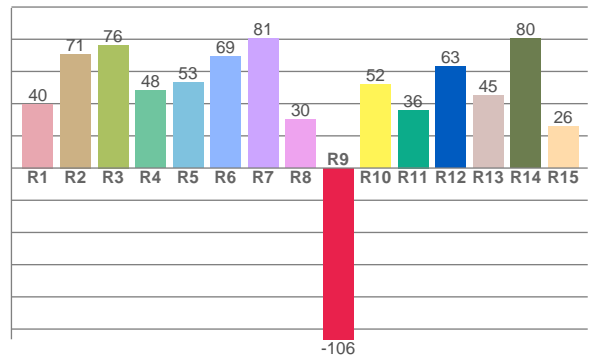
Color Details



TM30: 72.0



CRI: 58.6 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|
| 39.8 | 70.9 | 76.4 | 48.4 | 53.1 | 69.3 | 80.5 | 30.2 | -106.4 | 51.9 | 36.0 | 62.9 | 45.1 | 80.4 | 25.8 |

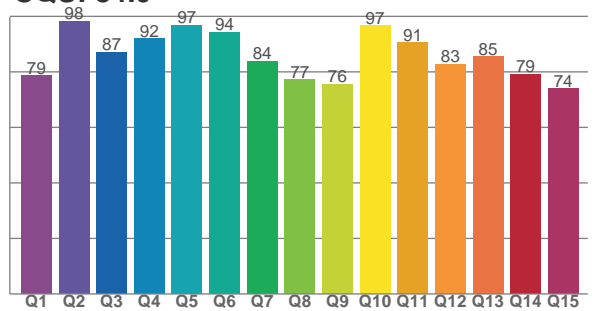
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 54.7 | 62.5 | 69.8 | 80.9 | 78.2 | 77.7 | 71.6 | 66.7 | 75.2 | 80.8 | 80.0 | 86.4 | 75.7 | 55.9 | 59.7 | 57.7 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.7 | 98.2 | 87.1 | 91.9 | 96.9 | 94.3 | 83.8 | 77.3 | 75.6 | 96.7 | 90.6 | 82.8 | 85.5 | 79.2 | 74.0 |

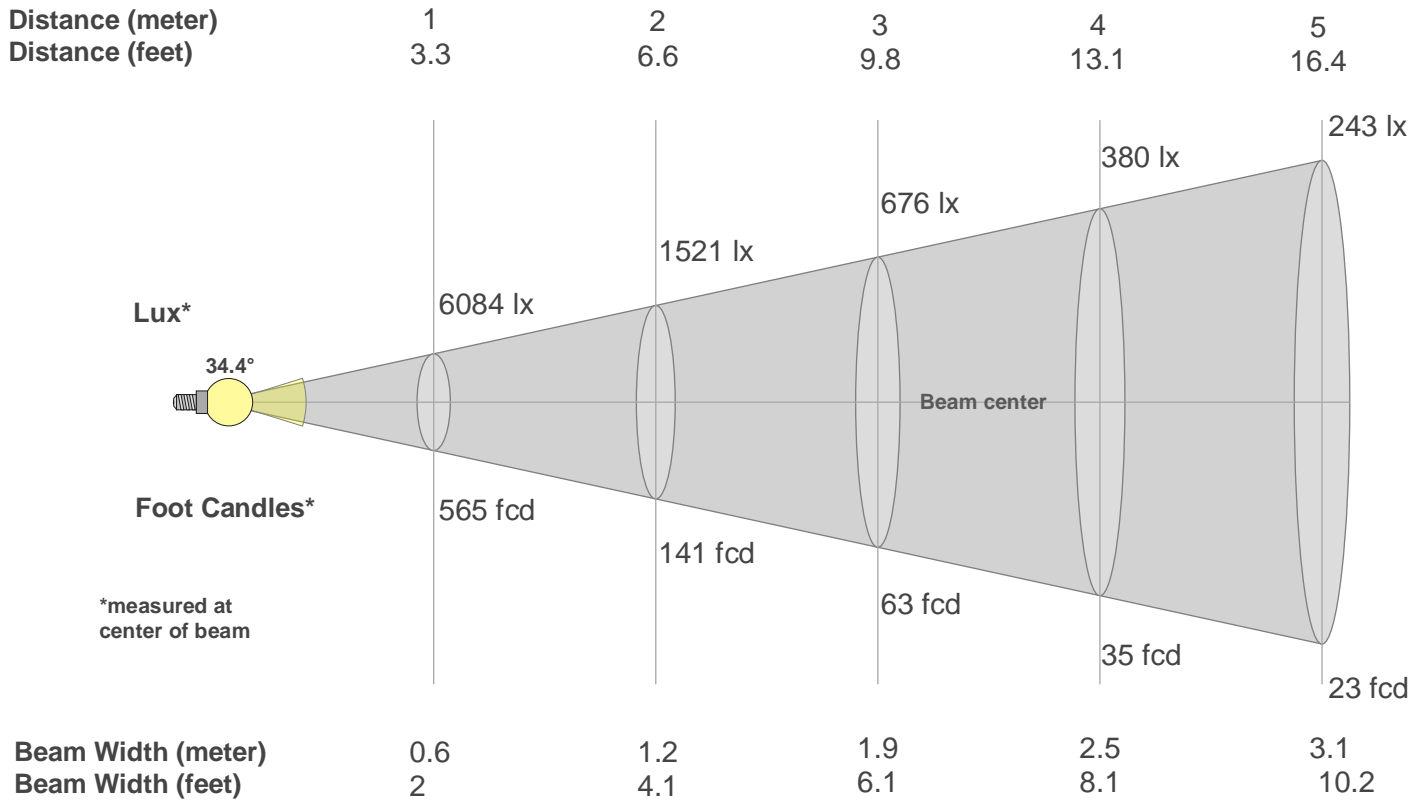
CQS: 84.0



Color Parameters

| Color Temperature | Color Rendering Index | Red Component | Color Fidelity | Color Gamut | Color Quality Scale | Color Coordinate CIE 1931 | Color Coordinate CIE 1931 | Color Coordinate | Color Coordinate | Color Deviation from Black Body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|------------------|------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | x | y | u | v | Δuv |
| 10917 K | 58.6 | -106.4 | 72.0 | 114.0 | 84.0 | 0.293 | 0.254 | 0.214 | 0.279 | -0.0307 |

Beam Details



Beam Intensities from 1-20m

| m | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-----|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ft | 3.3 | 6.6 | 9.8 | 13.1 | 16.4 | 19.7 | 23 | 26.2 | 29.5 | 32.8 | 36.1 | 39.4 | 42.7 | 45.9 | 49.2 | 52.5 | 55.8 | 59.1 | 62.3 | 65.6 |
| lx | 6084 | 1521 | 676 | 380 | 243 | 169 | 124 | 95 | 75 | 61 | 50 | 42 | 36 | 31 | 27 | 24 | 21 | 19 | 17 | 15 |
| fcd | 565.2 | 141.3 | 62.8 | 35.3 | 22.6 | 15.7 | 11.5 | 8.8 | 7 | 5.7 | 4.7 | 3.9 | 3.3 | 2.9 | 2.5 | 2.2 | 2 | 1.7 | 1.6 | 1.4 |

Intensities in 0° C-plane

| 0° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 6084 | 6025 | 5851 | 5575 | 5211 | 4786 | 4312 | 3826 | 3332 | 2862 | 2419 | 2022 | 1666 | 1358 | 1099 | 878 | 701 | 556 | 439 | 346 |
| 100% | 99% | 96% | 92% | 86% | 79% | 71% | 63% | 55% | 47% | 40% | 33% | 27% | 22% | 18% | 14% | 12% | 9% | 7% | 6% |

Intensities in 90° C-plane

| 0° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 6084 | 6025 | 5851 | 5575 | 5211 | 4786 | 4312 | 3826 | 3332 | 2862 | 2419 | 2022 | 1666 | 1358 | 1099 | 878 | 701 | 556 | 439 | 346 |
| 100% | 99% | 96% | 92% | 86% | 79% | 71% | 63% | 55% | 47% | 40% | 33% | 27% | 22% | 18% | 14% | 12% | 9% | 7% | 6% |

Intensities in 180° C-plane

| 0° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 6084 | 6027 | 5854 | 5580 | 5217 | 4791 | 4317 | 3828 | 3334 | 2862 | 2416 | 2017 | 1662 | 1355 | 1095 | 876 | 697 | 552 | 435 | 344 |
| 100% | 99% | 96% | 92% | 86% | 79% | 71% | 63% | 55% | 47% | 40% | 33% | 27% | 22% | 18% | 14% | 11% | 9% | 7% | 6% |

Intensities in 270° C-plane

| 0° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 6084 | 6027 | 5854 | 5580 | 5217 | 4791 | 4317 | 3828 | 3334 | 2862 | 2416 | 2017 | 1662 | 1355 | 1095 | 876 | 697 | 552 | 435 | 344 |
| 100% | 99% | 96% | 92% | 86% | 79% | 71% | 63% | 55% | 47% | 40% | 33% | 27% | 22% | 18% | 14% | 11% | 9% | 7% | 6% |

| Beam Angle 50% | Field Angle 10% | Cutoff Angle 2,5% | Intensity Ratio in 120° Cone | Intensity Ratio in 90° Cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 34.4° | 66.5° | 89.6° | 99.2% | 95.8% |