

Light efficiency:

88 Lumen/Watt

Light quality:

CRI: 83.3

Color temperature:

2942 K

Output: 1100 lm

Peak: 939 cd

Power: 12.5 W

PF: 0.95



Beam angle

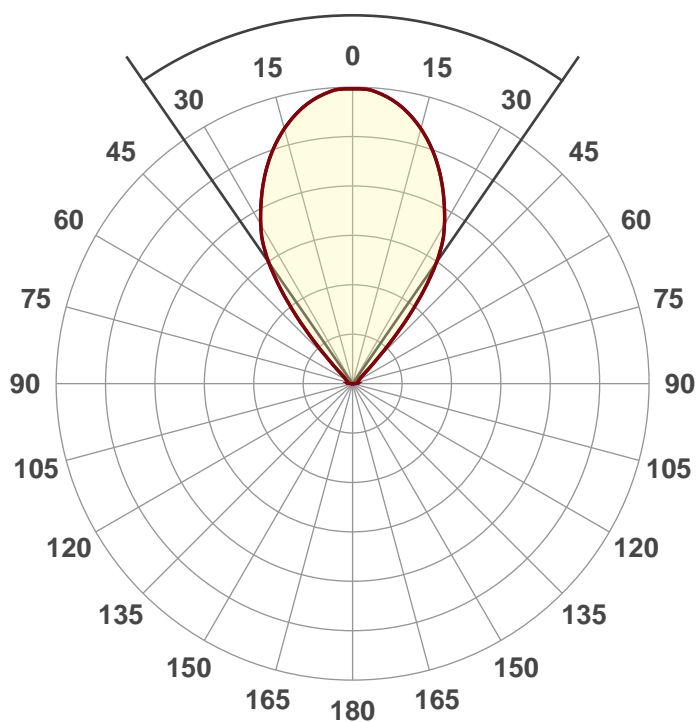
69.3°

Product name:

NU3-QD-XTM19-13LM-30K-83-HE70-  
NL-120-DIM10-RET-WH-WH

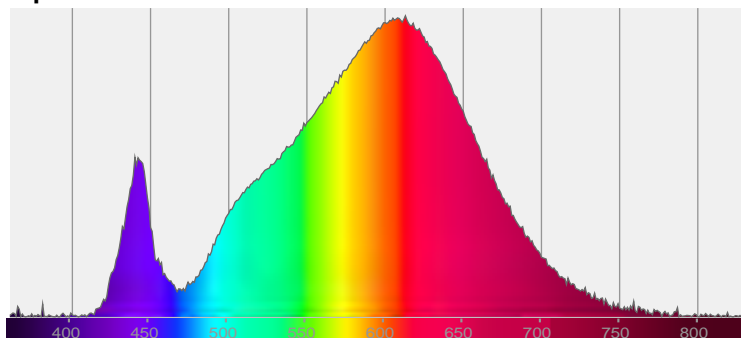
Date and time:

6/21/2017 1:45:28 PM

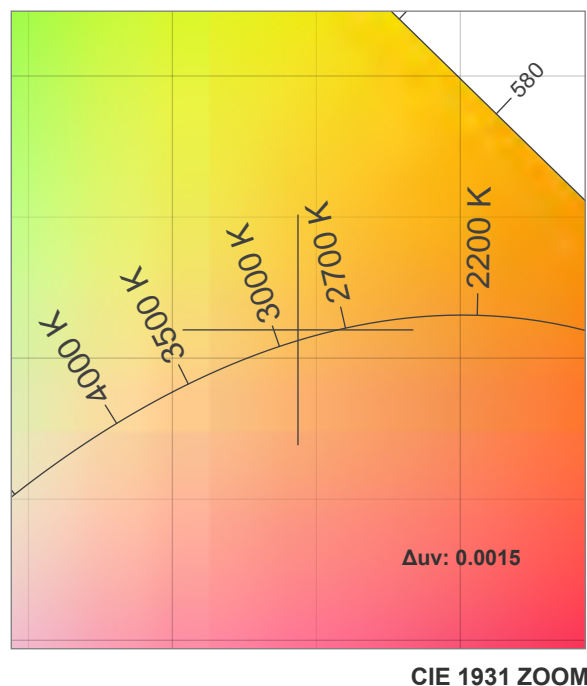
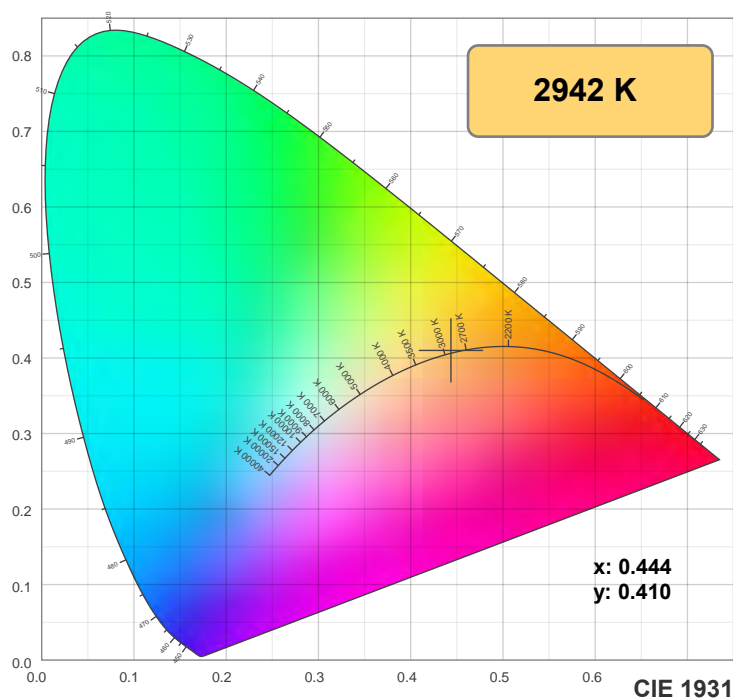


CIE 1931  
x: 0.444  
y: 0.410

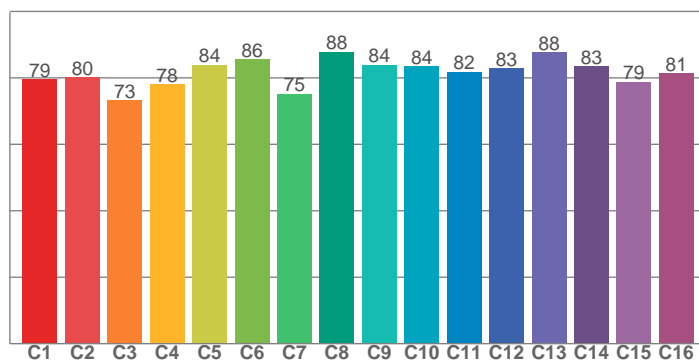
Spectra



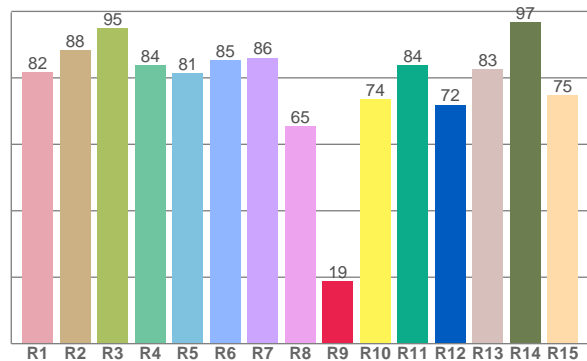
## Color details



TM30: 81.5



CRI: 83.3 (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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.6 | 88.2 | 94.9 | 83.8 | 81.3 | 85.4 | 86.0 | 65.4 | 18.7 | 73.6 | 83.7 | 71.9 | 82.5 | 96.8 | 74.8 |

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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.5 | 80.1 | 73.3 | 78.0 | 83.8 | 85.6 | 75.1 | 87.9 | 84.0 | 83.5 | 81.8 | 82.9 | 87.7 | 83.4 | 78.7 | 81.3 |

## Color parameters

| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | 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     | x                         | y                         | u                | v                | Δuv                             |
| 2942 K            | 83.3                  | 18.7          | 81.5           | 99.5        | 0.444                     | 0.410                     | 0.252            | 0.350            | 0.0015                          |

## TM30 details

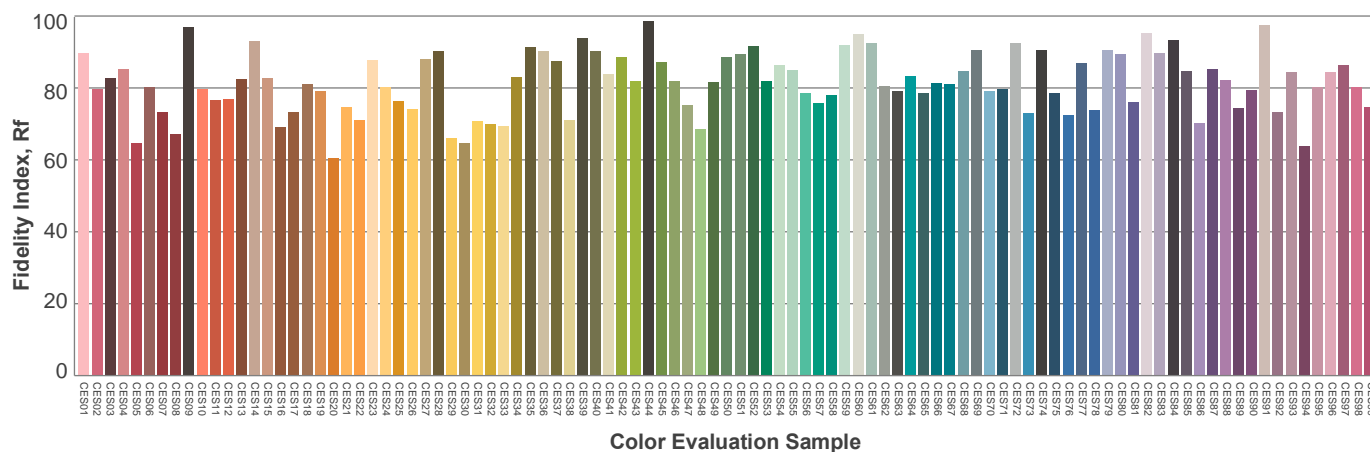
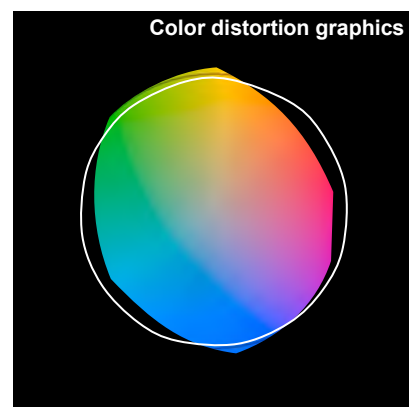
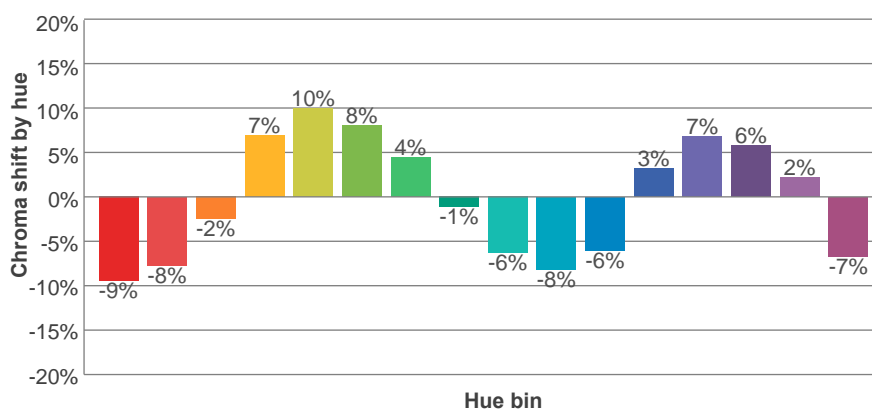
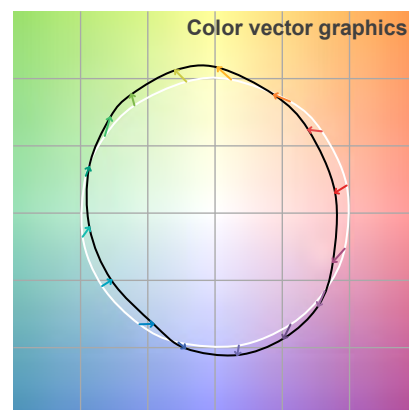
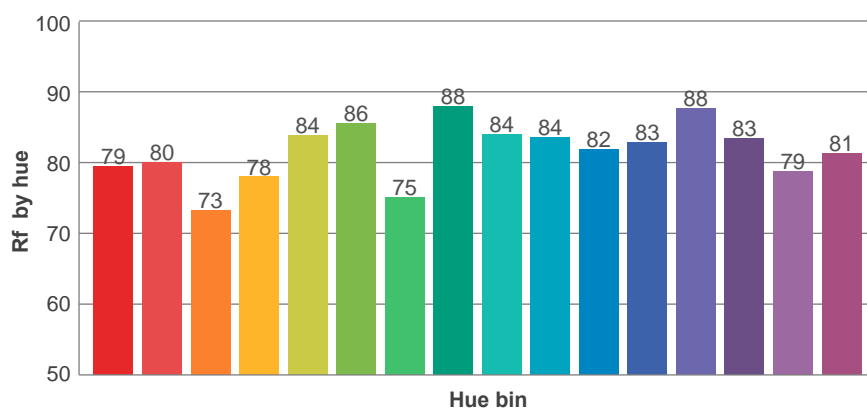
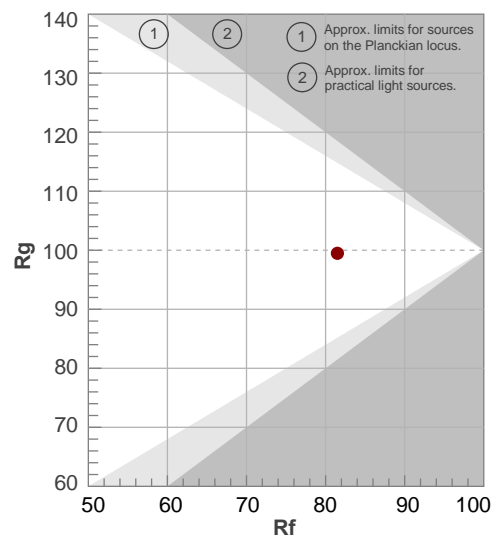
**Rf 81.5**

Fidelity index Rf

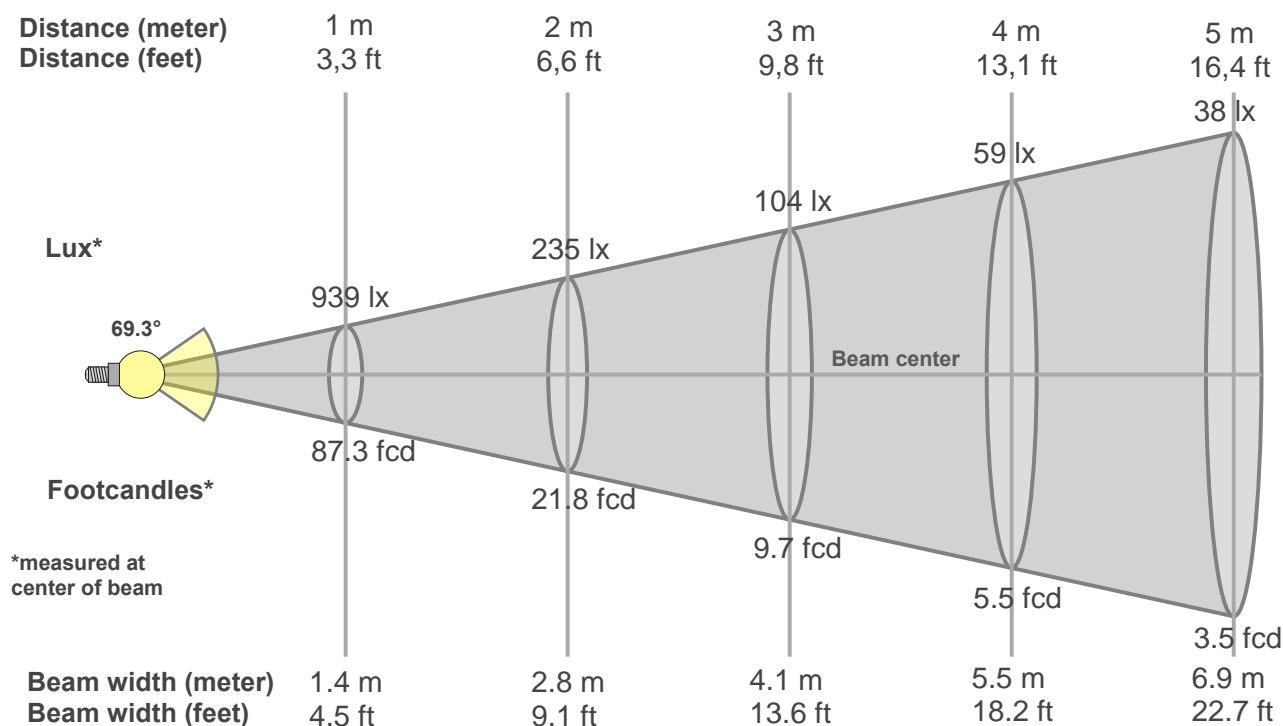
**Rg 99.5**

Gamut index Rg

| Hue Bin | R <sub>f</sub> | Graphic shifts (%) |      |
|---------|----------------|--------------------|------|
|         |                | Chroma             | Hue  |
| 1       | 79             | -9%                | -4%  |
| 2       | 80             | -8%                | 7%   |
| 3       | 73             | -2%                | 13%  |
| 4       | 78             | 7%                 | 12%  |
| 5       | 84             | 10%                | 7%   |
| 6       | 86             | 8%                 | -3%  |
| 7       | 75             | 4%                 | -14% |
| 8       | 88             | -1%                | -7%  |
| 9       | 84             | -6%                | -6%  |
| 10      | 84             | -8%                | 0%   |
| 11      | 82             | -6%                | 8%   |
| 12      | 83             | 3%                 | 6%   |
| 13      | 88             | 7%                 | -3%  |
| 14      | 83             | 6%                 | -10% |
| 15      | 79             | 2%                 | -12% |
| 16      | 81             | -7%                | -12% |



## 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 |
| 939lx   | 235lx   | 104lx  | 59lx   | 38lx   | 26lx   | 19lx   | 15lx   | 12lx   | 9lx    | 8lx    | 7lx    | 6lx    | 5lx    | 4lx    | 4lx    | 3lx    | 3lx    | 3lx    | 2lx    |
| 87.3fcd | 21.8fcd | 9.7fcd | 5.5fcd | 3.5fcd | 2.4fcd | 1.8fcd | 1.4fcd | 1.1fcd | 0.9fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.3fcd | 0.2fcd | 0.2fcd |

### 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 939  | 939  | 934 | 925 | 912 | 896 | 876 | 853 | 827 | 799 | 769 | 735 | 699 | 662 | 624 | 585 | 543 | 489 | 423 | 349 |
| 100% | 100% | 99% | 98% | 97% | 95% | 93% | 91% | 88% | 85% | 82% | 78% | 74% | 70% | 66% | 62% | 58% | 52% | 45% | 37% |

### 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 939  | 939  | 934 | 925 | 912 | 896 | 876 | 853 | 827 | 799 | 769 | 735 | 699 | 662 | 624 | 585 | 543 | 489 | 423 | 349 |
| 100% | 100% | 99% | 98% | 97% | 95% | 93% | 91% | 88% | 85% | 82% | 78% | 74% | 70% | 66% | 62% | 58% | 52% | 45% | 37% |

### 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 939  | 939  | 934 | 925 | 912 | 896 | 876 | 853 | 827 | 799 | 769 | 735 | 699 | 662 | 624 | 585 | 543 | 489 | 423 | 349 |
| 100% | 100% | 99% | 98% | 97% | 95% | 93% | 91% | 88% | 85% | 82% | 78% | 74% | 70% | 66% | 62% | 58% | 52% | 45% | 37% |

### 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 939  | 939  | 934 | 925 | 912 | 896 | 876 | 853 | 827 | 799 | 769 | 735 | 699 | 662 | 624 | 585 | 543 | 489 | 423 | 349 |
| 100% | 100% | 99% | 98% | 97% | 95% | 93% | 91% | 88% | 85% | 82% | 78% | 74% | 70% | 66% | 62% | 58% | 52% | 45% | 37% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 69.3°          | 91.6°           | 121.3°            | 94.1%                        | 88.9%                       |