

SLED9122SF LUMINARIA LINEAR DE SOBREPOR 2x2 11Wm 3000K 95 1M



Fluxo luminoso – 476 lm/m

Potência – 11,3 W/m

Intensidade pico – 154cd

CCT – 2996K

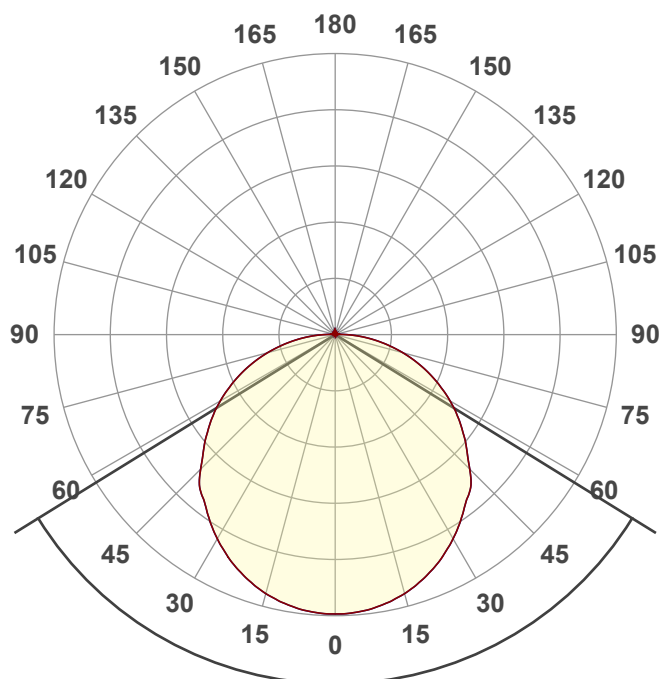


IRC – 98,0

Coordenada CIE 1931 – x- 0,434 y- 0,397

Data do ensaio

30/08/2024 14:13:12



Facho de abertura

116,5°

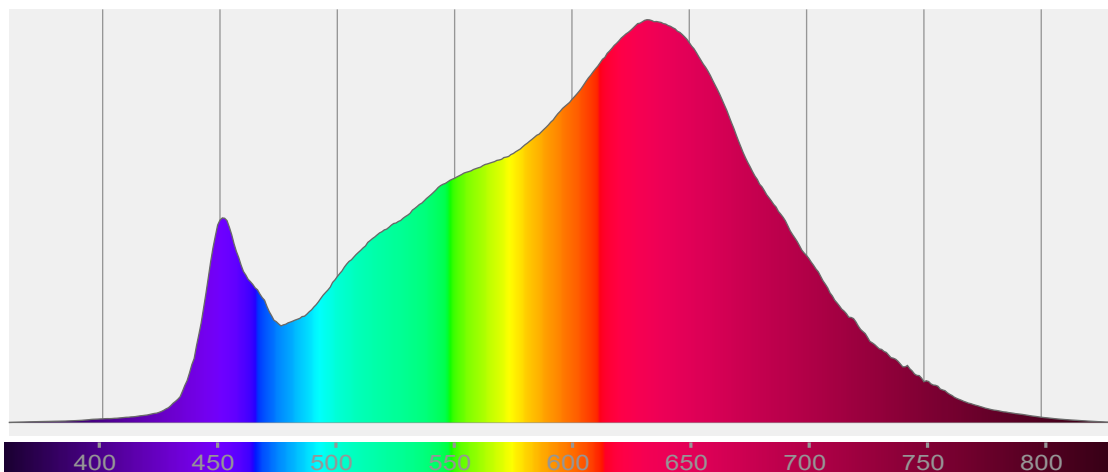
Rf 94,5

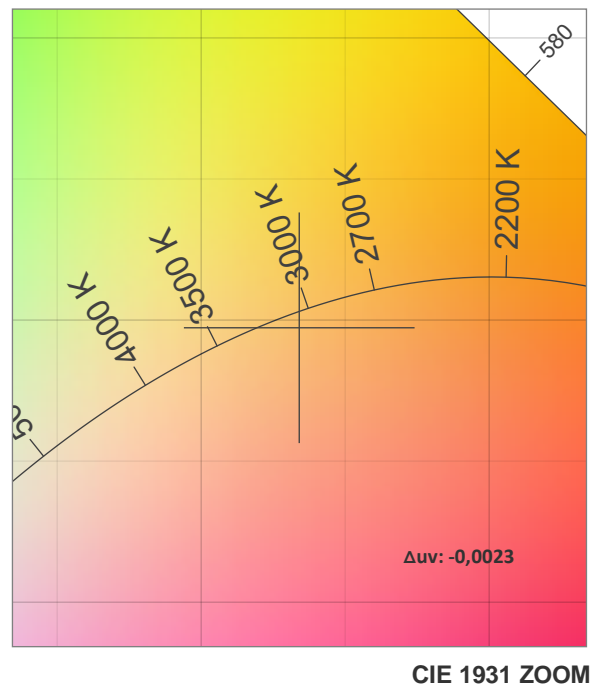
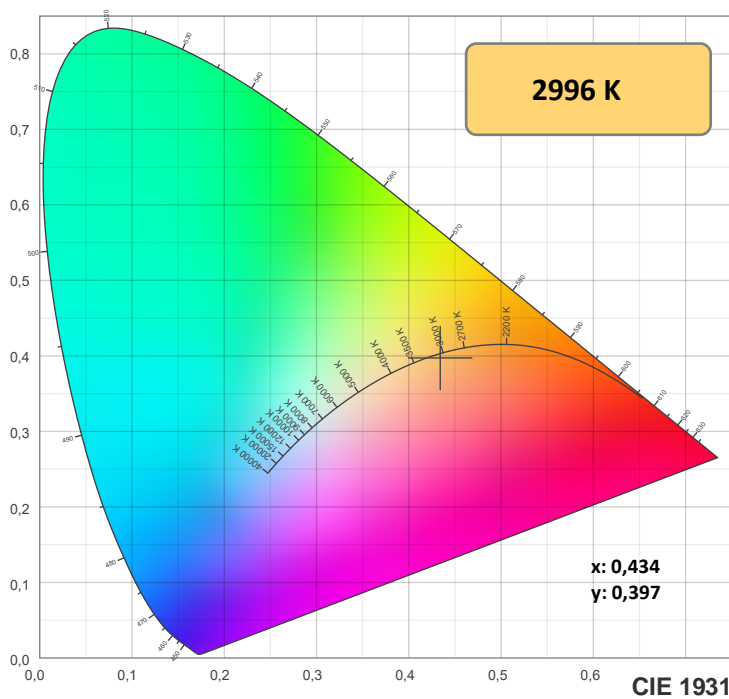
Fidelity index Rf

Rg 101,9

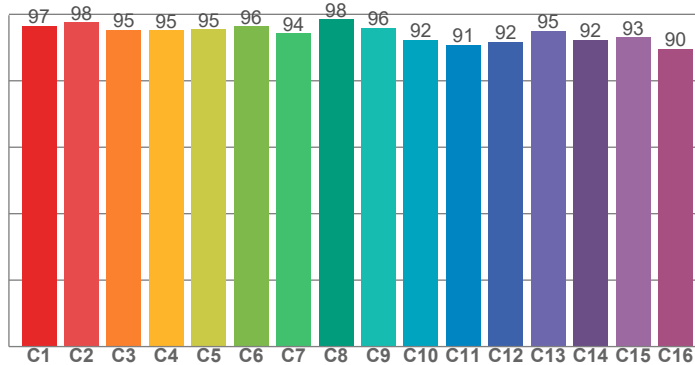
Gamut index Rg

| | | Shifts (%) | |
|---------|----------------|------------|-----|
| Hue Bin | R _f | Chroma | Hue |
| 1 | 97 | -1% | 0% |
| 2 | 98 | 0% | 0% |
| 3 | 95 | 0% | 2% |
| 4 | 95 | -2% | 0% |
| 5 | 95 | 0% | 2% |
| 6 | 96 | 2% | 1% |
| 7 | 94 | -1% | 1% |
| 8 | 98 | 0% | 0% |
| 9 | 96 | 0% | 3% |
| 10 | 92 | 1% | 5% |
| 11 | 91 | 3% | 7% |
| 12 | 92 | 5% | 1% |
| 13 | 95 | 2% | -3% |
| 14 | 92 | 5% | -4% |
| 15 | 93 | 1% | -3% |
| 16 | 90 | 2% | -8% |

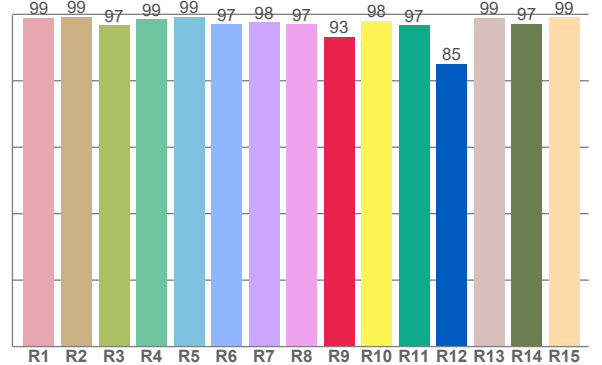




TM-30: 94,5



CRI: 98,0 (R1-R8)



CRIRA R1-R8 / CRIR R1-R15

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,0 | 99,2 | 96,7 | 98,5 | 99,3 | 97,0 | 97,6 | 97,0 | 93,3 | 98,0 | 96,7 | 85,2 | 99,0 | 97,2 | 99,2 |

TM30 valores C. 16 valores extraídos dos 99.

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,5 | 97,5 | 95,4 | 95,2 | 95,4 | 96,3 | 94,3 | 98,5 | 96,0 | 92,4 | 90,7 | 91,8 | 95,0 | 92,3 | 93,1 | 89,7 |

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 |
| 2996 K | 98,0 | 93,3 | 94,5 | 101,9 | 94,6 | 0,434 | 0,397 | 0,252 | 0,345 | -0,0023 |

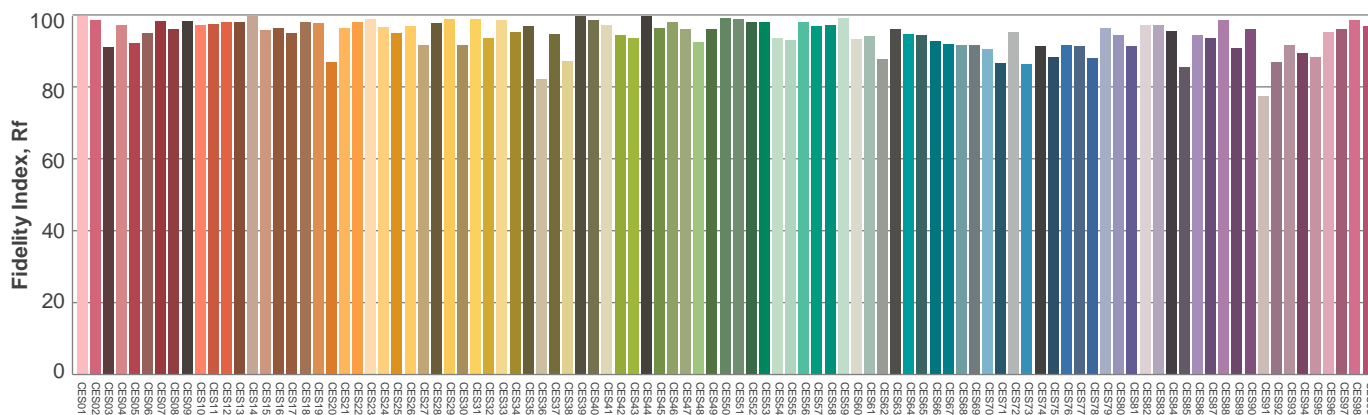
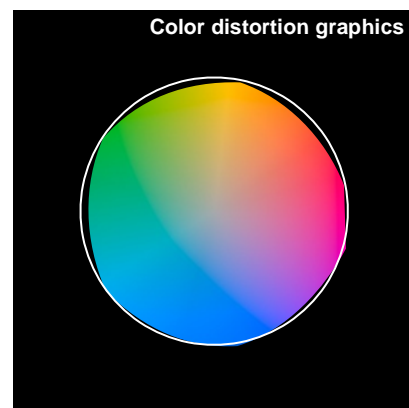
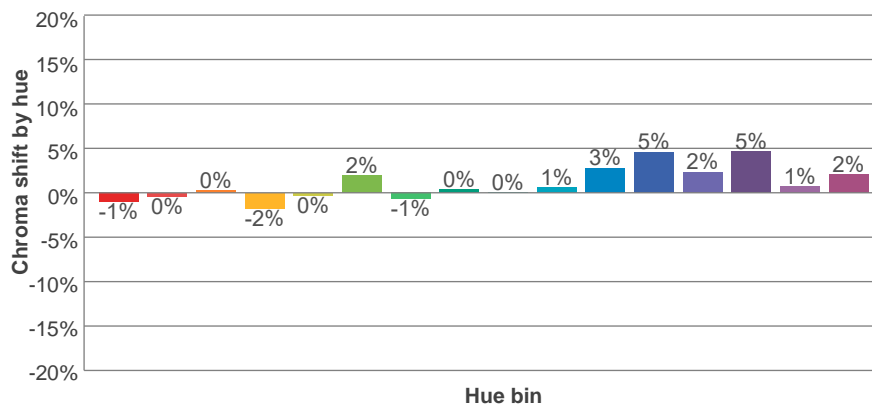
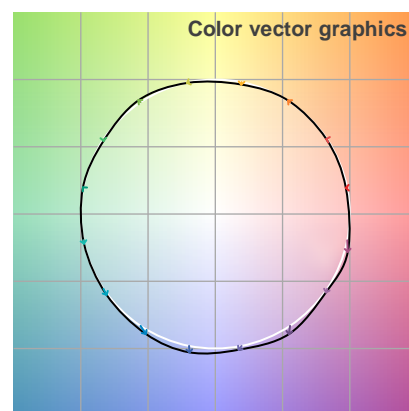
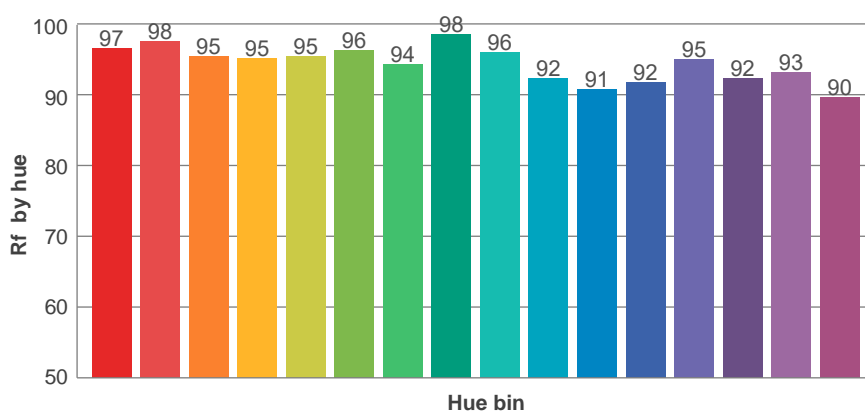
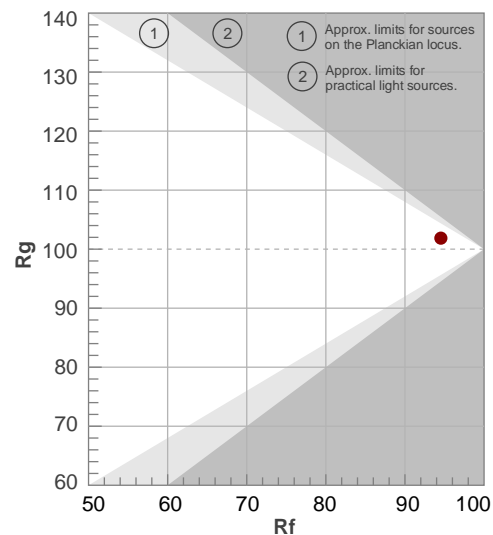
Rf 94,5

Fidelity index Rf

Rg 101,9

Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|-----|
| | | Chroma | Hue |
| 1 | 97 | -1% | 0% |
| 2 | 98 | 0% | 0% |
| 3 | 95 | 0% | 2% |
| 4 | 95 | -2% | 0% |
| 5 | 95 | 0% | 2% |
| 6 | 96 | 2% | 1% |
| 7 | 94 | -1% | 1% |
| 8 | 98 | 0% | 0% |
| 9 | 96 | 0% | 3% |
| 10 | 92 | 1% | 5% |
| 11 | 91 | 3% | 7% |
| 12 | 92 | 5% | 1% |
| 13 | 95 | 2% | -3% |
| 14 | 92 | 5% | -4% |
| 15 | 93 | 1% | -3% |
| 16 | 90 | 2% | -8% |



Avaliação todas as amostras de cores

Glare Evaluation According to UGR

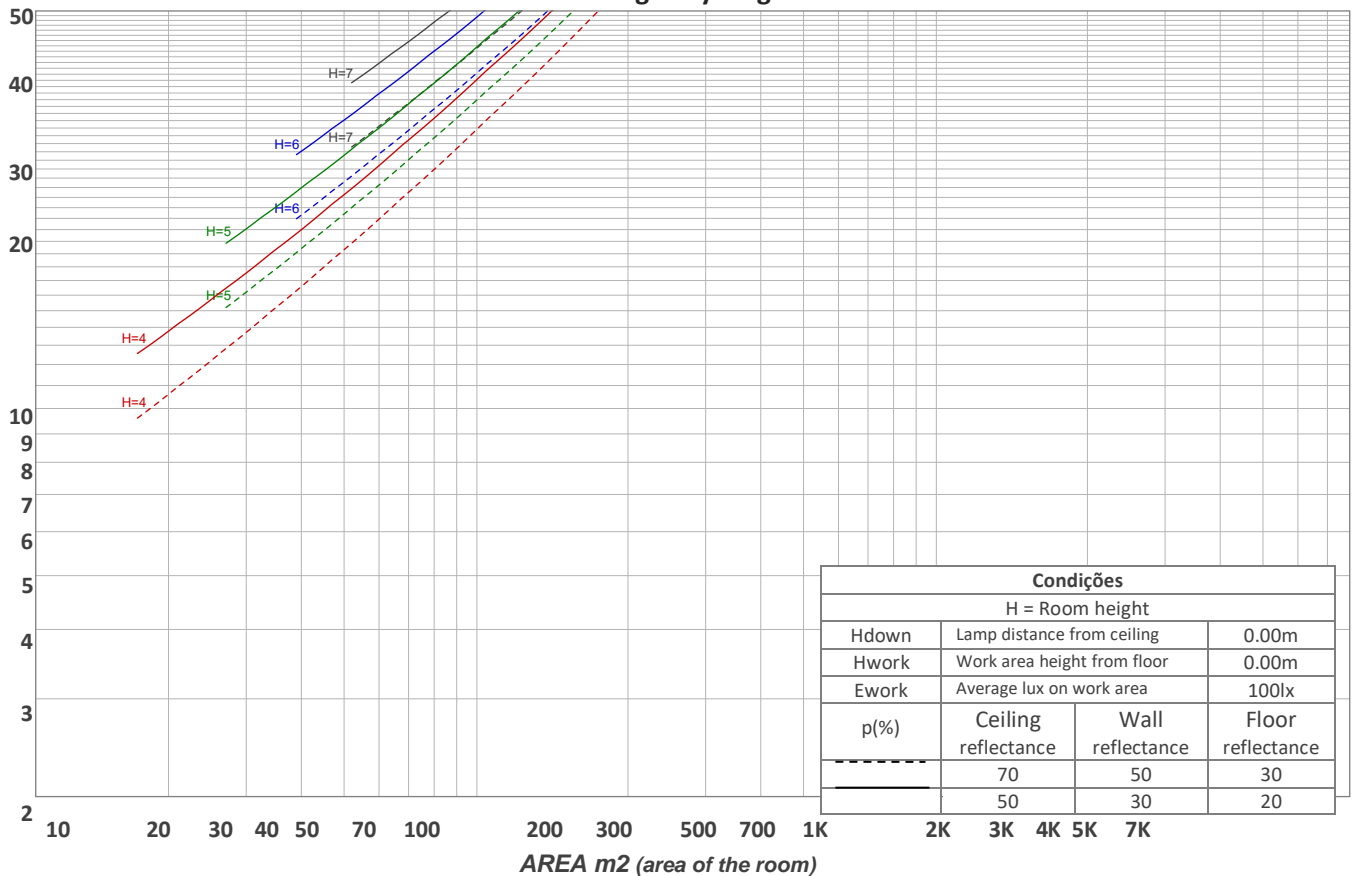
| | | | | | | | | | | | |
|---|-----|--|------|------|------|------|---|------|------|------|------|
| p Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| p Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| p Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room size X Y | | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 19,5 | 20,8 | 19,7 | 21,1 | 21,3 | 19,5 | 20,8 | 19,7 | 21,1 | 21,3 |
| | 3H | 21,2 | 22,6 | 21,7 | 22,9 | 23,1 | 21,2 | 22,6 | 21,7 | 22,9 | 23,1 |
| | 4H | 22,1 | 23,3 | 22,5 | 23,6 | 23,9 | 22,1 | 23,3 | 22,5 | 23,6 | 23,9 |
| | 6H | 22,9 | 24,0 | 23,2 | 24,3 | 24,7 | 22,9 | 24,0 | 23,2 | 24,3 | 24,7 |
| | 8H | 23,2 | 24,3 | 23,5 | 24,6 | 25,0 | 23,2 | 24,3 | 23,5 | 24,6 | 25,0 |
| | 12H | 23,5 | 24,5 | 23,8 | 24,9 | 25,3 | 23,5 | 24,5 | 23,8 | 24,9 | 25,3 |
| 4H | 2H | 20,2 | 21,4 | 20,6 | 21,7 | 22,0 | 20,2 | 21,4 | 20,6 | 21,7 | 22,0 |
| | 3H | 22,3 | 23,3 | 22,7 | 23,7 | 24,1 | 22,3 | 23,3 | 22,7 | 23,7 | 24,1 |
| | 4H | 23,2 | 24,2 | 23,6 | 24,6 | 25,1 | 23,2 | 24,2 | 23,6 | 24,6 | 25,1 |
| | 6H | 24,1 | 25,0 | 24,6 | 25,4 | 25,7 | 24,1 | 25,0 | 24,6 | 25,4 | 25,7 |
| | 8H | 24,4 | 25,3 | 25,0 | 25,7 | 26,1 | 24,4 | 25,3 | 25,0 | 25,7 | 26,1 |
| | 12H | 24,8 | 25,5 | 25,3 | 25,9 | 26,4 | 24,8 | 25,5 | 25,3 | 25,9 | 26,4 |
| 8H | 4H | 23,6 | 24,4 | 24,1 | 24,8 | 25,2 | 23,6 | 24,4 | 24,1 | 24,8 | 25,2 |
| | 6H | 24,7 | 25,3 | 25,2 | 25,8 | 26,4 | 24,7 | 25,3 | 25,2 | 25,8 | 26,4 |
| | 8H | 25,2 | 25,8 | 25,7 | 26,3 | 27,0 | 25,2 | 25,8 | 25,7 | 26,3 | 27,0 |
| | 12H | 25,7 | 26,2 | 26,3 | 26,7 | 27,3 | 25,7 | 26,2 | 26,3 | 26,7 | 27,3 |
| 12H | 4H | 23,6 | 24,3 | 24,1 | 24,8 | 25,3 | 23,6 | 24,3 | 24,1 | 24,8 | 25,3 |
| | 6H | 24,8 | 25,4 | 25,3 | 25,9 | 26,6 | 24,8 | 25,4 | 25,3 | 25,9 | 26,6 |
| | 8H | 25,4 | 25,9 | 26,0 | 26,4 | 27,0 | 25,4 | 25,9 | 26,0 | 26,4 | 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 / -0,1 | | | | | 0,1 / -0,1 | | | | |
| S = 2.0H | | 0,2 / -0,3 | | | | | 0,2 / -0,3 | | | | |
| Standard table | | n/a | | | | | n/a | | | | |
| Correction summand | | n/a | | | | | n/a | | | | |
| Corrected glare indices referring to 476 lm total luminous flux | | | | | | | | | | | |

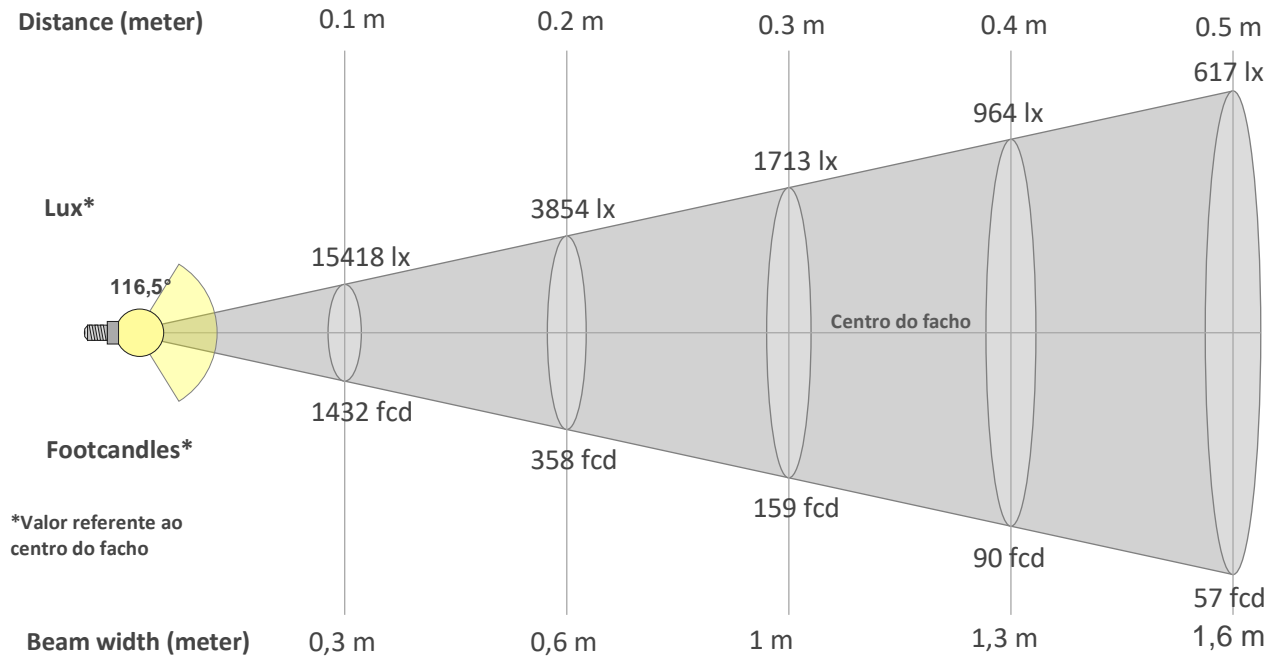
Coeficiente de utilização

| 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 | 101 | 101 | 101 | 99 |
| 1 | 107 | 102 | 97 | 93 | 105 | 100 | 95 | 92 | 95 | 92 | 89 | 91 | 88 | 86 | 87 | 85 | 83 | 81 |
| 2 | 97 | 88 | 81 | 75 | 94 | 86 | 80 | 74 | 83 | 77 | 72 | 79 | 74 | 70 | 76 | 72 | 69 | 66 |
| 3 | 88 | 77 | 69 | 62 | 86 | 76 | 68 | 61 | 72 | 66 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | 55 |
| 4 | 81 | 68 | 59 | 52 | 78 | 67 | 58 | 52 | 64 | 57 | 51 | 62 | 55 | 50 | 59 | 54 | 49 | 47 |
| 5 | 74 | 61 | 51 | 45 | 72 | 60 | 51 | 44 | 57 | 50 | 44 | 55 | 48 | 43 | 53 | 47 | 42 | 40 |
| 6 | 68 | 55 | 45 | 39 | 66 | 54 | 45 | 39 | 52 | 44 | 38 | 50 | 43 | 38 | 48 | 42 | 37 | 35 |
| 7 | 63 | 49 | 40 | 34 | 61 | 49 | 40 | 34 | 47 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 42 | 35 | 30 | 40 | 34 | 29 | 28 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 36 | 29 | 24 | 35 | 29 | 24 | 35 | 28 | 24 | 22 |

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 |
| 154lx | 39lx | 17lx | 10lx | 6lx | 4lx | 3lx | 2lx | 2lx | 2lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx | 0lx | 0lx | 0lx |
| 14,3fcd | 3,6fcd | 1,6fcd | 0,9fcd | 0,6fcd | 0,4fcd | 0,3fcd | 0,2fcd | 0,2fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0fcd | 0fcd | 0fcd | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 154 | 154 | 151 | 148 | 143 | 137 | 130 | 122 | 115 | 105 | 94 | 84 | 73 | 62 | 50 | 39 | 27 | 16 | 6 | 1 |
| 100% | 100% | 98% | 96% | 93% | 89% | 84% | 79% | 74% | 68% | 61% | 54% | 47% | 40% | 33% | 25% | 17% | 10% | 4% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 154 | 154 | 151 | 148 | 143 | 137 | 130 | 122 | 115 | 105 | 94 | 84 | 73 | 62 | 50 | 39 | 27 | 16 | 6 | 1 |
| 100% | 100% | 98% | 96% | 93% | 89% | 84% | 79% | 74% | 68% | 61% | 54% | 47% | 40% | 33% | 25% | 17% | 10% | 4% | 0% |

Intensities in 180° c-plane

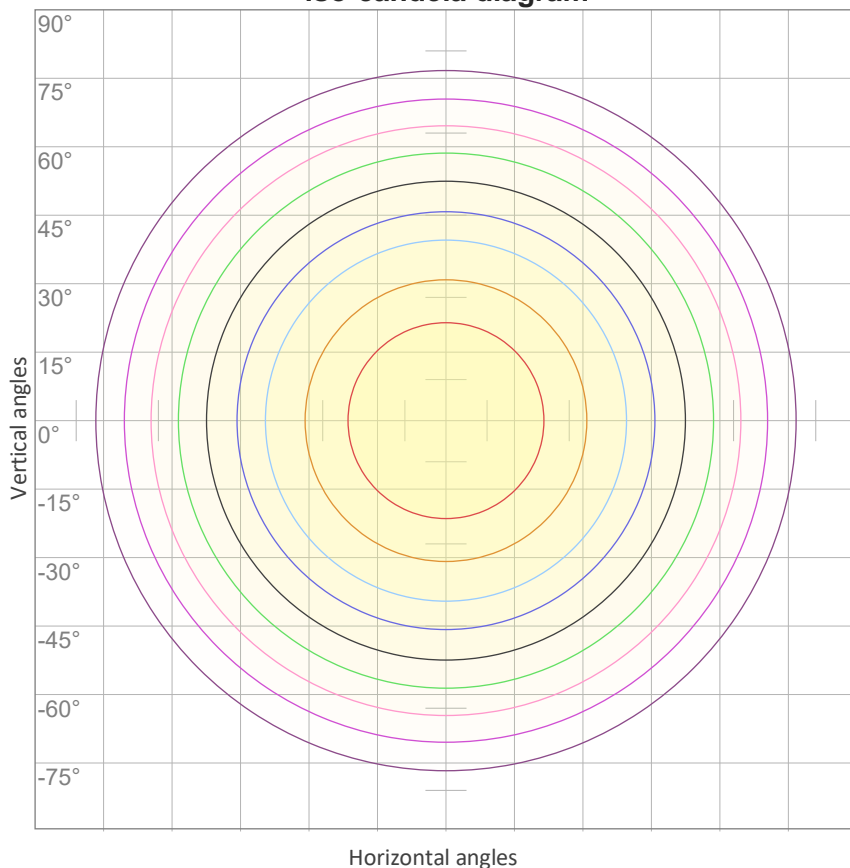
| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 154 | 154 | 151 | 148 | 143 | 137 | 130 | 122 | 115 | 105 | 94 | 84 | 73 | 62 | 50 | 39 | 27 | 16 | 6 | 1 |
| 100% | 100% | 98% | 96% | 93% | 89% | 84% | 79% | 74% | 68% | 61% | 54% | 47% | 40% | 33% | 25% | 17% | 10% | 4% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 154 | 154 | 151 | 148 | 143 | 137 | 130 | 122 | 115 | 105 | 94 | 84 | 73 | 62 | 50 | 39 | 27 | 16 | 6 | 1 |
| 100% | 100% | 98% | 96% | 93% | 89% | 84% | 79% | 74% | 68% | 61% | 54% | 47% | 40% | 33% | 25% | 17% | 10% | 4% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 116,5° | 170,4° | 183° | 74,0% | 49,8% |

iso-candela diagram



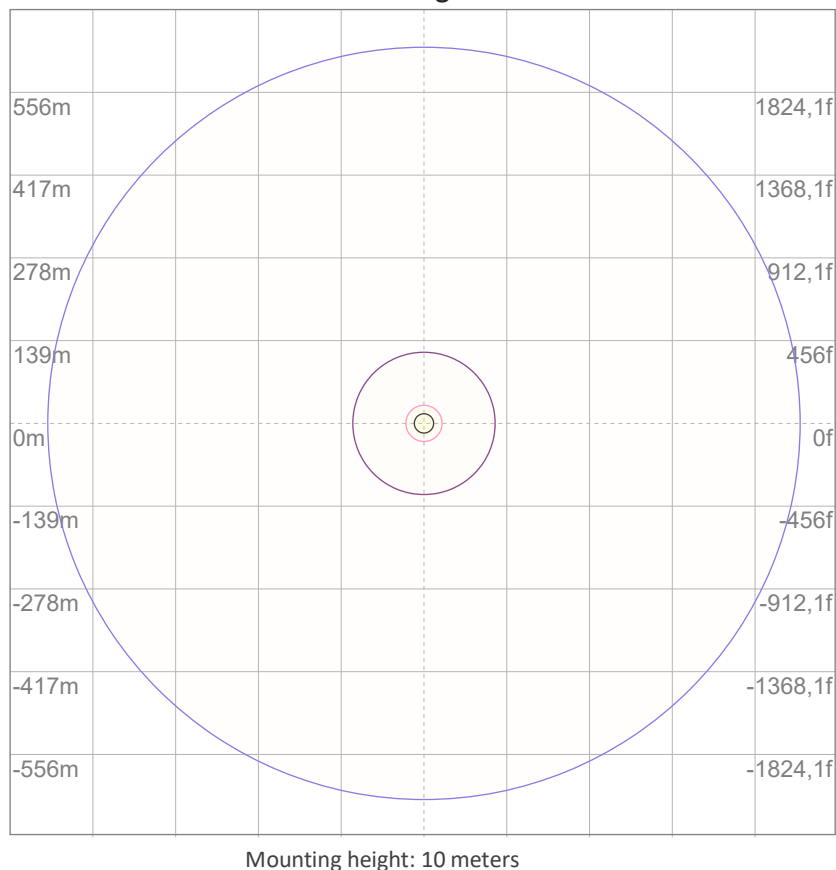
| | |
|-----|--------|
| 10% | 15 cd |
| 20% | 31 cd |
| 30% | 46 cd |
| 40% | 62 cd |
| 50% | 77 cd |
| 60% | 93 cd |
| 70% | 108 cd |
| 80% | 123 cd |
| 90% | 139 cd |

Conditions:

Number of c-planes: 16

Candela at center: 154 cd

iso-lux diagram



| | |
|-----|----------|
| 3% | 46,3m lx |
| 5% | 77,1m lx |
| 10% | 0,154 lx |
| 30% | 0,463 lx |
| 50% | 0,771 lx |

Conditions:

Number of c-planes: 16

Lux at center: 1,54 lx

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

Potência



Vttagem: 12,0 V

Corrente: 0,944 A

Frequência: 0 Hz

FP: 1,0

THD



THD corrente: n/a

THD tensão: n/a