

Light quality:

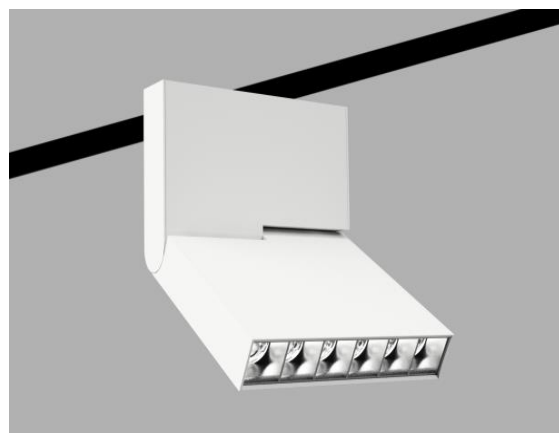
CRI: 93,1

Color temperature:

2746 K

Output: 683 lm  
Peak: 2581 cd

Power: 13,2 W  
24,0V @ 0,550A

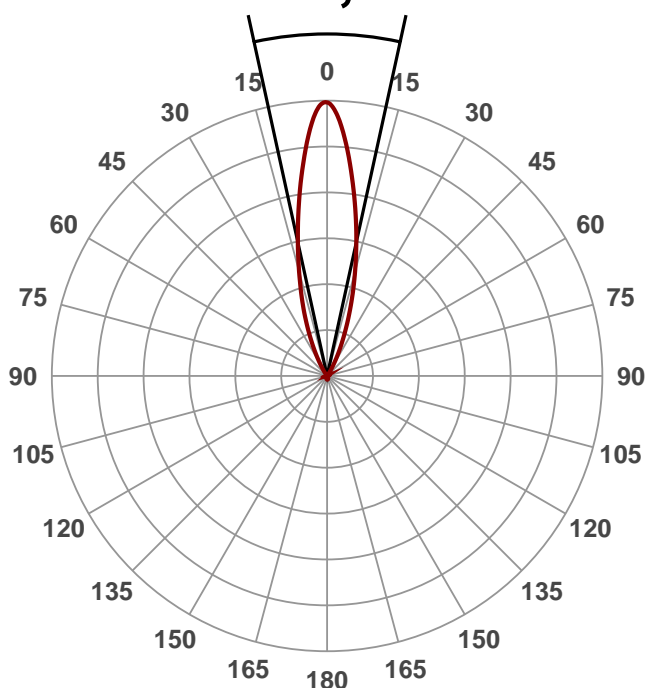


Product name:  
turn plus 25deg 13W 2700K

Date and time:  
25-1-2017 14:26:29

Beam angle

24,7°

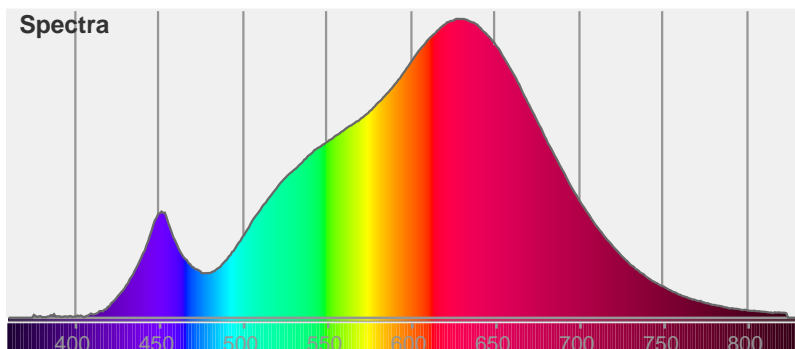


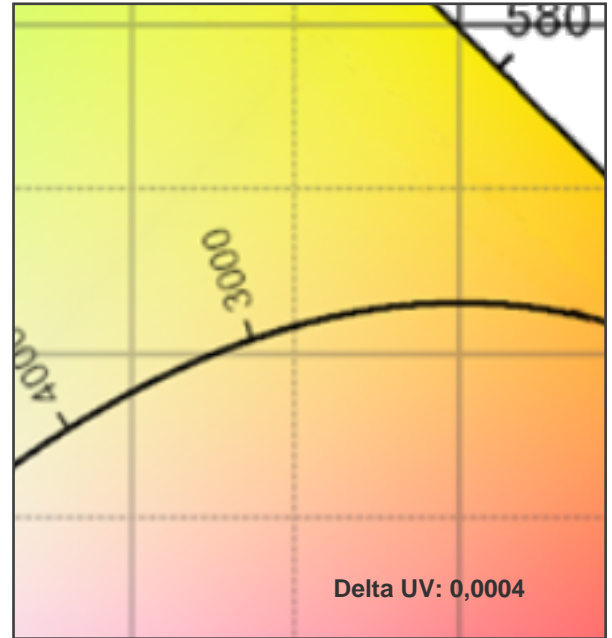
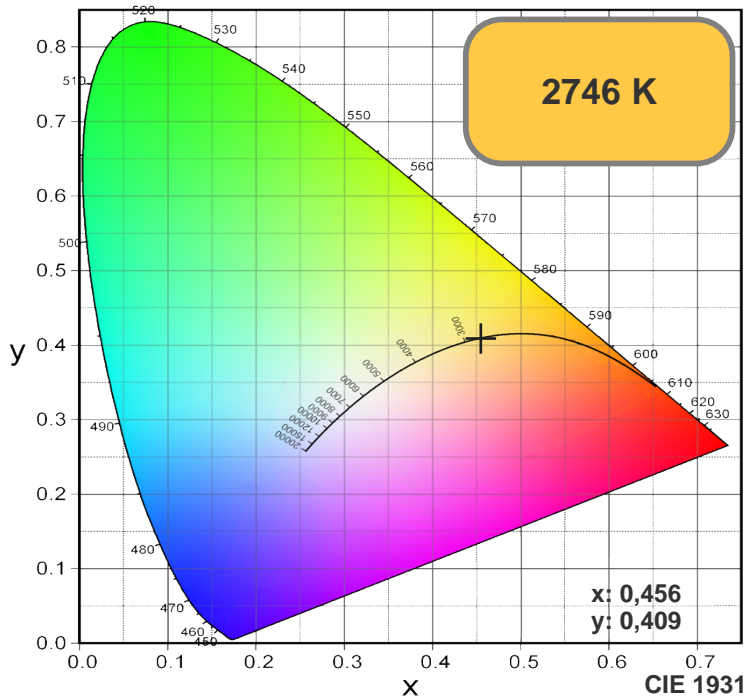
Color



CIE1931  
x: 0,456  
y: 0,409

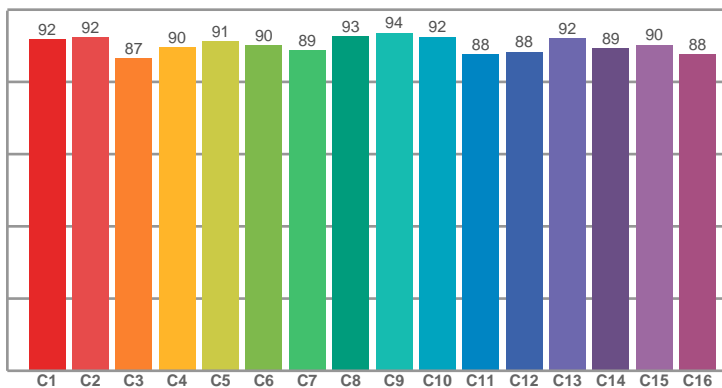
Spectra



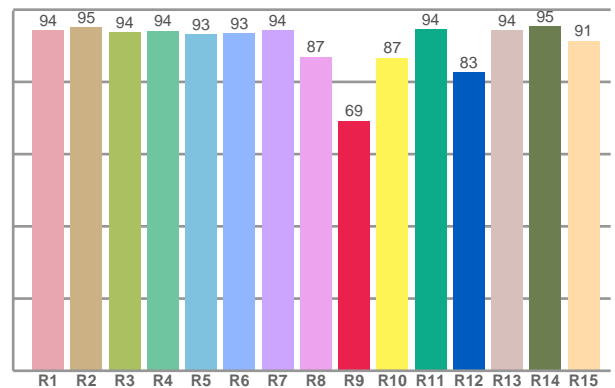


COLOR

TM30: 90,3



CRI: 93,1 (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   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 94,17 | 95,04 | 93,65 | 94,12 | 93,05 | 93,48 | 94,22 | 86,94 | 69,19 | 86,67 | 94,45 | 82,56 | 94,27 | 95,37 | 91,32 |

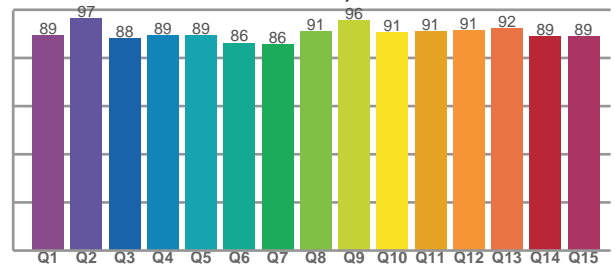
TM30 C values, 16 binned values out of total of 99 C values

| C1    | C2    | C3    | C4    | C5    | C6    | C7    | C8    | C9    | C10   | C11   | C12   | C13   | C14   | C15   | C16   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 91,71 | 92,27 | 86,51 | 89,59 | 91,15 | 90,11 | 88,79 | 92,66 | 93,59 | 92,44 | 87,68 | 88,32 | 91,94 | 89,33 | 90,26 | 87,67 |

CQS Q values

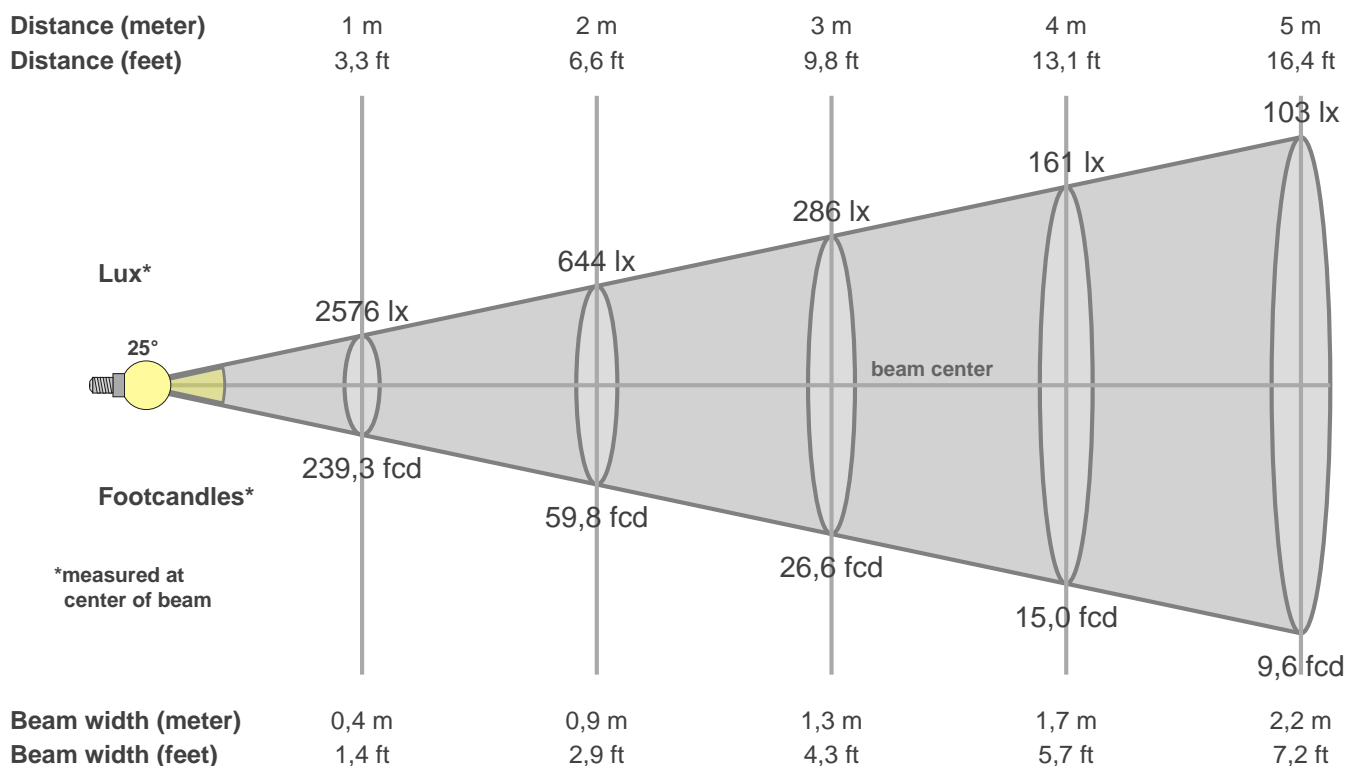
| Q1    | Q2    | Q3    | Q4    | Q5    | Q6    | Q7    | Q8    | Q9    | Q10   | Q11   | Q12   | Q13   | Q14   | Q15   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 89,49 | 96,67 | 88,22 | 89,41 | 89,34 | 86,39 | 85,79 | 91,11 | 95,76 | 90,69 | 91,01 | 91,43 | 92,25 | 89,15 | 89,07 |

CQS: 89,9



## Color parameters

| CCT    | CRI  | CRI R9 | TM30 Rf | TM30 Rg | CQS  | x   | y   | u   | v   | Duv    |
|--------|------|--------|---------|---------|------|-----|-----|-----|-----|--------|
| 2746 K | 93,1 | 69,2   | 90,3    | 102,2   | 89,9 | 0,5 | 0,4 | 0,3 | 0,4 | 0,0004 |



### 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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2576 | 2520 | 2326 | 2070 | 1812 | 1561 | 1327 | 1117 | 929 | 770 | 624 | 490 | 373 | 276 | 195 | 129 | 79  | 46  | 28  | 17  |
| 100% | 98%  | 90%  | 80%  | 70%  | 61%  | 52%  | 43%  | 36% | 30% | 24% | 19% | 14% | 11% | 8%  | 5%  | 3%  | 2%  | 1%  | 1%  |

### 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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2576 | 2520 | 2326 | 2070 | 1812 | 1561 | 1327 | 1117 | 929 | 770 | 624 | 490 | 373 | 276 | 195 | 129 | 79  | 46  | 28  | 17  |
| 100% | 98%  | 90%  | 80%  | 70%  | 61%  | 52%  | 43%  | 36% | 30% | 24% | 19% | 14% | 11% | 8%  | 5%  | 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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2576 | 2478 | 2275 | 2031 | 1784 | 1549 | 1327 | 1117 | 926 | 751 | 594 | 458 | 344 | 250 | 170 | 107 | 63  | 35  | 20  | 11  |
| 100% | 96%  | 88%  | 79%  | 69%  | 60%  | 52%  | 43%  | 36% | 29% | 23% | 18% | 13% | 10% | 7%  | 4%  | 2%  | 1%  | 1%  | 0%  |

### 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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2576 | 2478 | 2275 | 2031 | 1784 | 1549 | 1327 | 1117 | 926 | 751 | 594 | 458 | 344 | 250 | 170 | 107 | 63  | 35  | 20  | 11  |
| 100% | 96%  | 88%  | 79%  | 69%  | 60%  | 52%  | 43%  | 36% | 29% | 23% | 18% | 13% | 10% | 7%  | 4%  | 2%  | 1%  | 1%  | 0%  |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 24,7°          | 52,2°           | 64,7°             | 94,1%                        | 93,6%                       |