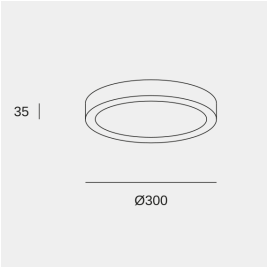
# Easy Round Surface Ø300mm

LedsC4 Team

## TC-0415-BLA

Superficie de Techo Easy Round Surface Ø300mm IP23 LED 22W 3000K ON-OFF Blanco 1755lm






### CARACTERÍSTICAS TÉCNICAS

IP23

**Potencia total luminaria :** 24W

**Lúmenes reales :** 1755

**Lúmenes nominales :** 2720

**Lm / W reales :** 73

**Ángulo Ópticas / Reflector :** HORIZONTAL 109º

**Material de la estructura :** Aluminio

**Acabado estructura :** Blanco

**Material del difusor :** Acrílico

**Acabado difusor :** Opal

**Voltaje / Frecuencia :** 100-240V ~ 50/60Hz

**Protocolo de regulación :** ON-OFF

**Power Factor :** 0.90

**Vida útil :** 36.000h L70B30

**Garantía :** 2 Años

Luminaria fácilmente reciclable

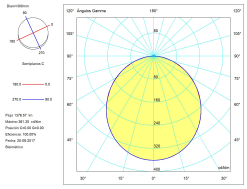
### CARACTERÍSTICAS LUMINOTÉCNICAS

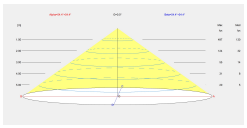
**CRI:** 80

**MacAdam steps:** 3

**Riesgo fotobiológico:** RG1

| Portalámparas | Cantidad | Potencia fuente de luz (W) | Temperatura de color correlacionada (CCT) |
|---|---|---|---|
| LED | 1 | 22W | 3000K |





### LOGÍSTICA

**Peso neto (Kg):** 0.7

**Peso embalado (Kg):** 0.89

**Embalaje:** 310mm x 310mm x 45mm

10 Un

La imagen puede no coincidir con la referencia, LEDS C4 se reserva el derecho de modificación de alguno de los componentes que componen el producto. Los datos relativos al flujo, la potencia y la Temperatura de Color están sujetos a una tolerancia de +- 10%.

**Luminaria**
Código TC-0415-BLA
Nombre EASY
**Ensayo**
Código CL116A17F314G
Nombre EASY

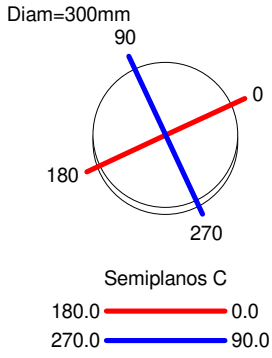
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Flujo Luminaria | 1755 lm | Potencia Luminaria | 22.8 W | Eficacia | 77.109 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 1755 lm | Valor Máximo | 361.30 cd/klm | Posición | C=0.00 G=0.00 | CG | Bisimétrico |

| | | | |
|---|---|---|---|
| Luminaria Redonda | Diam. 300 mm | Altura | 33 mm |
| Área Luminosa Redonda | Diam. 250 mm | Altura | 0 mm |
| Área Luminosa Horizontal | 0.049087 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° | 0.011875 m2 |
| Sist. de Coorden. | CG | Tipo de Simetría | Bisimétrico |
| Fecha | 25-08-2017 | Máximo Ángulo Gamma | 90 |
| Distancia de Ensayo | 0.00 | Flujo de Ensayo | 1755 lm |
| Operador | Asselum T2 | Tensión Nominal | |
| Temperatura | | Corriente Nominal | |
| Humedad | | Fotocélula | |
| Notas | | | |

**Fuentes de luz de la Luminaria**

| Familia | Código | Nombre | Flujo [lm] | Pot. [W] | Cant. |
|---|---|---|---|---|---|
| | TC-0415-BLA | TC-0415-BLA | 1755.00 | 22.76 | 1 |

| | | | |
|---|---|---|---|
| C.I.E. | 48 79 95 100 100 | D DIN 5040 | A30 |
| F UTE | 1.00 E | B NBN | BZ 4 |




ULOR 0.00 %
DLOR100.00 %
RN 0.00 %

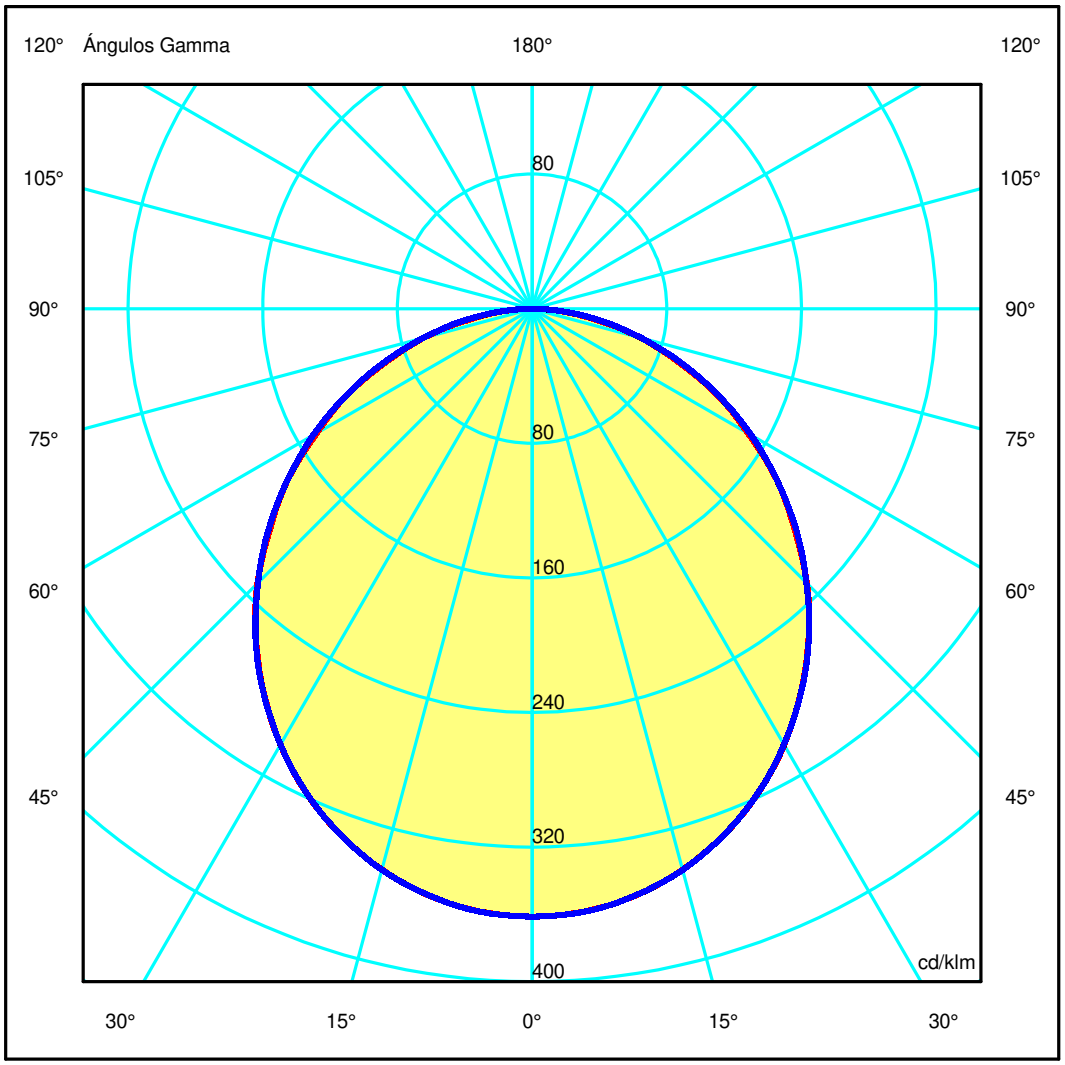


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**Tabla de Intensidad Luminosa cd/klm** **Tabla 1/1**

| | C 0.00 | C 15.00 | C 30.00 | C 45.00 | C 60.00 | C 75.00 | C 90.00 |
|---|---|---|---|---|---|---|---|
| G 0.0 | 361.30 | 361.30 | 361.30 | 361.30 | 361.30 | 361.30 | 361.30 |
| G 5.0 | 359.53 | 359.45 | 359.59 | 359.49 | 359.33 | 359.45 | 359.61 |
| G 10.0 | 354.07 | 354.02 | 354.03 | 353.99 | 354.05 | 353.88 | 353.96 |
| G 15.0 | 345.12 | 345.06 | 345.13 | 344.64 | 344.86 | 345.09 | 345.17 |
| G 20.0 | 332.88 | 332.71 | 332.80 | 332.68 | 332.85 | 332.42 | 332.82 |
| G 25.0 | 317.55 | 317.22 | 317.44 | 316.56 | 317.33 | 317.47 | 317.46 |
| G 30.0 | 299.29 | 298.98 | 298.93 | 298.50 | 299.15 | 298.27 | 299.04 |
| G 35.0 | 278.19 | 277.96 | 278.17 | 277.16 | 277.95 | 278.18 | 278.38 |
| G 40.0 | 255.44 | 254.94 | 255.02 | 254.65 | 255.22 | 254.68 | 255.64 |
| G 45.0 | 230.80 | 230.27 | 230.41 | 229.21 | 230.25 | 230.67 | 230.40 |
| G 50.0 | 203.29 | 204.07 | 204.33 | 203.68 | 204.67 | 203.35 | 204.79 |
| G 55.0 | 177.45 | 176.95 | 177.25 | 175.89 | 176.97 | 177.54 | 177.44 |
| G 60.0 | 147.97 | 149.42 | 149.48 | 149.70 | 149.70 | 148.30 | 150.23 |
| G 65.0 | 121.75 | 121.43 | 121.67 | 120.17 | 121.21 | 121.88 | 122.03 |
| G 70.0 | 92.33 | 93.23 | 93.48 | 93.55 | 94.38 | 92.36 | 94.37 |
| G 75.0 | 67.03 | 66.34 | 66.76 | 65.68 | 66.63 | 67.15 | 67.11 |
| G 80.0 | 39.86 | 40.66 | 41.16 | 41.15 | 41.98 | 40.33 | 42.38 |
| G 85.0 | 18.97 | 18.72 | 19.11 | 18.07 | 18.92 | 19.32 | 19.35 |
| G 90.0 | 1.17 | 1.25 | 1.43 | 1.56 | 1.71 | 1.76 | 1.75 |

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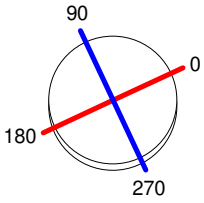
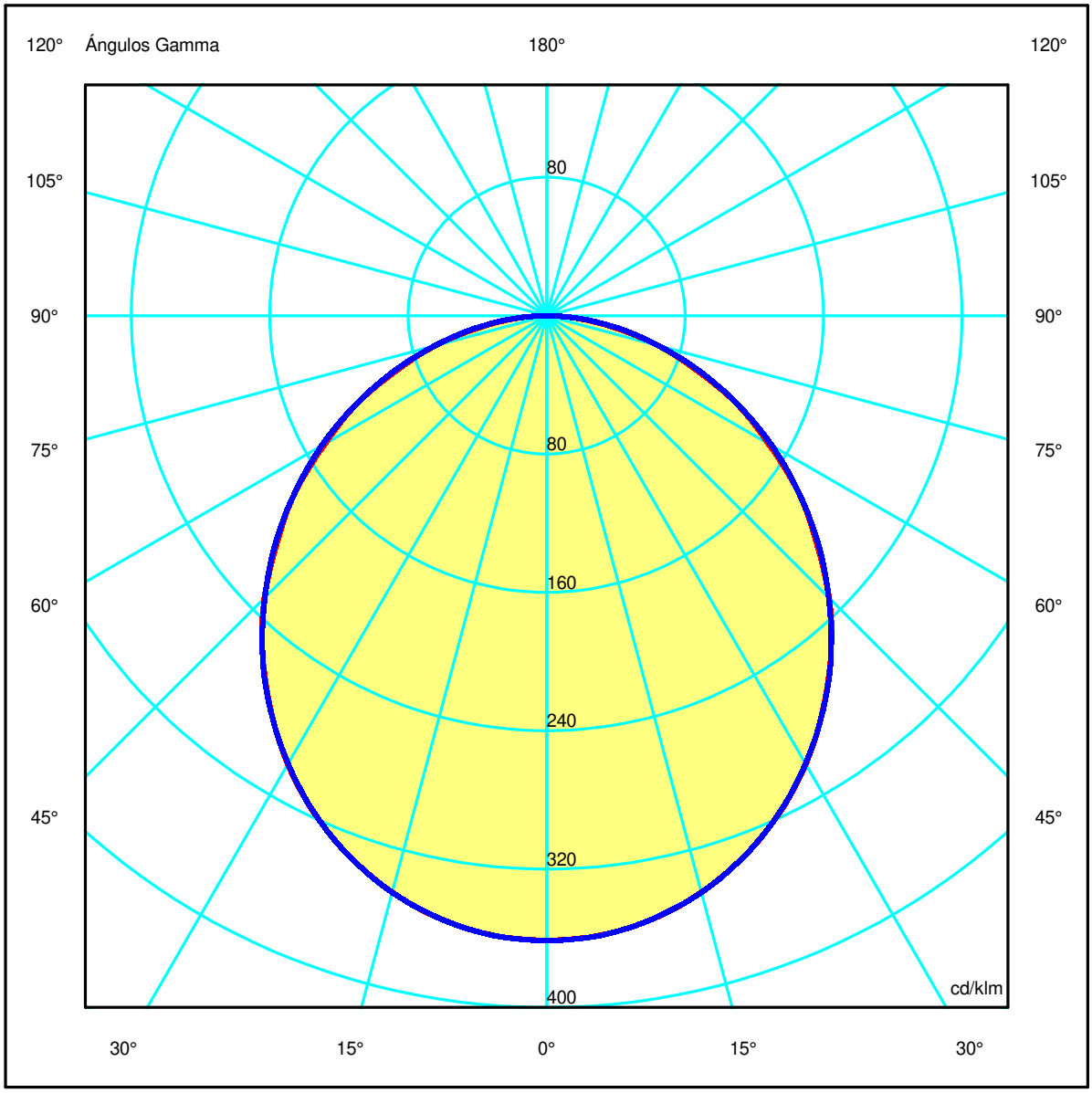
Diam=300mm




Semiplanos C

180.0 0.0
270.0 90.0



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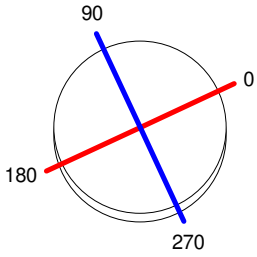
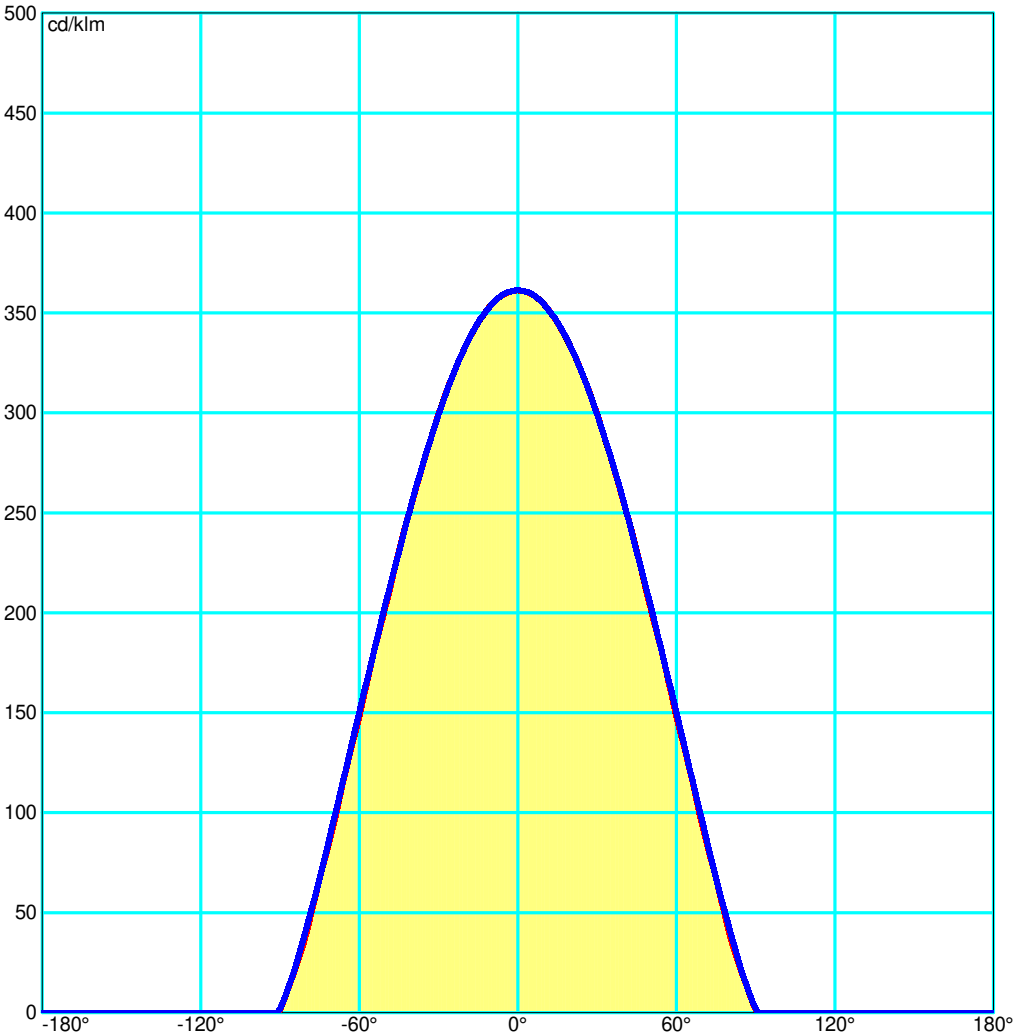



Semiplanos C



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**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 | Vista Lateral | | | | | Vista Longitudinal | | | | |
| x=2H y=2H | 20.9 | 22.2 | 21.2 | 22.5 | 22.7 | 20.9 | 22.2 | 21.2 | 22.5 | 22.7 |
| x=2H y=3H | 22.5 | 23.7 | 22.8 | 23.9 | 24.2 | 22.5 | 23.7 | 22.8 | 23.9 | 24.2 |
| x=2H y=4H | 23.1 | 24.3 | 23.5 | 24.5 | 24.8 | 23.1 | 24.3 | 23.5 | 24.6 | 24.9 |
| x=2H y=6H | 23.6 | 24.6 | 24.0 | 25.0 | 25.3 | 23.6 | 24.7 | 24.0 | 25.0 | 25.3 |
| x=2H y=8H | 23.8 | 24.8 | 24.1 | 25.1 | 25.4 | 23.8 | 24.8 | 24.2 | 25.1 | 25.5 |
| x=2H y=12H | 23.9 | 24.8 | 24.2 | 25.2 | 25.5 | 23.9 | 24.9 | 24.3 | 25.2 | 25.5 |
| x=4H y=2H | 21.6 | 22.7 | 21.9 | 23.0 | 23.3 | 21.6 | 22.7 | 21.9 | 23.0 | 23.3 |
| x=4H y=3H | 23.3 | 24.3 | 23.7 | 24.6 | 25.0 | 23.4 | 24.3 | 23.7 | 24.7 | 25.0 |
| x=4H y=4H | 24.1 | 25.0 | 24.5 | 25.4 | 25.7 | 24.2 | 25.0 | 24.6 | 25.4 | 25.7 |
| x=4H y=6H | 24.7 | 25.5 | 25.2 | 25.9 | 26.3 | 24.8 | 25.5 | 25.2 | 25.9 | 26.3 |
| x=4H y=8H | 25.0 | 25.6 | 25.4 | 26.0 | 26.5 | 25.0 | 25.7 | 25.4 | 26.1 | 26.5 |
| x=4H y=12H | 25.1 | 25.8 | 25.6 | 26.2 | 26.6 | 25.2 | 25.8 | 25.6 | 26.2 | 26.6 |
| x=8H y=4H | 24.4 | 25.1 | 24.9 | 25.5 | 26.0 | 24.5 | 25.1 | 24.9 | 25.5 | 26.0 |
| x=8H y=6H | 25.2 | 25.8 | 25.7 | 26.2 | 26.7 | 25.2 | 25.8 | 25.7 | 26.2 | 26.7 |
| x=8H y=8H | 25.5 | 26.0 | 26.0 | 26.5 | 26.9 | 25.6 | 26.0 | 26.0 | 26.5 | 27.0 |
| x=8H y=12H | 25.7 | 26.2 | 26.2 | 26.6 | 27.1 | 25.8 | 26.2 | 26.3 | 26.7 | 27.2 |
| x=12H y=4H | 24.5 | 25.1 | 24.9 | 25.5 | 25.9 | 24.5 | 25.1 | 24.9 | 25.5 | 26.0 |
| x=12H y=6H | 25.3 | 25.8 | 25.8 | 26.2 | 26.7 | 25.3 | 25.8 | 25.8 | 26.3 | 26.7 |
| x=12H y=8H | 25.6 | 26.1 | 26.1 | 26.5 | 27.0 | 25.7 | 26.1 | 26.1 | 26.5 | 27.1 |

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Flujo Total=1755.00 Flujo Luminaria=1755.00

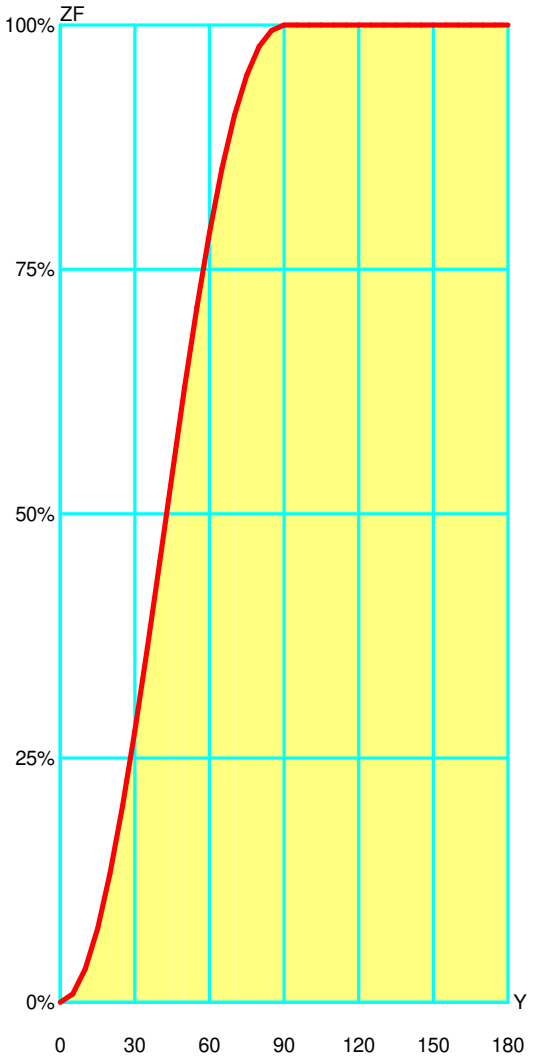
| RI | 0.60 | 0.80 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 | 10.00 | 20.00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DRR | 0.31 | 0.39 | 0.47 | 0.54 | 0.59 | 0.68 | 0.74 | 0.78 | 0.83 | 0.86 | 0.93 | 0.96 |
| RC | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |

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 | 131 | 278 | 451 | 629 | 787 | 907 | 978 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

Códigos de Flujo C.I.E.
48 79 95 100 100

| | | | |
|---|---|---|---|
| C.I.E. | 5/5/5/5/5/5/5/5/5/5/4 | LOR | 100.00000 % |
| D DIN 5040 | A30 | ULOR | 0.00000 % |
| F UTE | 1.00 E | DLOR | 100.00000 % |
| B NBN | BZ 4 | UFF | 0.00000 % |
| RN | 0.00000 % | DFF | 100.00000 % |
| BLF | 1.0 | FFR | 0.00000 % |




| Flujo Zonal | | | | |
|---|---|---|---|---|
| Gamma ° | Flujo | Suma lm | Flujo [%] | Suma [%] |
| 0° | 0.00 | 0.00 | 0.00% | 0.00 % |
| 5° | 8.62 | 8.62 | 0.86 % | 0.86 % |
| 10° | 25.52 | 34.14 | 2.55 % | 3.41 % |
| 15° | 41.46 | 75.60 | 4.15 % | 7.56 % |
| 20° | 55.85 | 131.46 | 5.59 % | 13.15 % |
| 25° | 68.17 | 199.63 | 6.82 % | 19.96 % |
| 30° | 77.97 | 277.59 | 7.80 % | 27.76 % |
| 35° | 84.94 | 362.53 | 8.49 % | 36.25 % |
| 40° | 88.92 | 451.45 | 8.89 % | 45.14 % |
| 45° | 89.85 | 541.30 | 8.98 % | 54.13 % |
| 50° | 87.75 | 629.04 | 8.77 % | 62.90 % |
| 55° | 82.85 | 711.89 | 8.28 % | 71.19 % |
| 60° | 75.42 | 787.31 | 7.54 % | 78.73 % |
| 65° | 65.80 | 853.11 | 6.58 % | 85.31 % |
| 70° | 54.38 | 907.49 | 5.44 % | 90.75 % |
| 75° | 41.82 | 949.31 | 4.18 % | 94.93 % |
| 80° | 28.81 | 978.12 | 2.88 % | 97.81 % |
| 85° | 16.29 | 994.41 | 1.63 % | 99.44 % |
| 90° | 5.59 | 1000.00 | 0.56 % | 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 | 217 | 195 | 170 | 154 | 185 | 147 | 111 | 95 | 87 | 74 | 46 | 35 | 17 | 12 | 69 | 37 | 33 | 14 | 11 | 31 | 12 | 10 | 0 |
| 0.80 | 251 | 230 | 182 | 168 | 219 | 160 | 140 | 122 | 99 | 87 | 56 | 45 | 23 | 17 | 82 | 47 | 42 | 20 | 16 | 40 | 17 | 15 | 0 |
| 1.00 | 274 | 255 | 184 | 172 | 242 | 165 | 163 | 146 | 106 | 96 | 63 | 52 | 29 | 22 | 90 | 54 | 49 | 25 | 21 | 47 | 22 | 20 | 0 |
| 1.25 | 294 | 277 | 181 | 172 | 263 | 165 | 187 | 169 | 111 | 102 | 69 | 59 | 36 | 29 | 95 | 60 | 56 | 31 | 27 | 53 | 28 | 25 | 0 |
| 1.50 | 308 | 293 | 177 | 169 | 279 | 163 | 205 | 189 | 114 | 105 | 74 | 64 | 42 | 34 | 99 | 65 | 61 | 37 | 33 | 58 | 33 | 30 | 0 |
| 2.00 | 326 | 313 | 167 | 161 | 299 | 156 | 234 | 219 | 114 | 108 | 80 | 72 | 51 | 44 | 102 | 72 | 69 | 47 | 42 | 66 | 43 | 39 | 0 |
| 2.50 | 337 | 327 | 158 | 154 | 312 | 149 | 255 | 241 | 114 | 109 | 84 | 77 | 58 | 52 | 104 | 77 | 74 | 54 | 50 | 71 | 50 | 47 | 0 |
| 3.00 | 345 | 336 | 151 | 148 | 321 | 144 | 270 | 258 | 114 | 109 | 87 | 81 | 64 | 58 | 104 | 81 | 78 | 60 | 56 | 75 | 56 | 52 | 0 |
| 4.00 | 356 | 349 | 143 | 140 | 334 | 137 | 292 | 282 | 113 | 110 | 92 | 87 | 72 | 67 | 105 | 86 | 84 | 68 | 65 | 81 | 64 | 61 | 0 |
| 5.00 | 364 | 358 | 137 | 135 | 342 | 132 | 307 | 298 | 113 | 110 | 95 | 90 | 78 | 73 | 106 | 89 | 87 | 74 | 71 | 84 | 70 | 67 | 0 |
| 10.00 | 379 | 376 | 124 | 124 | 360 | 121 | 340 | 335 | 111 | 109 | 101 | 98 | 91 | 88 | 106 | 97 | 96 | 88 | 86 | 93 | 85 | 82 | 0 |
| 20.00 | 386 | 385 | 117 | 116 | 370 | 115 | 359 | 356 | 109 | 109 | 104 | 103 | 99 | 97 | 106 | 101 | 100 | 96 | 95 | 98 | 93 | 91 | 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 | 466 | 454 | 407 | 399 | 448 | 395 | 353 | 345 | 318 | 313 | 267 | 263 | 230 | 228 | 310 | 263 | 262 | 229 | 228 | 261 | 228 | 227 | 207 |
| 0.80 | 525 | 512 | 445 | 437 | 503 | 431 | 409 | 400 | 360 | 354 | 309 | 304 | 270 | 268 | 350 | 304 | 302 | 269 | 267 | 300 | 267 | 266 | 242 |
| 1.00 | 564 | 551 | 466 | 459 | 539 | 452 | 450 | 440 | 386 | 380 | 337 | 332 | 299 | 296 | 375 | 331 | 329 | 297 | 295 | 327 | 295 | 293 | 266 |
| 1.25 | 597 | 585 | 481 | 475 | 571 | 467 | 488 | 477 | 408 | 403 | 363 | 357 | 326 | 322 | 396 | 356 | 353 | 323 | 321 | 350 | 320 | 318 | 288 |
| 1.50 | 622 | 611 | 490 | 485 | 594 | 477 | 516 | 505 | 424 | 419 | 381 | 376 | 346 | 342 | 411 | 374 | 371 | 343 | 340 | 368 | 339 | 337 | 304 |
| 2.00 | 646 | 636 | 492 | 488 | 617 | 480 | 550 | 539 | 436 | 432 | 399 | 394 | 369 | 364 | 423 | 391 | 389 | 364 | 361 | 384 | 359 | 356 | 319 |
| 2.50 | 660 | 652 | 490 | 487 | 631 | 479 | 572 | 561 | 442 | 438 | 410 | 405 | 383 | 378 | 429 | 401 | 399 | 377 | 374 | 393 | 372 | 367 | 328 |
| 3.00 | 668 | 661 | 486 | 483 | 638 | 476 | 586 | 576 | 444 | 440 | 416 | 411 | 391 | 386 | 430 | 406 | 404 | 384 | 382 | 398 | 379 | 373 | 332 |
| 4.00 | 684 | 678 | 486 | 484 | 654 | 477 | 610 | 602 | 451 | 449 | 428 | 424 | 408 | 403 | 438 | 418 | 416 | 400 | 397 | 409 | 393 | 387 | 343 |
| 5.00 | 696 | 691 | 488 | 486 | 665 | 479 | 628 | 620 | 458 | 455 | 438 | 435 | 420 | 416 | 445 | 427 | 426 | 412 | 409 | 418 | 404 | 397 | 351 |
| 10.00 | 721 | 718 | 490 | 490 | 689 | 483 | 668 | 663 | 471 | 469 | 459 | 457 | 448 | 445 | 458 | 448 | 447 | 438 | 437 | 437 | 429 | 420 | 370 |
| 20.00 | 726 | 724 | 482 | 482 | 694 | 475 | 682 | 679 | 469 | 468 | 462 | 461 | 456 | 454 | 456 | 450 | 450 | 445 | 444 | 439 | 434 | 425 | 372 |

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 | 597 | 585 | 557 | 548 | 577 | 542 | 461 | 454 | 444 | 438 | 378 | 373 | 330 | 328 | 434 | 374 | 372 | 329 | 328 | 371 | 328 | 327 | 310 |
| 0.80 | 705 | 690 | 649 | 640 | 678 | 631 | 562 | 552 | 537 | 530 | 469 | 463 | 418 | 415 | 523 | 462 | 460 | 415 | 414 | 458 | 414 | 412 | 394 |
| 1.00 | 789 | 774 | 719 | 710 | 758 | 700 | 646 | 634 | 611 | 604 | 545 | 538 | 493 | 489 | 595 | 536 | 534 | 490 | 488 | 530 | 487 | 485 | 467 |
| 1.25 | 868 | 853 | 782 | 774 | 834 | 763 | 727 | 714 | 681 | 674 | 618 | 611 | 568 | 563 | 664 | 608 | 605 | 563 | 561 | 601 | 560 | 557 | 539 |
| 1.50 | 927 | 912 | 828 | 820 | 890 | 808 | 790 | 776 | 734 | 727 | 675 | 667 | 626 | 620 | 715 | 663 | 660 | 620 | 617 | 654 | 615 | 611 | 594 |
| 2.00 | 1000 | 999 | 892 | 886 | 972 | 873 | 885 | 872 | 812 | 805 | 760 | 753 | 717 | 710 | 791 | 747 | 744 | 709 | 705 | 736 | 702 | 696 | 681 |
| 2.50 | 1000 | 1000 | 931 | 927 | 1000 | 914 | 949 | 936 | 861 | 856 | 817 | 809 | 778 | 771 | 840 | 802 | 799 | 768 | 764 | 789 | 760 | 752 | 738 |
| 3.00 | 1000 | 1000 | 958 | 954 | 1000 | 941 | 995 | 983 | 896 | 891 | 857 | 850 | 822 | 815 | 874 | 841 | 838 | 811 | 807 | 827 | 801 | 792 | 779 |
| 4.00 | 1000 | 1000 | 990 | 987 | 1000 | 975 | 1000 | 1000 | 939 | 935 | 906 | 900 | 877 | 871 | 916 | 889 | 886 | 864 | 860 | 874 | 852 | 842 | 829 |
| 5.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 994 | 1000 | 1000 | 964 | 961 | 937 | 932 | 912 | 906 | 942 | 919 | 917 | 897 | 894 | 902 | 884 | 872 | 860 |
| 10.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 988 | 984 | 995 | 982 | 981 | 970 | 968 | 963 | 953 | 937 | 926 |
| 20.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 997 | 992 | 973 | 963 |

**LM53 SHR C0-C180: 1.226 SHR C90-C270: 1.226 SHR Superficial: 1.345**

**Luminaria**
Código TC-0415-BLA
Nombre EASY
**Ensayo**
Código CL116A17F314G
Nombre EASY

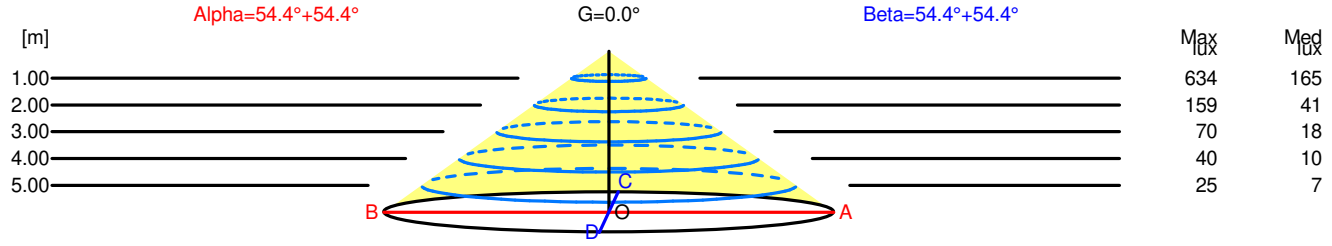
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Flujo Luminaria | 1755 lm | Potencia Luminaria | 22.8 W | Eficacia | 77.109 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 1755 lm | Valor Máximo | 361.30 cd/klm | Posición | C=0.00 G=0.00 | CG | Bisimétrico |

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 | 1.40 | 2.79 | 4.19 | 5.59 | 6.99 | OC | 1.40 | 2.80 | 4.19 | 5.59 | 6.99 |
| OB | 1.40 | 2.79 | 4.19 | 5.59 | 6.99 | OD | 1.40 | 2.80 | 4.19 | 5.59 | 6.99 |

Intensidades Luminosas [ cd/klm]

| | 0 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 |
|---|---|---|---|---|---|---|---|---|---|---|
| OA | 634.09 | 630.97 | 605.68 | 557.30 | 488.22 | 405.05 | 311.42 | 213.67 | 117.63 | 33.29 |
| OB | 634.09 | 630.97 | 605.68 | 557.30 | 488.22 | 405.05 | 311.42 | 213.67 | 117.63 | 33.29 |
| OC | 634.09 | 631.12 | 605.78 | 557.15 | 488.56 | 404.36 | 311.41 | 214.17 | 117.78 | 33.96 |
| OD | 634.09 | 631.12 | 605.78 | 557.15 | 488.56 | 404.36 | 311.41 | 214.17 | 117.78 | 33.96 |




| H[m] | D[m] | Max lux | Med lux | Alpha=54.4°+54.4° G=0.0 |
|---|---|---|---|---|
| 1.00 | 2.79 | 634 | 165 | |
| 2.00 | 5.59 | 159 | 41 | |
| 3.00 | 8.38 | 70 | 18 | |
| 4.00 | 11.18 | 40 | 10 | |
| 5.00 | 13.97 | 25 | 7 | |

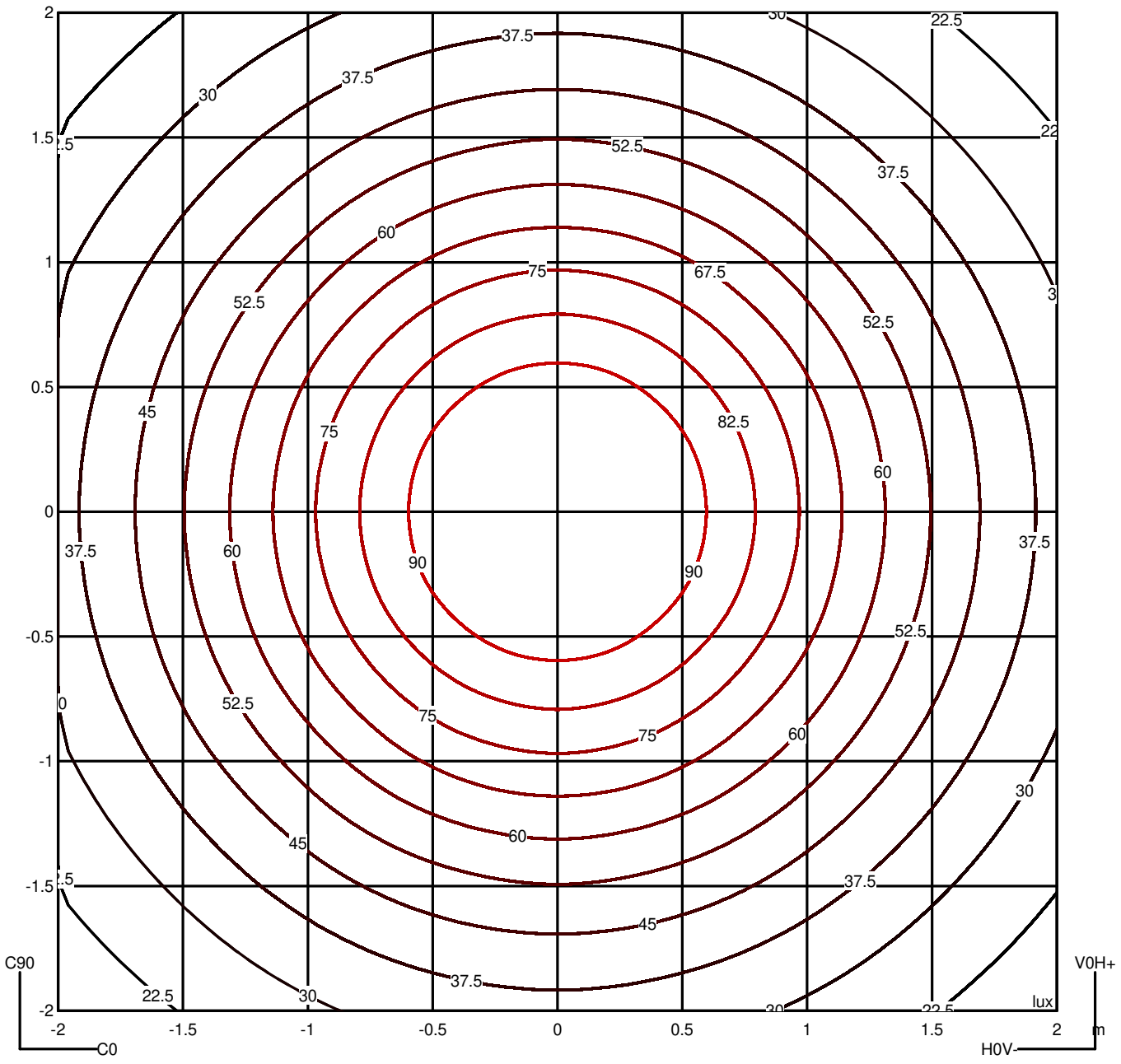
| H[m] | D[m] | Max lux | Med lux | Beta=54.4°+54.4° G=0.0 |
|---|---|---|---|---|
| 1.00 | 2.80 | 634 | 165 | |
| 2.00 | 5.59 | 159 | 41 | |
| 3.00 | 8.39 | 70 | 18 | |
| 4.00 | 11.18 | 40 | 10 | |
| 5.00 | 13.98 | 25 | 7 | |

**Luminaria**
Código TC-0415-BLA
Nombre EASY
**Ensayo**
Código CL116A17F314G
Nombre EASY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Flujo Luminaria | 1755 lm | Potencia Luminaria | 22.8 W | Eficacia | 77.109 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 1755 lm | Valor Máximo | 361.30 cd/klm | Posición | C=0.00 G=0.00 | CG | Bisimétrico |

Isolux (Suelo)

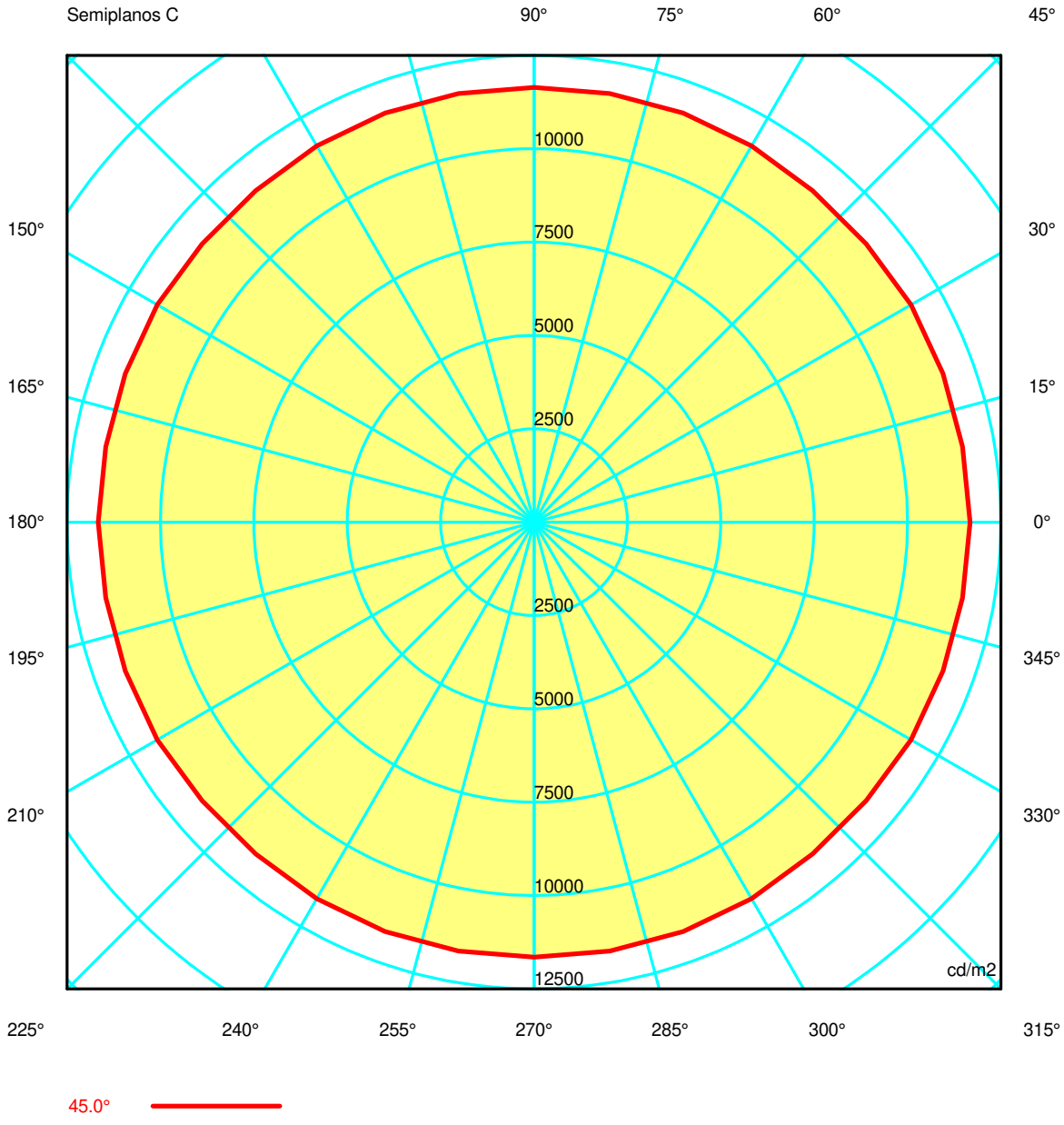
Posición Luminaria X=0.00m Y=0.00m Z=2.50m



**Luminaria**
Código TC-0415-BLA
Nombre EASY
**Ensayo**
Código CL116A17F314G
Nombre EASY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Flujo Luminaria | 1755 lm | Potencia Luminaria | 22.8 W | Eficacia | 77.109 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 1755 lm | Valor Máximo | 361.30 cd/klm | Posición | C=0.00 G=0.00 | CG | Bisimétrico |

Luminancia



**Luminaria**
Código TC-0415-BLA
Nombre EASY
**Ensayo**
Código CL116A17F314G
Nombre EASY

| | | | | | | |
|---|---|---|---|---|---|---|
| Flujo Luminaria | 1755 lm | Potencia Luminaria | 22.8 W | Eficacia | 77.109 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 1755 lm | Valor Máximo | 361.30 cd/klm | Posición | C=0.00 G=0.00 | CG | Bisimétrico |

**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 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 |
| G 5.0 | 12903.21 | 12900.18 | 12901.74 | 12905.40 | 12903.93 | 12899.09 | 12895.88 | 12898.25 | 12902.50 | 12906.11 | 12902.50 | 12898.25 | 12895.88 |
| G 10.0 | 12854.20 | 12852.75 | 12852.61 | 12852.74 | 12851.71 | 12852.18 | 12853.45 | 12849.21 | 12847.15 | 12850.28 | 12847.15 | 12849.21 | 12853.45 |
| G 15.0 | 12774.09 | 12771.34 | 12772.77 | 12774.65 | 12761.65 | 12756.46 | 12764.71 | 12771.19 | 12774.42 | 12776.21 | 12774.42 | 12771.19 | 12764.71 |
| G 20.0 | 12665.15 | 12659.44 | 12659.81 | 12662.20 | 12658.13 | 12660.32 | 12664.07 | 12652.33 | 12648.99 | 12662.82 | 12648.99 | 12652.33 | 12664.07 |
| G 25.0 | 12526.79 | 12514.26 | 12518.62 | 12522.50 | 12496.16 | 12492.76 | 12518.25 | 12521.78 | 12522.83 | 12523.45 | 12522.83 | 12521.78 | 12518.25 |
| G 30.0 | 12355.92 | 12345.38 | 12342.30 | 12340.86 | 12324.66 | 12332.66 | 12350.07 | 12324.79 | 12315.33 | 12345.63 | 12315.33 | 12324.79 | 12350.07 |
| G 35.0 | 12141.72 | 12131.31 | 12134.86 | 12140.78 | 12107.71 | 12102.04 | 12131.51 | 12140.94 | 12142.97 | 12150.31 | 12142.97 | 12140.94 | 12131.51 |
| G 40.0 | 11921.79 | 11902.69 | 11899.98 | 11902.34 | 11887.22 | 11893.65 | 11911.74 | 11893.27 | 11892.62 | 11930.98 | 11892.62 | 11893.27 | 11911.74 |
| G 45.0 | 11669.58 | 11645.63 | 11645.18 | 11650.08 | 11603.90 | 11596.96 | 11641.97 | 11662.62 | 11660.14 | 11649.54 | 11660.14 | 11662.62 | 11641.97 |
| G 50.0 | 11307.00 | 11336.73 | 11362.81 | 11364.97 | 11331.93 | 11347.96 | 11383.81 | 11332.19 | 11317.92 | 11390.48 | 11317.92 | 11332.19 | 11383.81 |
| G 55.0 | 11060.65 | 11031.09 | 11040.67 | 11048.75 | 10985.30 | 10971.89 | 11031.05 | 11062.65 | 11066.41 | 11060.41 | 11066.41 | 11062.65 | 11031.05 |
| G 60.0 | 10580.26 | 10659.96 | 10685.89 | 10688.37 | 10698.89 | 10715.48 | 10704.54 | 10624.54 | 10623.94 | 10741.93 | 10623.94 | 10624.54 | 10704.54 |
| G 65.0 | 10299.71 | 10271.53 | 10279.54 | 10293.19 | 10199.33 | 10175.11 | 10253.76 | 10301.14 | 10317.01 | 10323.71 | 10317.01 | 10301.14 | 10253.76 |
| G 70.0 | 9652.08 | 9719.31 | 9754.37 | 9771.78 | 9776.34 | 9823.77 | 9865.92 | 9710.98 | 9674.48 | 9865.06 | 9674.48 | 9710.98 | 9865.92 |
| G 75.0 | 9258.98 | 9173.31 | 9188.40 | 9221.97 | 9112.03 | 9089.75 | 9203.77 | 9266.73 | 9277.83 | 9270.72 | 9277.83 | 9266.73 | 9203.77 |
| G 80.0 | 8206.03 | 8317.07 | 8422.72 | 8475.06 | 8473.15 | 8529.17 | 8643.11 | 8389.65 | 8353.00 | 8725.95 | 8353.00 | 8389.65 | 8643.11 |
| G 85.0 | 7780.40 | 7664.19 | 7757.38 | 7838.29 | 7523.90 | 7457.30 | 7759.48 | 7907.68 | 7933.89 | 7938.84 | 7933.89 | 7907.68 | 7759.48 |
| 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 |

**Luminaria**
Código TC-0415-BLA
Nombre EASY
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Código CL116A17F314G
Nombre EASY

| Flujo Luminaria | 1755 lm | Potencia Luminaria | 22.8 W | Eficacia | 77.109 lm/W | Eficiencia | 100.00% |
|---|---|---|---|---|---|---|---|
| Flujo Fuente | 1755 lm | Valor Máximo | 361.30 cd/klm | Posición | C=0.00 G=0.00 | CG | Bisimétrico |

**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 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 |
| G 5.0 | 12899.09 | 12903.93 | 12905.40 | 12901.74 | 12900.18 | 12903.21 | 12900.18 | 12901.74 | 12905.40 | 12903.93 | 12899.09 | 12895.88 | 12898.25 |
| G 10.0 | 12852.18 | 12851.71 | 12852.74 | 12852.61 | 12852.75 | 12854.20 | 12852.75 | 12852.61 | 12852.74 | 12851.71 | 12852.18 | 12853.45 | 12849.21 |
| G 15.0 | 12756.46 | 12761.65 | 12774.65 | 12772.77 | 12771.34 | 12774.09 | 12771.34 | 12772.77 | 12774.65 | 12761.65 | 12756.46 | 12764.71 | 12771.19 |
| G 20.0 | 12660.32 | 12658.13 | 12662.20 | 12659.81 | 12659.44 | 12665.15 | 12659.44 | 12659.81 | 12662.20 | 12658.13 | 12660.32 | 12664.07 | 12652.33 |
| G 25.0 | 12492.76 | 12496.16 | 12522.50 | 12518.62 | 12514.26 | 12526.79 | 12514.26 | 12518.62 | 12522.50 | 12496.16 | 12492.76 | 12518.25 | 12521.78 |
| G 30.0 | 12332.66 | 12324.66 | 12340.86 | 12342.30 | 12345.38 | 12355.92 | 12345.38 | 12342.30 | 12340.86 | 12324.66 | 12332.66 | 12350.07 | 12324.79 |
| G 35.0 | 12102.04 | 12107.71 | 12140.78 | 12134.86 | 12131.31 | 12141.72 | 12131.31 | 12134.86 | 12140.78 | 12107.71 | 12102.04 | 12131.51 | 12140.94 |
| G 40.0 | 11893.65 | 11887.22 | 11902.34 | 11899.98 | 11902.69 | 11921.79 | 11902.69 | 11899.98 | 11902.34 | 11887.22 | 11893.65 | 11911.74 | 11893.27 |
| G 45.0 | 11596.96 | 11603.90 | 11650.08 | 11645.18 | 11645.63 | 11669.58 | 11645.63 | 11645.18 | 11650.08 | 11603.90 | 11596.96 | 11641.97 | 11662.62 |
| G 50.0 | 11347.96 | 11331.93 | 11364.97 | 11362.81 | 11336.73 | 11307.00 | 11336.73 | 11362.81 | 11364.97 | 11331.93 | 11347.96 | 11383.81 | 11332.19 |
| G 55.0 | 10971.89 | 10985.30 | 11048.75 | 11040.67 | 11031.09 | 11060.65 | 11031.09 | 11040.67 | 11048.75 | 10985.30 | 10971.89 | 11031.05 | 11062.65 |
| G 60.0 | 10715.48 | 10698.89 | 10688.37 | 10685.89 | 10659.96 | 10580.26 | 10659.96 | 10685.89 | 10688.37 | 10698.89 | 10715.48 | 10704.54 | 10624.54 |
| G 65.0 | 10175.11 | 10199.33 | 10293.19 | 10279.54 | 10271.53 | 10299.71 | 10271.53 | 10279.54 | 10293.19 | 10199.33 | 10175.11 | 10253.76 | 10301.14 |
| G 70.0 | 9823.77 | 9776.34 | 9771.78 | 9754.37 | 9719.31 | 9652.08 | 9719.31 | 9754.37 | 9771.78 | 9776.34 | 9823.77 | 9865.92 | 9710.98 |
| G 75.0 | 9089.75 | 9112.03 | 9221.97 | 9188.40 | 9173.31 | 9258.98 | 9173.31 | 9188.40 | 9221.97 | 9112.03 | 9089.75 | 9203.77 | 9266.73 |
| G 80.0 | 8529.17 | 8473.15 | 8475.06 | 8422.72 | 8317.07 | 8206.03 | 8317.07 | 8422.72 | 8475.06 | 8473.15 | 8529.17 | 8643.11 | 8389.65 |
| G 85.0 | 7457.30 | 7523.90 | 7838.29 | 7757.38 | 7664.19 | 7780.40 | 7664.19 | 7757.38 | 7838.29 | 7523.90 | 7457.30 | 7759.48 | 7907.68 |
| 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 |

**Luminaria**
Código TC-0415-BLA
Nombre EASY
**Ensayo**
Código CL116A17F314G
Nombre EASY

| | | | | | | |
|---|---|---|---|---|---|---|
| Flujo Luminaria | 1755 lm | Potencia Luminaria | 22.8 W | Eficacia | 77.109 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 1755 lm | Valor Máximo | 361.30 cd/klm | Posición | C=0.00 G=0.00 | CG | Bisimétrico |

**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 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 | 12917.51 |
| G 5.0 | 12902.50 | 12906.11 | 12902.50 | 12898.25 | 12895.88 | 12899.09 | 12903.93 | 12905.40 | 12901.74 | 12900.18 |
| G 10.0 | 12847.15 | 12850.28 | 12847.15 | 12849.21 | 12853.45 | 12852.18 | 12851.71 | 12852.74 | 12852.61 | 12852.75 |
| G 15.0 | 12774.42 | 12776.21 | 12774.42 | 12771.19 | 12764.71 | 12756.46 | 12761.65 | 12774.65 | 12772.77 | 12771.34 |
| G 20.0 | 12648.99 | 12662.82 | 12648.99 | 12652.33 | 12664.07 | 12660.32 | 12658.13 | 12662.20 | 12659.81 | 12659.44 |
| G 25.0 | 12522.83 | 12523.45 | 12522.83 | 12521.78 | 12518.25 | 12492.76 | 12496.16 | 12522.50 | 12518.62 | 12514.26 |
| G 30.0 | 12315.33 | 12345.63 | 12315.33 | 12324.79 | 12350.07 | 12332.66 | 12324.66 | 12340.86 | 12342.30 | 12345.38 |
| G 35.0 | 12142.97 | 12150.31 | 12142.97 | 12140.94 | 12131.51 | 12102.04 | 12107.71 | 12140.78 | 12134.86 | 12131.31 |
| G 40.0 | 11892.62 | 11930.98 | 11892.62 | 11893.27 | 11911.74 | 11893.65 | 11887.22 | 11902.34 | 11899.98 | 11902.69 |
| G 45.0 | 11660.14 | 11649.54 | 11660.14 | 11662.62 | 11641.97 | 11596.96 | 11603.90 | 11650.08 | 11645.18 | 11645.63 |
| G 50.0 | 11317.92 | 11390.48 | 11317.92 | 11332.19 | 11383.81 | 11347.96 | 11331.93 | 11364.97 | 11362.81 | 11336.73 |
| G 55.0 | 11066.41 | 11060.41 | 11066.41 | 11062.65 | 11031.05 | 10971.89 | 10985.30 | 11048.75 | 11040.67 | 11031.09 |
| G 60.0 | 10623.94 | 10741.93 | 10623.94 | 10624.54 | 10704.54 | 10715.48 | 10698.89 | 10688.37 | 10685.89 | 10659.96 |
| G 65.0 | 10317.01 | 10323.71 | 10317.01 | 10301.14 | 10253.76 | 10175.11 | 10199.33 | 10293.19 | 10279.54 | 10271.53 |
| G 70.0 | 9674.48 | 9865.06 | 9674.48 | 9710.98 | 9865.92 | 9823.77 | 9776.34 | 9771.78 | 9754.37 | 9719.31 |
| G 75.0 | 9277.83 | 9270.72 | 9277.83 | 9266.73 | 9203.77 | 9089.75 | 9112.03 | 9221.97 | 9188.40 | 9173.31 |
| G 80.0 | 8353.00 | 8725.95 | 8353.00 | 8389.65 | 8643.11 | 8529.17 | 8473.15 | 8475.06 | 8422.72 | 8317.07 |
| G 85.0 | 7933.89 | 7938.84 | 7933.89 | 7907.68 | 7759.48 | 7457.30 | 7523.90 | 7838.29 | 7757.38 | 7664.19 |
| G 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Luminaria**
Código TC-0415-BLA
Nombre EASY
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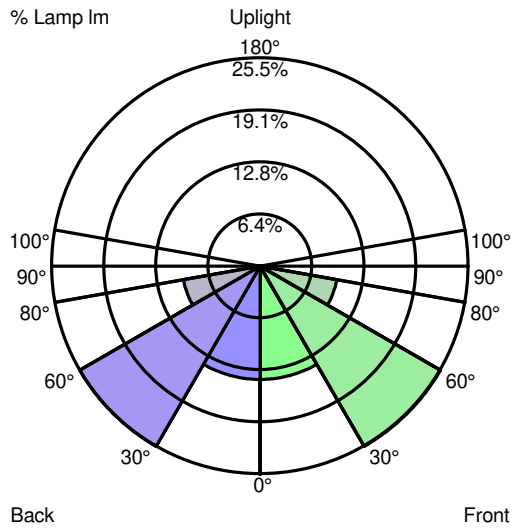
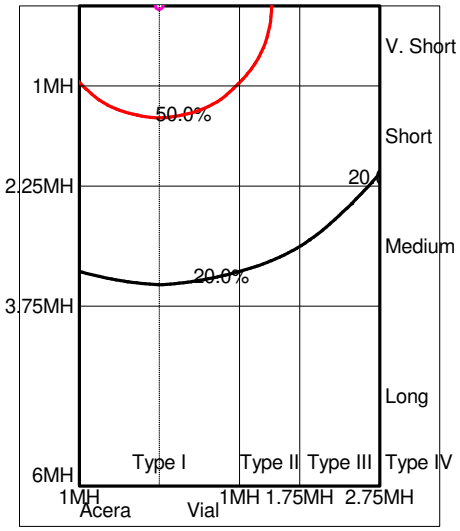
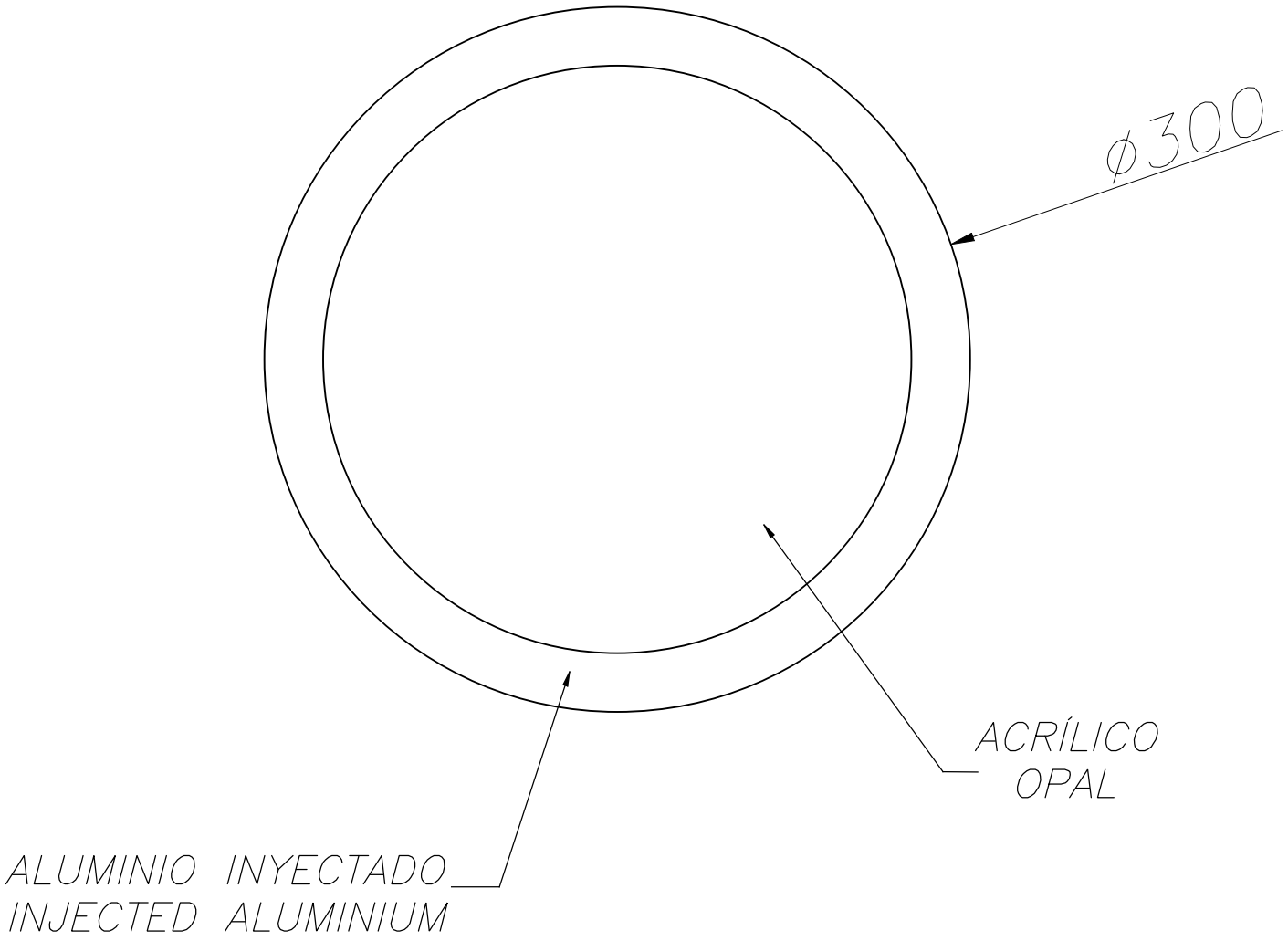
|---|---|---|---|---|---|---|---|
| Flujo Luminaria | 1755 lm | Potencia Luminaria | 22.8 W | Eficacia | 77.109 lm/W | Eficiencia | 100.00% |
| Flujo Fuente | 1755 lm | Valor Máximo | 361.30 cd/klm | Posición | C=0.00 G=0.00 | CG | Bisimétrico |

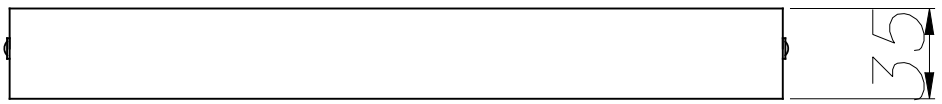
US ROAD STANDARDS



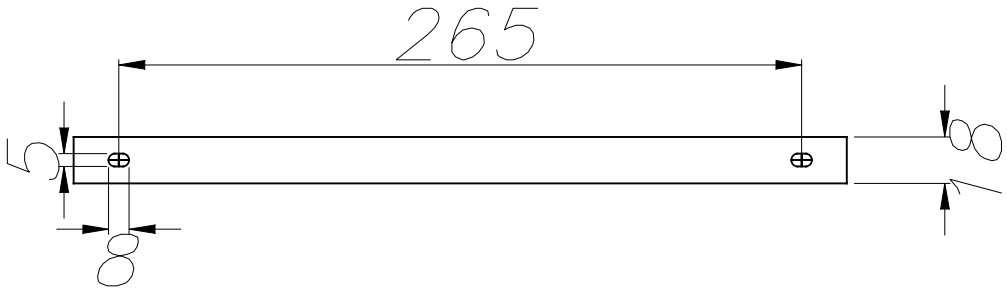




| Luminaire Classification System (LCS) | | | | |
|---|---|---|---|---|
| LCS Zone | | Lumens | %Lamp | %Lum |
| FL | 0° -- 30° | 243.7 lm | 13.9 % | 13.9 % |
| FM | 30° -- 60° | 447.6 lm | 25.5 % | 25.5 % |
| FH | 60° -- 80° | 167.3 lm | 9.5 % | 9.5 % |
| FVH | 80° -- 90° | 18.9 lm | 1.1 % | 1.1 % |
| BL | 0° -- 30° | 243.7 lm | 13.9 % | 13.9 % |
| BM | 30° -- 60° | 447.6 lm | 25.5 % | 25.5 % |
| BH | 60° -- 80° | 167.3 lm | 9.5 % | 9.5 % |
| BVH | 80° -- 90° | 18.9 lm | 1.1 % | 1.1 % |
| UL | 90° -- 100° | 0.0 lm | 0.0 % | 0.0 % |
| UH | 100° -- 180° | 0.0 lm | 0.0 % | 0.0 % |
| TOTALS | | 1755.0 lm | 100.0 % | 100.0 % |
| BUG B1 U0 G1 Type V Very Short Quadrilateral Symmetry | | | | |

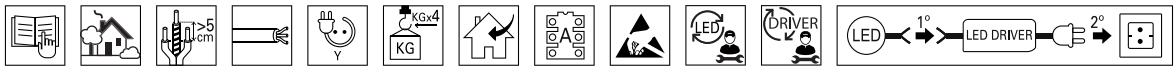


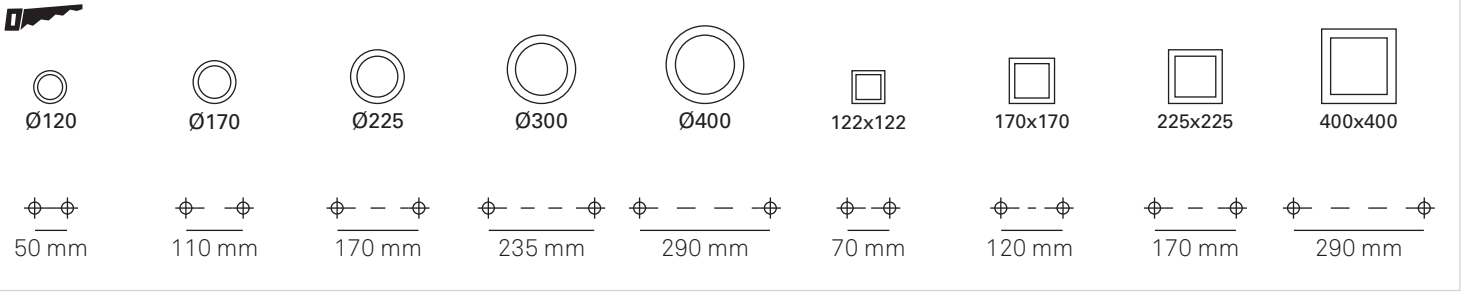



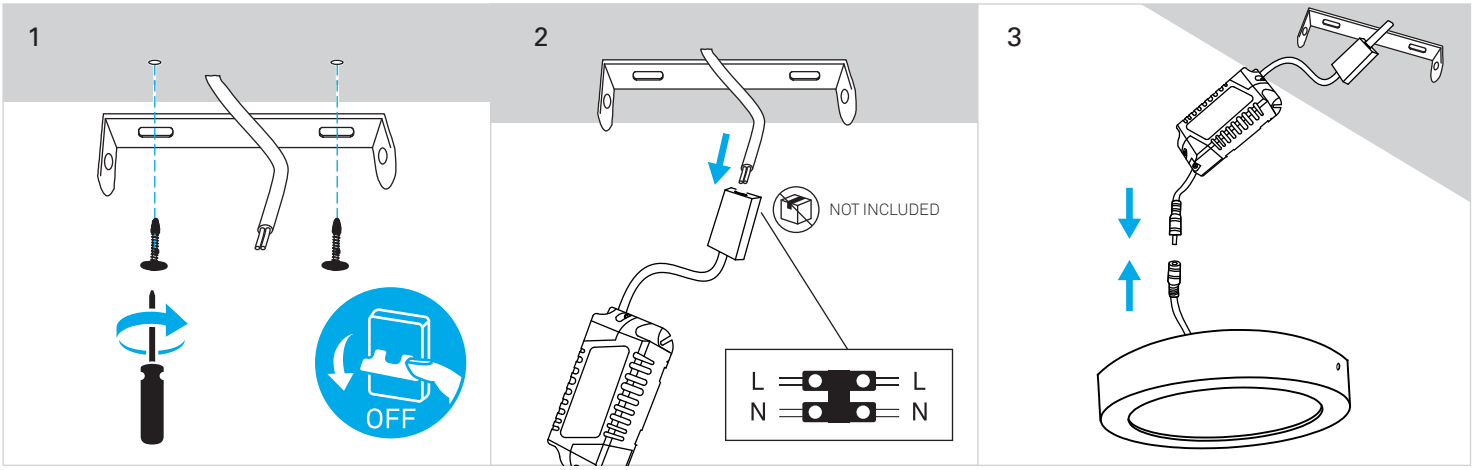

PLANTILLA DE INSTALACIÓN
INSTALLATION TEMPLATE

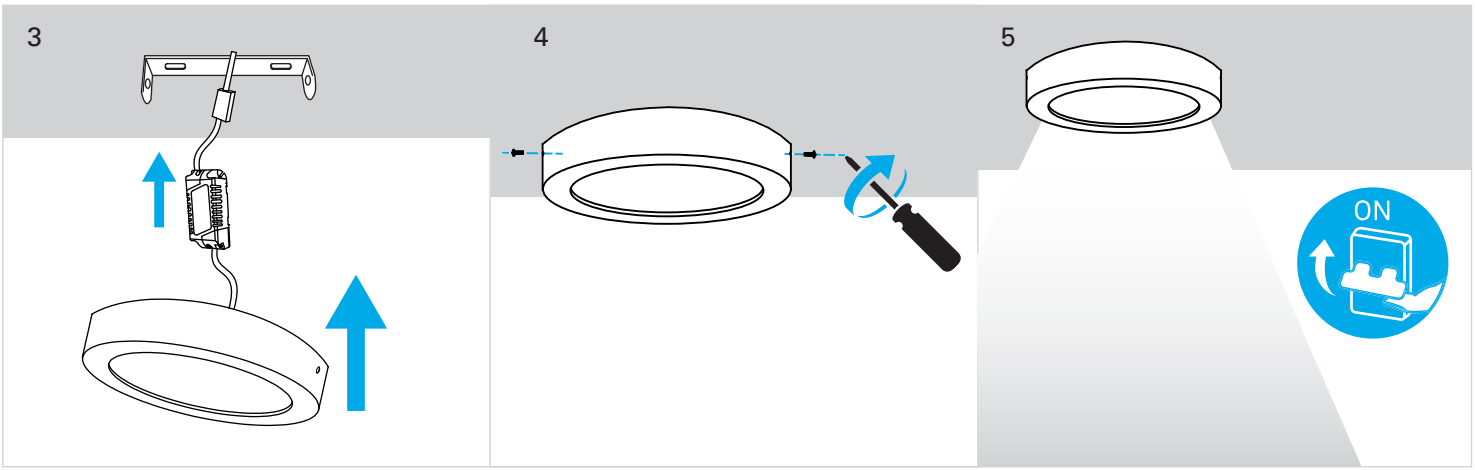


# Easy


>5 cm
KGx4
KG
Y
A
LED
DRIVER
LED
1°
LED DRIVER
2°


Ø120
Ø170
Ø225
Ø300
Ø400
122x122
170x170
225x225
400x400
50 mm
110 mm
170 mm
235 mm
290 mm
70 mm
120 mm
170 mm
290 mm


1
OFF
2
NOT INCLUDED
L
N
L
N
3


3
4
5
ON