

**Light efficiency:**

**46 Lumen/Watt**

**Light quality:**

**CRI: 74.3**

**Color temperature:**

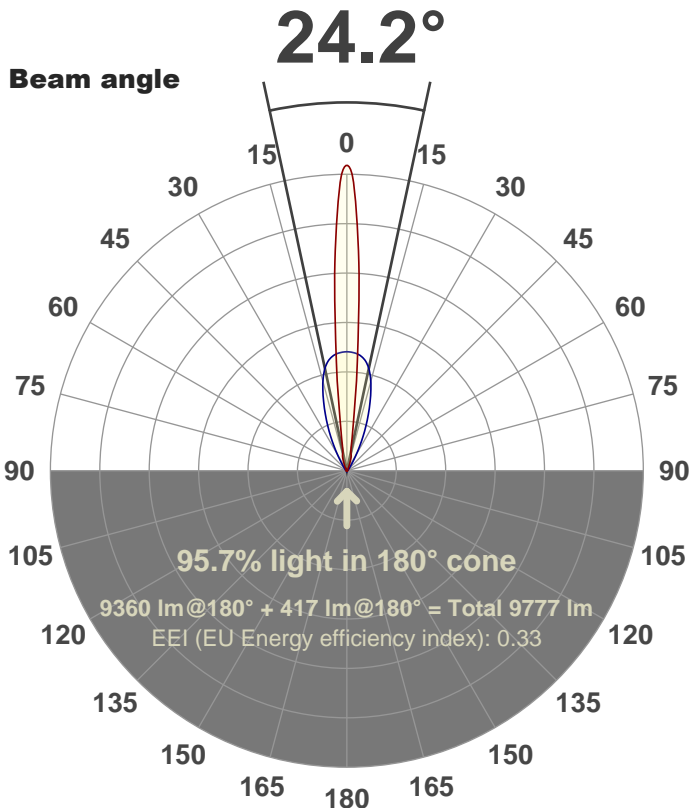
**6647 K**

**Output: 9360 lm**

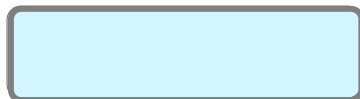
**Peak: 58246 cd**

**Power: 203 W**

**PF: 1.0**



**Color**



**CIE 1931**  
**x: 0.311**  
**y: 0.322**

**Product name:**

**FL200-CM-RGBW-IM-40X10-ELV-SM-WHITE**

**Date and time:**

**27-Aug-18 7:31:52 PM**

**Additional Information:**

**LED: RGBW**

**FIXTURE: FL200**

**FILM: 250288 (40°X1°)**

**COLOR-AMP: ON**

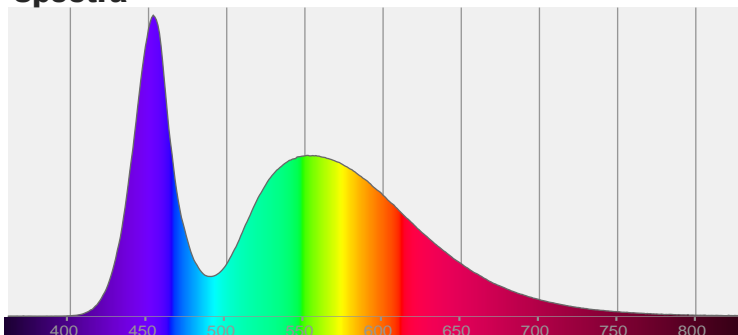
**STABILIZED: YES**

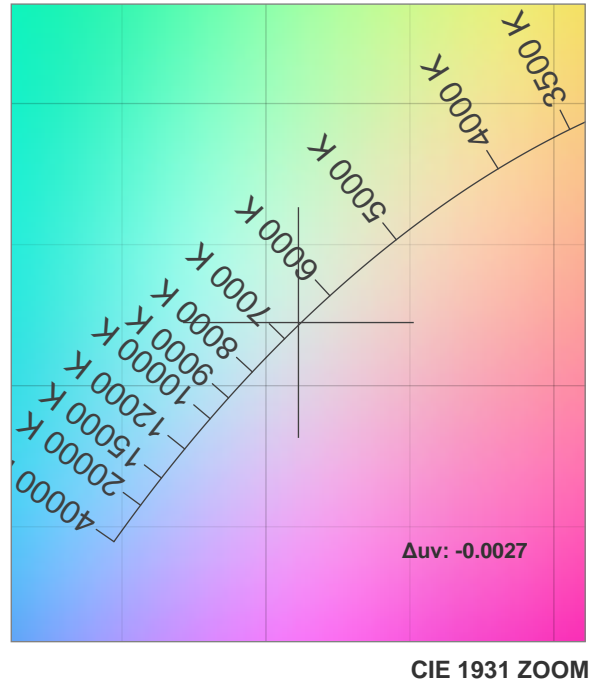
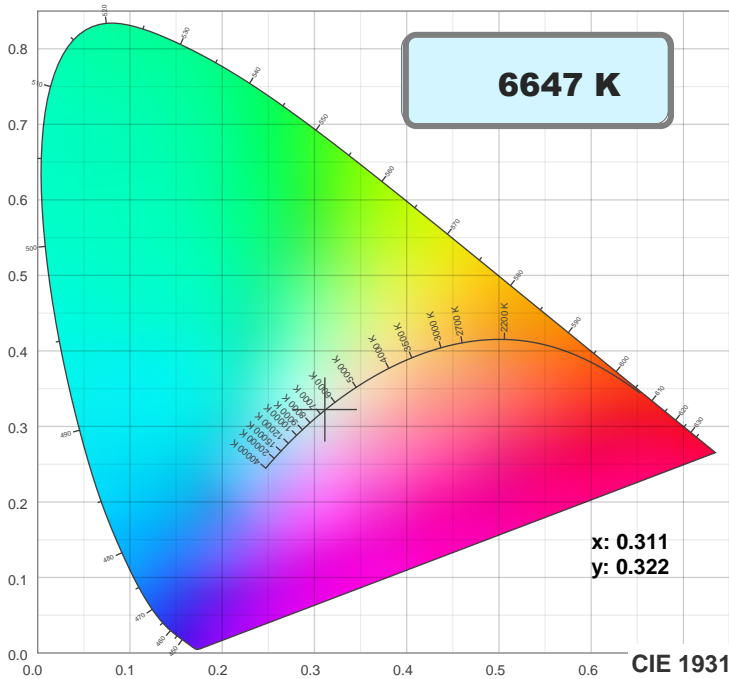
**COLOR (RGBW): WHITE**

**FWHM: 42.1°x9.3°**

**PERFORMED BY: ABDULLAH QURESHI**

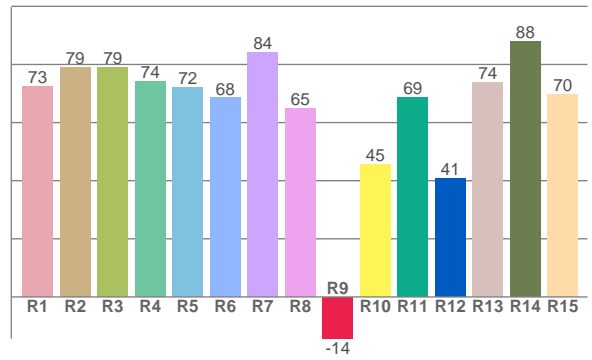
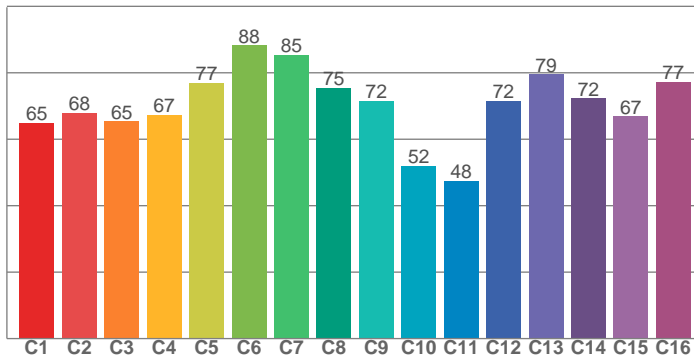
**Spectra**





**TM30: 70.5**

**CRI: 74.3 (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  |
|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|
| 72.6 | 78.9 | 78.8 | 74.2 | 72.2 | 68.5 | 84.3 | 64.9 | -14.3 | 45.4 | 68.8 | 40.8 | 73.9 | 87.8 | 69.8 |

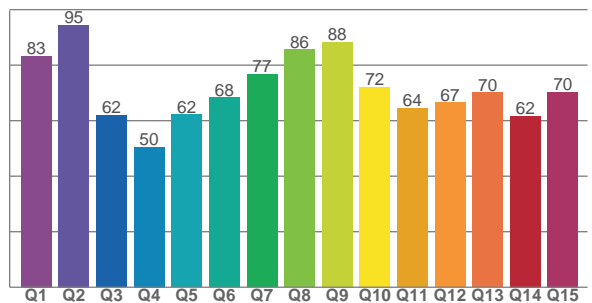
TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 64.9 | 68.0 | 65.4 | 67.4 | 77.1 | 88.3 | 85.5 | 75.4 | 71.5 | 52.0 | 47.5 | 71.6 | 79.5 | 72.4 | 66.9 | 77.3 |

CQS Q values

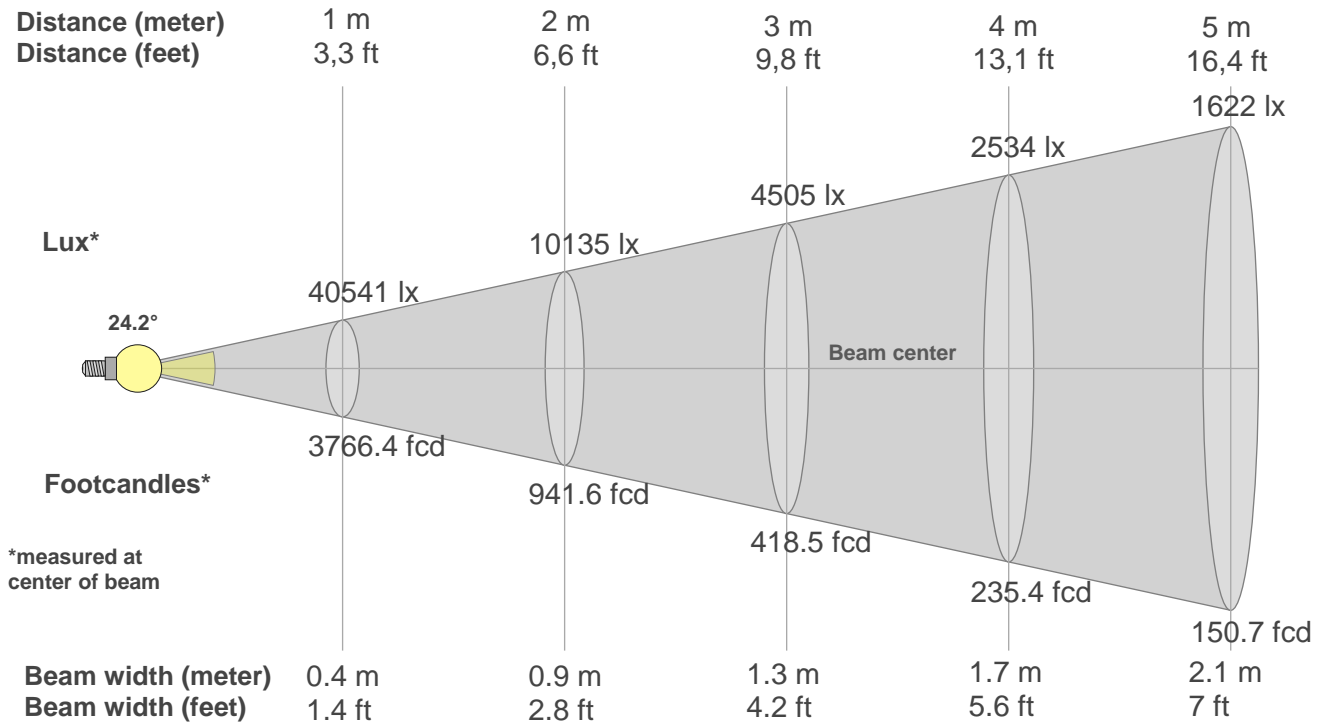
| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 83.3 | 94.5 | 61.9 | 50.5 | 62.1 | 68.3 | 76.7 | 85.6 | 88.4 | 72.2 | 64.5 | 66.5 | 70.2 | 61.7 | 70.4 |

**CQS: 69.5**



## 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                             |
| 6647 K            | 74.3                  | -14.3         | 70.5           | 92.7        | 69.5                | 0.311                     | 0.322                     | 0.199            | 0.310            | -0.0027                         |



### 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 |
| 40541lx   | 10135lx  | 4505lx   | 2534lx   | 1622lx   | 1126lx   | 827lx   | 633lx   | 501lx   | 405lx   | 335lx   | 282lx   | 240lx   | 207lx   | 180lx   | 158lx   | 140lx  | 125lx   | 112lx   | 101lx  |
| 3766.4fcd | 941.6fcd | 418.5fcd | 235.4fcd | 150.7fcd | 104.6fcd | 76.9fcd | 58.9fcd | 46.5fcd | 37.7fcd | 31.1fcd | 26.2fcd | 22.3fcd | 19.2fcd | 16.7fcd | 14.7fcd | 13fcd  | 11.6fcd | 10.4fcd | 9.4fcd |

### 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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 40.5K | 58.2K | 51.2K | 43.5K | 34.9K | 26.0K | 18.9K | 13.5K | 9.2K | 7.1K | 5.1K | 4.5K | 3.9K | 3.6K | 3.4K | 3.2K | 3.1K | 2.9K | 2.6K | 2.3K |
| 100%  | 144%  | 126%  | 107%  | 86%   | 64%   | 47%   | 33%   | 23%  | 17%  | 13%  | 11%  | 10%  | 9%   | 8%   | 8%   | 8%   | 7%   | 6%   | 6%   |

### 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°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 40.5K | 23.5K | 23.4K | 23.4K | 23.3K | 23.2K | 23.0K | 22.8K | 22.6K | 22.2K | 21.8K | 21.3K | 20.7K | 20.0K | 19.2K | 18.2K | 17.2K | 16.2K | 15.1K | 14.0K |
| 100%  | 58%   | 58%   | 58%   | 57%   | 57%   | 57%   | 56%   | 56%   | 55%   | 54%   | 52%   | 51%   | 49%   | 47%   | 45%   | 42%   | 40%   | 37%   | 34%   |

### 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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 40.5K | 58.2K | 51.2K | 43.5K | 34.9K | 26.0K | 18.9K | 13.5K | 9.2K | 7.1K | 5.1K | 4.5K | 3.9K | 3.6K | 3.4K | 3.2K | 3.1K | 2.9K | 2.6K | 2.3K |
| 100%  | 144%  | 126%  | 107%  | 86%   | 64%   | 47%   | 33%   | 23%  | 17%  | 13%  | 11%  | 10%  | 9%   | 8%   | 8%   | 8%   | 7%   | 6%   | 6%   |

### 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°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 40.5K | 23.5K | 23.4K | 23.4K | 23.3K | 23.2K | 23.0K | 22.8K | 22.6K | 22.2K | 21.8K | 21.3K | 20.7K | 20.0K | 19.2K | 18.2K | 17.2K | 16.2K | 15.1K | 14.0K |
| 100%  | 58%   | 58%   | 58%   | 57%   | 57%   | 57%   | 56%   | 56%   | 55%   | 54%   | 52%   | 51%   | 49%   | 47%   | 45%   | 42%   | 40%   | 37%   | 34%   |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 24.2°          | 39.7°           | 64.8°             | 90.2%                        | 86.1%                       |