

Luminaire Property

Luminaire:

Report NO.: 50W
Test NO.:
Lamp: [LAMP] [LAMP]
Sum Lumens: 4172.91 lm
Number of Lamps: 1
Diameter: 200mm
Length: 0mm
Photometric Type: Type C

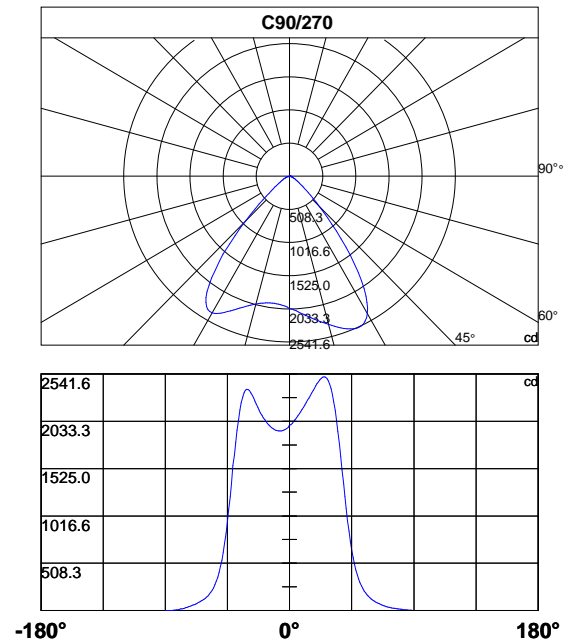
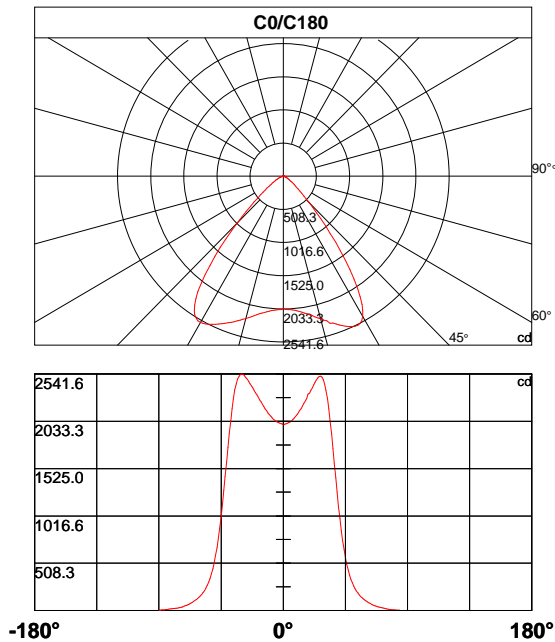
Voltage: 0.0 V
Current: 0.0 A
Power: W
Power Factor: 0.0
Ballast Type:
Width: 0mm
Height: 0mm
Remark:

Photometric Results

Lumens: 4172.91 lm
Efficiency: N.A
Central Intensity: 1993.631cd
Maximum Intensity: 2541.583cd

Angle of maximum intensity: C:135.0 G:30.0
Half Peak Side Angle(50%): Left: -69.0 Right:13.2
Light Out Rate(LOR) : 100.00%
Up Flux Rate: 0.0%
Down Flux Rate: 100.0%

Beam Angle(10%): Left: -81.3 Right:25.5



Photometric Data Table [cd]

| C\G | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 1993.6 | 2004.2 | 2006.5 | 2010.9 | 2017.9 | 2026.8 | 2037.9 | 2051.8 | 2067.2 | 2085.2 |
| 45.0 | 1993.6 | 1995.8 | 2012.5 | 2030.9 | 2050.1 | 2071.4 | 2092.2 | 2114.8 | 2137.2 | 2161.0 |
| 90.0 | 1993.6 | 1995.8 | 2012.5 | 2030.9 | 2050.1 | 2071.4 | 2092.2 | 2114.8 | 2137.2 | 2161.0 |
| 135.0 | 1993.6 | 2005.7 | 2009.6 | 2015.6 | 2022.9 | 2031.7 | 2043.5 | 2055.9 | 2071.2 | 2086.5 |
| 180.0 | 1993.6 | 2005.7 | 2009.6 | 2015.6 | 2022.9 | 2031.7 | 2043.5 | 2055.9 | 2071.2 | 2086.5 |
| 225.0 | 1993.6 | 1967.3 | 1955.7 | 1946.4 | 1938.8 | 1933.8 | 1930.1 | 1928.7 | 1928.7 | 1932.0 |
| 270.0 | 1993.6 | 1967.3 | 1955.7 | 1946.4 | 1938.8 | 1933.8 | 1930.1 | 1928.7 | 1928.7 | 1932.0 |
| 315.0 | 1993.6 | 2004.2 | 2006.5 | 2010.9 | 2017.9 | 2026.8 | 2037.9 | 2051.8 | 2067.2 | 2085.2 |
| 360.0 | 1993.6 | 2004.2 | 2006.5 | 2010.9 | 2017.9 | 2026.8 | 2037.9 | 2051.8 | 2067.2 | 2085.2 |

| C\G | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 2103.8 | 2125.7 | 2148.4 | 2172.0 | 2197.6 | 2224.0 | 2251.2 | 2278.7 | 2326.4 | 2336.4 |
| 45.0 | 2184.0 | 2209.3 | 2232.9 | 2258.7 | 2282.7 | 2309.7 | 2335.1 | 2361.9 | 2387.8 | 2414.0 |
| 90.0 | 2184.0 | 2209.3 | 2232.9 | 2258.7 | 2282.7 | 2309.7 | 2335.1 | 2361.9 | 2387.8 | 2414.0 |
| 135.0 | 2105.2 | 2124.6 | 2145.9 | 2167.8 | 2191.8 | 2215.3 | 2240.5 | 2264.9 | 2290.3 | 2314.9 |
| 180.0 | 2105.2 | 2124.6 | 2145.9 | 2167.8 | 2191.8 | 2215.3 | 2240.5 | 2264.9 | 2290.3 | 2314.9 |
| 225.0 | 1937.1 | 1944.0 | 1953.4 | 1964.0 | 1977.4 | 1992.3 | 2009.6 | 2028.4 | 2050.5 | 2072.8 |
| 270.0 | 1937.1 | 1944.0 | 1953.4 | 1964.0 | 1977.4 | 1992.3 | 2009.6 | 2028.4 | 2050.5 | 2072.8 |
| 315.0 | 2103.8 | 2125.7 | 2148.4 | 2172.0 | 2197.6 | 2224.0 | 2251.2 | 2278.7 | 2326.4 | 2336.4 |
| 360.0 | 2103.8 | 2125.7 | 2148.4 | 2172.0 | 2197.6 | 2224.0 | 2251.2 | 2278.7 | 2326.4 | 2336.4 |

| C\G | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 2366.3 | 2395.4 | 2424.7 | 2452.6 | 2479.0 | 2499.9 | 2514.0 | 2517.5 | 2507.9 | 2481.8 |
| 45.0 | 2437.7 | 2459.8 | 2479.7 | 2496.0 | 2507.3 | 2512.1 | 2508.6 | 2495.6 | 2471.2 | 2435.7 |
| 90.0 | 2437.7 | 2459.8 | 2479.7 | 2496.0 | 2507.3 | 2512.1 | 2508.6 | 2495.6 | 2471.2 | 2435.7 |
| 135.0 | 2340.3 | 2364.2 | 2389.0 | 2412.3 | 2436.5 | 2459.4 | 2482.6 | 2503.4 | 2521.2 | 2534.6 |
| 180.0 | 2340.3 | 2364.2 | 2389.0 | 2412.3 | 2436.5 | 2459.4 | 2482.6 | 2503.4 | 2521.2 | 2534.6 |
| 225.0 | 2098.4 | 2124.9 | 2154.8 | 2185.2 | 2217.4 | 2249.4 | 2282.7 | 2312.8 | 2340.3 | 2362.2 |
| 270.0 | 2098.4 | 2124.9 | 2154.8 | 2185.2 | 2217.4 | 2249.4 | 2282.7 | 2312.8 | 2340.3 | 2362.2 |
| 315.0 | 2366.3 | 2395.4 | 2424.7 | 2452.6 | 2479.0 | 2499.9 | 2514.0 | 2517.5 | 2507.9 | 2481.8 |
| 360.0 | 2366.3 | 2395.4 | 2424.7 | 2452.6 | 2479.0 | 2499.9 | 2514.0 | 2517.5 | 2507.9 | 2481.8 |

| C\G | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 | 36.0 | 37.0 | 38.0 | 39.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 2434.2 | 2367.3 | 2276.5 | 2168.0 | 2037.1 | 1896.0 | 1740.3 | 1585.0 | 1423.5 | 1270.7 |
| 45.0 | 2384.7 | 2321.5 | 2241.8 | 2149.9 | 2040.4 | 1922.1 | 1790.1 | 1655.9 | 1511.3 | 1370.3 |
| 90.0 | 2384.7 | 2321.5 | 2241.8 | 2149.9 | 2040.4 | 1922.1 | 1790.1 | 1655.9 | 1511.3 | 1370.3 |
| 135.0 | 2541.6 | 2536.9 | 2520.6 | 2488.8 | 2436.7 | 2369.4 | 2277.1 | 2171.7 | 2040.8 | 1904.1 |
| 180.0 | 2541.6 | 2536.9 | 2520.6 | 2488.8 | 2436.7 | 2369.4 | 2277.1 | 2171.7 | 2040.8 | 1904.1 |
| 225.0 | 2375.8 | 2378.3 | 2366.9 | 2340.9 | 2296.1 | 2232.5 | 2153.0 | 2051.8 | 1938.2 | 1807.2 |
| 270.0 | 2375.8 | 2378.3 | 2366.9 | 2340.9 | 2296.1 | 2232.5 | 2153.0 | 2051.8 | 1938.2 | 1807.2 |
| 315.0 | 2434.2 | 2367.3 | 2276.5 | 2168.0 | 2037.1 | 1896.0 | 1740.3 | 1585.0 | 1423.5 | 1270.7 |
| 360.0 | 2434.2 | 2367.3 | 2276.5 | 2168.0 | 2037.1 | 1896.0 | 1740.3 | 1585.0 | 1423.5 | 1270.7 |

Photometric Data Table [cd]

| C\G | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0.0 | 1121.4 | 987.4 | 861.4 | 752.1 | 653.0 | 570.4 | 495.6 | 433.9 | 379.2 | 334.6 |
| 45.0 | 1229.2 | 1097.3 | 967.6 | 852.3 | 745.1 | 652.2 | 568.3 | 497.1 | 434.7 | 382.5 |
| 90.0 | 1229.2 | 1097.3 | 967.6 | 852.3 | 745.1 | 652.2 | 568.3 | 497.1 | 434.7 | 382.5 |
| 135.0 | 1751.1 | 1601.3 | 1442.1 | 1294.2 | 1145.6 | 1012.8 | 885.1 | 775.9 | 674.5 | 589.6 |
| 180.0 | 1751.1 | 1601.3 | 1442.1 | 1294.2 | 1145.6 | 1012.8 | 885.1 | 775.9 | 674.5 | 589.6 |
| 225.0 | 1670.8 | 1557.6 | 1375.2 | 1225.9 | 1087.3 | 952.7 | 832.3 | 721.2 | 626.6 | 541.5 |
| 270.0 | 1670.8 | 1557.6 | 1375.2 | 1225.9 | 1087.3 | 952.7 | 832.3 | 721.2 | 626.6 | 541.5 |
| 315.0 | 1121.4 | 987.4 | 861.4 | 752.1 | 653.0 | 570.4 | 495.6 | 433.9 | 379.2 | 334.6 |
| 360.0 | 1121.4 | 987.4 | 861.4 | 752.1 | 653.0 | 570.4 | 495.6 | 433.9 | 379.2 | 334.6 |

| C\G | 50.0 | 51.0 | 52.0 | 53.0 | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 295.1 | 262.3 | 233.1 | 208.8 | 186.9 | 168.5 | 152.0 | 137.3 | 124.1 | 112.4 |
| 45.0 | 336.8 | 298.4 | 264.5 | 236.3 | 210.4 | 188.5 | 169.1 | 152.6 | 137.6 | 124.9 |
| 90.0 | 336.8 | 298.4 | 264.5 | 236.3 | 210.4 | 188.5 | 169.1 | 152.6 | 137.6 | 124.9 |
| 135.0 | 512.1 | 446.3 | 392.0 | 344.3 | 304.6 | 269.7 | 240.6 | 214.6 | 192.7 | 173.1 |
| 180.0 | 512.1 | 446.3 | 392.0 | 344.3 | 304.6 | 269.7 | 240.6 | 214.6 | 192.7 | 173.1 |
| 225.0 | 470.4 | 408.5 | 358.1 | 313.5 | 277.1 | 245.1 | 219.3 | 196.2 | 176.8 | 159.4 |
| 270.0 | 470.4 | 408.5 | 358.1 | 313.5 | 277.1 | 245.1 | 219.3 | 196.2 | 176.8 | 159.4 |
| 315.0 | 295.1 | 262.3 | 233.1 | 208.8 | 186.9 | 168.5 | 152.0 | 137.3 | 124.1 | 112.4 |
| 360.0 | 295.1 | 262.3 | 233.1 | 208.8 | 186.9 | 168.5 | 152.0 | 137.3 | 124.1 | 112.4 |

| C\G | 60.0 | 61.0 | 62.0 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 |
|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 0.0 | 101.4 | 91.7 | 82.4 | 74.3 | 66.1 | 59.3 | 52.7 | 46.5 | 41.3 | 36.8 |
| 45.0 | 113.4 | 103.1 | 93.5 | 85.1 | 77.7 | 71.0 | 64.2 | 58.5 | 52.9 | 47.9 |
| 90.0 | 113.4 | 103.1 | 93.5 | 85.1 | 77.7 | 71.0 | 64.2 | 58.5 | 52.9 | 47.9 |
| 135.0 | 156.6 | 141.5 | 128.2 | 116.0 | 105.1 | 95.4 | 86.1 | 77.7 | 70.0 | 62.4 |
| 180.0 | 156.6 | 141.5 | 128.2 | 116.0 | 105.1 | 95.4 | 86.1 | 77.7 | 70.0 | 62.4 |
| 225.0 | 145.0 | 131.8 | 120.2 | 109.9 | 100.6 | 92.1 | 84.1 | 76.6 | 69.6 | 63.0 |
| 270.0 | 145.0 | 131.8 | 120.2 | 109.9 | 100.6 | 92.1 | 84.1 | 76.6 | 69.6 | 63.0 |
| 315.0 | 101.4 | 91.7 | 82.4 | 74.3 | 66.1 | 59.3 | 52.7 | 46.5 | 41.3 | 36.8 |
| 360.0 | 101.4 | 91.7 | 82.4 | 74.3 | 66.1 | 59.3 | 52.7 | 46.5 | 41.3 | 36.8 |

| C\G | 70.0 | 71.0 | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0.0 | 33.0 | 29.3 | 26.2 | 23.3 | 20.4 | 17.3 | 14.3 | 11.6 | 9.5 | 7.8 |
| 45.0 | 43.0 | 38.4 | 34.5 | 31.0 | 27.7 | 24.8 | 22.1 | 19.8 | 17.4 | 15.5 |
| 90.0 | 43.0 | 38.4 | 34.5 | 31.0 | 27.7 | 24.8 | 22.1 | 19.8 | 17.4 | 15.5 |
| 135.0 | 55.6 | 49.4 | 43.6 | 38.4 | 34.3 | 30.8 | 27.9 | 25.2 | 23.1 | 21.1 |
| 180.0 | 55.6 | 49.4 | 43.6 | 38.4 | 34.3 | 30.8 | 27.9 | 25.2 | 23.1 | 21.1 |
| 225.0 | 56.6 | 50.6 | 45.4 | 39.9 | 35.1 | 30.3 | 26.0 | 21.7 | 18.2 | 14.7 |
| 270.0 | 56.6 | 50.6 | 45.4 | 39.9 | 35.1 | 30.3 | 26.0 | 21.7 | 18.2 | 14.7 |
| 315.0 | 33.0 | 29.3 | 26.2 | 23.3 | 20.4 | 17.3 | 14.3 | 11.6 | 9.5 | 7.8 |
| 360.0 | 33.0 | 29.3 | 26.2 | 23.3 | 20.4 | 17.3 | 14.3 | 11.6 | 9.5 | 7.8 |

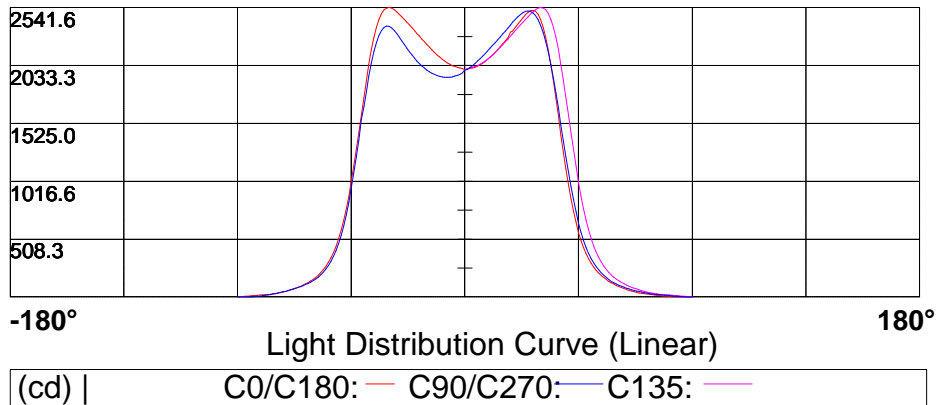
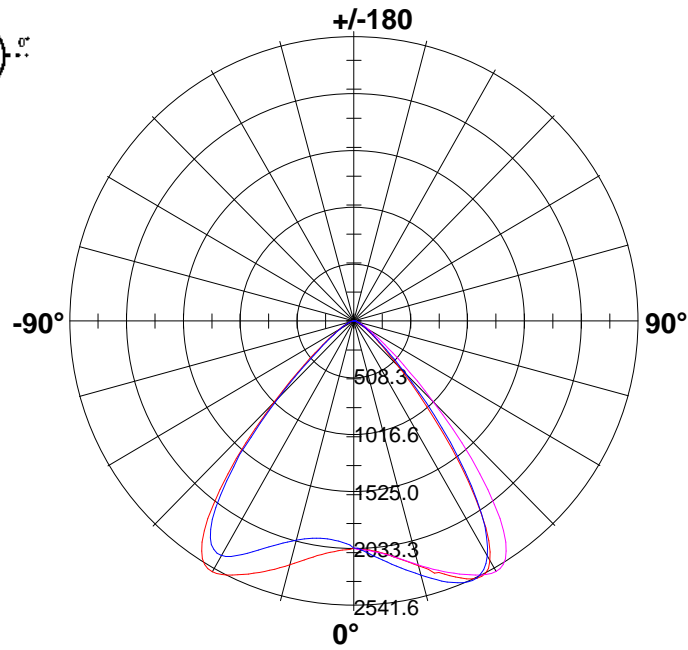
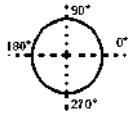
Photometric Data Table [cd]

| C\G | 80.0 | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0.0 | 6.4 | 4.8 | 3.9 | 2.7 | 1.9 | 1.1 | 1.0 | 0.8 | 0.8 | 0.8 |
| 45.0 | 13.8 | 12.0 | 10.3 | 8.5 | 6.8 | 5.2 | 4.3 | 2.5 | 2.1 | 1.1 |
| 90.0 | 13.8 | 12.0 | 10.3 | 8.5 | 6.8 | 5.2 | 4.3 | 2.5 | 2.1 | 1.1 |
| 135.0 | 19.4 | 17.4 | 15.5 | 13.4 | 11.5 | 9.3 | 7.8 | 6.6 | 5.2 | 3.9 |
| 180.0 | 19.4 | 17.4 | 15.5 | 13.4 | 11.5 | 9.3 | 7.8 | 6.6 | 5.2 | 3.9 |
| 225.0 | 11.6 | 8.5 | 6.2 | 3.7 | 2.3 | 1.4 | 0.6 | 0.0 | 0.0 | 0.0 |
| 270.0 | 11.6 | 8.5 | 6.2 | 3.7 | 2.3 | 1.4 | 0.6 | 0.0 | 0.0 | 0.0 |
| 315.0 | 6.4 | 4.8 | 3.9 | 2.7 | 1.9 | 1.1 | 1.0 | 0.8 | 0.8 | 0.8 |
| 360.0 | 6.4 | 4.8 | 3.9 | 2.7 | 1.9 | 1.1 | 1.0 | 0.8 | 0.8 | 0.8 |

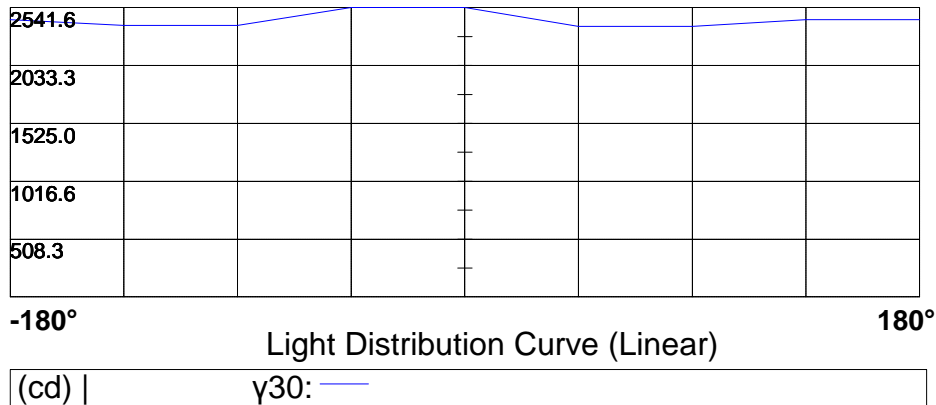
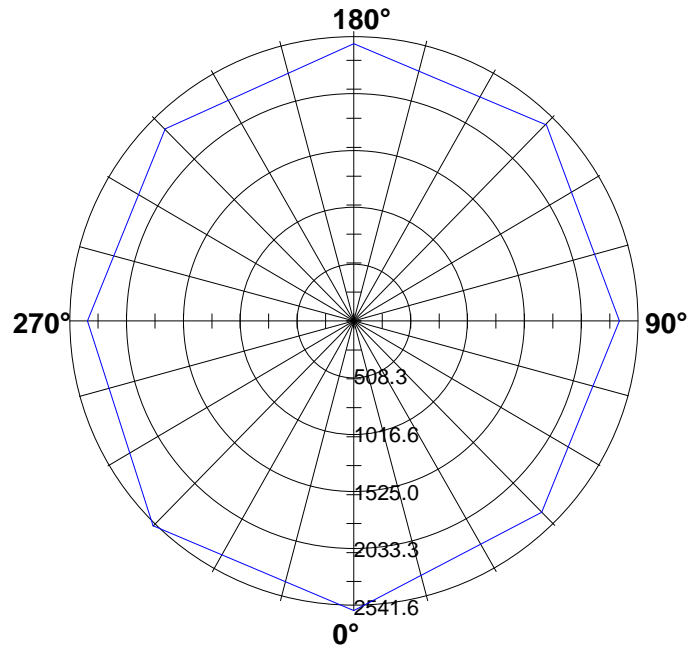
| C\G | 90.0 |
|-------|------|
| 0.0 | 0.6 |
| 45.0 | 1.0 |
| 90.0 | 1.0 |
| 135.0 | 2.9 |
| 180.0 | 2.9 |
| 225.0 | 0.0 |
| 270.0 | 0.0 |
| 315.0 | 0.6 |
| 360.0 | 0.6 |

Light Distribution Curve [Unit: cd]

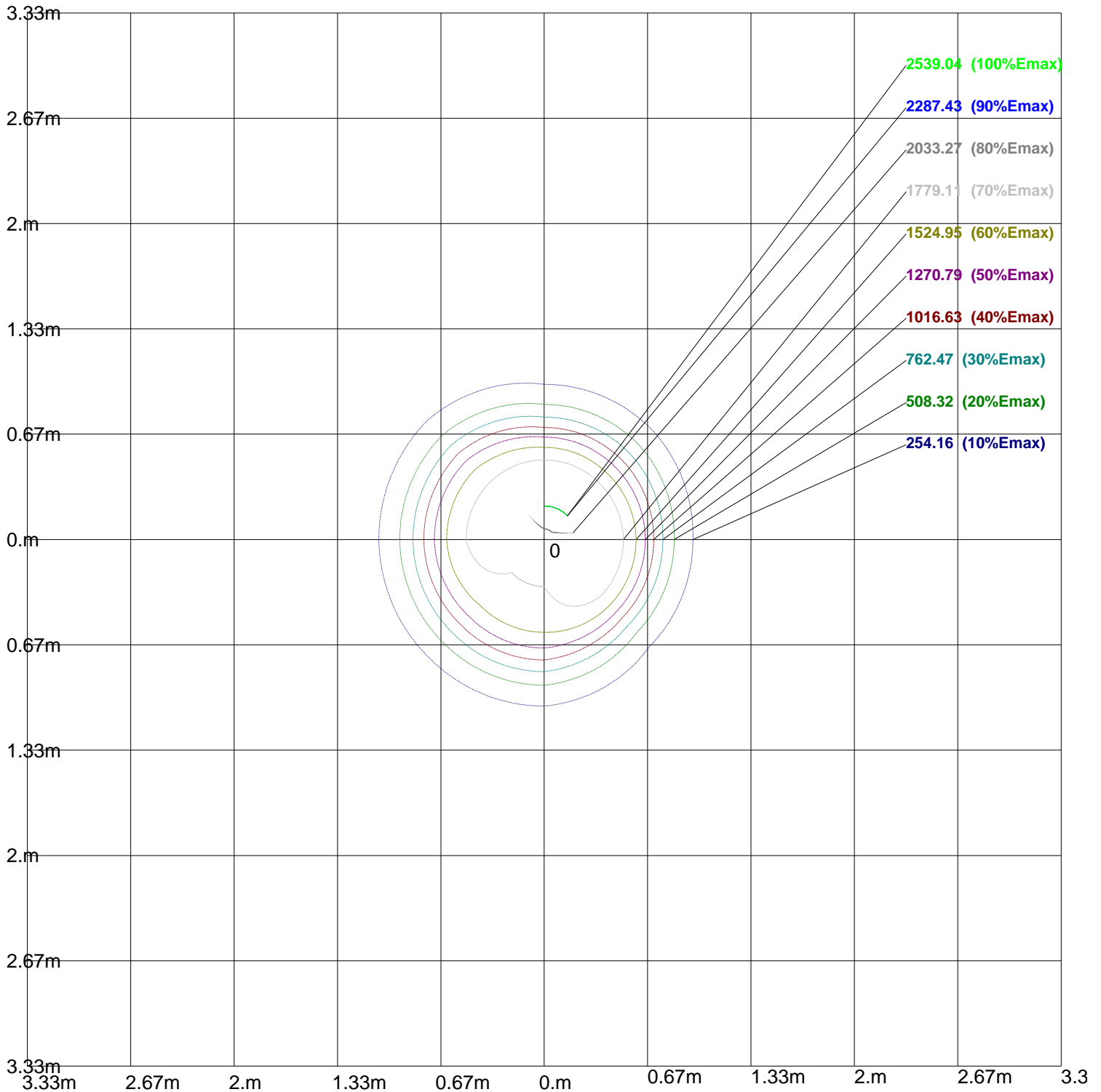
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 2541.58lx

Luminance Limiting Curve

Diameter: 200mm

Length: 0mm

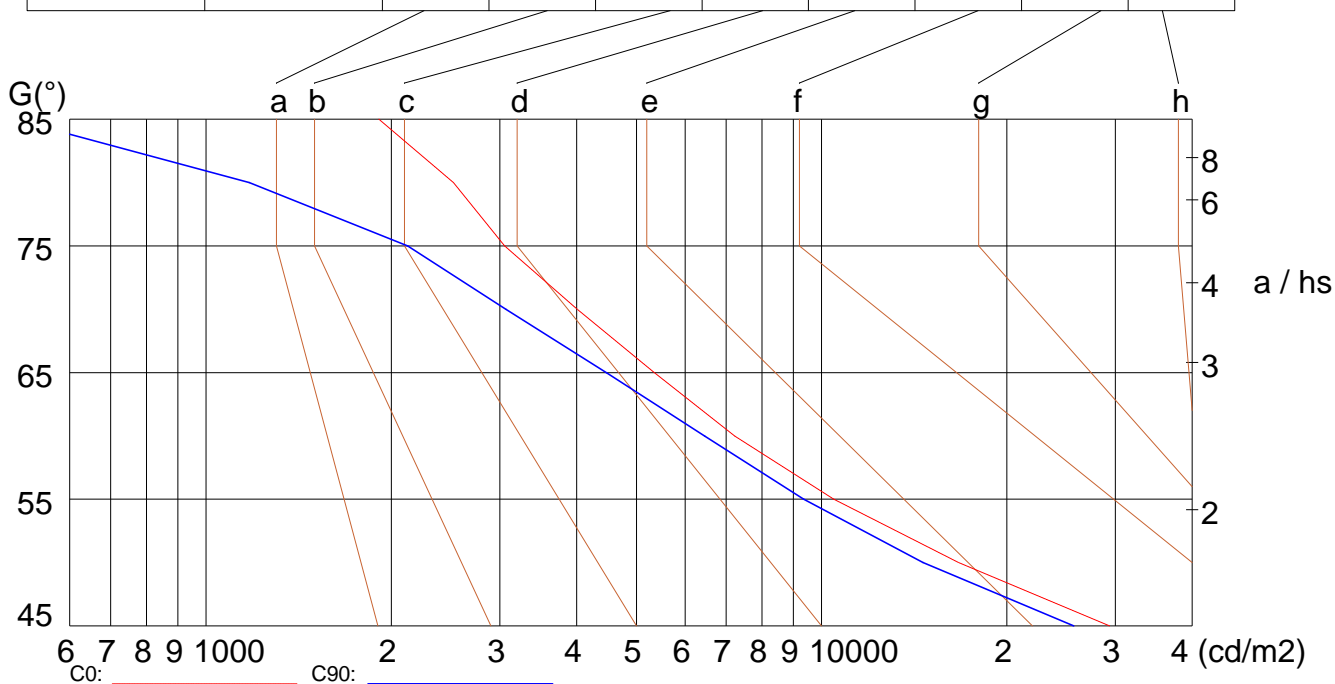
Width: 0mm

Height: 0mm

(cd/m²)

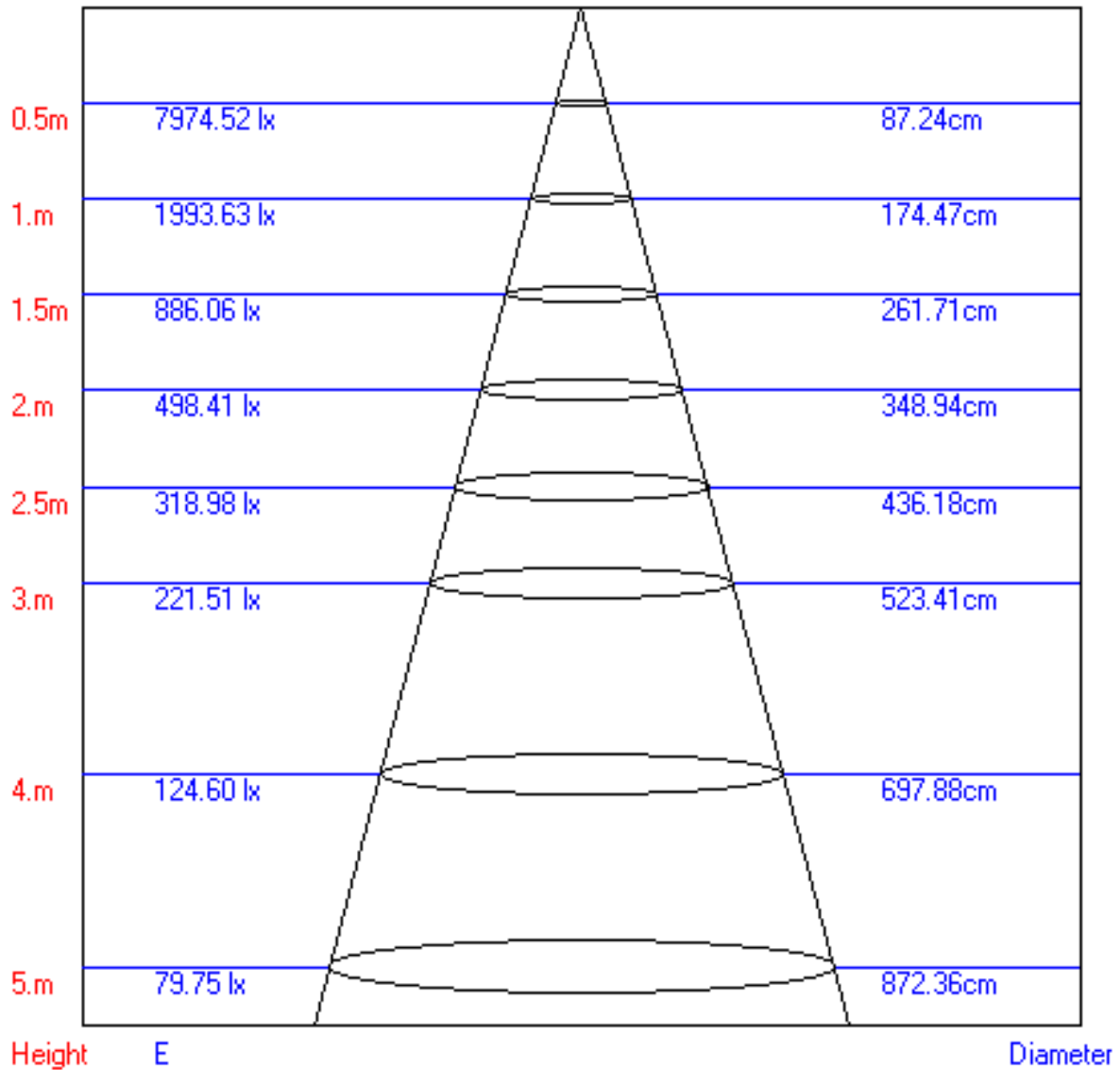
| γ | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° |
|----------|-------|-------|-------|------|------|------|------|------|------|
| C0 | 29374 | 16686 | 10464 | 7224 | 5349 | 4006 | 3054 | 2522 | 1908 |
| C90 | 25690 | 14620 | 9355 | 6459 | 4470 | 3070 | 2125 | 1175 | 420 |

| Glare | Quality | Service Values Illuminance (lx) | | | | | | | |
|-------|---------|---------------------------------|------|------|------|------|------|------|------|
| 1.15 | A | 2000 | 1000 | 500 | ≤300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | ≤300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | ≤300 | | |
| 2.2 | D | | | | 2000 | 1000 | 500 | ≤300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | ≤300 |



Lum. Limiting Curve (C0/C90)

Lux-Distance Curve



Beam Angle:82.20°

Utilization Coefficient Table

| RHOCC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 |
|-------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RHOW | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | COEFFICIENTS OF UTILIZATION FOR RHOFC=20 | | | | | | | | | | | | | | | |
| 0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1 | 1.11 | 1.10 | 1.09 | 1.10 | 1.09 | 1.07 | 1.06 | 1.04 | 1.03 | 1.00 | 0.99 | 0.97 | 0.93 | 0.92 | 0.90 | 0.85 |
| 2 | 1.01 | 0.99 | 0.98 | 1.00 | 0.98 | 0.96 | 0.96 | 0.94 | 0.92 | 0.92 | 0.90 | 0.87 | 0.87 | 0.84 | 0.81 | 0.77 |
| 3 | 0.91 | 0.89 | 0.88 | 0.90 | 0.88 | 0.86 | 0.88 | 0.85 | 0.82 | 0.85 | 0.81 | 0.78 | 0.80 | 0.76 | 0.73 | 0.69 |
| 4 | 0.83 | 0.81 | 0.79 | 0.82 | 0.79 | 0.78 | 0.80 | 0.77 | 0.74 | 0.78 | 0.74 | 0.70 | 0.74 | 0.70 | 0.66 | 0.62 |
| 5 | 0.75 | 0.73 | 0.71 | 0.75 | 0.72 | 0.70 | 0.73 | 0.70 | 0.67 | 0.71 | 0.67 | 0.63 | 0.69 | 0.64 | 0.60 | 0.56 |
| 6 | 0.68 | 0.66 | 0.65 | 0.68 | 0.65 | 0.63 | 0.67 | 0.63 | 0.60 | 0.66 | 0.61 | 0.57 | 0.64 | 0.58 | 0.54 | 0.51 |
| 7 | 0.62 | 0.60 | 0.59 | 0.62 | 0.59 | 0.57 | 0.62 | 0.58 | 0.55 | 0.61 | 0.56 | 0.52 | 0.59 | 0.54 | 0.49 | 0.46 |
| 8 | 0.57 | 0.55 | 0.54 | 0.57 | 0.54 | 0.52 | 0.57 | 0.53 | 0.50 | 0.56 | 0.51 | 0.48 | 0.55 | 0.49 | 0.45 | 0.42 |
| 9 | 0.52 | 0.50 | 0.49 | 0.52 | 0.50 | 0.48 | 0.53 | 0.49 | 0.46 | 0.52 | 0.47 | 0.44 | 0.51 | 0.46 | 0.41 | 0.38 |
| 10 | 0.48 | 0.46 | 0.45 | 0.48 | 0.46 | 0.44 | 0.49 | 0.45 | 0.42 | 0.48 | 0.44 | 0.40 | 0.48 | 0.42 | 0.38 | 0.35 |

