

Light efficiency:



Light quality:



Color temperature:



Output: 1882 lm

Peak: 8225 cd

Power: 88.0 W

PF: 0.99



Tracking number: [n/a](#)

Product name:

**ElectraPix Bar 16**

Item number:

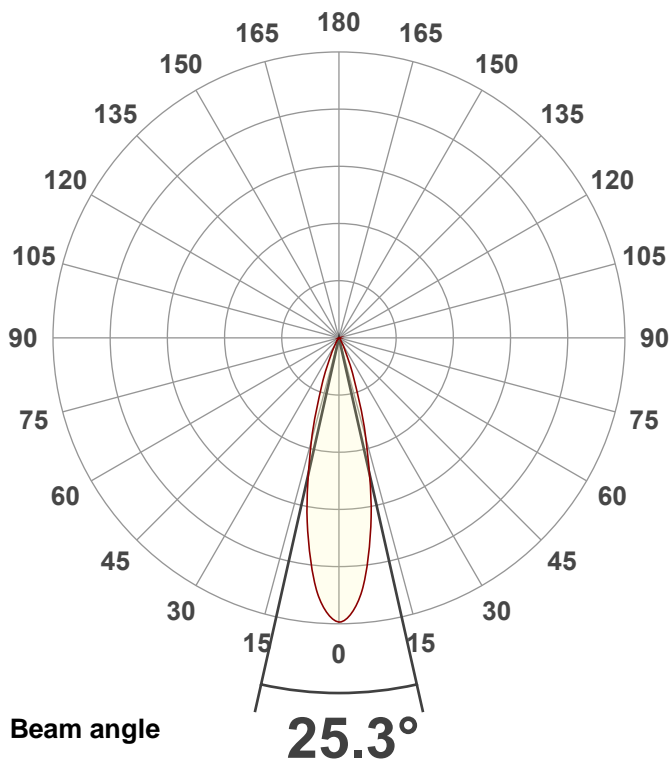
**4500K**

Date and time:

**8/29/2024 9:15:16 AM**

Description:

**@ 30**

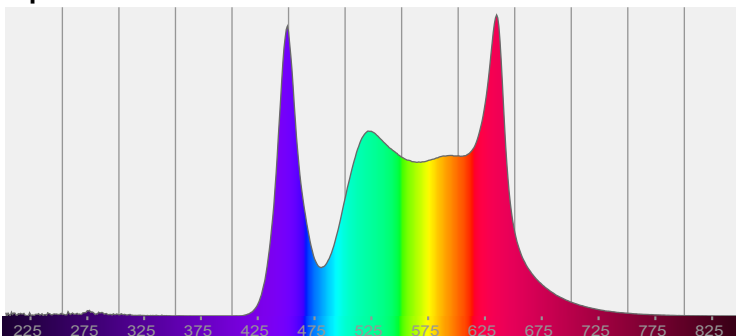


CIE 1931

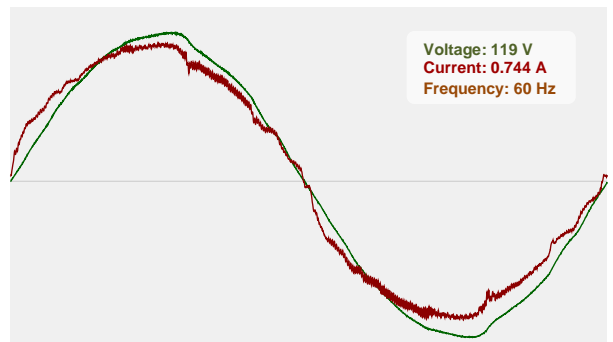
x: 0.360

y: 0.360

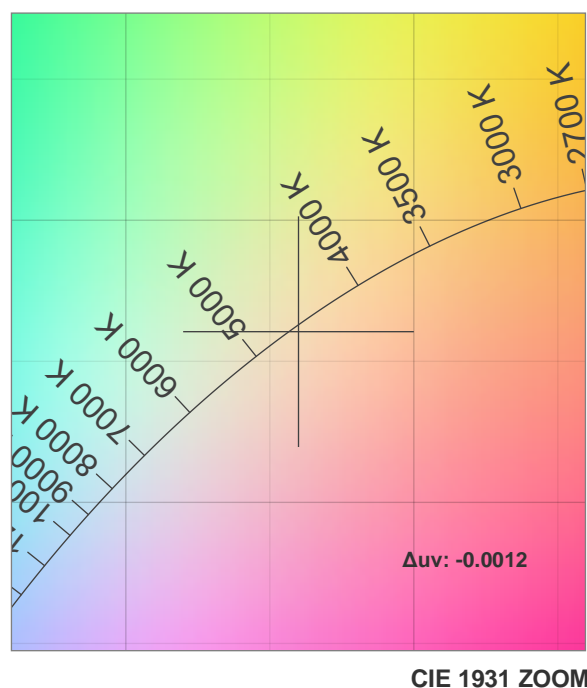
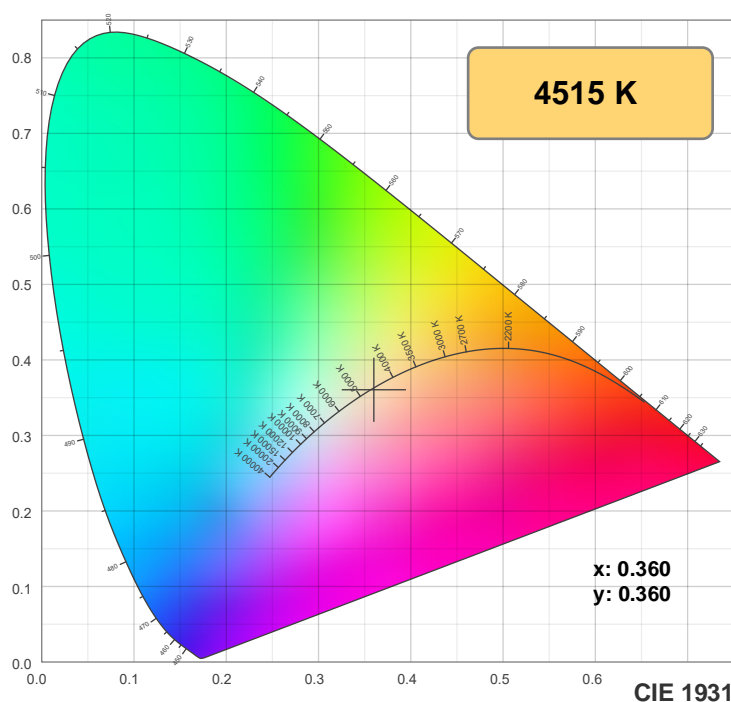
Spectra



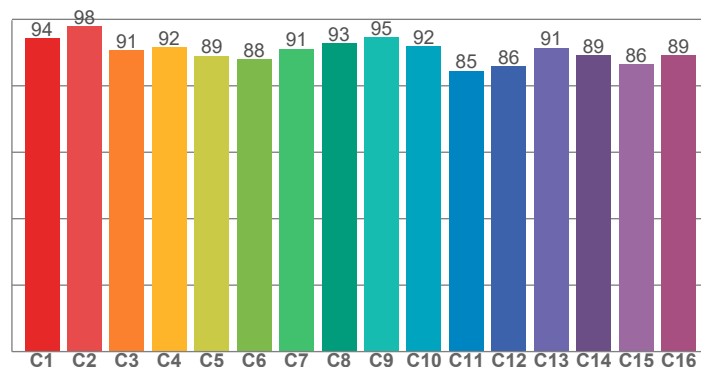
Power



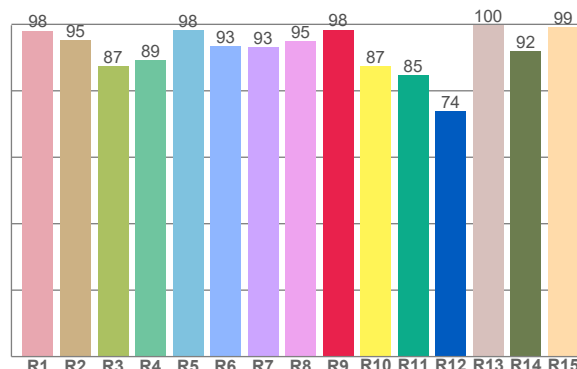
## Color details



**TM-30: 90.8**



**CRI: 93.7 (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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98.1 | 95.2 | 87.4 | 89.1 | 98.2 | 93.4 | 93.2 | 95.0 | 98.4 | 87.4 | 84.7 | 74.0 | 99.8 | 92.0 | 99.1 |

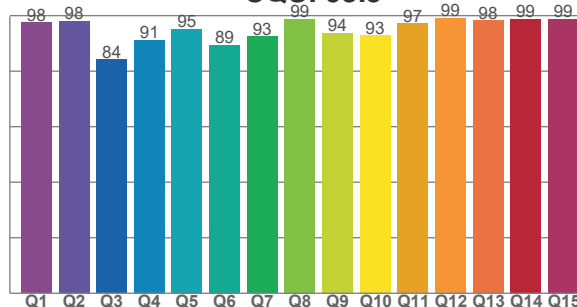
**TM30 C values, 16 binned values out of total of 99 C values**

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94.2 | 97.9 | 90.6 | 91.6 | 89.1 | 88.0 | 91.2 | 92.8 | 94.6 | 91.9 | 84.6 | 85.8 | 91.4 | 89.1 | 86.4 | 89.2 |

**CQS Q values**

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97.5 | 98.1 | 84.2 | 91.2 | 95.1 | 89.5 | 92.5 | 98.8 | 93.8 | 92.8 | 97.2 | 99.2 | 98.2 | 98.7 | 98.9 |

**CQS: 93.5**



### 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                             |
| 4515 K            | 93.7                  | 98.4          | 90.8           | 105.9       | 93.5                | 0.360                     | 0.360                     | 0.218            | 0.327            | -0.0012                         |

# TM-30 details

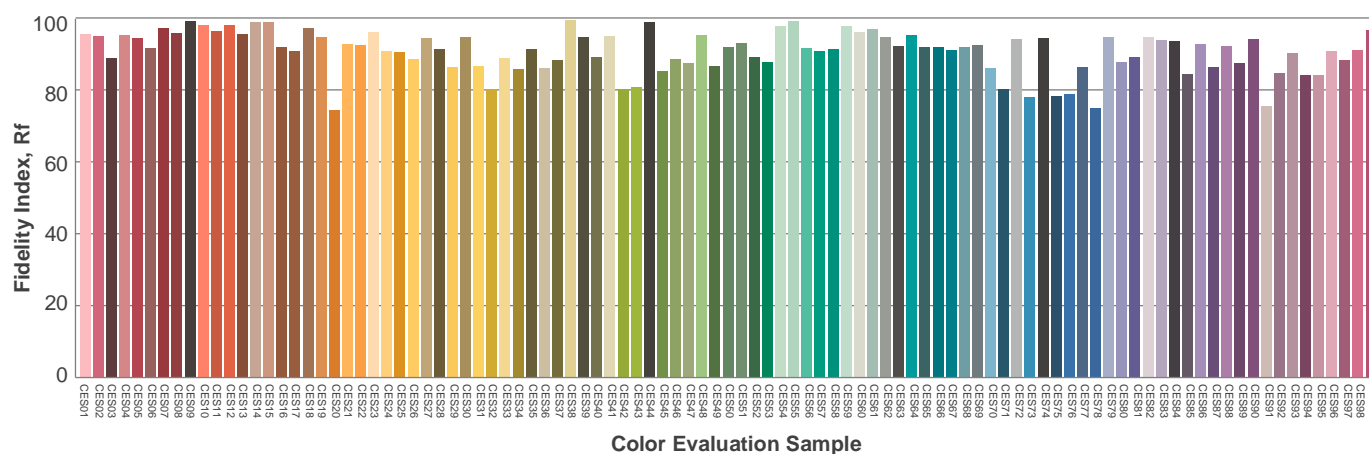
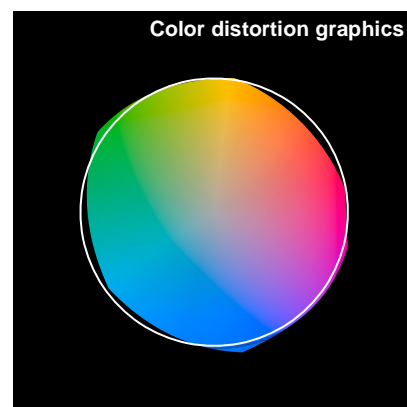
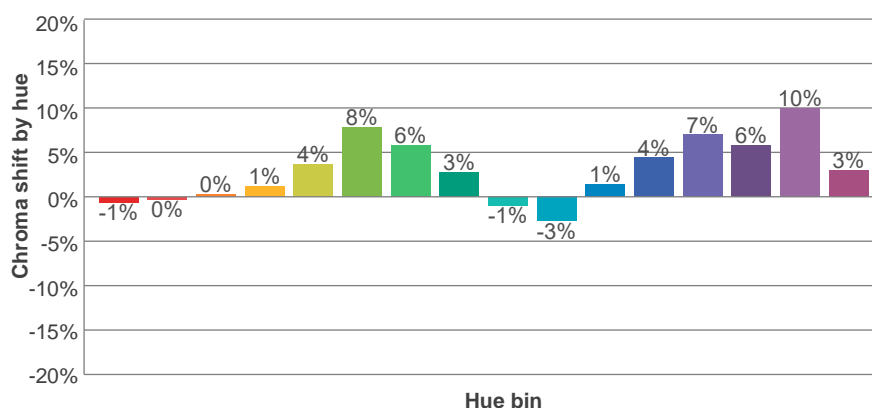
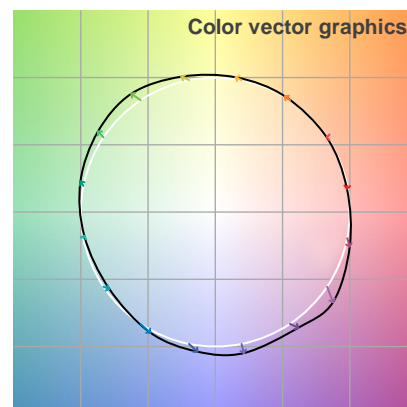
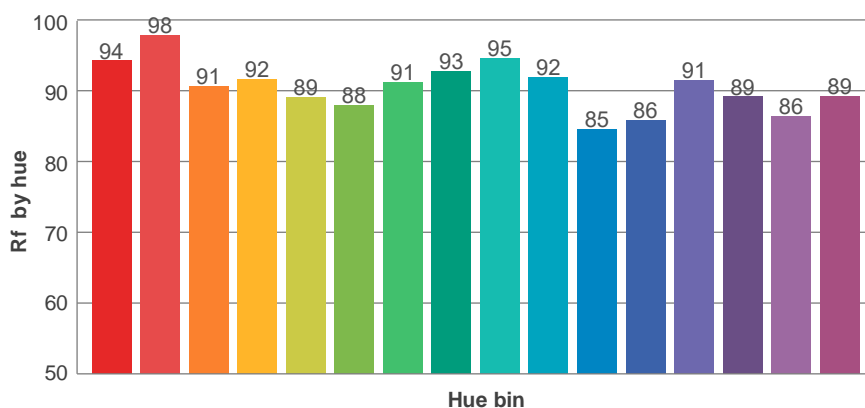
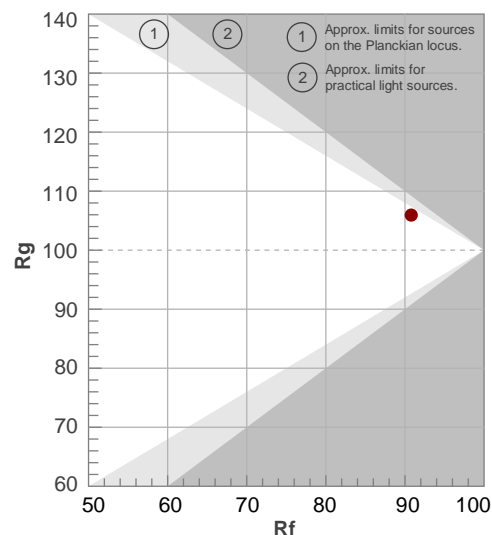
**Rf 90.8**

Fidelity index Rf

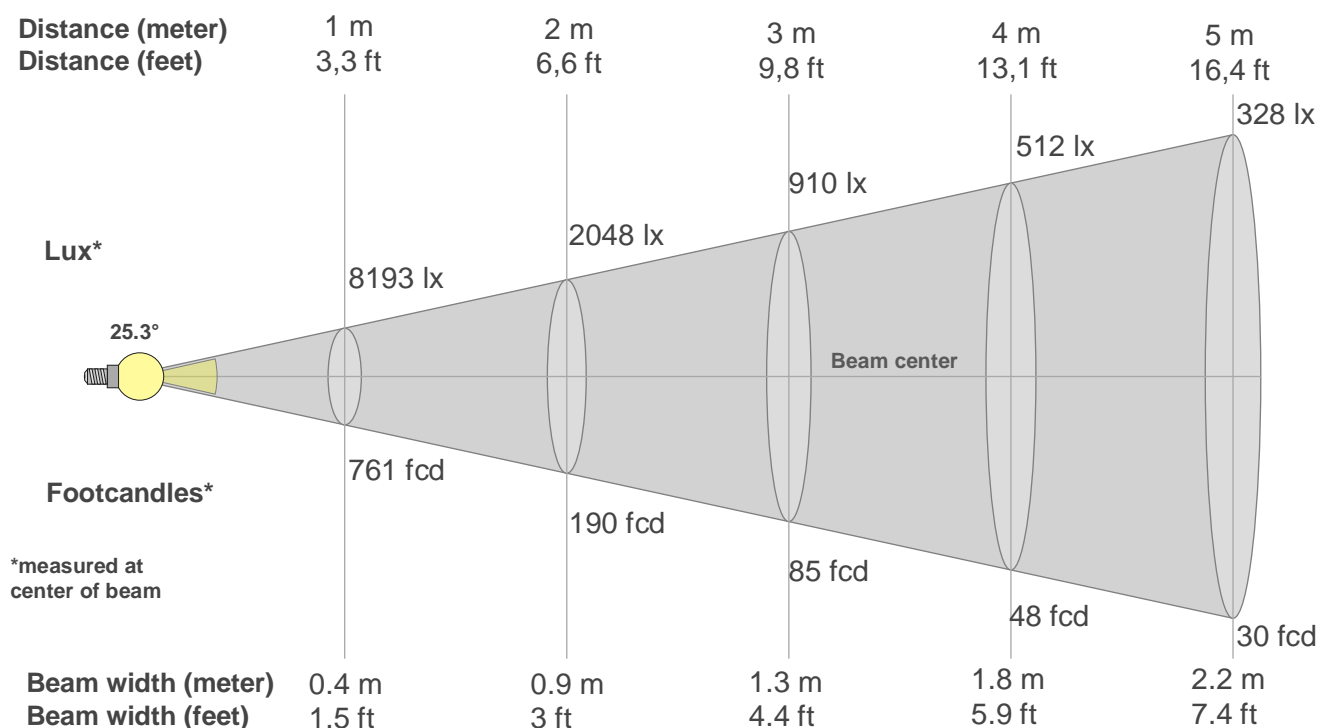
**Rg 105.9**

Gamut index Rg

| Hue Bin | Ri | Shifts (%) |     |
|---------|----|------------|-----|
|         |    | Chroma     | Hue |
| 1       | 94 | -1%        | -2% |
| 2       | 98 | 0%         | 0%  |
| 3       | 91 | 0%         | 5%  |
| 4       | 92 | 1%         | 5%  |
| 5       | 89 | 4%         | 5%  |
| 6       | 88 | 8%         | 3%  |
| 7       | 91 | 6%         | -1% |
| 8       | 93 | 3%         | -3% |
| 9       | 95 | -1%        | -2% |
| 10      | 92 | -3%        | 4%  |
| 11      | 85 | 1%         | 10% |
| 12      | 86 | 4%         | 7%  |
| 13      | 91 | 7%         | 0%  |
| 14      | 89 | 6%         | 3%  |
| 15      | 86 | 10%        | -7% |
| 16      | 89 | 3%         | -6% |



## Beam details



### Beam intensities 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 |
| 8193lx   | 2048lx   | 910lx   | 512lx   | 328lx   | 228lx   | 167lx   | 128lx   | 101lx  | 82lx   | 68lx   | 57lx   | 48lx   | 42lx   | 36lx   | 32lx   | 28lx   | 25lx   | 23lx   | 20lx   |
| 761.2fcd | 190.3fcd | 84.6fcd | 47.6fcd | 30.4fcd | 21.1fcd | 15.5fcd | 11.9fcd | 9.4fcd | 7.6fcd | 6.3fcd | 5.3fcd | 4.5fcd | 3.9fcd | 3.4fcd | 3fcd   | 2.6fcd | 2.3fcd | 2.1fcd | 1.9fcd |

### 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° |
|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8193 | 7910 | 7561 | 7016 | 6181 | 5346 | 4421 | 3486 | 2658 | 1985 | 1312 | 961 | 643 | 410 | 301 | 193 | 153 | 119 | 95  | 83  |
| 100% | 97%  | 92%  | 86%  | 75%  | 65%  | 54%  | 43%  | 32%  | 24%  | 16%  | 12% | 8%  | 5%  | 4%  | 2%  | 2%  | 1%  | 1%  | 1%  |

### 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° |
|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8193 | 7910 | 7561 | 7016 | 6181 | 5346 | 4421 | 3486 | 2658 | 1985 | 1312 | 961 | 643 | 410 | 301 | 193 | 153 | 119 | 95  | 83  |
| 100% | 97%  | 92%  | 86%  | 75%  | 65%  | 54%  | 43%  | 32%  | 24%  | 16%  | 12% | 8%  | 5%  | 4%  | 2%  | 2%  | 1%  | 1%  | 1%  |

### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 8193 | 7871 | 7549 | 6935 | 6126 | 5308 | 4409 | 3511 | 2748 | 2077 | 1436 | 1075 | 714 | 483 | 340 | 206 | 160 | 114 | 87  | 72  |
| 100% | 96%  | 92%  | 85%  | 75%  | 65%  | 54%  | 43%  | 34%  | 25%  | 18%  | 13%  | 9%  | 6%  | 4%  | 3%  | 2%  | 1%  | 1%  | 1%  |

### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 8193 | 7871 | 7549 | 6935 | 6126 | 5308 | 4409 | 3511 | 2748 | 2077 | 1436 | 1075 | 714 | 483 | 340 | 206 | 160 | 114 | 87  | 72  |
| 100% | 96%  | 92%  | 85%  | 75%  | 65%  | 54%  | 43%  | 34%  | 25%  | 18%  | 13%  | 9%  | 6%  | 4%  | 3%  | 2%  | 1%  | 1%  | 1%  |

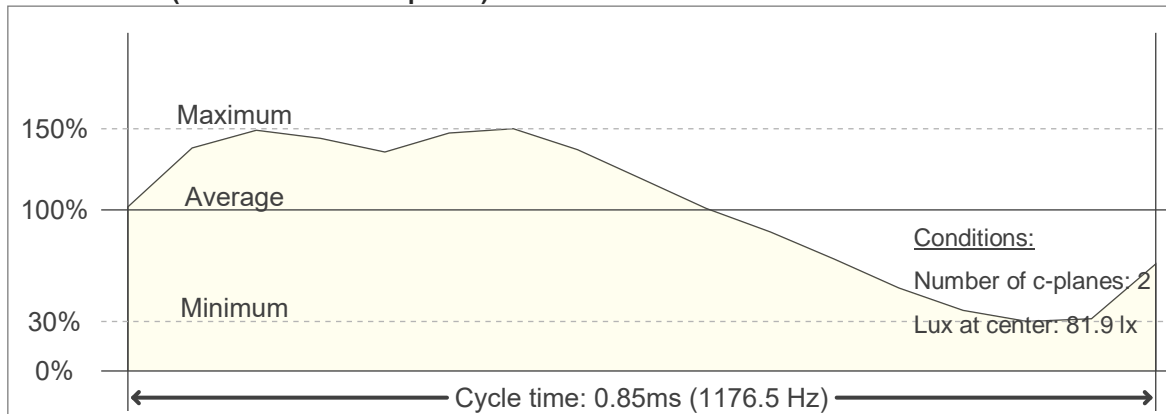
| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 25.3°          | 46.3°           | 59.8°             | 99.2%                        | 97.1%                       |

## Flicker

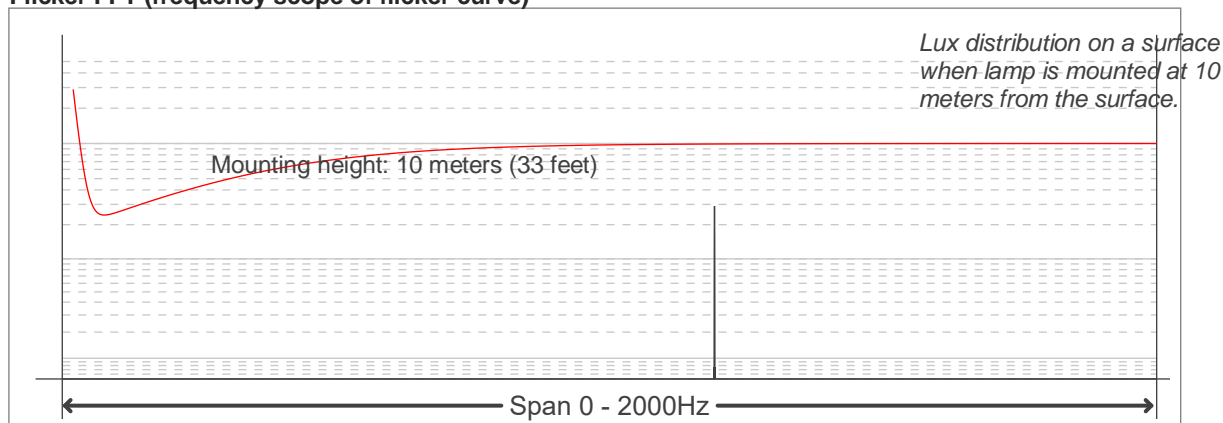
**Flicker curve (complete sampled flicker signal)**



**Flicker frame (frame of one flicker period)**



**Flicker FFT (frequency scope of flicker curve)**



**Flicker results:**

| Flicker frequency:    |         | 1176.47 Hz    |         |
|-----------------------|---------|---------------|---------|
| Flicker index:        | 0.19    | JA8/10 40Hz   | 1.12 %  |
| Flicker percentage:   | 73.16 % | JA8/10 90Hz   | 2.47 %  |
| SVM: (Visual flicker) | 0.59    | JA8/10 200Hz  | 5.39 %  |
| PstLM                 | 0.04    | JA8/10 400Hz  | 10.28 % |
| Mp                    | 0.21    | JA8/10 1000Hz | 24.17 % |

**Flicker conditions:**

|              |                      |
|--------------|----------------------|
| Sample rate: | 20000 samples/second |
|--------------|----------------------|