# Tender

## DE-0500-BLA

Flexo Tender LED 4W 3000K ON-OFF Blanco 345lm



### CARACTERÍSTICAS TÉCNICAS

IP20

**Potencia total luminaria :** 4W

**Lúmenes reales :** 345

**Lúmenes nominales :** 550

**Lm / W reales :** 86

**Ángulo Ópticas / Reflector :** FLOOD 94º

**Material de la estructura :** Policarbonato, Acero

**Acabado estructura :** Blanco

**Material del difusor :** Policarbonato

**Acabado difusor :** Matizado

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

**Protocolo de regulación :** ON-OFF

**Power Factor :** 0.50

**Vida útil :** 36.000h L70B30

**Garantía :** 3 Años

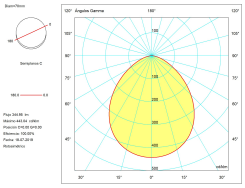
### CARACTERÍSTICAS LUMINOTÉCNICAS

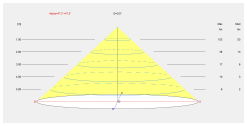
**CRI:** 80

**MacAdam steps:** 5

**Riesgo fotobiológico:** RG0

| Portalámparas | Cantidad | Potencia fuente de luz (W) | Temperatura de color correlacionada (CCT) |
|---|---|---|---|
| LED | 1 | 4W | 3000K |





### LOGÍSTICA

**Peso neto (Kg):** 0.77

**Peso embalado (Kg):** 0.91

**Embalaje:** -mm x -mm x -mm

6 Un

## APLICACIÓN DE LA LUMINARIA



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%.

**Luminaire**
Code DE-0500-BLA
Name TENDER
**Measurem.**
Code DE-0500-BLA
Name TENDER

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Luminaire Flux | 344.95 lm | Luminaire Power | 4.60 W | Efficacy | 74.99 lm/W | Efficiency | 100.00% |
| Sources Flux | 344.95 lm | Maximum value | 443.04 cd/klm | Position | C=0.00 G=0.00 | CG | Rotosymmetrical |

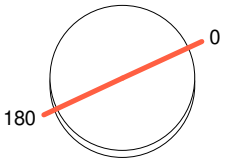
| | | | |
|---|---|---|---|
| Round Luminaire | Diam. 70 mm | Height | 80 mm |
| Round Luminous Area | Diam. 66 mm | Height | 0 mm |
| Horizontal Luminous Area | 0.003421 m2 | Emitting area on Plane 180° | 0.000000 m2 |
| Emitting area on Plane 0° | 0.000000 m2 | Emitting area on Plane 270° | 0.000000 m2 |
| Emitting area on Plane 90° | 0.000000 m2 | Glare area at 76° | 0.000828 m2 |
| Coordinate system | CG | Symmetry Type | Rotosymmetrical |
| Date | 18-07-2019 | Maximum Gamma Angle | 90 |
| Measurement Distance | 0.00 | Measurement Flux | 344.95 lm |
| Operator | qualitat | Rated Voltage | |
| Temperature | 25.00 °C | Rated Current | |
| Humidity | 60.00 % | Photocell | |
| Notes | | | |

**Luminaire Lamps**

| Line | Code | Name | Flux [lm] | Pow. [W] | Q.ty |
|---|---|---|---|---|---|
| | DE-0500-BLA | DE-0500-BLA | 344.95 | 4.60 | 1 |

| | | | |
|---|---|---|---|
| C.I.E. | 57 86 97 100 100 | D DIN 5040 | A40 |
| F UTE | 1.00 D | B NBN | BZ 3 |

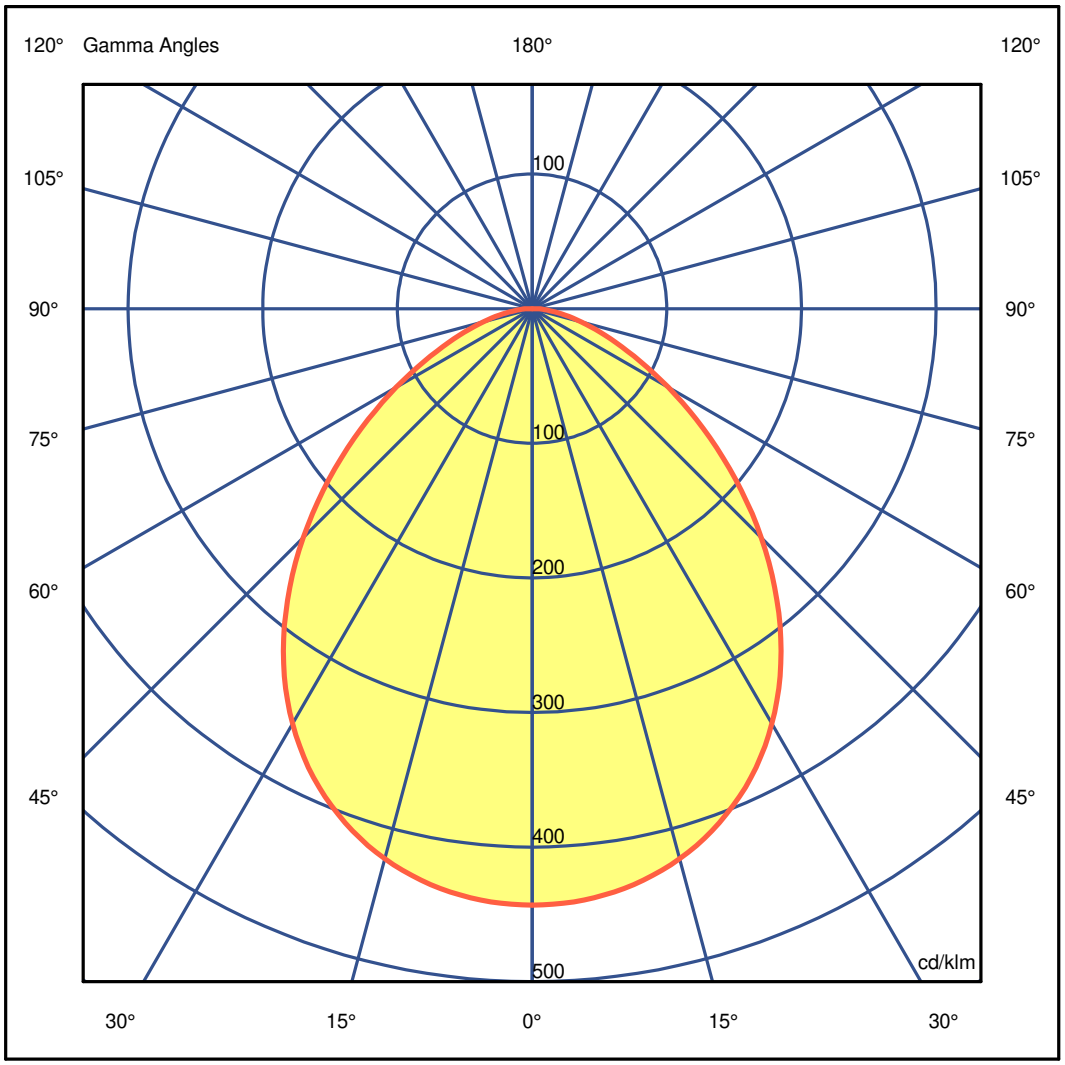
Diam=70mm




C Halfplanes

180.0 0.0

ULOR 0.00 %
DLOR100.00 %
RN 0.00 %



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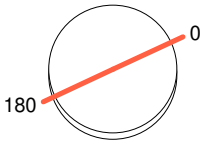
**Luminous Intensity Table cd/klm** **Table 1/1**

| | C 0.00 | | C 0.00 |
|---|---|---|---|
| G 0.0 | 443.04 | G 46.0 | 231.91 |
| G 1.0 | 442.96 | G 47.0 | 223.24 |
| G 2.0 | 442.71 | G 48.0 | 214.50 |
| G 3.0 | 442.28 | G 49.0 | 205.80 |
| G 4.0 | 441.67 | G 50.0 | 197.02 |
| G 5.0 | 440.89 | G 51.0 | 188.45 |
| G 6.0 | 439.97 | G 52.0 | 179.81 |
| G 7.0 | 438.80 | G 53.0 | 171.43 |
| G 8.0 | 437.51 | G 54.0 | 163.05 |
| G 9.0 | 436.03 | G 55.0 | 154.92 |
| G 10.0 | 434.36 | G 56.0 | 146.88 |
| G 11.0 | 432.51 | G 57.0 | 139.08 |
| G 12.0 | 430.41 | G 58.0 | 131.52 |
| G 13.0 | 428.17 | G 59.0 | 123.97 |
| G 14.0 | 425.65 | G 60.0 | 116.60 |
| G 15.0 | 422.99 | G 61.0 | 109.32 |
| G 16.0 | 420.06 | G 62.0 | 102.44 |
| G 17.0 | 416.98 | G 63.0 | 95.72 |
| G 18.0 | 413.64 | G 64.0 | 89.38 |
| G 19.0 | 410.11 | G 65.0 | 83.37 |
| G 20.0 | 406.37 | G 66.0 | 77.69 |
| G 21.0 | 402.34 | G 67.0 | 72.35 |
| G 22.0 | 398.18 | G 68.0 | 67.22 |
| G 23.0 | 393.69 | G 69.0 | 62.41 |
| G 24.0 | 389.11 | G 70.0 | 57.73 |
| G 25.0 | 384.17 | G 71.0 | 53.34 |
| G 26.0 | 379.06 | G 72.0 | 49.15 |
| G 27.0 | 373.65 | G 73.0 | 45.16 |
| G 28.0 | 367.99 | G 74.0 | 41.34 |
| G 29.0 | 362.13 | G 75.0 | 37.70 |
| G 30.0 | 355.98 | G 76.0 | 34.27 |
| G 31.0 | 349.70 | G 77.0 | 30.96 |
| G 32.0 | 343.03 | G 78.0 | 27.87 |
| G 33.0 | 336.29 | G 79.0 | 24.93 |
| G 34.0 | 329.16 | G 80.0 | 22.19 |
| G 35.0 | 321.91 | G 81.0 | 19.61 |
| G 36.0 | 314.36 | G 82.0 | 17.21 |
| G 37.0 | 306.69 | G 83.0 | 14.98 |
| G 38.0 | 298.85 | G 84.0 | 12.96 |
| G 39.0 | 290.79 | G 85.0 | 11.15 |
| G 40.0 | 282.75 | G 86.0 | 9.60 |
| G 41.0 | 274.42 | G 87.0 | 8.35 |
| G 42.0 | 266.13 | G 88.0 | 7.39 |
| G 43.0 | 257.62 | G 89.0 | 6.68 |
| G 44.0 | 249.18 | G 90.0 | 6.18 |
| G 45.0 | 240.54 | | |

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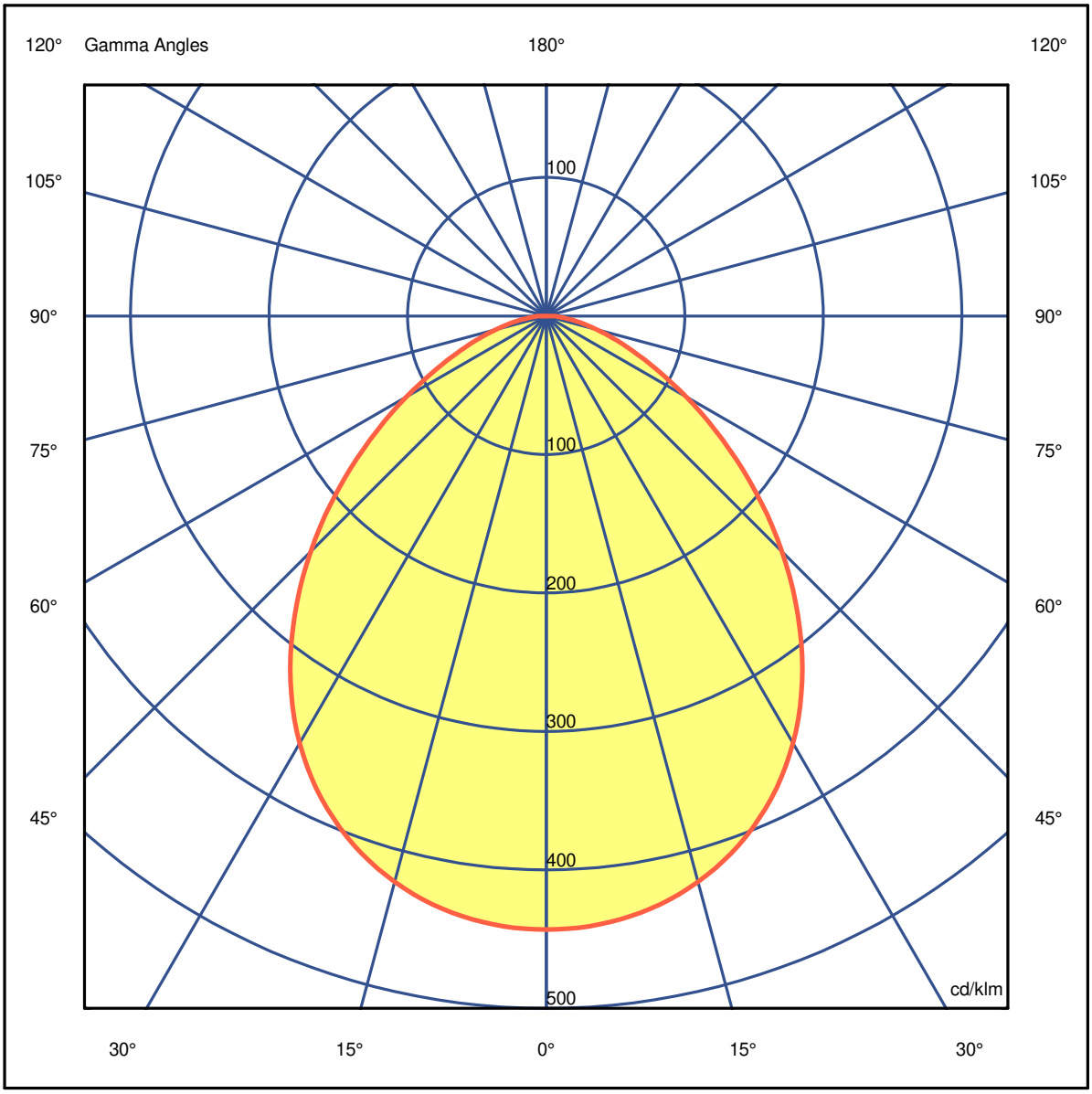
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Diam=70mm




C Halfplanes

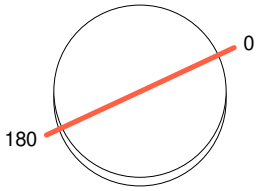


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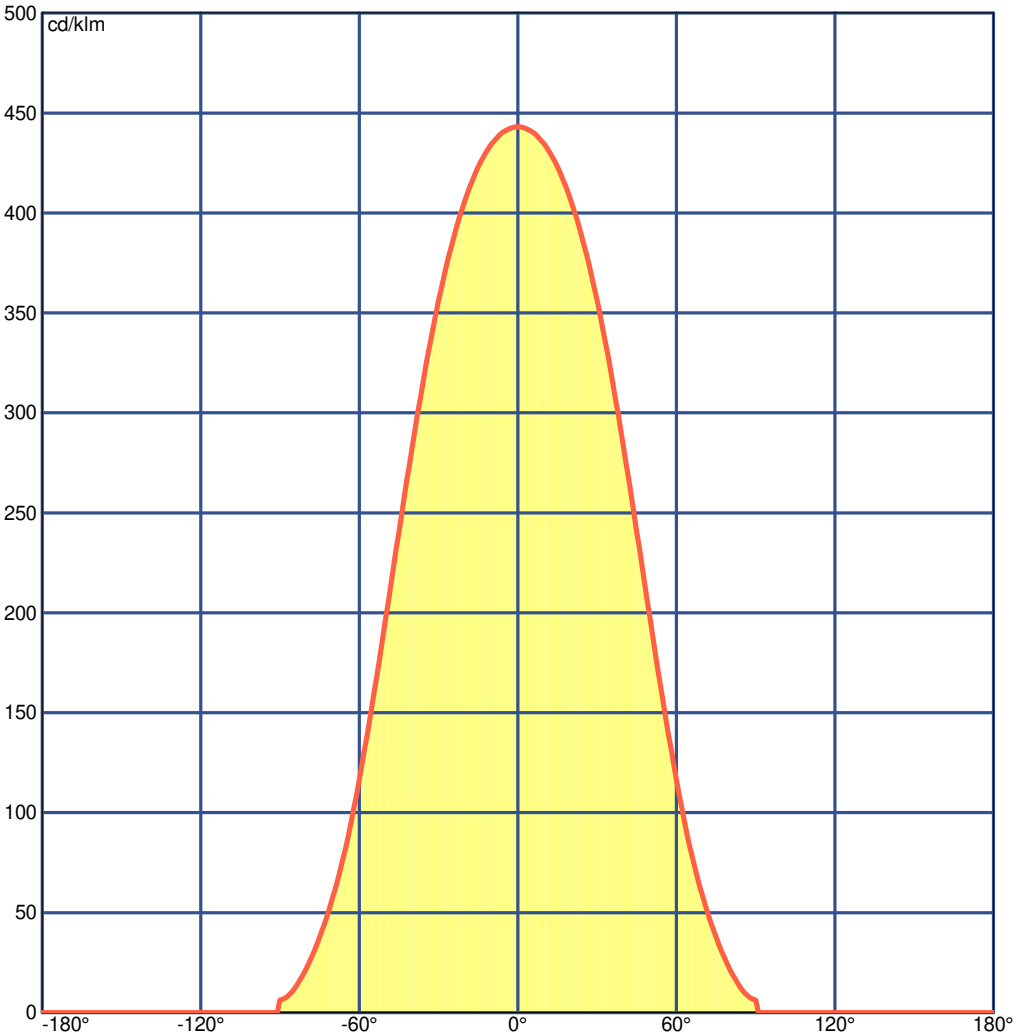
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**UGR**
S = 0.250

| Reflectancies | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling/Cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| WorkingPlane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| | | | | | | | | | | |
| RoomDimensions | Viewed Crosswise | | | | | Viewed Endwise | | | | |
| x=2H y=2H | 23.5 | 24.7 | 23.8 | 24.9 | 25.1 | 23.5 | 24.7 | 23.8 | 24.9 | 25.1 |
| x=2H y=3H | 24.4 | 25.5 | 24.7 | 25.7 | 26.0 | 24.4 | 25.5 | 24.7 | 25.7 | 26.0 |
| x=2H y=4H | 24.7 | 25.7 | 25.1 | 26.0 | 26.3 | 24.7 | 25.7 | 25.1 | 26.0 | 26.3 |
| x=2H y=6H | 25.0 | 25.9 | 25.3 | 26.2 | 26.5 | 25.0 | 25.9 | 25.3 | 26.2 | 26.5 |
| x=2H y=8H | 25.1 | 26.0 | 25.4 | 26.3 | 26.6 | 25.1 | 26.0 | 25.4 | 26.3 | 26.6 |
| x=2H y=12H | 25.2 | 26.0 | 25.5 | 26.3 | 26.7 | 25.2 | 26.0 | 25.5 | 26.3 | 26.7 |
| x=4H y=2H | 24.0 | 25.0 | 24.3 | 25.3 | 25.5 | 24.0 | 25.0 | 24.3 | 25.3 | 25.5 |
| x=4H y=3H | 25.1 | 25.9 | 25.5 | 26.2 | 26.6 | 25.1 | 25.9 | 25.5 | 26.2 | 26.6 |
| x=4H y=4H | 25.5 | 26.3 | 25.9 | 26.6 | 27.0 | 25.5 | 26.3 | 25.9 | 26.6 | 27.0 |
| x=4H y=6H | 25.9 | 26.5 | 26.3 | 26.9 | 27.3 | 25.9 | 26.5 | 26.3 | 26.9 | 27.3 |
| x=4H y=8H | 26.0 | 26.6 | 26.4 | 27.0 | 27.4 | 26.0 | 26.6 | 26.4 | 27.0 | 27.4 |
| x=4H y=12H | 26.1 | 26.6 | 26.6 | 27.1 | 27.5 | 26.1 | 26.6 | 26.6 | 27.1 | 27.5 |
| x=8H y=4H | 25.7 | 26.3 | 26.2 | 26.7 | 27.1 | 25.7 | 26.3 | 26.2 | 26.7 | 27.1 |
| x=8H y=6H | 26.2 | 26.7 | 26.6 | 27.1 | 27.5 | 26.2 | 26.7 | 26.6 | 27.1 | 27.5 |
| x=8H y=8H | 26.4 | 26.8 | 26.9 | 27.3 | 27.7 | 26.4 | 26.8 | 26.9 | 27.3 | 27.7 |
| x=8H y=12H | 26.6 | 26.9 | 27.1 | 27.4 | 27.9 | 26.6 | 26.9 | 27.1 | 27.4 | 27.9 |
| x=12H y=4H | 25.7 | 26.3 | 26.2 | 26.7 | 27.1 | 25.7 | 26.3 | 26.2 | 26.7 | 27.1 |
| x=12H y=6H | 26.2 | 26.6 | 26.7 | 27.1 | 27.6 | 26.2 | 26.6 | 26.7 | 27.1 | 27.6 |
| x=12H y=8H | 26.5 | 26.8 | 26.9 | 27.3 | 27.8 | 26.5 | 26.8 | 26.9 | 27.3 | 27.8 |

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Total Flux=344.95 Luminaire Flux=344.95

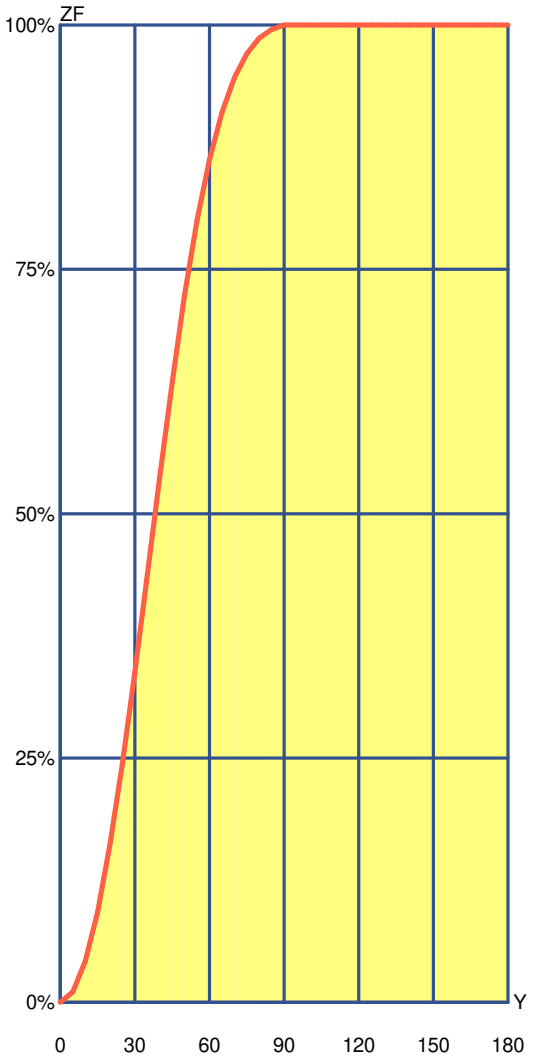
| RI | 0.60 | 0.80 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 | 10.00 | 20.00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DRR | 0.37 | 0.46 | 0.53 | 0.60 | 0.66 | 0.74 | 0.79 | 0.82 | 0.86 | 0.89 | 0.94 | 0.97 |
| RC | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |

Zonal Flux per 1000 Lumen

| Y° | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZF(Y) | 42 | 161 | 338 | 538 | 724 | 862 | 946 | 987 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

CIE Flux Codes
57 86 97 100 100

| | | | |
|---|---|---|---|
| C.I.E. | 4/4/4/4/3/3/3/3/3/3/4 | LOR | 100.00000 % |
| D DIN 5040 | A40 | ULOR | 0.00000 % |
| F UTE | 1.00 D | DLOR | 100.00000 % |
| B NBN | BZ 3 | UFF | 0.00000 % |
| RN | 0.00000 % | DFF | 100.00000 % |
| BLF | 1.0 | FFR | 0.00000 % |




| Zonal Flux | | | | |
|---|---|---|---|---|
| Gamma ° | Flux | Sum lm | Flux [%] | Sum [%] |
| 0° | 0.00 | 0.00 | 0.00% | 0.00 % |
| 5° | 10.57 | 10.57 | 1.06 % | 1.06 % |
| 10° | 31.31 | 41.88 | 3.13 % | 4.19 % |
| 15° | 50.86 | 92.74 | 5.09 % | 9.27 % |
| 20° | 68.36 | 161.10 | 6.84 % | 16.11 % |
| 25° | 82.93 | 244.03 | 8.29 % | 24.40 % |
| 30° | 93.70 | 337.73 | 9.37 % | 33.77 % |
| 35° | 99.86 | 437.58 | 9.99 % | 43.76 % |
| 40° | 100.86 | 538.44 | 10.09 % | 53.84 % |
| 45° | 96.83 | 635.27 | 9.68 % | 63.53 % |
| 50° | 88.33 | 723.60 | 8.83 % | 72.36 % |
| 55° | 76.33 | 799.92 | 7.63 % | 79.99 % |
| 60° | 62.54 | 862.46 | 6.25 % | 86.25 % |
| 65° | 48.26 | 910.71 | 4.83 % | 91.07 % |
| 70° | 35.43 | 946.15 | 3.54 % | 94.61 % |
| 75° | 24.73 | 970.87 | 2.47 % | 97.09 % |
| 80° | 15.83 | 986.70 | 1.58 % | 98.67 % |
| 85° | 8.85 | 995.54 | 0.88 % | 99.55 % |
| 90° | 4.46 | 1000.00 | 0.45 % | 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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Utilizations CIE

Mounting Direct Normalization Normalised Suspension Ratio 1/3 Standard CIE Settings

Ceiling

| 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 | 208 | 187 | 158 | 143 | 178 | 136 | 109 | 92 | 81 | 69 | 44 | 33 | 17 | 12 | 65 | 36 | 31 | 14 | 11 | 30 | 12 | 10 | 0 |
| 0.80 | 241 | 221 | 167 | 154 | 210 | 147 | 137 | 120 | 93 | 81 | 53 | 42 | 24 | 17 | 76 | 44 | 40 | 20 | 17 | 38 | 17 | 15 | 0 |
| 1.00 | 263 | 245 | 168 | 157 | 233 | 150 | 160 | 143 | 98 | 88 | 60 | 49 | 30 | 23 | 83 | 51 | 47 | 26 | 22 | 44 | 23 | 20 | 0 |
| 1.25 | 283 | 266 | 165 | 156 | 253 | 150 | 184 | 167 | 103 | 94 | 66 | 56 | 37 | 29 | 88 | 57 | 53 | 32 | 28 | 51 | 29 | 26 | 0 |
| 1.50 | 297 | 282 | 161 | 154 | 269 | 148 | 203 | 186 | 105 | 97 | 71 | 62 | 43 | 35 | 92 | 62 | 59 | 38 | 34 | 56 | 34 | 31 | 0 |
| 2.00 | 316 | 303 | 151 | 146 | 289 | 141 | 232 | 217 | 106 | 100 | 77 | 69 | 52 | 45 | 95 | 69 | 66 | 48 | 43 | 63 | 44 | 40 | 0 |
| 2.50 | 328 | 318 | 144 | 140 | 303 | 136 | 253 | 239 | 107 | 102 | 81 | 75 | 60 | 53 | 97 | 75 | 72 | 55 | 51 | 69 | 51 | 48 | 0 |
| 3.00 | 337 | 328 | 138 | 135 | 313 | 132 | 268 | 256 | 107 | 102 | 85 | 79 | 66 | 59 | 98 | 78 | 76 | 61 | 57 | 73 | 57 | 53 | 0 |
| 4.00 | 350 | 342 | 132 | 130 | 328 | 127 | 291 | 280 | 107 | 104 | 90 | 85 | 74 | 68 | 100 | 84 | 82 | 69 | 66 | 79 | 65 | 62 | 0 |
| 5.00 | 358 | 352 | 129 | 127 | 337 | 124 | 306 | 297 | 108 | 105 | 93 | 89 | 79 | 74 | 101 | 88 | 86 | 75 | 72 | 83 | 71 | 68 | 0 |
| 10.00 | 376 | 373 | 120 | 119 | 358 | 117 | 340 | 334 | 108 | 107 | 100 | 97 | 92 | 89 | 104 | 96 | 95 | 88 | 86 | 92 | 85 | 82 | 0 |
| 20.00 | 385 | 384 | 115 | 115 | 369 | 113 | 359 | 356 | 108 | 108 | 104 | 102 | 99 | 97 | 105 | 100 | 100 | 96 | 95 | 97 | 93 | 91 | 0 |

Wall

| 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 | 438 | 427 | 375 | 367 | 420 | 363 | 331 | 324 | 293 | 288 | 245 | 241 | 211 | 209 | 285 | 242 | 240 | 210 | 209 | 239 | 209 | 209 | 188 |
| 0.80 | 488 | 476 | 403 | 395 | 467 | 390 | 380 | 371 | 325 | 320 | 279 | 274 | 244 | 242 | 316 | 274 | 272 | 243 | 241 | 271 | 241 | 240 | 216 |
| 1.00 | 518 | 506 | 415 | 408 | 495 | 402 | 413 | 403 | 344 | 338 | 300 | 295 | 266 | 263 | 333 | 294 | 292 | 264 | 262 | 290 | 262 | 260 | 233 |
| 1.25 | 544 | 532 | 422 | 416 | 519 | 410 | 443 | 432 | 358 | 353 | 318 | 312 | 286 | 282 | 346 | 311 | 309 | 282 | 280 | 306 | 280 | 278 | 247 |
| 1.50 | 562 | 552 | 425 | 421 | 536 | 414 | 466 | 455 | 367 | 363 | 330 | 325 | 300 | 296 | 355 | 323 | 321 | 296 | 294 | 317 | 293 | 290 | 257 |
| 2.00 | 578 | 568 | 418 | 414 | 550 | 407 | 490 | 479 | 370 | 366 | 339 | 334 | 313 | 308 | 358 | 331 | 329 | 308 | 305 | 324 | 303 | 300 | 263 |
| 2.50 | 586 | 578 | 411 | 408 | 558 | 401 | 505 | 495 | 370 | 367 | 344 | 339 | 321 | 316 | 358 | 335 | 333 | 315 | 312 | 327 | 309 | 305 | 265 |
| 3.00 | 591 | 583 | 404 | 402 | 561 | 395 | 515 | 505 | 368 | 365 | 345 | 340 | 324 | 320 | 356 | 336 | 334 | 318 | 315 | 328 | 312 | 307 | 265 |
| 4.00 | 604 | 598 | 403 | 401 | 574 | 394 | 536 | 528 | 373 | 370 | 354 | 350 | 337 | 332 | 361 | 344 | 342 | 329 | 327 | 335 | 322 | 316 | 271 |
| 5.00 | 616 | 611 | 405 | 403 | 585 | 397 | 553 | 545 | 379 | 377 | 363 | 359 | 348 | 344 | 366 | 352 | 351 | 339 | 337 | 343 | 332 | 325 | 278 |
| 10.00 | 647 | 644 | 415 | 415 | 616 | 408 | 596 | 592 | 398 | 397 | 388 | 386 | 379 | 376 | 385 | 377 | 376 | 369 | 367 | 366 | 359 | 350 | 300 |
| 20.00 | 665 | 664 | 421 | 421 | 633 | 414 | 622 | 620 | 409 | 408 | 403 | 402 | 398 | 396 | 396 | 391 | 391 | 387 | 386 | 380 | 376 | 366 | 313 |

Working Pl.

| 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 | 644 | 632 | 601 | 592 | 624 | 587 | 516 | 508 | 497 | 491 | 436 | 431 | 392 | 390 | 488 | 432 | 430 | 390 | 389 | 429 | 389 | 389 | 373 |
| 0.80 | 751 | 737 | 692 | 683 | 726 | 675 | 618 | 608 | 590 | 583 | 528 | 523 | 482 | 479 | 577 | 522 | 520 | 480 | 478 | 518 | 478 | 477 | 460 |
| 1.00 | 834 | 820 | 760 | 752 | 805 | 743 | 702 | 690 | 664 | 657 | 605 | 598 | 559 | 555 | 649 | 597 | 594 | 555 | 553 | 591 | 553 | 551 | 535 |
| 1.25 | 910 | 896 | 820 | 813 | 877 | 803 | 781 | 768 | 732 | 725 | 676 | 669 | 632 | 627 | 715 | 667 | 664 | 627 | 625 | 659 | 623 | 620 | 605 |
| 1.50 | 966 | 952 | 863 | 856 | 930 | 845 | 840 | 827 | 781 | 774 | 729 | 722 | 687 | 681 | 763 | 718 | 715 | 681 | 678 | 710 | 676 | 672 | 657 |
| 2.00 | 1000 | 1000 | 921 | 916 | 1000 | 905 | 930 | 916 | 852 | 847 | 809 | 801 | 772 | 765 | 833 | 796 | 793 | 764 | 760 | 785 | 757 | 751 | 737 |
| 2.50 | 1000 | 1000 | 957 | 952 | 1000 | 941 | 988 | 975 | 897 | 892 | 859 | 852 | 827 | 820 | 877 | 845 | 842 | 817 | 813 | 833 | 808 | 801 | 788 |
| 3.00 | 1000 | 1000 | 980 | 977 | 1000 | 965 | 1000 | 1000 | 927 | 923 | 895 | 888 | 866 | 859 | 907 | 879 | 876 | 854 | 850 | 866 | 844 | 836 | 823 |
| 4.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 993 | 1000 | 1000 | 963 | 959 | 936 | 930 | 912 | 905 | 942 | 919 | 917 | 899 | 895 | 904 | 887 | 876 | 864 |
| 5.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 984 | 981 | 961 | 956 | 940 | 934 | 962 | 943 | 941 | 926 | 922 | 927 | 912 | 900 | 889 |
| 10.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 998 | 1000 | 994 | 993 | 983 | 981 | 975 | 966 | 951 | 940 |
| 20.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 997 | 979 | 969 |

**LM53 SHR C0-C180: 1.190 SHR C90-C270: 1.190 SHR Square: 1.265**

**Luminaire**
Code DE-0500-BLA
Name TENDER
**Measurem.**
Code DE-0500-BLA
Name TENDER

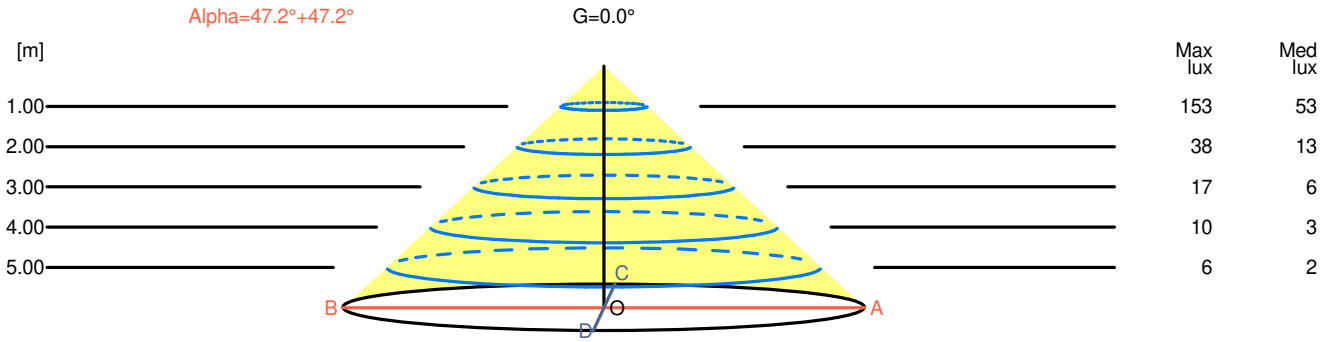
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Luminaire Flux | 344.95 lm | Luminaire Power | 4.60 W | Efficacy | 74.99 lm/W | Efficiency | 100.00% |
| Sources Flux | 344.95 lm | Maximum value | 443.04 cd/klm | Position | C=0.00 G=0.00 | CG | Rotosymmetrical |

Width at 50.00 % of Max Intensity

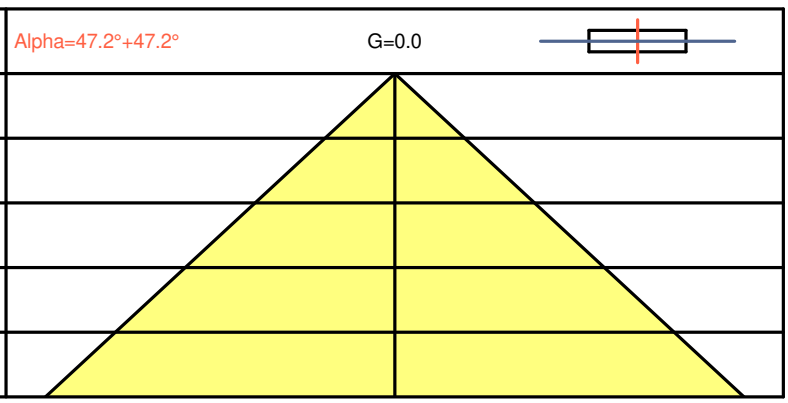
| H[m] | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 | H[m] | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OA | 1.08 | 2.16 | 3.24 | 4.32 | 5.40 | OC | 1.08 | 2.16 | 3.24 | 4.32 | 5.40 |
| OB | 1.08 | 2.16 | 3.24 | 4.32 | 5.40 | OD | 1.08 | 2.16 | 3.24 | 4.32 | 5.40 |

Luminous Intensities [ cd/klm]

| | 0 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 |
|---|---|---|---|---|---|---|---|---|---|---|
| OA | 152.83 | 152.08 | 145.91 | 132.52 | 111.04 | 82.97 | 53.44 | 28.76 | 13.01 | 3.85 |
| OB | 152.83 | 152.08 | 145.91 | 132.52 | 111.04 | 82.97 | 53.44 | 28.76 | 13.01 | 3.85 |
| OC | 152.83 | 152.08 | 145.91 | 132.52 | 111.04 | 82.97 | 53.44 | 28.76 | 13.01 | 3.85 |
| OD | 152.83 | 152.08 | 145.91 | 132.52 | 111.04 | 82.97 | 53.44 | 28.76 | 13.01 | 3.85 |




| H[m] | D[m] | Max lux | Med lux |
|---|---|---|---|
| 1.00 | 2.16 | 153 | 53 |
| 2.00 | 4.32 | 38 | 13 |
| 3.00 | 6.48 | 17 | 6 |
| 4.00 | 8.64 | 10 | 3 |
| 5.00 | 10.80 | 6 | 2 |

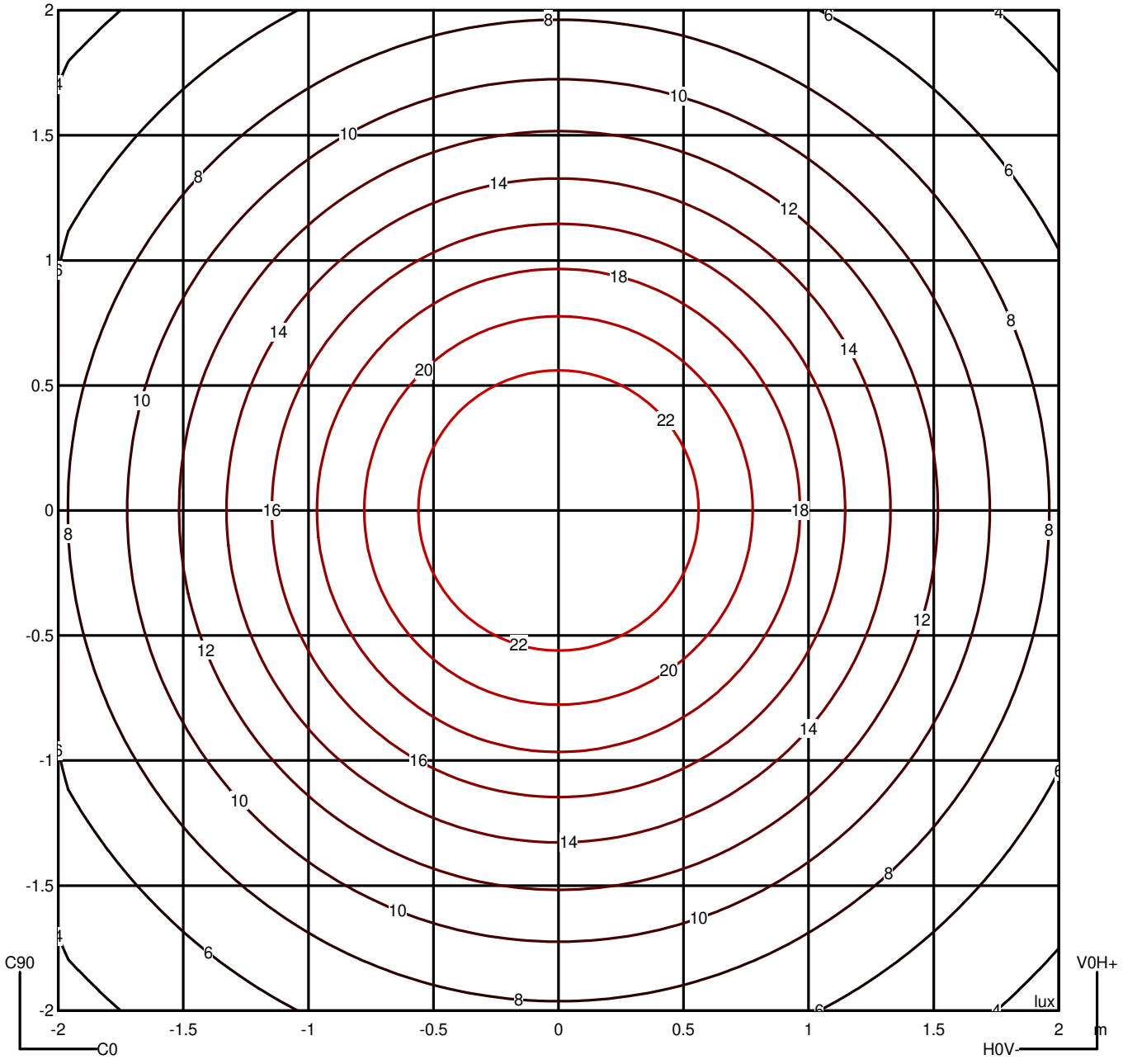


**Luminaire**
Code DE-0500-BLA
Name TENDER
**Measurem.**
Code DE-0500-BLA
Name TENDER

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Luminaire Flux | 344.95 lm | Luminaire Power | 4.60 W | Efficacy | 74.99 lm/W | Efficiency | 100.00% |
| Sources Flux | 344.95 lm | Maximum value | 443.04 cd/klm | Position | C=0.00 G=0.00 | CG | Rotosymmetrical |

Isolux (Floor)

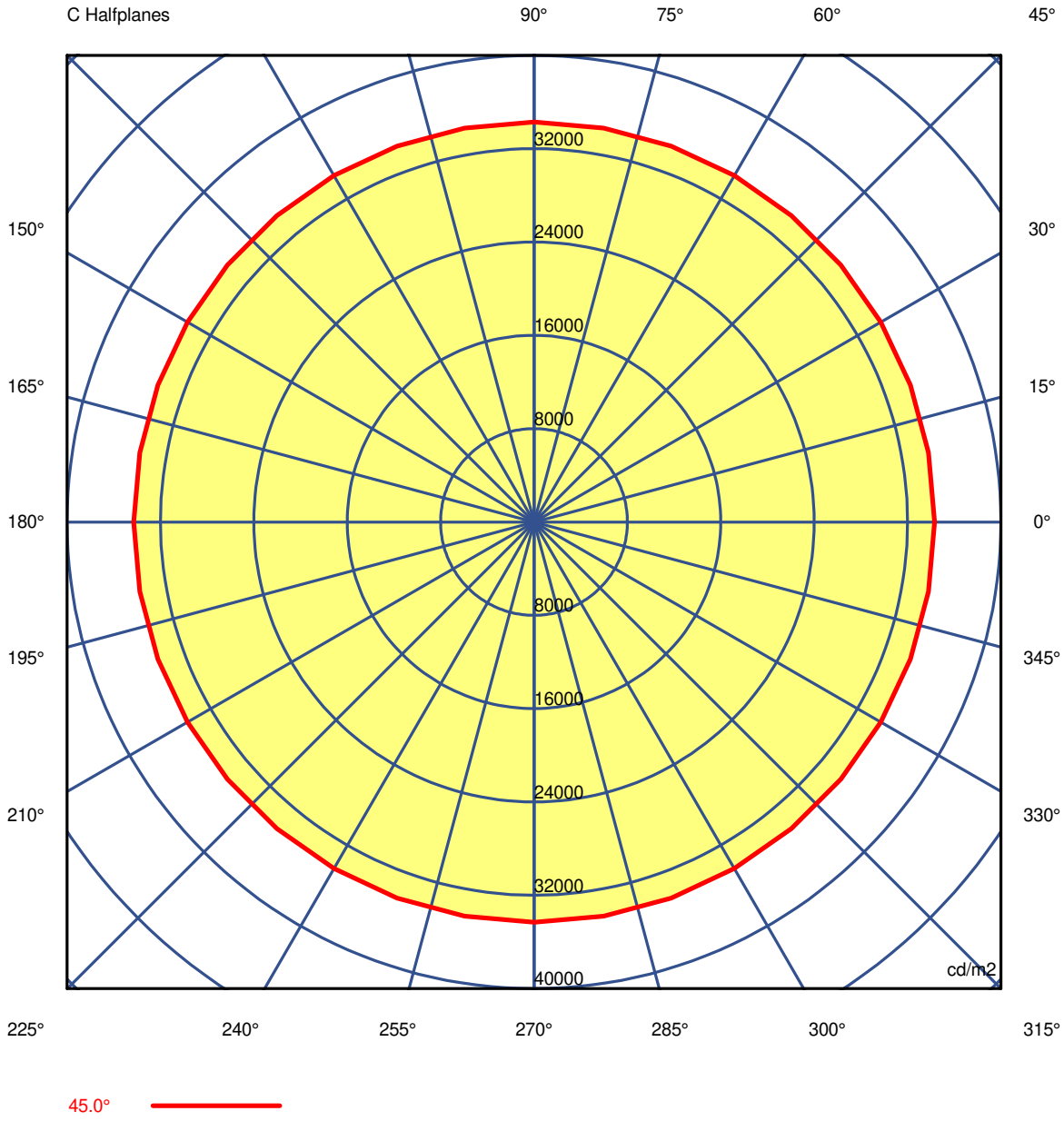
Luminaire position X=0.00m Y=0.00m Z=2.50m



**Luminaire**
Code DE-0500-BLA
Name TENDER
**Measurem.**
Code DE-0500-BLA
Name TENDER

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Luminaire Flux | 344.95 lm | Luminaire Power | 4.60 W | Efficacy | 74.99 lm/W | Efficiency | 100.00% |
| Sources Flux | 344.95 lm | Maximum value | 443.04 cd/klm | Position | C=0.00 G=0.00 | CG | Rotosymmetrical |

Luminance



**Luminaire**
Code DE-0500-BLA
Name TENDER
**Measurem.**
Code DE-0500-BLA
Name TENDER

| Luminaire Flux | 344.95 lm | Luminaire Power | 4.60 W | Efficacy | 74.99 lm/W | Efficiency | 100.00% |
|---|---|---|---|---|---|---|---|
| Sources Flux | 344.95 lm | Maximum value | 443.04 cd/klm | Position | C=0.00 G=0.00 | CG | Rotosymmetrical |

**Luminance cd/m2** **Table 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 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 |
| G 5.0 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 |
| G 10.0 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 |
| G 15.0 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 |
| G 20.0 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 |
| G 25.0 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 |
| G 30.0 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 |
| G 35.0 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 |
| G 40.0 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 |
| G 45.0 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 |
| G 50.0 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 |
| G 55.0 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 |
| G 60.0 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 |
| G 65.0 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 |
| G 70.0 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 |
| G 75.0 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 |
| G 80.0 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 |
| G 85.0 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 |
| 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 |

**Luminaire**
Code DE-0500-BLA
Name TENDER
**Measurem.**
Code DE-0500-BLA
Name TENDER

| Luminaire Flux | 344.95 lm | Luminaire Power | 4.60 W | Efficacy | 74.99 lm/W | Efficiency | 100.00% |
|---|---|---|---|---|---|---|---|
| Sources Flux | 344.95 lm | Maximum value | 443.04 cd/klm | Position | C=0.00 G=0.00 | CG | Rotosymmetrical |

**Luminance cd/m2** **Table 2/3**

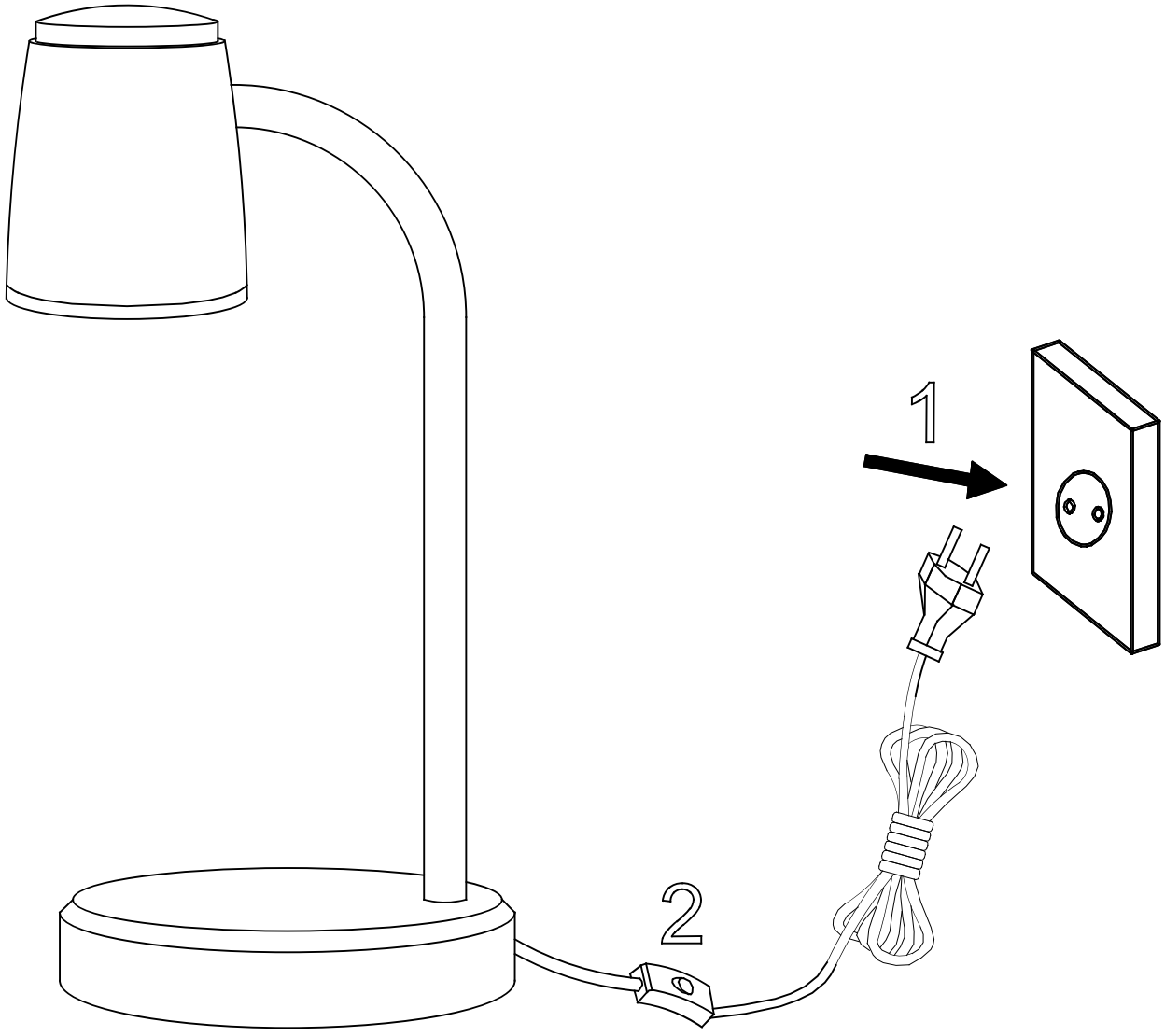
| | C 130.00 | C 140.00 | C 150.00 | C 160.00 | C 170.00 | C 180.00 | C 190.00 | C 200.00 | C 210.00 | C 220.00 | C 230.00 | C 240.00 | C 250.00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 0.0 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 |
| G 5.0 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 |
| G 10.0 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 |
| G 15.0 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 |
| G 20.0 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 |
| G 25.0 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 |
| G 30.0 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 |
| G 35.0 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 |
| G 40.0 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 |
| G 45.0 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 |
| G 50.0 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 |
| G 55.0 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 |
| G 60.0 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 |
| G 65.0 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 |
| G 70.0 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 |
| G 75.0 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 |
| G 80.0 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 |
| G 85.0 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 |
| 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 |

**Luminaire**
Code DE-0500-BLA
Name TENDER
**Measurem.**
Code DE-0500-BLA
Name TENDER

| Luminaire Flux | 344.95 lm | Luminaire Power | 4.60 W | Efficacy | 74.99 lm/W | Efficiency | 100.00% |
|---|---|---|---|---|---|---|---|
| Sources Flux | 344.95 lm | Maximum value | 443.04 cd/klm | Position | C=0.00 G=0.00 | CG | Rotosymmetrical |

**Luminance cd/m2** **Table 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 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 | 44671.05 |
| G 5.0 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 | 44623.32 |
| G 10.0 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 | 44471.14 |
| G 15.0 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 | 44152.96 |
| G 20.0 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 | 43602.63 |
| G 25.0 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 | 42738.82 |
| G 30.0 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 | 41445.12 |
| G 35.0 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 | 39622.87 |
| G 40.0 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 | 37215.94 |
| G 45.0 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 | 34298.98 |
| G 50.0 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 | 30904.74 |
| G 55.0 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 | 27232.73 |
| G 60.0 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 | 23512.62 |
| G 65.0 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 | 19890.91 |
| G 70.0 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 | 17018.96 |
| G 75.0 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 | 14688.61 |
| G 80.0 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 | 12886.60 |
| G 85.0 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 | 12895.81 |
| G 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |


1
2