

SLED9122SF LUMINARIA LINEAR DE SOBREPOR 2x2 9,6Wm 4000K 80 1M



Fluxo luminoso – 560 lm/m

Potência – 9,3 W/m

Intensidade pico – 198cd

CCT – 4082K

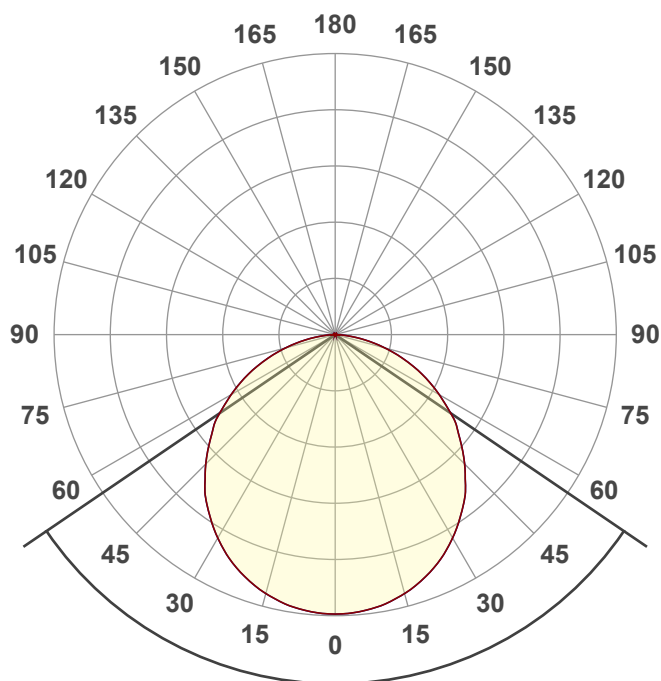


IRC – 82,0

Coordenada CIE 1931 – x- 0,378 y- 0,379

Data do ensaio

27/08/2024 11:22:15



Facho de abertura

111,5°

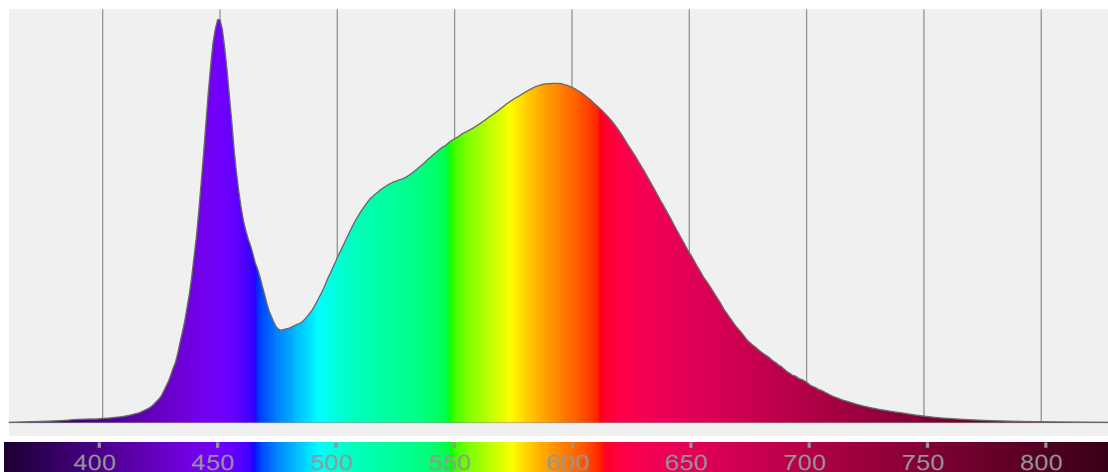
Rf 83,5

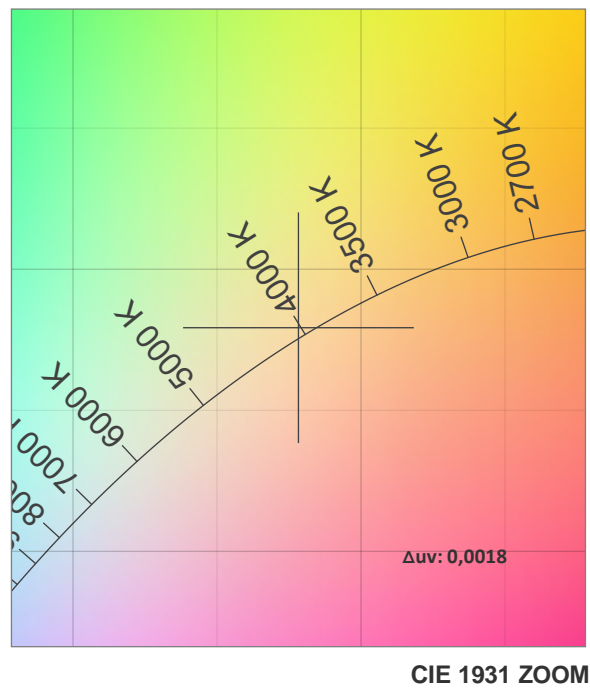
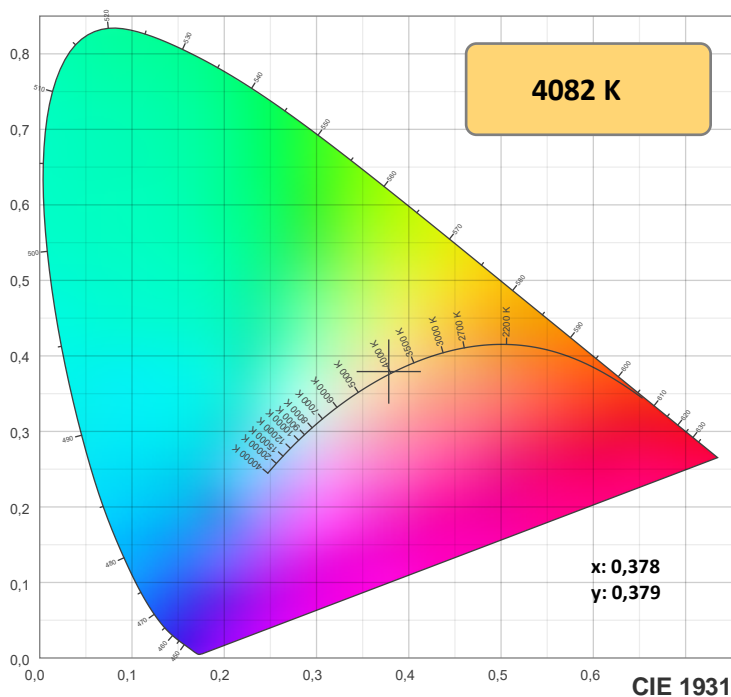
Fidelity index Rf

Rg 95,8

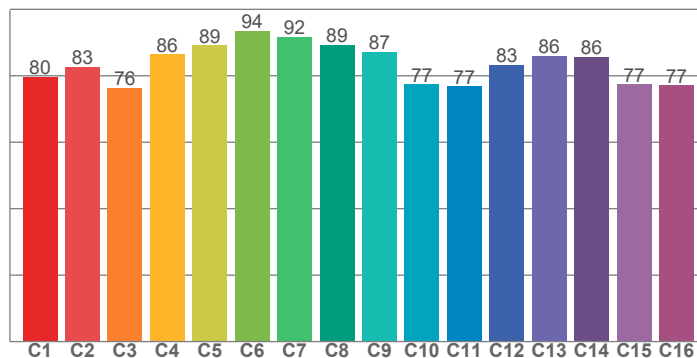
Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| 1 | 80 | -12% | -1% |
| 2 | 83 | -8% | 6% |
| 3 | 76 | -4% | 12% |
| 4 | 86 | 1% | 8% |
| 5 | 89 | 2% | 5% |
| 6 | 94 | 3% | -2% |
| 7 | 92 | -3% | -4% |
| 8 | 89 | -6% | -2% |
| 9 | 87 | -8% | 4% |
| 10 | 77 | -8% | 11% |
| 11 | 77 | 2% | 15% |
| 12 | 83 | 6% | 7% |
| 13 | 86 | 9% | -6% |
| 14 | 86 | 5% | -7% |
| 15 | 77 | 0% | -17% |
| 16 | 77 | -5% | -14% |

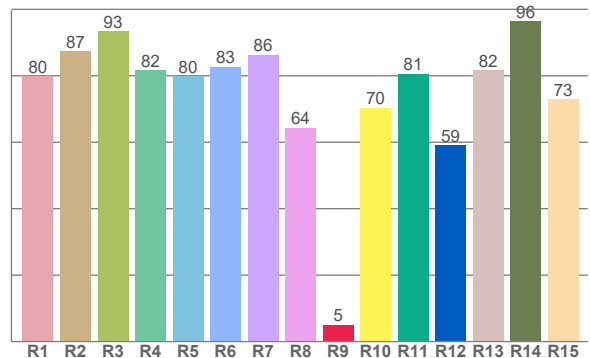




TM-30: 83,5



CRI: 82,0 (R1-R8)



CRIRA R1-R8 / CRIR R1-R15

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 79,9 | 87,4 | 93,4 | 81,7 | 79,9 | 82,7 | 86,3 | 64,3 | 5,0 | 70,4 | 80,6 | 59,1 | 81,7 | 96,4 | 72,9 |

TM30 valores C. 16 valores extraídos dos 99.

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79,7 | 82,7 | 76,4 | 86,5 | 89,2 | 93,6 | 91,7 | 89,3 | 87,2 | 77,4 | 76,8 | 83,3 | 85,9 | 85,7 | 77,4 | 77,1 |

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 |
| 4082 K | 82,0 | 5,0 | 83,5 | 95,8 | 81,7 | 0,378 | 0,379 | 0,223 | 0,335 | 0,0018 |

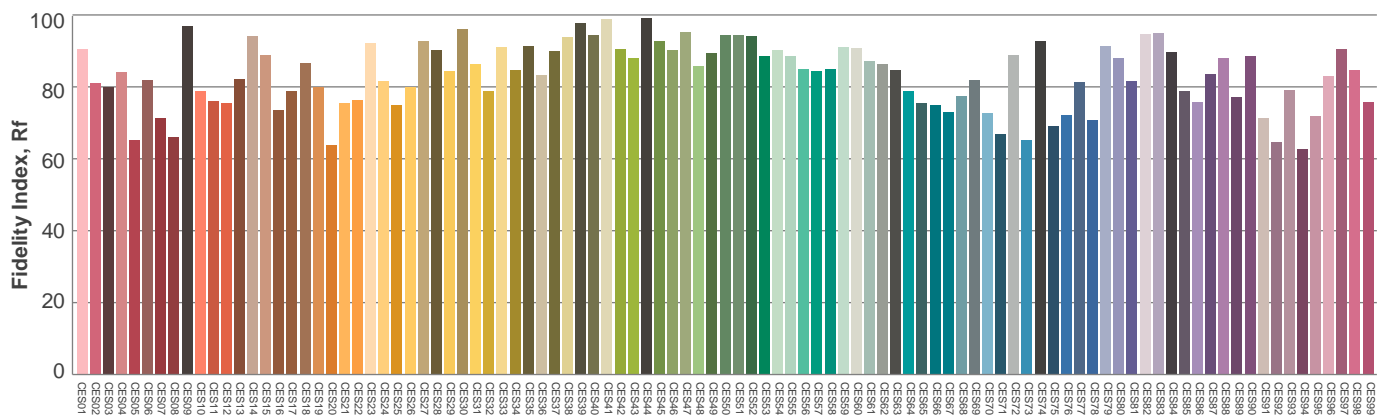
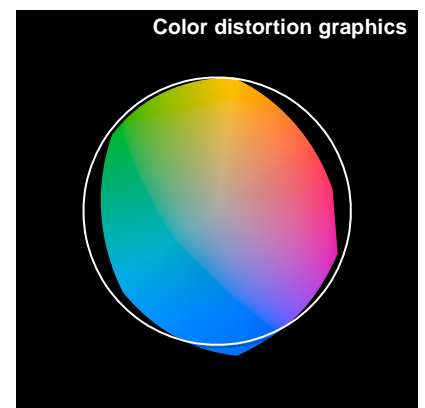
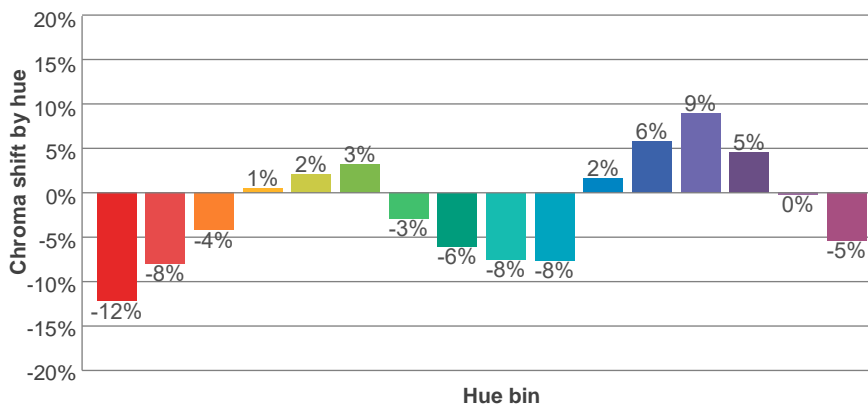
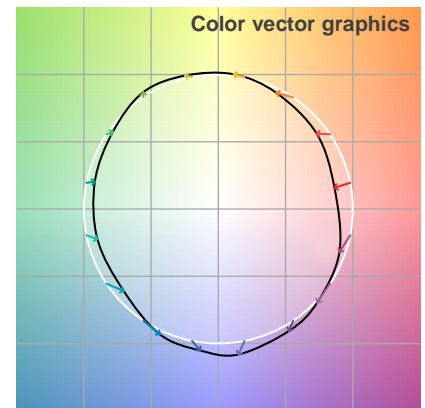
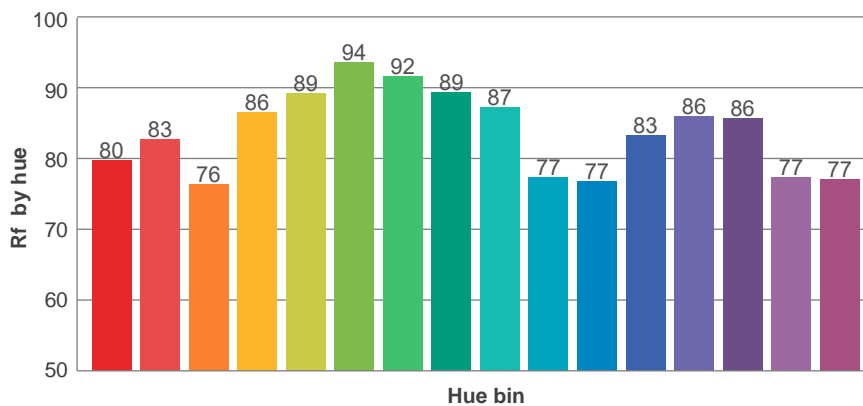
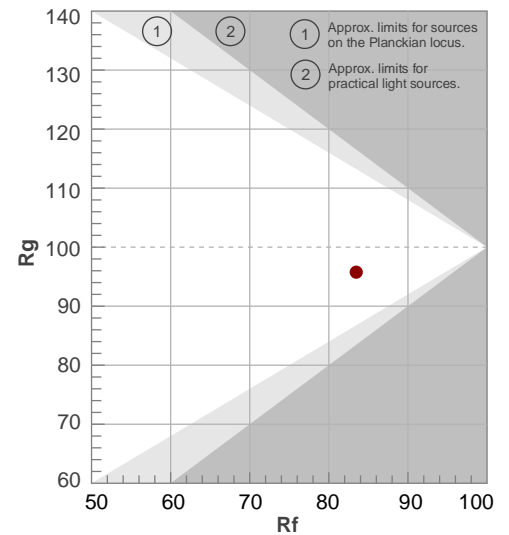
Rf 83,5

Fidelity index Rf

Rg 95,8

Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
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| | | Chroma | Hue |
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| 10 | 77 | -8% | 11% |
| 11 | 77 | 2% | 15% |
| 12 | 83 | 6% | 7% |
| 13 | 86 | 9% | -6% |
| 14 | 86 | 5% | -7% |
| 15 | 77 | 0% | -17% |
| 16 | 77 | -5% | -14% |



Avaliação todas as amostras de cores

Glare Evaluation According to UGR

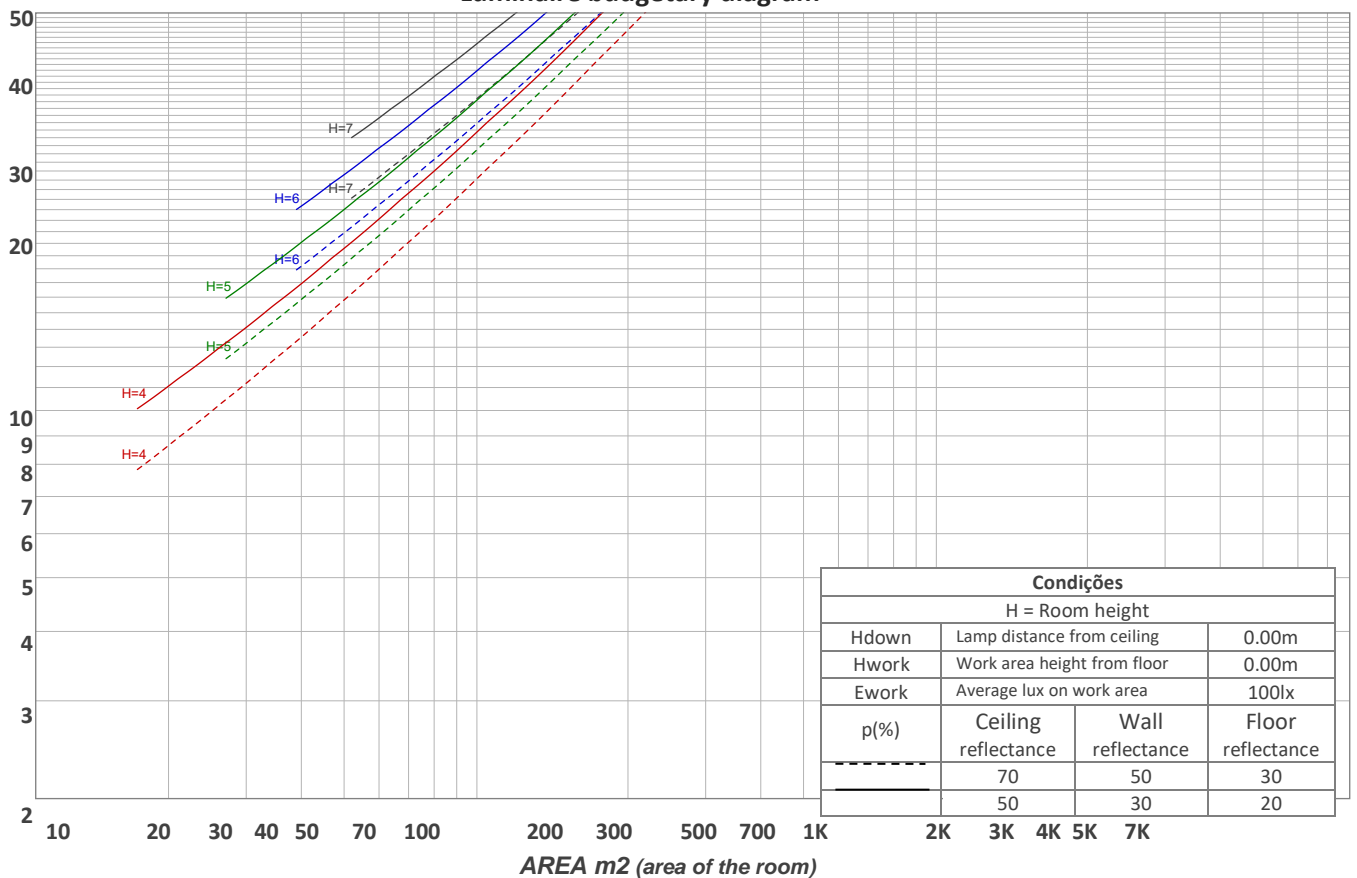
| | | | | | | | | | | | |
|---|-----|--|------|------|------|------|---|------|------|------|------|
| p Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| p Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| p Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room size X Y | | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 20,2 | 21,4 | 20,4 | 21,7 | 21,9 | 20,2 | 21,4 | 20,4 | 21,7 | 21,9 |
| | 3H | 21,6 | 22,9 | 22,0 | 23,2 | 23,4 | 21,6 | 22,9 | 22,0 | 23,2 | 23,4 |
| | 4H | 22,2 | 23,4 | 22,6 | 23,7 | 24,0 | 22,2 | 23,4 | 22,6 | 23,7 | 24,0 |
| | 6H | 22,7 | 23,8 | 23,0 | 24,1 | 24,4 | 22,7 | 23,8 | 23,0 | 24,1 | 24,4 |
| | 8H | 22,8 | 23,8 | 23,2 | 24,2 | 24,6 | 22,8 | 23,8 | 23,2 | 24,2 | 24,6 |
| | 12H | 22,9 | 23,9 | 23,2 | 24,2 | 24,7 | 22,9 | 23,9 | 23,2 | 24,2 | 24,7 |
| 4H | 2H | 20,8 | 22,0 | 21,2 | 22,2 | 22,5 | 20,8 | 22,0 | 21,2 | 22,2 | 22,5 |
| | 3H | 22,5 | 23,5 | 22,9 | 23,9 | 24,3 | 22,5 | 23,5 | 22,9 | 23,9 | 24,3 |
| | 4H | 23,2 | 24,1 | 23,6 | 24,5 | 25,1 | 23,2 | 24,1 | 23,6 | 24,5 | 25,1 |
| | 6H | 23,7 | 24,6 | 24,2 | 25,0 | 25,3 | 23,7 | 24,6 | 24,2 | 25,0 | 25,3 |
| | 8H | 23,9 | 24,7 | 24,4 | 25,0 | 25,4 | 23,9 | 24,7 | 24,4 | 25,0 | 25,4 |
| | 12H | 24,0 | 24,6 | 24,5 | 25,1 | 25,5 | 24,0 | 24,6 | 24,5 | 25,1 | 25,5 |
| 8H | 4H | 23,5 | 24,3 | 24,0 | 24,6 | 25,0 | 23,5 | 24,3 | 24,0 | 24,6 | 25,0 |
| | 6H | 24,1 | 24,7 | 24,7 | 25,2 | 25,8 | 24,1 | 24,7 | 24,7 | 25,2 | 25,8 |
| | 8H | 24,4 | 24,9 | 24,9 | 25,4 | 26,1 | 24,4 | 24,9 | 24,9 | 25,4 | 26,1 |
| | 12H | 24,5 | 25,0 | 25,1 | 25,5 | 26,1 | 24,5 | 25,0 | 25,1 | 25,5 | 26,1 |
| 12H | 4H | 23,5 | 24,1 | 24,0 | 24,6 | 25,1 | 23,5 | 24,1 | 24,0 | 24,6 | 25,1 |
| | 6H | 24,2 | 24,7 | 24,7 | 25,3 | 25,9 | 24,2 | 24,7 | 24,7 | 25,3 | 25,9 |
| | 8H | 24,5 | 24,9 | 25,1 | 25,4 | 26,0 | 24,5 | 24,9 | 25,1 | 25,4 | 26,0 |
| 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 / -0,3 | | | | | 0,1 / -0,3 | | | | |
| S = 2.0H | | 0,4 / -0,5 | | | | | 0,4 / -0,5 | | | | |
| Standard table | | n/a | | | | | n/a | | | | |
| Correction summand | | n/a | | | | | n/a | | | | |
| Corrected glare indices referring to 560 lm total luminous flux | | | | | | | | | | | |

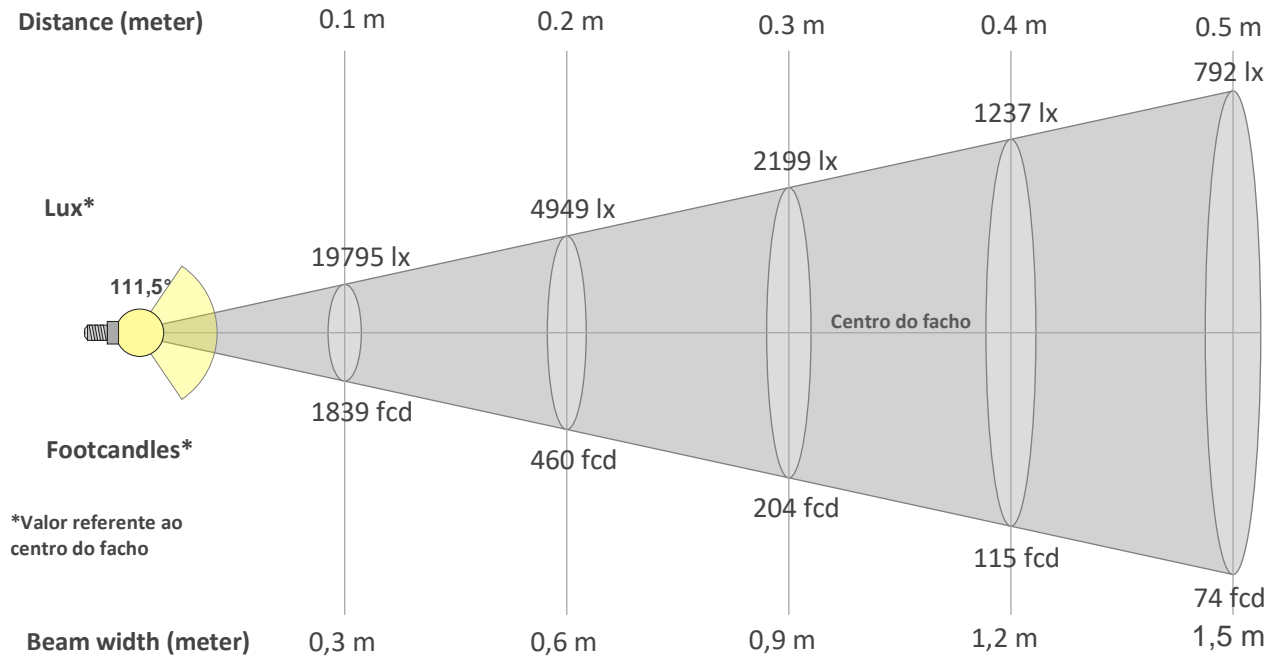
Coeficiente de utilização

| 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 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 86 | 83 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 69 |
| 3 | 90 | 79 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 58 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 66 | 59 | 54 | 64 | 58 | 53 | 62 | 56 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 57 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 40 | 38 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 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 |
| 198lx | 49lx | 22lx | 12lx | 8lx | 5lx | 4lx | 3lx | 2lx | 2lx | 2lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx | 0lx |
| 18,4fcd | 4,6fcd | 2fcd | 1,1fcd | 0,7fcd | 0,5fcd | 0,4fcd | 0,3fcd | 0,2fcd | 0,2fcd | 0,2fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0fcd |

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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 198 | 197 | 194 | 190 | 184 | 176 | 166 | 155 | 144 | 130 | 115 | 102 | 85 | 69 | 53 | 36 | 21 | 8 | 1 | 1 |
| 100% | 100% | 98% | 96% | 93% | 89% | 84% | 79% | 73% | 65% | 58% | 51% | 43% | 35% | 27% | 18% | 11% | 4% | 1% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 198 | 197 | 194 | 190 | 184 | 176 | 166 | 155 | 144 | 130 | 115 | 102 | 85 | 69 | 53 | 36 | 21 | 8 | 1 | 1 |
| 100% | 100% | 98% | 96% | 93% | 89% | 84% | 79% | 73% | 65% | 58% | 51% | 43% | 35% | 27% | 18% | 11% | 4% | 1% | 0% |

Intensities in 180° c-plane

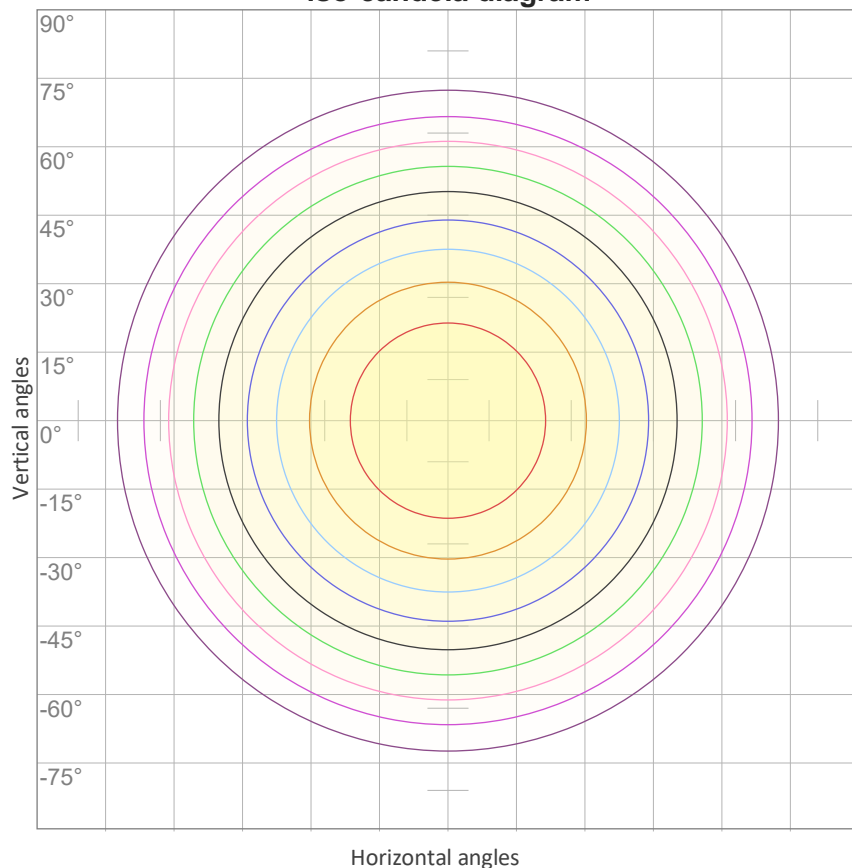
| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 198 | 197 | 194 | 190 | 184 | 176 | 166 | 155 | 144 | 130 | 115 | 102 | 85 | 69 | 53 | 36 | 21 | 8 | 1 | 1 |
| 100% | 100% | 98% | 96% | 93% | 89% | 84% | 79% | 73% | 65% | 58% | 51% | 43% | 35% | 27% | 18% | 11% | 4% | 1% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 198 | 197 | 194 | 190 | 184 | 176 | 166 | 155 | 144 | 130 | 115 | 102 | 85 | 69 | 53 | 36 | 21 | 8 | 1 | 1 |
| 100% | 100% | 98% | 96% | 93% | 89% | 84% | 79% | 73% | 65% | 58% | 51% | 43% | 35% | 27% | 18% | 11% | 4% | 1% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 111,5° | 160,9° | 173° | 78,8% | 53,8% |

iso-candela diagram



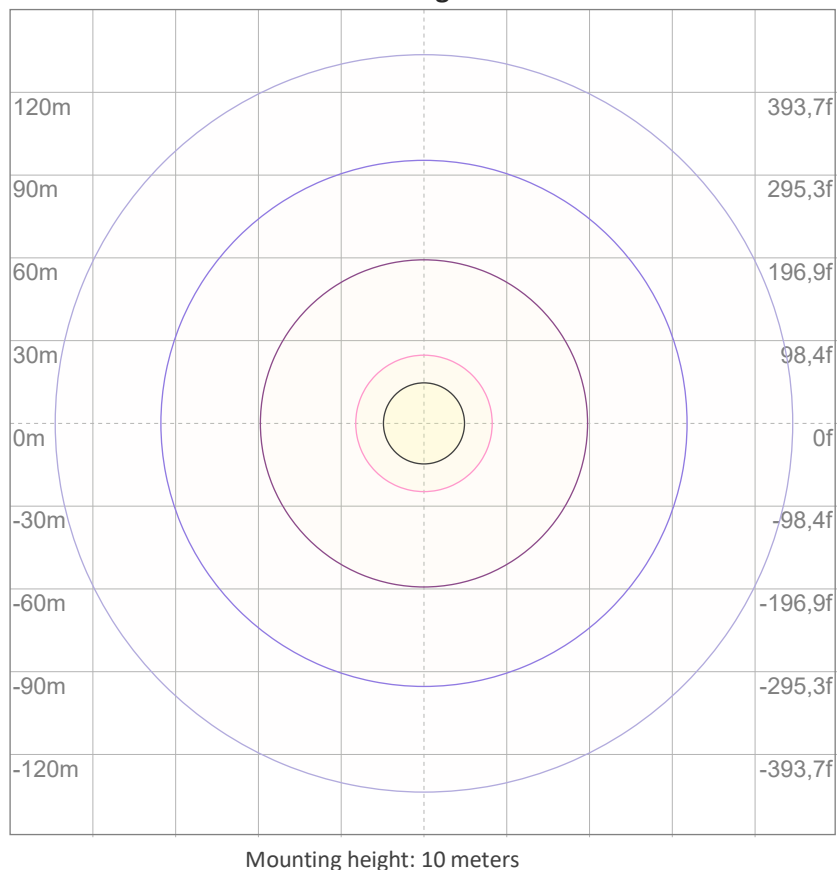
| | |
|-----|--------|
| 10% | 20 cd |
| 20% | 40 cd |
| 30% | 59 cd |
| 40% | 79 cd |
| 50% | 99 cd |
| 60% | 119 cd |
| 70% | 139 cd |
| 80% | 158 cd |
| 90% | 178 cd |

Conditions:

Number of c-planes: 16

Candela at center: 198 cd

iso-lux diagram



| | |
|-----|----------|
| 3% | 59,4m lx |
| 5% | 99,0m lx |
| 10% | 0,198 lx |
| 30% | 0,594 lx |
| 50% | 0,990 lx |

Conditions:

Number of c-planes: 16

Lux at center: 1,98 lx

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

Potência



Vttagem: 12,0 V

Corrente: 0,777 A

Frequência: 0 Hz

FP: 1,0

THD



THD corrente: n/a

THD tensão: n/a