

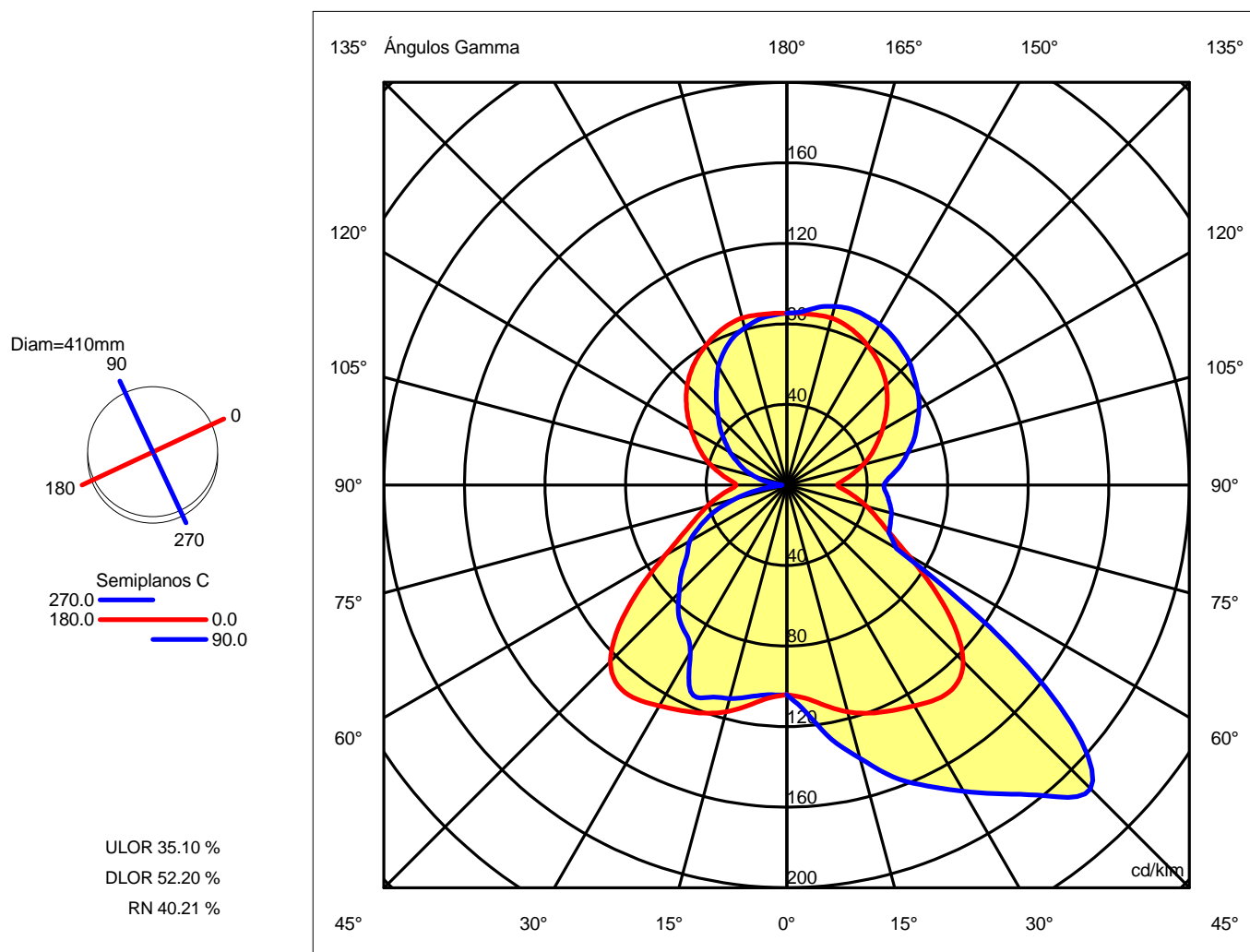
Luminaria

Código TMMXX+TMMP2D
 Nombre TMM+ P CARTULINA BLANCA DIFUSOR
Ensayo
 Código CL004A17F105G
 Nombre TMM+P CARTULINA BLANCA DIFUSOR

| | | | | | | | |
|----------------------------|-------------|--------------------|---------------|-------------------------------|-----------------|---------------------------|---------------------------|
| Flujo Luminaria | 871.32 lm | Potencia luminaria | 9.80 W | Eficacia | 88.91 lm/W | Eficiencia | 87.31% |
| Flujo de Lámpara | 998.00 lm | Valor Máximo | 213.32 cd/klm | Posición | C=90.00 G=45.00 | CG | Sim. en los planos 270-90 |
| Luminaria Redonda | | Diam. | 410 mm | Altura | 170 mm | | |
| Área Luminosa Redonda | | Diam. | 400 mm | Altura | 0 mm | | |
| Área Luminosa Horizontal | 0.125664 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° | | 0.030401 m2 | |
| Sist. de Coorden. | CG | | | Tipo de Simetría | | Sim. en los planos 270-90 | |
| Fecha | 29-12-2017 | | | Máximo Ángulo Gamma | | 180 | |
| Distancia de Ensayo | 6.44 | | | Flujo de Ensayo | | 998.00 lm | |
| Operador | ASSELUM T2 | | | Tensión de alimentación [V] | | | |
| Temperatura | | | | Corriente de alimentación [A] | | | |
| Humedad | | | | Fotocélula | | Prc | |
| Notas | | | | | | | |

Lámparas de la Luminaria

| Familia | Código | Nombre | Flujo [lm] | Pot. [W] | Cant. |
|---------|-----------------|-------------------|------------|----------|-------|
| | 6BOM40 | Bombilla LED 10 W | 998.00 | 9.80 | 1 |
| C.I.E. | 39 74 90 60 87 | D DIN 5040 | C21 | | |
| F UTE | 0.52 E + 0.35 T | B NBN | BZ 5 | | |



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Tabla de Intensidad Luminosa cd/klm Tabla 1/1

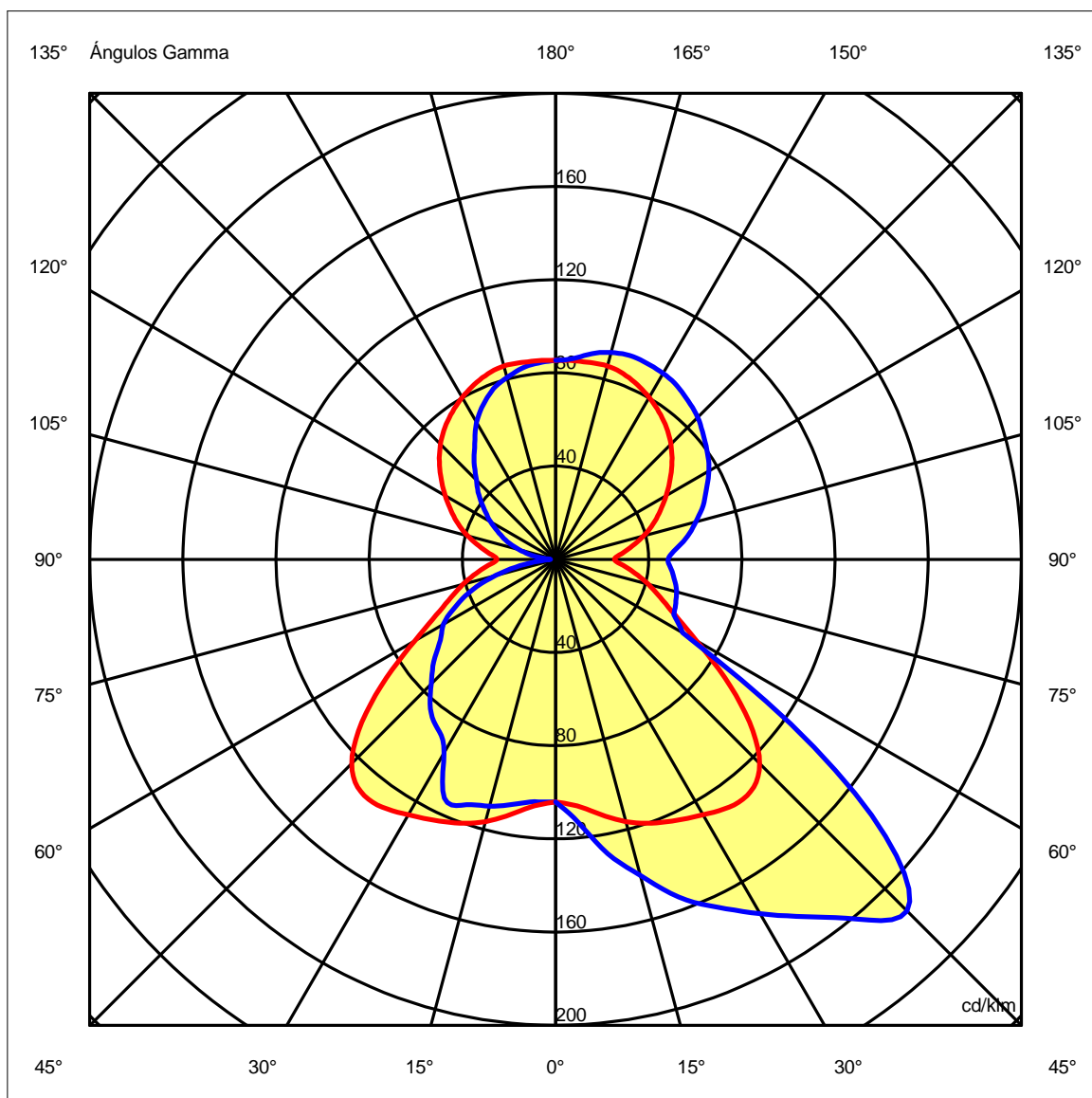
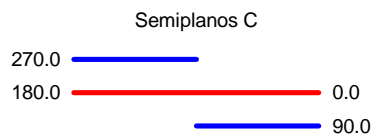
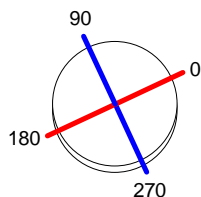
| | C 270.00 | C 285.00 | C 300.00 | C 315.00 | C 330.00 | C 345.00 | C 0.00 | C 15.00 | C 30.00 | C 45.00 | C 60.00 | C 75.00 | C 90.00 |
|--------|----------|----------|----------|----------|----------|----------|--------|---------|---------|---------|---------|---------|---------|
| G 0.0 | 104.12 | 104.12 | 104.12 | 104.12 | 104.12 | 104.12 | 104.12 | 104.12 | 104.12 | 104.12 | 104.12 | 104.12 | 104.12 |
| G 5.0 | 104.42 | 104.49 | 104.65 | 104.85 | 105.09 | 105.50 | 106.27 | 107.58 | 109.18 | 110.83 | 112.24 | 113.20 | 113.53 |
| G 10.0 | 106.77 | 107.02 | 107.64 | 108.52 | 109.34 | 109.92 | 111.17 | 114.07 | 117.72 | 121.42 | 124.88 | 127.34 | 128.22 |
| G 15.0 | 109.68 | 110.04 | 110.82 | 111.91 | 113.39 | 114.68 | 116.50 | 120.71 | 125.14 | 130.36 | 135.63 | 139.14 | 140.41 |
| G 20.0 | 112.09 | 112.18 | 112.97 | 114.24 | 115.78 | 117.61 | 120.49 | 125.35 | 130.60 | 138.52 | 145.79 | 151.65 | 154.18 |
| G 25.0 | 113.06 | 114.15 | 114.30 | 115.10 | 116.69 | 119.11 | 123.53 | 129.11 | 136.29 | 145.67 | 154.29 | 161.52 | 164.77 |
| G 30.0 | 95.83 | 104.88 | 113.27 | 114.90 | 116.91 | 120.42 | 126.58 | 134.04 | 142.64 | 153.06 | 162.35 | 170.20 | 175.62 |
| G 35.0 | 88.52 | 100.07 | 111.92 | 114.16 | 117.23 | 122.09 | 129.81 | 138.59 | 150.73 | 162.08 | 173.08 | 182.15 | 187.21 |
| G 40.0 | 83.68 | 94.07 | 108.81 | 112.99 | 117.18 | 121.97 | 130.17 | 141.48 | 157.48 | 172.30 | 187.78 | 192.44 | 201.49 |
| G 45.0 | 75.57 | 86.15 | 102.09 | 110.11 | 114.54 | 117.17 | 123.85 | 139.91 | 159.08 | 176.20 | 190.83 | 207.20 | 213.32 |
| G 50.0 | 68.30 | 79.62 | 95.91 | 104.20 | 106.93 | 105.65 | 108.61 | 122.90 | 148.59 | 160.48 | 175.17 | 197.28 | 184.80 |
| G 55.0 | 60.42 | 73.50 | 88.44 | 93.84 | 93.35 | 89.66 | 88.67 | 94.62 | 114.13 | 123.19 | 120.59 | 137.33 | 123.23 |
| G 60.0 | 55.61 | 65.93 | 75.13 | 78.85 | 76.84 | 73.15 | 69.85 | 66.87 | 74.65 | 82.53 | 69.86 | 76.00 | 62.85 |
| G 65.0 | 47.12 | 54.90 | 58.72 | 63.69 | 61.32 | 59.52 | 56.58 | 50.33 | 52.86 | 58.32 | 55.13 | 55.93 | 55.89 |
| G 70.0 | 38.00 | 40.06 | 46.60 | 50.00 | 48.90 | 48.85 | 47.81 | 44.51 | 49.34 | 50.93 | 53.66 | 54.92 | 54.90 |
| G 75.0 | 26.54 | 24.88 | 35.95 | 37.57 | 38.69 | 39.91 | 41.13 | 43.02 | 46.05 | 49.13 | 52.12 | 53.90 | 53.78 |
| G 80.0 | 15.46 | 16.92 | 23.65 | 26.58 | 29.65 | 31.82 | 34.70 | 39.67 | 43.38 | 46.60 | 50.13 | 52.29 | 51.86 |
| G 85.0 | 5.80 | 9.94 | 13.54 | 17.82 | 21.98 | 25.09 | 29.03 | 34.54 | 39.23 | 43.08 | 47.48 | 50.30 | 49.81 |
| G 90.0 | 2.23 | 5.94 | 8.81 | 12.62 | 16.90 | 20.70 | 25.21 | 30.11 | 35.61 | 40.69 | 45.12 | 48.20 | 48.29 |
| G 95.0 | 4.94 | 8.87 | 12.69 | 16.37 | 20.25 | 24.12 | 28.46 | 33.05 | 38.33 | 43.49 | 47.40 | 49.95 | 51.90 |
| G100.0 | 10.94 | 13.35 | 17.32 | 21.93 | 25.62 | 29.44 | 33.51 | 37.99 | 43.19 | 48.04 | 52.13 | 55.28 | 57.54 |
| G105.0 | 16.19 | 20.01 | 21.64 | 26.95 | 31.28 | 35.27 | 39.17 | 43.62 | 48.64 | 53.20 | 57.54 | 59.90 | 62.27 |
| G110.0 | 22.04 | 23.83 | 27.84 | 32.10 | 36.55 | 40.63 | 44.53 | 48.98 | 53.80 | 58.32 | 62.12 | 65.61 | 67.32 |
| G115.0 | 26.82 | 29.58 | 34.62 | 38.39 | 41.99 | 45.74 | 49.63 | 54.06 | 58.71 | 63.16 | 66.72 | 70.24 | 71.43 |
| G120.0 | 32.37 | 35.39 | 40.03 | 45.15 | 48.02 | 51.01 | 54.73 | 59.06 | 63.53 | 67.74 | 71.49 | 74.06 | 75.93 |
| G125.0 | 37.29 | 41.08 | 44.16 | 51.08 | 54.16 | 56.56 | 60.01 | 64.07 | 68.24 | 72.15 | 76.02 | 77.61 | 79.59 |
| G130.0 | 43.07 | 47.13 | 49.03 | 55.55 | 59.60 | 61.95 | 65.20 | 68.91 | 72.70 | 76.43 | 79.83 | 81.03 | 82.81 |
| G135.0 | 48.15 | 52.64 | 54.50 | 59.82 | 64.16 | 66.75 | 69.94 | 73.32 | 76.77 | 80.23 | 83.02 | 84.32 | 86.23 |
| G140.0 | 54.45 | 57.96 | 60.82 | 63.97 | 68.17 | 70.81 | 73.95 | 77.09 | 80.32 | 83.45 | 85.76 | 87.29 | 88.64 |
| G145.0 | 60.61 | 63.82 | 66.54 | 68.68 | 71.76 | 74.32 | 77.32 | 80.22 | 83.26 | 86.11 | 88.11 | 89.71 | 90.88 |
| G150.0 | 67.90 | 69.50 | 71.82 | 73.30 | 75.39 | 77.50 | 80.23 | 82.89 | 85.68 | 88.16 | 90.00 | 91.44 | 92.21 |
| G155.0 | 73.37 | 74.38 | 75.76 | 77.31 | 78.93 | 80.47 | 82.79 | 85.26 | 87.56 | 89.63 | 91.27 | 92.39 | 92.84 |
| G160.0 | 77.98 | 78.32 | 79.26 | 80.71 | 81.72 | 82.99 | 84.78 | 86.98 | 88.72 | 90.34 | 91.71 | 92.71 | 93.09 |
| G165.0 | 80.78 | 81.11 | 81.94 | 82.83 | 83.70 | 84.66 | 85.92 | 87.52 | 88.60 | 89.99 | 91.00 | 91.66 | 91.89 |
| G170.0 | 83.30 | 83.44 | 83.79 | 84.25 | 84.78 | 85.06 | 85.76 | 86.83 | 87.57 | 88.19 | 88.86 | 89.44 | 89.68 |
| G175.0 | 84.62 | 84.66 | 84.75 | 84.92 | 85.06 | 85.32 | 85.60 | 85.89 | 86.09 | 86.24 | 86.38 | 86.48 | 86.51 |
| G180.0 | 85.43 | 85.43 | 85.43 | 85.43 | 85.43 | 85.43 | 85.43 | 85.43 | 85.43 | 85.43 | 85.43 | 85.43 | 85.43 |

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Diam=410mm

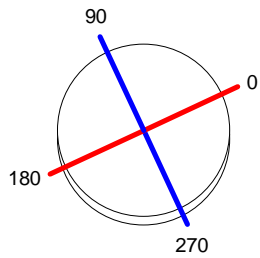


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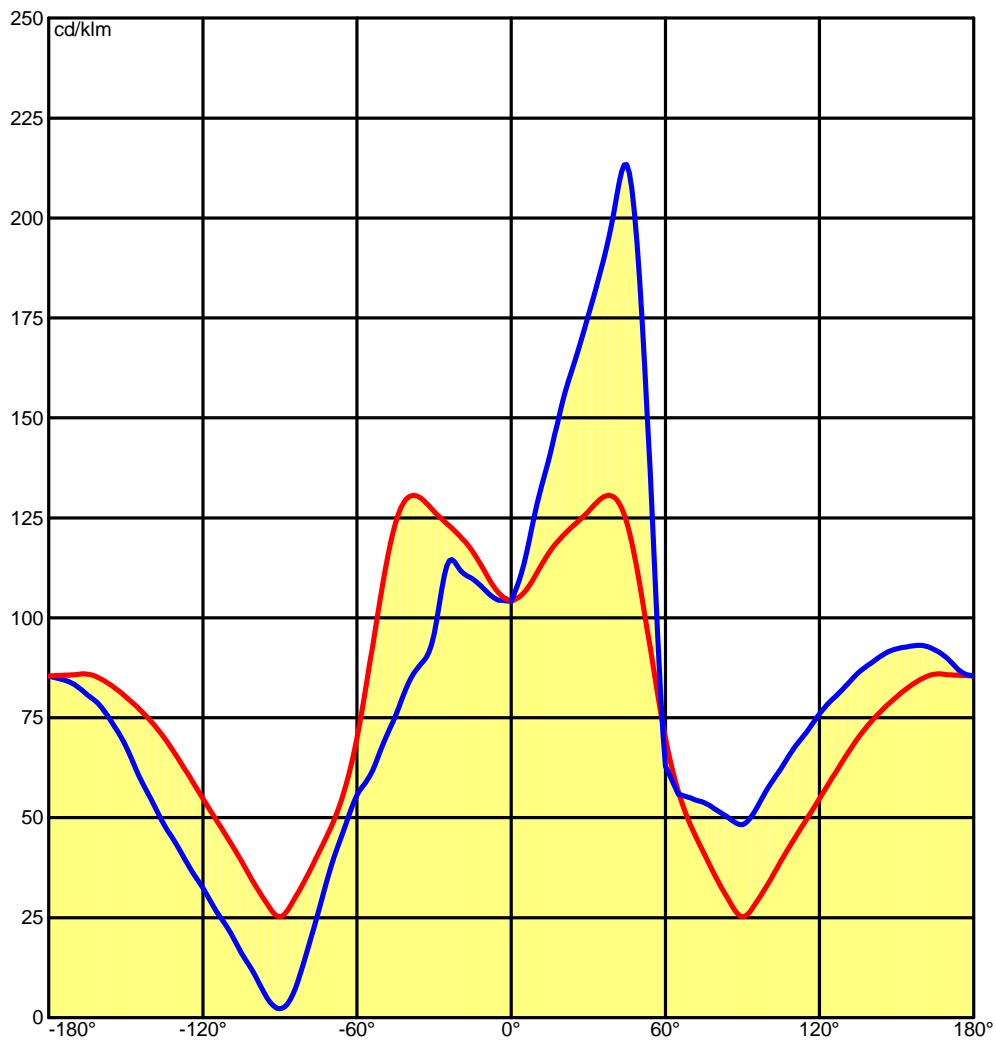
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Semiplanos C

270.0 ———— 0.0
 180.0 ———— 90.0



Luminaria

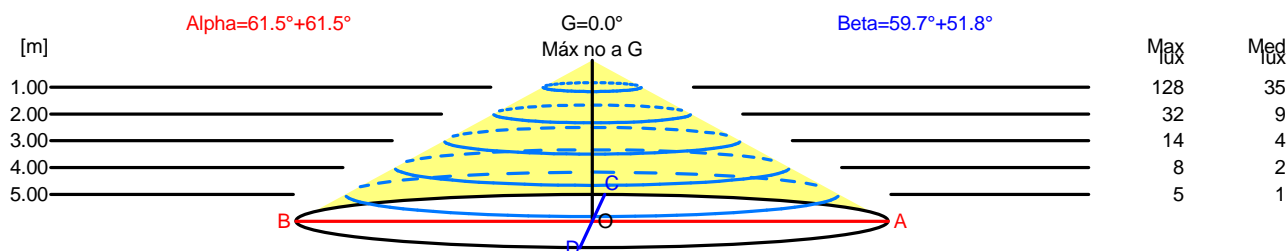
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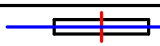
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Apertura a 50.00 % de Max Intensidad

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 1.84 | 3.68 | 5.52 | 7.36 | 9.21 | OC | 1.71 | 3.42 | 5.13 | 6.85 | 8.56 |
| OB | 1.84 | 3.68 | 5.52 | 7.36 | 9.21 | OD | 1.27 | 2.54 | 3.81 | 5.08 | 6.35 |

| | | | | | | | | | | | |
|----|--------|-----------------------------------|--------|--------|--------|--------|--------|-------|-------|-------|--|
| | | Intensidades Luminosas [cd/klm] | | | | | | | | | |
| | 0 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 | |
| OA | 103.91 | 106.05 | 116.27 | 123.28 | 129.55 | 123.60 | 88.49 | 56.46 | 41.05 | 28.97 | |
| OB | 103.91 | 106.05 | 116.27 | 123.28 | 129.55 | 123.60 | 88.49 | 56.46 | 41.05 | 28.97 | |
| OC | 103.91 | 113.30 | 140.13 | 164.44 | 186.84 | 212.90 | 122.99 | 55.78 | 53.68 | 49.71 | |
| OD | 103.91 | 104.21 | 109.47 | 112.84 | 88.34 | 75.42 | 60.30 | 47.03 | 26.48 | 5.79 | |



| H[m] | D[m] | Max lux | Med lux | $\alpha = 61.5^\circ + 61.5^\circ$ | $G = 0.0^\circ$ Máx no a G |  |
|------|-------|---------|---------|------------------------------------|-------------------------------|---|
| 1.00 | 3.68 | 128 | 35 | | | |
| 2.00 | 7.36 | 32 | 9 | | | |
| 3.00 | 11.05 | 14 | 4 | | | |
| 4.00 | 14.73 | 8 | 2 | | | |
| 5.00 | 18.41 | 5 | 1 | | | |

| H[m] | D[m] | Max lux | Med lux | $\beta = 51.8^\circ + 59.7^\circ$ | $G = 0.0^\circ$ Máx no a G |  |
|------|-------|---------|---------|-----------------------------------|-------------------------------|---|
| 1.00 | 2.98 | 128 | 35 | | | |
| 2.00 | 5.96 | 32 | 9 | | | |
| 3.00 | 8.95 | 14 | 4 | | | |
| 4.00 | 11.93 | 8 | 2 | | | |
| 5.00 | 14.91 | 5 | 1 | | | |

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UGR
 S = 0.250

| Reflectancias | | | | | | | | | | |
|----------------|------------------|------|------|------|------|----------------|------|------|------|------|
| 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 | 10.7 | 11.6 | 11.5 | 12.4 | 13.4 | 9.4 | 10.3 | 10.2 | 11.1 | 12.1 |
| x=2H y=3H | 12.0 | 12.8 | 12.8 | 13.7 | 14.7 | 10.9 | 11.7 | 11.7 | 12.5 | 13.6 |
| x=2H y=4H | 12.9 | 13.6 | 13.7 | 14.5 | 15.5 | 11.3 | 12.1 | 12.2 | 13.0 | 14.0 |
| x=2H y=6H | 13.9 | 14.6 | 14.7 | 15.4 | 16.5 | 11.7 | 12.4 | 12.5 | 13.2 | 14.3 |
| x=2H y=8H | 14.4 | 15.1 | 15.3 | 16.0 | 17.1 | 11.8 | 12.5 | 12.6 | 13.3 | 14.4 |
| x=2H y=12H | 15.1 | 15.8 | 16.0 | 16.7 | 17.7 | 11.9 | 12.5 | 12.7 | 13.4 | 14.5 |
| x=4H y=2H | 11.3 | 12.0 | 12.1 | 12.9 | 13.9 | 10.4 | 11.1 | 11.2 | 12.0 | 13.0 |
| x=4H y=3H | 12.9 | 13.5 | 13.7 | 14.4 | 15.5 | 12.0 | 12.7 | 12.9 | 13.6 | 14.6 |
| x=4H y=4H | 13.9 | 14.5 | 14.8 | 15.4 | 16.5 | 12.6 | 13.2 | 13.5 | 14.1 | 15.2 |
| x=4H y=6H | 15.1 | 15.6 | 16.0 | 16.5 | 17.7 | 13.0 | 13.6 | 14.0 | 14.5 | 15.6 |
| x=4H y=8H | 15.8 | 16.3 | 16.7 | 17.2 | 18.4 | 13.2 | 13.7 | 14.1 | 14.6 | 15.8 |
| x=4H y=12H | 16.6 | 17.0 | 17.5 | 18.0 | 19.1 | 13.3 | 13.7 | 14.2 | 14.7 | 15.8 |
| x=8H y=4H | 14.4 | 14.9 | 15.3 | 15.8 | 17.0 | 13.1 | 13.6 | 14.0 | 14.5 | 15.7 |
| x=8H y=6H | 15.9 | 16.3 | 16.8 | 17.2 | 18.4 | 13.8 | 14.2 | 14.7 | 15.1 | 16.3 |
| x=8H y=8H | 16.8 | 17.1 | 17.7 | 18.1 | 19.3 | 14.1 | 14.4 | 15.0 | 15.4 | 16.6 |
| x=8H y=12H | 17.8 | 18.1 | 18.8 | 19.1 | 20.3 | 14.3 | 14.6 | 15.2 | 15.5 | 16.8 |
| x=12H y=4H | 14.5 | 15.0 | 15.5 | 15.9 | 17.0 | 13.2 | 13.6 | 14.1 | 14.6 | 15.7 |
| x=12H y=6H | 16.1 | 16.5 | 17.1 | 17.4 | 18.6 | 14.0 | 14.3 | 15.0 | 15.3 | 16.5 |
| x=12H y=8H | 17.1 | 17.4 | 18.1 | 18.4 | 19.6 | 14.4 | 14.7 | 15.3 | 15.6 | 16.8 |

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Isolux (Suelo)

Posición Luminaria X=0.00m Y=0.00m Z=3.00m

