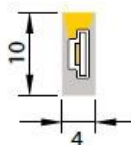


EX04 SLED9162 BRANCA FITA 7,2WM 4000K 80 - 1m



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 – 240 lm/m

Potência – 8,2 W/m

Intensidade pico – 79,3cd

CCT – 3440K



IRC – 83,4

Coordenada CIE 1931 – x- 0,409 y- 0,393

A x L - 10x4

Peso - 0,26kg/m

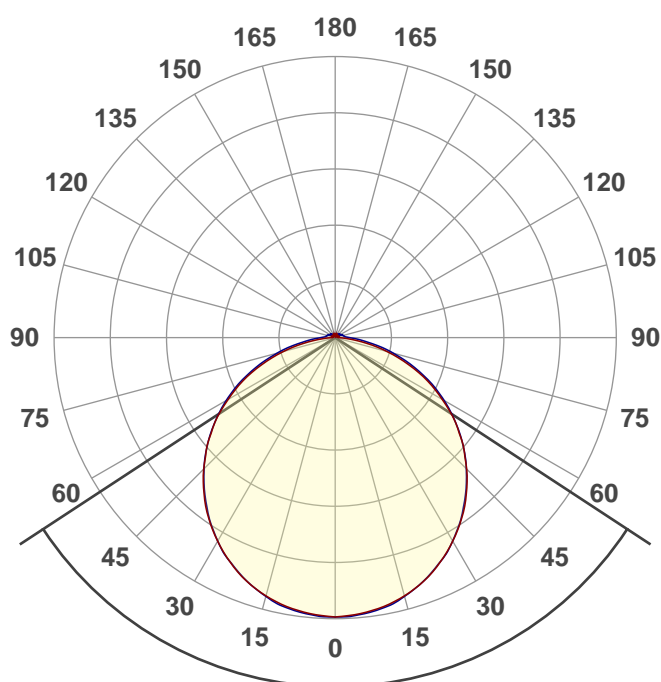
IP - 20 - Uso Interno

IK - 00 – Não aplicável

Alimentação - 12vdc

Data do ensaio

16/02/2021 10:48:56



Facho de abertura

113,5°

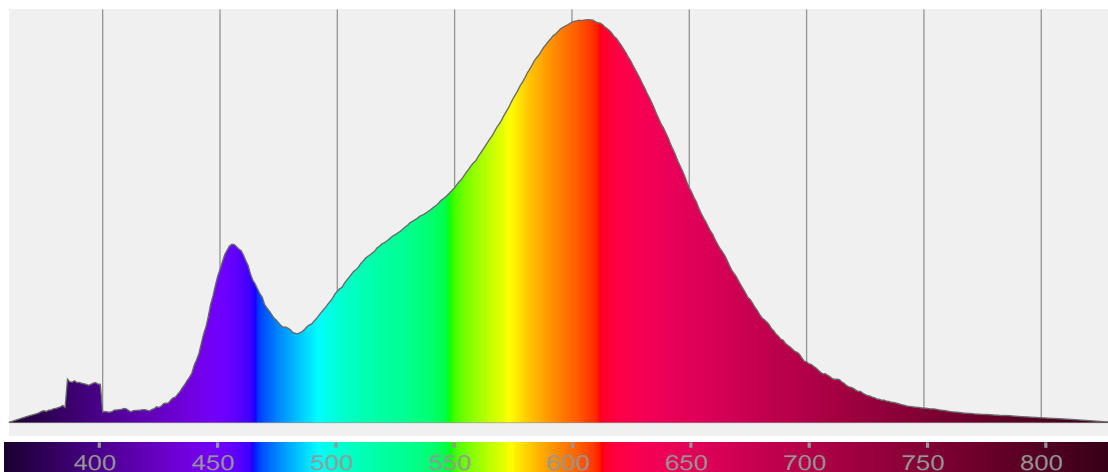
Rf 85,5

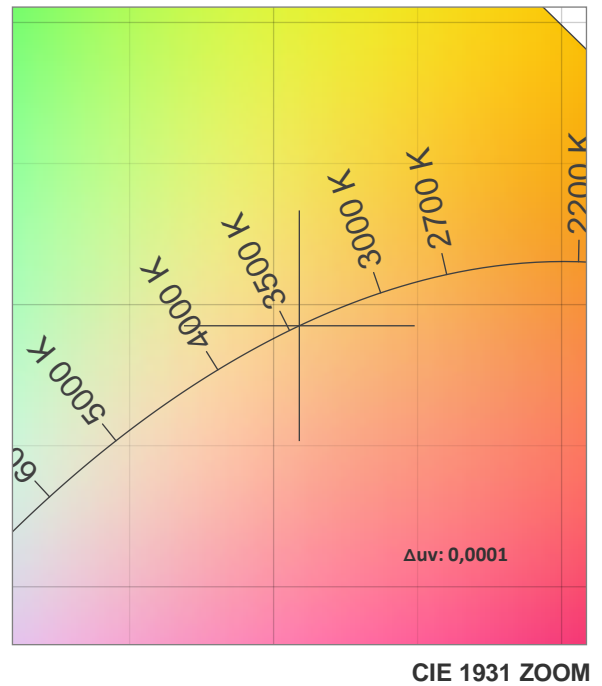
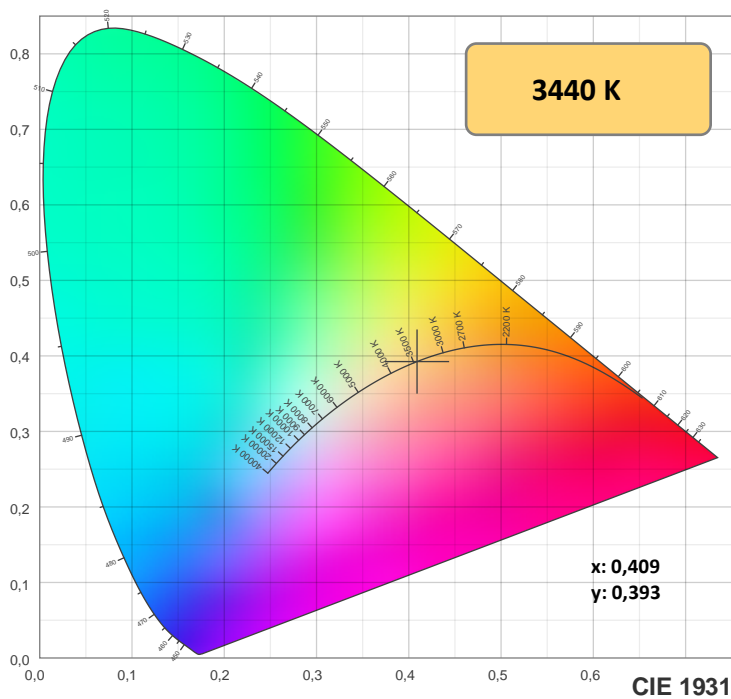
Fidelity index Rf

Rg 94,2

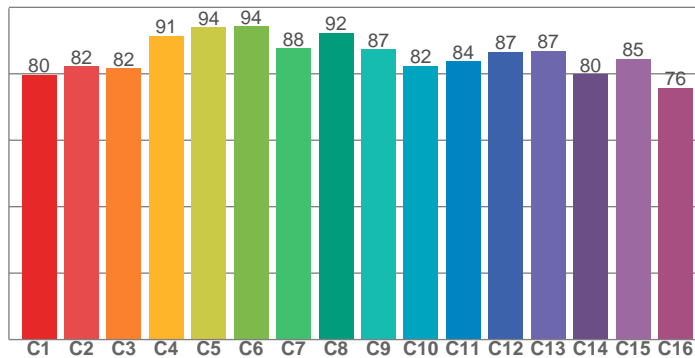
Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| 1 | 80 | -11% | 1% |
| 2 | 82 | -8% | 6% |
| 3 | 82 | -3% | 9% |
| 4 | 91 | -2% | 3% |
| 5 | 94 | -1% | 2% |
| 6 | 94 | 0% | -2% |
| 7 | 88 | -7% | -4% |
| 8 | 92 | -4% | 1% |
| 9 | 87 | -5% | 6% |
| 10 | 82 | -3% | 11% |
| 11 | 84 | 2% | 12% |
| 12 | 87 | 6% | 1% |
| 13 | 87 | 3% | -9% |
| 14 | 80 | 3% | -16% |
| 15 | 85 | -5% | -8% |
| 16 | 76 | -10% | -16% |

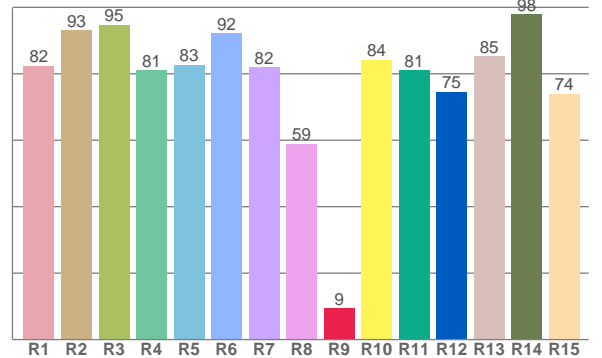




TM-30: 85,5



CRI: 83,4 (R1-R8)



CRIRA R1-R8 / CRIR R1-R15

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 82,4 | 93,0 | 94,7 | 81,1 | 82,7 | 92,3 | 81,9 | 59,0 | 9,3 | 84,2 | 81,0 | 74,6 | 85,2 | 97,8 | 73,9 |

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 | 82,3 | 81,6 | 91,3 | 94,0 | 94,3 | 87,7 | 92,3 | 87,3 | 82,4 | 83,7 | 86,7 | 86,9 | 79,9 | 84,5 | 75,8 |

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 |
| 3440 K | 83,4 | 9,3 | 85,5 | 94,2 | 83,0 | 0,409 | 0,393 | 0,253 | 0,348 | 0,0001 |

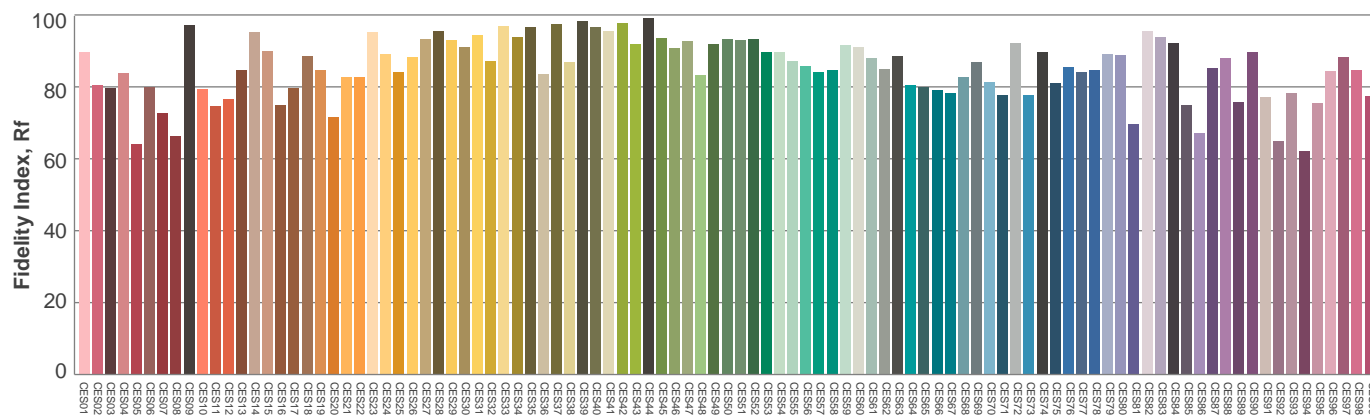
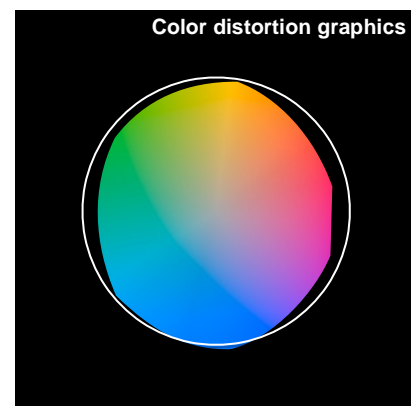
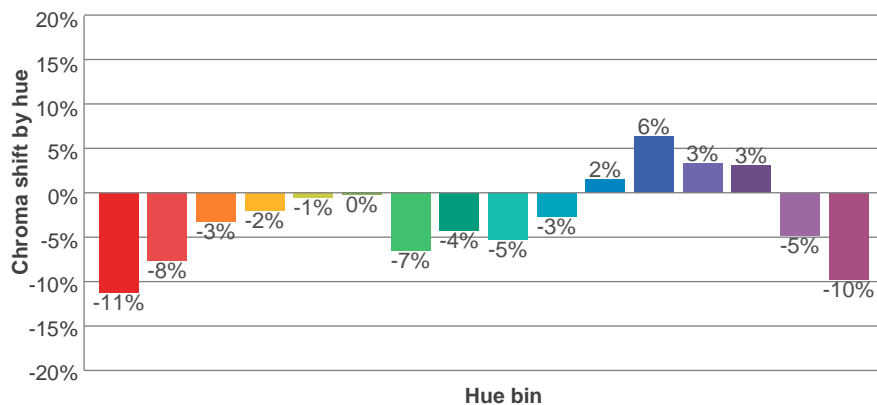
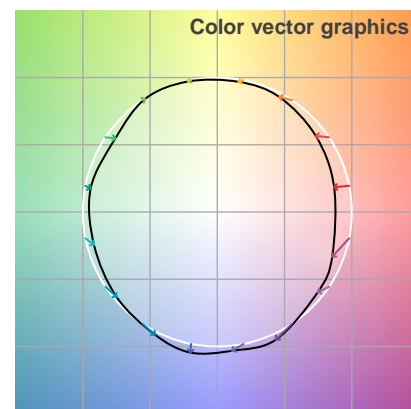
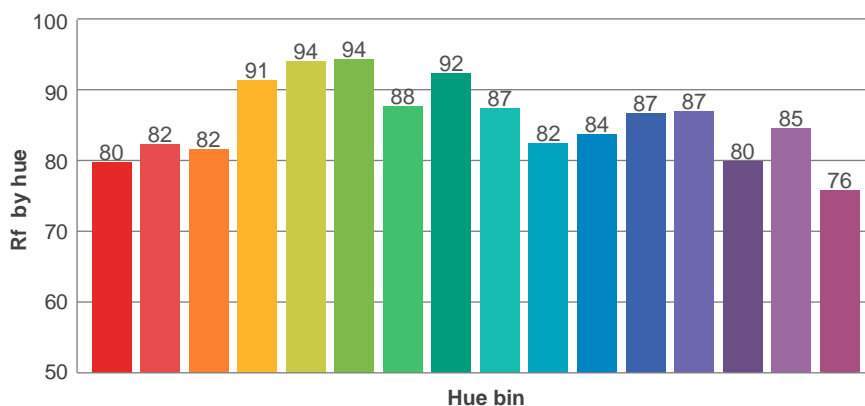
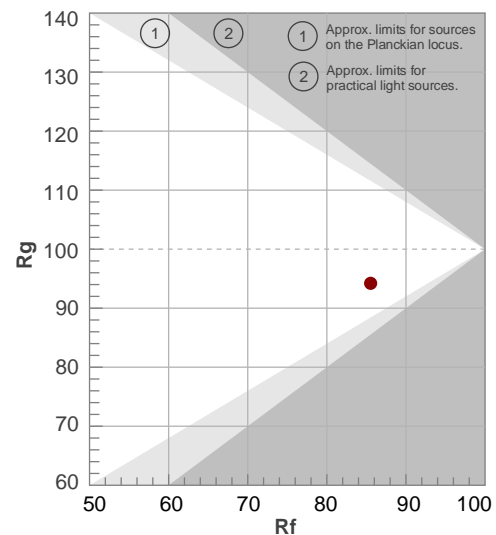
Rf 85,5

Fidelity index Rf

Rg 94,2

Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| 1 | 80 | -11% | 1% |
| 2 | 82 | -8% | 6% |
| 3 | 82 | -3% | 9% |
| 4 | 91 | -2% | 3% |
| 5 | 94 | -1% | 2% |
| 6 | 94 | 0% | -2% |
| 7 | 88 | -7% | -4% |
| 8 | 92 | -4% | 1% |
| 9 | 87 | -5% | 6% |
| 10 | 82 | -3% | 11% |
| 11 | 84 | 2% | 12% |
| 12 | 87 | 6% | 1% |
| 13 | 87 | 3% | -9% |
| 14 | 80 | 3% | -16% |
| 15 | 85 | -5% | -8% |
| 16 | 76 | -10% | -16% |



Avaliação todas as amostras de cores

Glare Evaluation According to UGR

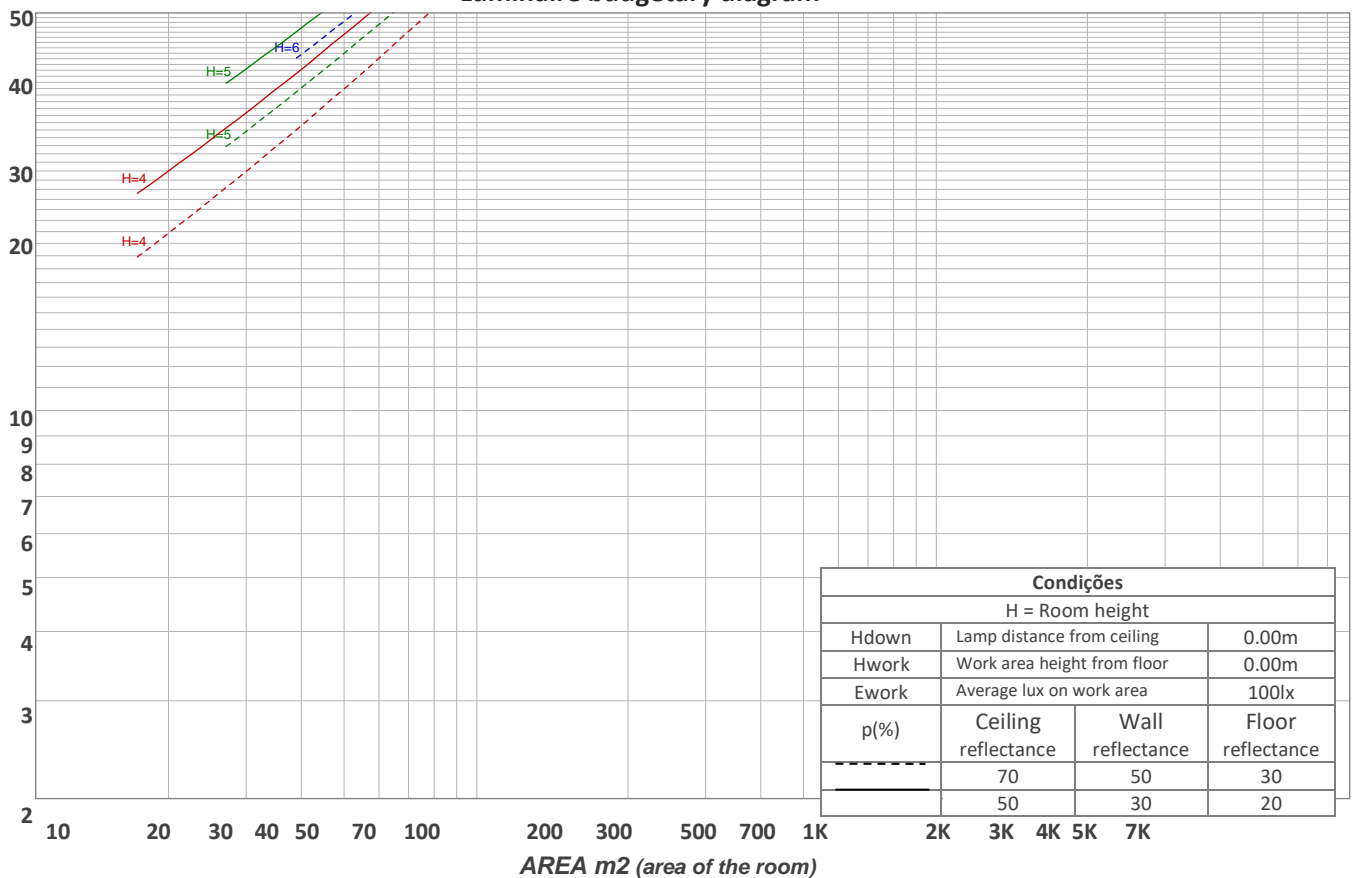
| | | | | | | | | | | | |
|---|-----|--|------|------|------|------|---|------|------|------|------|
| p Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| p Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| p Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room size X Y | | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 22,5 | 23,7 | 22,8 | 24,0 | 24,3 | 22,5 | 23,7 | 22,8 | 24,1 | 24,4 |
| | 3H | 24,0 | 25,2 | 24,4 | 25,6 | 25,8 | 24,1 | 25,3 | 24,6 | 25,7 | 26,0 |
| | 4H | 24,6 | 25,8 | 25,1 | 26,1 | 26,5 | 24,8 | 26,0 | 25,3 | 26,3 | 26,7 |
| | 6H | 25,1 | 26,1 | 25,5 | 26,5 | 26,9 | 25,5 | 26,5 | 25,9 | 26,9 | 27,3 |
| | 8H | 25,2 | 26,2 | 25,6 | 26,6 | 27,1 | 25,7 | 26,8 | 26,1 | 27,1 | 27,6 |
| | 12H | 25,3 | 26,3 | 25,7 | 26,7 | 27,2 | 26,0 | 27,0 | 26,4 | 27,3 | 27,8 |
| 4H | 2H | 23,1 | 24,3 | 23,6 | 24,6 | 25,0 | 23,1 | 24,3 | 23,6 | 24,7 | 25,0 |
| | 3H | 24,9 | 25,9 | 25,4 | 26,3 | 26,8 | 25,1 | 26,0 | 25,5 | 26,4 | 26,9 |
| | 4H | 25,6 | 26,6 | 26,1 | 27,0 | 27,6 | 25,8 | 26,8 | 26,3 | 27,2 | 27,8 |
| | 6H | 26,2 | 27,0 | 26,7 | 27,5 | 27,9 | 26,6 | 27,4 | 27,1 | 27,9 | 28,3 |
| | 8H | 26,4 | 27,1 | 26,9 | 27,6 | 28,0 | 26,9 | 27,7 | 27,4 | 28,1 | 28,5 |
| | 12H | 26,5 | 27,1 | 27,0 | 27,6 | 28,1 | 27,2 | 27,8 | 27,7 | 28,3 | 28,9 |
| 8H | 4H | 26,0 | 26,7 | 26,5 | 27,2 | 27,6 | 26,1 | 26,9 | 26,7 | 27,4 | 27,8 |
| | 6H | 26,7 | 27,3 | 27,2 | 27,8 | 28,4 | 27,1 | 27,7 | 27,6 | 28,2 | 28,8 |
| | 8H | 27,0 | 27,5 | 27,5 | 28,1 | 28,8 | 27,5 | 28,0 | 28,1 | 28,6 | 29,3 |
| | 12H | 27,2 | 27,6 | 27,8 | 28,2 | 28,8 | 28,0 | 28,4 | 28,6 | 29,0 | 29,6 |
| 12H | 4H | 26,0 | 26,6 | 26,5 | 27,1 | 27,7 | 26,2 | 26,8 | 26,7 | 27,3 | 27,8 |
| | 6H | 26,8 | 27,3 | 27,4 | 27,9 | 28,6 | 27,2 | 27,7 | 27,7 | 28,3 | 29,0 |
| | 8H | 27,1 | 27,6 | 27,7 | 28,1 | 28,8 | 27,6 | 28,1 | 28,3 | 28,6 | 29,3 |
| 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 / -0,2 | | | | | 0,1 / -0,2 | | | | |
| S = 2.0H | | 0,4 / -0,5 | | | | | 0,3 / -0,4 | | | | |
| Standard table | | n/a | | | | | n/a | | | | |
| Correction summand | | n/a | | | | | n/a | | | | |
| Corrected glare indices referring to 240 lm total luminous flux | | | | | | | | | | | |

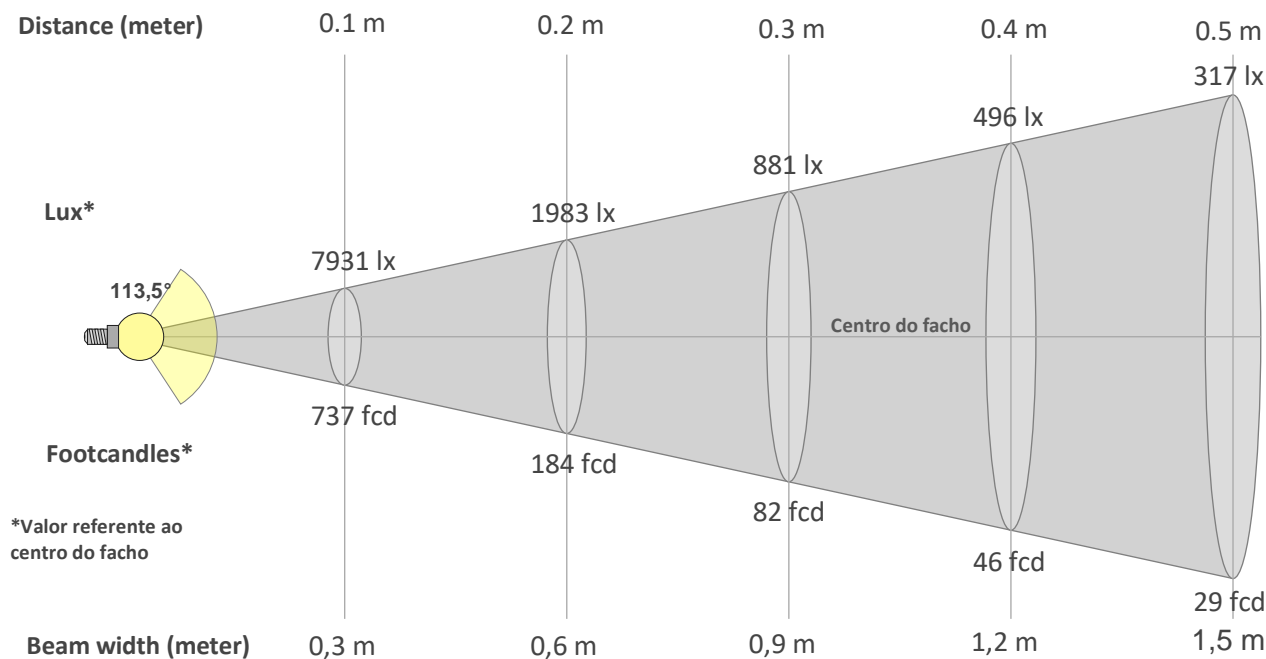
Coeficiente de utilização

| 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 | 104 | 104 | 104 | 99 | 99 | 99 | 96 |
| 1 | 107 | 102 | 98 | 94 | 104 | 100 | 96 | 92 | 95 | 92 | 89 | 90 | 88 | 85 | 86 | 84 | 82 | 80 |
| 2 | 97 | 89 | 82 | 76 | 94 | 87 | 80 | 75 | 83 | 77 | 73 | 79 | 74 | 70 | 75 | 72 | 68 | 66 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 69 | 64 | 59 | 66 | 62 | 58 | 55 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 53 | 64 | 57 | 52 | 62 | 55 | 50 | 59 | 54 | 49 | 47 |
| 5 | 75 | 62 | 52 | 46 | 72 | 60 | 52 | 45 | 58 | 50 | 44 | 55 | 49 | 44 | 53 | 47 | 43 | 41 |
| 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 39 | 52 | 44 | 39 | 50 | 43 | 38 | 48 | 42 | 38 | 35 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 40 | 34 | 30 | 28 |
| 9 | 55 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |
| 10 | 52 | 39 | 31 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 34 | 29 | 24 | 23 |

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 |
| 79lx | 20lx | 9lx | 5lx | 3lx | 2lx | 2lx | 1lx | 1lx | 1lx | 1lx | 1lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx |
| 7,4fcd | 1,8fcd | 0,8fcd | 0,5fcd | 0,3fcd | 0,2fcd | 0,2fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 79,3 | 78,7 | 77,6 | 75,9 | 73,6 | 70,4 | 66,7 | 62,6 | 57,9 | 52,8 | 47,4 | 41,6 | 35,1 | 28,8 | 21,9 | 15,2 | 8,8 | 3,5 | 1,1 | 0,8 |
| 100% | 99% | 98% | 96% | 93% | 89% | 84% | 79% | 73% | 67% | 60% | 52% | 44% | 36% | 28% | 19% | 11% | 4% | 1% | 1% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 79,3 | 79,0 | 78,0 | 76,1 | 73,5 | 70,3 | 66,7 | 62,4 | 57,6 | 52,6 | 47,3 | 41,6 | 35,7 | 29,6 | 23,3 | 17,1 | 11,5 | 7,1 | 4,1 | 2,8 |
| 100% | 100% | 98% | 96% | 93% | 89% | 84% | 79% | 73% | 66% | 60% | 52% | 45% | 37% | 29% | 22% | 14% | 9% | 5% | 4% |

Intensities in 180° c-plane

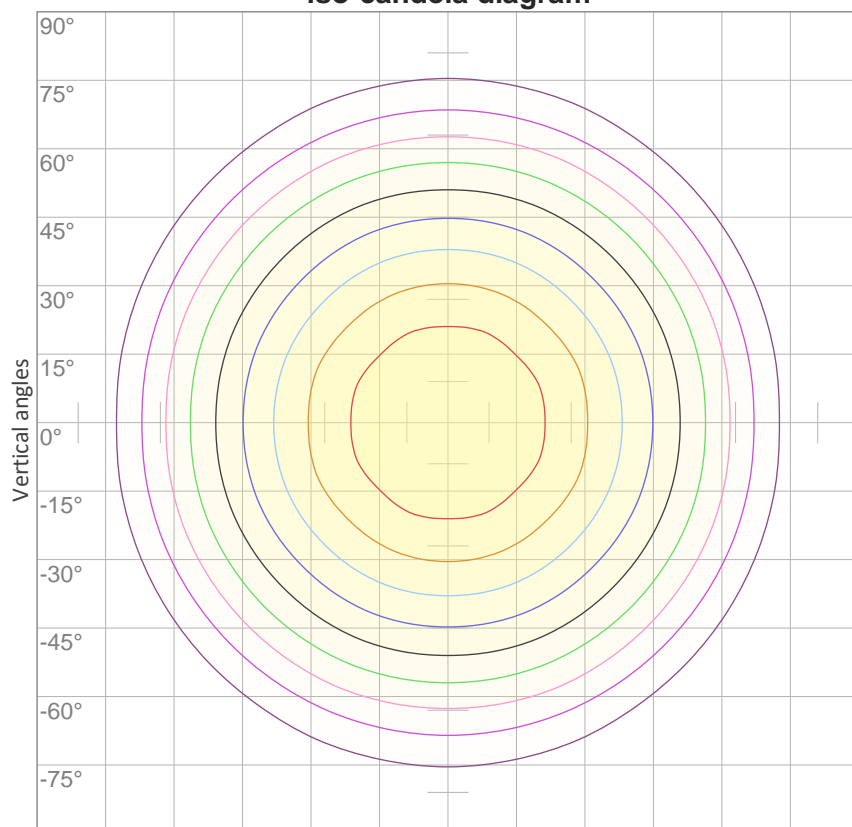
| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 79,3 | 78,7 | 77,6 | 75,9 | 73,6 | 70,4 | 66,7 | 62,6 | 57,9 | 52,8 | 47,4 | 41,6 | 35,1 | 28,8 | 21,9 | 15,2 | 8,8 | 3,5 | 1,1 | 0,8 |
| 100% | 99% | 98% | 96% | 93% | 89% | 84% | 79% | 73% | 67% | 60% | 52% | 44% | 36% | 28% | 19% | 11% | 4% | 1% | 1% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 79,3 | 79,0 | 78,0 | 76,1 | 73,5 | 70,3 | 66,7 | 62,4 | 57,6 | 52,6 | 47,3 | 41,6 | 35,7 | 29,6 | 23,3 | 17,1 | 11,5 | 7,1 | 4,1 | 2,8 |
| 100% | 100% | 98% | 96% | 93% | 89% | 84% | 79% | 73% | 66% | 60% | 52% | 45% | 37% | 29% | 22% | 14% | 9% | 5% | 4% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 113,5° | 164,9° | 198,7° | 74,4% | 50,4% |

iso-candela diagram



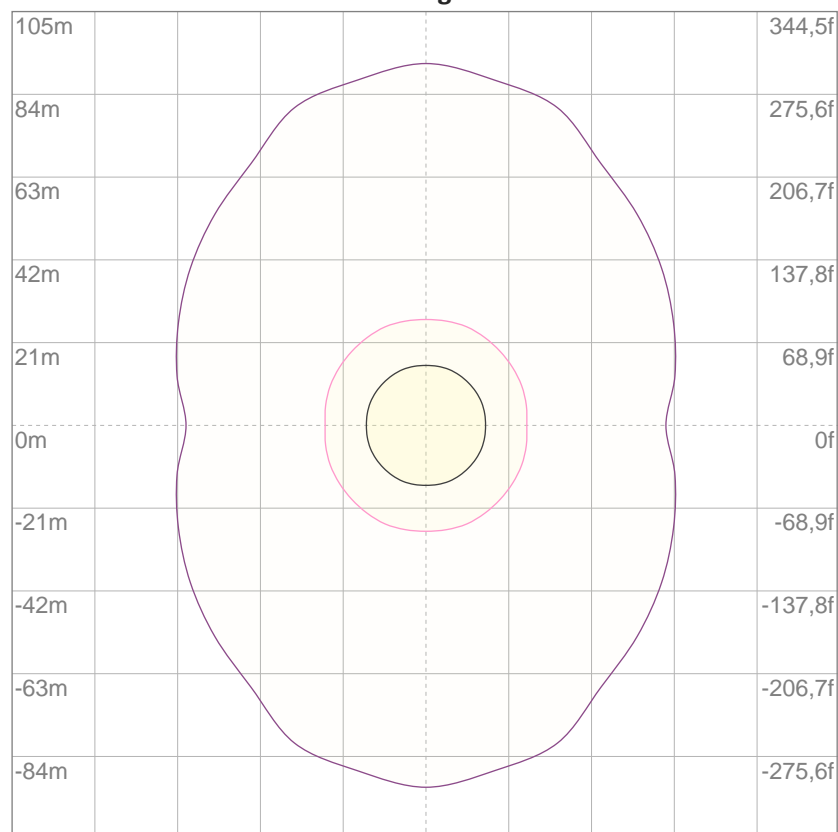
| | |
|-----|-------|
| 10% | 8 cd |
| 20% | 16 cd |
| 30% | 24 cd |
| 40% | 32 cd |
| 50% | 40 cd |
| 60% | 48 cd |
| 70% | 56 cd |
| 80% | 63 cd |
| 90% | 71 cd |

Conditions:

Number of c-planes: 16

Candela at center: 79 cd

iso-lux diagram



| | |
|-----|----------|
| 3% | 23,8m lx |
| 5% | 39,7m lx |
| 10% | 79,3m lx |
| 30% | 0,238 lx |
| 50% | 0,397 lx |

Conditions:

Number of c-planes: 16

Lux at center: 0,793 lx

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

Potência

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

Vttagem: 12,0 V

Corrente: 0,680 A

Frequência: 0 Hz

FP: 1,0

THD



THD corrente: n/a

THD tensão: n/a