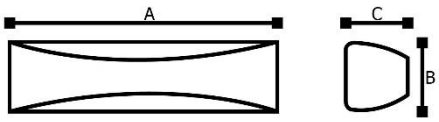
**Luminaria para exterior**

**Dimensiones (mm)**

**A:** 230; **B:** 72
**C:** 55.




**Código**

## GL16103

**Descripción**

Luminaria tipo aplique directa-indirecta, diseñada con módulos de LED integrado. Para sobreponer en pared o muro, con difusor en policarbonato opal y con protección UV.

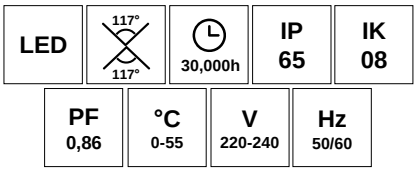
**Materiales y acabado**

Cuerpo en aluminio inyectado con acabado en pintura poliéster electroestática texturizada de alta calidad.

**Color**

Negro.

**Características técnicas**




**Fuente de luz**

50 diodos de LED.

| Potencia de Salida | CRI | K | Lm / W | Lm de Salida |
|---|---|---|---|---|
| 1,6W | >80 | 3000 | 20 | 32,6 |

**Características de fuente de luz**

- Color temperatura disponible 3000K (cálido).
- Marca LED: Epistar. Marca Driver: ESPL.

**Nota:** Debido a continua investigación, nos reservamos el derecho de cambiar especificaciones sin previa notificación.

Light efficiency:

20 Lumen/Watt

Light quality:

CRI: 86,2

Color temperature:

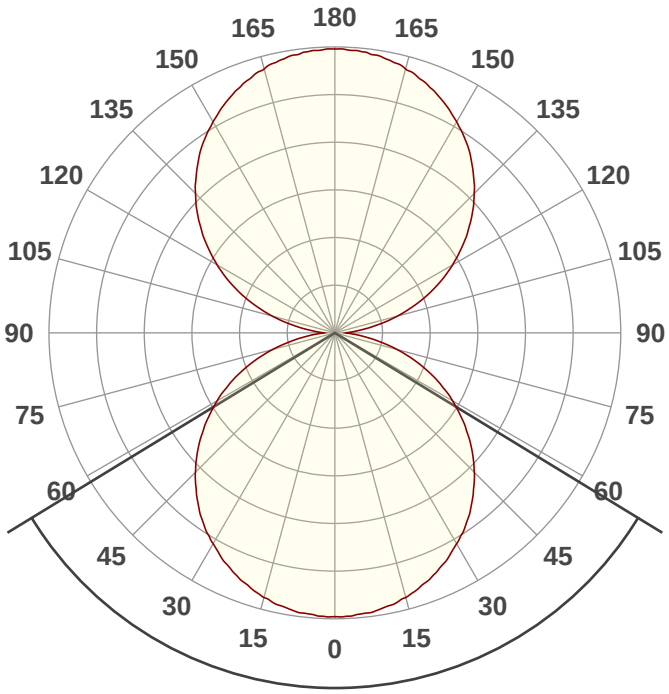
2922 K

**Output:** 32,6 lm

**Peak:** 5,36 cd

**Power:** 1,6 W

**PF:** 0,86




Product name:

**E0124-GL16103**

Beam angle

**117,2°**

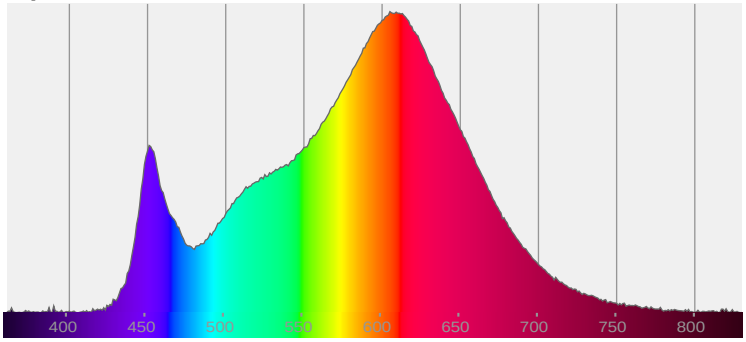
CIE 1931
x: 0,437
y: 0,395

THD Values:

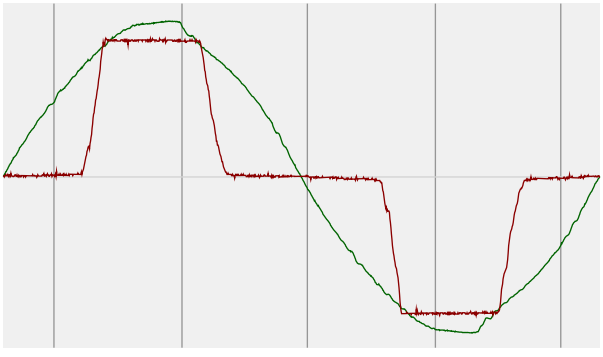
**Voltage: 2,47%**

**Current: 58,3%**

Spectra

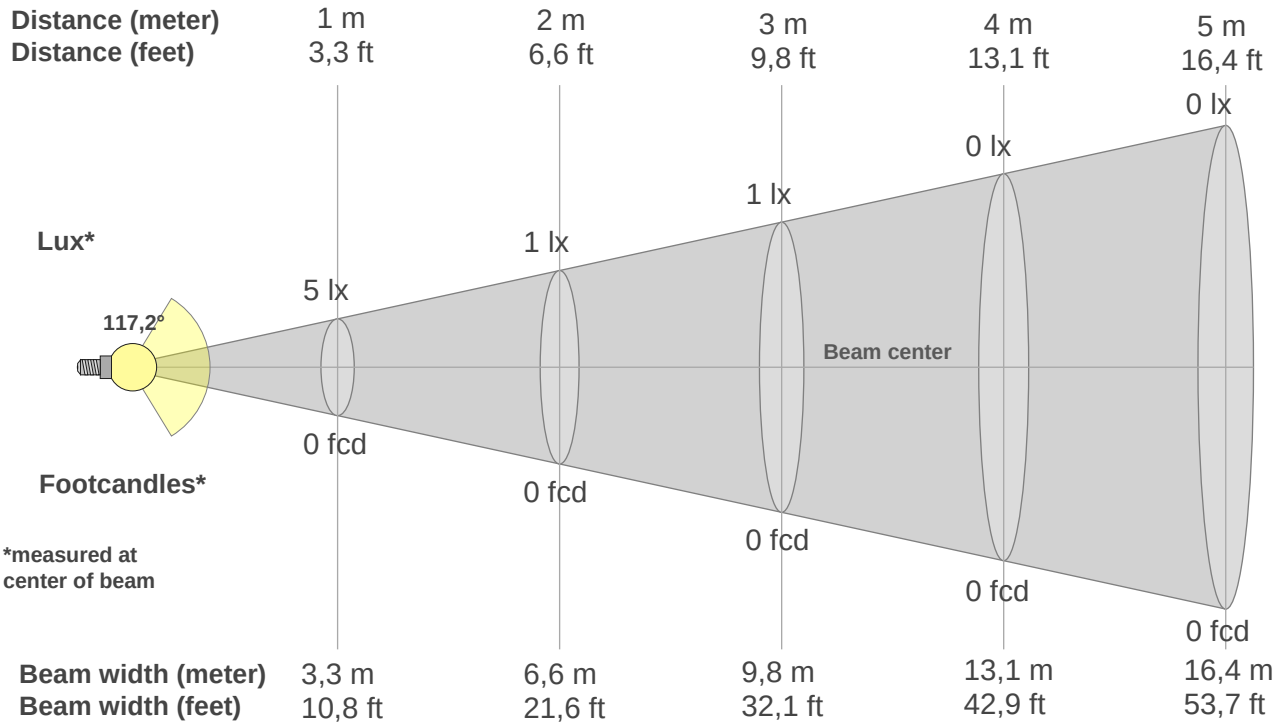



Power



Voltage: 114 V
Current: 0,017 A
Frequency: 60 Hz

# 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 |
| 5lx | 1lx | 1lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx |
| 0,5fcd | 0,1fcd | 0,1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |

**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° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,36 | 5,29 | 5,08 | 4,74 | 4,29 | 3,72 | 3,05 | 2,30 | 1,50 | 0,69 | 0,21 | 0,69 | 1,49 | 2,31 | 3,06 | 3,72 | 4,30 | 4,74 | 5,07 | 5,29 |
| 100% | 99% | 95% | 88% | 80% | 69% | 57% | 43% | 28% | 13% | 4% | 13% | 28% | 43% | 57% | 69% | 80% | 88% | 95% | 99% |

**Intensities in 90° c-plane**

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,36 | 5,29 | 5,08 | 4,74 | 4,29 | 3,72 | 3,05 | 2,30 | 1,50 | 0,69 | 0,21 | 0,69 | 1,49 | 2,31 | 3,06 | 3,72 | 4,30 | 4,74 | 5,07 | 5,29 |
| 100% | 99% | 95% | 88% | 80% | 69% | 57% | 43% | 28% | 13% | 4% | 13% | 28% | 43% | 57% | 69% | 80% | 88% | 95% | 99% |

**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° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,36 | 5,29 | 5,08 | 4,74 | 4,29 | 3,72 | 3,05 | 2,30 | 1,50 | 0,69 | 0,21 | 0,69 | 1,49 | 2,31 | 3,06 | 3,72 | 4,30 | 4,74 | 5,07 | 5,29 |
| 100% | 99% | 95% | 88% | 80% | 69% | 57% | 43% | 28% | 13% | 4% | 13% | 28% | 43% | 57% | 69% | 80% | 88% | 95% | 99% |

**Intensities in 270° c-plane**

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,36 | 5,29 | 5,08 | 4,74 | 4,29 | 3,72 | 3,05 | 2,30 | 1,50 | 0,69 | 0,21 | 0,69 | 1,49 | 2,31 | 3,06 | 3,72 | 4,30 | 4,74 | 5,07 | 5,29 |
| 100% | 99% | 95% | 88% | 80% | 69% | 57% | 43% | 28% | 13% | 4% | 13% | 28% | 43% | 57% | 69% | 80% | 88% | 95% | 99% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|---|---|---|---|---|
| 117,2° | 360° | 360° | 38,1% | 25,6% |

# TM30 details

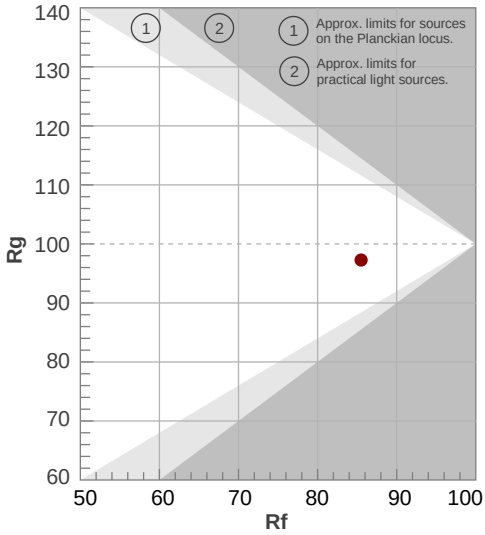
# Rf 85,5

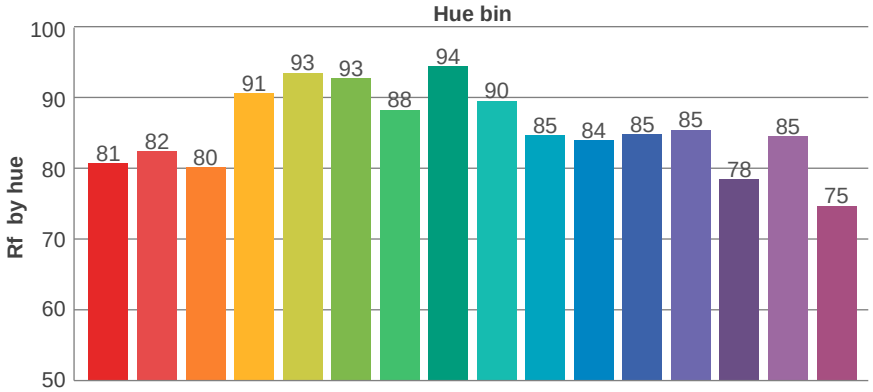
Fidelity index Rf

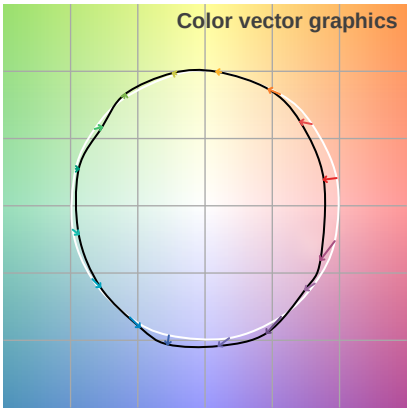
# Rg 97,3

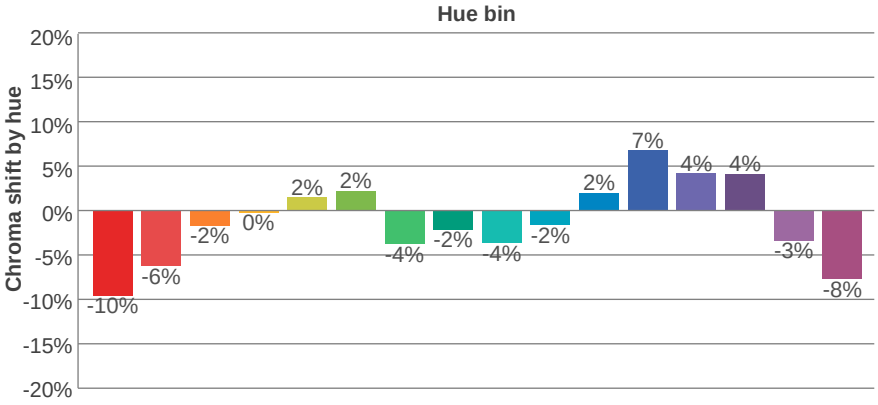
Gammut index Rg

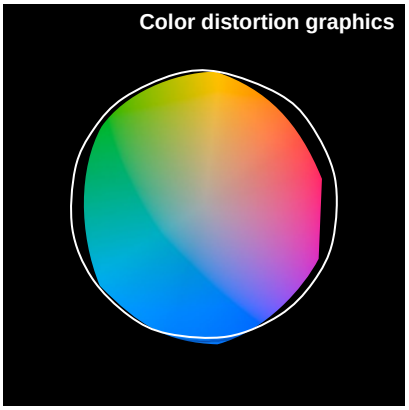
| | | Graphic shifts (%) | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 81 | -10% | 1% |
| 2 | 82 | -6% | 6% |
| 3 | 80 | -2% | 9% |
| 4 | 91 | 0% | 4% |
| 5 | 93 | 2% | 2% |
| 6 | 93 | 2% | -2% |
| 7 | 88 | -4% | -4% |
| 8 | 94 | -2% | 0% |
| 9 | 90 | -4% | 4% |
| 10 | 85 | -2% | 8% |
| 11 | 84 | 2% | 10% |
| 12 | 85 | 7% | 0% |
| 13 | 85 | 4% | -9% |
| 14 | 78 | 4% | -16% |
| 15 | 85 | -3% | -8% |
| 16 | 75 | -8% | -16% |

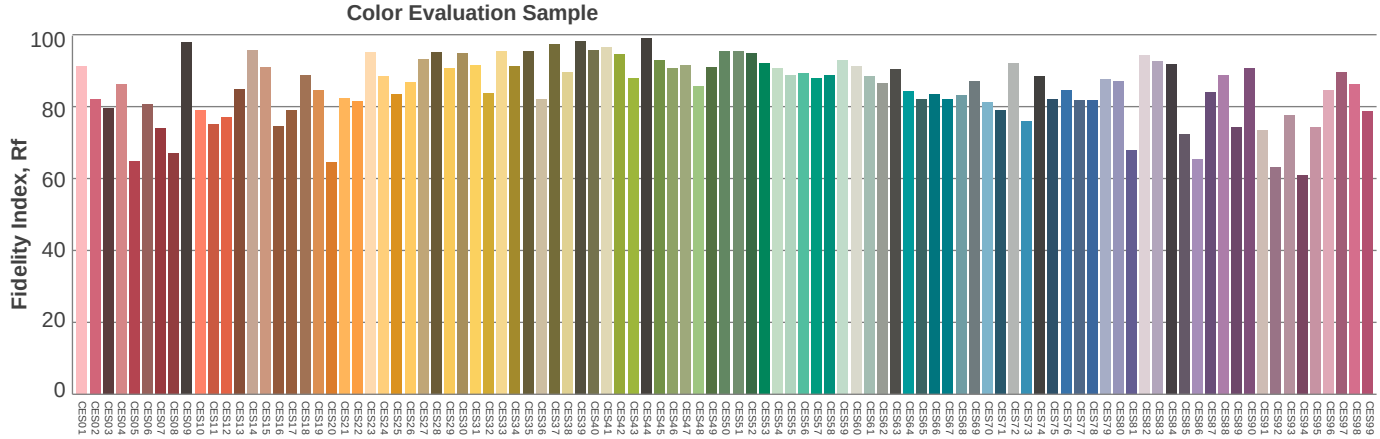


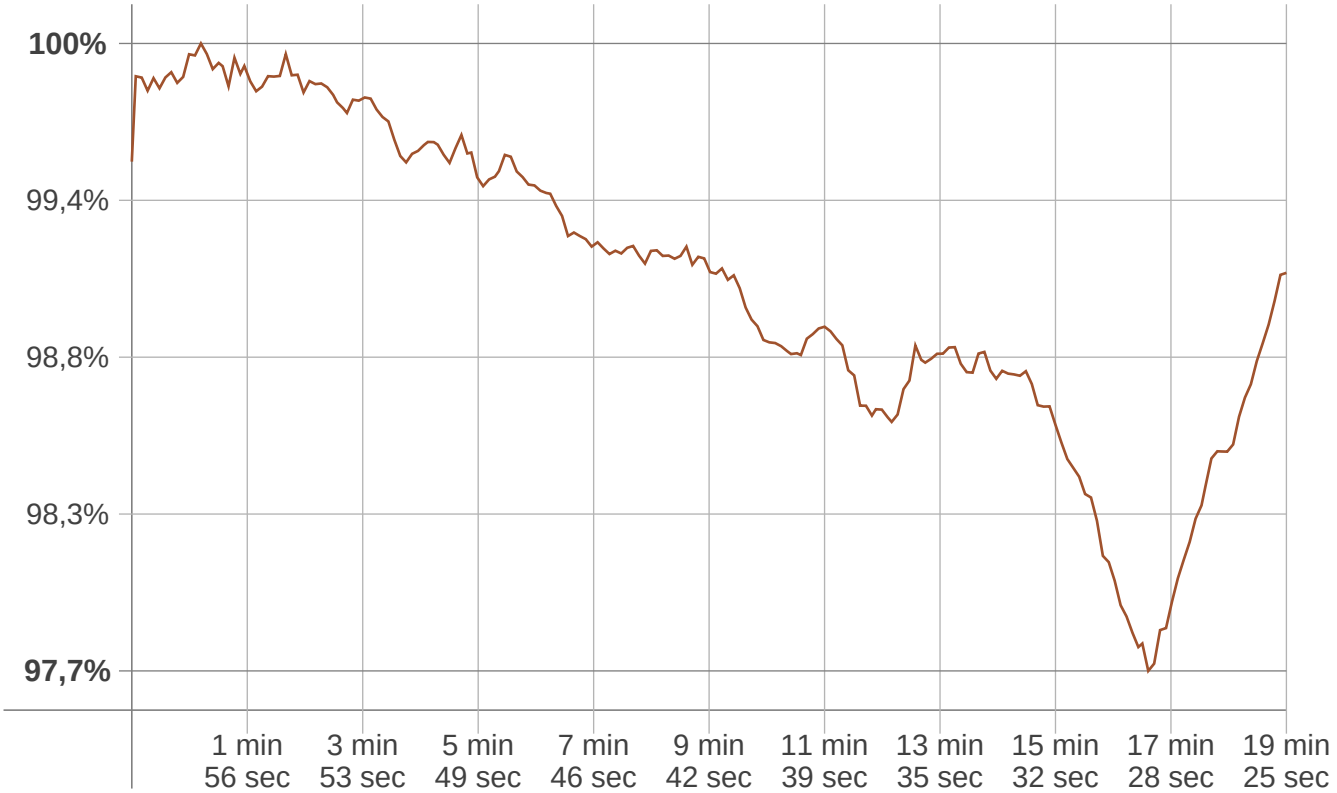
# UGR

## 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 X | Y | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 8,5 | 9,3 | 9,4 | 10,2 | 11,4 | 8,5 | 9,3 | 9,4 | 10,2 | 11,4 |
| | 3H | 10,1 | 10,9 | 11,0 | 11,8 | 12,9 | 10,1 | 10,9 | 11,0 | 11,8 | 12,9 |
| | 4H | 10,8 | 11,5 | 11,7 | 12,4 | 13,6 | 10,8 | 11,5 | 11,7 | 12,4 | 13,6 |
| | 6H | 11,3 | 11,9 | 12,2 | 12,8 | 14,1 | 11,3 | 11,9 | 12,2 | 12,8 | 14,1 |
| | 8H | 11,5 | 12,1 | 12,4 | 13,0 | 14,2 | 11,5 | 12,1 | 12,4 | 13,0 | 14,2 |
| | 12H | 11,6 | 12,2 | 12,6 | 13,1 | 14,3 | 11,6 | 12,2 | 12,6 | 13,1 | 14,3 |
| 4H | 2H | 9,1 | 9,8 | 10,0 | 10,7 | 11,9 | 9,1 | 9,8 | 10,0 | 10,7 | 11,9 |
| | 3H | 10,9 | 11,4 | 11,8 | 12,4 | 13,6 | 10,9 | 11,4 | 11,8 | 12,4 | 13,6 |
| | 4H | 11,7 | 12,2 | 12,6 | 13,1 | 14,4 | 11,7 | 12,2 | 12,6 | 13,1 | 14,4 |
| | 6H | 12,3 | 12,7 | 13,3 | 13,7 | 15,0 | 12,3 | 12,7 | 13,3 | 13,7 | 15,0 |
| | 8H | 12,5 | 12,9 | 13,5 | 13,9 | 15,2 | 12,5 | 12,9 | 13,5 | 13,9 | 15,2 |
| | 12H | 12,7 | 13,0 | 13,7 | 14,0 | 15,3 | 12,7 | 13,0 | 13,7 | 14,0 | 15,3 |
| 8H | 4H | 11,9 | 12,3 | 12,9 | 13,3 | 14,6 | 11,9 | 12,3 | 12,9 | 13,3 | 14,6 |
| | 6H | 12,6 | 13,0 | 13,7 | 14,0 | 15,3 | 12,6 | 13,0 | 13,7 | 14,0 | 15,3 |
| | 8H | 13,0 | 13,2 | 14,0 | 14,3 | 15,6 | 13,0 | 13,2 | 14,0 | 14,3 | 15,6 |
| | 12H | 13,3 | 13,5 | 14,3 | 14,5 | 15,9 | 13,3 | 13,5 | 14,3 | 14,5 | 15,9 |
| 12H | 4H | 11,9 | 12,2 | 12,9 | 13,2 | 14,5 | 11,9 | 12,2 | 12,9 | 13,2 | 14,5 |
| | 6H | 12,7 | 13,0 | 13,7 | 14,0 | 15,3 | 12,7 | 13,0 | 13,7 | 14,0 | 15,3 |
| | 8H | 13,1 | 13,3 | 14,1 | 14,3 | 15,7 | 13,1 | 13,3 | 14,1 | 14,3 | 15,7 |
| Variation of the observer position for the luminaire distance S | | | | | | | | | | | |
| S = 1,0H | | +0,1 / -0,1 | | | | | +0,1 / -0,1 | | | | |
| S = 1,5H | | +0,2 / -0,3 | | | | | +0,2 / -0,3 | | | | |
| S = 2,0H | | +0,3 / -0,6 | | | | | +0,3 / -0,6 | | | | |
| Standard table | | BK07 | | | | | BK07 | | | | |
| Correction summand | | -2,3 | | | | | -2,3 | | | | |
| Corrected glare indices referring to 32,6 lm total luminous flux | | | | | | | | | | | |

# Stabilization

### Warmup curve




### Warmup result

| | |
|---|---|
| **Warmup time:** | **19 min 25 sec** |
| **Warmup variation** | **-2,3%** |

### Warmup conditions

| | |
|---|---|
| **Stable period:** | **15 min** |
| **Stable change max:** | **2,0%** |
| **Minimum time:** | **15 min** |

### Color temperature change

| CCT start | CCT change | CCT end |
|---|---|---|
| **2933 K** | **-11 K** | **2922 K** |

### Output change

| Output start | Output change | Output end |
|---|---|---|
| **32,8 lm** | **-0,2 lm** | **32,6 lm** |