

**Light efficiency:**



**Light quality:**



**Color temperature:**

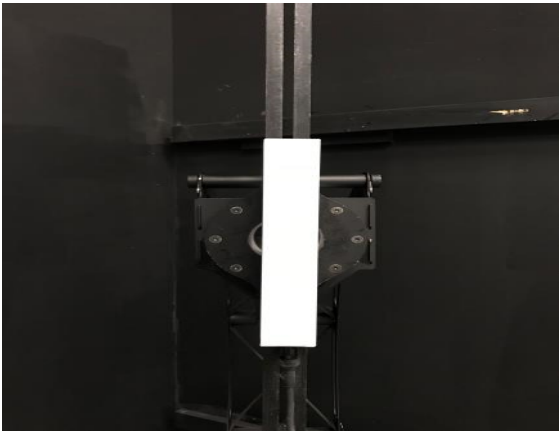


**Output: 169 lm**

**Peak: 34.8 cd**

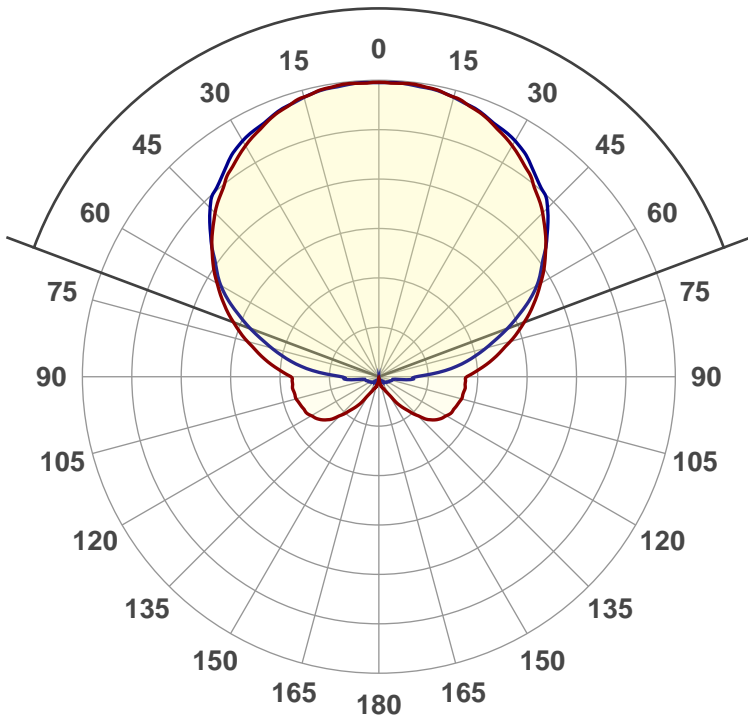
**Power: 4.8 W**

**PF: 1.0**



**138.9°**

**Beam angle**



**Color**



**CIE 1931**  
**x: 0.319**  
**y: 0.265**

**Product name:**

**PH-HL-300-5W-RGBW40K-ELV-HO-CA-FLAT-ALL ON**

**Date and time:**

**7/23/2018 10:49:25 AM**

**Additional Information:**

**LED: RGBW 40K**

**FIXTURE: HL GEN 3 300MM**

**LENS: YES**

**PROFILE: HL-DL**

**DIFFUSER: FLAT**

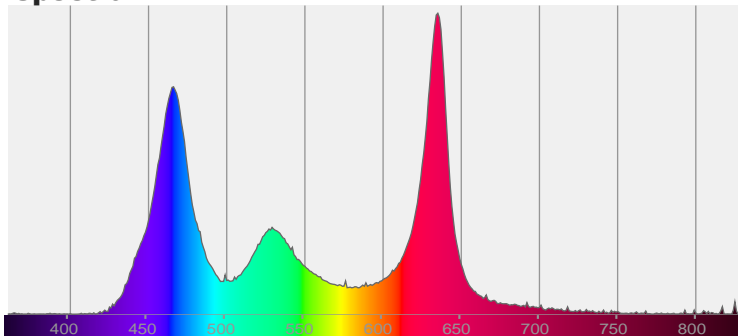
**COLOR-AMP: ON**

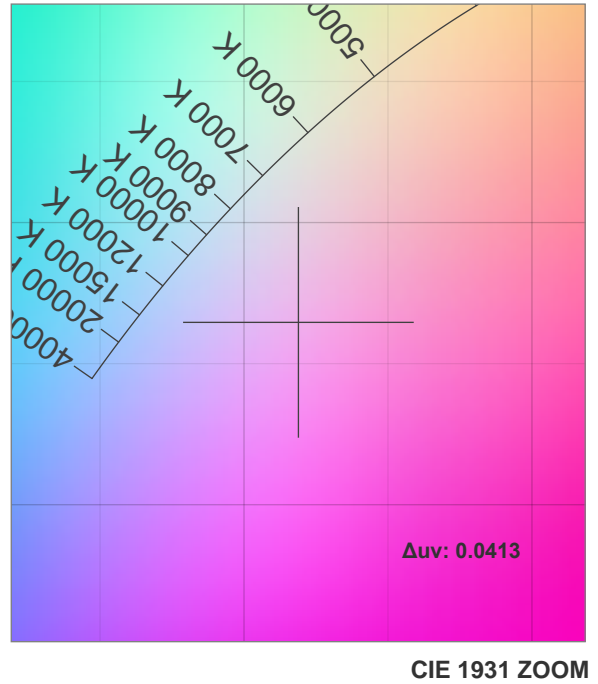
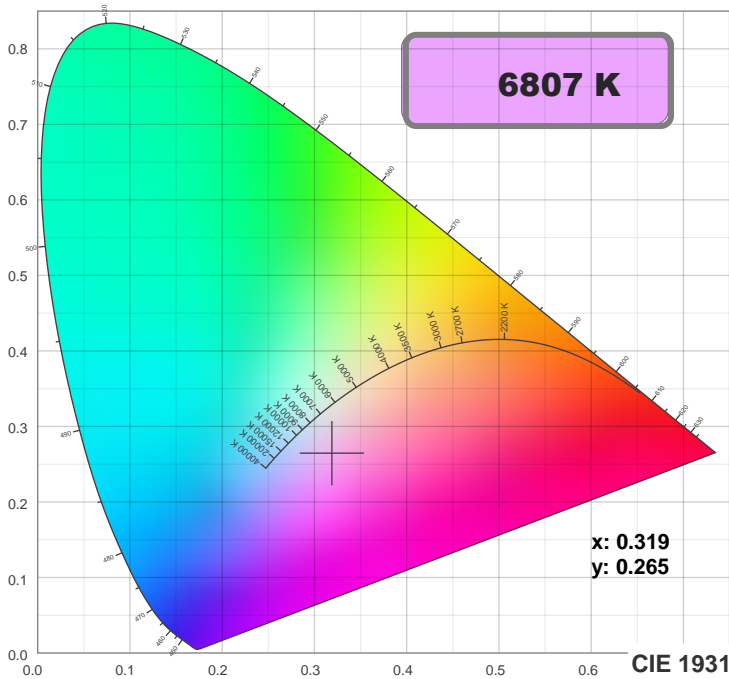
**STABILIZED: YES**

**COLOR (RGBW): ALL**

**LUMINANCE: 2471 cd/m2**

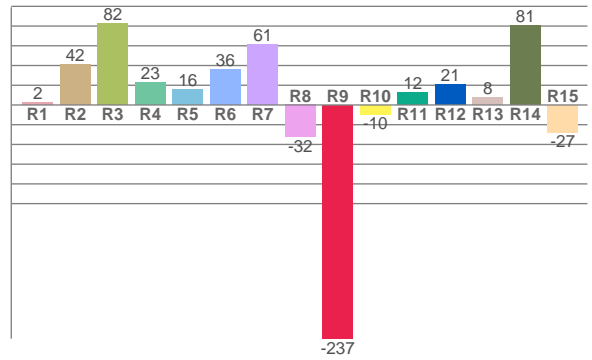
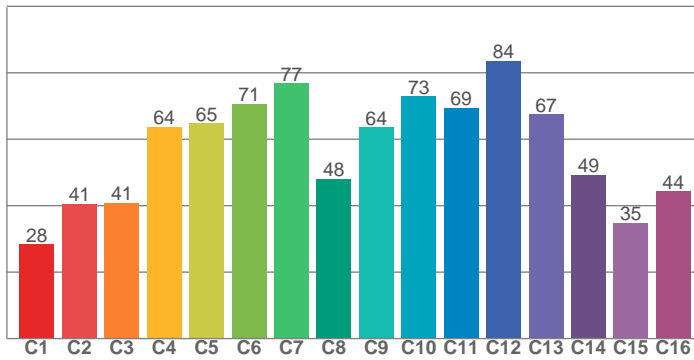
**Spectra**





**TM30: 57.2**

**CRI: 28.7 (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   |
|-----|------|------|------|------|------|------|-------|--------|------|------|------|-----|------|-------|
| 2.4 | 41.5 | 82.4 | 22.6 | 15.7 | 36.5 | 61.2 | -32.5 | -236.8 | -9.6 | 12.5 | 20.9 | 8.0 | 81.0 | -27.4 |

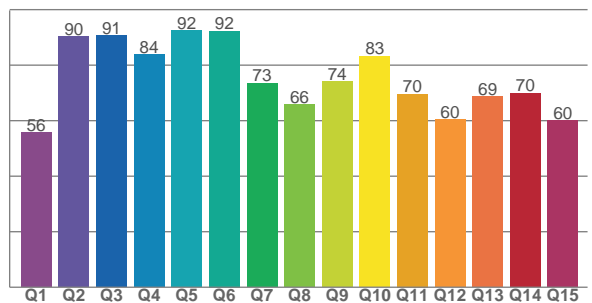
**TM30 C values, 16 binned values out of total of 99 C values**

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 28.3 | 40.5 | 40.9 | 63.7 | 64.8 | 70.7 | 76.8 | 48.0 | 63.6 | 73.0 | 69.4 | 83.7 | 67.5 | 49.3 | 34.8 | 44.3 |

**CQS Q values**

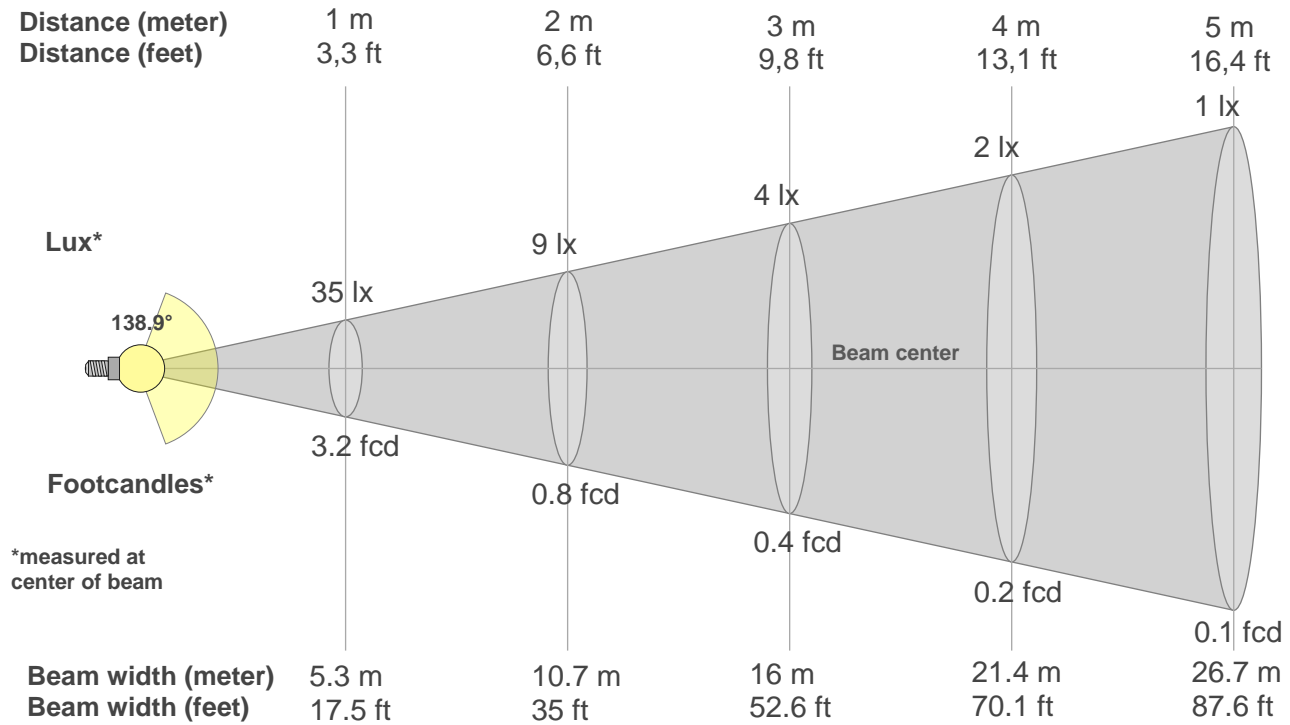
| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 55.7 | 90.4 | 90.7 | 83.8 | 92.4 | 92.4 | 73.5 | 65.8 | 74.1 | 83.2 | 69.6 | 60.4 | 68.7 | 69.8 | 60.1 |

**CQS: 72.5**



## 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                             |
| 6807 K            | 28.7                  | -236.8        | 57.2           | 116.1       | 72.5                | 0.319                     | 0.265                     | 0.230            | 0.287            | 0.0413                          |



### 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 |
| 35lx   | 9lx    | 4lx    | 2lx    | 1lx    | 1lx    | 1lx    | 1lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    |
| 3.2fcd | 0.8fcd | 0.4fcd | 0.2fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   |

### Intensities in 0° c-plane

| 0°   | 9°   | 18°  | 27°  | 36°  | 45°  | 54°  | 63°  | 72°  | 81°  | 90°  | 99°  | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 34.6 | 34.6 | 33.7 | 32.0 | 29.9 | 27.3 | 24.2 | 20.9 | 17.3 | 13.7 | 10.4 | 10.2 | 9.9  | 9.5  | 8.5  | 6.5  | 4.1  | 2.1  | 1.3  | 0.7  |
| 100% | 100% | 97%  | 93%  | 86%  | 79%  | 70%  | 60%  | 50%  | 40%  | 30%  | 29%  | 29%  | 27%  | 25%  | 19%  | 12%  | 6%   | 4%   | 2%   |

### Intensities in 90° c-plane

| 0°   | 9°   | 18°  | 27°  | 36°  | 45°  | 54°  | 63°  | 72°  | 81°  | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|------|------|------|------|------|------|------|------|
| 34.6 | 34.5 | 33.7 | 32.5 | 30.6 | 28.1 | 24.0 | 19.9 | 14.7 | 10.0 | 4.5 | 1.9 | 1.5  | 1.3  | 1.1  | 0.9  | 0.7  | 0.6  | 0.5  | 0.4  |
| 100% | 100% | 97%  | 94%  | 88%  | 81%  | 69%  | 57%  | 42%  | 29%  | 13% | 5%  | 4%   | 4%   | 3%   | 3%   | 2%   | 2%   | 1%   | 1%   |

### Intensities in 180° c-plane

| 0°   | 9°   | 18°  | 27°  | 36°  | 45°  | 54°  | 63°  | 72°  | 81°  | 90°  | 99°  | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 34.6 | 34.6 | 33.7 | 32.0 | 29.9 | 27.3 | 24.2 | 20.9 | 17.3 | 13.7 | 10.4 | 10.2 | 9.9  | 9.5  | 8.5  | 6.5  | 4.1  | 2.1  | 1.3  | 0.7  |
| 100% | 100% | 97%  | 93%  | 86%  | 79%  | 70%  | 60%  | 50%  | 40%  | 30%  | 29%  | 29%  | 27%  | 25%  | 19%  | 12%  | 6%   | 4%   | 2%   |

### Intensities in 270° c-plane

| 0°   | 9°   | 18°  | 27°  | 36°  | 45°  | 54°  | 63°  | 72°  | 81°  | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|------|------|------|------|------|------|------|------|
| 34.6 | 34.5 | 33.7 | 32.5 | 30.6 | 28.1 | 24.0 | 19.9 | 14.7 | 10.0 | 4.5 | 1.9 | 1.5  | 1.3  | 1.1  | 0.9  | 0.7  | 0.6  | 0.5  | 0.4  |
| 100% | 100% | 97%  | 94%  | 88%  | 81%  | 69%  | 57%  | 42%  | 29%  | 13% | 5%  | 4%   | 4%   | 3%   | 3%   | 2%   | 2%   | 1%   | 1%   |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 138.9°         | 262°            | 324.1°            | 53.4%                        | 34.2%                       |