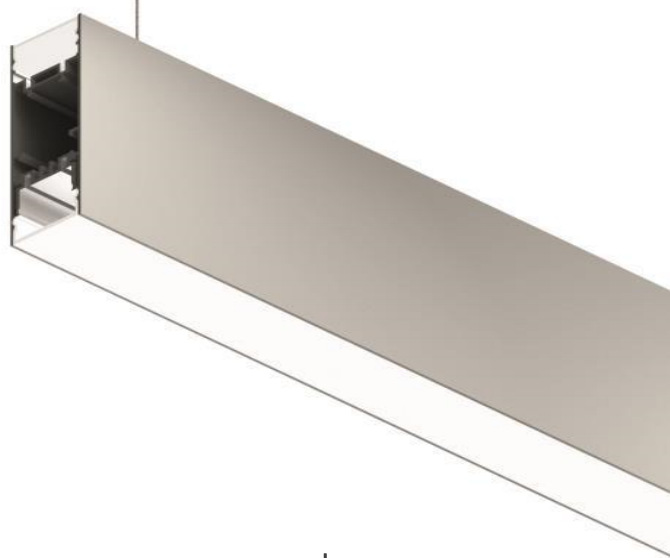


K39N SLED9020N BRANCA FITA 14,4WM 4000K 80 - 1m



Luminária linear pendente com iluminação direta e indireta difusa. Corpo em alumínio extrudado com acabamento na cor branca. Difusor em acrílico extrudado leitoso. Indicado para residência, recepção, escritório etc. Acessórios são de acordo com a instalação. Quantidade lumens esta proporcional a soma de lumens superior e inferior.

Fluxo luminoso – 1676 lm/m

Potência – 28,3 W/m

Intensidade pico – 344cd

CCT – 4011K



IRC – 82,4

Coordenada CIE 1931 – x- 0,381 y- 0,381

A x L - 115x38

Peso - 2,20kg/m

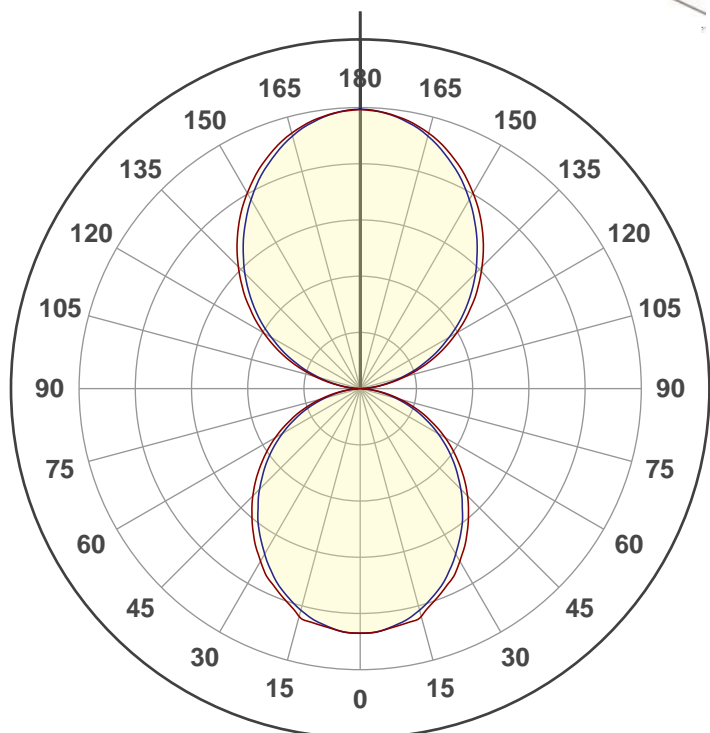
IP - 20 - Uso Interno

IK - 00 – Não aplicável

Alimentação - 12vdc

Data do ensaio

16/08/2021 15:29:14



Facho de abertura

360°

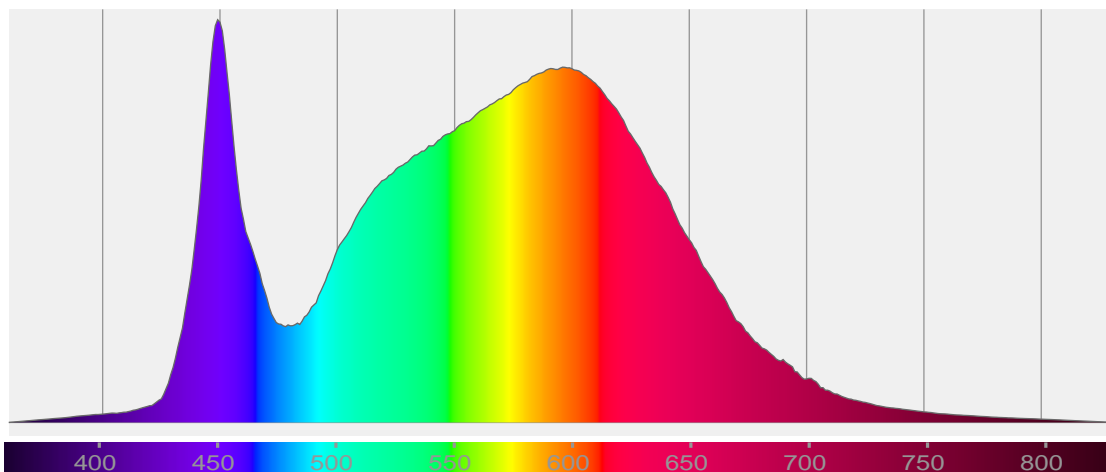
Rf 83,9

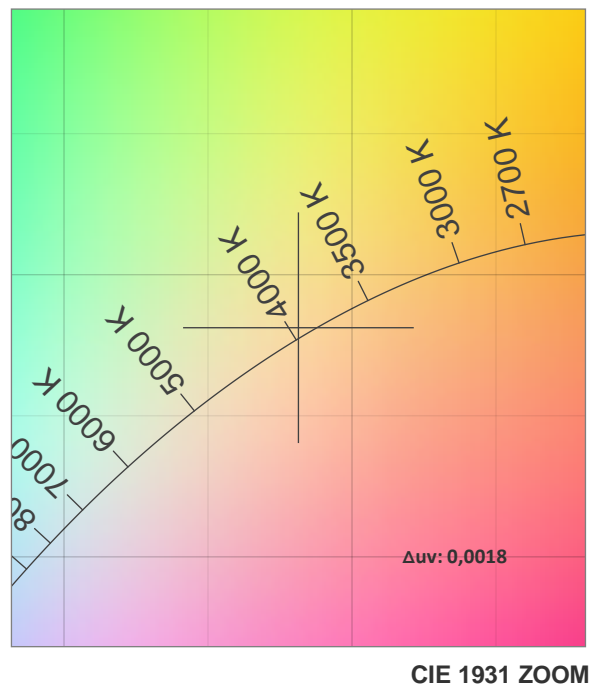
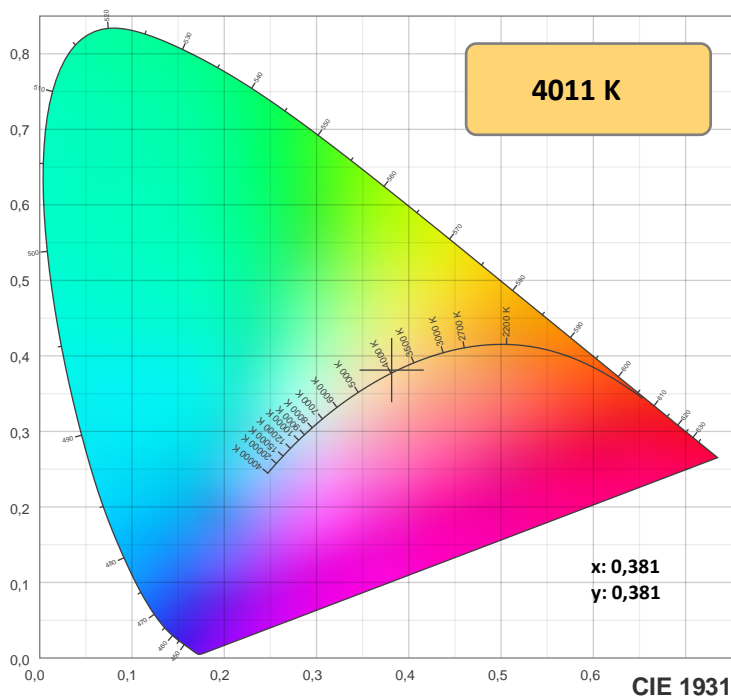
Fidelity index Rf

Rg 96,1

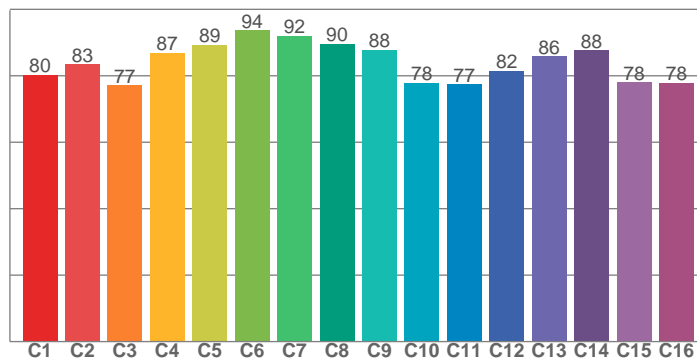
Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| 1 | 80 | -12% | -1% |
| 2 | 83 | -8% | 6% |
| 3 | 77 | -4% | 12% |
| 4 | 87 | 0% | 8% |
| 5 | 89 | 2% | 5% |
| 6 | 94 | 3% | -2% |
| 7 | 92 | -3% | -4% |
| 8 | 90 | -6% | -2% |
| 9 | 88 | -7% | 4% |
| 10 | 78 | -8% | 11% |
| 11 | 77 | 2% | 15% |
| 12 | 82 | 6% | 8% |
| 13 | 86 | 8% | -5% |
| 14 | 88 | 6% | -7% |
| 15 | 78 | 0% | -16% |
| 16 | 78 | -5% | -13% |

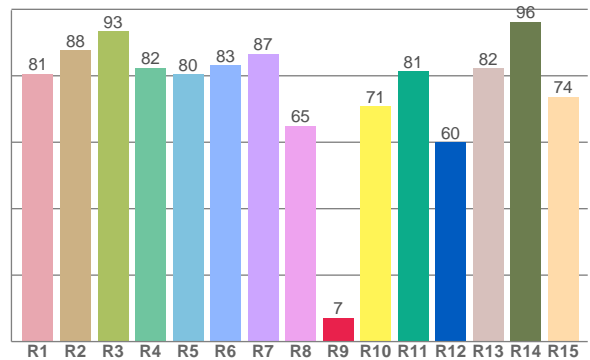




TM-30: 83,9



CRI: 82,4 (R1-R8)



CRIRA R1-R8 / CRIR R1-R15

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 80,6 | 87,7 | 93,3 | 82,4 | 80,5 | 83,1 | 86,6 | 65,0 | 7,2 | 70,8 | 81,3 | 60,1 | 82,2 | 96,2 | 73,6 |

TM30 valores C. 16 valores extraídos dos 99.

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80,3 | 83,4 | 77,1 | 86,8 | 89,4 | 93,6 | 92,0 | 89,7 | 87,7 | 77,9 | 77,4 | 81,5 | 85,9 | 87,6 | 78,0 | 77,8 |

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 |
| 4011 K | 82,4 | 7,2 | 83,9 | 96,1 | 82,2 | 0,381 | 0,381 | 0,224 | 0,336 | 0,0018 |

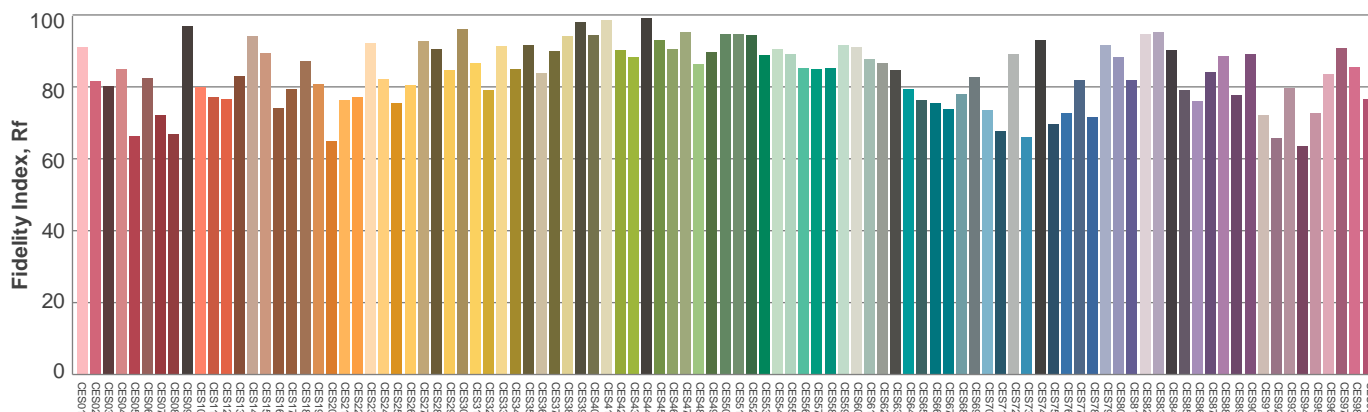
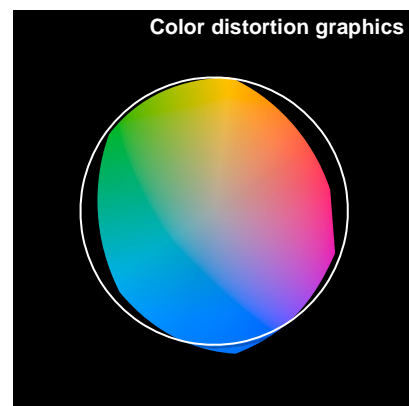
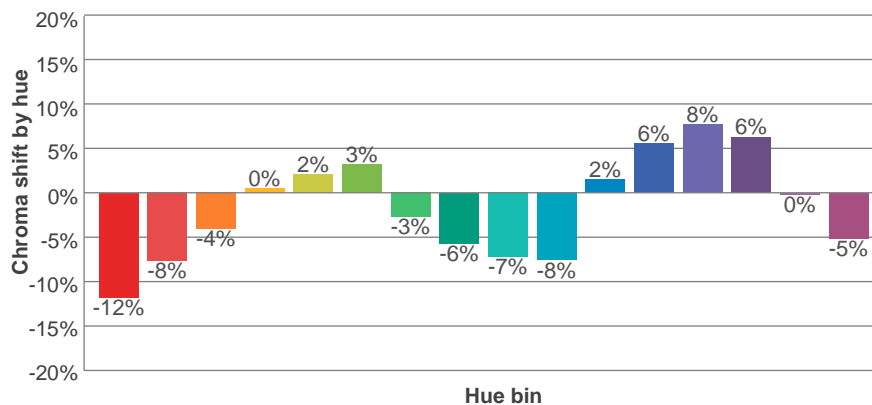
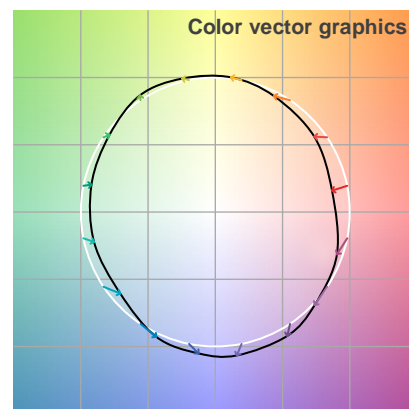
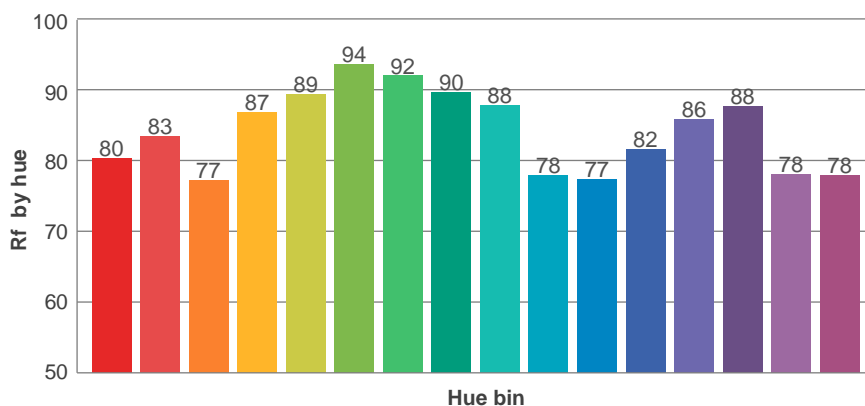
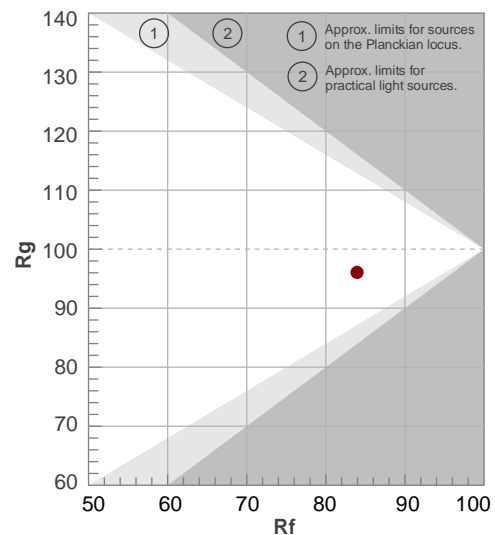
Rf 83,9

Fidelity index Rf

Rg 96,1

Gamut index Rg

| Hue Bin | R _i | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| 1 | 80 | -12% | -1% |
| 2 | 83 | -8% | 6% |
| 3 | 77 | -4% | 12% |
| 4 | 87 | 0% | 8% |
| 5 | 89 | 2% | 5% |
| 6 | 94 | 3% | -2% |
| 7 | 92 | -3% | -4% |
| 8 | 90 | -6% | -2% |
| 9 | 88 | -7% | 4% |
| 10 | 78 | -8% | 11% |
| 11 | 77 | 2% | 15% |
| 12 | 82 | 6% | 8% |
| 13 | 86 | 8% | -5% |
| 14 | 88 | 6% | -7% |
| 15 | 78 | 0% | -16% |
| 16 | 78 | -5% | -13% |



Avaliação todas as amostras de cores

Glare Evaluation According to UGR

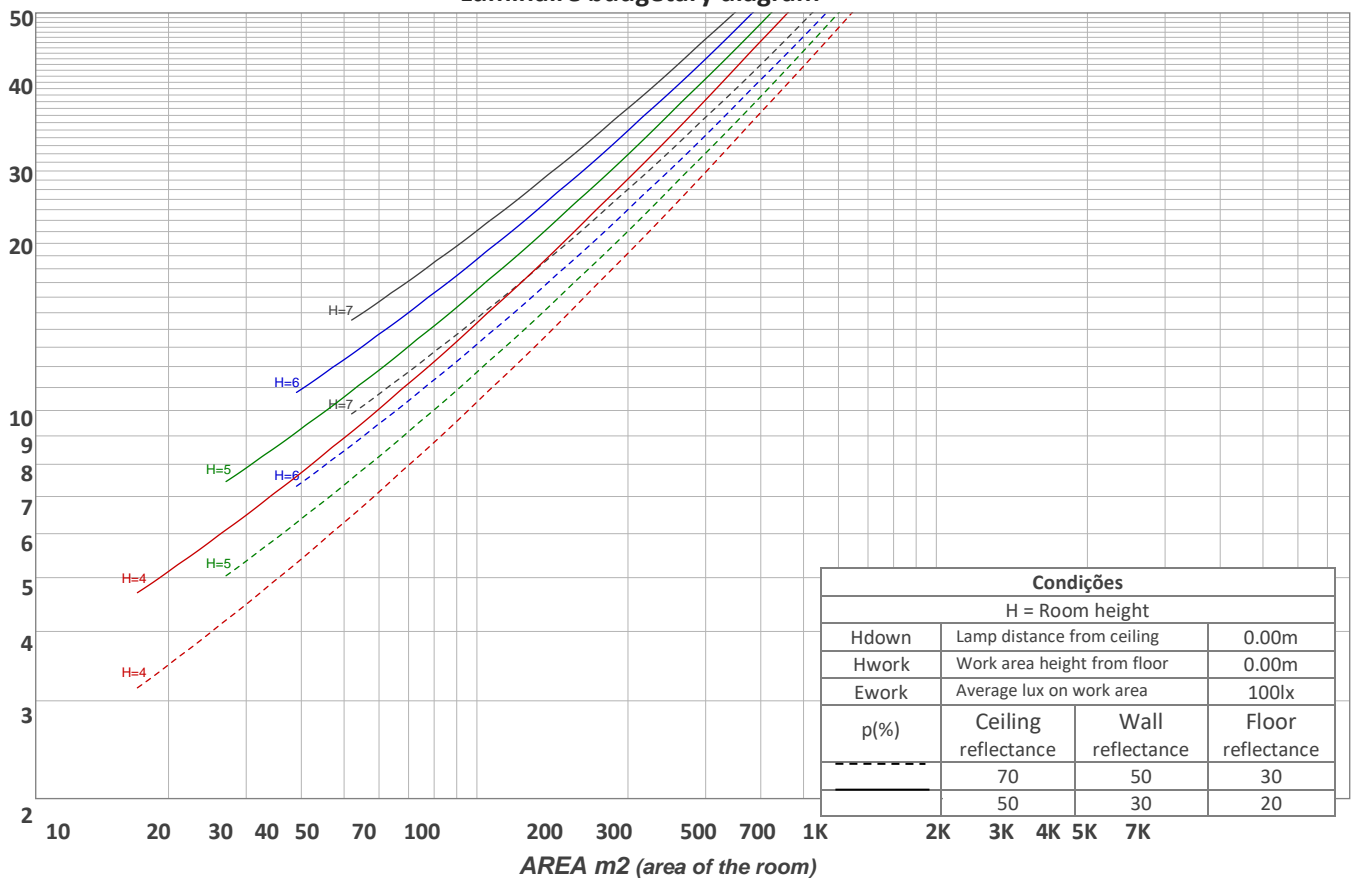
| | | | | | | | | | | | |
|--|-----|--|------|------|------|------|---|------|------|------|------|
| p Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| p Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| p Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room size X Y | | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 15,6 | 16,4 | 16,5 | 17,3 | 18,5 | 15,3 | 16,1 | 16,2 | 16,9 | 18,1 |
| | 3H | 17,0 | 17,7 | 18,0 | 18,6 | 19,8 | 16,6 | 17,3 | 17,5 | 18,2 | 19,3 |
| | 4H | 17,6 | 18,2 | 18,5 | 19,1 | 20,3 | 17,1 | 17,7 | 18,0 | 18,7 | 19,8 |
| | 6H | 17,9 | 18,5 | 18,9 | 19,5 | 20,6 | 17,4 | 18,0 | 18,3 | 19,0 | 20,1 |
| | 8H | 18,0 | 18,7 | 19,0 | 19,6 | 20,7 | 17,5 | 18,1 | 18,4 | 19,0 | 20,2 |
| | 12H | 18,0 | 18,8 | 19,0 | 19,6 | 20,7 | 17,5 | 18,2 | 18,5 | 19,0 | 20,2 |
| 4H | 2H | 16,1 | 16,7 | 17,0 | 17,6 | 18,8 | 15,8 | 16,4 | 16,7 | 17,4 | 18,5 |
| | 3H | 17,7 | 18,4 | 18,6 | 19,2 | 20,4 | 17,3 | 18,0 | 18,2 | 18,8 | 20,0 |
| | 4H | 18,2 | 19,2 | 19,2 | 19,8 | 21,0 | 17,8 | 18,8 | 18,8 | 19,4 | 20,6 |
| | 6H | 18,7 | 19,2 | 19,7 | 20,1 | 21,3 | 18,2 | 18,8 | 19,3 | 19,7 | 20,8 |
| | 8H | 18,8 | 19,2 | 19,8 | 20,2 | 21,4 | 18,4 | 18,8 | 19,4 | 19,7 | 20,9 |
| | 12H | 18,9 | 19,2 | 19,9 | 20,2 | 21,4 | 18,4 | 18,7 | 19,4 | 19,8 | 20,9 |
| 8H | 4H | 18,4 | 18,8 | 19,4 | 19,8 | 20,9 | 18,0 | 18,4 | 19,0 | 19,4 | 20,5 |
| | 6H | 19,0 | 19,2 | 20,0 | 20,3 | 21,5 | 18,6 | 18,8 | 19,6 | 19,9 | 21,1 |
| | 8H | 19,1 | 19,4 | 20,2 | 20,4 | 21,7 | 18,7 | 18,9 | 19,8 | 20,0 | 21,2 |
| | 12H | 19,2 | 19,4 | 20,3 | 20,5 | 21,7 | 18,8 | 19,0 | 19,9 | 20,1 | 21,2 |
| 12H | 4H | 18,4 | 18,7 | 19,3 | 19,7 | 20,8 | 18,0 | 18,3 | 19,0 | 19,3 | 20,5 |
| | 6H | 18,9 | 19,2 | 20,0 | 20,3 | 21,5 | 18,6 | 18,8 | 19,6 | 19,9 | 21,1 |
| | 8H | 19,1 | 19,4 | 20,2 | 20,4 | 21,6 | 18,7 | 19,0 | 19,8 | 20,0 | 21,2 |
| 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 | | | | | 0,2 / -0,3 | | | | |
| S = 2.0H | | 0,5 / -0,5 | | | | | 0,5 / -0,6 | | | | |
| Standard table | | n/a | | | | | n/a | | | | |
| Correction summand | | n/a | | | | | n/a | | | | |
| Corrected glare indices referring to 1676 lm total luminous flux | | | | | | | | | | | |

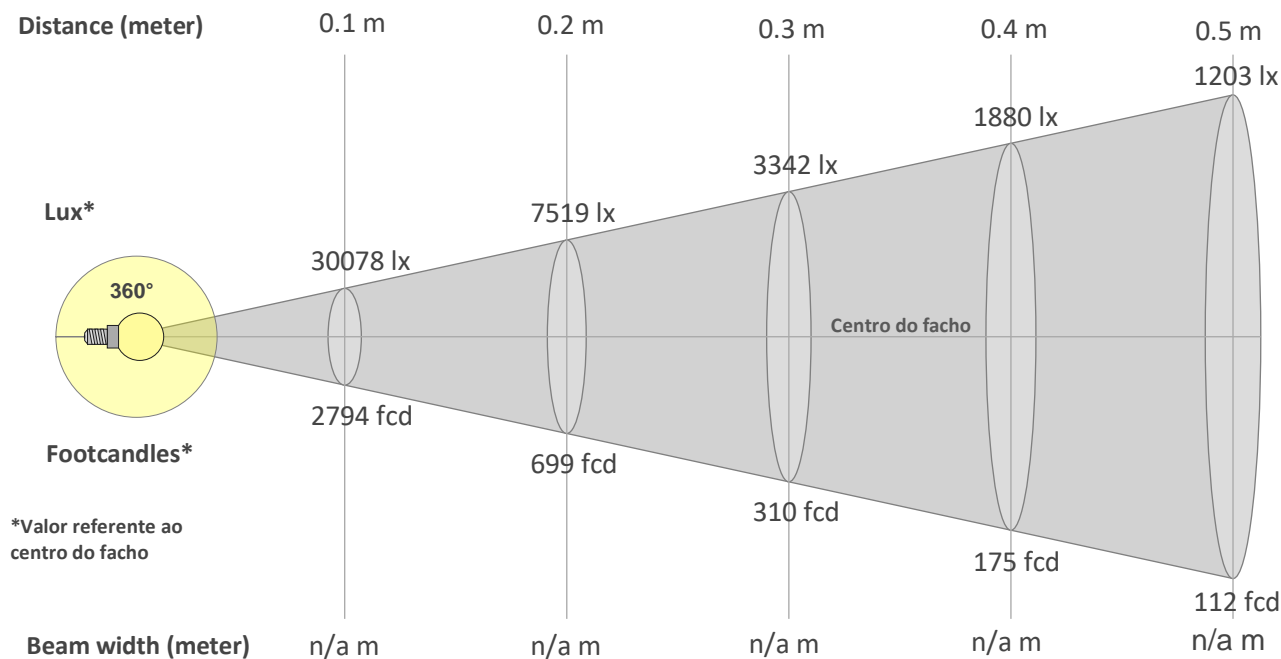
Coeficiente de utilização

| 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 | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 53 | 53 | 53 | 47 |
| 1 | 97 | 93 | 89 | 85 | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 59 | 57 | 55 | 47 | 46 | 45 | 39 |
| 2 | 88 | 81 | 75 | 70 | 81 | 74 | 69 | 65 | 62 | 59 | 55 | 51 | 49 | 46 | 41 | 39 | 38 | 33 |
| 3 | 80 | 71 | 64 | 58 | 74 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 42 | 39 | 36 | 34 | 32 | 28 |
| 4 | 74 | 63 | 55 | 49 | 67 | 58 | 51 | 46 | 49 | 44 | 39 | 40 | 37 | 33 | 33 | 30 | 27 | 24 |
| 5 | 67 | 56 | 48 | 42 | 62 | 52 | 44 | 39 | 44 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 24 | 21 |
| 6 | 62 | 50 | 42 | 36 | 57 | 46 | 39 | 34 | 39 | 34 | 30 | 33 | 28 | 25 | 26 | 23 | 21 | 18 |
| 7 | 57 | 45 | 37 | 32 | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 25 | 22 | 24 | 21 | 19 | 16 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 | 14 |
| 9 | 50 | 37 | 30 | 25 | 45 | 35 | 28 | 23 | 30 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 13 |
| 10 | 46 | 34 | 27 | 22 | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 19 | 16 | 14 | 12 |

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 |
| 301lx | 75lx | 33lx | 19lx | 12lx | 8lx | 6lx | 5lx | 4lx | 3lx | 2lx | 2lx | 2lx | 2lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx |
| 27,9fcd | 7fcd | 3,1fcd | 1,7fcd | 1,1fcd | 0,8fcd | 0,6fcd | 0,4fcd | 0,3fcd | 0,3fcd | 0,2fcd | 0,2fcd | 0,2fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd |

Intensities in 0° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 301 | 296 | 280 | 256 | 223 | 187 | 147 | 107 | 65 | 25 | 3 | 28 | 74 | 121 | 167 | 212 | 253 | 289 | 318 | 336 |
| 100% | 98% | 93% | 85% | 74% | 62% | 49% | 36% | 22% | 8% | 1% | 9% | 25% | 40% | 56% | 70% | 84% | 96% | 106% | 112% |

Intensities in 90° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 301 | 294 | 274 | 246 | 212 | 175 | 137 | 97 | 58 | 22 | 3 | 26 | 67 | 111 | 157 | 201 | 242 | 281 | 313 | 335 |
| 100% | 98% | 91% | 82% | 71% | 58% | 45% | 32% | 19% | 7% | 1% | 9% | 22% | 37% | 52% | 67% | 81% | 93% | 104% | 111% |

Intensities in 180° c-plane

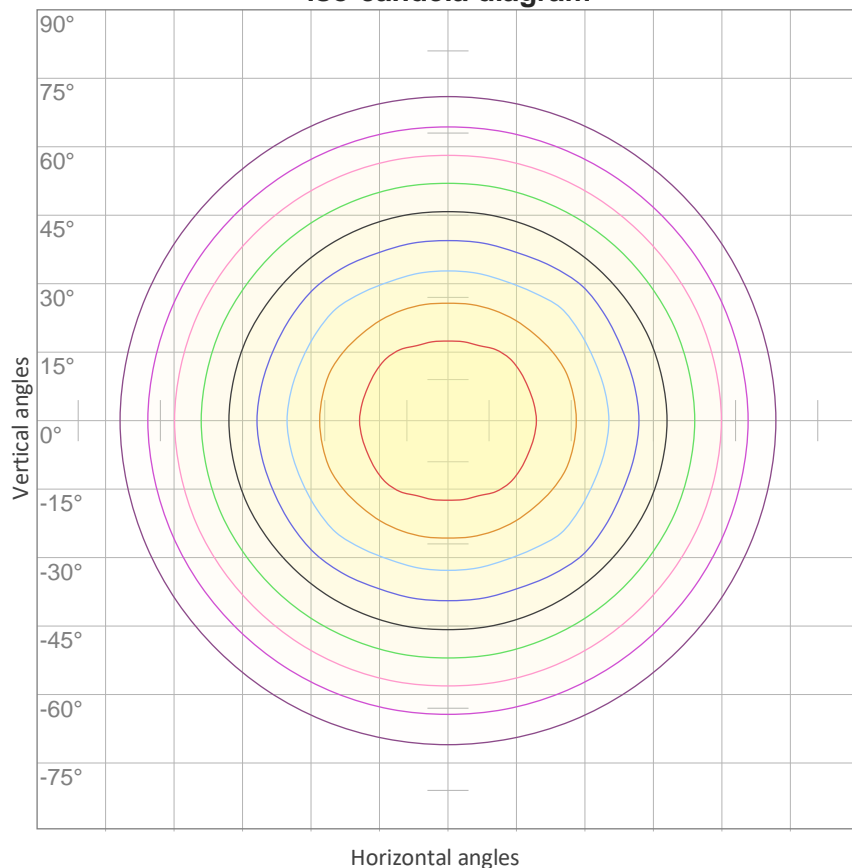
| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 301 | 296 | 280 | 256 | 223 | 187 | 147 | 107 | 65 | 25 | 3 | 28 | 74 | 121 | 167 | 212 | 253 | 289 | 318 | 336 |
| 100% | 98% | 93% | 85% | 74% | 62% | 49% | 36% | 22% | 8% | 1% | 9% | 25% | 40% | 56% | 70% | 84% | 96% | 106% | 112% |

Intensities in 270° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 301 | 294 | 274 | 246 | 212 | 175 | 137 | 97 | 58 | 22 | 3 | 26 | 67 | 111 | 157 | 201 | 242 | 281 | 313 | 335 |
| 100% | 98% | 91% | 82% | 71% | 58% | 45% | 32% | 19% | 7% | 1% | 9% | 22% | 37% | 52% | 67% | 81% | 93% | 104% | 111% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 360° | 360° | 360° | 37,4% | 25,9% |

iso-candela diagram



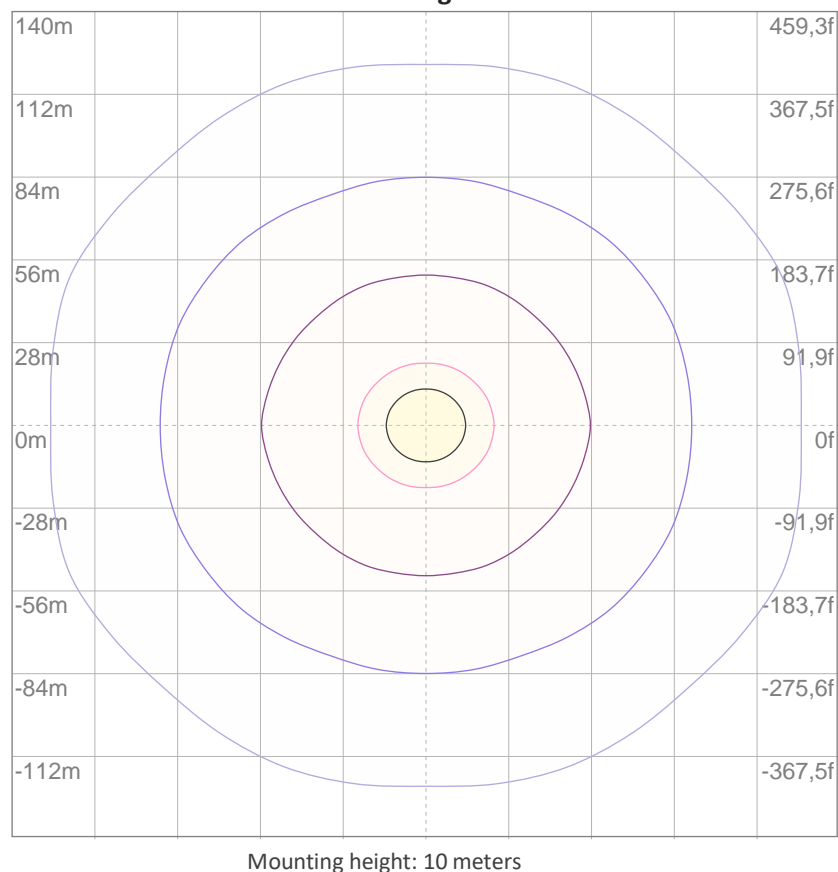
| | |
|-----|--------|
| 10% | 30 cd |
| 20% | 60 cd |
| 30% | 90 cd |
| 40% | 120 cd |
| 50% | 150 cd |
| 60% | 180 cd |
| 70% | 211 cd |
| 80% | 241 cd |
| 90% | 271 cd |

Conditions:

Number of c-planes: 16

Candela at center: 301 cd

iso-lux diagram



| | |
|-----|----------|
| 3% | 90,2m lx |
| 5% | 0,150 lx |
| 10% | 0,301 lx |
| 30% | 0,902 lx |
| 50% | 1,50 lx |

Conditions:

Number of c-planes: 16

Lux at center: 3,01 lx

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

Potência

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

Vttagem: 12,0 V

Corrente: 2,36 A

Frequência: 0 Hz

FP: 1,0

THD



THD corrente: n/a

THD tensão: n/a