

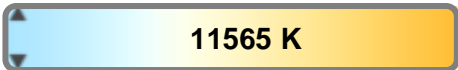
Light efficiency:



Light quality:



Color temperature:



Output: 1259 lm  
Peak: 23482 cd  
Power: 57.1 W  
PF: 0.98



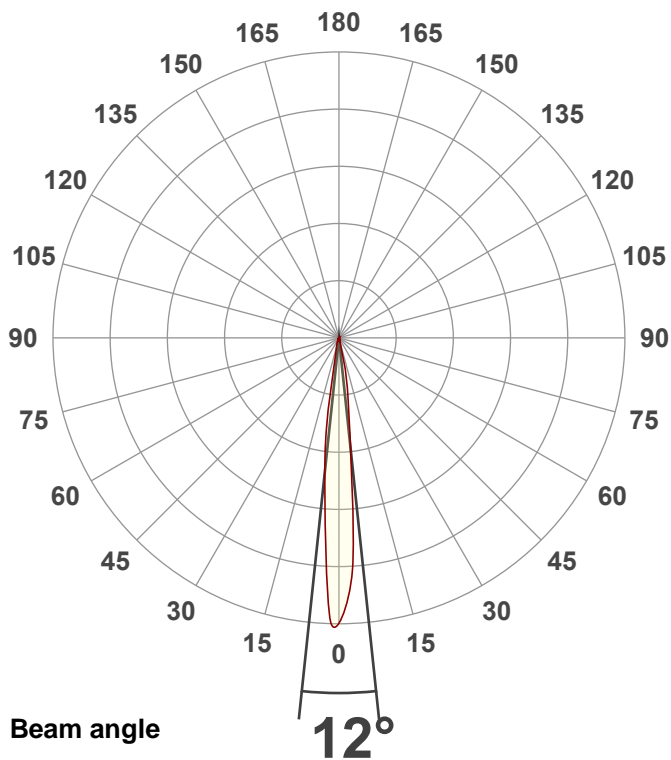
Tracking number: [n/a](#)

Product name:  
**ElectraPix Par 7**

Item number:  
**Full On RGB**

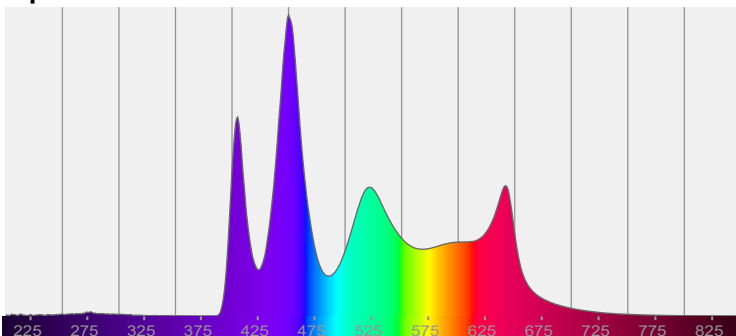
Date and time:  
**9/6/2024 3:07:08 PM**

Description:

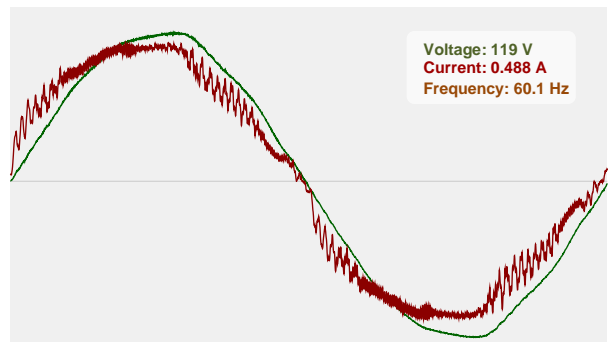


CIE 1931  
x: 0.283  
y: 0.265

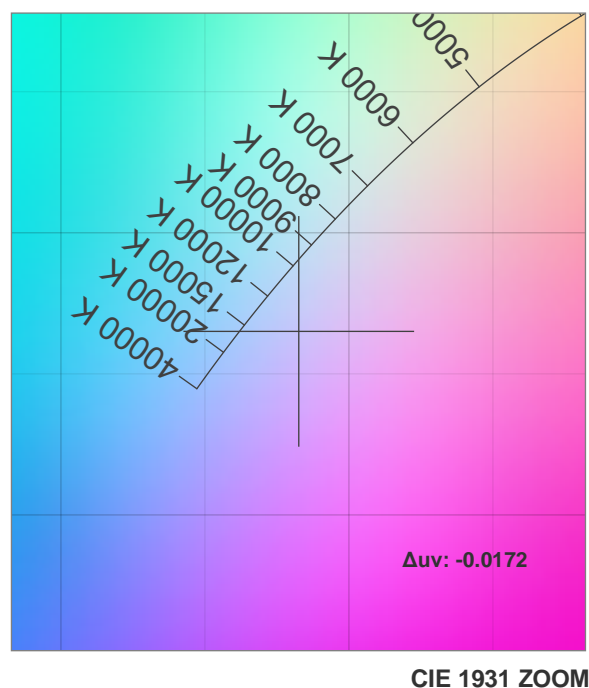
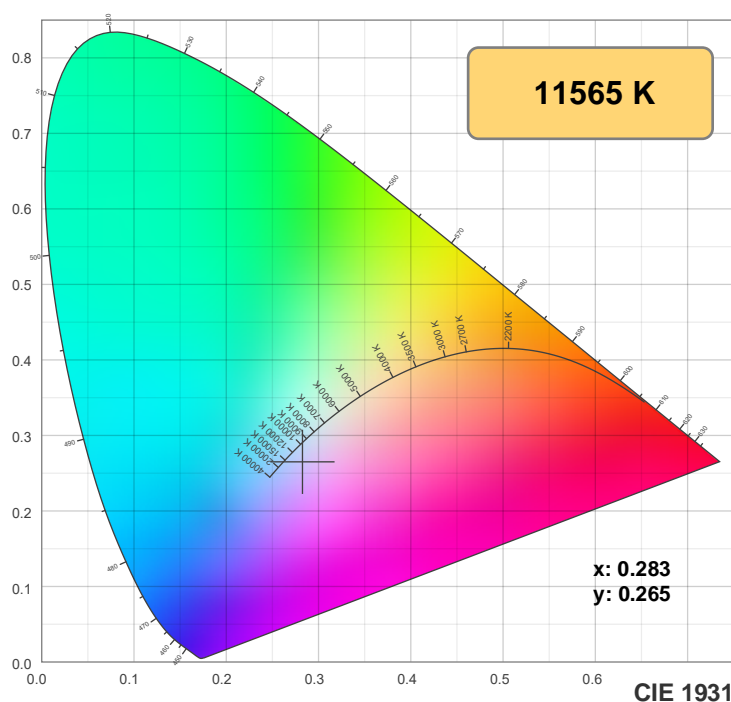
Spectra



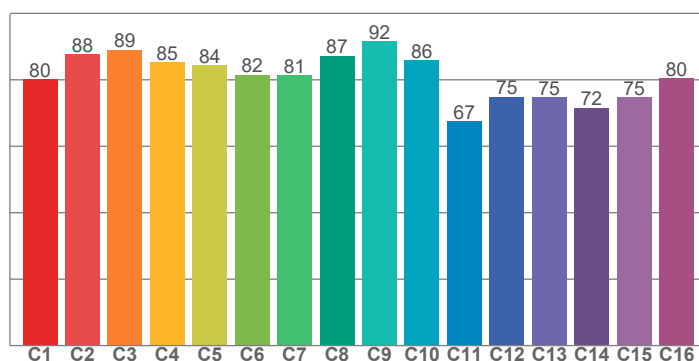
Power



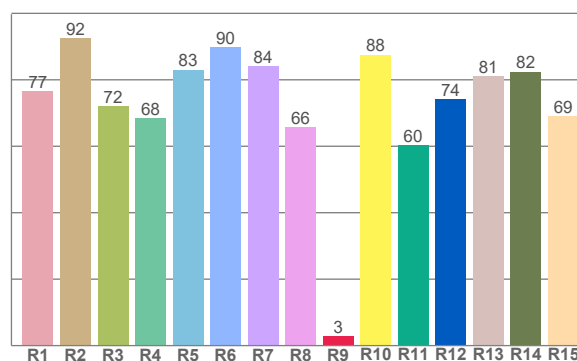
## Color details



**TM-30: 82.2**



**CRI: 79.0 (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  |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 76.6 | 92.4 | 72.1 | 68.5 | 83.1 | 89.9 | 84.0 | 65.6 | 3.0 | 87.6 | 60.3 | 74.2 | 81.1 | 82.5 | 69.1 |

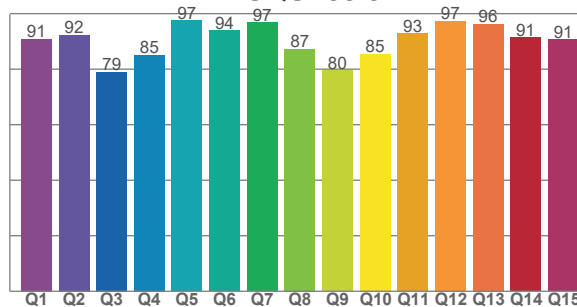
**TM30 C values, 16 binned values out of total of 99 C values**

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.1 | 87.6 | 89.0 | 85.3 | 84.3 | 81.5 | 81.4 | 87.2 | 91.6 | 85.9 | 67.4 | 74.9 | 74.8 | 71.6 | 74.7 | 80.4 |

**CQS Q values**

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 90.9 | 92.4 | 79.1 | 85.0 | 97.5 | 93.9 | 96.7 | 87.3 | 79.6 | 85.5 | 92.8 | 97.3 | 96.2 | 91.4 | 90.7 |

**CQS: 88.8**



### 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                             |
| 11565 K           | 79.0                  | 3.0           | 82.2           | 112.3       | 88.8                | 0.283                     | 0.265                     | 0.201            | 0.283            | -0.0172                         |

# TM-30 details

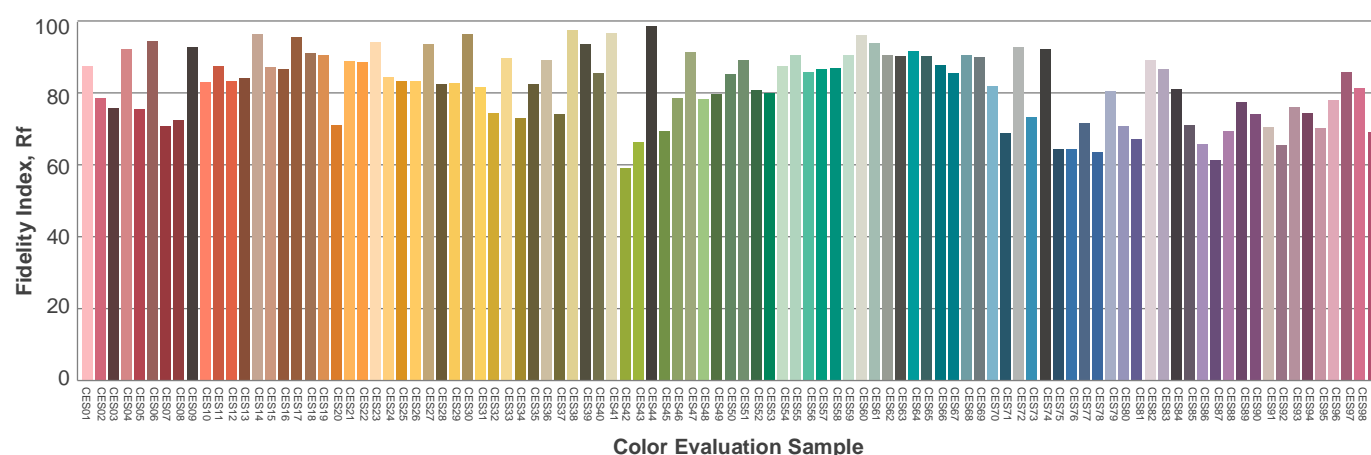
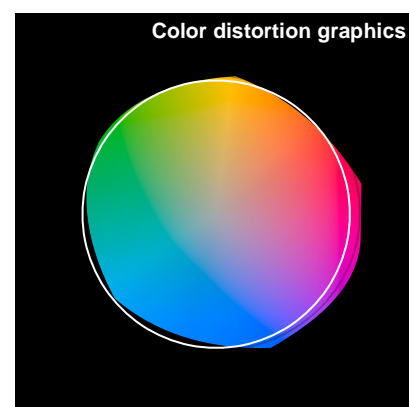
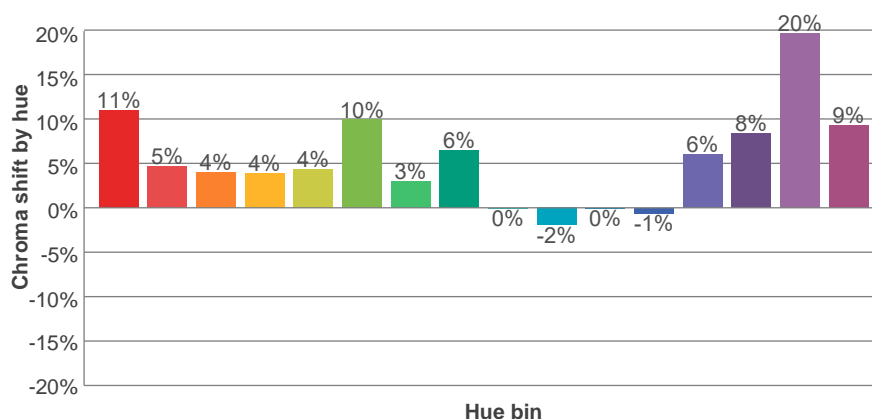
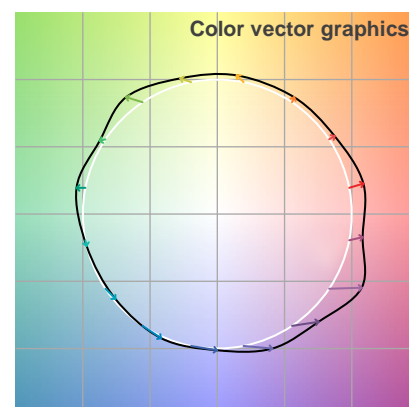
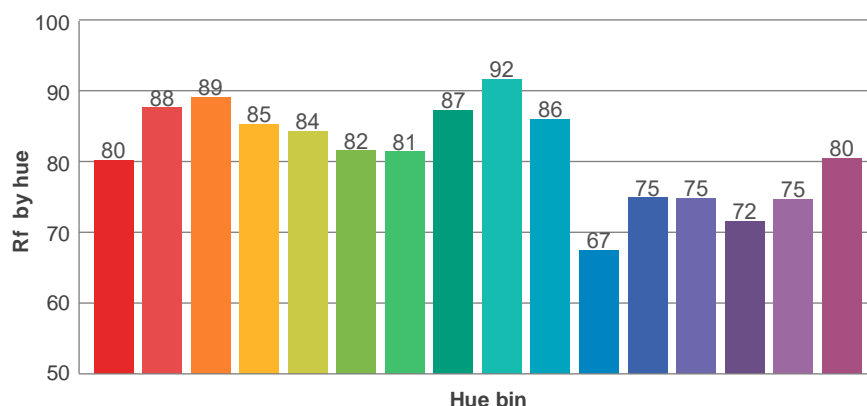
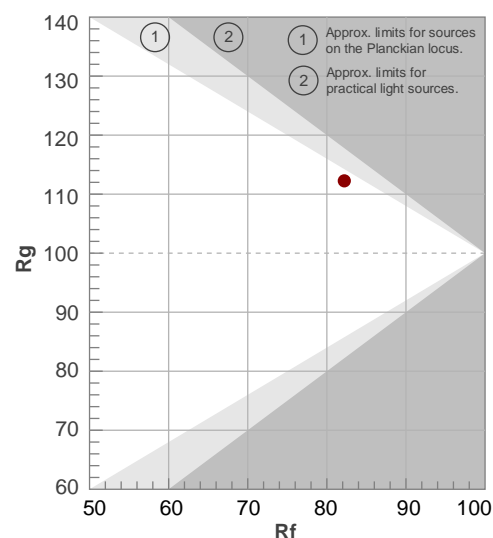
**Rf 82.2**

Fidelity index Rf

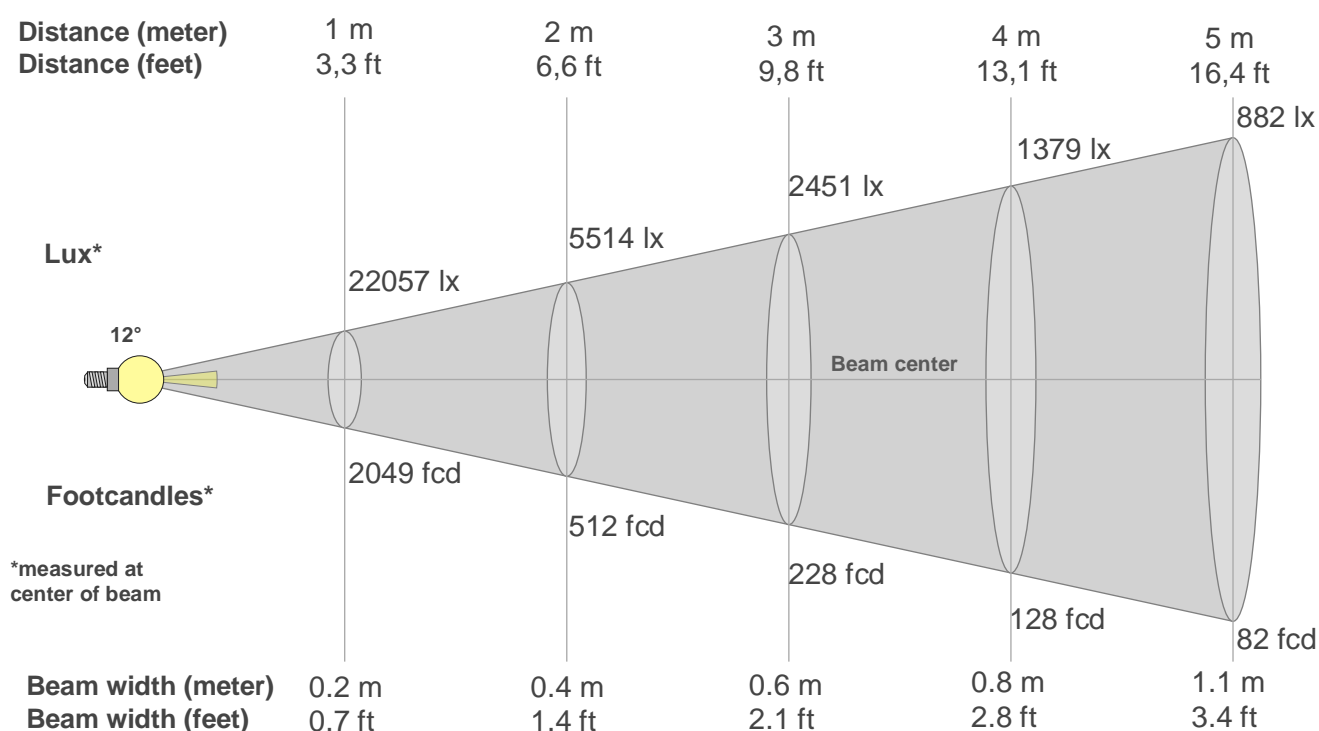
**Rg 112.3**

Gamut index Rg

| Hue Bin | R <sub>f</sub> | Shifts (%) |     |
|---------|----------------|------------|-----|
|         |                | Chroma     | Hue |
| 1       | 80             | 11%        | 1%  |
| 2       | 88             | 5%         | 0%  |
| 3       | 89             | 4%         | 1%  |
| 4       | 85             | 4%         | 6%  |
| 5       | 84             | 4%         | 7%  |
| 6       | 82             | 10%        | 8%  |
| 7       | 81             | 3%         | 3%  |
| 8       | 87             | 6%         | 1%  |
| 9       | 92             | 0%         | 4%  |
| 10      | 86             | -2%        | 10% |
| 11      | 67             | 0%         | 17% |
| 12      | 75             | -1%        | 19% |
| 13      | 75             | 6%         | 21% |
| 14      | 72             | 8%         | 18% |
| 15      | 75             | 20%        | 14% |
| 16      | 80             | 9%         | 4%  |



## 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 |
| 22057lx   | 5514lx   | 2451lx   | 1379lx   | 882lx  | 613lx   | 450lx   | 345lx  | 272lx   | 221lx   | 182lx   | 153lx   | 131lx   | 113lx   | 98lx   | 86lx   | 76lx   | 68lx   | 61lx   | 55lx   |
| 2049.2fcd | 512.3fcd | 227.7fcd | 128.1fcd | 82fcd  | 56.9fcd | 41.8fcd | 32fcd  | 25.3fcd | 20.5fcd | 16.9fcd | 14.2fcd | 12.1fcd | 10.5fcd | 9.1fcd | 8fcd   | 7.1fcd | 6.3fcd | 5.7fcd | 5.1fcd |

### 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°  |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 22.1K | 21.2K | 20.4K | 19.5K | 17.3K | 14.5K | 11.8K | 9.0K | 6.2K | 4.6K | 3.7K | 2.8K | 1.8K | 0.9K | 0.5K | 0.4K | 0.4K | 0.3K | 0.2K | 0.2K |
| 100%  | 96%   | 92%   | 88%   | 79%   | 66%   | 53%   | 41%  | 28%  | 21%  | 17%  | 12%  | 8%   | 4%   | 2%   | 2%   | 2%   | 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°  |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 22.1K | 21.2K | 20.4K | 19.5K | 17.3K | 14.5K | 11.8K | 9.0K | 6.2K | 4.6K | 3.7K | 2.8K | 1.8K | 0.9K | 0.5K | 0.4K | 0.4K | 0.3K | 0.2K | 0.2K |
| 100%  | 96%   | 92%   | 88%   | 79%   | 66%   | 53%   | 41%  | 28%  | 21%  | 17%  | 12%  | 8%   | 4%   | 2%   | 2%   | 2%   | 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°  |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 22.1K | 22.9K | 22.6K | 19.9K | 17.2K | 14.5K | 11.8K | 9.4K | 7.6K | 5.9K | 4.2K | 2.5K | 1.2K | 1.0K | 0.8K | 0.6K | 0.4K | 0.3K | 0.2K | 0.2K |
| 100%  | 104%  | 102%  | 90%   | 78%   | 66%   | 53%   | 42%  | 35%  | 27%  | 19%  | 11%  | 6%   | 5%   | 4%   | 3%   | 2%   | 1%   | 1%   | 1%   |

### 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°  |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 22.1K | 22.9K | 22.6K | 19.9K | 17.2K | 14.5K | 11.8K | 9.4K | 7.6K | 5.9K | 4.2K | 2.5K | 1.2K | 1.0K | 0.8K | 0.6K | 0.4K | 0.3K | 0.2K | 0.2K |
| 100%  | 104%  | 102%  | 90%   | 78%   | 66%   | 53%   | 42%  | 35%  | 27%  | 19%  | 11%  | 6%   | 5%   | 4%   | 3%   | 2%   | 1%   | 1%   | 1%   |

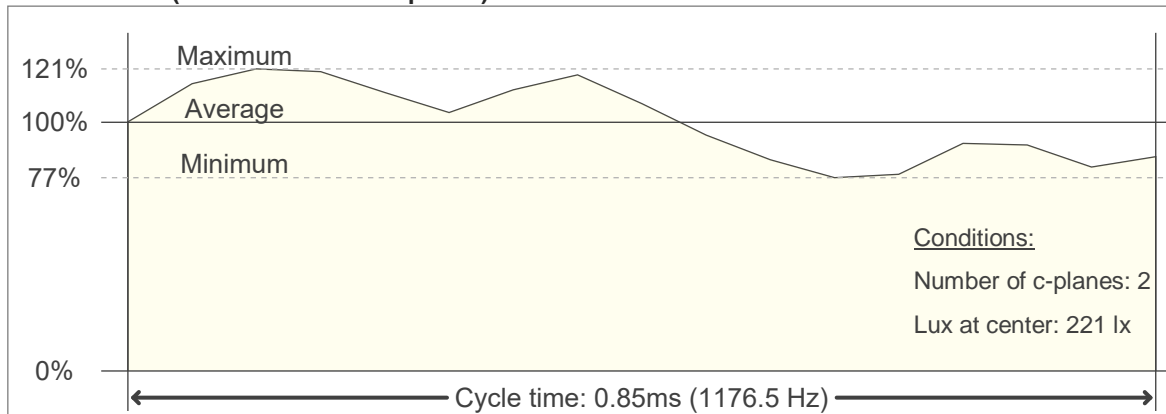
| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 12°            | 22.5°           | 28.5°             | 99.8%                        | 98.4%                       |

## Flicker

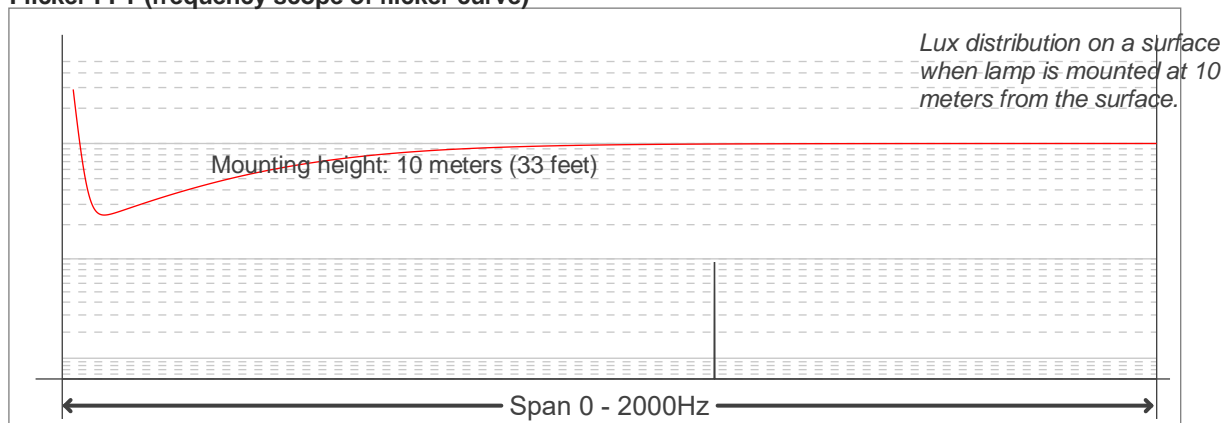
**Flicker curve (complete sampled flicker signal)**



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



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



**Flicker results:**

| Flicker frequency:    |        | 1176.47 Hz    |        |
|-----------------------|--------|---------------|--------|
| Flicker index:        | 0.07   | JA8/10 40Hz   | 0.35 % |
| Flicker percentage:   | 24.5 % | JA8/10 90Hz   | 0.77 % |
| SVM: (Visual flicker) | 0.19   | JA8/10 200Hz  | 1.69 % |
| PstLM                 | 0.03   | JA8/10 400Hz  | 3.31 % |
| Mp                    | 0.07   | JA8/10 1000Hz | 8.99 % |

**Flicker conditions:**

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