

## Light efficiency:

82 Lumen/Watt

Output: 1439 lm

## Light quality:

CRI: 94.0

Peak: 498 cd

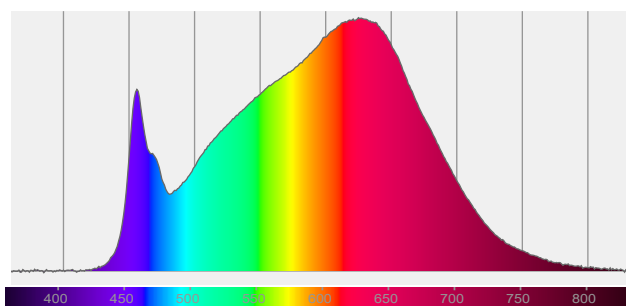
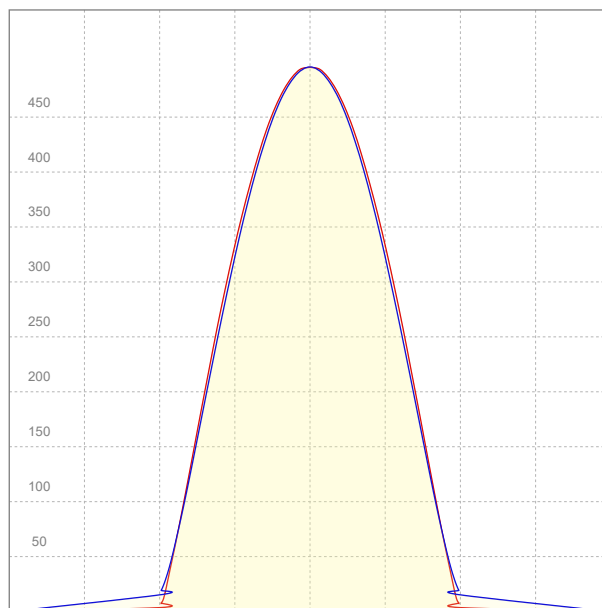
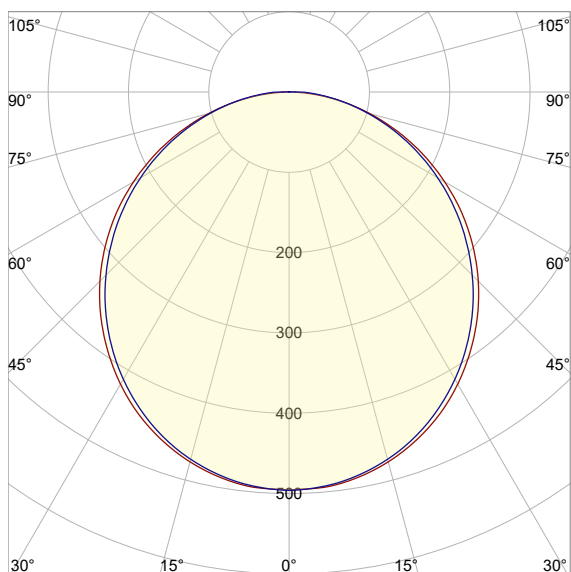
## Color temperature:

3195 K

Power: 17.6 W

PF: 1.0

No photo



## Product name:

EDGERazor Wide 110°

## Item number:

ERA4

## Configuration:

ERA4-4FT-3590-AL-DW110-350LPF

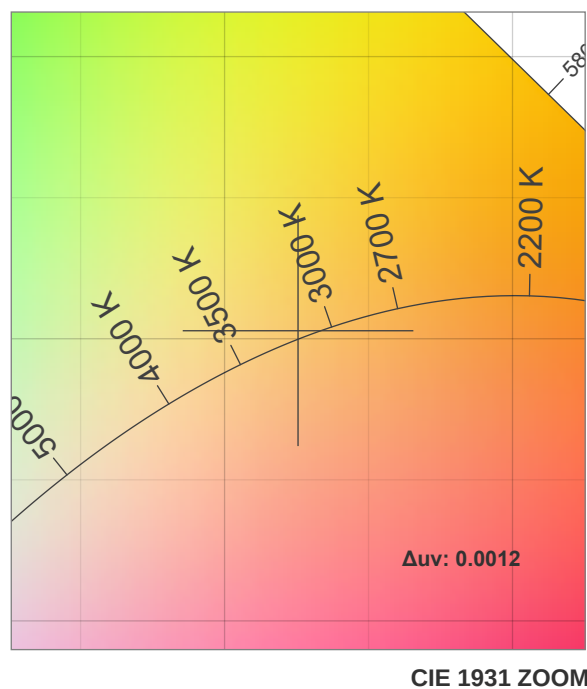
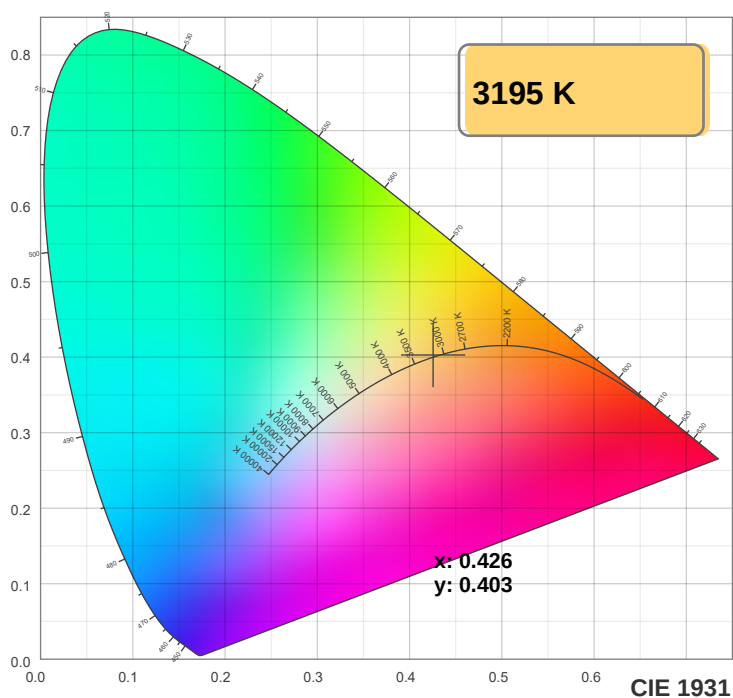
## Date and time:

8/9/2021 4:49:41 PM

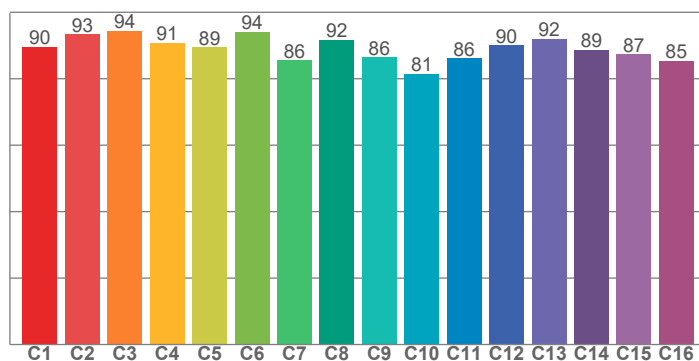
## Description:

Power Supply @ 560 mA

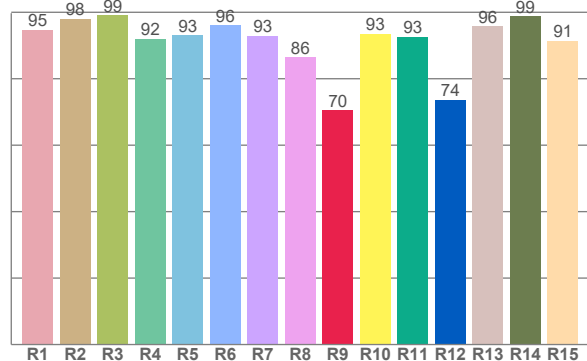
## Color Details



TM-30: 89.2



CRI: 94.0 (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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94.7 | 98.0 | 99.1 | 92.1 | 93.0 | 96.2 | 92.9 | 86.4 | 70.4 | 93.5 | 92.7 | 73.7 | 95.9 | 98.9 | 91.4 |

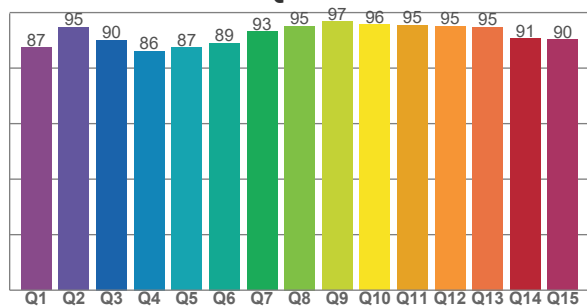
TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 89.7 | 93.3 | 94.3 | 90.8 | 89.4 | 94.1 | 85.6 | 91.6 | 86.4 | 81.4 | 86.1 | 90.1 | 92.1 | 88.7 | 87.3 | 85.3 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 87.3 | 94.7 | 90.1 | 86.2 | 87.4 | 89.0 | 93.1 | 95.1 | 96.8 | 95.7 | 95.4 | 95.2 | 94.8 | 90.6 | 90.2 |

CQS: 91.3



## 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                | $\Delta uv$                     |
| 3195 K            | 94.0                  | 70.4          | 89.2           | 96.2        | 91.3                | 0.426                     | 0.403                     | 0.244            | 0.346            | 0.0012                          |

## TM-30 Details

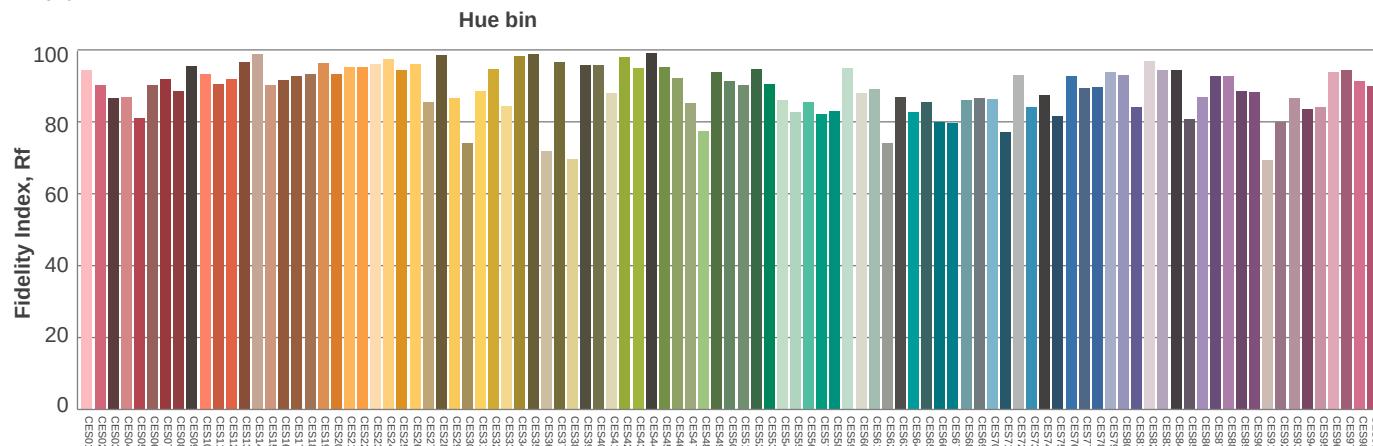
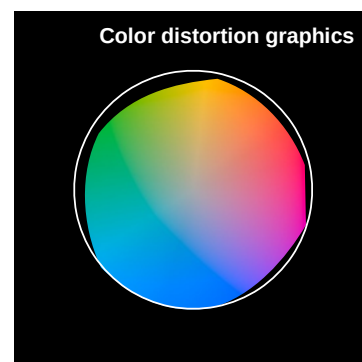
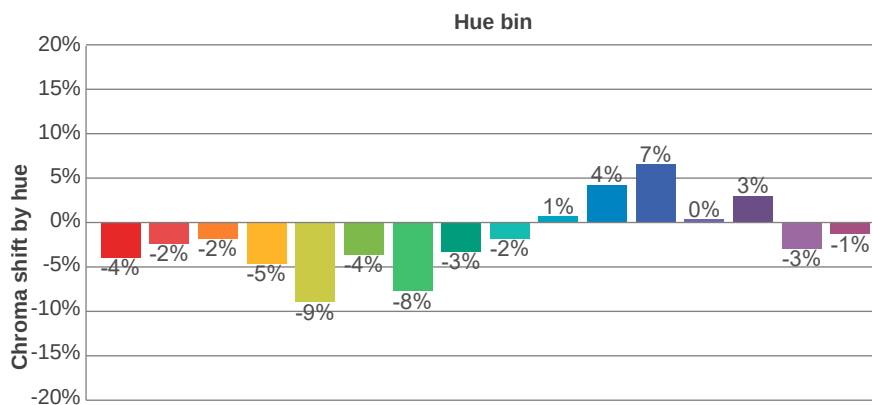
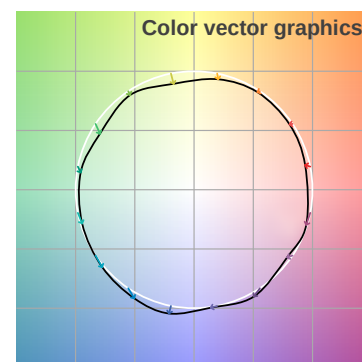
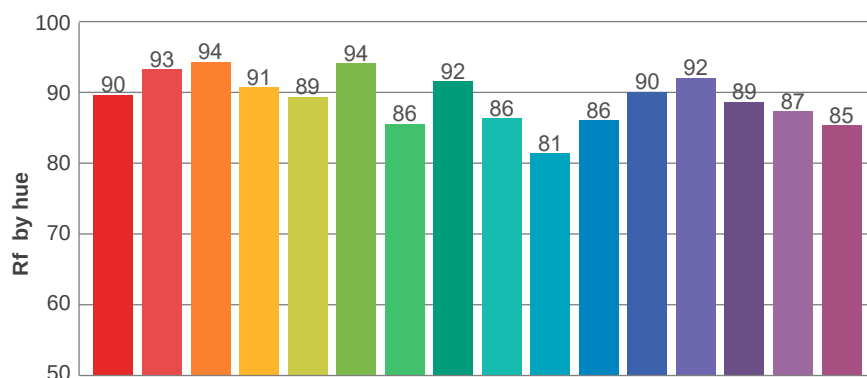
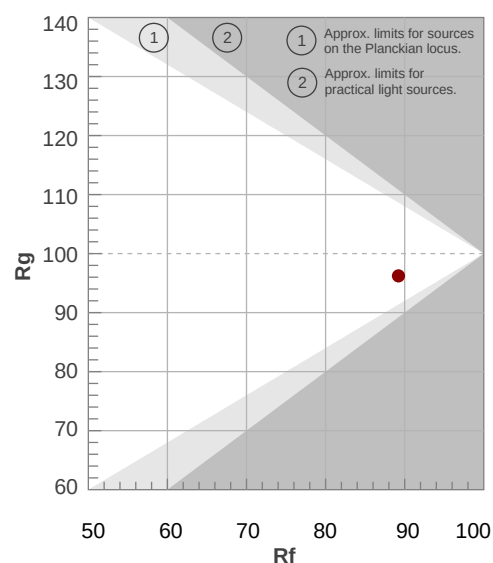
**Rf 89.2**

Fidelity index Rf

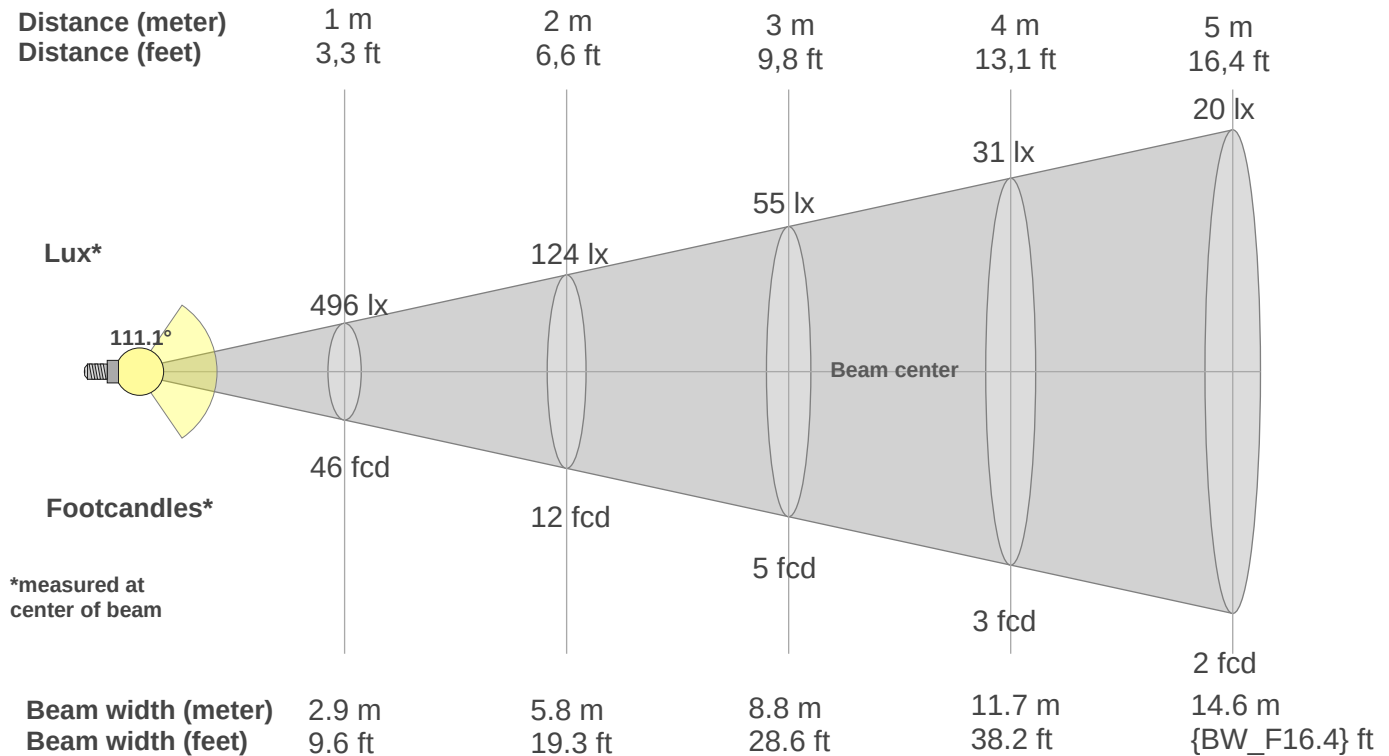
**Rg 96.2**

Gamut index Rg

| Hue Bin | R <sub>f</sub> | Shifts (%) |      |
|---------|----------------|------------|------|
|         |                | Chroma     | Hue  |
| 1       | 90             | -4%        | 2%   |
| 2       | 93             | -2%        | 1%   |
| 3       | 94             | -2%        | 1%   |
| 4       | 91             | -5%        | -2%  |
| 5       | 89             | -9%        | -1%  |
| 6       | 94             | -4%        | 0%   |
| 7       | 86             | -8%        | 5%   |
| 8       | 92             | -3%        | 4%   |
| 9       | 86             | -2%        | 9%   |
| 10      | 81             | 1%         | 11%  |
| 11      | 86             | 4%         | 9%   |
| 12      | 90             | 7%         | 0%   |
| 13      | 92             | 0%         | -6%  |
| 14      | 89             | 3%         | -8%  |
| 15      | 87             | -3%        | -4%  |
| 16      | 85             | -1%        | -11% |



## 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 |
| 496lx   | 124lx   | 55lx   | 31lx   | 20lx   | 14lx   | 10lx   | 8lx    | 6lx    | 5lx    | 4lx    | 3lx    | 3lx    | 3lx    | 2lx    | 2lx    | 2lx    | 2lx    | 1lx    | 1lx    |
| 46.1fcd | 11.5fcd | 5.1fcd | 2.9fcd | 1.8fcd | 1.3fcd | 0.9fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.1fcd | 0.1fcd | 0.1fcd |

## Intensities in 0° c-plane

| 0°   | 5°   | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 496  | 494  | 487 | 476 | 461 | 443 | 420 | 393 | 365 | 333 | 299 | 262 | 223 | 184 | 144 | 104 | 65  | 29  | 4   | 3   |
| 100% | 100% | 98% | 96% | 93% | 89% | 85% | 79% | 73% | 67% | 60% | 53% | 45% | 37% | 29% | 21% | 13% | 6%  | 1%  | 1%  |

## Intensities in 90° c-plane

| 0°   | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 496  | 492 | 485 | 473 | 457 | 436 | 412 | 385 | 355 | 322 | 287 | 251 | 214 | 176 | 138 | 101 | 66  | 36  | 15  | 14  |
| 100% | 99% | 98% | 95% | 92% | 88% | 83% | 78% | 72% | 65% | 58% | 51% | 43% | 35% | 28% | 20% | 13% | 7%  | 3%  | 3%  |

## Intensities in 180° c-plane

| 0°   | 5°   | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 496  | 494  | 487 | 476 | 461 | 443 | 420 | 393 | 365 | 333 | 299 | 262 | 223 | 184 | 144 | 104 | 65  | 29  | 4   | 3   |
| 100% | 100% | 98% | 96% | 93% | 89% | 85% | 79% | 73% | 67% | 60% | 53% | 45% | 37% | 29% | 21% | 13% | 6%  | 1%  | 1%  |

## Intensities in 270° c-plane

| 0°   | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 496  | 492 | 485 | 473 | 457 | 436 | 412 | 385 | 355 | 322 | 287 | 251 | 214 | 176 | 138 | 101 | 66  | 36  | 15  | 14  |
| 100% | 99% | 98% | 95% | 92% | 88% | 83% | 78% | 72% | 65% | 58% | 51% | 43% | 35% | 28% | 20% | 13% | 7%  | 3%  | 3%  |

UGR

## Glare evaluation according to UGR

|                                                                                |     |                                                   |      |      |      |      |                                         |      |      |      |      |
|--------------------------------------------------------------------------------|-----|---------------------------------------------------|------|------|------|------|-----------------------------------------|------|------|------|------|
| p Ceiling                                                                      |     | 70                                                | 70   | 50   | 50   | 30   | 70                                      | 70   | 50   | 50   | 30   |
| p Walls                                                                        |     | 50                                                | 30   | 50   | 30   | 30   | 50                                      | 30   | 50   | 30   | 30   |
| p Floor                                                                        |     | 20                                                | 20   | 20   | 20   | 20   | 20                                      | 20   | 20   | 20   | 20   |
| Room size<br>X      Y                                                          |     | Viewing direction at right angles to<br>lamp axis |      |      |      |      | Viewing direction parallel to lamp axis |      |      |      |      |
| 2H                                                                             | 2H  | 20.5                                              | 21.7 | 20.7 | 22.0 | 22.3 | 20.4                                    | 21.6 | 20.6 | 21.9 | 22.1 |
|                                                                                | 3H  | 22.0                                              | 23.3 | 22.5 | 23.6 | 23.8 | 21.9                                    | 23.2 | 22.3 | 23.5 | 23.7 |
|                                                                                | 4H  | 22.8                                              | 24.0 | 23.2 | 24.3 | 24.5 | 22.6                                    | 23.8 | 23.0 | 24.1 | 24.4 |
|                                                                                | 6H  | 23.4                                              | 24.5 | 23.7 | 24.7 | 25.1 | 23.3                                    | 24.3 | 23.6 | 24.6 | 25.0 |
|                                                                                | 8H  | 23.6                                              | 24.6 | 23.9 | 24.9 | 25.3 | 23.5                                    | 24.5 | 23.8 | 24.8 | 25.3 |
|                                                                                | 12H | 23.7                                              | 24.7 | 24.1 | 25.0 | 25.5 | 23.7                                    | 24.7 | 24.0 | 25.0 | 25.5 |
| 4H                                                                             | 2H  | 21.1                                              | 22.3 | 21.5 | 22.6 | 22.8 | 21.0                                    | 22.2 | 21.4 | 22.5 | 22.7 |
|                                                                                | 3H  | 22.9                                              | 24.0 | 23.3 | 24.3 | 24.7 | 22.8                                    | 23.9 | 23.2 | 24.2 | 24.6 |
|                                                                                | 4H  | 23.7                                              | 24.6 | 24.1 | 25.0 | 25.6 | 23.6                                    | 24.5 | 24.0 | 24.9 | 25.5 |
|                                                                                | 6H  | 24.4                                              | 25.3 | 24.9 | 25.6 | 26.0 | 24.3                                    | 25.2 | 24.8 | 25.6 | 25.9 |
|                                                                                | 8H  | 24.6                                              | 25.5 | 25.1 | 25.8 | 26.2 | 24.6                                    | 25.4 | 25.1 | 25.8 | 26.2 |
|                                                                                | 12H | 24.8                                              | 25.5 | 25.3 | 25.9 | 26.4 | 24.9                                    | 25.6 | 25.4 | 26.0 | 26.5 |
| 8H                                                                             | 4H  | 24.0                                              | 24.8 | 24.5 | 25.2 | 25.6 | 23.9                                    | 24.7 | 24.4 | 25.1 | 25.5 |
|                                                                                | 6H  | 24.9                                              | 25.5 | 25.4 | 26.0 | 26.5 | 24.8                                    | 25.5 | 25.3 | 25.9 | 26.5 |
|                                                                                | 8H  | 25.3                                              | 25.8 | 25.8 | 26.3 | 27.0 | 25.2                                    | 25.8 | 25.8 | 26.3 | 27.0 |
|                                                                                | 12H | 25.6                                              | 26.0 | 26.1 | 26.5 | 27.1 | 25.6                                    | 26.1 | 26.2 | 26.6 | 27.2 |
| 12H                                                                            | 4H  | 24.0                                              | 24.7 | 24.5 | 25.1 | 25.6 | 23.9                                    | 24.6 | 24.4 | 25.1 | 25.5 |
|                                                                                | 6H  | 25.0                                              | 25.5 | 25.5 | 26.0 | 26.7 | 24.9                                    | 25.5 | 25.4 | 26.0 | 26.6 |
|                                                                                | 8H  | 25.4                                              | 25.9 | 26.0 | 26.4 | 27.0 | 25.4                                    | 25.8 | 26.0 | 26.3 | 27.0 |
| Variation of the observer position for the luminaire distance S                |     |                                                   |      |      |      |      |                                         |      |      |      |      |
| S = 1.0H                                                                       |     | 0.1 / -0.1                                        |      |      |      |      | 0.1 / -0.1                              |      |      |      |      |
| S = 1.5H                                                                       |     | 0.1 / -0.2                                        |      |      |      |      | 0.1 / -0.2                              |      |      |      |      |
| S = 2.0H                                                                       |     | 0.3 / -0.4                                        |      |      |      |      | 0.3 / -0.4                              |      |      |      |      |
| CIE 117-1995. Corrected glare indices referring to 1439 lm total luminous flux |     |                                                   |      |      |      |      |                                         |      |      |      |      |