

Encore LP 12IP



Light Efficiency:

32 Lumen/Watt

Light Quality:

CRI: 84.4

Color Temperature:

5362 K

Output: 4673 lm

Peak: 132164 cd

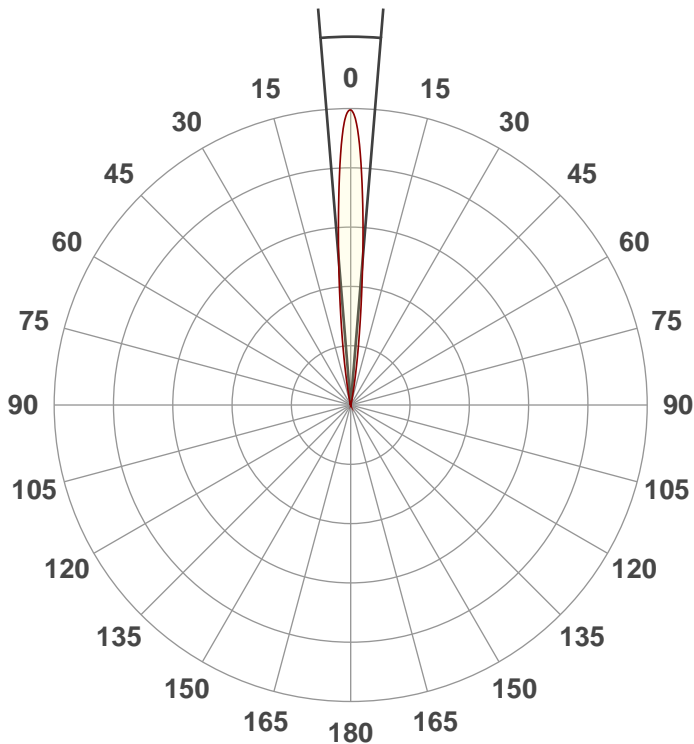
Power: 145.7 W

PF: 0.99



Beam Angle

9.4°



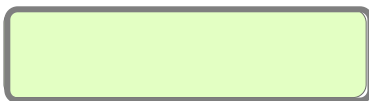
Test:

CRI

Date:

8/3/2021

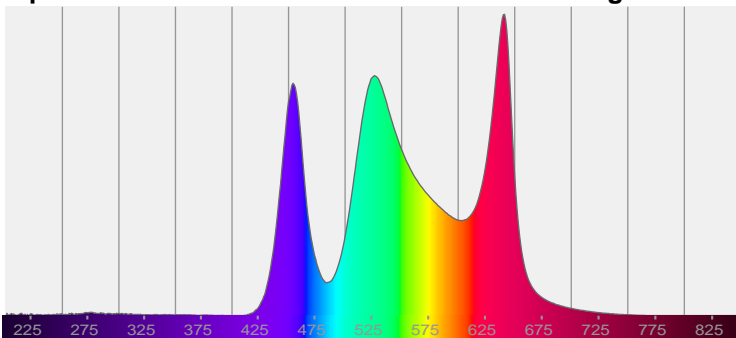
Note:



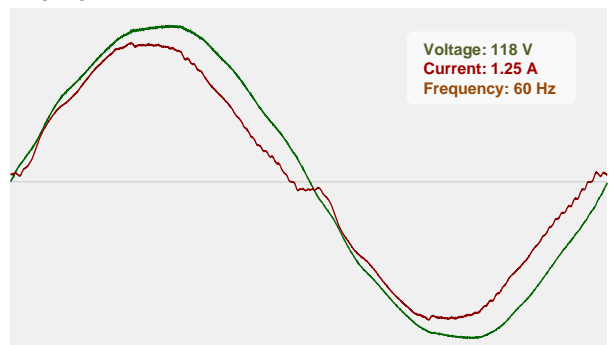
CIE 1931
x: 0.337
y: 0.386

Spectra

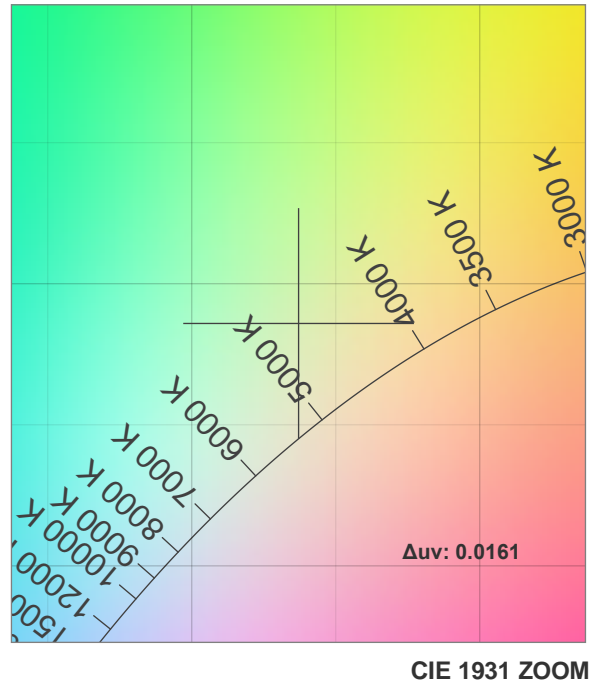
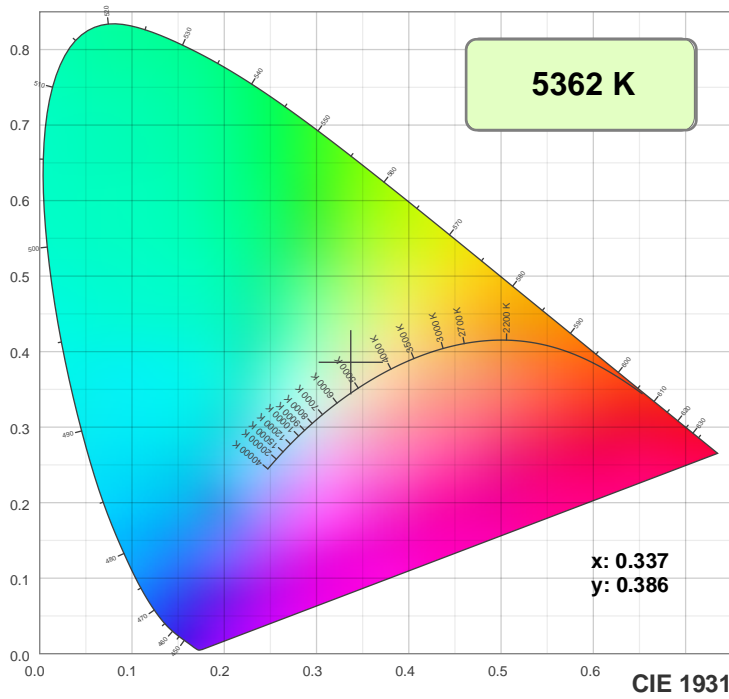
Dominant Wavelength: 567nm



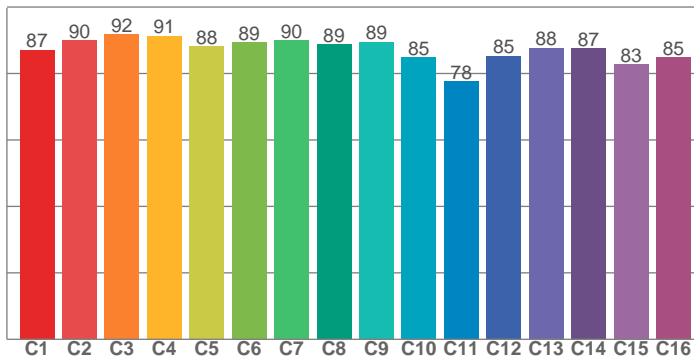
Power



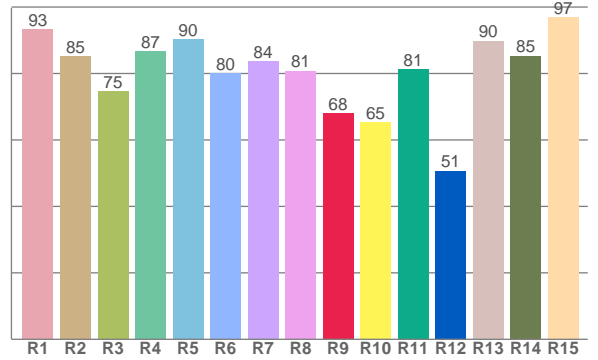
Color Details



TM30: 87.3



CRI: 84.4 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93.4 | 85.2 | 74.6 | 86.7 | 90.4 | 80.1 | 83.8 | 80.8 | 67.9 | 65.3 | 81.3 | 50.7 | 89.8 | 85.3 | 97.0 |

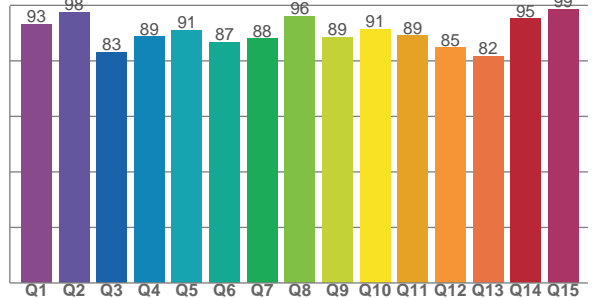
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 87.1 | 89.9 | 91.8 | 91.4 | 88.1 | 89.4 | 89.9 | 88.7 | 89.4 | 84.8 | 77.6 | 85.3 | 87.7 | 87.5 | 82.8 | 84.8 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93.3 | 97.6 | 83.2 | 88.6 | 91.1 | 86.8 | 87.9 | 96.1 | 88.6 | 91.5 | 89.0 | 84.7 | 81.6 | 95.2 | 98.6 |

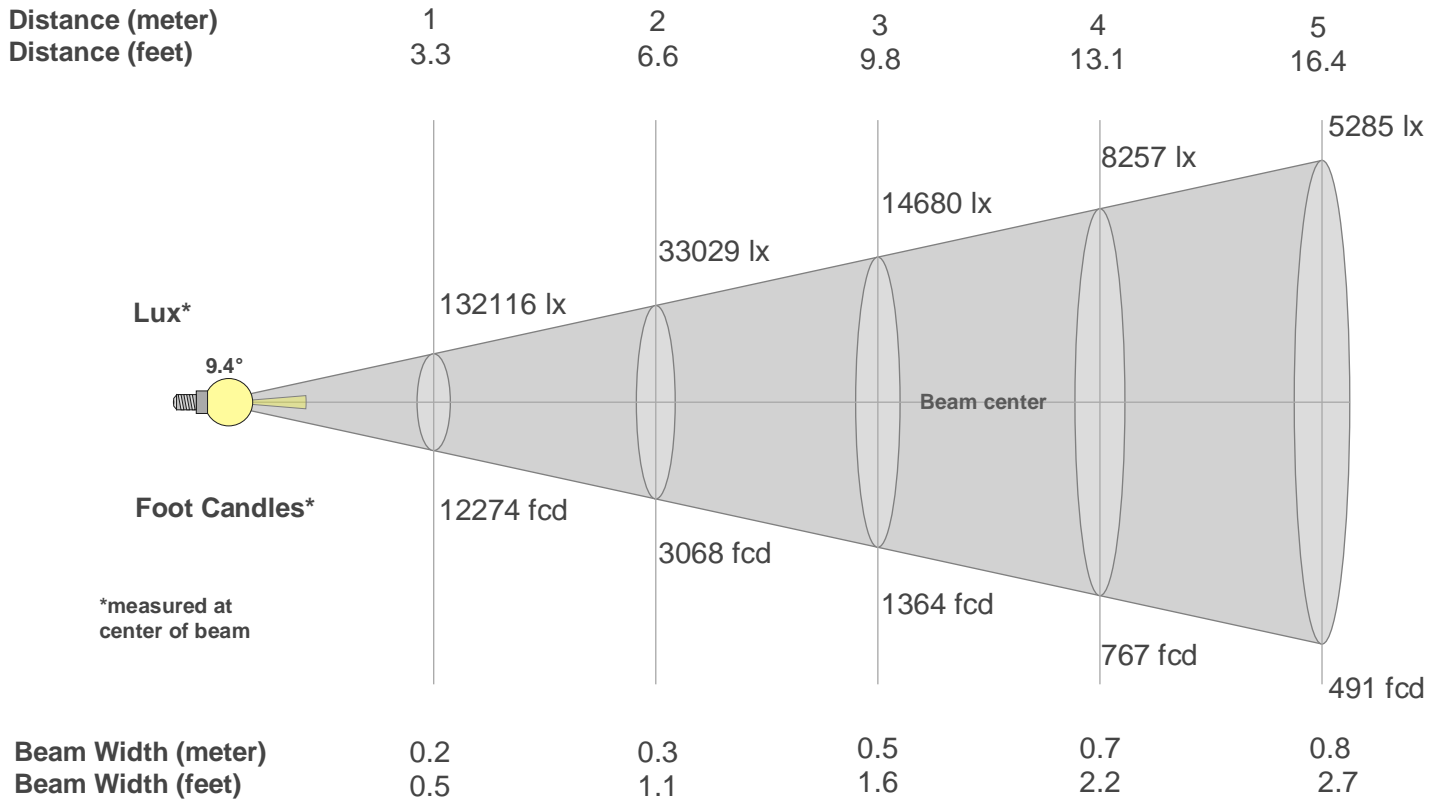
CQS: 89.1



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 |
| 5362 K | 84.4 | 67.9 | 87.3 | 103.6 | 89.1 | 0.337 | 0.386 | 0.194 | 0.333 | 0.0161 |

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 | 132116 | 33029 | 14680 | 8257 | 5285 | 3670 | 2696 | 2064 | 1631 | 1321 | 1092 | 917 | 782 | 674 | 587 | 516 | 457 | 408 | 366 | 330 |
| fcd | 12273.9 | 3068.5 | 1363.8 | 767.1 | 491 | 340.9 | 250.5 | 191.8 | 151.5 | 122.7 | 101.4 | 85.2 | 72.6 | 62.6 | 54.6 | 47.9 | 42.5 | 37.9 | 34 | 30.7 |

Intensities in 0° C-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 132K | 129K | 117K | 99K | 79K | 61K | 45K | 32K | 22K | 14K | 9K | 5K | 4K | 3K | 2K | 2K | 1K | 1K | 1K | 1K |
| 100% | 98% | 89% | 75% | 60% | 46% | 34% | 24% | 17% | 11% | 7% | 4% | 3% | 2% | 2% | 1% | 1% | 1% | 1% | 1% |

Intensities in 90° C-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 132K | 129K | 117K | 99K | 79K | 61K | 45K | 32K | 22K | 14K | 9K | 5K | 4K | 3K | 2K | 2K | 1K | 1K | 1K | 1K |
| 100% | 98% | 89% | 75% | 60% | 46% | 34% | 24% | 17% | 11% | 7% | 4% | 3% | 2% | 2% | 1% | 1% | 1% | 1% | 1% |

Intensities in 180° C-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 132K | 128K | 116K | 98K | 79K | 61K | 44K | 32K | 22K | 14K | 9K | 5K | 4K | 3K | 1K | 1K | 1K | 1K | 0K | 0K |
| 100% | 97% | 88% | 74% | 60% | 46% | 34% | 24% | 16% | 11% | 6% | 4% | 3% | 2% | 1% | 1% | 1% | 1% | 0% | 0% |

Intensities in 270° C-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 132K | 128K | 116K | 98K | 79K | 61K | 44K | 32K | 22K | 14K | 9K | 5K | 4K | 3K | 1K | 1K | 1K | 1K | 0K | 0K |
| 100% | 97% | 88% | 74% | 60% | 46% | 34% | 24% | 16% | 11% | 6% | 4% | 3% | 2% | 1% | 1% | 1% | 1% | 0% | 0% |

| Beam Angle 50% | Field Angle 10% | Cutoff Angle 2,5% | Intensity Ratio in 120° Cone | Intensity Ratio in 90° Cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 9.4° | 18.3° | 24.5° | 100.0% | 100.0% |