

astro

PHOTOMETRIC
TEST REPORT

Light efficiency:

49 Lumen/Watt

Light quality:

CRI: 80.3

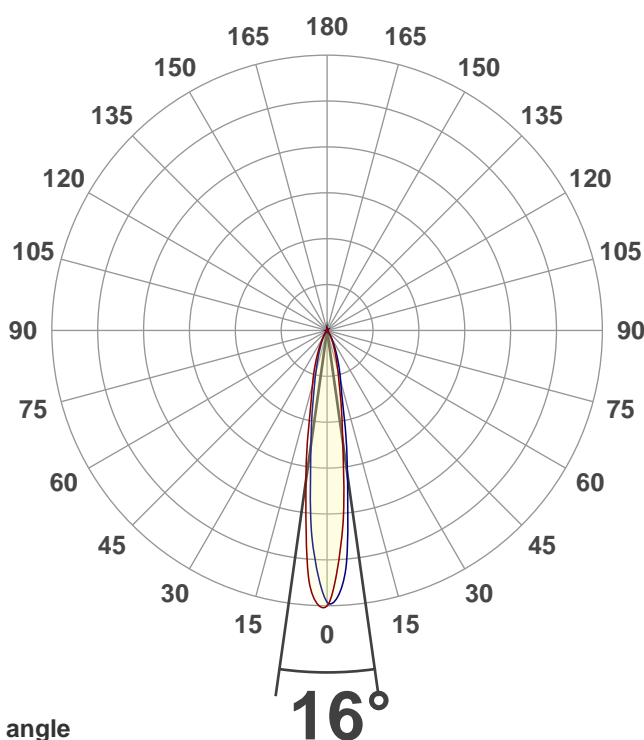
Color temperature:

2717 K

Output: 166 lm
Peak: 1115 cd

Power: 3.4 W
PF: 0.58

12 PLANES



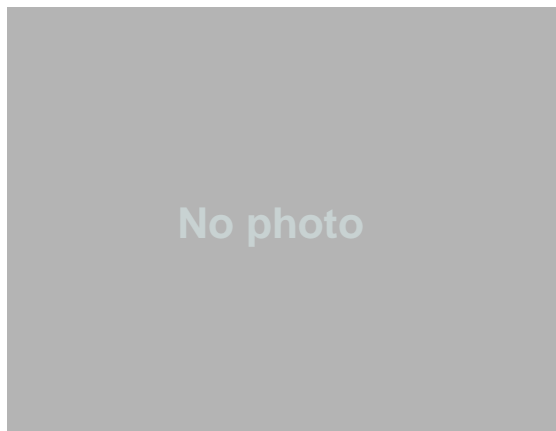
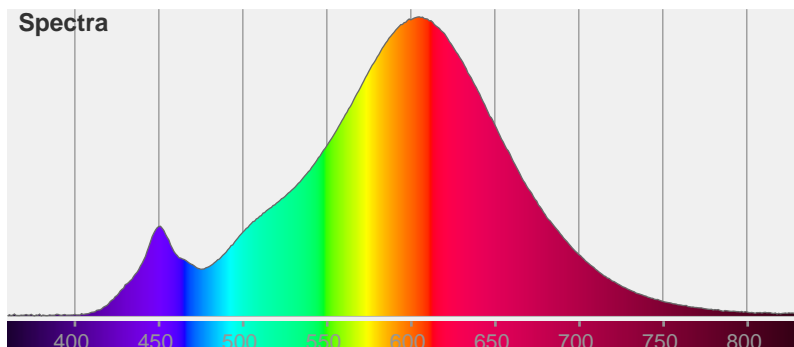
Beam angle

Color



CIE1931
x: 0.462
y: 0.416

Spectra



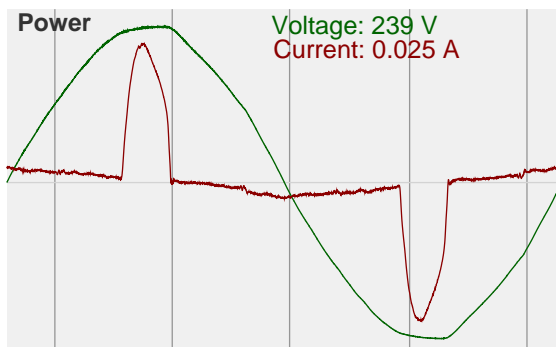
Product name:

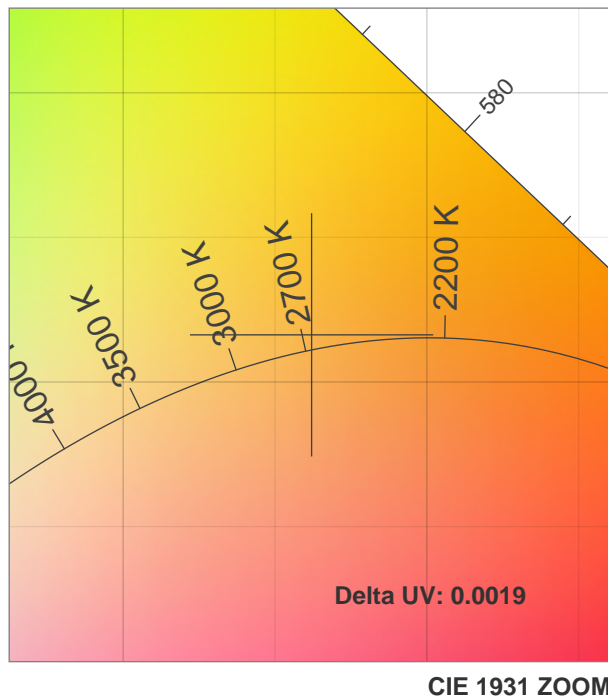
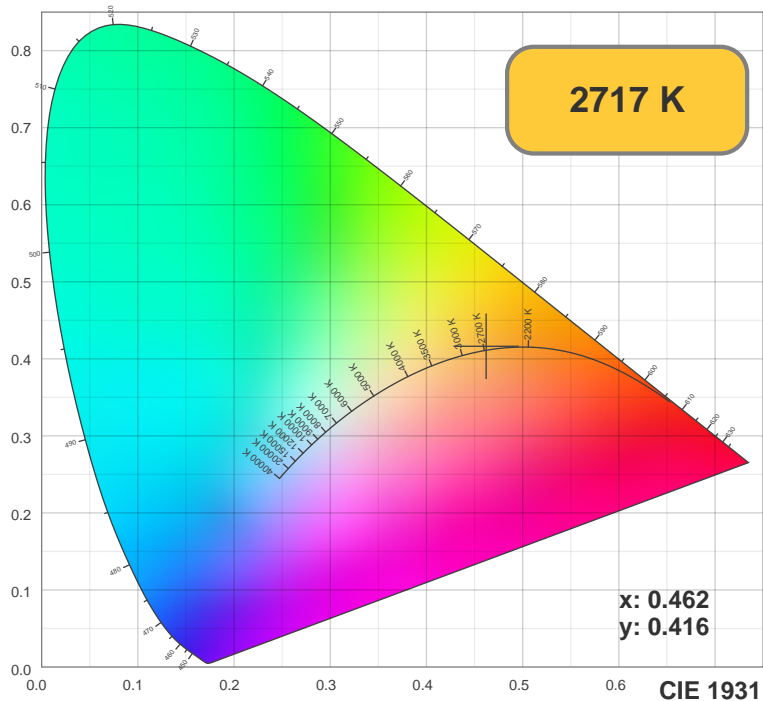
L17947 Astro

SKU1407008 - Micro
Recess Switched

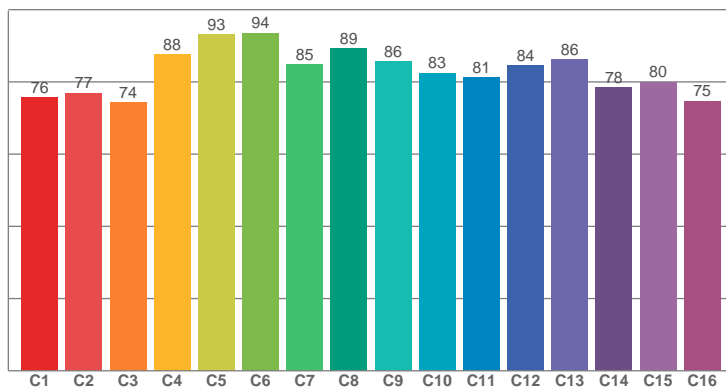
Date and time:

30/10/2018 15:09:22

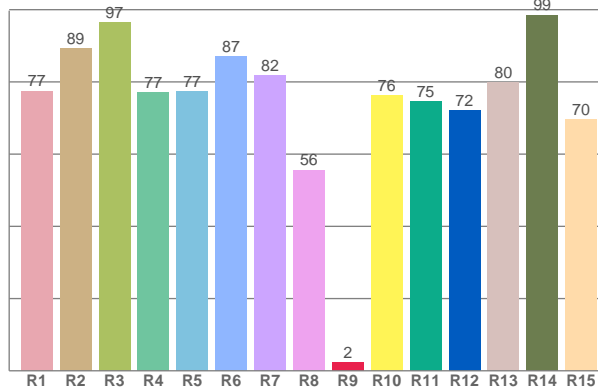




TM30: 82.8



CRI: 80.3 (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 |
|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| 77.47 | 89.23 | 96.55 | 77.00 | 77.35 | 86.96 | 81.88 | 55.63 | 2.34 | 76.24 | 74.59 | 72.09 | 79.83 | 98.55 | 69.65 |

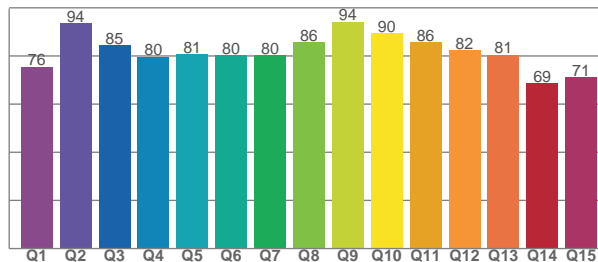
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 75.64 | 76.95 | 74.38 | 87.60 | 93.23 | 93.53 | 84.83 | 89.29 | 85.69 | 82.51 | 81.27 | 84.49 | 86.21 | 78.40 | 79.97 | 74.77 |

CQS Q values

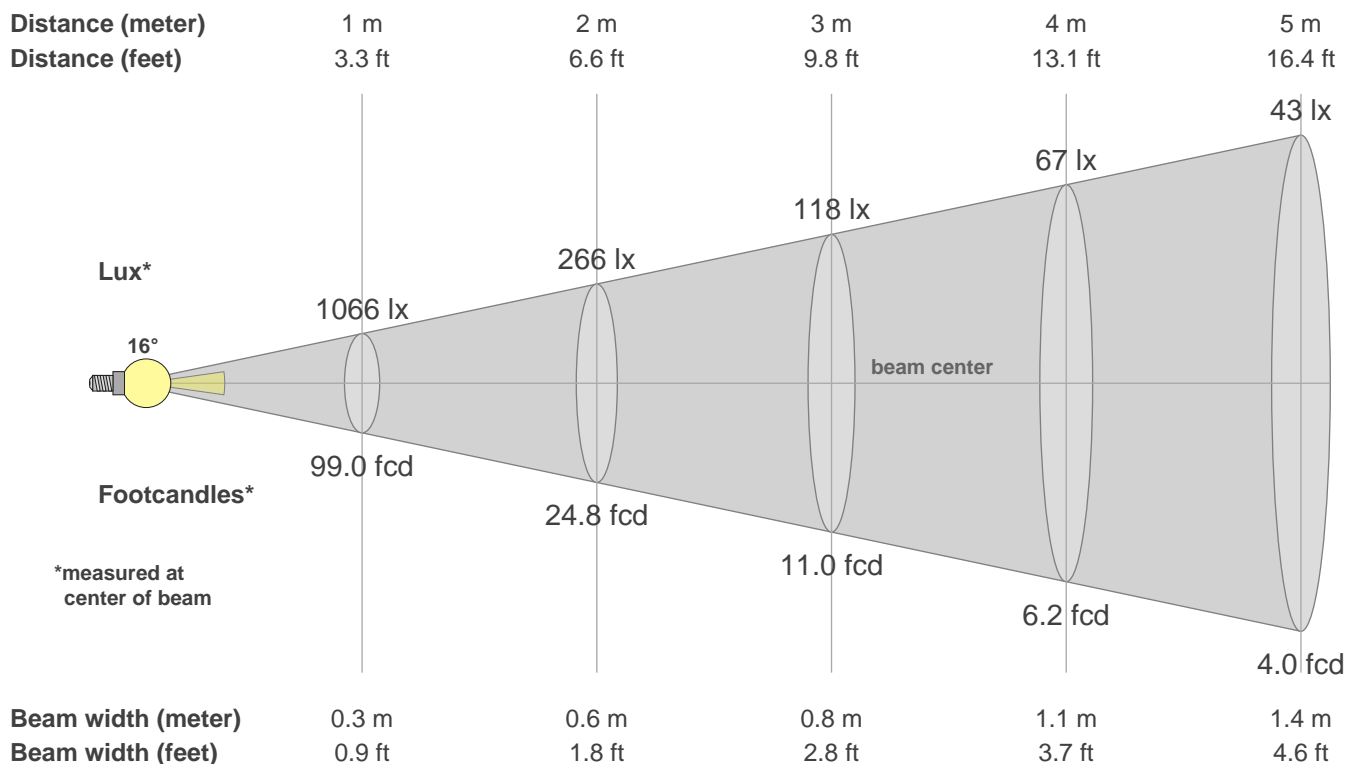
| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 75.57 | 93.70 | 84.54 | 79.75 | 80.67 | 80.38 | 80.41 | 85.69 | 94.26 | 89.58 | 85.58 | 82.34 | 80.55 | 68.83 | 71.22 |

CQS: 80.7



Color parameters

| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | x | y | u | v | Duv |
|--------|------|--------|---------|---------|------|-----|-----|-----|-----|--------|
| 2717 K | 80.3 | 2.3 | 82.8 | 94.1 | 80.7 | 0.5 | 0.4 | 0.3 | 0.4 | 0.0019 |



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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1066 | 969 | 825 | 657 | 477 | 344 | 259 | 190 | 153 | 117 | 95 | 73 | 59 | 46 | 36 | 27 | 21 | 15 | 11 | 9 |
| 100% | 91% | 77% | 62% | 45% | 32% | 24% | 18% | 14% | 11% | 9% | 7% | 6% | 4% | 3% | 3% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1066 | 1030 | 969 | 803 | 603 | 448 | 326 | 236 | 194 | 156 | 127 | 99 | 79 | 60 | 47 | 35 | 27 | 20 | 15 | 12 |
| 100% | 97% | 91% | 75% | 57% | 42% | 31% | 22% | 18% | 15% | 12% | 9% | 7% | 6% | 4% | 3% | 3% | 2% | 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° |
|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1066 | 1047 | 1008 | 815 | 616 | 470 | 339 | 258 | 209 | 167 | 134 | 103 | 81 | 59 | 47 | 35 | 27 | 19 | 14 | 11 |
| 100% | 98% | 95% | 76% | 58% | 44% | 32% | 24% | 20% | 16% | 13% | 10% | 8% | 6% | 4% | 3% | 2% | 2% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1066 | 958 | 838 | 662 | 479 | 361 | 268 | 202 | 158 | 121 | 95 | 72 | 58 | 44 | 34 | 25 | 19 | 14 | 10 | 8 |
| 100% | 90% | 79% | 62% | 45% | 34% | 25% | 19% | 15% | 11% | 9% | 7% | 5% | 4% | 3% | 2% | 2% | 1% | 1% | 1% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2.5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 16.0° | 40.8° | 61.8° | 97.1% | 96.2% |