

## Luminaria

Código 15-A125-05-F9\_2700K

Nombre SPARK

## Ensayo

Código 15-A125-05-F9\_2700K

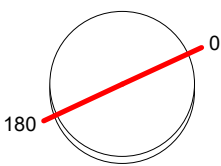
Nombre SPARK

|                            |        |                    |               |                               |                |               |               |
|----------------------------|--------|--------------------|---------------|-------------------------------|----------------|---------------|---------------|
| Flujo Luminaria            | 380 lm | Potencia Luminaria | 10.0 W        | Eficacia                      | 37.959 lm/W    | Eficiencia    | 100.00%       |
| Flujo Fuente               | 380 lm | Valor Máximo       | 181.31 cd/klm | Posición                      | C=0.00 G=33.00 | CG            | Rotosimétrico |
| Luminaria Redonda          |        | Diam.              | 135 mm        | Altura                        | 135 mm         |               |               |
| Área Luminosa Redonda      |        | Diam.              | 135 mm        | Altura                        | 108 mm         |               |               |
| Área Luminosa Horizontal   |        | 0.014314 m2        |               | Área Emisión sobre Pl. 180°   |                | 0.014580 m2   |               |
| Área Emisión sobre Pl. 0°  |        | 0.014580 m2        |               | Área Emisión sobre Pl. 270°   |                | 0.014580 m2   |               |
| Área Emisión sobre Pl. 90° |        | 0.014580 m2        |               | Área de deslumbramiento a 76° |                | 0.017610 m2   |               |
| Sist. de Coorden.          |        | CG                 |               | Tipo de Simetría              |                | Rotosimétrico |               |
| Fecha                      |        | 14-09-2022         |               | Máximo Ángulo Gamma           |                | 90            |               |
| Distancia de Ensayo        |        | 0.00               |               | Flujo de Ensayo               |                | 380 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. |
|---------|------------------|------------|------------|----------|-------|
|         |                  |            | 379.59     | 10.00    | 1     |
| C.I.E.  | 28 55 80 100 100 | D DIN 5040 | A10        |          |       |
| F UTE   | 1.00 J           | B NBN      | BZ 7       |          |       |

Diam=135mm



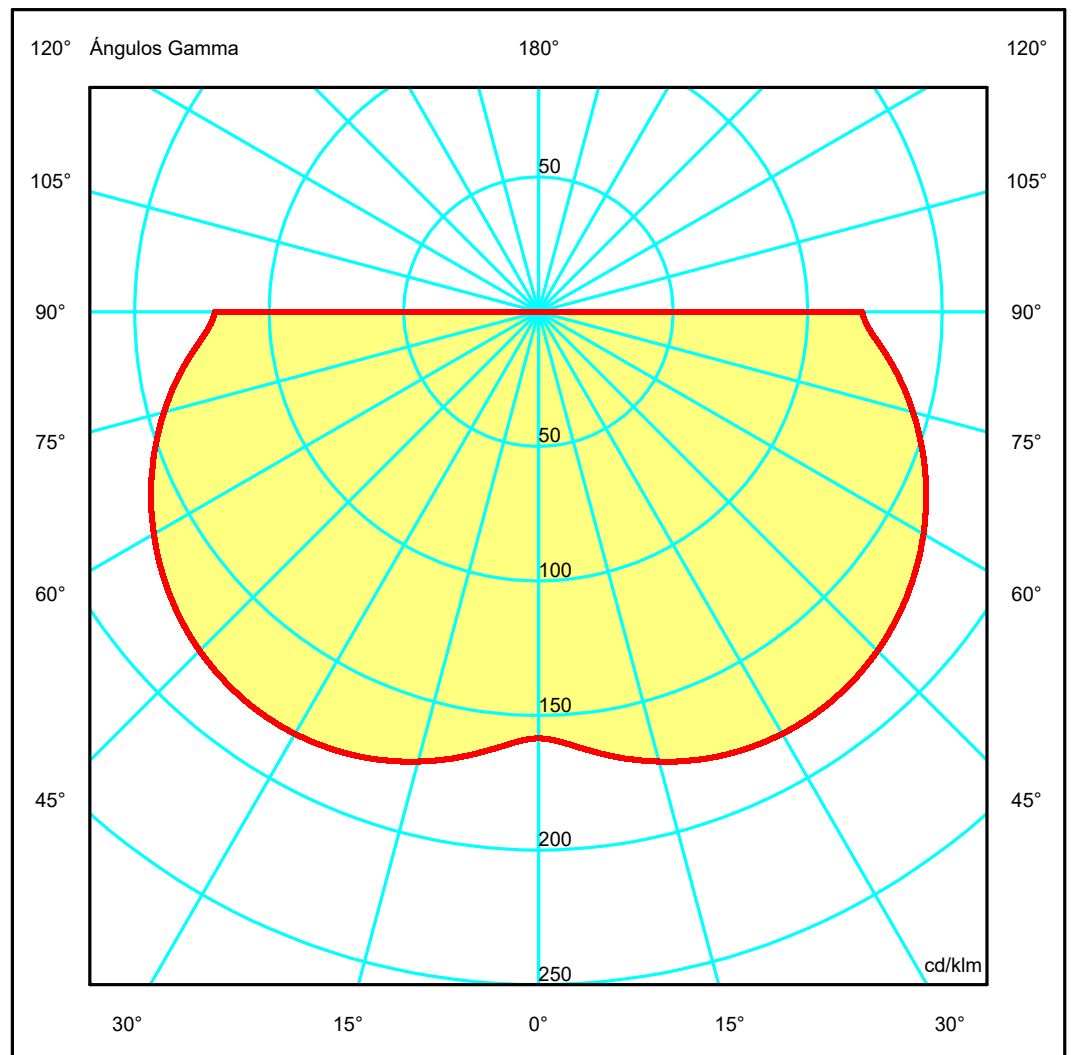
Semiplanos C

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  | 158.42 | G 46.0 177.51 |
| G 1.0  | 158.64 | G 47.0 176.89 |
| G 2.0  | 159.16 | G 48.0 176.23 |
| G 3.0  | 159.99 | G 49.0 175.54 |
| G 4.0  | 160.98 | G 50.0 174.77 |
| G 5.0  | 162.17 | G 51.0 174.00 |
| G 6.0  | 163.31 | G 52.0 173.16 |
| G 7.0  | 164.54 | G 53.0 172.31 |
| G 8.0  | 165.69 | G 54.0 171.39 |
| G 9.0  | 166.85 | G 55.0 170.44 |
| G 10.0 | 167.98 | G 56.0 169.44 |
| G 11.0 | 169.04 | G 57.0 168.40 |
| G 12.0 | 170.11 | G 58.0 167.34 |
| G 13.0 | 171.08 | G 59.0 166.23 |
| G 14.0 | 172.08 | G 60.0 165.11 |
| G 15.0 | 172.97 | G 61.0 163.91 |
| G 16.0 | 173.86 | G 62.0 162.72 |
| G 17.0 | 174.68 | G 63.0 161.45 |
| G 18.0 | 175.46 | G 64.0 160.18 |
| G 19.0 | 176.19 | G 65.0 158.87 |
| G 20.0 | 176.87 | G 66.0 157.52 |
| G 21.0 | 177.52 | G 67.0 156.16 |
| G 22.0 | 178.09 | G 68.0 154.73 |
| G 23.0 | 178.65 | G 69.0 153.32 |
| G 24.0 | 179.13 | G 70.0 151.82 |
| G 25.0 | 179.58 | G 71.0 150.34 |
| G 26.0 | 179.96 | G 72.0 148.80 |
| G 27.0 | 180.30 | G 73.0 147.27 |
| G 28.0 | 180.59 | G 74.0 145.68 |
| G 29.0 | 180.83 | G 75.0 144.06 |
| G 30.0 | 181.03 | G 76.0 142.42 |
| G 31.0 | 181.16 | G 77.0 140.73 |
| G 32.0 | 181.27 | G 78.0 139.05 |
| G 33.0 | 181.31 | G 79.0 137.30 |
| G 34.0 | 181.30 | G 80.0 135.58 |
| G 35.0 | 181.25 | G 81.0 133.78 |
| G 36.0 | 181.14 | G 82.0 131.98 |
| G 37.0 | 180.99 | G 83.0 130.14 |
| G 38.0 | 180.79 | G 84.0 128.24 |
| G 39.0 | 180.54 | G 85.0 126.35 |
| G 40.0 | 180.25 | G 86.0 124.54 |
| G 41.0 | 179.90 | G 87.0 123.00 |
| G 42.0 | 179.52 | G 88.0 121.72 |
| G 43.0 | 179.07 | G 89.0 120.81 |
| G 44.0 | 178.60 | G 90.0 120.16 |
| G 45.0 | 178.07 |               |

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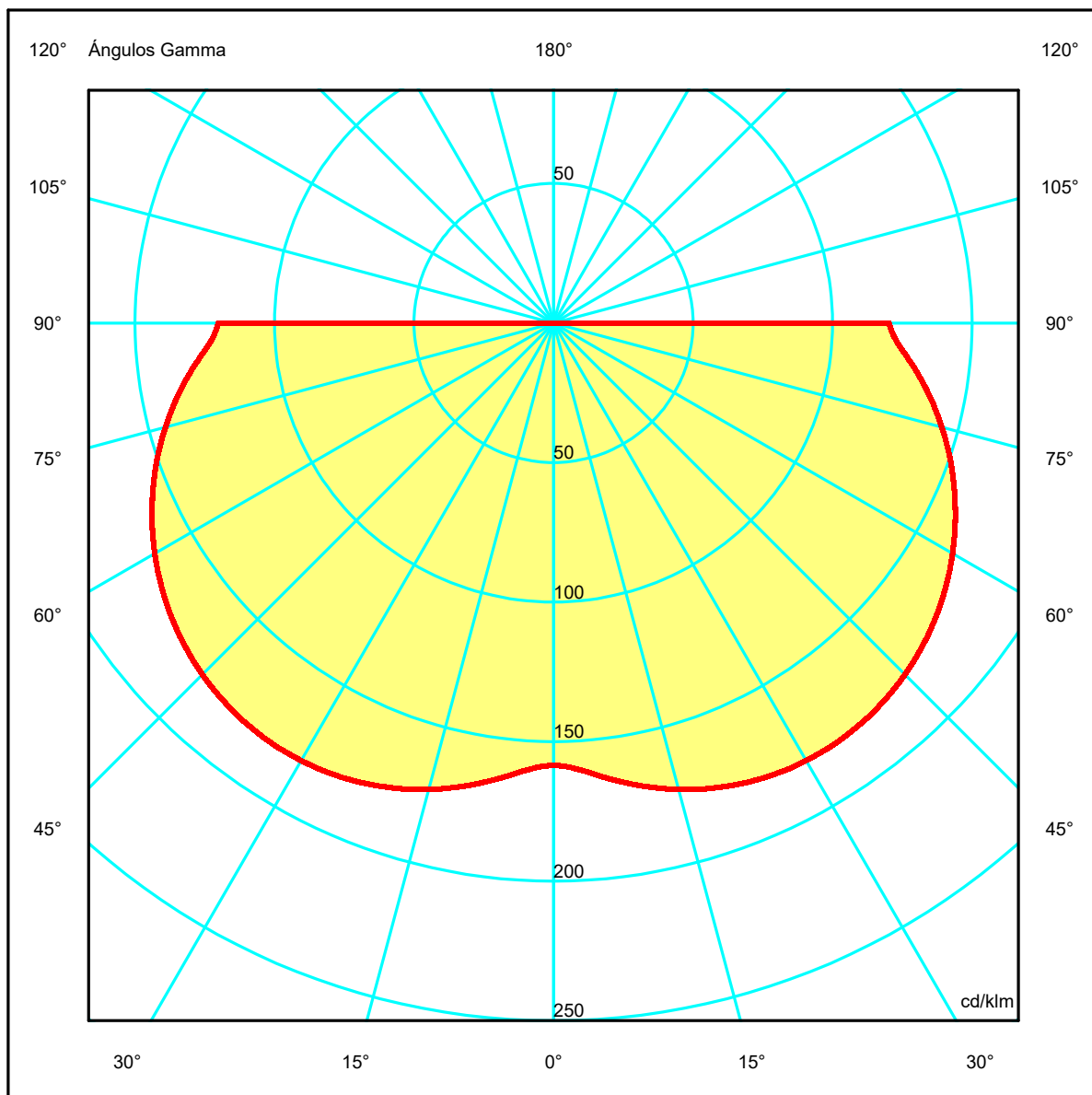
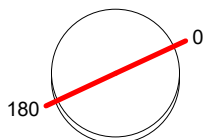
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| Flujo Fuente    | 380 lm | Valor Máximo       | 181.31 cd/klm | Posición | C=0.00 G=33.00 | CG         | Rotosimétrico |

Diam=135mm

Semiplanos C

180.0  0.0



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Nombre SPARK

## Ensayo

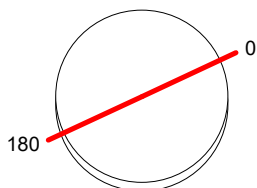
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180.0 ————— 0.0



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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 Longitudinal |      |      |      |      |
|                       | Mista Lateral |      |      |      |      |                    |      |      |      |      |
| x=2H y=2H             | 16.6          | 18.2 | 16.9 | 18.5 | 18.7 | 16.6               | 18.2 | 16.9 | 18.5 | 18.7 |
| x=2H y=3H             | 18.8          | 20.4 | 19.2 | 20.7 | 21.0 | 18.8               | 20.4 | 19.2 | 20.7 | 21.0 |
| x=2H y=4H             | 20.0          | 21.5 | 20.4 | 21.8 | 22.1 | 20.0               | 21.5 | 20.4 | 21.8 | 22.1 |
| x=2H y=6H             | 21.1          | 22.5 | 21.5 | 22.8 | 23.2 | 21.1               | 22.5 | 21.5 | 22.8 | 23.2 |
| x=2H y=8H             | 21.7          | 23.0 | 22.0 | 23.3 | 23.7 | 21.7               | 23.0 | 22.0 | 23.3 | 23.7 |
| x=2H y=12H            | 22.2          | 23.5 | 22.6 | 23.8 | 24.2 | 22.2               | 23.5 | 22.6 | 23.8 | 24.2 |
| x=4H y=2H             | 17.4          | 18.9 | 17.8 | 19.2 | 19.5 | 17.4               | 18.9 | 17.8 | 19.2 | 19.5 |
| x=4H y=3H             | 19.9          | 21.2 | 20.3 | 21.6 | 21.9 | 19.9               | 21.2 | 20.3 | 21.6 | 21.9 |
| x=4H y=4H             | 21.2          | 22.4 | 21.6 | 22.8 | 23.2 | 21.2               | 22.4 | 21.6 | 22.8 | 23.2 |
| x=4H y=6H             | 22.5          | 23.6 | 23.0 | 24.0 | 24.4 | 22.5               | 23.6 | 23.0 | 24.0 | 24.4 |
| x=4H y=8H             | 23.2          | 24.2 | 23.6 | 24.6 | 25.0 | 23.2               | 24.2 | 23.6 | 24.6 | 25.0 |
| x=4H y=12H            | 23.8          | 24.7 | 24.2 | 25.2 | 25.6 | 23.8               | 24.7 | 24.2 | 25.2 | 25.6 |
| x=8H y=4H             | 21.8          | 22.8 | 22.2 | 23.2 | 23.7 | 21.8               | 22.8 | 22.2 | 23.2 | 23.7 |
| x=8H y=6H             | 23.3          | 24.2 | 23.8 | 24.6 | 25.1 | 23.3               | 24.2 | 23.8 | 24.6 | 25.1 |
| x=8H y=8H             | 24.1          | 24.9 | 24.6 | 25.4 | 25.9 | 24.1               | 24.9 | 24.6 | 25.4 | 25.9 |
| x=8H y=12H            | 24.9          | 25.6 | 25.4 | 26.1 | 26.6 | 24.9               | 25.6 | 25.4 | 26.1 | 26.6 |
| x=12H y=4H            | 21.9          | 22.8 | 22.3 | 23.3 | 23.7 | 21.9               | 22.8 | 22.3 | 23.3 | 23.7 |
| x=12H y=6H            | 23.5          | 24.3 | 24.0 | 24.8 | 25.3 | 23.5               | 24.3 | 24.0 | 24.8 | 25.3 |
| x=12H y=8H            | 24.4          | 25.1 | 24.9 | 25.6 | 26.1 | 24.4               | 25.1 | 24.9 | 25.6 | 26.1 |

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| Flujo Fuente    | 380 lm | Valor Máximo       | 181.31 cd/klm | Posición | C=0.00 G=33.00 | CG         | Rotosimétrico |

Flujo Total=379.59 Flujo Luminaria=379.59

|     |      |      |      |      |      |      |      |      |      |      |       |       |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|
| 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 | 0.18 | 0.24 | 0.30 | 0.36 | 0.41 | 0.50 | 0.56 | 0.61 | 0.67 | 0.72 | 0.83  | 0.90  |
| RC  | 9    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8     | 8     |

Flujo Zonal por 1000 Lúmenes

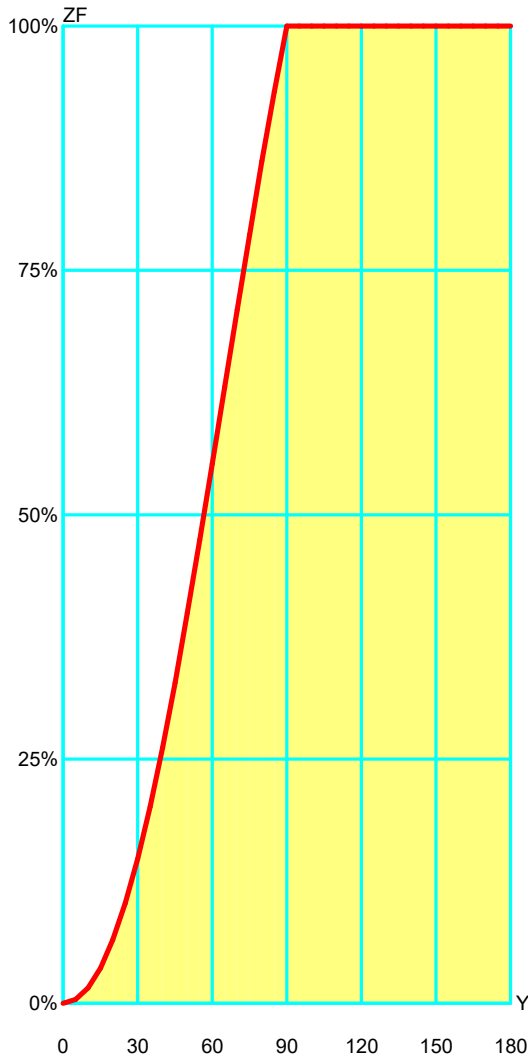
|       |    |    |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |
|-------|----|----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| Y°    | 10 | 20 | 30  | 40  | 50  | 60  | 70  | 80  | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  |
| ZF(Y) | 16 | 65 | 148 | 262 | 399 | 552 | 709 | 862 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

Códigos de Flujo C.I.E.

28 55 80 100 100

|            |                     |
|------------|---------------------|
| C.I.E.     | 9/8/8/8/8/8/8/8/8/8 |
| D DIN 5040 | A10                 |
| F UTE      | 1.00 J              |
| B NBN      | BZ 7                |
| 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°          | 3.84  | 3.84    | 0.38 %    | 0.38 %   |
| 10°         | 11.83 | 15.67   | 1.18 %    | 1.57 %   |
| 15°         | 20.25 | 35.92   | 2.03 %    | 3.59 %   |
| 20°         | 28.86 | 64.79   | 2.89 %    | 6.48 %   |
| 25°         | 37.42 | 102.20  | 3.74 %    | 10.22 %  |
| 30°         | 45.66 | 147.86  | 4.57 %    | 14.79 %  |
| 35°         | 53.38 | 201.24  | 5.34 %    | 20.12 %  |
| 40°         | 60.34 | 261.58  | 6.03 %    | 26.16 %  |
| 45°         | 66.37 | 327.96  | 6.64 %    | 32.80 %  |
| 50°         | 71.33 | 399.28  | 7.13 %    | 39.93 %  |
| 55°         | 75.09 | 474.37  | 7.51 %    | 47.44 %  |
| 60°         | 77.58 | 551.95  | 7.76 %    | 55.19 %  |
| 65°         | 78.78 | 630.73  | 7.88 %    | 63.07 %  |
| 70°         | 78.70 | 709.42  | 7.87 %    | 70.94 %  |
| 75°         | 77.36 | 786.79  | 7.74 %    | 78.68 %  |
| 80°         | 74.84 | 861.63  | 7.48 %    | 86.16 %  |
| 85°         | 71.20 | 932.83  | 7.12 %    | 93.28 %  |
| 90°         | 67.17 | 1000.00 | 6.72 %    | 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    | 235     | 211           | 196  | 177  | 201  | 169  | 117  | 99   | 98   | 84   | 51   | 38           | 17   | 11   | 78   | 41   | 36   | 14   | 11   | 34   | 12   | 10                | 0    |  |              |  |  |
| 0.80    | 274     | 251           | 215  | 199  | 239  | 190  | 147  | 128  | 116  | 102  | 62   | 50           | 22   | 16   | 95   | 52   | 47   | 19   | 16   | 45   | 16   | 14                | 0    |  |              |  |  |
| 1.00    | 301     | 280           | 223  | 209  | 266  | 200  | 171  | 152  | 126  | 113  | 71   | 58           | 28   | 21   | 106  | 60   | 55   | 24   | 20   | 52   | 21   | 19                | 0    |  |              |  |  |
| 1.25    | 324     | 305           | 226  | 214  | 290  | 206  | 194  | 176  | 134  | 122  | 78   | 66           | 34   | 27   | 115  | 68   | 63   | 29   | 26   | 60   | 26   | 24                | 0    |  |              |  |  |
| 1.50    | 340     | 323           | 225  | 215  | 307  | 207  | 213  | 196  | 138  | 128  | 83   | 73           | 39   | 32   | 121  | 74   | 69   | 34   | 31   | 66   | 31   | 28                | 0    |  |              |  |  |
| 2.00    | 359     | 345           | 217  | 210  | 329  | 203  | 241  | 226  | 141  | 133  | 90   | 81           | 47   | 41   | 126  | 81   | 77   | 43   | 39   | 74   | 39   | 36                | 0    |  |              |  |  |
| 2.50    | 370     | 358           | 208  | 203  | 342  | 197  | 262  | 247  | 142  | 135  | 95   | 87           | 54   | 48   | 129  | 87   | 83   | 50   | 46   | 80   | 46   | 43                | 0    |  |              |  |  |
| 3.00    | 378     | 367           | 201  | 196  | 351  | 191  | 277  | 264  | 141  | 135  | 98   | 91           | 59   | 53   | 129  | 90   | 87   | 55   | 52   | 84   | 51   | 48                | 0    |  |              |  |  |
| 4.00    | 386     | 378           | 189  | 185  | 362  | 181  | 298  | 287  | 139  | 135  | 101  | 96           | 67   | 62   | 129  | 95   | 92   | 63   | 60   | 89   | 60   | 57                | 0    |  |              |  |  |
| 5.00    | 391     | 385           | 180  | 177  | 368  | 173  | 312  | 302  | 137  | 134  | 103  | 99           | 73   | 68   | 129  | 98   | 96   | 69   | 66   | 92   | 66   | 63                | 0    |  |              |  |  |
| 10.00   | 399     | 395           | 155  | 154  | 379  | 151  | 343  | 338  | 129  | 127  | 107  | 105          | 87   | 84   | 123  | 103  | 102  | 84   | 82   | 99   | 81   | 78                | 0    |  |              |  |  |
| 20.00   | 400     | 398           | 137  | 136  | 382  | 134  | 361  | 358  | 121  | 121  | 108  | 107          | 96   | 94   | 117  | 105  | 104  | 93   | 92   | 102  | 90   | 88                | 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    | 526     | 513           | 477  | 467  | 506  | 462  | 399  | 391  | 373  | 367  | 313  | 308          | 269  | 267  | 363  | 308  | 307  | 268  | 267  | 306  | 267  | 266               | 247  |  |              |  |  |
| 0.80    | 611     | 597           | 544  | 534  | 587  | 527  | 478  | 468  | 440  | 433  | 377  | 371          | 330  | 328  | 428  | 372  | 369  | 329  | 327  | 368  | 327  | 326               | 304  |  |              |  |  |
| 1.00    | 677     | 663           | 593  | 584  | 650  | 576  | 542  | 531  | 492  | 485  | 430  | 423          | 381  | 378  | 478  | 423  | 420  | 379  | 377  | 418  | 377  | 376               | 350  |  |              |  |  |
| 1.25    | 741     | 728           | 640  | 632  | 712  | 623  | 608  | 597  | 544  | 538  | 483  | 477          | 435  | 431  | 529  | 475  | 473  | 431  | 430  | 469  | 429  | 427               | 399  |  |              |  |  |
| 1.50    | 793     | 780           | 677  | 670  | 762  | 661  | 662  | 651  | 587  | 580  | 528  | 521          | 480  | 476  | 571  | 519  | 517  | 476  | 474  | 512  | 473  | 471               | 440  |  |              |  |  |
| 2.00    | 867     | 856           | 729  | 724  | 835  | 713  | 744  | 733  | 648  | 643  | 594  | 588          | 548  | 544  | 632  | 584  | 582  | 543  | 541  | 576  | 539  | 536               | 502  |  |              |  |  |
| 2.50    | 922     | 912           | 768  | 763  | 889  | 753  | 806  | 795  | 695  | 690  | 645  | 639          | 602  | 597  | 678  | 635  | 632  | 596  | 594  | 626  | 591  | 587               | 550  |  |              |  |  |
| 3.00    | 965     | 957           | 799  | 795  | 932  | 785  | 855  | 846  | 732  | 728  | 686  | 681          | 645  | 641  | 716  | 675  | 673  | 639  | 637  | 666  | 634  | 629               | 590  |  |              |  |  |
| 4.00    | 1000    | 1000          | 852  | 849  | 1000 | 839  | 935  | 927  | 794  | 791  | 754  | 750          | 717  | 713  | 778  | 743  | 741  | 710  | 708  | 733  | 704  | 698               | 656  |  |              |  |  |
| 5.00    | 1000    | 1000          | 895  | 893  | 1000 | 884  | 998  | 990  | 844  | 841  | 808  | 804          | 775  | 771  | 828  | 796  | 795  | 767  | 765  | 786  | 760  | 753               | 709  |  |              |  |  |
| 10.00   | 1000    | 1000          | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 997  | 996  | 973  | 971          | 950  | 947  | 982  | 961  | 960  | 940  | 939  | 950  | 931  | 923               | 873  |  |              |  |  |
| 20.00   | 1000    | 1000          | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000         | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000              | 1000 |  |              |  |  |
| 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    | 499     | 485           | 465  | 455  | 477  | 448  | 346  | 338  | 333  | 326  | 255  | 251          | 199  | 198  | 322  | 251  | 249  | 198  | 197  | 247  | 197  | 197               | 176  |  |              |  |  |
| 0.80    | 598     | 582           | 550  | 539  | 569  | 529  | 434  | 423  | 414  | 405  | 331  | 324          | 268  | 266  | 398  | 323  | 321  | 266  | 265  | 318  | 264  | 263               | 241  |  |              |  |  |
| 1.00    | 677     | 660           | 617  | 606  | 643  | 594  | 508  | 495  | 480  | 472  | 396  | 388          | 330  | 326  | 462  | 386  | 384  | 327  | 325  | 380  | 324  | 323               | 300  |  |              |  |  |
| 1.25    | 754     | 738           | 679  | 669  | 716  | 655  | 584  | 570  | 547  | 538  | 463  | 454          | 396  | 391  | 526  | 452  | 448  | 391  | 389  | 443  | 388  | 385               | 362  |  |              |  |  |
| 1.50    | 814     | 798           | 727  | 718  | 773  | 703  | 646  | 631  | 600  | 591  | 517  | 509          | 450  | 445  | 576  | 505  | 501  | 445  | 442  | 494  | 440  | 437               | 414  |  |              |  |  |
| 2.00    | 903     | 889           | 796  | 788  | 859  | 772  | 742  | 728  | 680  | 673  | 604  | 595          | 539  | 533  | 655  | 589  | 585  | 532  | 529  | 576  | 526  | 520               | 498  |  |              |  |  |
| 2.50    | 965     | 952           | 842  | 835  | 918  | 819  | 811  | 797  | 736  | 729  | 666  | 657          | 605  | 598  | 710  | 649  | 646  | 596  | 592  | 635  | 588  | 581               | 560  |  |              |  |  |
| 3.00    | 1000    | 998           | 874  | 869  | 962  | 852  | 863  | 850  | 777  | 771  | 712  | 704          | 655  | 648  | 750  | 694  | 691  | 644  | 641  | 679  | 635  | 627               | 607  |  |              |  |  |
| 4.00    | 1000    | 1000          | 917  | 913  | 1000 | 896  | 935  | 923  | 833  | 828  | 776  | 769          | 724  | 718  | 805  | 756  | 754  | 712  | 709  | 740  | 701  | 691               | 672  |  |              |  |  |
| 5.00    | 1000    | 1000          | 944  | 941  | 1000 | 924  | 983  | 973  | 869  | 865  | 818  | 813          | 772  | 766  | 841  | 798  | 796  | 758  | 755  | 780  | 746  | 735               | 716  |  |              |  |  |
| 10.00   | 1000    | 1000          | 1000 | 1000 | 1000 | 987  | 1000 | 1000 | 953  | 951  | 920  | 917          | 889  | 885  | 927  | 899  | 897  | 872  | 870  | 879  | 856  | 841               | 825  |  |              |  |  |
| 20.00   | 1000    | 1000          | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 985  | 984          | 966  | 964  | 980  | 963  | 962  | 947  | 945  | 942  | 928  | 911               | 897  |  |              |  |  |

LM53 SHR C0-C180: 1.693 SHR C90-C270: 1.693 SHR Superficial: 1.831

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**Luminaria**

Código 15-A125-05-F9\_2700K

Nombre SPARK

**Ensayo**

Código 15-A125-05-F9\_2700K

Nombre SPARK

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|                 |        |                    |               |          |                |            |               |
|-----------------|--------|--------------------|---------------|----------|----------------|------------|---------------|
| Flujo Luminaria | 380 lm | Potencia Luminaria | 10.0 W        | Eficacia | 37.959 lm/W    | Eficiencia | 100.00%       |
| Flujo Fuente    | 380 lm | Valor Máximo       | 181.31 cd/klm | Posición | C=0.00 G=33.00 | CG         | Rotosimétrico |

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Apertura a la derecha no hallada, gamma =33

Apertura a la derecha no hallada, gamma =33



## Luminaria

Código 15-A125-05-F9\_2700K

Nombre SPARK

## Ensayo

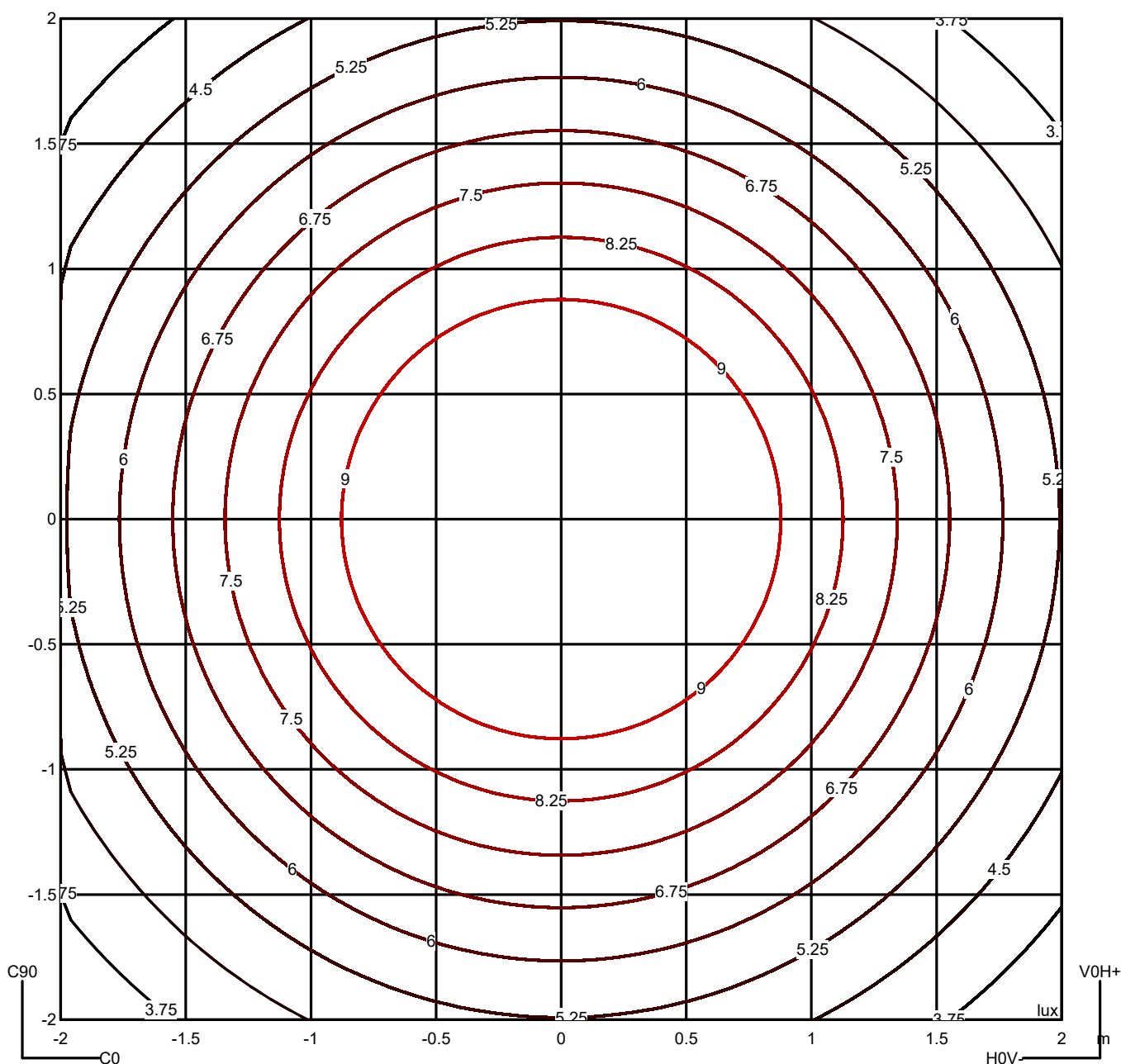
Código 15-A125-05-F9\_2700K

Nombre SPARK

|                 |        |                    |               |          |                |            |               |
|-----------------|--------|--------------------|---------------|----------|----------------|------------|---------------|
| Flujo Luminaria | 380 lm | Potencia Luminaria | 10.0 W        | Eficacia | 37.959 lm/W    | Eficiencia | 100.00%       |
| Flujo Fuente    | 380 lm | Valor Máximo       | 181.31 cd/klm | Posición | C=0.00 G=33.00 | CG         | Rotosimétrico |

Isolux (Suelo)

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



**Luminaria**

Código 15-A125-05-F9\_2700K

Nombre SPARK

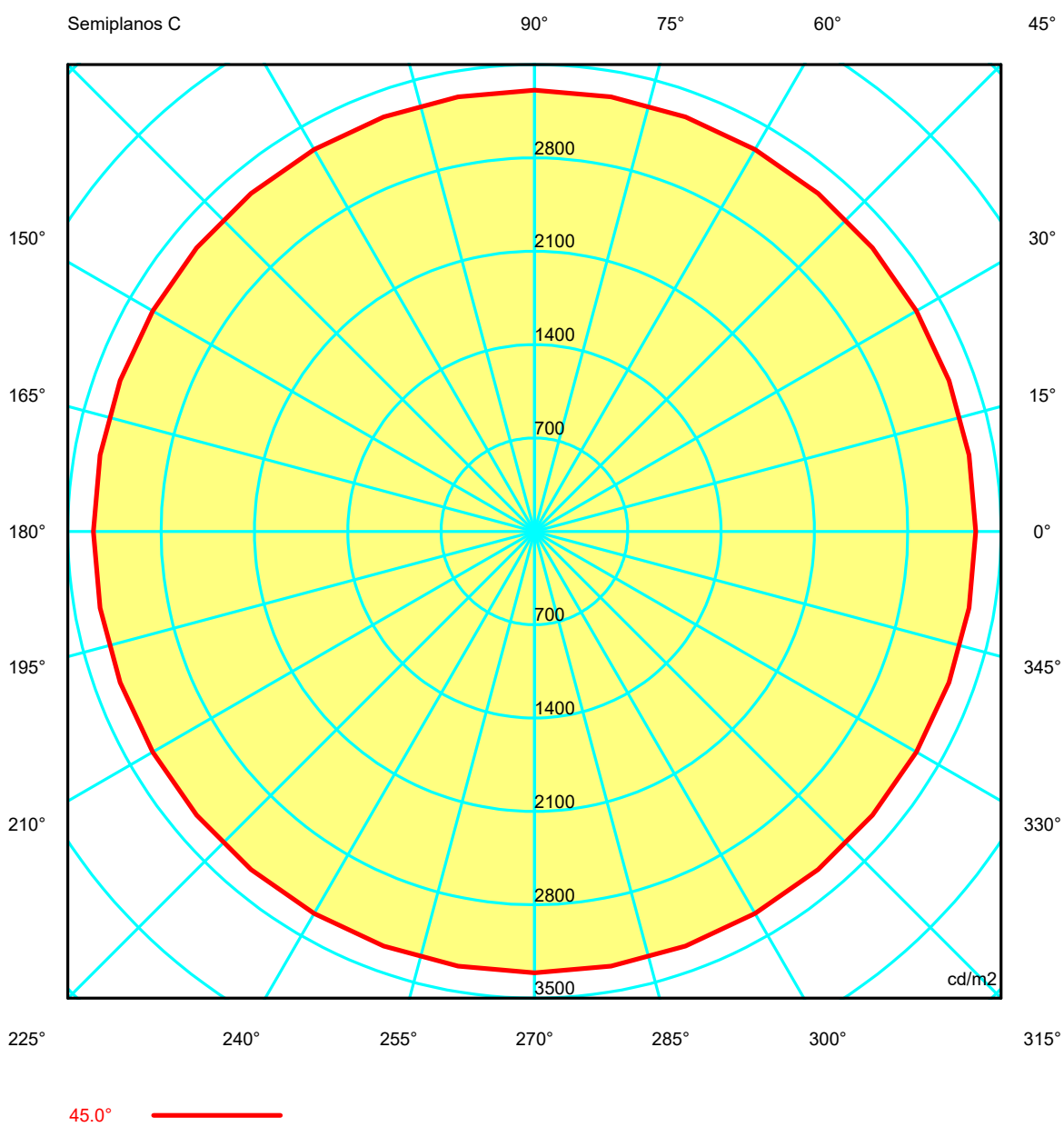
**Ensayo**

Código 15-A125-05-F9\_2700K

Nombre SPARK

|                 |        |                    |               |          |                |            |               |
|-----------------|--------|--------------------|---------------|----------|----------------|------------|---------------|
| Flujo Luminaria | 380 lm | Potencia Luminaria | 10.0 W        | Eficacia | 37.959 lm/W    | Eficiencia | 100.00%       |
| Flujo Fuente    | 380 lm | Valor Máximo       | 181.31 cd/klm | Posición | C=0.00 G=33.00 | CG         | Rotosimétrico |

Luminancia



**Luminaria**

Código 15-A125-05-F9\_2700K

Nombre SPARK

**Ensayo**

Código 15-A125-05-F9\_2700K

Nombre SPARK

|                 |        |                    |               |          |                |            |               |
|-----------------|--------|--------------------|---------------|----------|----------------|------------|---------------|
| Flujo Luminaria | 380 lm | Potencia Luminaria | 10.0 W        | Eficacia | 37.959 lm/W    | Eficiencia | 100.00%       |
| Flujo Fuente    | 380 lm | Valor Máximo       | 181.31 cd/klm | Posición | C=0.00 G=33.00 | 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  | 4201.05 | 4201.05 | 4201.05 | 4201.05 | 4201.05 | 4201.05 | 4201.05 | 4201.05 | 4201.05 | 4201.05 | 4201.05  | 4201.05  | 4201.05  |
| G 5.0  | 3963.70 | 3963.70 | 3963.70 | 3963.70 | 3963.70 | 3963.70 | 3963.70 | 3963.70 | 3963.70 | 3963.70 | 3963.70  | 3963.70  | 3963.70  |
| G 10.0 | 3834.66 | 3834.66 | 3834.66 | 3834.66 | 3834.66 | 3834.66 | 3834.66 | 3834.66 | 3834.66 | 3834.66 | 3834.66  | 3834.66  | 3834.66  |
| G 15.0 | 3730.53 | 3730.53 | 3730.53 | 3730.53 | 3730.53 | 3730.53 | 3730.53 | 3730.53 | 3730.53 | 3730.53 | 3730.53  | 3730.53  | 3730.53  |
| G 20.0 | 3641.32 | 3641.32 | 3641.32 | 3641.32 | 3641.32 | 3641.32 | 3641.32 | 3641.32 | 3641.32 | 3641.32 | 3641.32  | 3641.32  | 3641.32  |
| G 25.0 | 3562.48 | 3562.48 | 3562.48 | 3562.48 | 3562.48 | 3562.48 | 3562.48 | 3562.48 | 3562.48 | 3562.48 | 3562.48  | 3562.48  | 3562.48  |
| G 30.0 | 3490.56 | 3490.56 | 3490.56 | 3490.56 | 3490.56 | 3490.56 | 3490.56 | 3490.56 | 3490.56 | 3490.56 | 3490.56  | 3490.56  | 3490.56  |
| G 35.0 | 3424.90 | 3424.90 | 3424.90 | 3424.90 | 3424.90 | 3424.90 | 3424.90 | 3424.90 | 3424.90 | 3424.90 | 3424.90  | 3424.90  | 3424.90  |
| G 40.0 | 3364.37 | 3364.37 | 3364.37 | 3364.37 | 3364.37 | 3364.37 | 3364.37 | 3364.37 | 3364.37 | 3364.37 | 3364.37  | 3364.37  | 3364.37  |
| G 45.0 | 3308.28 | 3308.28 | 3308.28 | 3308.28 | 3308.28 | 3308.28 | 3308.28 | 3308.28 | 3308.28 | 3308.28 | 3308.28  | 3308.28  | 3308.28  |
| G 50.0 | 3256.91 | 3256.91 | 3256.91 | 3256.91 | 3256.91 | 3256.91 | 3256.91 | 3256.91 | 3256.91 | 3256.91 | 3256.91  | 3256.91  | 3256.91  |
| G 55.0 | 3210.21 | 3210.21 | 3210.21 | 3210.21 | 3210.21 | 3210.21 | 3210.21 | 3210.21 | 3210.21 | 3210.21 | 3210.21  | 3210.21  | 3210.21  |
| G 60.0 | 3167.94 | 3167.94 | 3167.94 | 3167.94 | 3167.94 | 3167.94 | 3167.94 | 3167.94 | 3167.94 | 3167.94 | 3167.94  | 3167.94  | 3167.94  |
| G 65.0 | 3130.56 | 3130.56 | 3130.56 | 3130.56 | 3130.56 | 3130.56 | 3130.56 | 3130.56 | 3130.56 | 3130.56 | 3130.56  | 3130.56  | 3130.56  |
| G 70.0 | 3099.01 | 3099.01 | 3099.01 | 3099.01 | 3099.01 | 3099.01 | 3099.01 | 3099.01 | 3099.01 | 3099.01 | 3099.01  | 3099.01  | 3099.01  |
| G 75.0 | 3074.31 | 3074.31 | 3074.31 | 3074.31 | 3074.31 | 3074.31 | 3074.31 | 3074.31 | 3074.31 | 3074.31 | 3074.31  | 3074.31  | 3074.31  |
| G 80.0 | 3055.31 | 3055.31 | 3055.31 | 3055.31 | 3055.31 | 3055.31 | 3055.31 | 3055.31 | 3055.31 | 3055.31 | 3055.31  | 3055.31  | 3055.31  |
| G 85.0 | 3040.96 | 3040.96 | 3040.96 | 3040.96 | 3040.96 | 3040.96 | 3040.96 | 3040.96 | 3040.96 | 3040.96 | 3040.96  | 3040.96  | 3040.96  |
| G 90.0 | 3128.45 | 3128.45 | 3128.45 | 3128.45 | 3128.45 | 3128.45 | 3128.45 | 3128.45 | 3128.45 | 3128.45 | 3128.45  | 3128.45  | 3128.45  |

**Luminaria**

Código 15-A125-05-F9\_2700K

Nombre SPARK

**Ensayo**

Código 15-A125-05-F9\_2700K

Nombre SPARK

|                 |        |                    |               |          |                |            |               |
|-----------------|--------|--------------------|---------------|----------|----------------|------------|---------------|
| Flujo Luminaria | 380 lm | Potencia Luminaria | 10.0 W        | Eficacia | 37.959 lm/W    | Eficiencia | 100.00%       |
| Flujo Fuente    | 380 lm | Valor Máximo       | 181.31 cd/klm | Posición | C=0.00 G=33.00 | 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  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  |
| G 5.0  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  |
| G 10.0 | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  |
| G 15.0 | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  |
| G 20.0 | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  |
| G 25.0 | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  |
| G 30.0 | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  |
| G 35.0 | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  |
| G 40.0 | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  |
| G 45.0 | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  |
| G 50.0 | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  |
| G 55.0 | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  |
| G 60.0 | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  |
| G 65.0 | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  |
| G 70.0 | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  |
| G 75.0 | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  |
| G 80.0 | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  |
| G 85.0 | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  |
| G 90.0 | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  |

**Luminaria**

Código 15-A125-05-F9\_2700K

Nombre SPARK

**Ensayo**

Código 15-A125-05-F9\_2700K

Nombre SPARK

|                 |        |                    |               |          |                |            |               |
|-----------------|--------|--------------------|---------------|----------|----------------|------------|---------------|
| Flujo Luminaria | 380 lm | Potencia Luminaria | 10.0 W        | Eficacia | 37.959 lm/W    | Eficiencia | 100.00%       |
| Flujo Fuente    | 380 lm | Valor Máximo       | 181.31 cd/klm | Posición | C=0.00 G=33.00 | 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  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  | 4201.05  |
| G 5.0  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  | 3963.70  |
| G 10.0 | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  | 3834.66  |
| G 15.0 | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  | 3730.53  |
| G 20.0 | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  | 3641.32  |
| G 25.0 | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  | 3562.48  |
| G 30.0 | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  | 3490.56  |
| G 35.0 | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  | 3424.90  |
| G 40.0 | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  | 3364.37  |
| G 45.0 | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  | 3308.28  |
| G 50.0 | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  | 3256.91  |
| G 55.0 | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  | 3210.21  |
| G 60.0 | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  | 3167.94  |
| G 65.0 | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  | 3130.56  |
| G 70.0 | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  | 3099.01  |
| G 75.0 | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  | 3074.31  |
| G 80.0 | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  | 3055.31  |
| G 85.0 | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  | 3040.96  |
| G 90.0 | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  | 3128.45  |

## Luminaria

Código 15-A125-05-F9\_2700K

Nombre SPARK

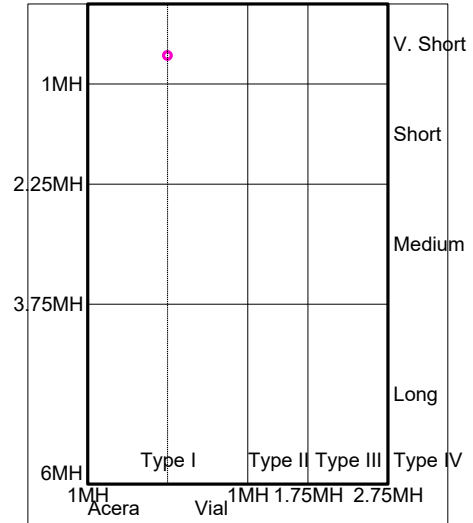
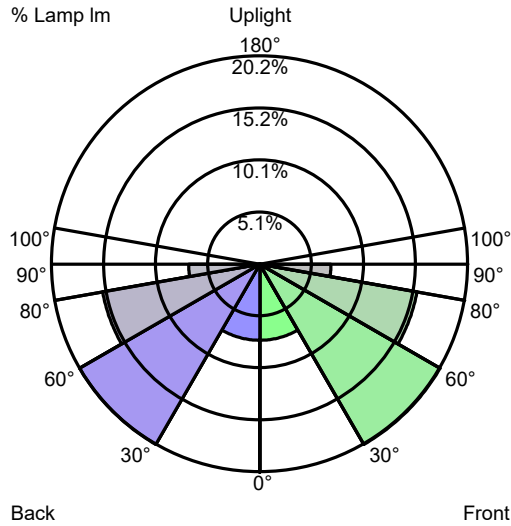
## Ensayo

Código 15-A125-05-F9\_2700K

Nombre SPARK

|                 |        |                    |               |          |                |            |               |
|-----------------|--------|--------------------|---------------|----------|----------------|------------|---------------|
| Flujo Luminaria | 380 lm | Potencia Luminaria | 10.0 W        | Eficacia | 37.959 lm/W    | Eficiencia | 100.00%       |
| Flujo Fuente    | 380 lm | Valor Máximo       | 181.31 cd/klm | Posición | C=0.00 G=33.00 | CG         | Rotosimétrico |

## US ROAD STANDARDS



| Luminaire Classification System (LCS)                 |              |          |         |
|---|--------------|----------|---------|
| LCS Zone  |              | Lumens   | %Lamp   |
| FL  | 0° -- 30°    | 28.1 lm  | 7.4 %   |
| FM  | 30° -- 60°   | 76.7 lm  | 20.2 %  |
| FH  | 60° -- 80°   | 58.8 lm  | 15.5 %  |
| FVH   | 80° -- 90°   | 26.2 lm  | 6.9 %   |
| BL  | 0° -- 30°    | 28.1 lm  | 7.4 %   |
| BM  | 30° -- 60°   | 76.7 lm  | 20.2 %  |
| BH  | 60° -- 80°   | 58.8 lm  | 15.5 %  |
| BVH   | 80° -- 90°   | 26.2 lm  | 6.9 %   |
| UL  | 90° -- 100°  | 0.0 lm   | 0.0 %   |
| UH  | 100° -- 180° | 0.0 lm   | 0.0 %   |
| TOTALS  |              | 379.6 lm | 100.0 % |
| BUG B0 U0 G1 Type V Very Short Quadrilateral Symmetry |              |          |         |