

EX16 SLED9065 BRANCA FITA 9,6WM 5500K 80 - 1m



Luminária linear de sobrepor em mobiliário com iluminação difusa. Corpo em borracha com acabamento na cor branca. Difusor em borracha leitosa. Indicado para residência, mobiliário etc.

Fluxo luminoso – 512 lm/m

Potência – 9,6 W/m

Intensidade pico – 161cd

CCT – 4759K



IRC – 83,3

Coordenada CIE 1931 – x- 0,354 y- 0,370

A x L - 16x16

Peso - 0,26kg/m

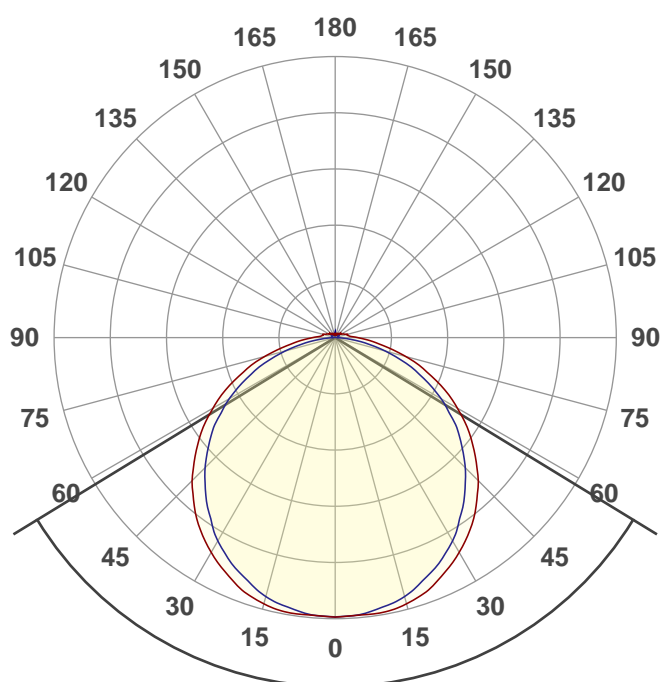
IP - 20 - Uso Interno

IK - 00 – Não aplicável

Alimentação - 12vdc

Data do ensaio

27/02/2023 09:23:11



Facho de abertura

117,1°

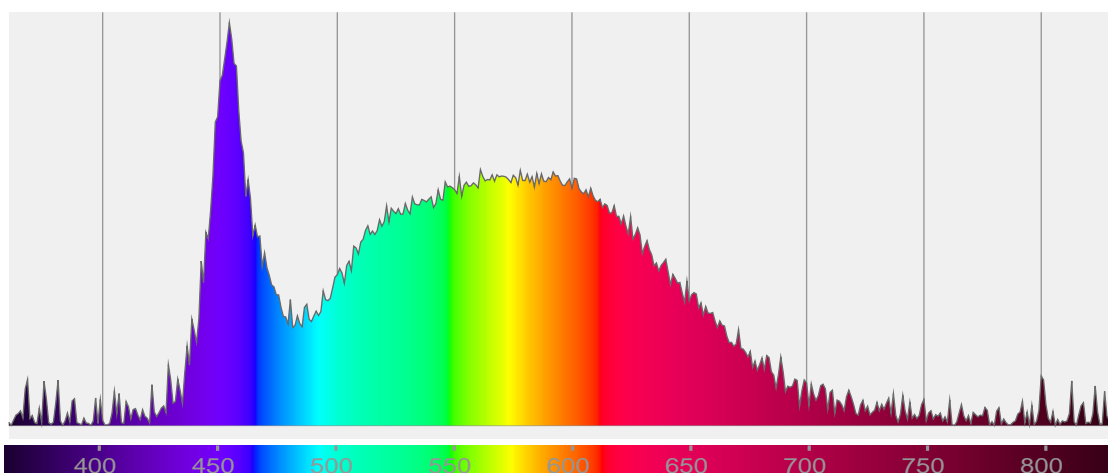
Rf 84,1

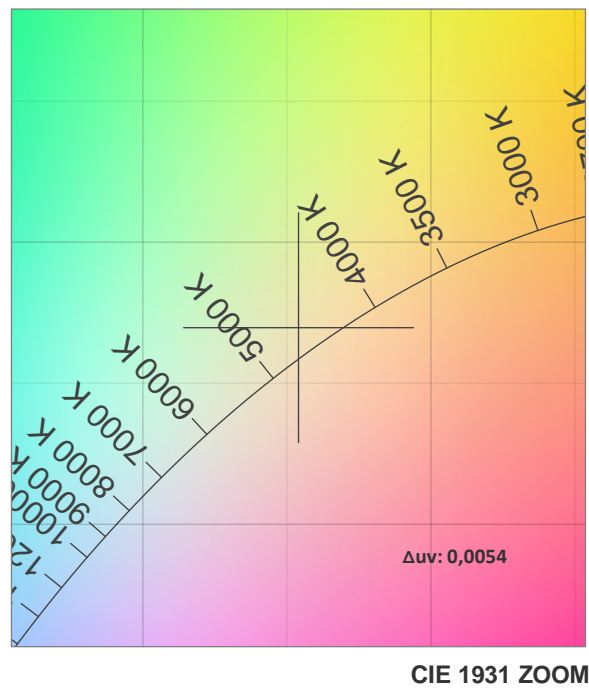
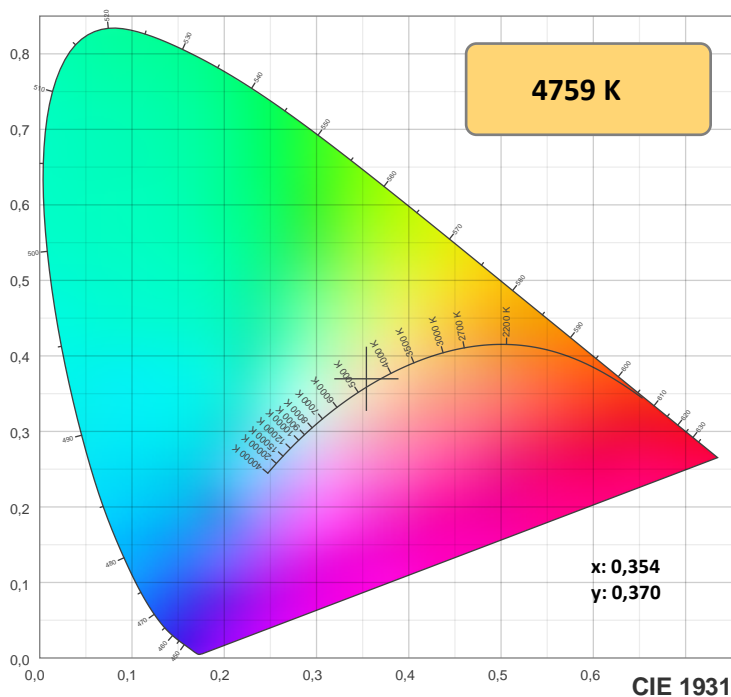
Fidelity index Rf

Rg 94,1

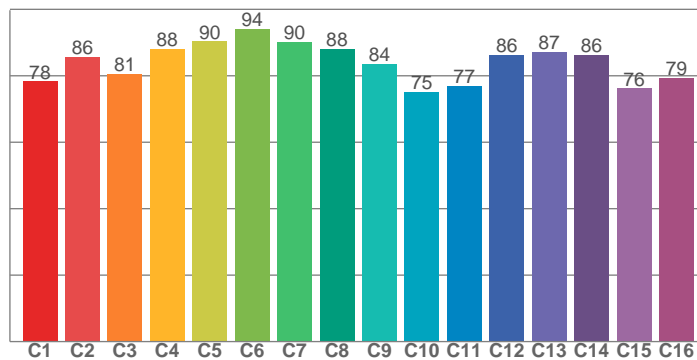
Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| 1 | 78 | -12% | 0% |
| 2 | 86 | -7% | 5% |
| 3 | 81 | -4% | 9% |
| 4 | 88 | -2% | 6% |
| 5 | 90 | -2% | 3% |
| 6 | 94 | 0% | -2% |
| 7 | 90 | -6% | -2% |
| 8 | 88 | -7% | 1% |
| 9 | 84 | -8% | 9% |
| 10 | 75 | -5% | 15% |
| 11 | 77 | 3% | 15% |
| 12 | 86 | 5% | 5% |
| 13 | 87 | 7% | -7% |
| 14 | 86 | 2% | -7% |
| 15 | 76 | 3% | -20% |
| 16 | 79 | -7% | -10% |

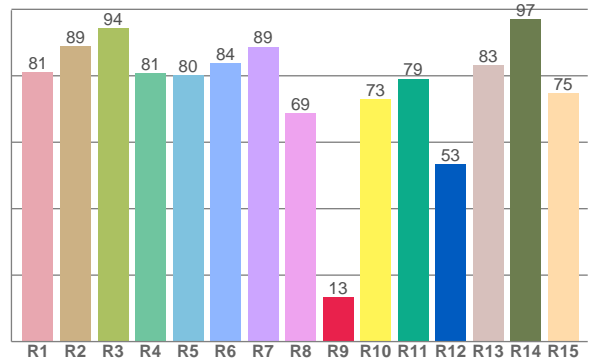




TM-30: 84,1



CRI: 83,3 (R1-R8)



CRIRA R1-R8 / CRIR R1-R15

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81,0 | 88,9 | 94,3 | 80,8 | 80,1 | 83,7 | 88,7 | 68,6 | 13,3 | 73,0 | 79,1 | 53,5 | 83,2 | 97,0 | 74,8 |

TM30 valores C. 16 valores extraídos dos 99.

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78,4 | 85,7 | 80,6 | 88,0 | 90,3 | 94,1 | 90,2 | 88,0 | 83,6 | 75,1 | 77,0 | 86,3 | 87,2 | 86,3 | 76,2 | 79,4 |

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 |
| 4759 K | 83,3 | 13,3 | 84,1 | 94,1 | 82,8 | 0,354 | 0,370 | 0,210 | 0,330 | 0,0054 |

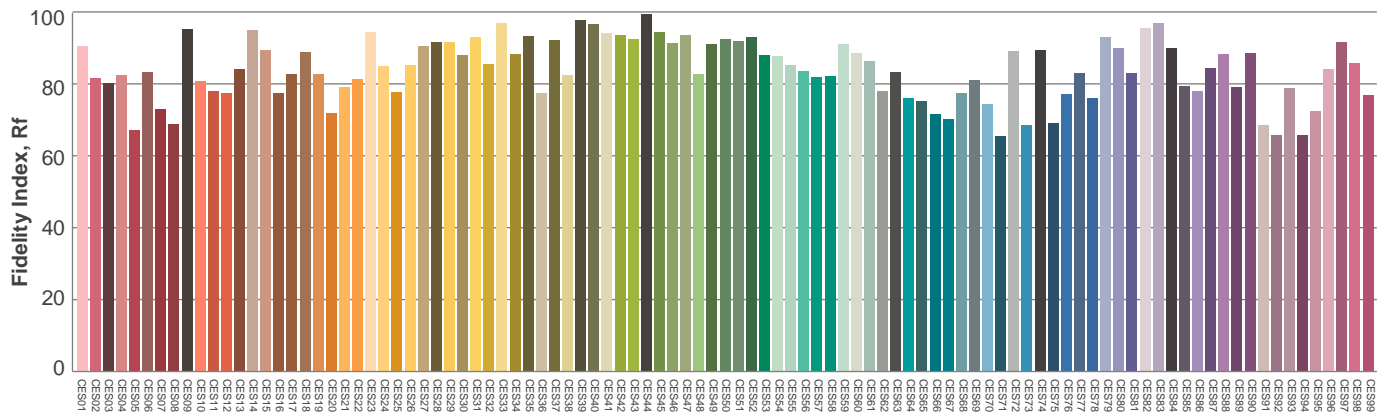
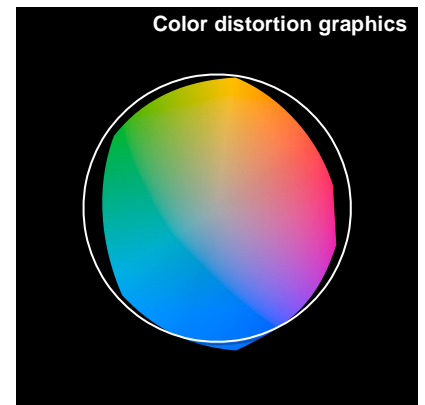
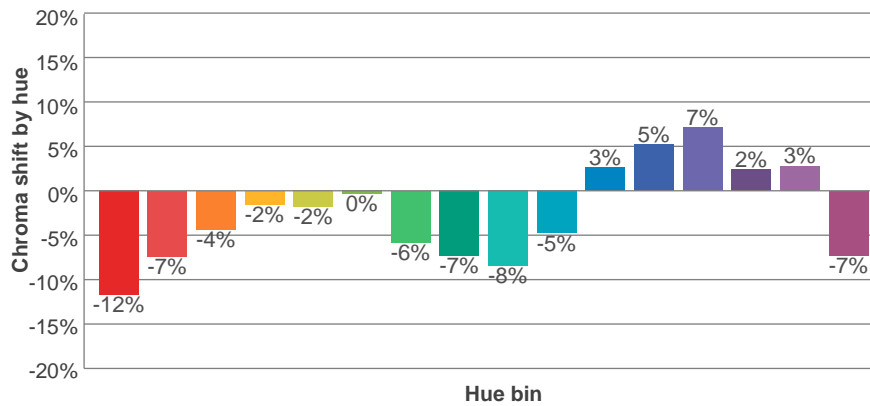
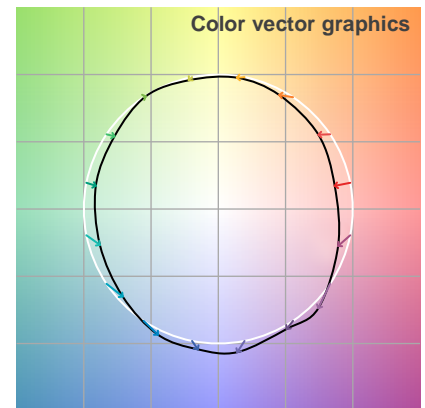
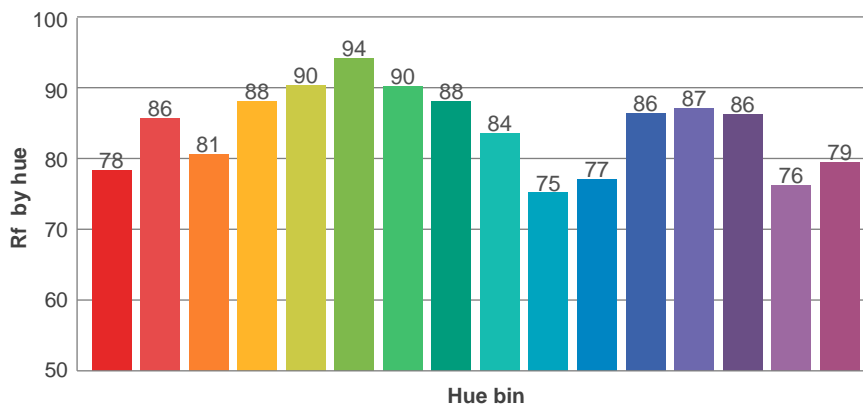
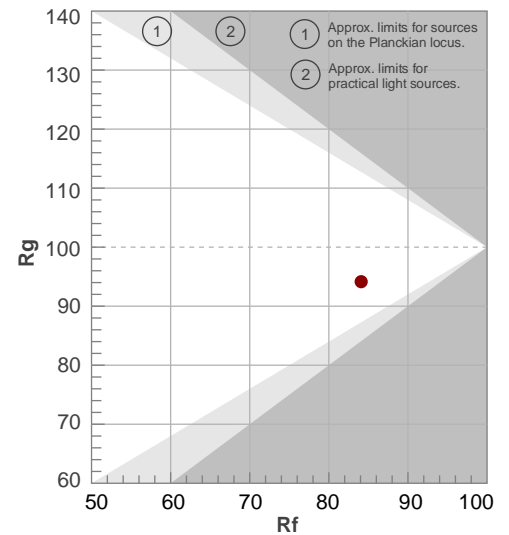
Rf 84,1

Fidelity index Rf

Rg 94,1

Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| 1 | 78 | -12% | 0% |
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| 8 | 88 | -7% | 1% |
| 9 | 84 | -8% | 9% |
| 10 | 75 | -5% | 15% |
| 11 | 77 | 3% | 15% |
| 12 | 86 | 5% | 5% |
| 13 | 87 | 7% | -7% |
| 14 | 86 | 2% | -7% |
| 15 | 76 | 3% | -20% |
| 16 | 79 | -7% | -10% |



Glare Evaluation According to UGR

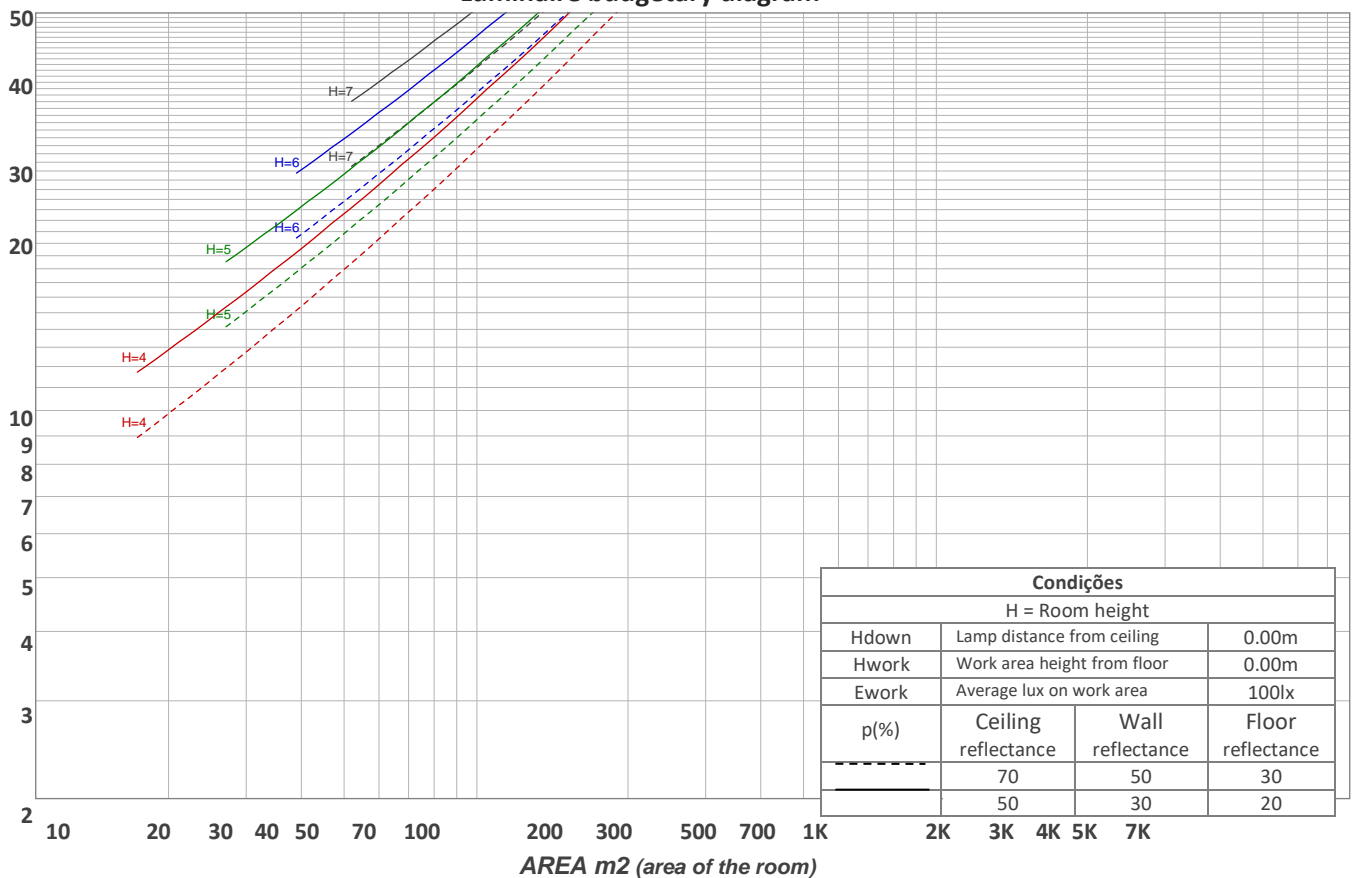
| | | | | | | | | | | | |
|---|-----|--|------|------|------|------|---|------|------|------|------|
| p Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| p Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| p Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room size X Y | | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 20,6 | 21,8 | 20,9 | 22,2 | 22,5 | 20,0 | 21,2 | 20,3 | 21,6 | 21,9 |
| | 3H | 22,3 | 23,5 | 22,8 | 23,9 | 24,2 | 21,4 | 22,7 | 21,9 | 23,0 | 23,3 |
| | 4H | 23,1 | 24,3 | 23,6 | 24,6 | 25,0 | 22,0 | 23,2 | 22,5 | 23,6 | 23,9 |
| | 6H | 23,9 | 24,9 | 24,3 | 25,3 | 25,7 | 22,5 | 23,5 | 22,9 | 23,9 | 24,3 |
| | 8H | 24,2 | 25,2 | 24,6 | 25,6 | 26,1 | 22,6 | 23,6 | 23,0 | 24,0 | 24,5 |
| | 12H | 24,5 | 25,5 | 25,0 | 25,9 | 26,4 | 22,6 | 23,7 | 23,1 | 24,0 | 24,6 |
| 4H | 2H | 21,2 | 22,3 | 21,6 | 22,7 | 23,0 | 20,7 | 21,9 | 21,2 | 22,2 | 22,6 |
| | 3H | 23,2 | 24,2 | 23,6 | 24,6 | 25,1 | 22,5 | 23,5 | 22,9 | 23,9 | 24,4 |
| | 4H | 24,1 | 25,0 | 24,6 | 25,5 | 26,1 | 23,1 | 24,1 | 23,6 | 24,5 | 25,1 |
| | 6H | 24,9 | 25,8 | 25,5 | 26,2 | 26,7 | 23,6 | 24,5 | 24,2 | 24,9 | 25,4 |
| | 8H | 25,4 | 26,1 | 25,9 | 26,6 | 27,0 | 23,8 | 24,6 | 24,4 | 25,0 | 25,5 |
| | 12H | 25,8 | 26,4 | 26,3 | 26,9 | 27,5 | 23,9 | 24,5 | 24,4 | 25,0 | 25,6 |
| 8H | 4H | 24,4 | 25,2 | 24,9 | 25,6 | 26,1 | 23,5 | 24,3 | 24,1 | 24,8 | 25,2 |
| | 6H | 25,4 | 26,0 | 26,0 | 26,6 | 27,2 | 24,2 | 24,8 | 24,8 | 25,4 | 26,0 |
| | 8H | 26,0 | 26,5 | 26,6 | 27,1 | 27,8 | 24,5 | 25,0 | 25,1 | 25,6 | 26,3 |
| | 12H | 26,6 | 27,0 | 27,2 | 27,6 | 28,3 | 24,7 | 25,1 | 25,3 | 25,7 | 26,3 |
| 12H | 4H | 24,4 | 25,0 | 24,9 | 25,5 | 26,1 | 23,6 | 24,2 | 24,1 | 24,7 | 25,3 |
| | 6H | 25,5 | 26,0 | 26,1 | 26,6 | 27,3 | 24,4 | 24,9 | 24,9 | 25,5 | 26,2 |
| | 8H | 26,1 | 26,6 | 26,7 | 27,1 | 27,8 | 24,7 | 25,1 | 25,3 | 25,7 | 26,4 |
| 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 / -0,2 | | | | |
| S = 2.0H | | 0,3 / -0,3 | | | | | 0,4 / -0,5 | | | | |
| Standard table | | n/a | | | | | n/a | | | | |
| Correction summand | | n/a | | | | | n/a | | | | |
| Corrected glare indices referring to 512 lm total luminous flux | | | | | | | | | | | |

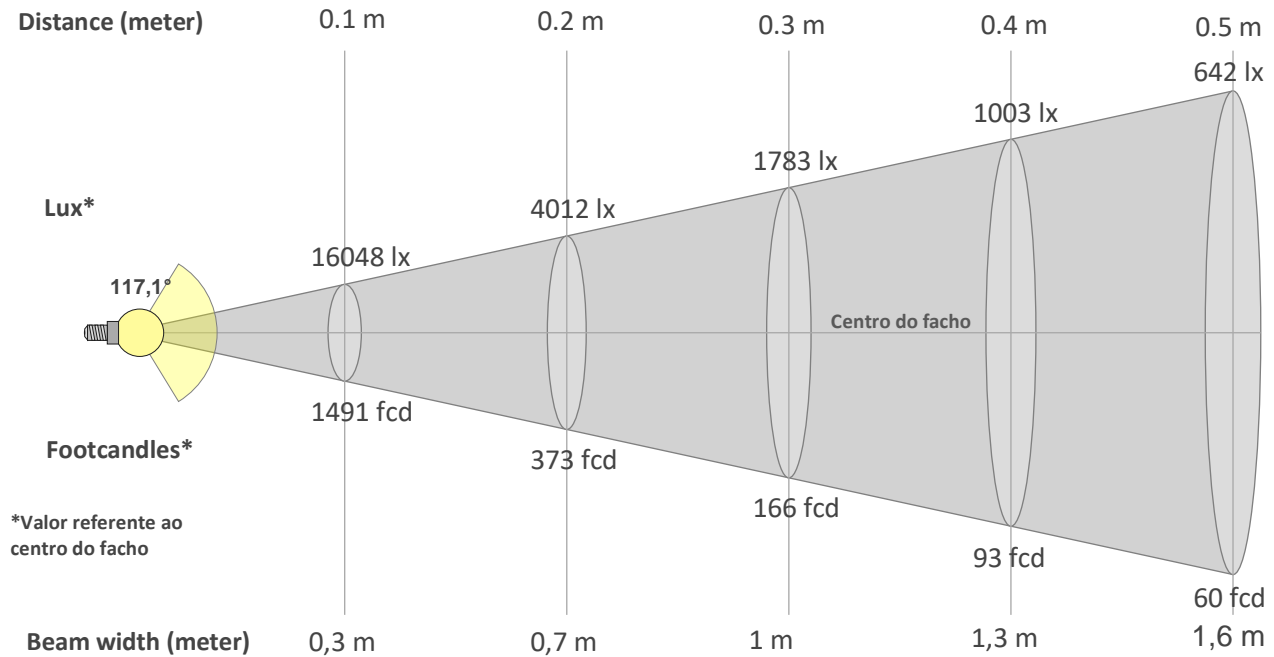
Coeficiente de utilização

| 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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 96 |
| 1 | 107 | 102 | 98 | 93 | 104 | 99 | 95 | 91 | 94 | 91 | 88 | 90 | 87 | 84 | 85 | 83 | 81 | 79 |
| 2 | 97 | 88 | 81 | 75 | 94 | 86 | 80 | 74 | 82 | 77 | 72 | 78 | 73 | 70 | 74 | 71 | 67 | 65 |
| 3 | 88 | 77 | 69 | 62 | 85 | 75 | 68 | 61 | 72 | 65 | 60 | 69 | 63 | 58 | 65 | 61 | 57 | 54 |
| 4 | 81 | 68 | 59 | 53 | 78 | 67 | 58 | 52 | 64 | 56 | 51 | 61 | 55 | 50 | 58 | 53 | 48 | 46 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 57 | 49 | 44 | 54 | 48 | 43 | 52 | 47 | 42 | 40 |
| 6 | 68 | 55 | 46 | 39 | 66 | 54 | 45 | 39 | 51 | 44 | 38 | 49 | 43 | 37 | 47 | 41 | 37 | 35 |
| 7 | 63 | 50 | 41 | 34 | 61 | 49 | 40 | 34 | 47 | 39 | 34 | 45 | 38 | 33 | 43 | 37 | 33 | 30 |
| 8 | 59 | 45 | 37 | 31 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 41 | 33 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 36 | 31 | 26 | 24 |
| 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 25 | 36 | 29 | 24 | 35 | 29 | 24 | 34 | 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 |
| 160lx | 40lx | 18lx | 10lx | 6lx | 4lx | 3lx | 3lx | 2lx | 2lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx | 0lx | 0lx | 0lx |
| 14,9fcd | 3,7fcd | 1,7fcd | 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 | 0,1fcd | 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° |
|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 160 | 160 | 160 | 158 | 155 | 149 | 142 | 135 | 126 | 116 | 105 | 93 | 81 | 68 | 55 | 42 | 29 | 20 | 13 | 9 |
| 100% | 100% | 100% | 99% | 96% | 93% | 89% | 84% | 78% | 72% | 65% | 58% | 50% | 43% | 34% | 26% | 18% | 13% | 8% | 5% |

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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 160 | 160 | 157 | 154 | 148 | 142 | 135 | 125 | 116 | 106 | 94 | 83 | 70 | 57 | 43 | 30 | 17 | 6 | 1 | 1 |
| 100% | 99% | 98% | 96% | 92% | 89% | 84% | 78% | 72% | 66% | 59% | 52% | 44% | 35% | 27% | 18% | 11% | 4% | 1% | 1% |

Intensities in 180° c-plane

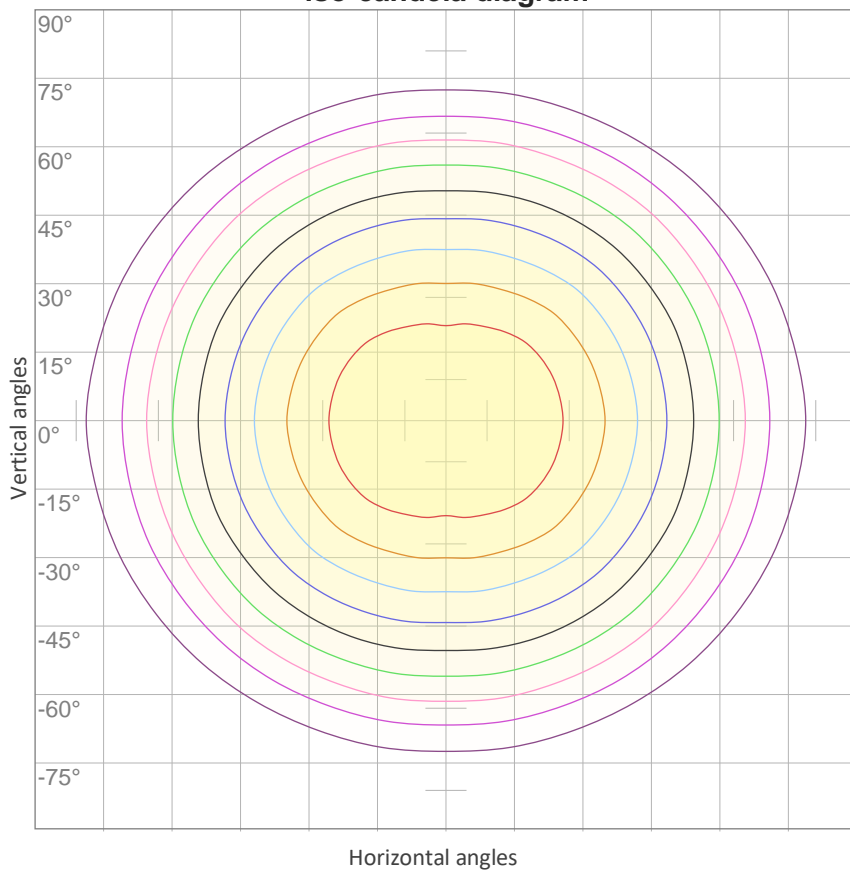
| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 160 | 160 | 160 | 158 | 155 | 149 | 142 | 135 | 126 | 116 | 105 | 93 | 81 | 68 | 55 | 42 | 29 | 20 | 13 | 9 |
| 100% | 100% | 100% | 99% | 96% | 93% | 89% | 84% | 78% | 72% | 65% | 58% | 50% | 43% | 34% | 26% | 18% | 13% | 8% | 5% |

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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 160 | 160 | 157 | 154 | 148 | 142 | 135 | 125 | 116 | 106 | 94 | 83 | 70 | 57 | 43 | 30 | 17 | 6 | 1 | 1 |
| 100% | 99% | 98% | 96% | 92% | 89% | 84% | 78% | 72% | 66% | 59% | 52% | 44% | 35% | 27% | 18% | 11% | 4% | 1% | 1% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 117,1° | 167,7° | 204,6° | 73,0% | 49,1% |

iso-candela diagram



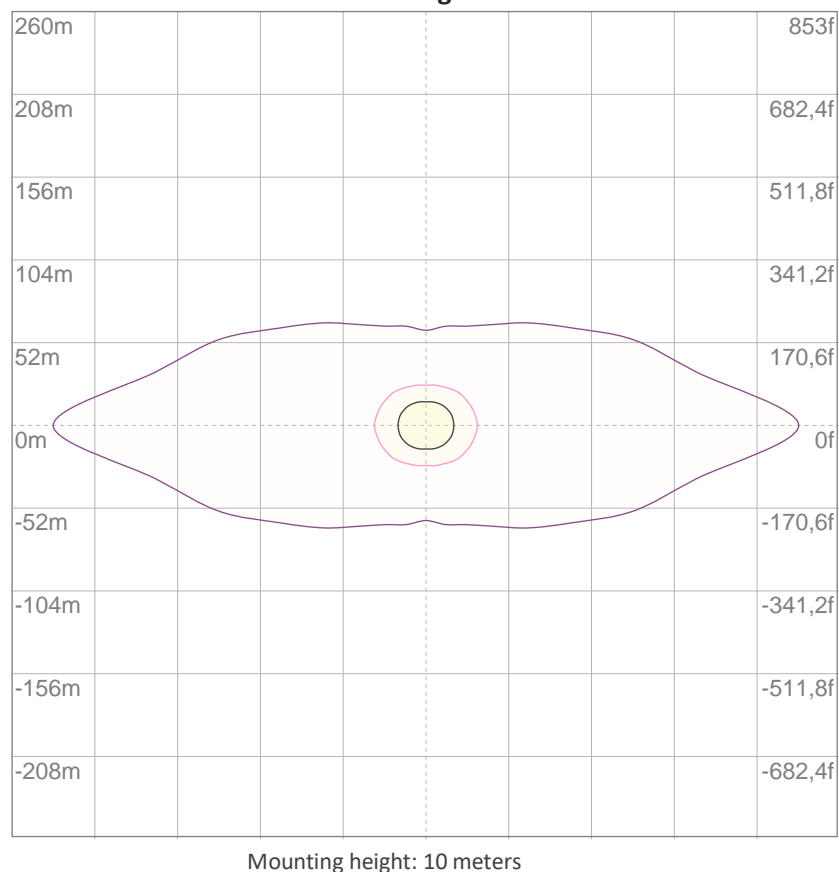
| | |
|-----|--------|
| 10% | 16 cd |
| 20% | 32 cd |
| 30% | 48 cd |
| 40% | 64 cd |
| 50% | 80 cd |
| 60% | 96 cd |
| 70% | 112 cd |
| 80% | 128 cd |
| 90% | 144 cd |

Conditions:

Number of c-planes: 16

Candela at center: 160 cd

iso-lux diagram



| | |
|-----|----------|
| 3% | 48,1m lx |
| 5% | 80,2m lx |
| 10% | 0,160 lx |
| 30% | 0,481 lx |
| 50% | 0,802 lx |

Conditions:

Number of c-planes: 16

Lux at center: 1,60 lx

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

Potência

| | | | | | |
|--|--|--|--|--|--|
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| | | | | | |
| | | | | | |

Vttagem: 12,0 V

Corrente: 0,800 A

Frequência: 0 Hz

FP: 0,99

THD



THD corrente: n/a

THD tensão: n/a