

# СЕВЕРО-ЗАПАДНАЯ СВЕТОТЕХНИЧЕСКАЯ ЛАБОРАТОРИЯ

Эффективность света:

**127 Lumen/Watt**

Качество света:

**CRI: 81,8**

Цветовая температура:

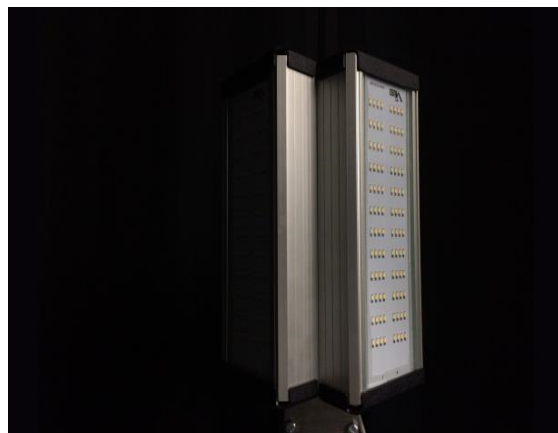
**4122 K**

Поток: 8324 lm

Интенс.: 1978 cd

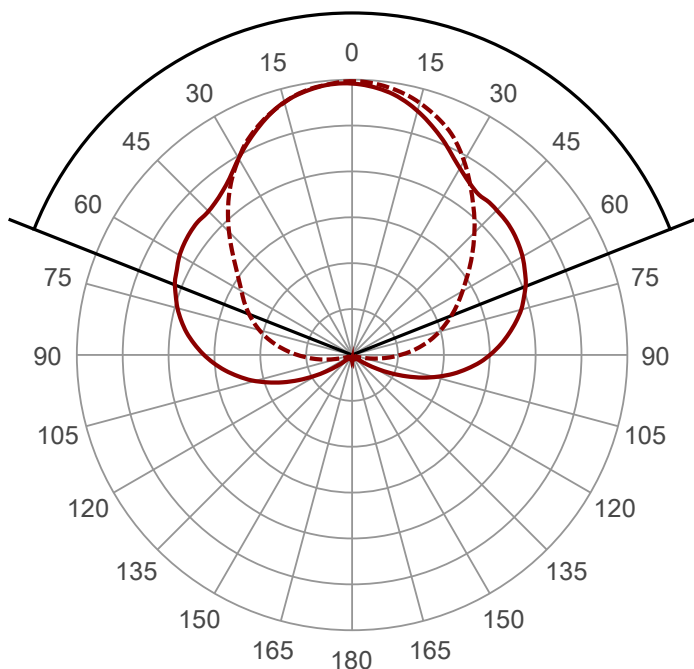
Мощн.: 65,4 W

КПД: 0,96



Угол пучка

**136,9°** (3 C-PLANES)



Название продукта:

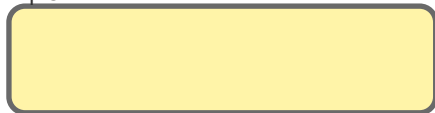
СС

М1-МК-Е-64-250.195.160-4-0-67

Дата и время:

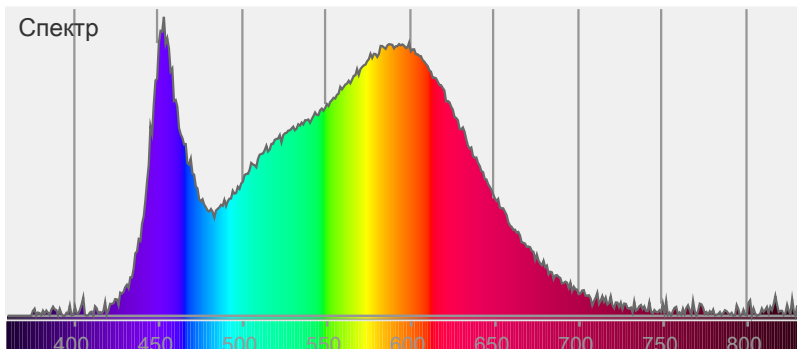
22.03.2016 10:21:37

Цвет



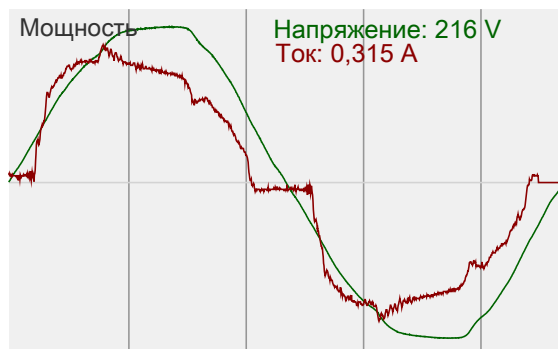
CIE1931  
x: 0,377  
y: 0,379

Спектр

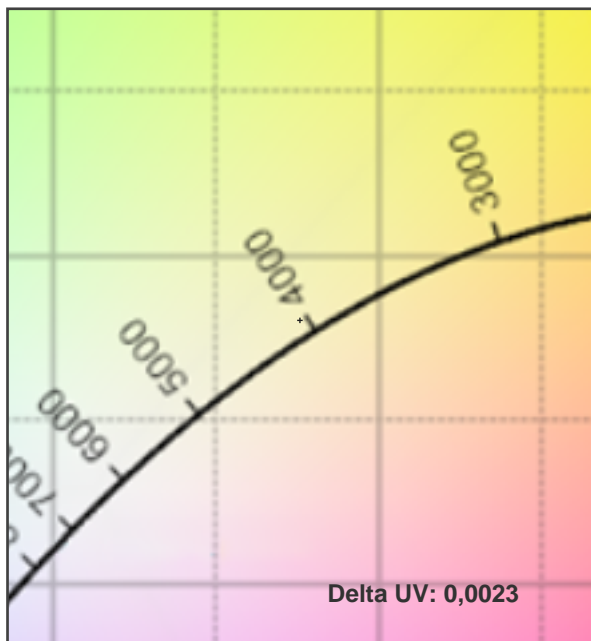
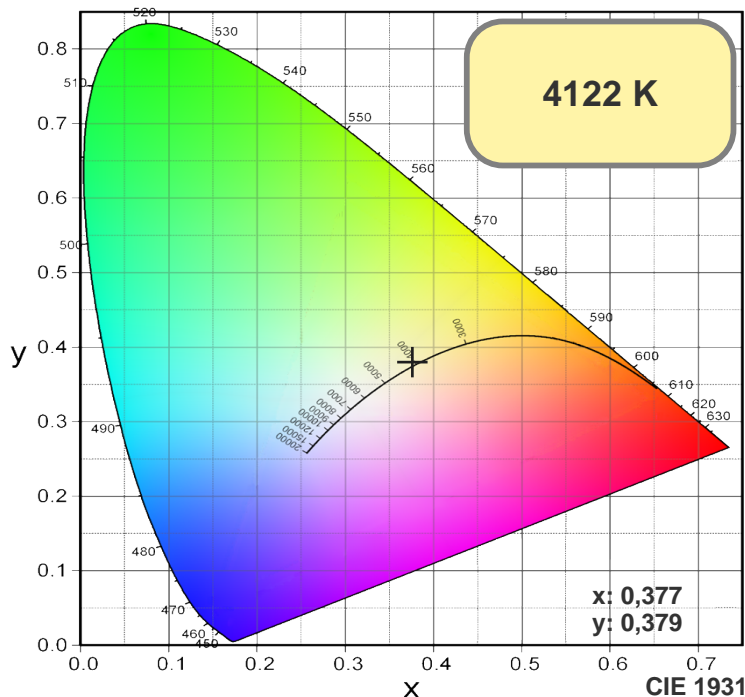


Мощность

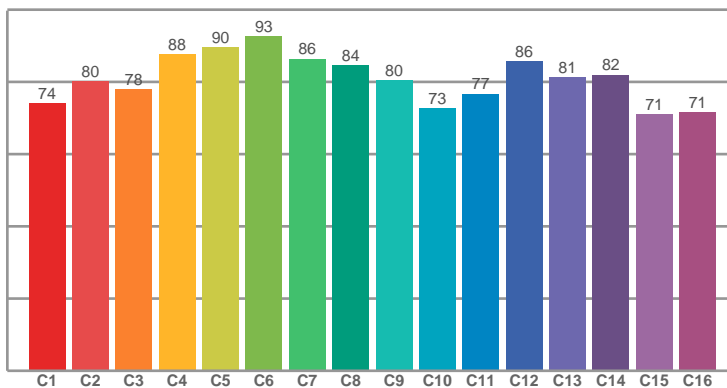
Напряжение: 216 V  
Ток: 0,315 A



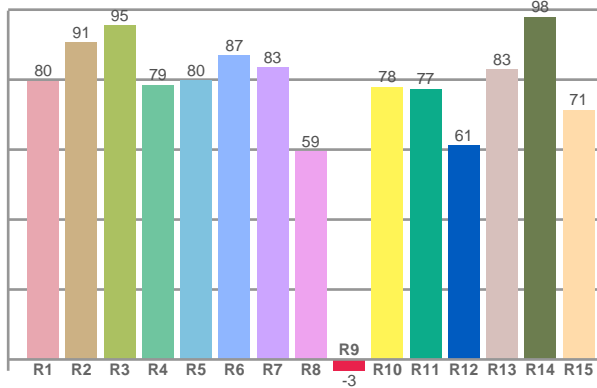
# СЕВЕРО-ЗАПАДНАЯ СВЕТОТЕХНИЧЕСКАЯ ЛАБОРАТОРИЯ



TM30: 80,8



CRI: 81,8 (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   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 79,72 | 90,71 | 95,48 | 78,53 | 79,80 | 86,92 | 83,48 | 59,47 | -3,24 | 77,97 | 77,43 | 61,24 | 82,89 | 97,95 | 71,42 |

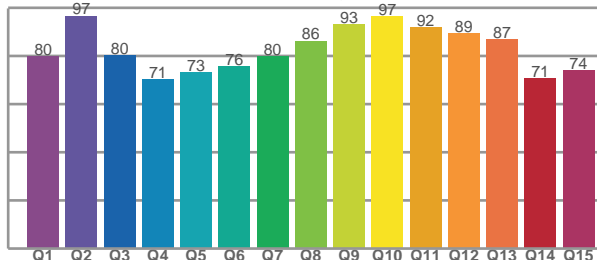
TM30 C values, 16 binned values out of total of 99 C values

| C1    | C2    | C3    | C4    | C5    | C6    | C7    | C8    | C9    | C10   | C11   | C12   | C13   | C14   | C15   | C16   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 74,07 | 80,04 | 77,93 | 87,68 | 89,64 | 92,55 | 86,35 | 84,49 | 80,49 | 72,65 | 76,69 | 85,66 | 81,21 | 81,92 | 70,91 | 71,45 |

CQS Q values

| Q1    | Q2    | Q3    | Q4    | Q5    | Q6    | Q7    | Q8    | Q9    | Q10   | Q11   | Q12   | Q13   | Q14   | Q15   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 79,76 | 96,74 | 80,32 | 70,54 | 73,15 | 75,63 | 79,97 | 86,34 | 93,33 | 96,52 | 91,96 | 89,47 | 87,08 | 70,74 | 74,21 |

CQS: 80,9



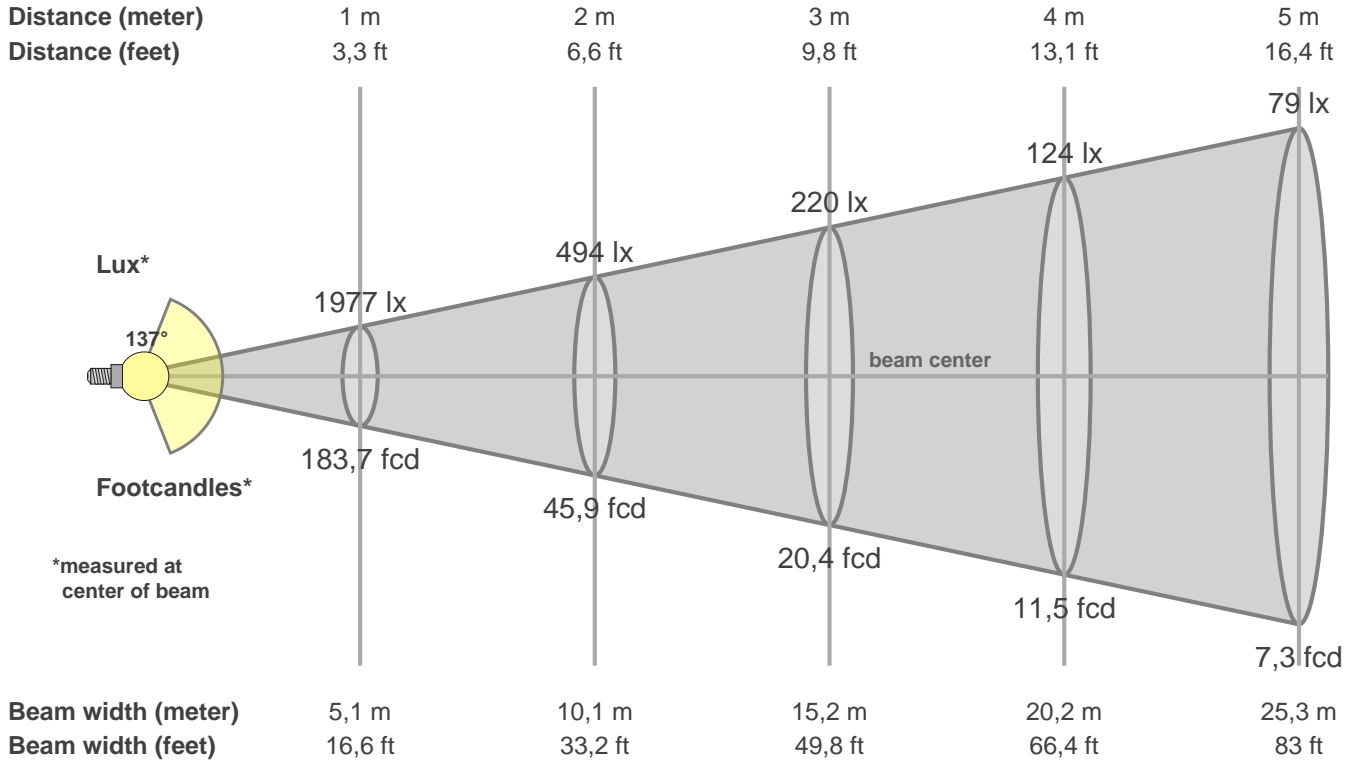
## Color parameters

| CCT    | CRI  | CRI R9 | TM30 Rf | TM30 Rg | CQS  | x   | y   | u   | v   | Duv    |
|--------|------|--------|---------|---------|------|-----|-----|-----|-----|--------|
| 4122 K | 81,8 | -3,2   | 80,8    | 92,0    | 80,9 | 0,4 | 0,4 | 0,2 | 0,3 | 0,0023 |

# СЕВЕРО-ЗАПАДНАЯ СВЕТОТЕХНИЧЕСКАЯ ЛАБОРАТОРИЯ

## Beam details

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### 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° |
|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|
| 1977 | 1958 | 1867 | 1711 | 1552 | 1483 | 1477 | 1429 | 1350 | 1236 | 1079 | 883 | 647  | 378  | 142  | 36   | 32   | 31   | 33   | 32   |
| 100% | 99%  | 94%  | 87%  | 78%  | 75%  | 75%  | 72%  | 68%  | 63%  | 55%  | 45% | 33%  | 19%  | 7%   | 2%   | 2%   | 2%   | 2%   | 2%   |

### Intensities in 60° c-plane

| 0°   | 9°   | 18°  | 27°  | 36°  | 45°  | 54°  | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 1977 | 1946 | 1852 | 1707 | 1499 | 1258 | 1033 | 881 | 743 | 582 | 395 | 212 | 71   | 31   | 25   | 29   | 31   | 31   | 32   | 34   |
| 100% | 98%  | 94%  | 86%  | 76%  | 64%  | 52%  | 45% | 38% | 29% | 20% | 11% | 4%   | 2%   | 1%   | 1%   | 2%   | 2%   | 2%   | 2%   |

### 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° |
|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|
| 1977 | 1924 | 1790 | 1622 | 1506 | 1492 | 1470 | 1410 | 1315 | 1176 | 1005 | 790 | 534  | 263  | 74   | 33   | 35   | 34   | 33   | 30   |
| 100% | 97%  | 91%  | 82%  | 76%  | 75%  | 74%  | 71%  | 66%  | 59%  | 51%  | 40% | 27%  | 13%  | 4%   | 2%   | 2%   | 2%   | 2%   | 2%   |

### Intensities in 240° c-plane

| 0°   | 9°   | 18°  | 27°  | 36°  | 45°  | 54°  | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 1977 | 1943 | 1847 | 1690 | 1467 | 1251 | 1045 | 868 | 707 | 539 | 349 | 169 | 49   | 29   | 30   | 29   | 32   | 32   | 32   | 33   |
| 100% | 98%  | 93%  | 85%  | 74%  | 63%  | 53%  | 44% | 36% | 27% | 18% | 9%  | 2%   | 1%   | 2%   | 1%   | 2%   | 2%   | 2%   | 2%   |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 136,9°         | 212,5°          | 233,3°            | 54,2%                        | 35,5%                       |