



Dimensiones (mm)

Altura: 50
Diámetro: Ø114.

Código

KT6315-12W-3K

Descripción

Luminaria tipo bala, basculante, diseñada con módulo de LED. Para empotrar al techo por medio de sujetadores ubicados en los laterales. Compuesta por un lente óptico semi opal, el cual genera mejor reparto de luz.



Materiales y acabado

Sujetadores y resortes en hierro con acabado galvanizado, recubiertos en plástico. Cuerpo y aro en plástico inyectado.

Color

Blanco.

Características técnicas

| | | | |
|-------------------|--|--|------------------------|
| LED |  61° |  25,000h | IP 20 |
| PF 0,61 | °C -10-40 | V 110-130 | Hz 50/60 |

Fuente de luz

Bala con módulo de LED.

| Potencia Nominal | CRI | K | Lm / W | Lm de Salida |
|------------------|-----|------|--------|--------------|
| 12W | >80 | 3000 | 99 | 957 |

Características de fuente de luz

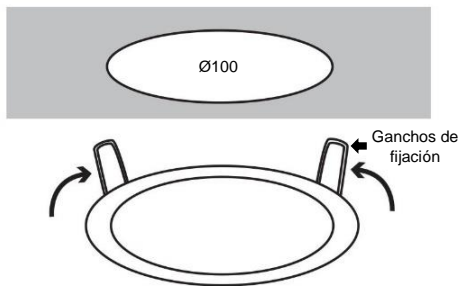
- Color temperatura 3000K (cálido).
- Potencia de Salida: 9,6W.

Instalación

Se debe tener en cuenta la alimentación de la luminaria, para ubicarla.

1. Realizar una perforación en el techo (drywall, madera), en donde desea ubicar la luminaria con un diámetro de Ø120 mm.

2. Sujetar los ganchos de fijación, ubicados en los laterales de la luminaria. Para insertar está en la perforación previamente realizada.



3. Soltar los ganchos una vez que se encuentre la luminaria dentro de la perforación del techo. Asegurarse que la luminaria quede ajustada en el techo.

Mantenimiento de las luminarias

Es esencial llevar a cabo periódicamente inspecciones y mantenimiento a las luminarias instaladas, ya que estas reciben influencia de las condiciones de operación y del medio donde se ubican.

1. Mantenimiento correctivo

El mantenimiento correctivo de las luminarias consiste en localizar, reparar y adecuar las instalaciones para que funcionen el máximo número de horas posible, con el desempeño para el que fueron diseñadas.

Las actividades que componen el mantenimiento correctivo son:

- Localización y reparación de averías
- Adecuación de instalaciones

Para la ejecución del mantenimiento correctivo es importante tener en cuenta los siguientes aspectos:

- Si se genera algún inconveniente en el módulo LED por favor comunicarse con la empresa.
- Revisar el encendido, apagado y el correcto funcionamiento de la luminaria.
- Limpiar el módulo LED y el conjunto óptico de las luminarias con aire comprimido. Para manipular la luminaria se recomienda utilizar guantes quirúrgicos.

2. Mantenimiento preventivo

Dentro de las técnicas de diagnóstico se deben considerar las mediciones eléctricas en diferentes puntos de la red, así como la medición de parámetros eléctricos de operación de las luminarias y sus componentes.

3. Mantenimiento de las instalaciones eléctricas de las luminarias

La persona encargada de la operación y el mantenimiento de las instalaciones eléctricas de las luminarias será responsable de mantenerlas en condiciones seguras, por lo tanto deben garantizar que se cumplan las disposiciones del reglamento que establece los requisitos que deben cumplir los sistemas de alumbrado y verificar que estas conexiones no presenten ningún riesgo para la salud o la vida de las personas, animales o el medio ambiente.

Light efficiency:



Light quality:



Color temperature:



Output: 957 lm

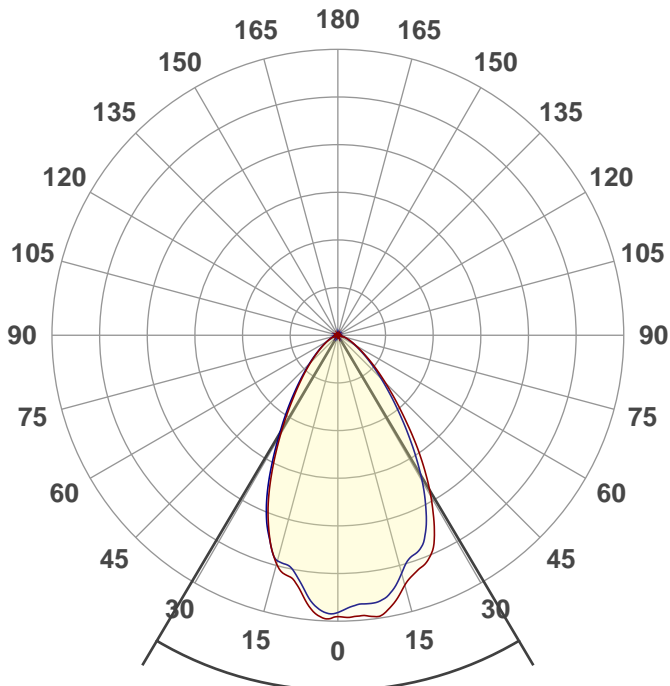
Peak: 832 cd

Power: 9,6 W

PF: 0,61



Product name:
E0439-KT6315-12W-3K



Beam angle **61,3°**



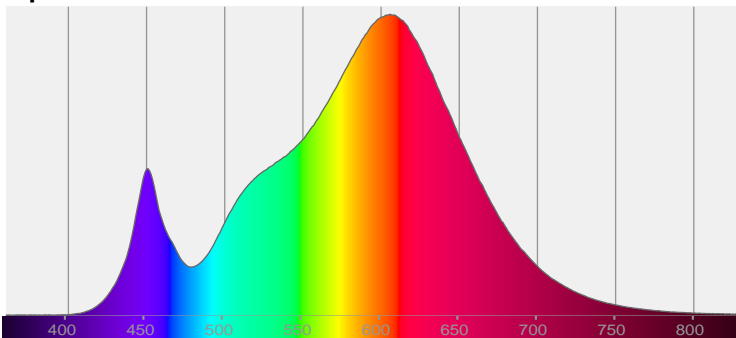
CIE 1931
x: 0,440
y: 0,404

THD Values:

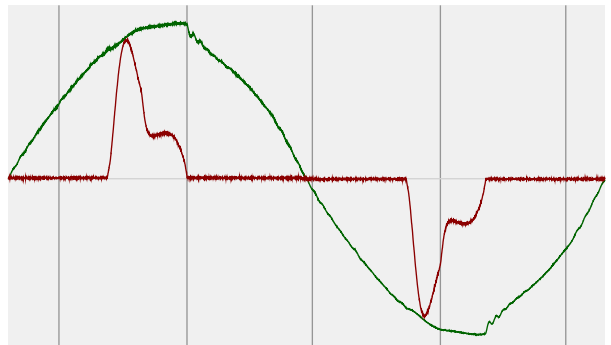
Voltage: 2,95%

Current: 126,31%

Spectra



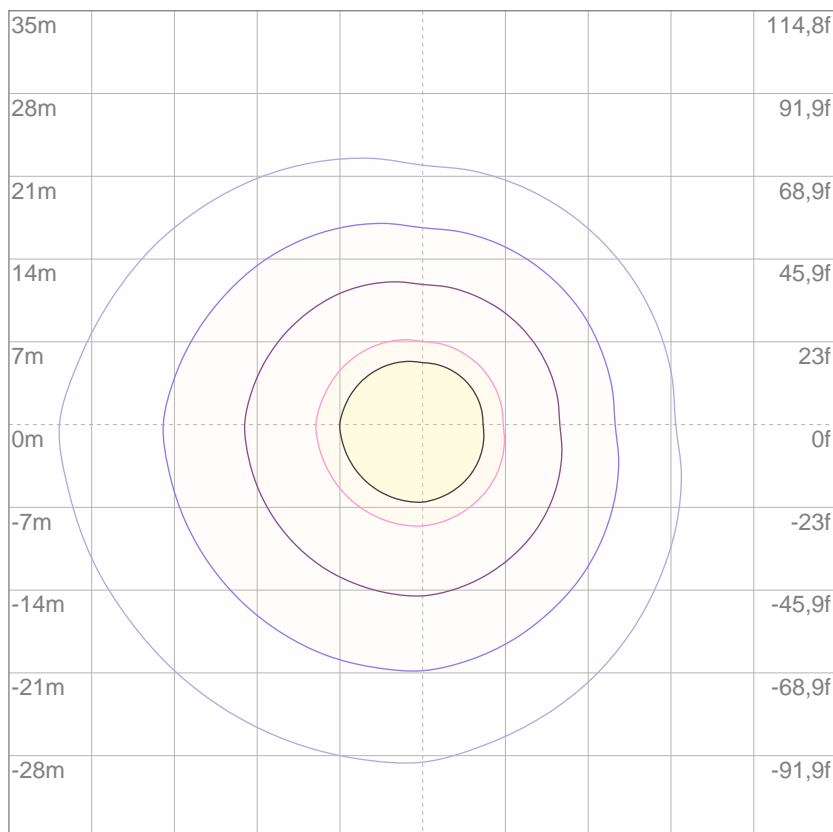
Power



Voltage: 114 V
Current: 0,139 A
Frequency: 60 Hz

ISO Diagrams

ISO lux diagram



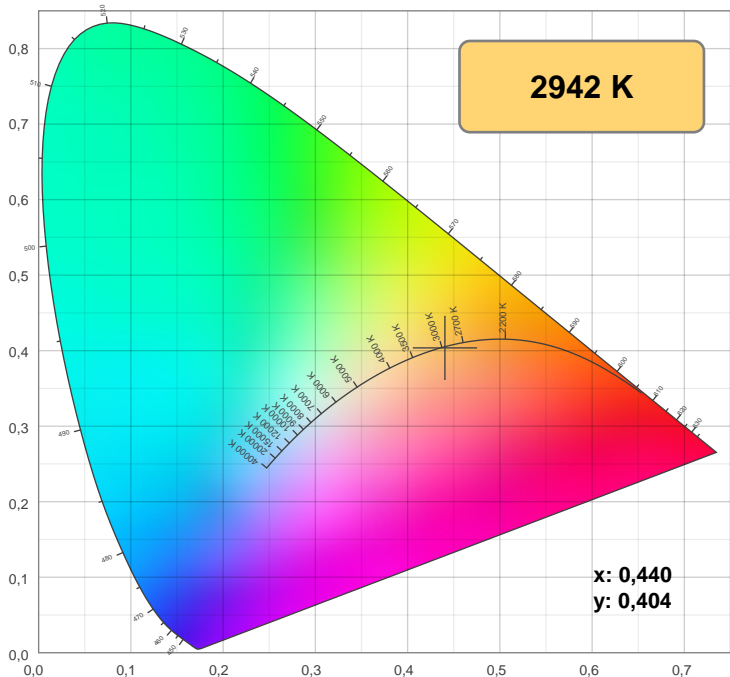
| | |
|-----|----------|
| 3% | 0,245 lx |
| 5% | 0,409 lx |
| 10% | 0,818 lx |
| 30% | 2,45 lx |
| 50% | 4,09 lx |

Conditions:
 Number of c-planes: 4
 Lux at center: 8,18 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

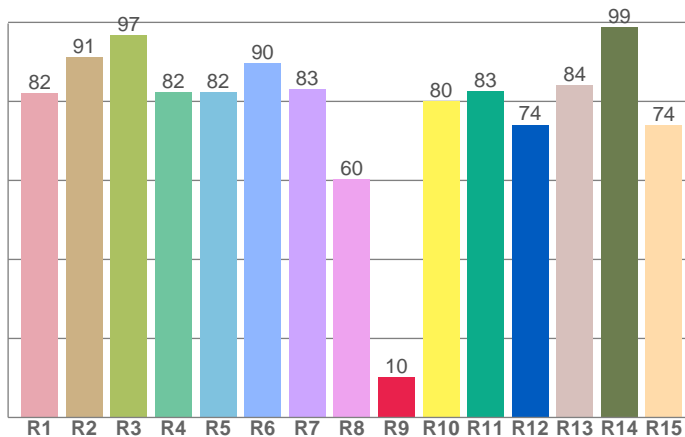
Mounting height: 10 meters (33 f)

Color details



CIE 1931

CRI: 83,5 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 82,1 | 91,1 | 96,8 | 82,4 | 82,3 | 89,7 | 83,2 | 60,2 | 10,1 | 80,0 | 82,6 | 74,1 | 84,3 | 98,9 | 74,0 |

Color parameters

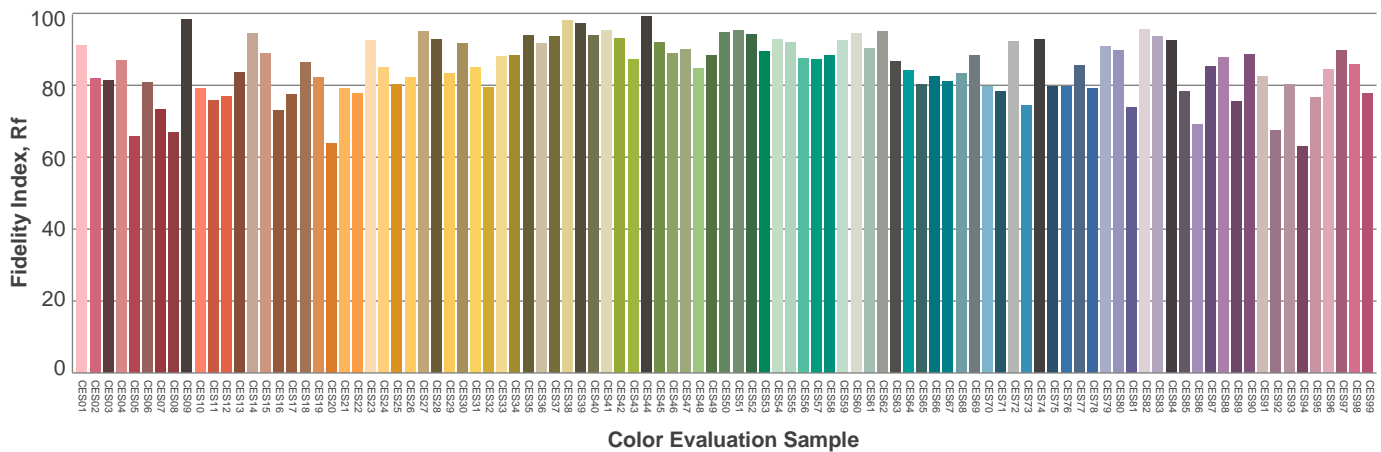
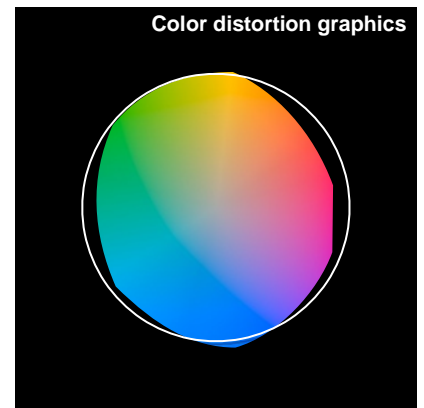
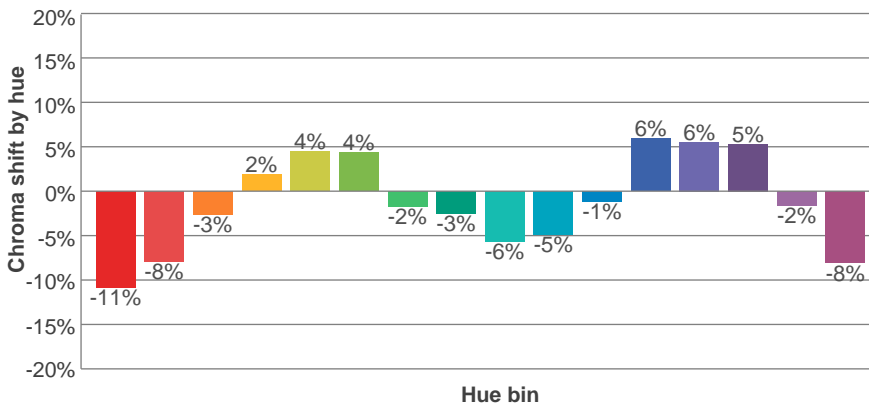
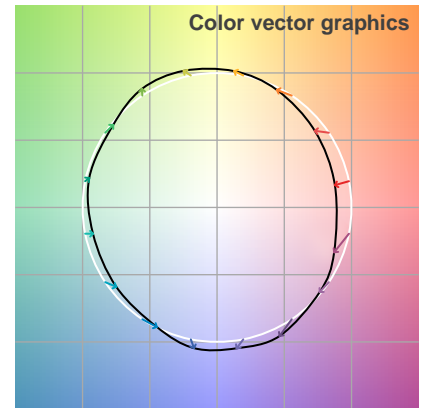
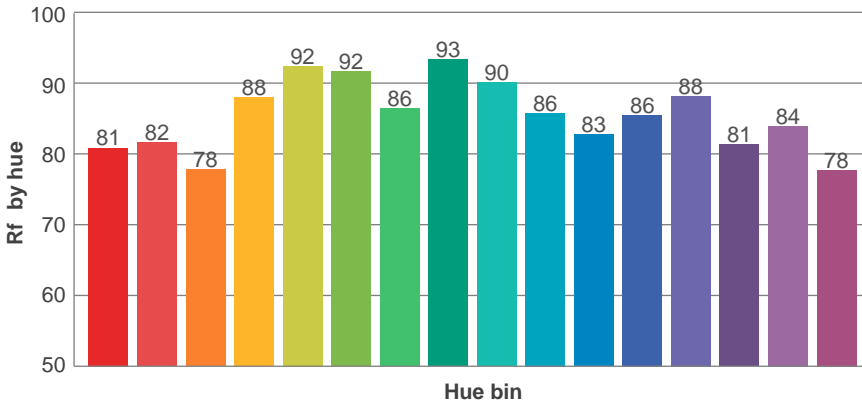
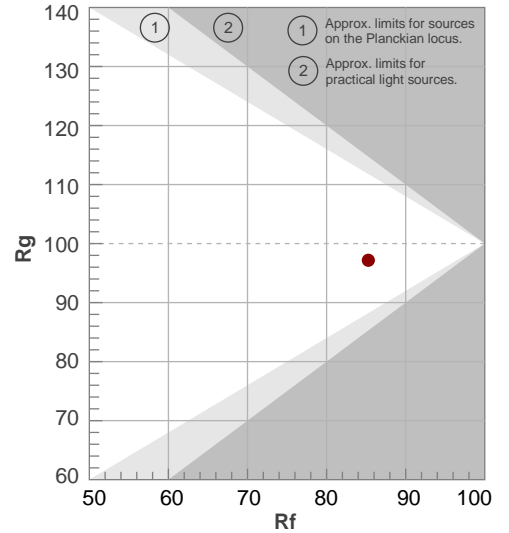
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Color coordinate cie 1931 | Color coordinate cie 1931 | Color coordinate | Color coordinate | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|------------------|------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | x | y | u | v | Δuv |
| 2942 K | 83,5 | 10,1 | 85,3 | 97,2 | 82,4 | 0,440 | 0,404 | 0,253 | 0,348 | 0,0006 |

TM-30 details

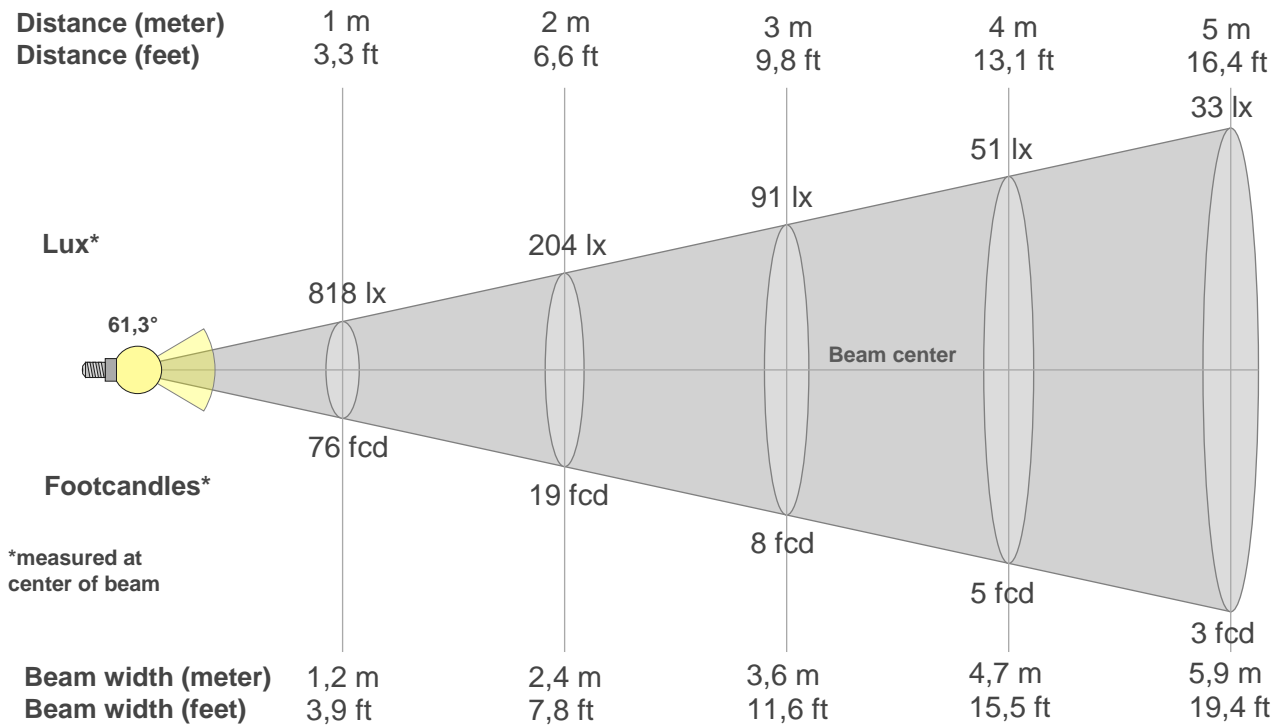
Rf 85,3
Fidelity index Rf

Rg 97,2
Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| 1 | 81 | -11% | -1% |
| 2 | 82 | -8% | 7% |
| 3 | 78 | -3% | 12% |
| 4 | 88 | 2% | 7% |
| 5 | 92 | 4% | 5% |
| 6 | 92 | 4% | -3% |
| 7 | 86 | -2% | -8% |
| 8 | 93 | -3% | -3% |
| 9 | 90 | -6% | 1% |
| 10 | 86 | -5% | 7% |
| 11 | 83 | -1% | 12% |
| 12 | 86 | 6% | 4% |
| 13 | 88 | 6% | -6% |
| 14 | 81 | 5% | -14% |
| 15 | 84 | -2% | -10% |
| 16 | 78 | -8% | -16% |



Beam details



Beam intensities from 1-20m

{BEAM_INT_TABLE_START}

| m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft |
| lx | lx | lx | lx | lx | lx | lx | lx | lx | lx | lx | lx | lx | lx | lx | lx | lx | lx | lx | lx | lx |
| fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd | fcd |

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° |
|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 818 | 824 | 820 | 757 | 721 | 666 | 544 | 410 | 286 | 197 | 135 | 92 | 62 | 43 | 29 | 19 | 10 | 4 | 1 | 0 |
| 100% | 101% | 100% | 93% | 88% | 81% | 67% | 50% | 35% | 24% | 17% | 11% | 8% | 5% | 4% | 2% | 1% | 0% | 0% | 0% |

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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 818 | 790 | 782 | 721 | 676 | 612 | 494 | 365 | 257 | 179 | 124 | 84 | 57 | 39 | 26 | 16 | 8 | 3 | 0 | 0 |
| 100% | 97% | 96% | 88% | 83% | 75% | 60% | 45% | 31% | 22% | 15% | 10% | 7% | 5% | 3% | 2% | 1% | 0% | 0% | 0% |

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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 818 | 812 | 731 | 692 | 593 | 465 | 336 | 233 | 162 | 113 | 77 | 53 | 37 | 25 | 15 | 8 | 3 | 0 | 0 | 0 |
| 100% | 99% | 89% | 85% | 73% | 57% | 41% | 28% | 20% | 14% | 9% | 7% | 4% | 3% | 2% | 1% | 0% | 0% | 0% | 0% |

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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 818 | 792 | 711 | 683 | 602 | 482 | 350 | 247 | 171 | 118 | 81 | 55 | 38 | 26 | 16 | 9 | 4 | 0 | 0 | 0 |
| 100% | 97% | 87% | 84% | 74% | 59% | 43% | 30% | 21% | 14% | 10% | 7% | 5% | 3% | 2% | 1% | 0% | 0% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 61,3° | 105,3° | 140,6° | 94,8% | 82,6% |

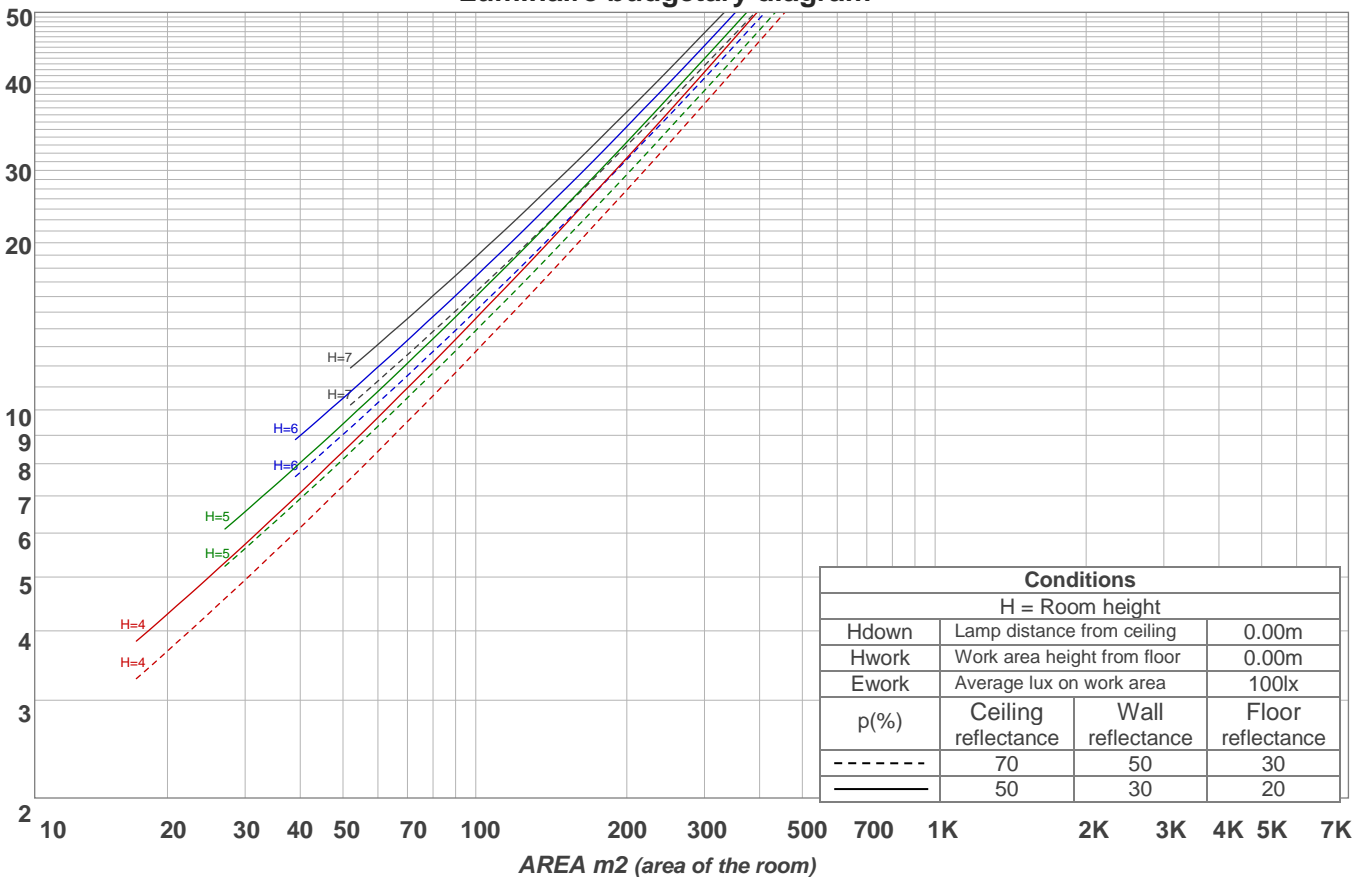
Light planning

Coefficients of Utilization

| Ceiling reflectance | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 | | | |
|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| Wall reflectance | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | |
| Floor reflectance | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 0 |
| RCR | (RCR: Room Cavity Ratio) | | | | | | | | | | | | | | | | | | | | |
| | Room Values are expressed as percentage of Lumens delivered to the task surface | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 98 | 93 | 89 | 94 | 91 | 87 | 91 | 88 | 85 | 88 | 86 | 84 | 82 | | | |
| 3 | 99 | 91 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 74 | | | |
| 4 | 93 | 84 | 77 | 72 | 91 | 82 | 76 | 71 | 80 | 75 | 71 | 78 | 73 | 70 | 76 | 72 | 69 | 67 | | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 61 | | | |
| 6 | 82 | 71 | 64 | 59 | 80 | 71 | 64 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 56 | | | |
| 7 | 77 | 66 | 59 | 54 | 76 | 66 | 59 | 54 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 53 | 52 | | | |
| 8 | 73 | 62 | 55 | 50 | 71 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 | | | |
| 9 | 69 | 58 | 51 | 47 | 68 | 57 | 51 | 47 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 50 | 46 | 44 | | | |
| 10 | 65 | 54 | 48 | 43 | 64 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 43 | 41 | | | |

LAMPS (number of lamps)

Luminaire budgetary diagram

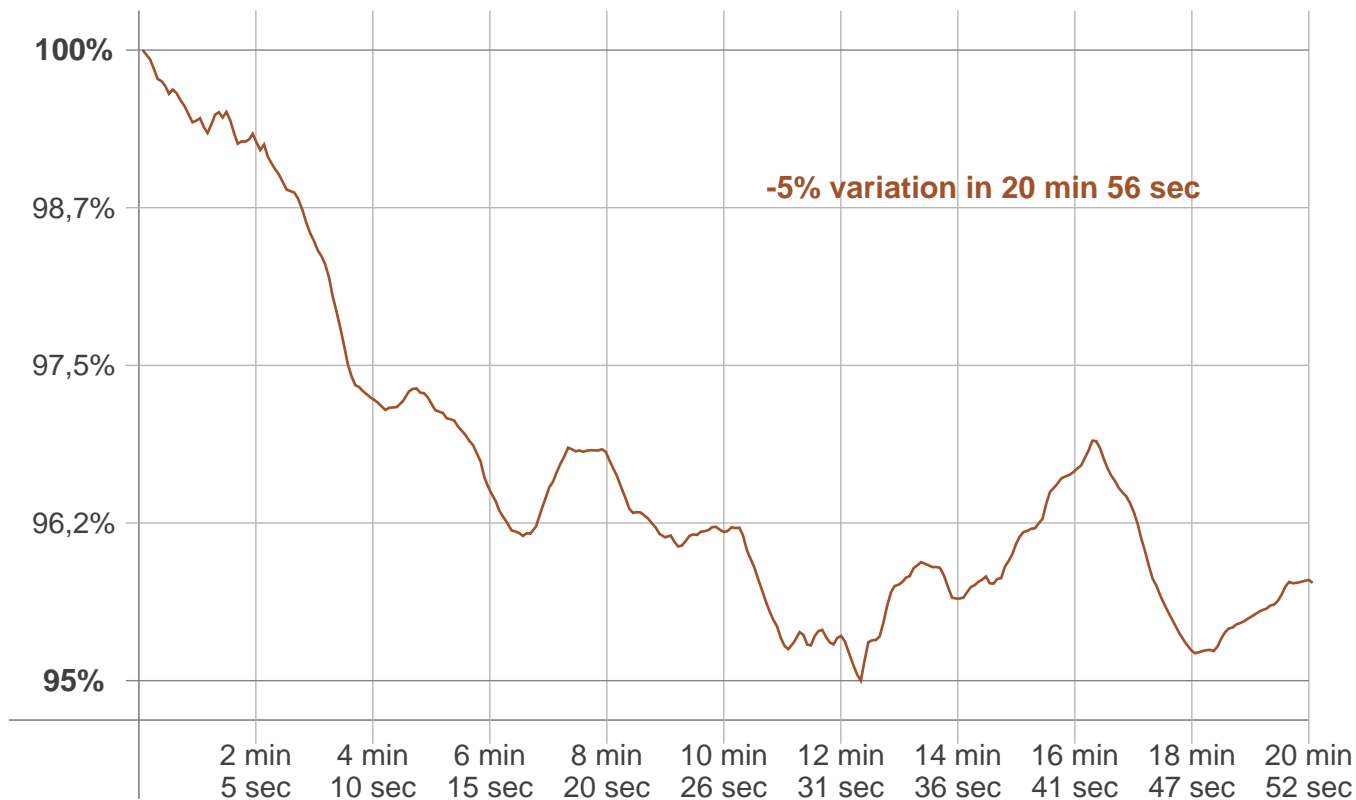


Zonal Lumen Summary

| | | | | | | | | |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0°-10° | 10°-20° | 20°-30° | 30°-40° | 40°-50° | 50°-60° | 60°-70° | 70°-80° | 80°-90° |
| 75,4 lm | 199 lm | 251 lm | 197 lm | 119 lm | 64,9 lm | 33,2 lm | 14,0 lm | 2,42 lm |
| 90°-100° | 100°-110° | 110°-120° | 120°-130° | 130°-140° | 140°-150° | 150°-160° | 160°-170° | 170°-180° |
| 0,066 lm | 0,058 lm | 0,055 lm | 0,060 lm | 0,066 lm | 0,063 lm | 0,049 lm | 0,026 lm | 0,006 lm |

Stabilization

Warmup curve



Warmup result

| | |
|------------------|---------------|
| Warmup time: | 20 min 56 sec |
| Warmup variation | -5,1% |

Warmup conditions

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

Color temperature change

| CCT start | CCT change | CCT end |
|-----------|------------|---------|
| 2918 K | +24 K | 2942 K |

Output change

| Output start | Output change | Output end |
|--------------|---------------|------------|
| 988 lm | -32 lm | 957 lm |