

LEDS C4[®]

Luminaria

Código 10-A002-08-08_4000K

Nombre LEVELS

Ensayo

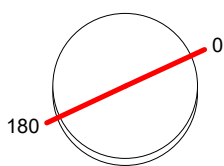
Código 10-A002-08-08_4000K

Nombre LEVELS

| | | | | | | | |
|----------------------------|--------|--------------------|---------------|-------------------------------|----------------|---------------|---------------|
| Flujo Luminaria | 965 lm | Potencia Luminaria | 14.7 W | Eficacia | 65.646 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 965 lm | Valor Máximo | 360.52 cd/klm | Posición | C=0.00 G=14.00 | CG | Rotosimétrico |
| Luminaria Redonda | | Diam. | 215 mm | Altura | 215 mm | | |
| Área Luminosa Redonda | | Diam. | 115 mm | Altura | 0 mm | | |
| Área Luminosa Horizontal | | 0.010387 m2 | | Área Emisión sobre Pl. 180° | | 0.000000 m2 | |
| Área Emisión sobre Pl. 0° | | 0.000000 m2 | | Área Emisión sobre Pl. 270° | | 0.000000 m2 | |
| Área Emisión sobre Pl. 90° | | 0.000000 m2 | | Área de deslumbramiento a 76° | | 0.002513 m2 | |
| Sist. de Coorden. | | CG | | Tipo de Simetría | | Rotosimétrico | |
| Fecha | | 16-09-2022 | | Máximo Ángulo Gamma | | 90 | |
| Distancia de Ensayo | | 0.00 | | Flujo de Ensayo | | 566 lm | |
| Operador | | qualitat | | Tensión Nominal | | | |
| Temperatura | | | | Corriente Nominal | | | |
| Humedad | | | | Fotocélula | | | |
| Notas | | | | | | | |

| Fuentes de luz de la Luminaria | | | | | | |
|--------------------------------|------------------|---------------------|-------------|----------|-------|--|
| Familia | Código LED | Nombre LED | Flujo [lm] | Pot. [W] | Cant. | |
| C.I.E. | 45 74 92 100 100 | | 965.00 | 14.70 | 1 | |
| F UTE | 1.00 E | | | | | |
| | | D DIN 5040 B NBN | A30 BZ 5 | | | |

Diam=215mm



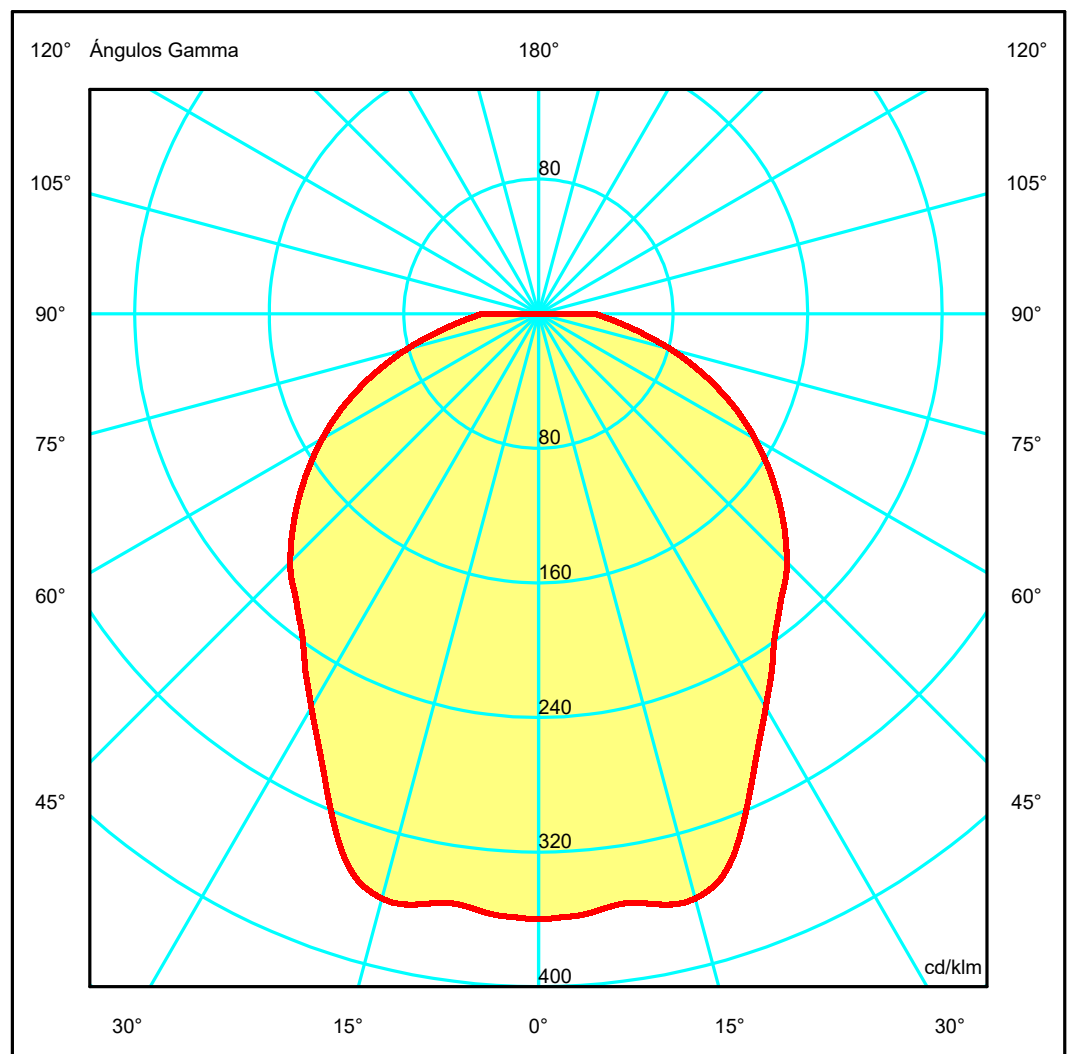
Semiplanos C

180.0 — 0.0

ULOR 0.00 %

DLOR100.00 %

RN 0.00 %



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Tabla de Intensidad Luminosa cd/klm

Tabla 1/1

| | C 0.00 | C 0.00 |
|--------|--------|---------------|
| G 0.0 | 359.90 | G 46.0 205.08 |
| G 1.0 | 359.65 | G 47.0 201.32 |
| G 2.0 | 359.07 | G 48.0 197.44 |
| G 3.0 | 358.65 | G 49.0 193.48 |
| G 4.0 | 358.30 | G 50.0 189.56 |
| G 5.0 | 357.39 | G 51.0 185.56 |
| G 6.0 | 356.09 | G 52.0 181.54 |
| G 7.0 | 354.80 | G 53.0 177.39 |
| G 8.0 | 354.03 | G 54.0 173.34 |
| G 9.0 | 354.39 | G 55.0 169.26 |
| G 10.0 | 355.64 | G 56.0 165.13 |
| G 11.0 | 357.34 | G 57.0 160.99 |
| G 12.0 | 359.06 | G 58.0 156.84 |
| G 13.0 | 360.29 | G 59.0 152.79 |
| G 14.0 | 360.52 | G 60.0 148.57 |
| G 15.0 | 359.84 | G 61.0 144.35 |
| G 16.0 | 358.31 | G 62.0 140.07 |
| G 17.0 | 355.87 | G 63.0 135.68 |
| G 18.0 | 352.41 | G 64.0 131.23 |
| G 19.0 | 347.22 | G 65.0 126.74 |
| G 20.0 | 340.88 | G 66.0 122.15 |
| G 21.0 | 333.55 | G 67.0 117.54 |
| G 22.0 | 325.58 | G 68.0 113.01 |
| G 23.0 | 317.66 | G 69.0 108.43 |
| G 24.0 | 309.54 | G 70.0 103.82 |
| G 25.0 | 301.86 | G 71.0 99.19 |
| G 26.0 | 294.52 | G 72.0 94.69 |
| G 27.0 | 287.97 | G 73.0 90.22 |
| G 28.0 | 281.75 | G 74.0 85.73 |
| G 29.0 | 275.81 | G 75.0 81.24 |
| G 30.0 | 270.18 | G 76.0 76.82 |
| G 31.0 | 264.58 | G 77.0 72.50 |
| G 32.0 | 259.43 | G 78.0 68.27 |
| G 33.0 | 254.17 | G 79.0 64.22 |
| G 34.0 | 248.89 | G 80.0 60.36 |
| G 35.0 | 243.46 | G 81.0 56.70 |
| G 36.0 | 238.61 | G 82.0 53.24 |
| G 37.0 | 234.40 | G 83.0 50.02 |
| G 38.0 | 230.75 | G 84.0 47.01 |
| G 39.0 | 227.32 | G 85.0 44.27 |
| G 40.0 | 223.88 | G 86.0 41.79 |
| G 41.0 | 220.81 | G 87.0 39.44 |
| G 42.0 | 218.08 | G 88.0 37.33 |
| G 43.0 | 215.43 | G 89.0 35.43 |
| G 44.0 | 212.30 | G 90.0 33.78 |
| G 45.0 | 208.77 | |

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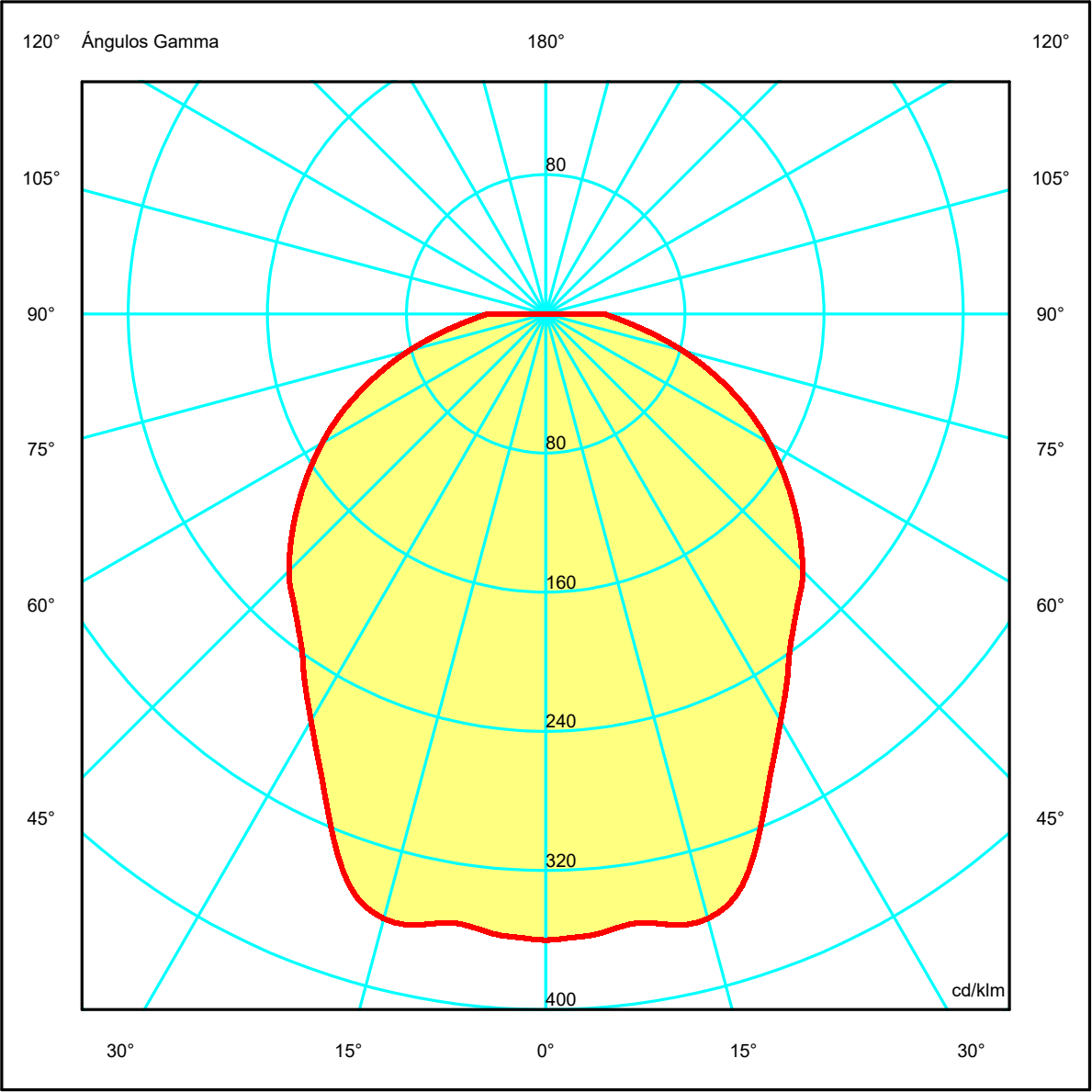
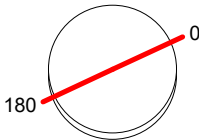
Código 10-A002-08-08_4000K
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Ensayo
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| Flujo Fuente | 965 lm | Valor Máximo | 360.52 cd/klm | Posición | C=0.00 G=14.00 | CG | Rotosimétrico |

Diam=215mm

Semiplanos C

180.0 0.0



LEDS C4²

Luminaria

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Nombre LEVELS

Ensayo

Código 10-A002-08-08_4000K

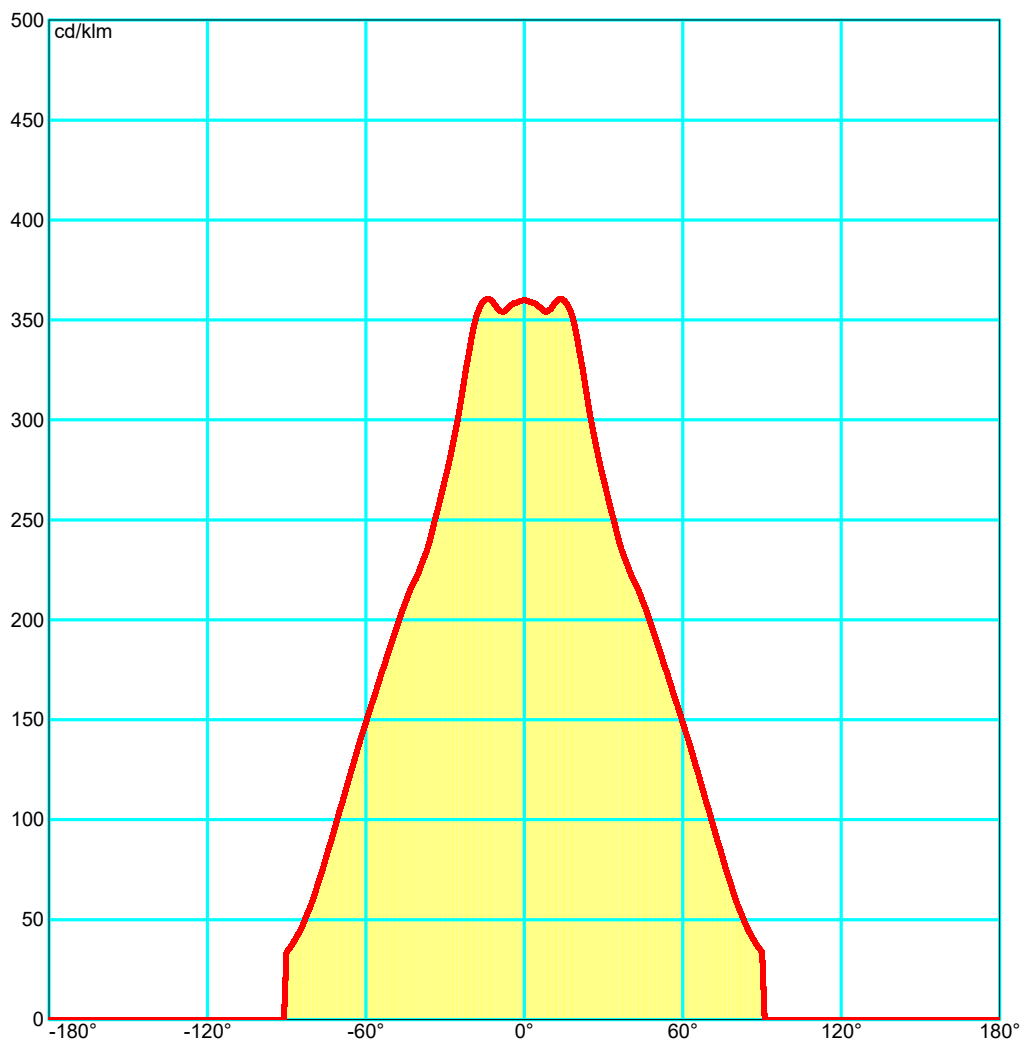
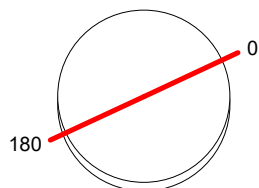
Nombre LEVELS

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Diam=215mm

Semiplanos C

180.0 0.0



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| Flujo Fuente | 965 lm | Valor Máximo | 360.52 cd/klm | Posición | C=0.00 G=14.00 | CG | Rotosimétrico |

UGR
S = 0.250

| Reflectancias | | | | | | | | | | |
|-----------------------|------|------|------|------|------|--------------------|------|------|------|------|
| Techo/Cavidad | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Paredes | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| PDT | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Dimensiones del Local | | | | | | | | | | |
| Mista Lateral | | | | | | Vista Longitudinal | | | | |
| x=2H y=2H | 24.0 | 25.3 | 24.3 | 25.6 | 25.8 | 24.0 | 25.3 | 24.3 | 25.6 | 25.8 |
| x=2H y=3H | 25.9 | 27.2 | 26.2 | 27.4 | 27.7 | 25.9 | 27.2 | 26.2 | 27.4 | 27.7 |
| x=2H y=4H | 26.8 | 28.0 | 27.1 | 28.2 | 28.5 | 26.8 | 28.0 | 27.1 | 28.2 | 28.5 |
| x=2H y=6H | 27.6 | 28.7 | 28.0 | 29.0 | 29.4 | 27.6 | 28.7 | 28.0 | 29.0 | 29.4 |
| x=2H y=8H | 28.0 | 29.1 | 28.4 | 29.4 | 29.7 | 28.0 | 29.1 | 28.4 | 29.4 | 29.7 |
| x=2H y=12H | 28.5 | 29.5 | 28.8 | 29.8 | 30.1 | 28.5 | 29.5 | 28.8 | 29.8 | 30.1 |
| x=4H y=2H | 24.8 | 26.0 | 25.1 | 26.2 | 26.5 | 24.8 | 26.0 | 25.1 | 26.2 | 26.5 |
| x=4H y=3H | 26.9 | 27.9 | 27.3 | 28.2 | 28.6 | 26.9 | 27.9 | 27.3 | 28.2 | 28.6 |
| x=4H y=4H | 27.9 | 28.8 | 28.3 | 29.2 | 29.6 | 27.9 | 28.8 | 28.3 | 29.2 | 29.6 |
| x=4H y=6H | 28.9 | 29.7 | 29.3 | 30.1 | 30.5 | 28.9 | 29.7 | 29.3 | 30.1 | 30.5 |
| x=4H y=8H | 29.4 | 30.2 | 29.9 | 30.6 | 31.0 | 29.4 | 30.2 | 29.9 | 30.6 | 31.0 |
| x=4H y=12H | 30.0 | 30.6 | 30.4 | 31.1 | 31.5 | 30.0 | 30.6 | 30.4 | 31.1 | 31.5 |
| x=8H y=4H | 28.4 | 29.1 | 28.8 | 29.5 | 29.9 | 28.4 | 29.1 | 28.8 | 29.5 | 29.9 |
| x=8H y=6H | 29.6 | 30.2 | 30.0 | 30.6 | 31.1 | 29.6 | 30.2 | 30.0 | 30.6 | 31.1 |
| x=8H y=8H | 30.2 | 30.8 | 30.7 | 31.2 | 31.7 | 30.2 | 30.8 | 30.7 | 31.2 | 31.7 |
| x=8H y=12H | 31.0 | 31.4 | 31.5 | 31.9 | 32.4 | 31.0 | 31.4 | 31.5 | 31.9 | 32.4 |
| x=12H y=4H | 28.4 | 29.1 | 28.9 | 29.5 | 30.0 | 28.4 | 29.1 | 28.9 | 29.5 | 30.0 |
| x=12H y=6H | 29.7 | 30.3 | 30.2 | 30.7 | 31.2 | 29.7 | 30.3 | 30.2 | 30.7 | 31.2 |
| x=12H y=8H | 30.5 | 30.9 | 31.0 | 31.4 | 31.9 | 30.5 | 30.9 | 31.0 | 31.4 | 31.9 |

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Flujo Total=965.00 Flujo Luminaria=965.00

| | | | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|
| RI | 0.60 | 0.80 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 | 10.00 | 20.00 |
| DRR | 0.29 | 0.37 | 0.44 | 0.51 | 0.56 | 0.65 | 0.70 | 0.75 | 0.80 | 0.83 | 0.91 | 0.95 |
| RC | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

Flujo Zonal por 1000 Lúmenes

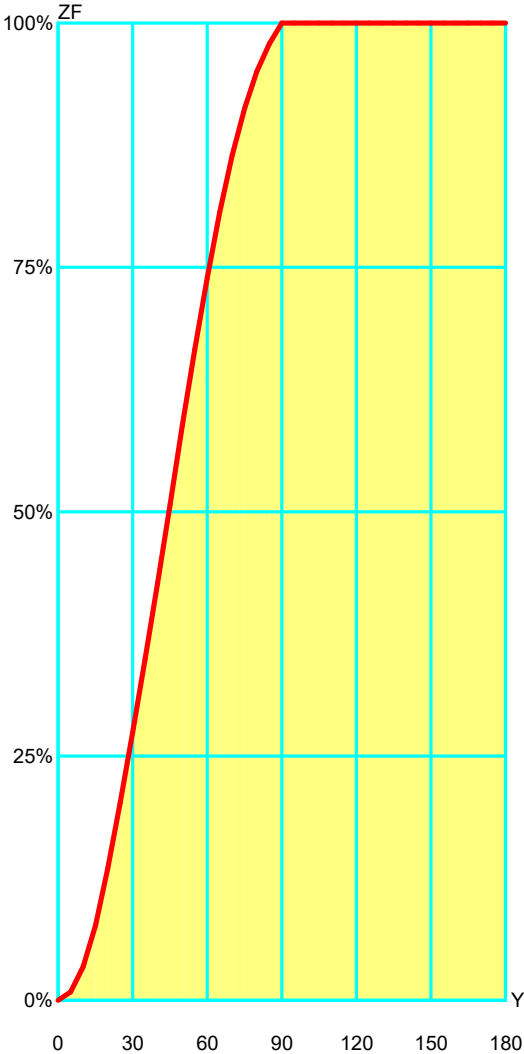
| | | | | | | | | | | | | | | | | | | |
|-------|----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| Y° | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| ZF(Y) | 34 | 135 | 274 | 427 | 588 | 739 | 865 | 951 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

Códigos de Flujo C.I.E.

45 74 92 100 100

C.I.E. 5/5/5/5/6/6/6/6/6/6/6
D DIN 5040 A30
F UTE 1.00 E
B NBN BZ 5
RN 0.00000 %
BLF 1.0

LOR 100.00000 %
ULOR 0.00000 %
DLOR 100.00000 %
UFF 0.00000 %
DFF 100.00000 %
FFR 0.00000 %



| Flujo Zonal | | | | |
|-------------|-------|---------|-----------|----------|
| Gamma ° | Flujo | Suma lm | Flujo [%] | Suma [%] |
| 0° | 0.00 | 0.00 | 0.00% | 0.00 % |
| 5° | 8.57 | 8.57 | 0.86 % | 0.86 % |
| 10° | 25.40 | 33.97 | 2.54 % | 3.40 % |
| 15° | 42.61 | 76.58 | 4.26 % | 7.66 % |
| 20° | 58.09 | 134.67 | 5.81 % | 13.47 % |
| 25° | 67.31 | 201.98 | 6.73 % | 20.20 % |
| 30° | 72.08 | 274.06 | 7.21 % | 27.41 % |
| 35° | 75.54 | 349.60 | 7.55 % | 34.96 % |
| 40° | 77.67 | 427.27 | 7.77 % | 42.73 % |
| 45° | 80.17 | 507.44 | 8.02 % | 50.74 % |
| 50° | 80.49 | 587.93 | 8.05 % | 58.79 % |
| 55° | 77.99 | 665.92 | 7.80 % | 66.59 % |
| 60° | 73.43 | 739.35 | 7.34 % | 73.93 % |
| 65° | 66.96 | 806.31 | 6.70 % | 80.63 % |
| 70° | 58.35 | 864.65 | 5.83 % | 86.47 % |
| 75° | 48.31 | 912.97 | 4.83 % | 91.30 % |
| 80° | 37.72 | 950.69 | 3.77 % | 95.07 % |
| 85° | 28.17 | 978.86 | 2.82 % | 97.89 % |
| 90° | 21.14 | 1000.00 | 2.11 % | 100.00 % |
| 95° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 100° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 105° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 110° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 115° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 120° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 125° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 130° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 135° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 140° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 145° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 150° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 155° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 160° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 165° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 170° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 175° | 0.00 | 1000.00 | 0.00 % | 100.00 % |
| 180° | 0.00 | 1000.00 | 0.00 % | 100.00 % |

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Utilización CIE

| Montaje | Directo | | | Normalización | | | Normalizados | | | Raz. de Susp. | | | 1/3 | | | CIE Estándar | | | | | | | |
|---------|---------|------|------|---------------|------|------|--------------|------|------|---------------|------|------|------|------|------|--------------|------|------|------|------|------|------|------|
| Techo | | | | | | | | | | | | | | | | | | | | | | | |
| K | 8873 | 8773 | 8871 | 8771 | 7773 | 7771 | 7753 | 7553 | 7751 | 7551 | 7731 | 7331 | 7711 | 7111 | 5551 | 5531 | 5331 | 5511 | 5111 | 3331 | 3311 | 1111 | 0000 |
| 0.60 | 219 | 197 | 173 | 156 | 187 | 149 | 112 | 95 | 88 | 75 | 47 | 35 | 17 | 12 | 70 | 38 | 33 | 14 | 11 | 32 | 12 | 10 | 0 |
| 0.80 | 254 | 233 | 187 | 172 | 222 | 164 | 141 | 123 | 102 | 89 | 57 | 45 | 23 | 17 | 84 | 47 | 43 | 20 | 16 | 41 | 17 | 15 | 0 |
| 1.00 | 278 | 259 | 190 | 178 | 246 | 170 | 164 | 147 | 109 | 98 | 64 | 53 | 29 | 22 | 92 | 55 | 50 | 25 | 21 | 48 | 22 | 19 | 0 |
| 1.25 | 299 | 282 | 189 | 179 | 268 | 172 | 188 | 171 | 115 | 105 | 71 | 60 | 35 | 28 | 99 | 61 | 57 | 31 | 27 | 54 | 28 | 25 | 0 |
| 1.50 | 314 | 298 | 186 | 177 | 284 | 171 | 207 | 190 | 118 | 109 | 76 | 66 | 41 | 34 | 103 | 67 | 63 | 37 | 33 | 60 | 33 | 30 | 0 |
| 2.00 | 332 | 319 | 176 | 170 | 304 | 164 | 235 | 220 | 119 | 113 | 82 | 74 | 50 | 43 | 107 | 74 | 70 | 46 | 42 | 67 | 42 | 39 | 0 |
| 2.50 | 344 | 333 | 168 | 163 | 318 | 158 | 256 | 242 | 120 | 114 | 86 | 79 | 58 | 51 | 108 | 79 | 76 | 53 | 49 | 73 | 49 | 46 | 0 |
| 3.00 | 352 | 342 | 161 | 157 | 327 | 153 | 271 | 259 | 119 | 114 | 89 | 83 | 63 | 57 | 109 | 83 | 80 | 59 | 55 | 77 | 55 | 52 | 0 |
| 4.00 | 362 | 355 | 152 | 149 | 340 | 146 | 293 | 283 | 118 | 115 | 94 | 88 | 71 | 66 | 110 | 88 | 85 | 67 | 64 | 82 | 63 | 60 | 0 |
| 5.00 | 369 | 363 | 146 | 144 | 348 | 141 | 308 | 299 | 117 | 115 | 96 | 92 | 77 | 72 | 110 | 91 | 89 | 73 | 70 | 86 | 69 | 66 | 0 |
| 10.00 | 383 | 380 | 131 | 130 | 364 | 127 | 341 | 335 | 114 | 113 | 102 | 100 | 90 | 87 | 110 | 98 | 97 | 87 | 85 | 94 | 84 | 81 | 0 |
| 20.00 | 389 | 388 | 121 | 120 | 372 | 119 | 359 | 356 | 112 | 111 | 105 | 104 | 98 | 97 | 108 | 102 | 101 | 95 | 94 | 99 | 93 | 90 | 0 |

Pared

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| K | 8873 | 8773 | 8871 | 8771 | 7773 | 7771 | 7753 | 7553 | 7751 | 7551 | 7731 | 7331 | 7711 | 7111 | 5551 | 5531 | 5331 | 5511 | 5111 | 3331 | 3311 | 1111 | 0000 |
| 0.60 | 473 | 461 | 415 | 407 | 455 | 402 | 358 | 350 | 325 | 319 | 272 | 268 | 234 | 232 | 316 | 268 | 267 | 233 | 232 | 266 | 232 | 232 | 212 |
| 0.80 | 537 | 524 | 459 | 451 | 515 | 445 | 419 | 410 | 371 | 365 | 318 | 313 | 279 | 276 | 361 | 313 | 311 | 277 | 276 | 310 | 276 | 275 | 251 |
| 1.00 | 581 | 568 | 486 | 478 | 557 | 471 | 464 | 454 | 403 | 397 | 352 | 346 | 312 | 309 | 391 | 345 | 343 | 309 | 308 | 341 | 308 | 306 | 279 |
| 1.25 | 622 | 609 | 508 | 501 | 595 | 494 | 508 | 497 | 431 | 425 | 383 | 377 | 344 | 341 | 418 | 376 | 374 | 341 | 339 | 370 | 339 | 337 | 307 |
| 1.50 | 652 | 641 | 523 | 518 | 624 | 510 | 542 | 531 | 453 | 447 | 407 | 401 | 370 | 366 | 439 | 399 | 397 | 366 | 364 | 393 | 363 | 360 | 328 |
| 2.00 | 687 | 677 | 536 | 531 | 658 | 523 | 586 | 575 | 475 | 471 | 436 | 430 | 402 | 398 | 462 | 427 | 425 | 397 | 395 | 420 | 393 | 389 | 353 |
| 2.50 | 710 | 702 | 543 | 540 | 680 | 531 | 616 | 606 | 490 | 486 | 455 | 450 | 424 | 420 | 476 | 446 | 444 | 419 | 416 | 438 | 414 | 409 | 370 |
| 3.00 | 726 | 718 | 547 | 544 | 695 | 536 | 638 | 628 | 500 | 496 | 468 | 464 | 440 | 436 | 486 | 458 | 456 | 434 | 431 | 450 | 428 | 423 | 382 |
| 4.00 | 754 | 748 | 559 | 557 | 723 | 549 | 675 | 666 | 519 | 517 | 493 | 489 | 469 | 465 | 506 | 482 | 481 | 461 | 459 | 473 | 455 | 449 | 405 |
| 5.00 | 775 | 770 | 570 | 568 | 744 | 560 | 702 | 695 | 535 | 533 | 512 | 509 | 491 | 487 | 521 | 501 | 500 | 483 | 481 | 492 | 475 | 469 | 423 |
| 10.00 | 830 | 827 | 601 | 600 | 797 | 593 | 772 | 768 | 578 | 577 | 564 | 562 | 550 | 548 | 565 | 552 | 551 | 540 | 539 | 542 | 531 | 522 | 472 |
| 20.00 | 864 | 862 | 622 | 621 | 831 | 614 | 817 | 814 | 606 | 605 | 598 | 596 | 590 | 588 | 593 | 586 | 585 | 579 | 578 | 574 | 568 | 558 | 506 |

P.Trab.

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| K | 8873 | 8773 | 8871 | 8771 | 7773 | 7771 | 7753 | 7553 | 7751 | 7551 | 7731 | 7331 | 7711 | 7111 | 5551 | 5531 | 5331 | 5511 | 5111 | 3331 | 3311 | 1111 | 0000 |
| 0.60 | 586 | 573 | 547 | 537 | 565 | 531 | 448 | 440 | 432 | 426 | 364 | 359 | 315 | 313 | 422 | 360 | 358 | 314 | 313 | 357 | 313 | 312 | 295 |
| 0.80 | 690 | 675 | 635 | 625 | 663 | 617 | 544 | 534 | 519 | 512 | 449 | 443 | 397 | 394 | 506 | 443 | 440 | 394 | 393 | 438 | 393 | 391 | 373 |
| 1.00 | 771 | 756 | 703 | 694 | 741 | 683 | 625 | 613 | 591 | 583 | 521 | 514 | 468 | 464 | 575 | 513 | 510 | 464 | 462 | 507 | 462 | 460 | 441 |
| 1.25 | 849 | 834 | 765 | 756 | 814 | 745 | 703 | 690 | 659 | 651 | 592 | 584 | 539 | 534 | 640 | 582 | 579 | 534 | 532 | 574 | 531 | 528 | 509 |
| 1.50 | 907 | 892 | 810 | 802 | 869 | 790 | 765 | 751 | 710 | 703 | 647 | 639 | 595 | 589 | 690 | 635 | 632 | 589 | 586 | 626 | 584 | 581 | 563 |
| 2.00 | 992 | 979 | 874 | 868 | 951 | 855 | 859 | 845 | 787 | 781 | 731 | 723 | 684 | 677 | 766 | 717 | 714 | 676 | 672 | 706 | 669 | 664 | 647 |
| 2.50 | 1000 | 1000 | 914 | 909 | 1000 | 896 | 923 | 909 | 837 | 832 | 788 | 780 | 745 | 738 | 815 | 772 | 769 | 735 | 731 | 760 | 727 | 720 | 704 |
| 3.00 | 1000 | 1000 | 942 | 938 | 1000 | 924 | 970 | 957 | 873 | 868 | 829 | 822 | 789 | 783 | 850 | 812 | 809 | 778 | 775 | 798 | 769 | 760 | 745 |
| 4.00 | 1000 | 1000 | 976 | 973 | 1000 | 959 | 1000 | 1000 | 918 | 913 | 880 | 874 | 847 | 840 | 894 | 863 | 860 | 834 | 830 | 847 | 822 | 812 | 798 |
| 5.00 | 1000 | 1000 | 996 | 994 | 1000 | 980 | 1000 | 1000 | 945 | 942 | 913 | 908 | 884 | 878 | 922 | 894 | 892 | 869 | 866 | 878 | 856 | 844 | 831 |
| 10.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 986 | 983 | 968 | 964 | 981 | 965 | 964 | 950 | 948 | 946 | 933 | 918 | 906 |
| 20.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 998 | 996 | 986 | 979 | 961 | 949 |

LM53 SHR C0-C180: 1.132 SHR C90-C270: 1.132 SHR Superficial: 1.272

LEDS C4[®]

Luminaria

Código 10-A002-08-08_4000K
Nombre LEVELS

Ensayo

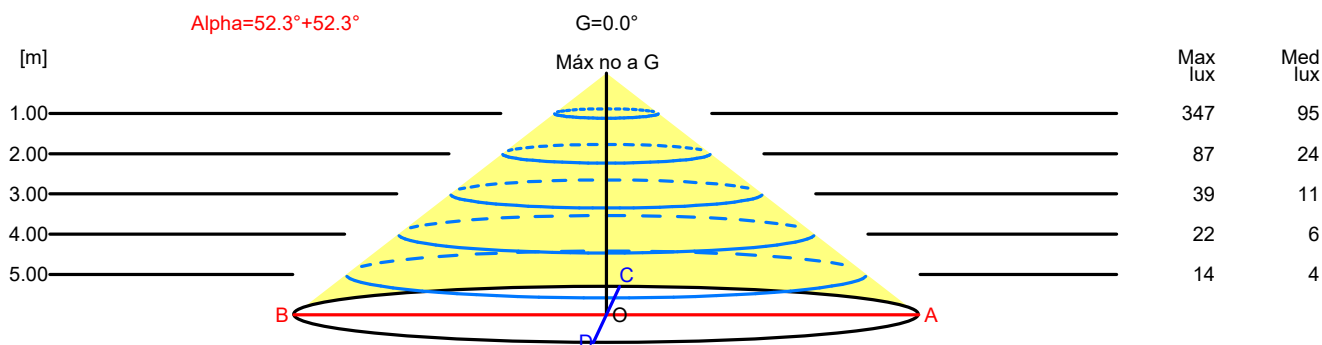
Código 10-A002-08-08_4000K
Nombre LEVELS

| | | | | | | | |
|-----------------|--------|--------------------|---------------|----------|----------------|------------|---------------|
| Flujo Luminaria | 965 lm | Potencia Luminaria | 14.7 W | Eficacia | 65.646 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 965 lm | Valor Máximo | 360.52 cd/klm | Posición | C=0.00 G=14.00 | CG | Rotosimétrico |

Apertura a 50.00 % de Max Intensidad

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| H[m] | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 | H[m] | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 |
| OA | 1.29 | 2.59 | 3.88 | 5.18 | 6.47 | OC | 1.29 | 2.59 | 3.88 | 5.18 | 6.47 |
| OB | 1.29 | 2.59 | 3.88 | 5.18 | 6.47 | OD | 1.29 | 2.59 | 3.88 | 5.18 | 6.47 |

| | 0 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 |
|----|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| OA | 347.30 | 344.88 | 347.25 | 291.30 | 234.94 | 201.47 | 163.34 | 122.30 | 78.40 | 42.72 |
| OB | 347.30 | 344.88 | 347.25 | 291.30 | 234.94 | 201.47 | 163.34 | 122.30 | 78.40 | 42.72 |
| OC | 347.30 | 344.88 | 347.25 | 291.30 | 234.94 | 201.47 | 163.34 | 122.30 | 78.40 | 42.72 |
| OD | 347.30 | 344.88 | 347.25 | 291.30 | 234.94 | 201.47 | 163.34 | 122.30 | 78.40 | 42.72 |



| H[m] | D[m] | Max lux | Med lux | Alpha=52.3°+52.3° | G=0.0 Máx no a G |
|------|-------|---------|---------|-------------------|---------------------|
| 1.00 | 2.59 | 347 | 95 | | |
| 2.00 | 5.18 | 87 | 24 | | |
| 3.00 | 7.77 | 39 | 11 | | |
| 4.00 | 10.35 | 22 | 6 | | |
| 5.00 | 12.94 | 14 | 4 | | |

LEDS C4[°]

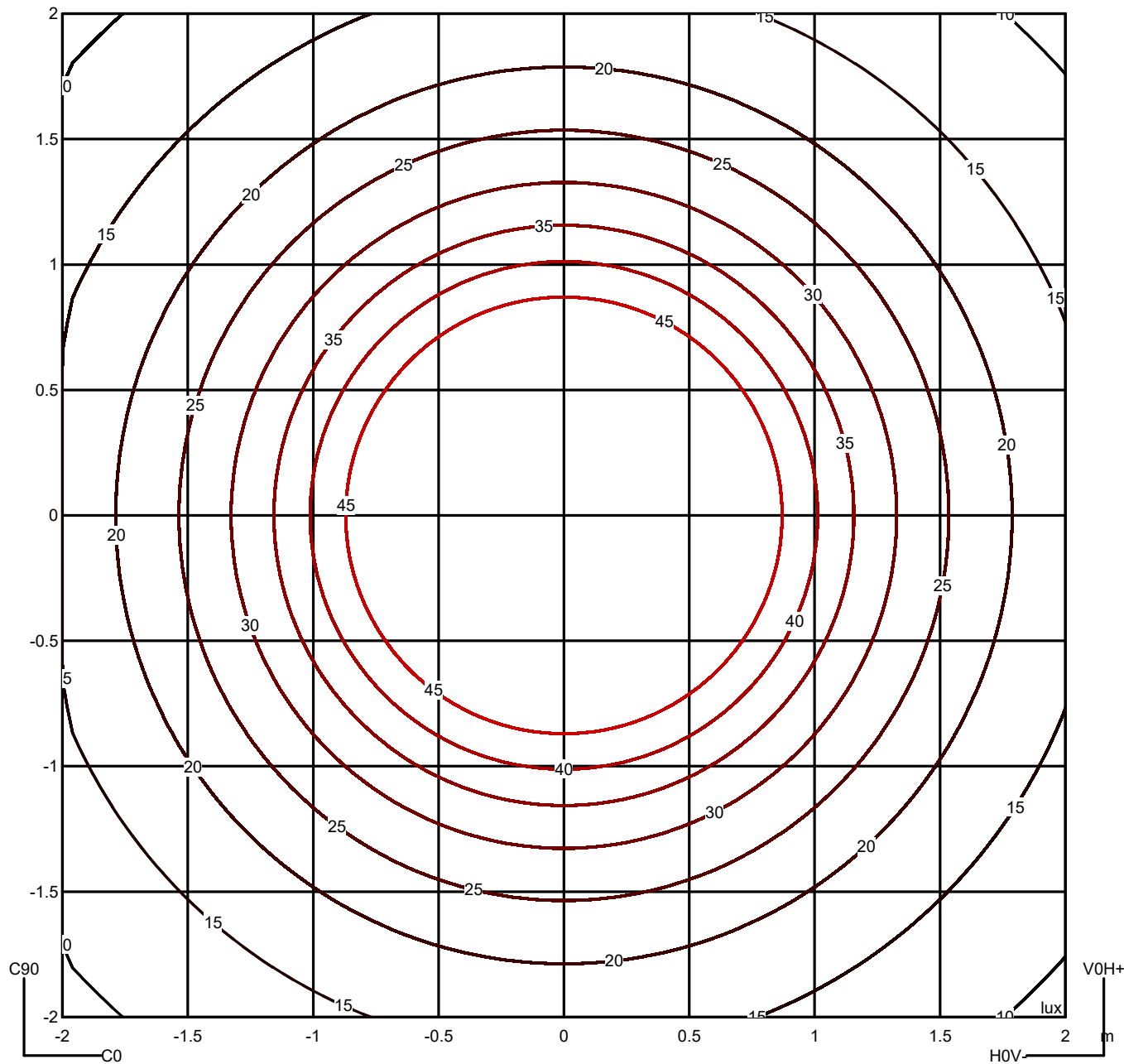
Luminaria

Código 10-A002-08-08_4000K
Nombre LEVELS
Ensayo
Código 10-A002-08-08_4000K
Nombre LEVELS

| | | | | | | | |
|-----------------|--------|--------------------|---------------|----------|----------------|------------|---------------|
| Flujo Luminaria | 965 lm | Potencia Luminaria | 14.7 W | Eficacia | 65.646 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 965 lm | Valor Máximo | 360.52 cd/klm | Posición | C=0.00 G=14.00 | CG | Rotosimétrico |

Isolux (Suelo)

Posición Luminaria X=0.00m Y=0.00m Z=2.50m



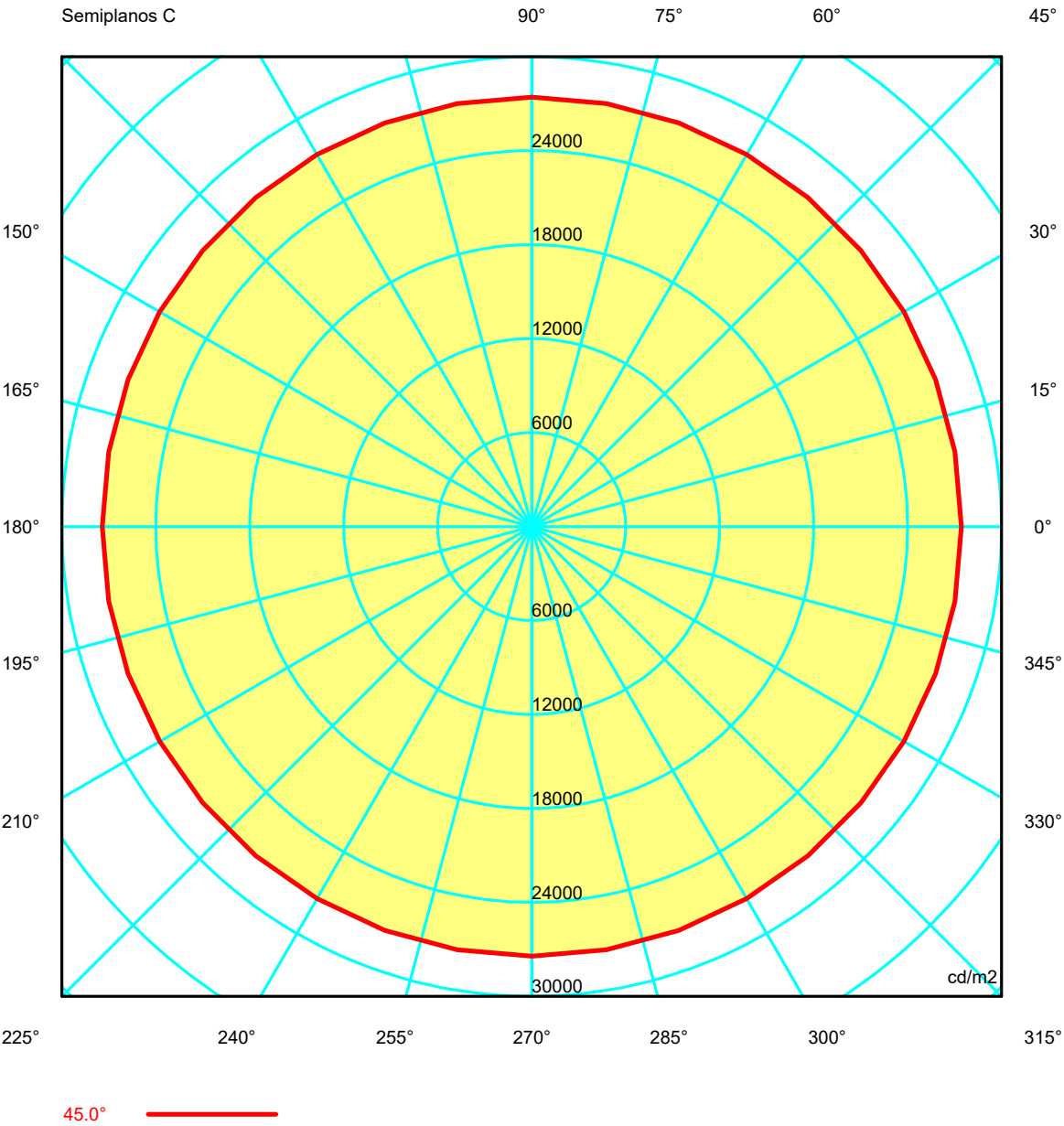
LEDS C4⁺

Luminaria

Código 10-A002-08-08_4000K
Nombre LEVELS
Ensayo
Código 10-A002-08-08_4000K
Nombre LEVELS

| | | | | | | | |
|-----------------|--------|--------------------|---------------|----------|----------------|------------|---------------|
| Flujo Luminaria | 965 lm | Potencia Luminaria | 14.7 W | Eficacia | 65.646 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 965 lm | Valor Máximo | 360.52 cd/klm | Posición | C=0.00 G=14.00 | CG | Rotosimétrico |

Luminancia



LEDS C4[®]

Luminaria

Código 10-A002-08-08_4000K

Nombre LEVELS

Ensayo

Código 10-A002-08-08_4000K

Nombre LEVELS

| | | | | | | | |
|-----------------|--------|--------------------|---------------|----------|----------------|------------------|---------|
| Flujo Luminaria | 965 lm | Potencia Luminaria | 14.7 W | Eficacia | 65.646 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 965 lm | Valor Máximo | 360.52 cd/klm | Posición | C=0.00 G=14.00 | CG Rotosimétrico | |

Luminance cd/m2

Tabla 1/3

| | C 0.00 | C 10.00 | C 20.00 | C 30.00 | C 40.00 | C 50.00 | C 60.00 | C 70.00 | C 80.00 | C 90.00 | C 100.00 | C 110.00 | C 120.00 |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| G 0.0 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 |
| G 5.0 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 |
| G 10.0 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 |
| G 15.0 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 |
| G 20.0 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 |
| G 25.0 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 |
| G 30.0 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 |
| G 35.0 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 |
| G 40.0 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 |
| G 45.0 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 |
| G 50.0 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 |
| G 55.0 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 |
| G 60.0 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 |
| G 65.0 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 |
| G 70.0 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 |
| G 75.0 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 |
| G 80.0 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 |
| G 85.0 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 |
| G 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

LEDS C4⁺

Luminaria

Código 10-A002-08-08_4000K
Nombre LEVELS

Ensayo

Código 10-A002-08-08_4000K
Nombre LEVELS

| Flujo Luminaria | | 965 lm | | Potencia Luminaria | | 14.7 W | | Eficacia | | 65.646 lm/W | | Eficiencia | | 100.00% | | |
|-----------------|----------|----------|----------|--------------------|----------|---------------|----------|----------|----------|----------------|----------|------------------|----------|-----------|----------|----------|
| Flujo Fuente | | 965 lm | | Valor Máximo | | 360.52 cd/klm | | Posición | | C=0.00 G=14.00 | | CG Rotosimétrico | | | | |
| Luminance cd/m2 | | | | | | | | | | | | | | Tabla 2/3 | | |
| | | C 130.00 | C 140.00 | C 150.00 | C 160.00 | C 170.00 | C 180.00 | C 190.00 | C 200.00 | C 210.00 | C 220.00 | C 230.00 | C 240.00 | C 250.00 | | |
| G 0.0 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 |
| G 5.0 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 |
| G 10.0 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 |
| G 15.0 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 |
| G 20.0 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 |
| G 25.0 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 |
| G 30.0 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 |
| G 35.0 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 |
| G 40.0 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 |
| G 45.0 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 |
| G 50.0 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 |
| G 55.0 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 |
| G 60.0 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 |
| G 65.0 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 |
| G 70.0 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 |
| G 75.0 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 |
| G 80.0 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 |
| G 85.0 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 |
| G 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

LEDS C4⁺

Luminaria

Código 10-A002-08-08_4000K
Nombre LEVELS

Ensayo

Código 10-A002-08-08_4000K
Nombre LEVELS

| | | | | | | | |
|-----------------|--------|--------------------|---------------|----------|----------------|------------------|---------|
| Flujo Luminaria | 965 lm | Potencia Luminaria | 14.7 W | Eficacia | 65.646 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 965 lm | Valor Máximo | 360.52 cd/klm | Posición | C=0.00 G=14.00 | CG Rotosimétrico | |

Luminance cd/m2 Tabla 3/3

| | C 260.00 | C 270.00 | C 280.00 | C 290.00 | C 300.00 | C 310.00 | C 320.00 | C 330.00 | C 340.00 | C 350.00 |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| G 0.0 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 | 33436.56 |
| G 5.0 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 | 33330.32 |
| G 10.0 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 | 33550.77 |
| G 15.0 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 | 34610.87 |
| G 20.0 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 | 33702.45 |
| G 25.0 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 | 30943.94 |
| G 30.0 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 | 28984.10 |
| G 35.0 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 | 27612.26 |
| G 40.0 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 | 27151.82 |
| G 45.0 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 | 27430.52 |
| G 50.0 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 | 27397.62 |
| G 55.0 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 | 27416.19 |
| G 60.0 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 | 27606.56 |
| G 65.0 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 | 27861.22 |
| G 70.0 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 | 28200.42 |
| G 75.0 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 | 29163.09 |
| G 80.0 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 | 32295.87 |
| G 85.0 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 | 47191.54 |
| G 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

LEDS C4[®]

Luminaria

Código 10-A002-08-08_4000K

Nombre LEVELS

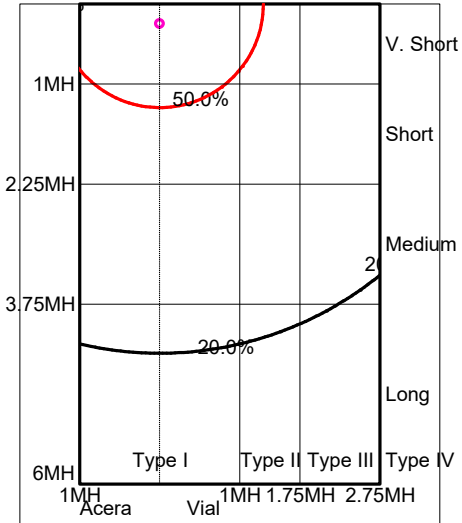
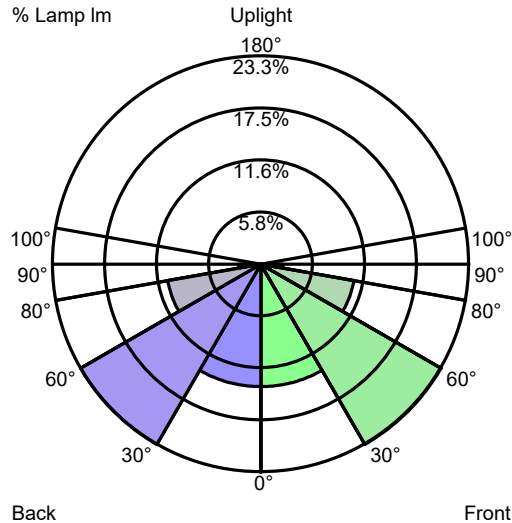
Ensayo

Código 10-A002-08-08_4000K

Nombre LEVELS

| | | | | | | | |
|-----------------|--------|--------------------|---------------|----------|----------------|------------|---------------|
| Flujo Luminaria | 965 lm | Potencia Luminaria | 14.7 W | Eficacia | 65.646 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 965 lm | Valor Máximo | 360.52 cd/klm | Posición | C=0.00 G=14.00 | CG | Rotosimétrico |

US ROAD STANDARDS



| Luminaire Classification System (LCS) | | | |
|---|--------------|----------|-----------------|
| LCS Zone | | Lumens | %Lamp %Lum |
| FL | 0° -- 30° | 132.2 lm | 13.7 % 13.7 % |
| FM | 30° -- 60° | 224.5 lm | 23.3 % 23.3 % |
| FH | 60° -- 80° | 102.0 lm | 10.6 % 10.6 % |
| FVH | 80° -- 90° | 23.8 lm | 2.5 % 2.5 % |
| BL | 0° -- 30° | 132.2 lm | 13.7 % 13.7 % |
| BM | 30° -- 60° | 224.5 lm | 23.3 % 23.3 % |
| BH | 60° -- 80° | 102.0 lm | 10.6 % 10.6 % |
| BVH | 80° -- 90° | 23.8 lm | 2.5 % 2.5 % |
| UL | 90° -- 100° | 0.0 lm | 0.0 % 0.0 % |
| UH | 100° -- 180° | 0.0 lm | 0.0 % 0.0 % |
| TOTALS | | 965.0 lm | 100.0 % 100.0 % |
| BUG B1 U0 G1 Type V Very Short Quadrilateral Symmetry | | | |