

## SLED9122SF LUMINARIA LINEAR DE SOBREPOR 2x2 11Wm 3500K 95 1M



Fluxo luminoso – 549 lm/m

Potência – 11,8 W/m

Intensidade pico – 193cd

CCT – 3470K

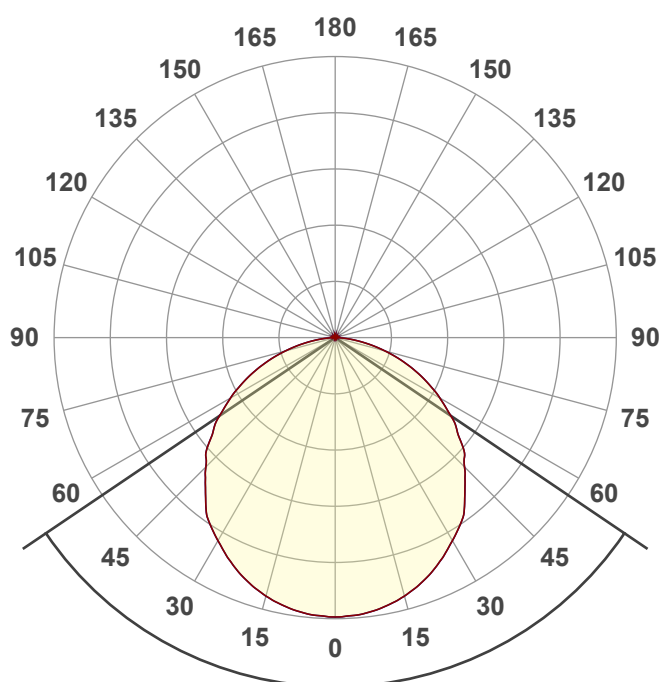


IRC – 96,6

Coordenada CIE 1931 – x- 0,406 y- 0,388

Data do ensaio

30/08/2024 15:03:51



Facho de abertura

**111,8°**

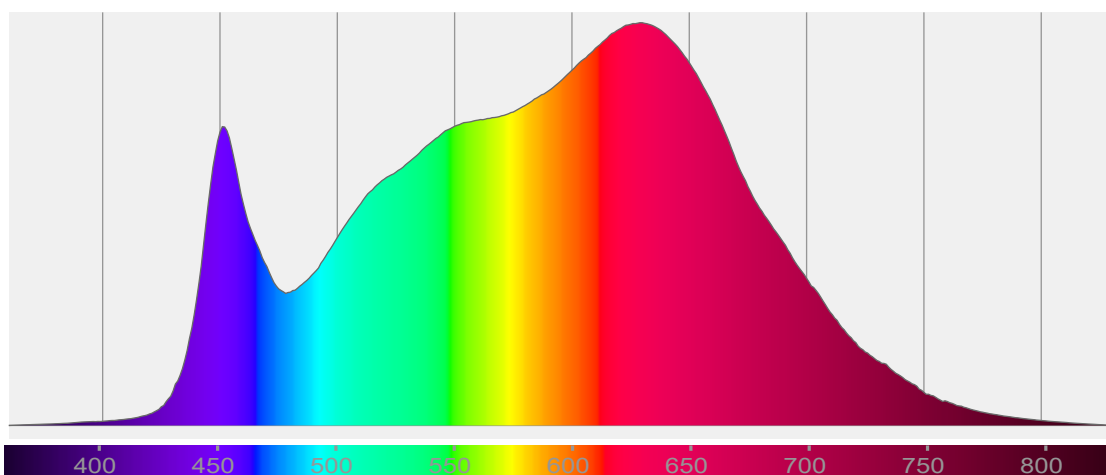
**Rf 93,2**

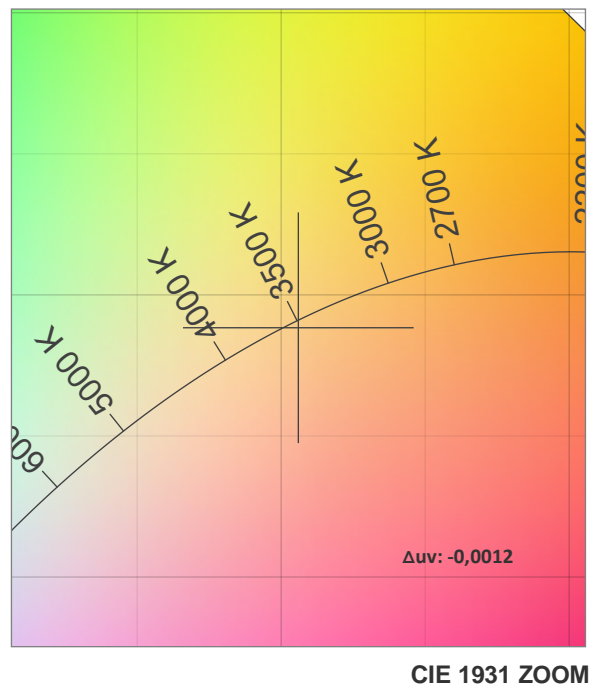
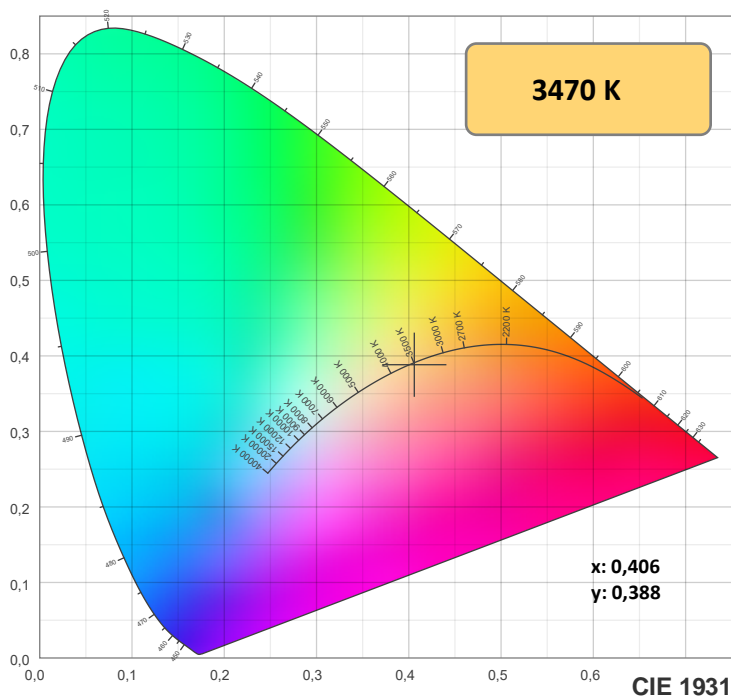
Fidelity index Rf

**Rg 100,5**

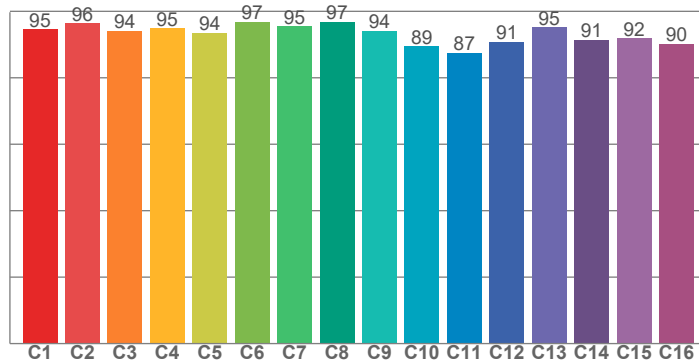
Gamut index Rg

|         |                | Shifts (%) |     |
|---------|----------------|------------|-----|
| Hue Bin | R <sub>f</sub> | Chroma     | Hue |
| 1       | 95             | -2%        | 0%  |
| 2       | 96             | -1%        | 1%  |
| 3       | 94             | 0%         | 3%  |
| 4       | 95             | -1%        | 1%  |
| 5       | 94             | -3%        | 1%  |
| 6       | 97             | 1%         | 0%  |
| 7       | 95             | -2%        | 1%  |
| 8       | 97             | -1%        | 1%  |
| 9       | 94             | -1%        | 4%  |
| 10      | 89             | -1%        | 7%  |
| 11      | 87             | 3%         | 8%  |
| 12      | 91             | 4%         | 3%  |
| 13      | 95             | 2%         | -2% |
| 14      | 91             | 5%         | -4% |
| 15      | 92             | 1%         | -4% |
| 16      | 90             | 1%         | -6% |

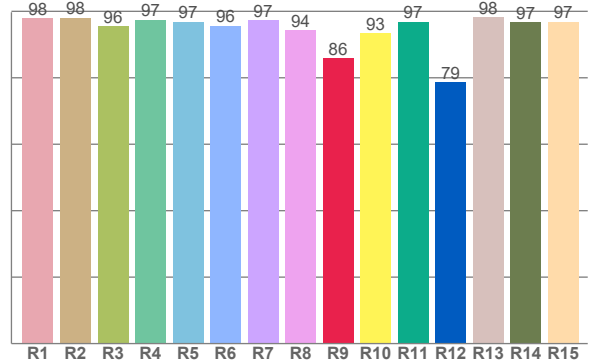




TM-30: 93,2



CRI: 96,6 (R1-R8)



CRIRA R1-R8 / CRIR R1-R15

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,0 | 98,1 | 95,5 | 97,4 | 96,9 | 95,6 | 97,3 | 94,4 | 85,8 | 93,4 | 96,8 | 78,7 | 98,3 | 96,7 | 96,9 |

TM30 valores C. 16 valores extraídos dos 99.

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,6 | 96,3 | 94,0 | 94,9 | 93,6 | 96,8 | 95,4 | 96,8 | 94,2 | 89,4 | 87,5 | 90,8 | 95,1 | 91,4 | 91,9 | 90,3 |

## 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                 | $\Delta uv$                     |
| 3470 K             | 96,6                        | 85,8                          | 93,2           | 100,5       | 94,6                | 0,406                      | 0,388                      | 0,237             | 0,340             | -0,0012                         |

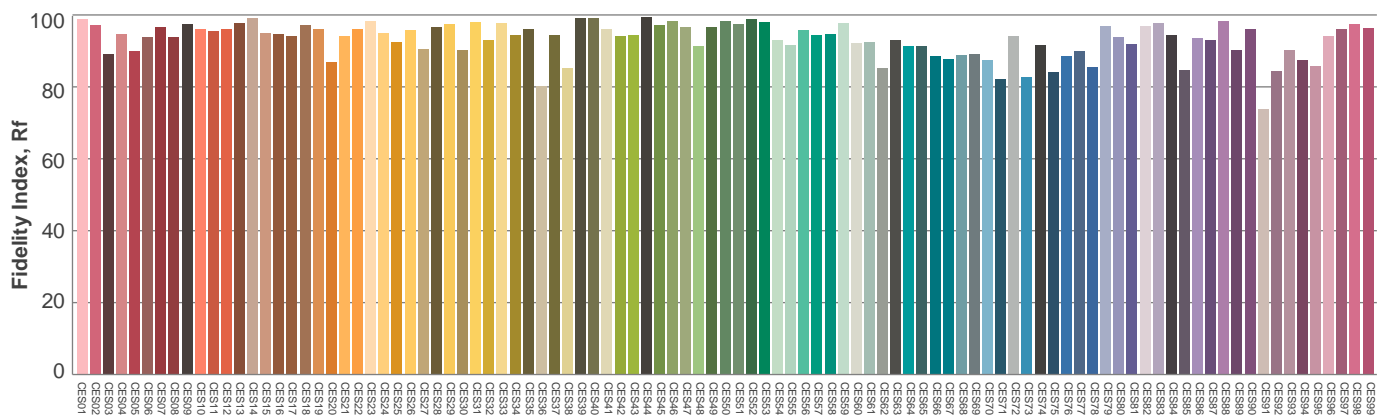
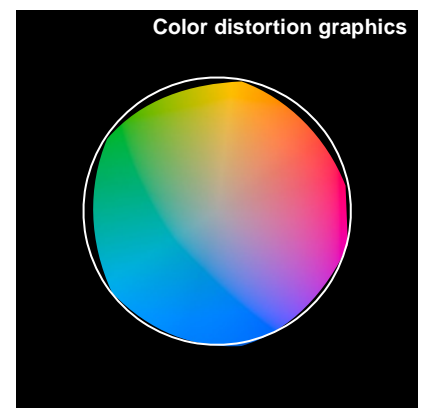
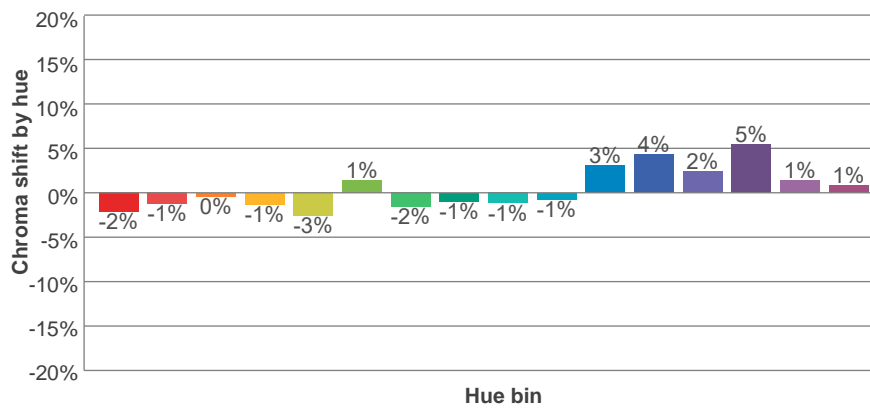
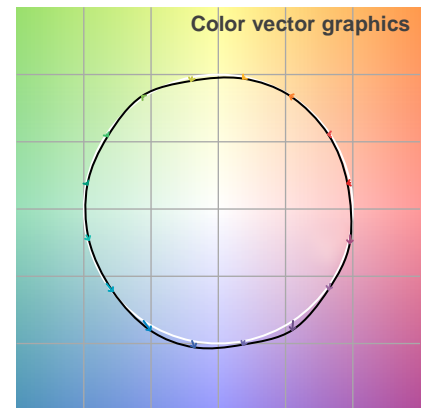
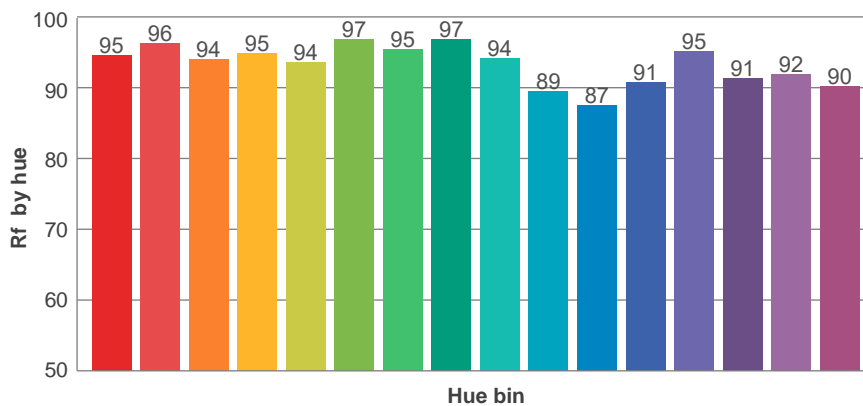
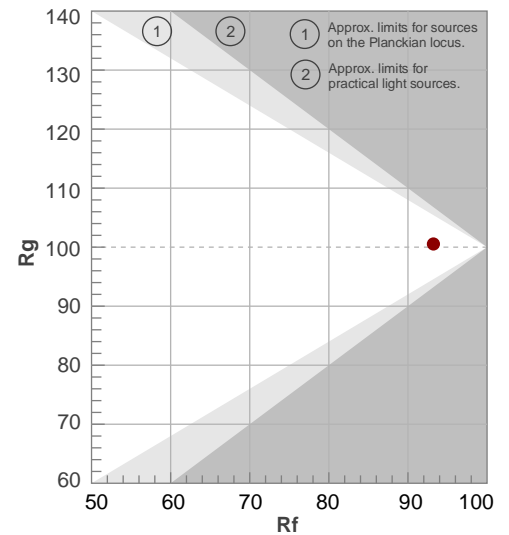
**Rf 93,2**

Fidelity index Rf

**Rg 100,5**

Gamut index Rg

| Hue Bin | R <sub>i</sub> | Shifts (%) |     |
|---------|----------------|------------|-----|
|         |                | Chroma     | Hue |
| 1       | 95             | -2%        | 0%  |
| 2       | 96             | -1%        | 1%  |
| 3       | 94             | 0%         | 3%  |
| 4       | 95             | -1%        | 1%  |
| 5       | 94             | -3%        | 1%  |
| 6       | 97             | 1%         | 0%  |
| 7       | 95             | -2%        | 1%  |
| 8       | 97             | -1%        | 1%  |
| 9       | 94             | -1%        | 4%  |
| 10      | 89             | -1%        | 7%  |
| 11      | 87             | 3%         | 8%  |
| 12      | 91             | 4%         | 3%  |
| 13      | 95             | 2%         | -2% |
| 14      | 91             | 5%         | -4% |
| 15      | 92             | 1%         | -4% |
| 16      | 90             | 1%         | -6% |



Avaliação todas as amostras de cores

Glare Evaluation According to UGR

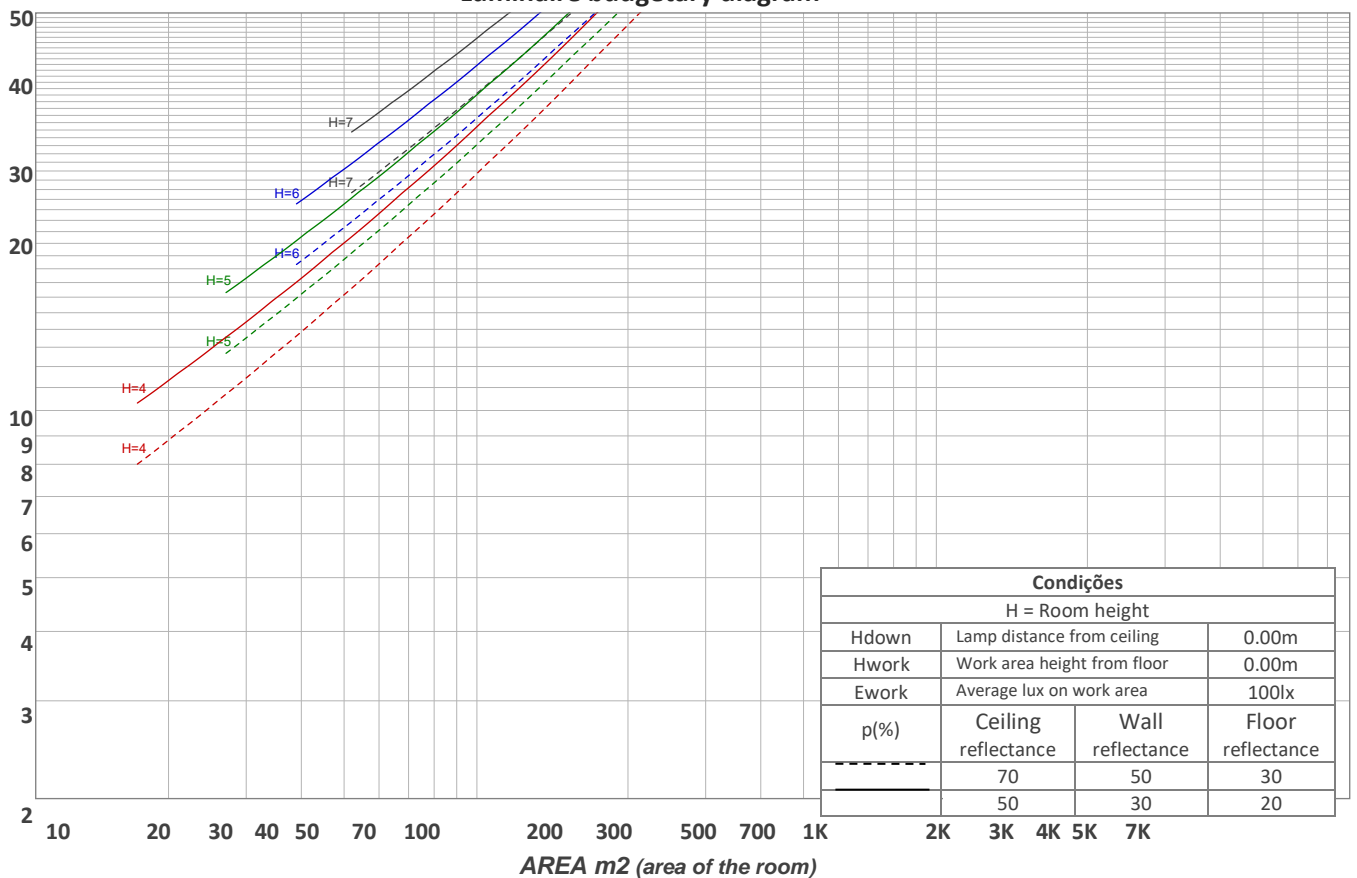
|   |     |  |      |      |      |      |   |      |      |      |      |
|---|-----|--|------|------|------|------|---|------|------|------|------|
| p Ceiling   |     | 70   | 70   | 50   | 50   | 30   | 70                                      | 70   | 50   | 50   | 30   |
| p Walls   |     | 50   | 30   | 50   | 30   | 30   | 50                                      | 30   | 50   | 30   | 30   |
| p Floor   |     | 20   | 20   | 20   | 20   | 20   | 20                                      | 20   | 20   | 20   | 20   |
| Room size<br>X    Y   |     | Viewing direction at right angles to lamp axis |      |      |      |      | Viewing direction parallel to lamp axis |      |      |      |      |
| 2H  | 2H  | 20,1   | 21,3 | 20,3 | 21,6 | 21,9 | 20,1                                    | 21,3 | 20,3 | 21,6 | 21,9 |
|   | 3H  | 21,5   | 22,8 | 22,0 | 23,1 | 23,3 | 21,5                                    | 22,8 | 22,0 | 23,1 | 23,3 |
|   | 4H  | 22,2   | 23,4 | 22,6 | 23,6 | 23,9 | 22,2                                    | 23,4 | 22,6 | 23,6 | 23,9 |
|   | 6H  | 22,6   | 23,7 | 23,0 | 24,0 | 24,4 | 22,6                                    | 23,7 | 23,0 | 24,0 | 24,4 |
|   | 8H  | 22,8   | 23,8 | 23,1 | 24,1 | 24,5 | 22,8                                    | 23,8 | 23,1 | 24,1 | 24,5 |
|   | 12H | 22,8   | 23,8 | 23,2 | 24,1 | 24,6 | 22,8                                    | 23,8 | 23,2 | 24,1 | 24,6 |
| 4H  | 2H  | 20,7   | 21,9 | 21,1 | 22,2 | 22,5 | 20,7                                    | 21,9 | 21,1 | 22,2 | 22,5 |
|   | 3H  | 22,5   | 23,5 | 22,8 | 23,8 | 24,3 | 22,5                                    | 23,5 | 22,8 | 23,8 | 24,3 |
|   | 4H  | 23,1   | 24,0 | 23,6 | 24,5 | 25,0 | 23,1                                    | 24,0 | 23,6 | 24,5 | 25,0 |
|   | 6H  | 23,6   | 24,5 | 24,2 | 24,9 | 25,3 | 23,6                                    | 24,5 | 24,2 | 24,9 | 25,3 |
|   | 8H  | 23,8   | 24,6 | 24,3 | 25,0 | 25,4 | 23,8                                    | 24,6 | 24,3 | 25,0 | 25,4 |
|   | 12H | 23,9   | 24,6 | 24,4 | 25,0 | 25,5 | 23,9                                    | 24,6 | 24,4 | 25,0 | 25,5 |
| 8H  | 4H  | 23,4   | 24,2 | 23,9 | 24,6 | 25,0 | 23,4                                    | 24,2 | 23,9 | 24,6 | 25,0 |
|   | 6H  | 24,1   | 24,7 | 24,6 | 25,2 | 25,7 | 24,1                                    | 24,7 | 24,6 | 25,2 | 25,7 |
|   | 8H  | 24,3   | 24,9 | 24,9 | 25,4 | 26,0 | 24,3                                    | 24,9 | 24,9 | 25,4 | 26,0 |
|   | 12H | 24,5   | 24,9 | 25,1 | 25,4 | 26,1 | 24,5                                    | 24,9 | 25,1 | 25,4 | 26,1 |
| 12H   | 4H  | 23,4   | 24,1 | 23,9 | 24,5 | 25,0 | 23,4                                    | 24,1 | 23,9 | 24,5 | 25,0 |
|   | 6H  | 24,1   | 24,7 | 24,7 | 25,2 | 25,9 | 24,1                                    | 24,7 | 24,7 | 25,2 | 25,9 |
|   | 8H  | 24,4   | 24,9 | 25,0 | 25,4 | 26,0 | 24,4                                    | 24,9 | 25,0 | 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  |     | 0,2 / -0,3                                     |      |      |      |      | 0,2 / -0,3                              |      |      |      |      |
| S = 2.0H  |     | 0,4 / -0,5                                     |      |      |      |      | 0,4 / -0,5                              |      |      |      |      |
| Standard table  |     | n/a  |      |      |      |      | n/a                                     |      |      |      |      |
| Correction<br>summand   |     | n/a  |      |      |      |      | n/a                                     |      |      |      |      |
| Corrected glare indices referring to 549 lm total luminous flux |     |  |      |      |      |      |   |      |      |      |      |

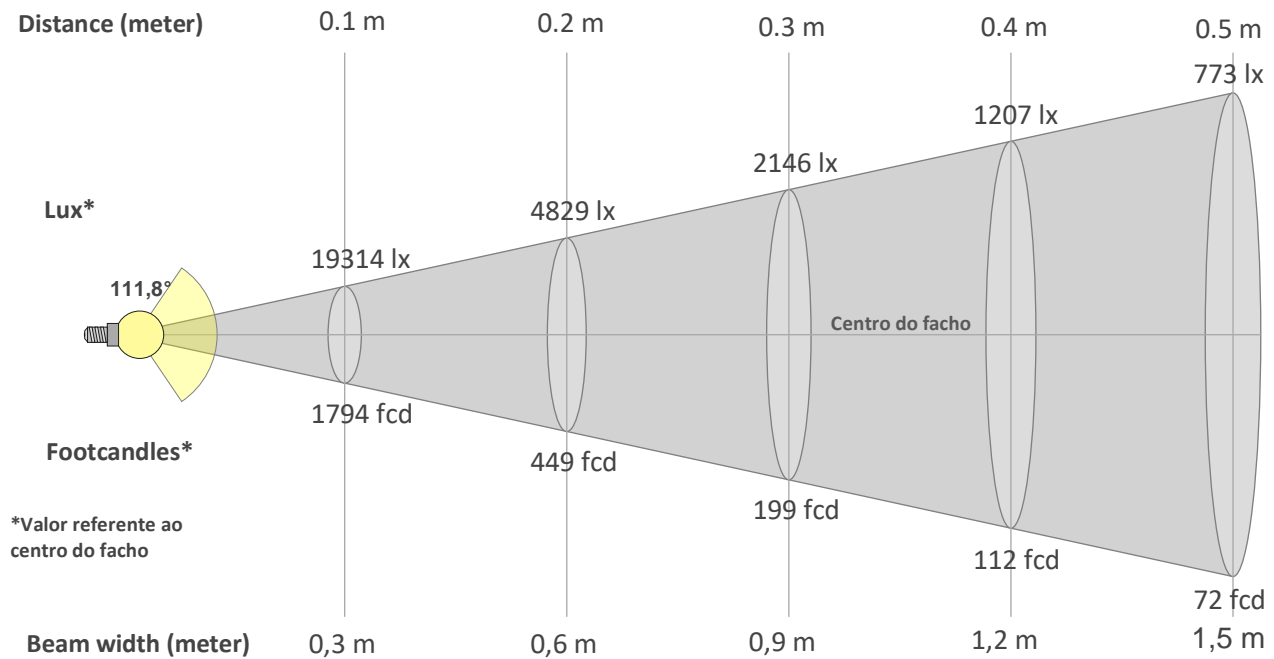
**Coeficiente de utilização**

| 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                   | 109  | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 89  | 87  | 85  | 83 |
| 2                   | 99   | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 81  | 77  | 73  | 78  | 75  | 71  | 69 |
| 3                   | 90   | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 64  | 60  | 58 |
| 4                   | 82   | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 50 |
| 5                   | 76   | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 43 |
| 6                   | 70   | 56  | 48  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 38 |
| 7                   | 65   | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33 |
| 8                   | 60   | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 31  | 30 |
| 9                   | 56   | 43  | 35  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 28  | 27 |
| 10                  | 53   | 40  | 32  | 26  | 51  | 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 |
| 193lx   | 48lx   | 21lx  | 12lx   | 8lx    | 5lx    | 4lx    | 3lx    | 2lx    | 2lx    | 2lx    | 1lx    | 1lx    | 1lx    | 1lx    | 1lx    | 1lx    | 1lx    | 1lx    | 0lx    |
| 17,9fcd | 4,5fcd | 2fcd  | 1,1fcd | 0,7fcd | 0,5fcd | 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   |

### 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 193  | 192  | 189 | 185 | 179 | 171 | 162 | 153 | 139 | 126 | 114 | 100 | 84  | 68  | 52  | 36  | 21  | 8   | 1   | 1   |
| 100% | 100% | 98% | 96% | 93% | 88% | 84% | 79% | 72% | 65% | 59% | 52% | 43% | 35% | 27% | 18% | 11% | 4%  | 0%  | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 193  | 192  | 189 | 185 | 179 | 171 | 162 | 153 | 139 | 126 | 114 | 100 | 84  | 68  | 52  | 36  | 21  | 8   | 1   | 1   |
| 100% | 100% | 98% | 96% | 93% | 88% | 84% | 79% | 72% | 65% | 59% | 52% | 43% | 35% | 27% | 18% | 11% | 4%  | 0%  | 0%  |

### Intensities in 180° c-plane

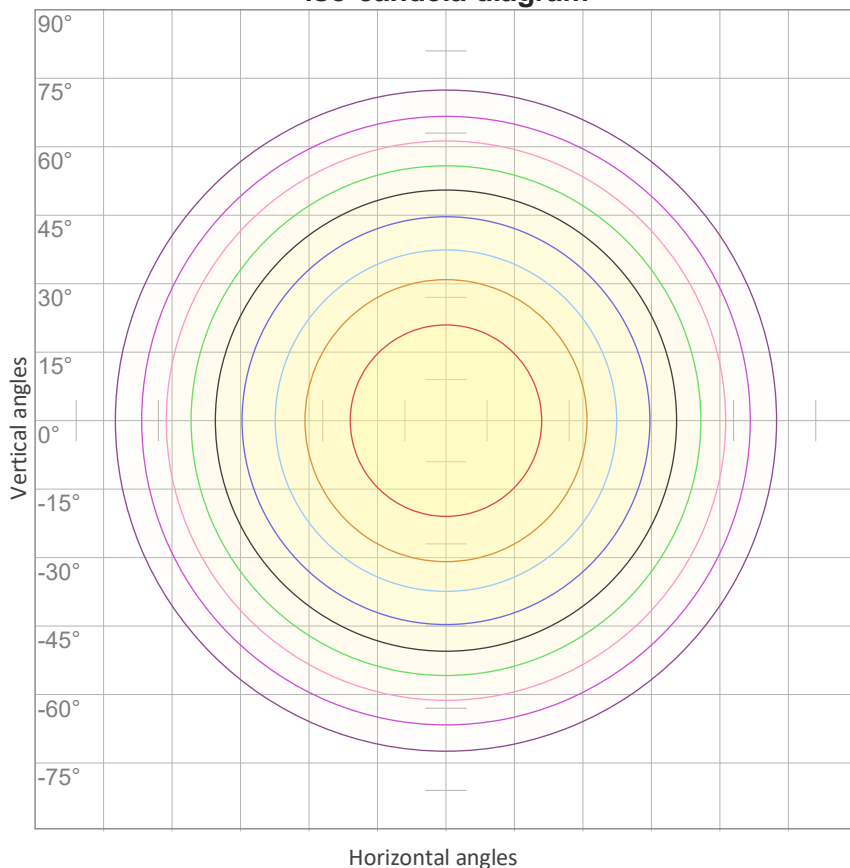
| 0°   | 5°   | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 193  | 192  | 189 | 185 | 179 | 171 | 162 | 153 | 139 | 126 | 114 | 100 | 84  | 68  | 52  | 36  | 21  | 8   | 1   | 1   |
| 100% | 100% | 98% | 96% | 93% | 88% | 84% | 79% | 72% | 65% | 59% | 52% | 43% | 35% | 27% | 18% | 11% | 4%  | 0%  | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 193  | 192  | 189 | 185 | 179 | 171 | 162 | 153 | 139 | 126 | 114 | 100 | 84  | 68  | 52  | 36  | 21  | 8   | 1   | 1   |
| 100% | 100% | 98% | 96% | 93% | 88% | 84% | 79% | 72% | 65% | 59% | 52% | 43% | 35% | 27% | 18% | 11% | 4%  | 0%  | 0%  |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 111,8°         | 161°            | 173°              | 78,5%                        | 53,5%                       |

**iso-candela diagram**



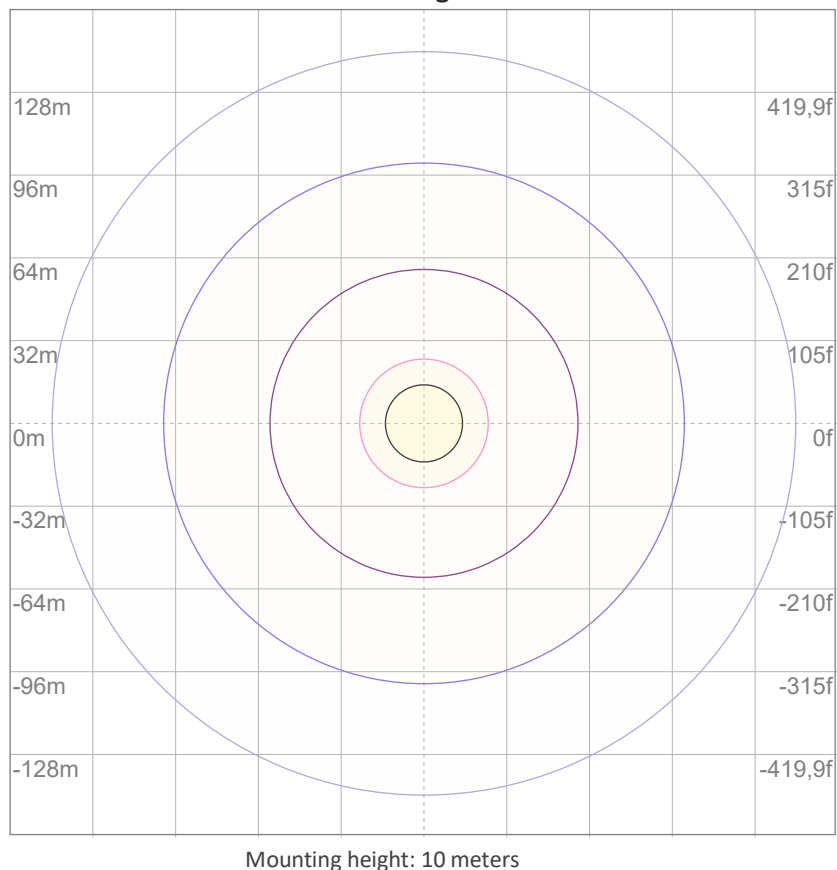
|     |        |
|-----|--------|
| 10% | 19 cd  |
| 20% | 39 cd  |
| 30% | 58 cd  |
| 40% | 77 cd  |
| 50% | 97 cd  |
| 60% | 116 cd |
| 70% | 135 cd |
| 80% | 155 cd |
| 90% | 174 cd |

Conditions:

Number of c-planes: 16

Candela at center: 193 cd

**iso-lux diagram**



|     |          |
|-----|----------|
| 3%  | 57,9m lx |
| 5%  | 96,6m lx |
| 10% | 0,193 lx |
| 30% | 0,579 lx |
| 50% | 0,966 lx |

Conditions:

Number of c-planes: 16

Lux at center: 1,93 lx

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

**Potência**



**Vttagem: 12,0 V**

**Corrente: 0,982 A**

**Frequência: 0 Hz**

**FP: 1,0**

**THD**



**THD corrente: n/a**

**THD tensão: n/a**