

SLED9122SF LUMINARIA LINEAR DE SOBREPOR 2x2 19Wm 5500K 80 1M



Fluxo luminoso – 1171 lm/m

Potência – 19,3 W/m

Intensidade pico – 420cd

CCT – 5742K

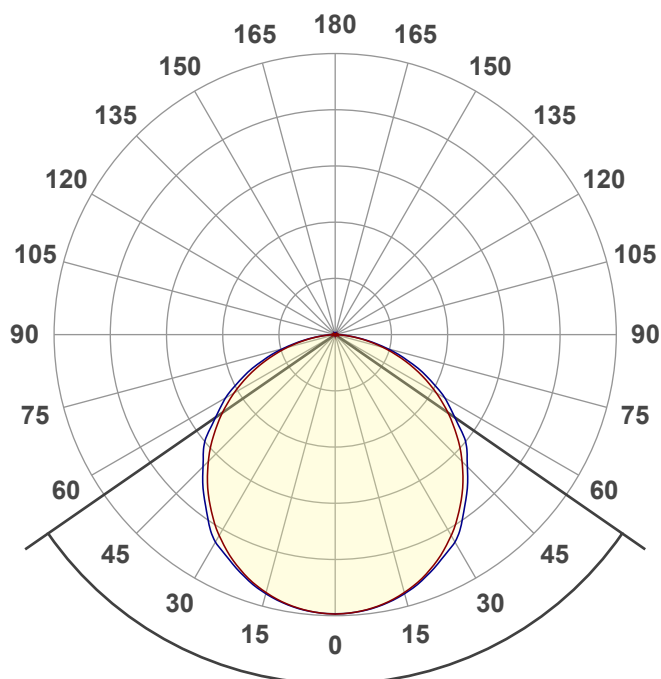


IRC – 84,4

Coordenada CIE 1931 – x- 0,327 y- 0,339

Data do ensaio

27/08/2024 13:35:20



Facho de abertura

110,6°

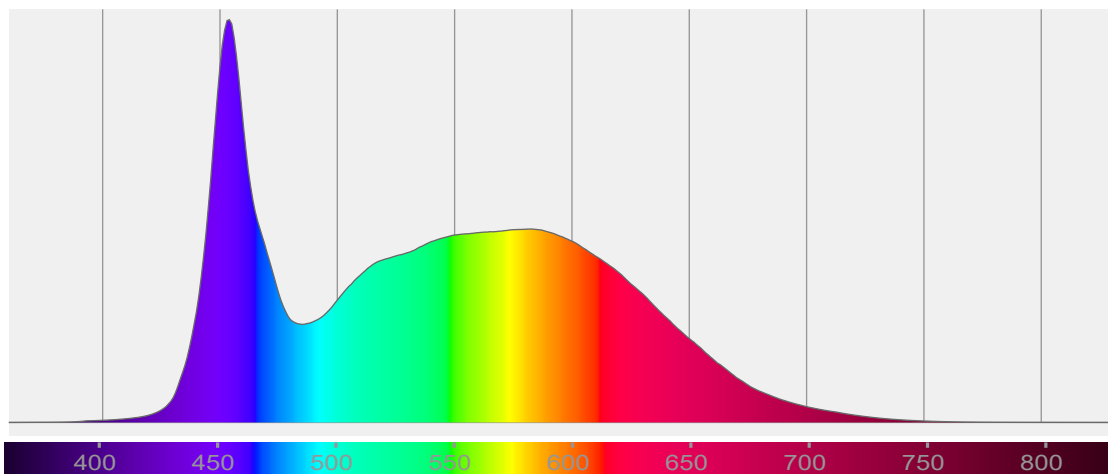
Rf 82,9

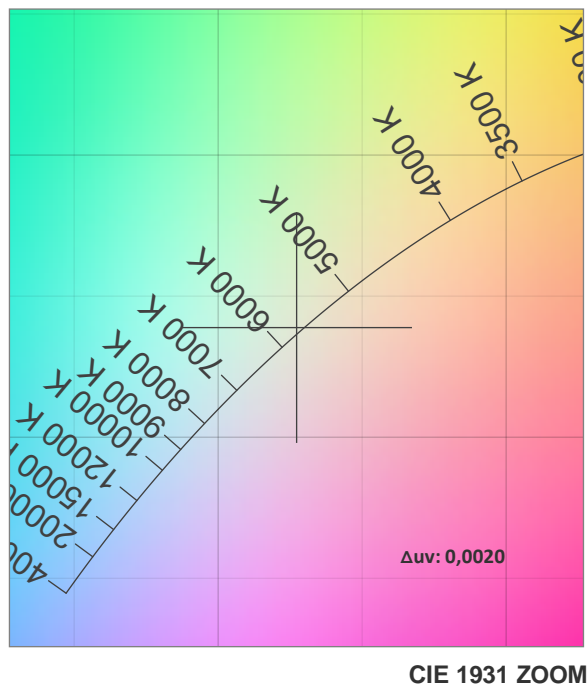
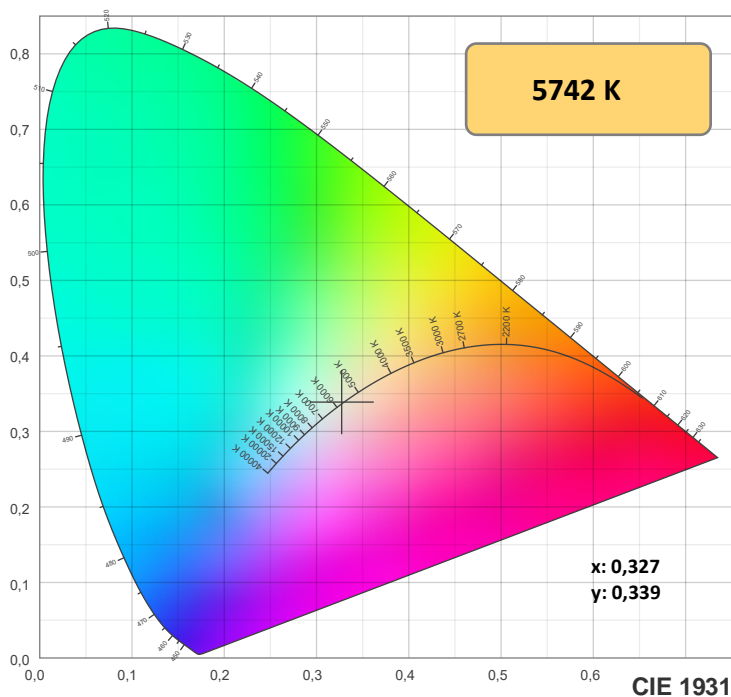
Fidelity index Rf

Rg 93,8

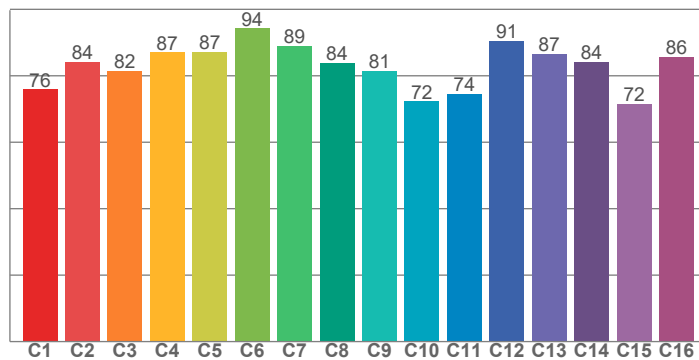
Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| 1 | 76 | -12% | 1% |
| 2 | 84 | -7% | 6% |
| 3 | 82 | -4% | 9% |
| 4 | 87 | -2% | 5% |
| 5 | 87 | -3% | 2% |
| 6 | 94 | -1% | -1% |
| 7 | 89 | -7% | -1% |
| 8 | 84 | -9% | 4% |
| 9 | 81 | -9% | 14% |
| 10 | 72 | -4% | 17% |
| 11 | 74 | 4% | 15% |
| 12 | 91 | 5% | 3% |
| 13 | 87 | 8% | -7% |
| 14 | 84 | 2% | -9% |
| 15 | 72 | 4% | -24% |
| 16 | 86 | -7% | -4% |

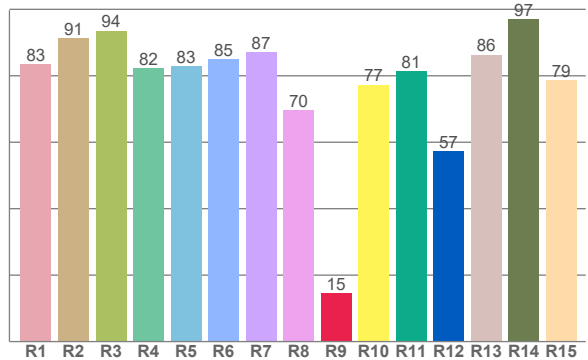




TM-30: 82,9



CRI: 84,4 (R1-R8)



CRiRa R1-R8 / CRiRe R1-R15

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 83,5 | 91,3 | 93,6 | 82,2 | 82,9 | 85,0 | 87,2 | 69,7 | 14,6 | 77,3 | 81,3 | 57,4 | 86,3 | 97,0 | 78,7 |

TM30 valores C. 16 valores extraídos dos 99.

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75,9 | 84,2 | 81,5 | 87,1 | 87,2 | 94,3 | 89,0 | 83,9 | 81,4 | 72,3 | 74,5 | 90,5 | 86,5 | 84,1 | 71,6 | 85,8 |

Parametros de cor

| Temperatura de cor | Índice de reprodução de cor | Reprodução de cor vermelho R9 | Color fidelity | Color gamut | Color quality scale | Coordenada de cor cie 1931 | Coordenada de cor cie 1931 | Coordenada de cor | Coordenada de cor | Color deviation from black body |
|--------------------|-----------------------------|-------------------------------|----------------|-------------|---------------------|----------------------------|----------------------------|-------------------|-------------------|---------------------------------|
| CCT | IRC | CRI R9 | TM30 Rf | TM30 Rg | CQS | x | y | u | v | Δuv |
| 5742 K | 84,4 | 14,6 | 82,9 | 93,8 | 80,6 | 0,327 | 0,339 | 0,204 | 0,317 | 0,0020 |

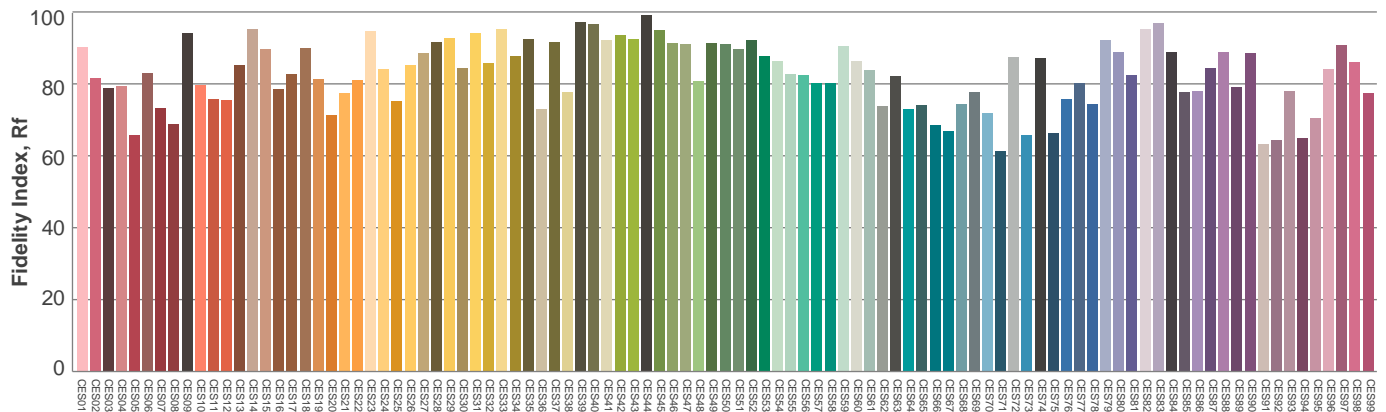
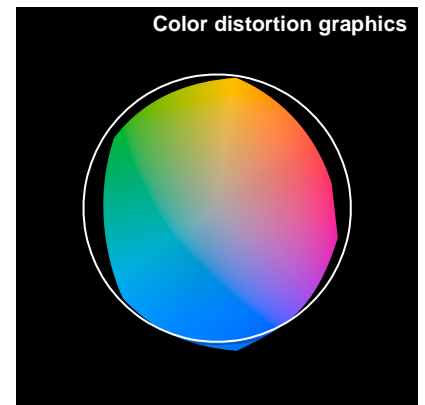
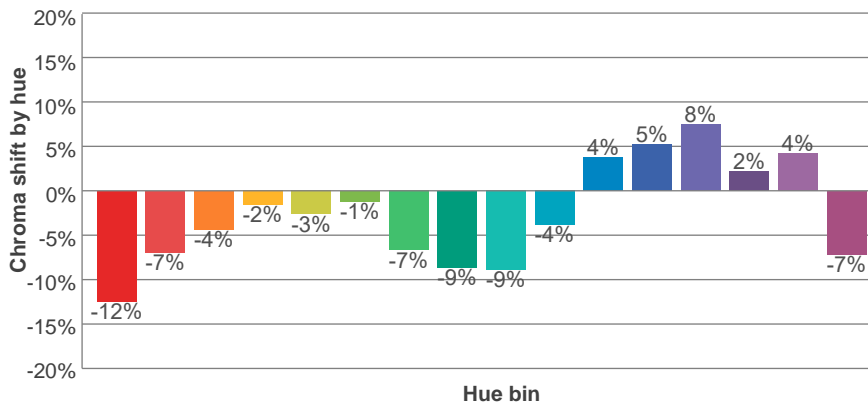
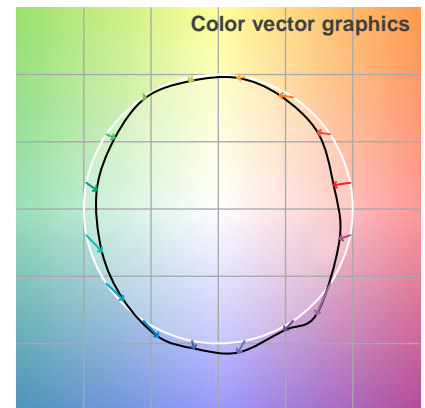
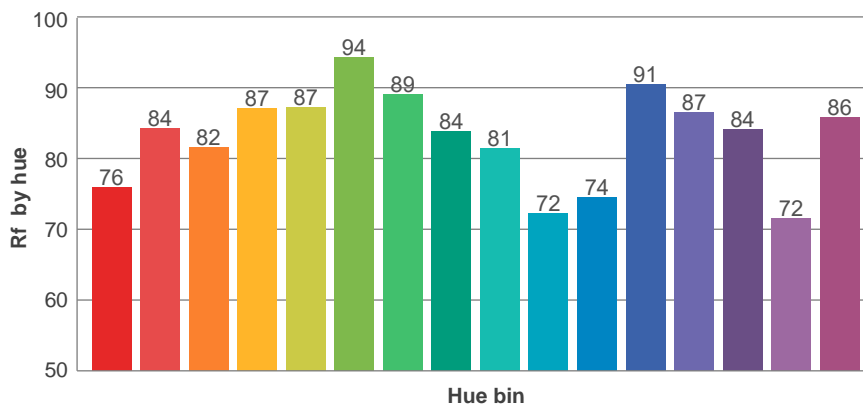
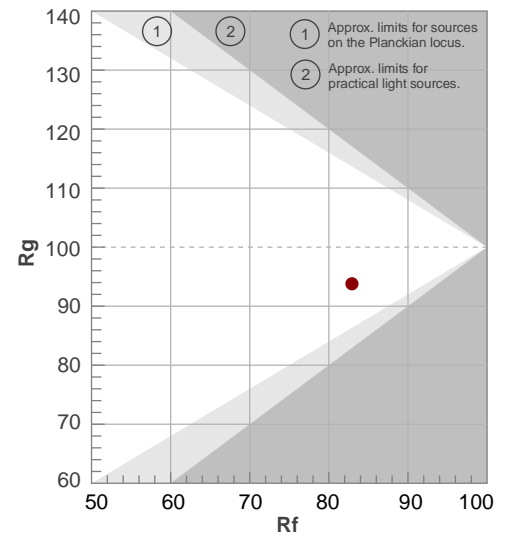
Rf 82,9

Fidelity index Rf

Rg 93,8

Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
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| 7 | 89 | -7% | -1% |
| 8 | 84 | -9% | 4% |
| 9 | 81 | -9% | 14% |
| 10 | 72 | -4% | 17% |
| 11 | 74 | 4% | 15% |
| 12 | 91 | 5% | 3% |
| 13 | 87 | 8% | -7% |
| 14 | 84 | 2% | -9% |
| 15 | 72 | 4% | -24% |
| 16 | 86 | -7% | -4% |



Avaliação todas as amostras de cores

Glare Evaluation According to UGR

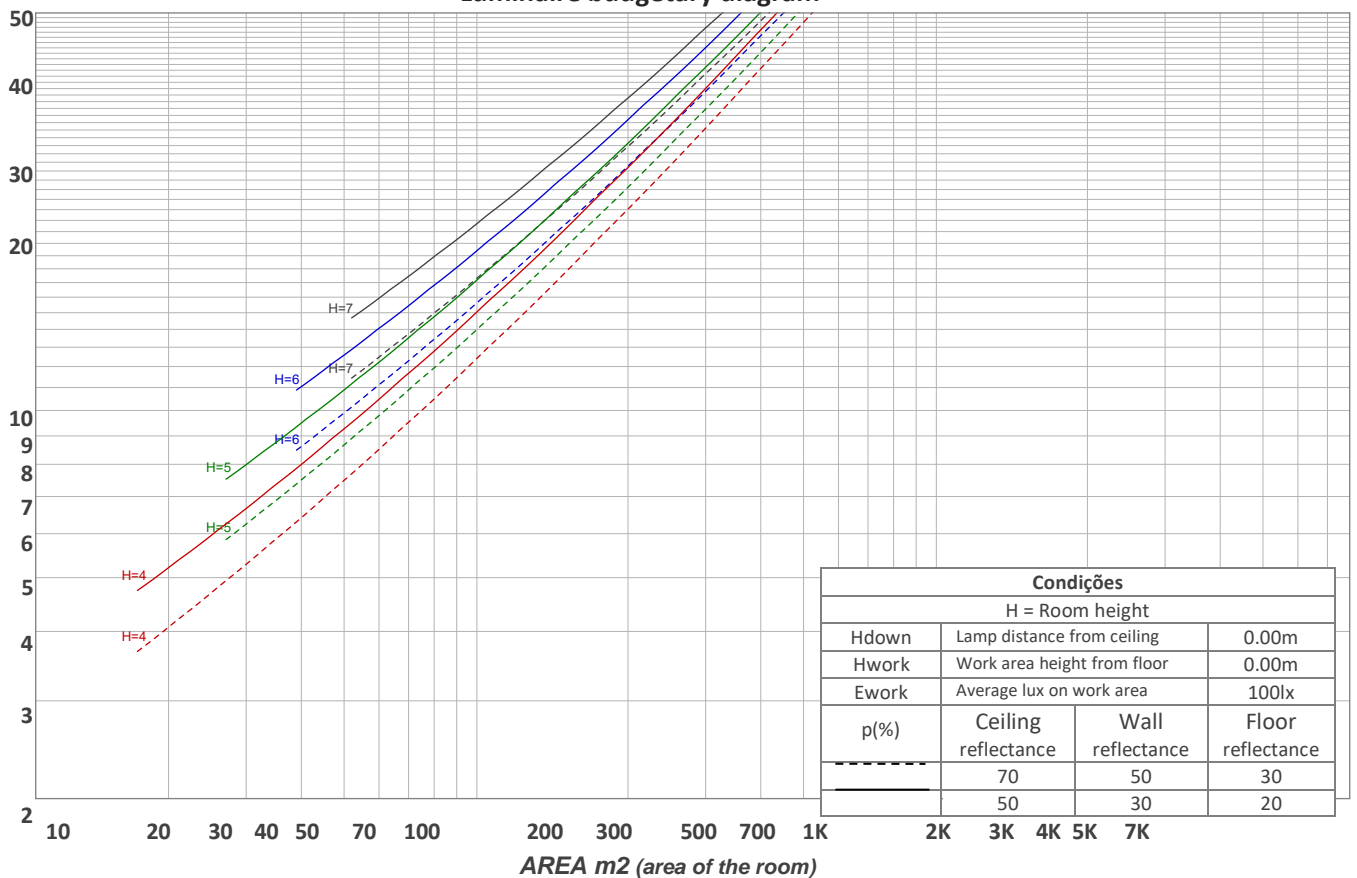
| | | | | | | | | | | | |
|--|-----|--|------|------|------|------|---|------|------|------|------|
| p Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| p Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| p Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room size X Y | | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 22,7 | 23,9 | 22,9 | 24,2 | 24,4 | 22,8 | 24,0 | 23,0 | 24,3 | 24,5 |
| | 3H | 24,1 | 25,4 | 24,5 | 25,7 | 25,9 | 24,3 | 25,5 | 24,7 | 25,8 | 26,0 |
| | 4H | 24,7 | 25,9 | 25,1 | 26,2 | 26,5 | 24,9 | 26,1 | 25,3 | 26,4 | 26,6 |
| | 6H | 25,2 | 26,3 | 25,5 | 26,5 | 26,9 | 25,4 | 26,4 | 25,7 | 26,7 | 27,1 |
| | 8H | 25,3 | 26,3 | 25,7 | 26,6 | 27,1 | 25,5 | 26,5 | 25,8 | 26,8 | 27,2 |
| | 12H | 25,4 | 26,3 | 25,7 | 26,7 | 27,1 | 25,5 | 26,5 | 25,9 | 26,9 | 27,3 |
| 4H | 2H | 23,3 | 24,5 | 23,7 | 24,8 | 25,0 | 23,4 | 24,6 | 23,8 | 24,8 | 25,1 |
| | 3H | 25,1 | 26,0 | 25,4 | 26,4 | 26,8 | 25,2 | 26,1 | 25,5 | 26,5 | 26,9 |
| | 4H | 25,7 | 26,6 | 26,1 | 27,0 | 27,6 | 25,8 | 26,7 | 26,2 | 27,1 | 27,7 |
| | 6H | 26,2 | 27,1 | 26,7 | 27,5 | 27,8 | 26,3 | 27,2 | 26,8 | 27,5 | 27,9 |
| | 8H | 26,4 | 27,2 | 26,9 | 27,5 | 27,9 | 26,4 | 27,2 | 27,0 | 27,6 | 28,0 |
| | 12H | 26,5 | 27,1 | 27,0 | 27,5 | 28,0 | 26,5 | 27,2 | 27,0 | 27,6 | 28,1 |
| 8H | 4H | 26,0 | 26,8 | 26,5 | 27,1 | 27,5 | 26,0 | 26,8 | 26,6 | 27,2 | 27,6 |
| | 6H | 26,6 | 27,2 | 27,1 | 27,7 | 28,3 | 26,7 | 27,3 | 27,2 | 27,7 | 28,3 |
| | 8H | 26,9 | 27,4 | 27,4 | 27,9 | 28,6 | 26,9 | 27,4 | 27,4 | 27,9 | 28,6 |
| | 12H | 27,0 | 27,5 | 27,6 | 28,0 | 28,6 | 27,0 | 27,5 | 27,6 | 28,0 | 28,6 |
| 12H | 4H | 26,0 | 26,6 | 26,5 | 27,1 | 27,5 | 26,1 | 26,7 | 26,5 | 27,1 | 27,6 |
| | 6H | 26,7 | 27,2 | 27,2 | 27,7 | 28,4 | 26,7 | 27,3 | 27,2 | 27,8 | 28,4 |
| | 8H | 27,0 | 27,4 | 27,5 | 27,9 | 28,5 | 27,0 | 27,4 | 27,5 | 27,9 | 28,5 |
| 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 | | | | | 0,1 / -0,2 | | | | |
| S = 2.0H | | 0,4 / -0,5 | | | | | 0,5 / -0,6 | | | | |
| Standard table | | n/a | | | | | n/a | | | | |
| Correction summand | | n/a | | | | | n/a | | | | |
| Corrected glare indices referring to 1171 lm total luminous flux | | | | | | | | | | | |

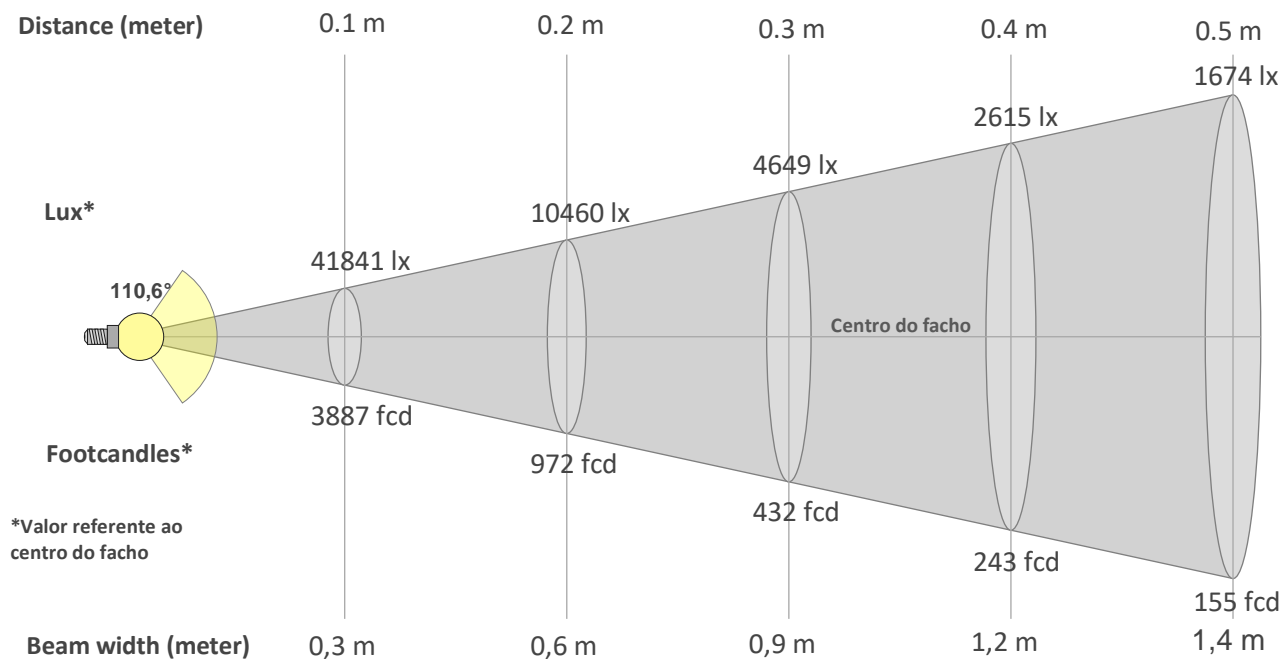
Coeficiente de utilização

| 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 | 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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 98 | 94 | 91 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 75 | 82 | 78 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 64 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 54 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 46 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 36 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 38 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 30 |
| 9 | 57 | 43 | 35 | 29 | 55 | 43 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

Quantidade de luminárias

Luminaire budgetary diagram





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 |
| 418lx | 105lx | 46lx | 26lx | 17lx | 12lx | 9lx | 7lx | 5lx | 4lx | 3lx | 3lx | 2lx | 2lx | 2lx | 2lx | 1lx | 1lx | 1lx | 1lx |
| 38,9fcd | 9,7fcd | 4,3fcd | 2,4fcd | 1,6fcd | 1,1fcd | 0,8fcd | 0,6fcd | 0,5fcd | 0,4fcd | 0,3fcd | 0,3fcd | 0,2fcd | 0,2fcd | 0,2fcd | 0,2fcd | 0,1fcd | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 418 | 416 | 410 | 400 | 386 | 369 | 347 | 323 | 297 | 269 | 239 | 207 | 175 | 142 | 107 | 74 | 43 | 16 | 1 | 0 |
| 100% | 99% | 98% | 96% | 92% | 88% | 83% | 77% | 71% | 64% | 57% | 50% | 42% | 34% | 26% | 18% | 10% | 4% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 418 | 416 | 411 | 402 | 389 | 373 | 359 | 333 | 307 | 280 | 256 | 220 | 189 | 154 | 117 | 81 | 46 | 17 | 2 | 1 |
| 100% | 99% | 98% | 96% | 93% | 89% | 86% | 80% | 73% | 67% | 61% | 53% | 45% | 37% | 28% | 19% | 11% | 4% | 0% | 0% |

Intensities in 180° c-plane

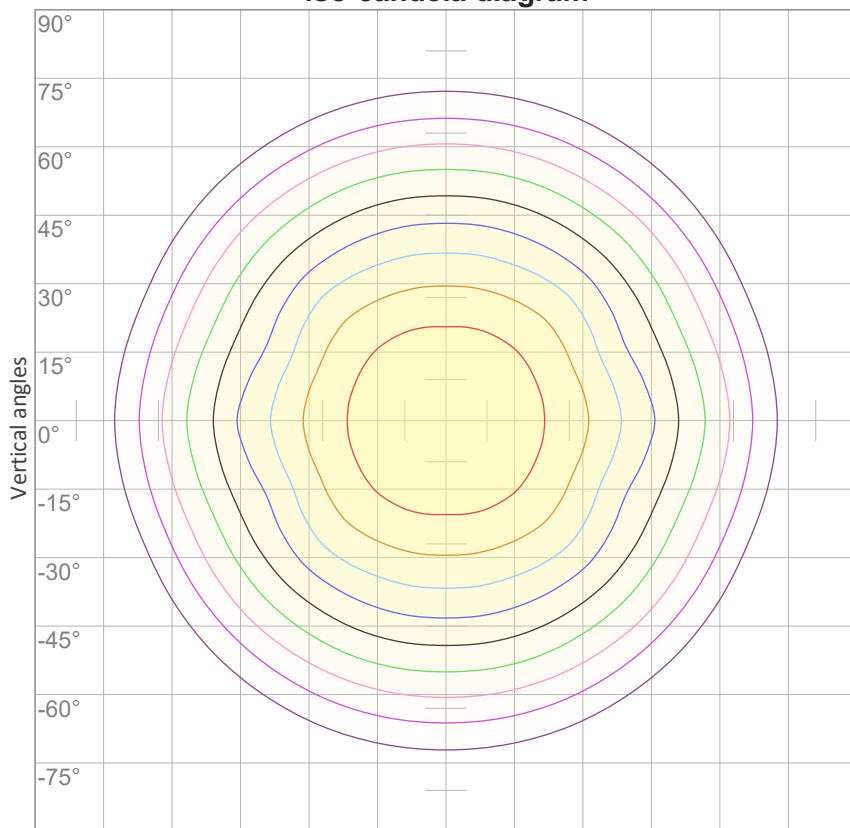
| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 418 | 416 | 410 | 400 | 386 | 369 | 347 | 323 | 297 | 269 | 239 | 207 | 175 | 142 | 107 | 74 | 43 | 16 | 1 | 0 |
| 100% | 99% | 98% | 96% | 92% | 88% | 83% | 77% | 71% | 64% | 57% | 50% | 42% | 34% | 26% | 18% | 10% | 4% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 418 | 416 | 411 | 402 | 389 | 373 | 359 | 333 | 307 | 280 | 256 | 220 | 189 | 154 | 117 | 81 | 46 | 17 | 2 | 1 |
| 100% | 99% | 98% | 96% | 93% | 89% | 86% | 80% | 73% | 67% | 61% | 53% | 45% | 37% | 28% | 19% | 11% | 4% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 110,6° | 160° | 171,9° | 79,3% | 54,3% |

iso-candela diagram



Horizontal angles

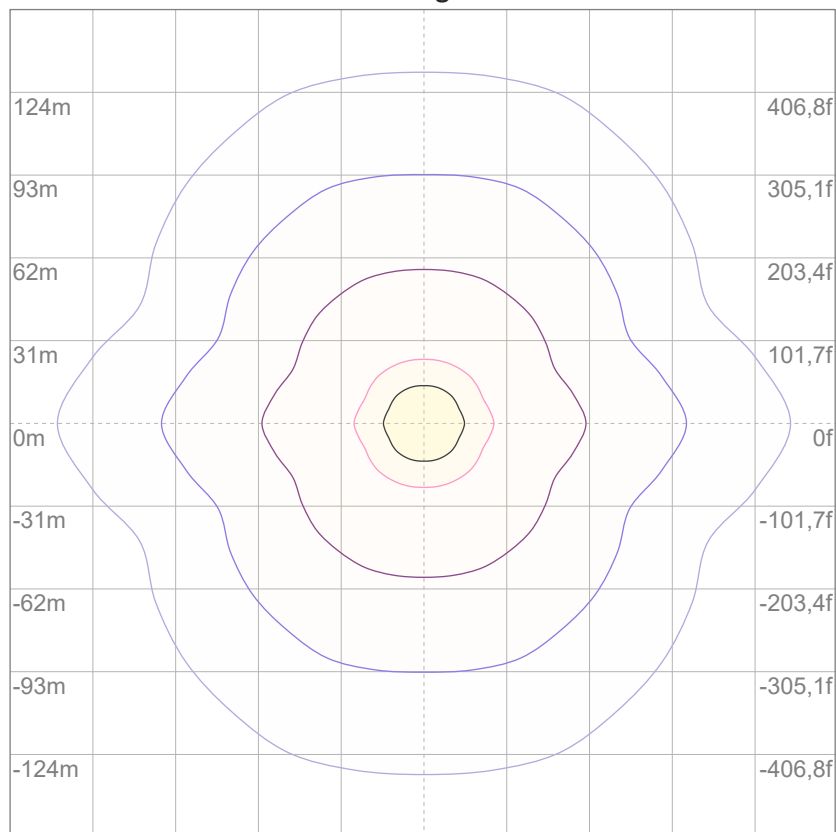
| | |
|-----|--------|
| 10% | 42 cd |
| 20% | 84 cd |
| 30% | 126 cd |
| 40% | 167 cd |
| 50% | 209 cd |
| 60% | 251 cd |
| 70% | 293 cd |
| 80% | 335 cd |
| 90% | 377 cd |

Conditions:

Number of c-planes: 16

Candela at center: 418 cd

iso-lux diagram



Mounting height: 10 meters

| | |
|-----|----------|
| 3% | 0,126 lx |
| 5% | 0,209 lx |
| 10% | 0,418 lx |
| 30% | 1,26 lx |
| 50% | 2,09 lx |

Conditions:

Number of c-planes: 16

Lux at center: 4,18 lx

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

Potência



Vttagem: 12,0 V

Corrente: 1,61 A

Frequência: 0 Hz

FP: 1,0

THD



THD corrente: n/a

THD tensão: n/a