

# Encore FR Pro WW



Light Efficiency:

48 Lumen/Watt

Light Quality:

CRI: 97.2

Color Temperature:

3028 K

Output: 12312 lm

Peak: 23824 cd

Power: 258.7 W

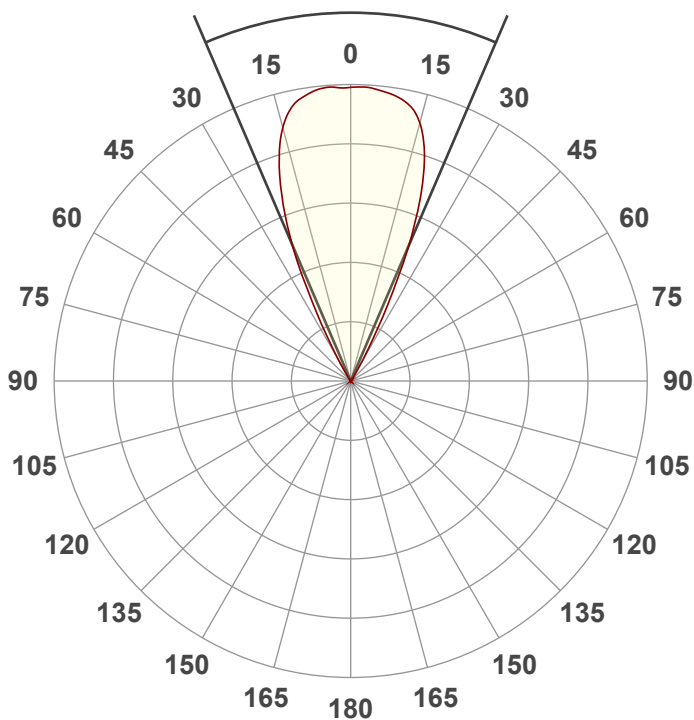
PF: 0.98

Rotating 4-Leaf  
Barn Door



Beam Angle

46.4°



Test:

Zoom Out

Date:

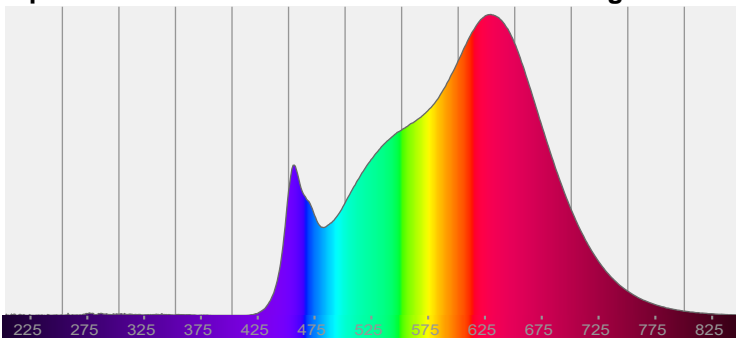
9/2/2022

Note:

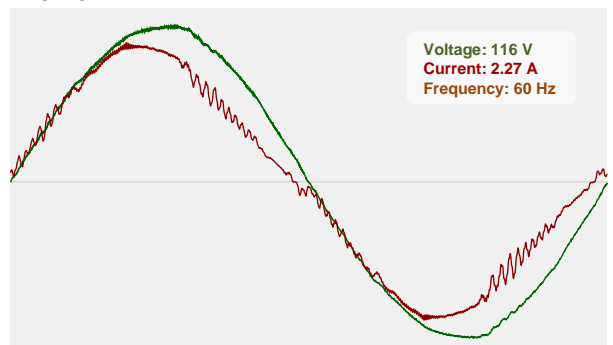
CIE 1931  
x: 0.435  
y: 0.403

Spectra

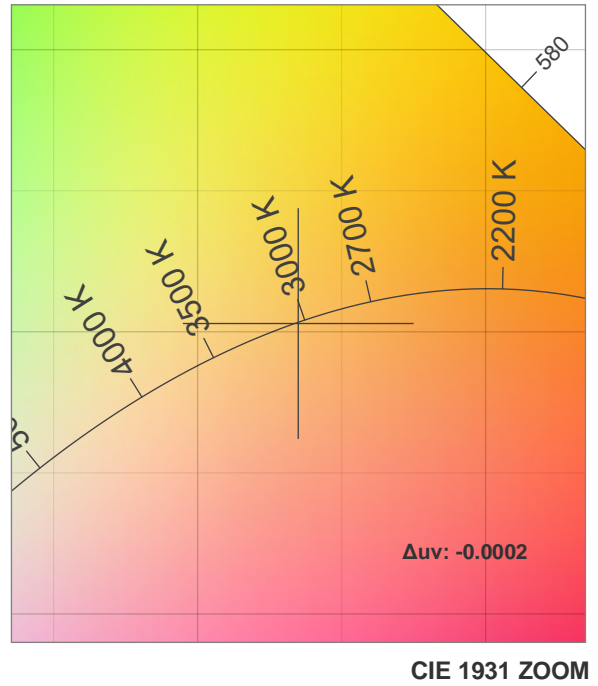
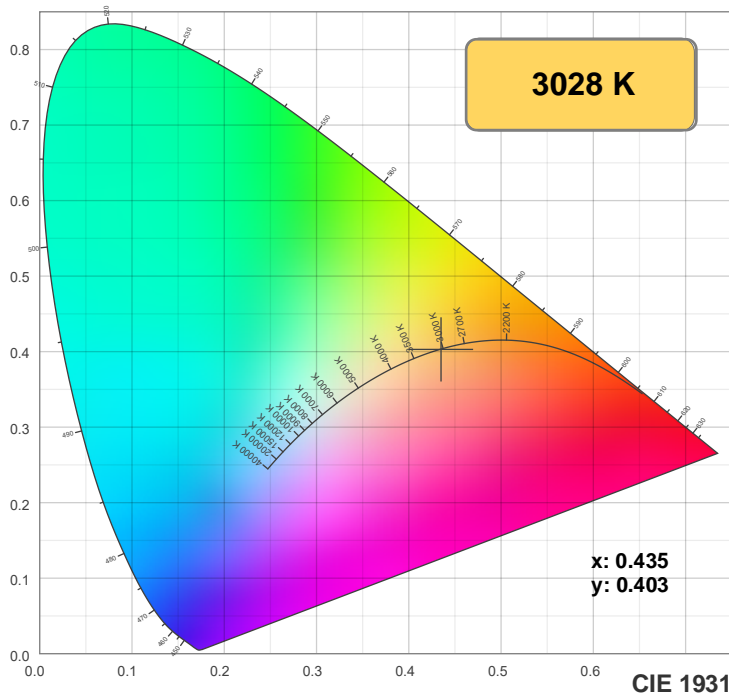
Dominant Wavelength: 584nm



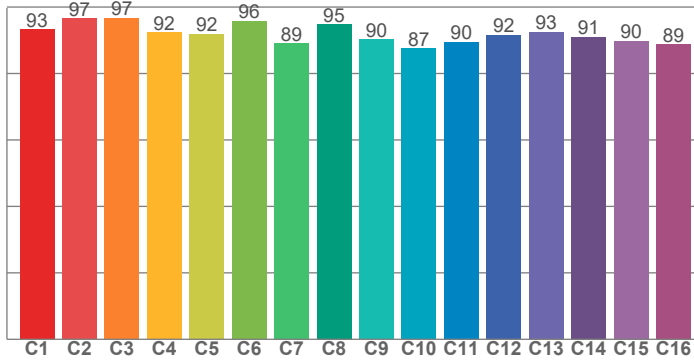
Power



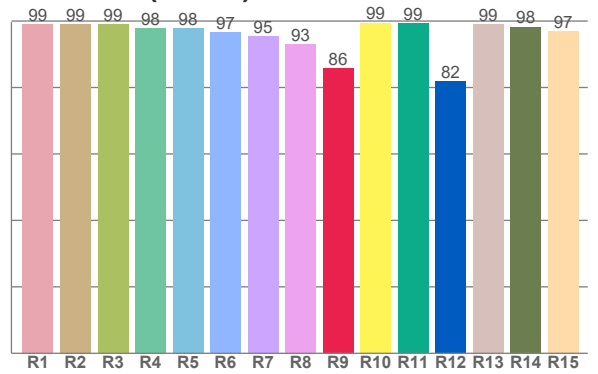
## Color Details



### TM30: 92.1



### CRI: 97.2 (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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98.9 | 99.1 | 99.0 | 97.9 | 97.8 | 96.6 | 95.3 | 93.1 | 85.8 | 99.5 | 99.2 | 81.9 | 99.1 | 98.3 | 97.0 |

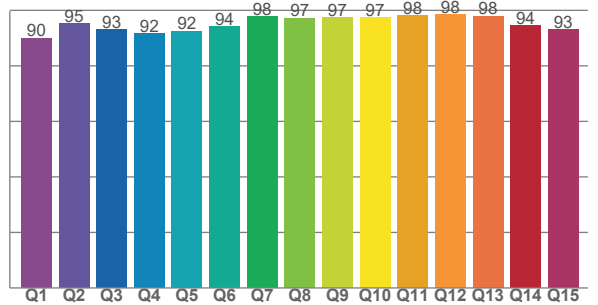
#### TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93.2 | 96.5 | 96.7 | 92.3 | 92.0 | 95.9 | 89.1 | 94.8 | 90.2 | 87.5 | 89.6 | 91.7 | 92.5 | 91.0 | 89.8 | 88.8 |

#### CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 90.0 | 95.2 | 93.1 | 91.6 | 92.5 | 94.2 | 97.8 | 97.1 | 97.4 | 97.4 | 98.2 | 98.4 | 97.9 | 94.4 | 93.0 |

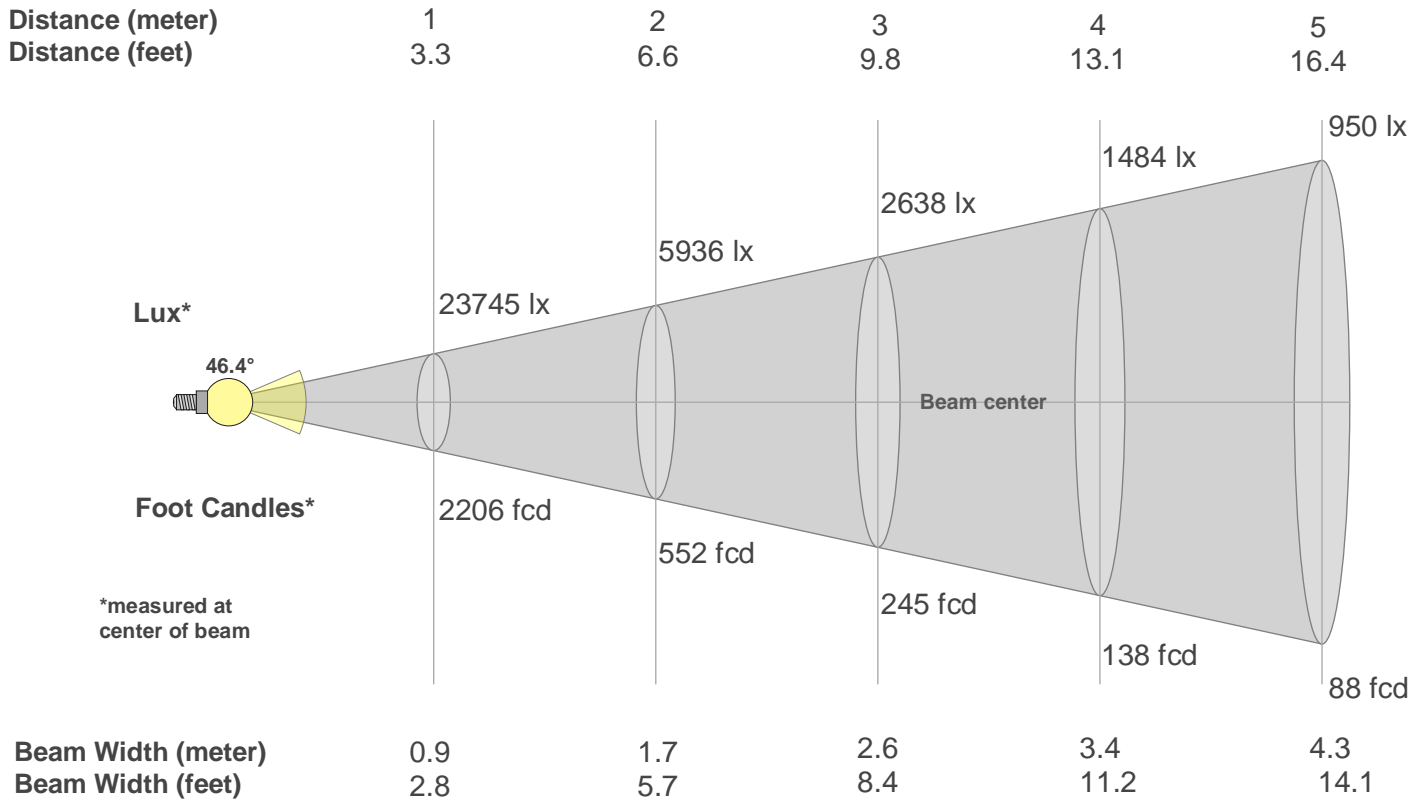
### CQS: 94.3



## 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                             |
| 3028 K            | 97.2                  | 85.8          | 92.1           | 98.4        | 94.3                | 0.435                     | 0.403                     | 0.250            | 0.347            | -0.0002                         |

## 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  | 23745 | 5936  | 2638  | 1484  | 950  | 660  | 485 | 371  | 293  | 237  | 196  | 165  | 141  | 121  | 106  | 93   | 82   | 73   | 66   | 59   |
| fcd | 2206  | 551.5 | 245.1 | 137.9 | 88.2 | 61.3 | 45  | 34.5 | 27.2 | 22.1 | 18.2 | 15.3 | 13.1 | 11.3 | 9.8  | 8.6  | 7.6  | 6.8  | 6.1  | 5.5  |

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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 23.7K | 23.7K | 23.8K | 23.7K | 23.5K | 23.2K | 22.7K | 21.8K | 20.4K | 18.6K | 16.4K | 13.8K | 10.7K | 7.1K | 4.2K | 2.1K | 0.9K | 0.4K | 0.2K | 0.1K |
| 100%  | 100%  | 100%  | 100%  | 99%   | 98%   | 95%   | 92%   | 86%   | 78%   | 69%   | 58%   | 45%   | 30%  | 18%  | 9%   | 4%   | 2%   | 1%   | 0%   |

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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 23.7K | 23.7K | 23.8K | 23.7K | 23.5K | 23.2K | 22.7K | 21.8K | 20.4K | 18.6K | 16.4K | 13.8K | 10.7K | 7.1K | 4.2K | 2.1K | 0.9K | 0.4K | 0.2K | 0.1K |
| 100%  | 100%  | 100%  | 100%  | 99%   | 98%   | 95%   | 92%   | 86%   | 78%   | 69%   | 58%   | 45%   | 30%  | 18%  | 9%   | 4%   | 2%   | 1%   | 0%   |

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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 23.7K | 23.8K | 23.7K | 23.6K | 23.4K | 23.2K | 22.7K | 22.0K | 20.9K | 19.2K | 16.9K | 13.9K | 10.5K | 6.7K | 3.8K | 2.0K | 1.0K | 0.5K | 0.2K | 0.1K |
| 100%  | 100%  | 100%  | 99%   | 99%   | 98%   | 96%   | 93%   | 88%   | 81%   | 71%   | 59%   | 44%   | 28%  | 16%  | 8%   | 4%   | 2%   | 1%   | 0%   |

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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 23.7K | 23.8K | 23.7K | 23.6K | 23.4K | 23.2K | 22.7K | 22.0K | 20.9K | 19.2K | 16.9K | 13.9K | 10.5K | 6.7K | 3.8K | 2.0K | 1.0K | 0.5K | 0.2K | 0.1K |
| 100%  | 100%  | 100%  | 99%   | 99%   | 98%   | 96%   | 93%   | 88%   | 81%   | 71%   | 59%   | 44%   | 28%  | 16%  | 8%   | 4%   | 2%   | 1%   | 0%   |

| Beam Angle 50% | Field Angle 10% | Cutoff Angle 2,5% | Intensity Ratio in 120° Cone | Intensity Ratio in 90° Cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 46.4°          | 59.2°           | 66.6°             | 99.7%                        | 99.7%                       |