

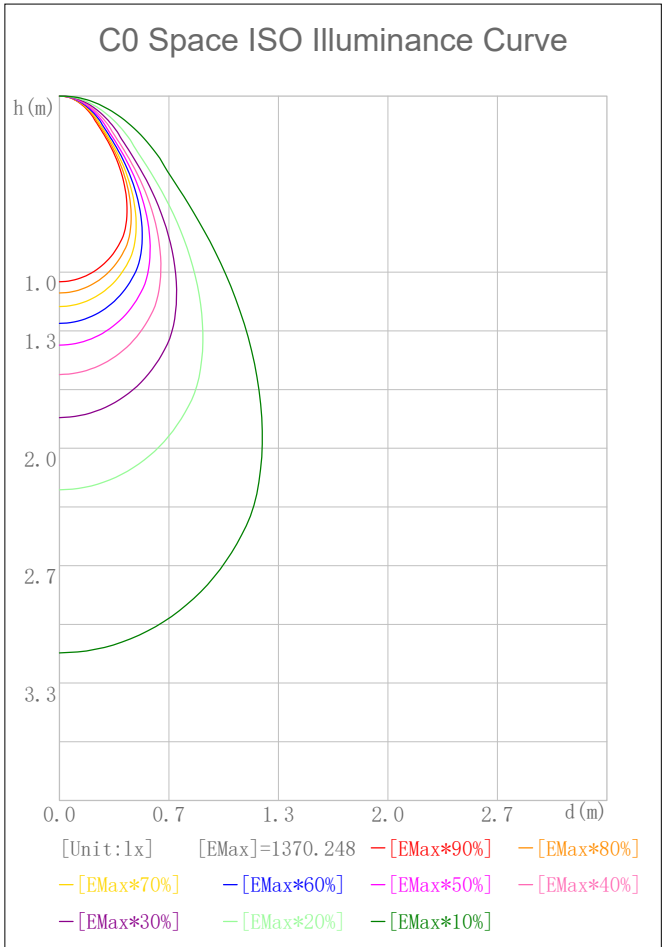
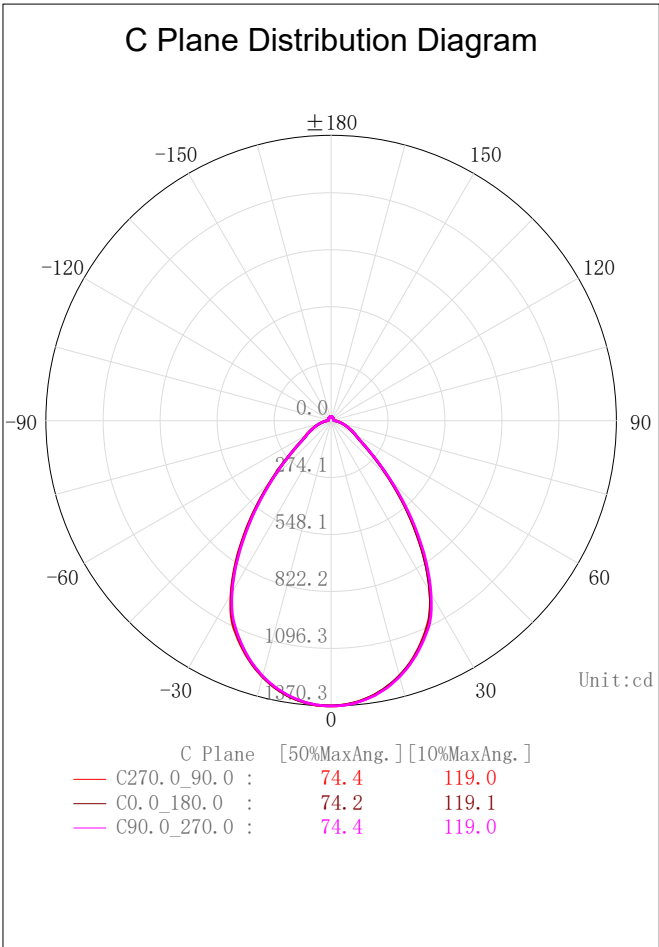
Indoor Luminaire Photometric Data

Description Information

| | | | |
|---|-------------------------|----------------------|-----------------------|
| Luminary Name: DL50-25-XX-01 3000K RA90 | | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | | Lamp Catalog: LED | Test Date: 2022/07/26 |
| Manufacture: Shenzhen Norming Lighting | | Shld. Ang(°): | Test Machine:GON-2000 |
| Test Lab: Quality Department | | Frequency (Hz): | Lamp CCT (K): Ra: |
| Lum. Size (W*L*H):0.083m*0.083m*0.000m | | Lum. Area (m2):0.005 | Lum. W (kg): 0.000 |
| Test System: C, γ | Test Step: C=90.0 γ=1.0 | Temp. (°C): 25 | Humidity(%): 50.0 |

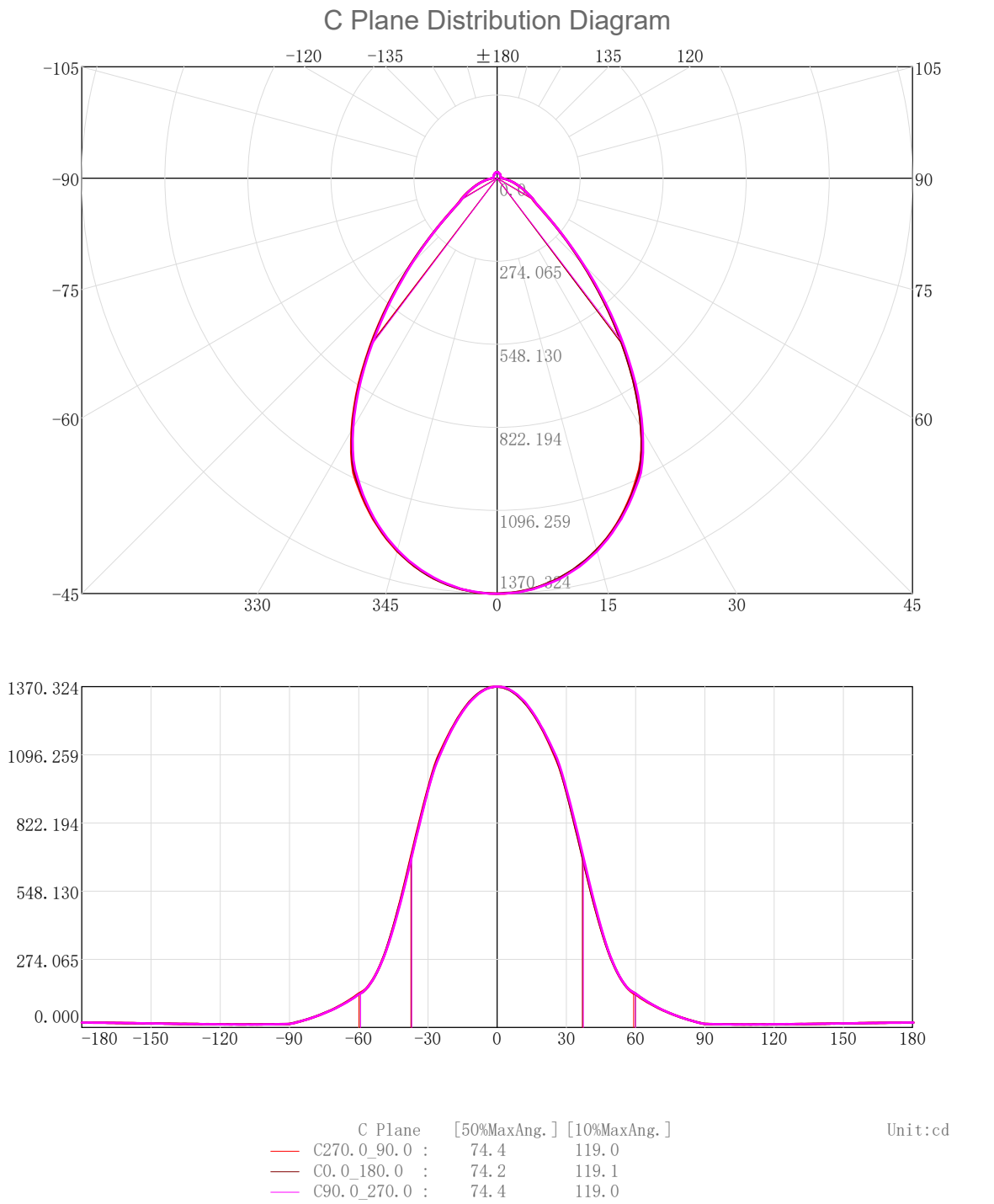
Character Parameter

| Lamp Speciality Parameter | | Luminaire Speciality Parameter | |
|---|----------------------------------|--|--|
| Rated Flux(lm): 2221.540 | Luminary Flux(lm): 2221.543 | Field Angle(10%Imax): 119.0(°) | |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 2132.133lm 95.98% | |
| Rated Voltage(V): | Luminary EER(lm/W): 93.578 | Up Lumens&Percent: 89.411lm 4.02% | |
| Tested Power(W): 23.740 | Max. Candela(cd): 1370.324 | S/MH: C0_a180=1.080 C90_270=1.082 | |
| Lamps' Inside: 1 | Max Cand@Ang. (°): C=270.0 γ=1.0 | CIE Type: Semi-Direct | |
| Tested Electrics (V, A, pf):240.0, 0.102, 0.965 | Beam Angle(50%Imax): 74.4(°) | ErP Φ use(90°): 1644.773lm | |
| Lamp Size (W*L*H):0.083m*0.083m*0.000m | Left=-37.4°, Right=37.0° | IRF(%): 159.032 | |



2D Plane Light Intensity Distribution Curve

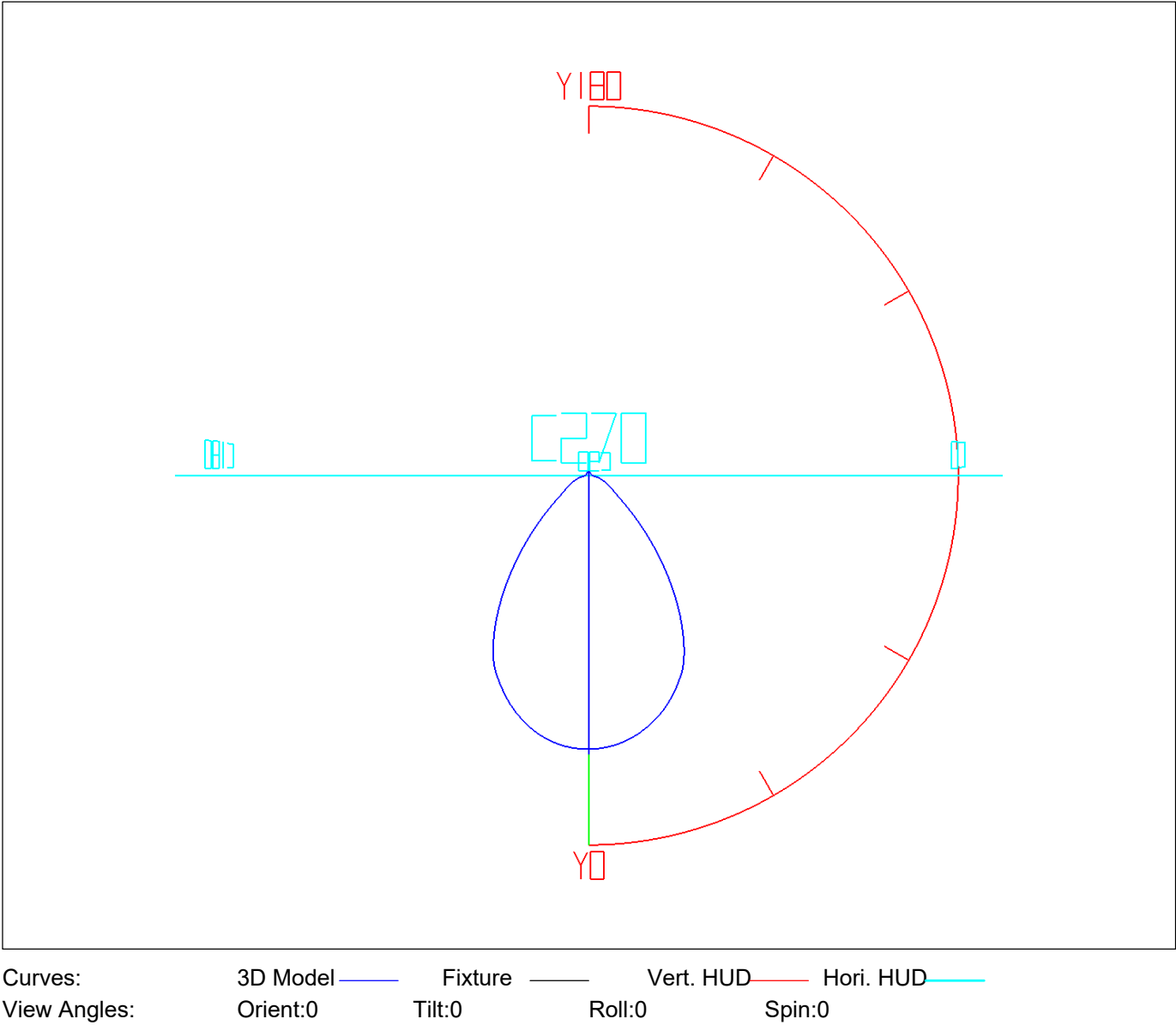
| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name:DL50-25-XX-01 3000K RA90 | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting | Test Machine:GON-2000 | Test Date:2022/07/26 |



3D Light Intensity Distribution Modal

| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name:DL50-25-XX-01 3000K RA90 | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting | Test Machine:GON-2000 | Test Date:2022/07/26 |

3D Light Intensity Distribution Modal



IES Indoor Report

Photometric Filename:DL50-25-XX-01 3000K RA90.IES

Zonal Flux Tabulation

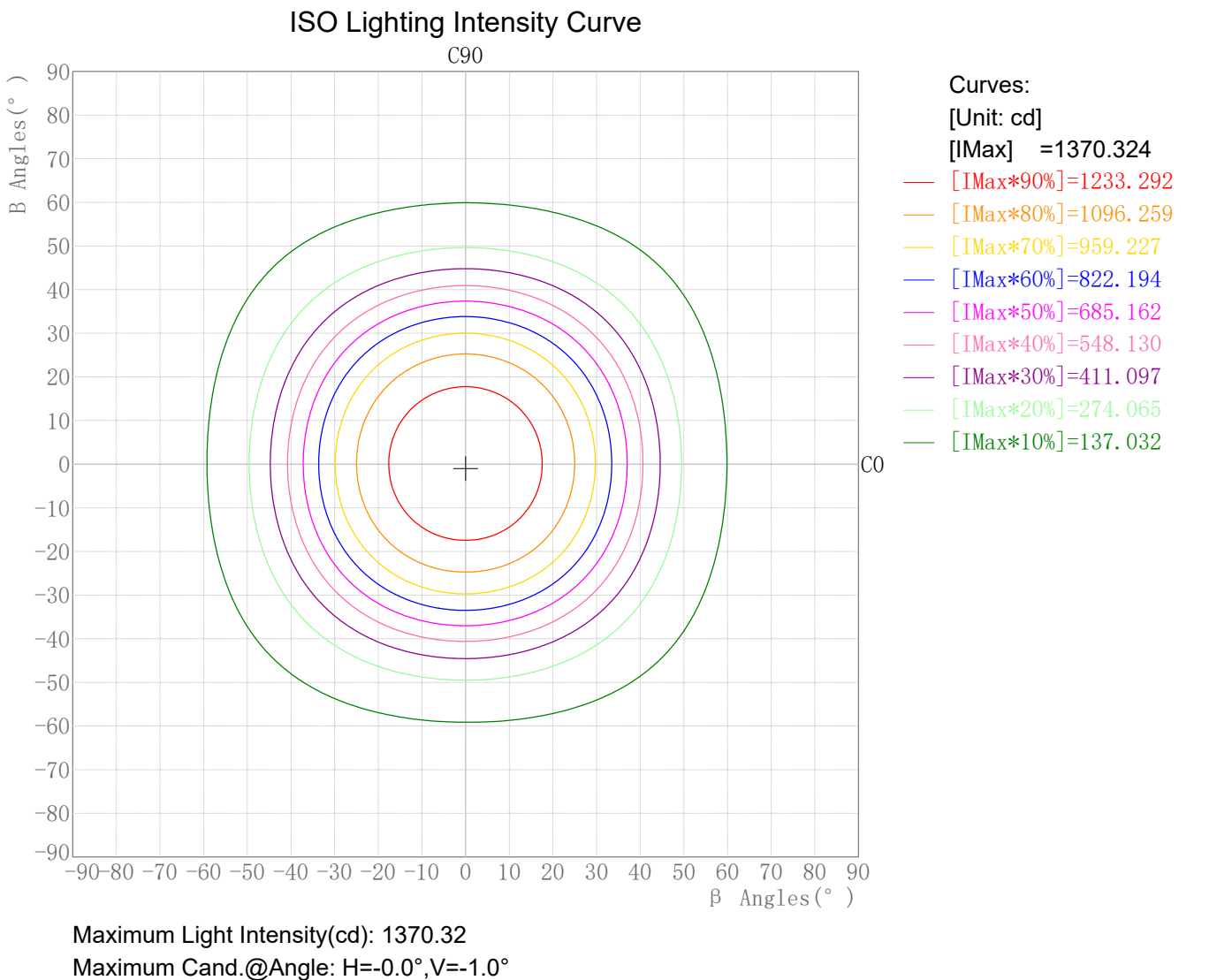
| Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|-----------|-------------------|-------------------|-----------|-----------|-----------|-------------------|-------------------|-----------|-----------|
| 0.0-1.0 | 1.31 | 1.31 | 0.06 | 0.06 | 47.0-48.0 | 26.40 | 1727.34 | 1.19 | 77.75 |
| 1.0-2.0 | 3.93 | 5.24 | 0.18 | 0.24 | 48.0-49.0 | 24.64 | 1751.99 | 1.11 | 78.86 |
| 2.0-3.0 | 6.54 | 11.78 | 0.29 | 0.53 | 49.0-50.0 | 22.97 | 1774.96 | 1.03 | 79.90 |
| 3.0-4.0 | 9.14 | 20.92 | 0.41 | 0.94 | 50.0-51.0 | 21.41 | 1796.37 | 0.96 | 80.86 |
| 4.0-5.0 | 11.71 | 32.64 | 0.53 | 1.47 | 51.0-52.0 | 19.97 | 1816.34 | 0.90 | 81.76 |
| 5.0-6.0 | 14.27 | 46.90 | 0.64 | 2.11 | 52.0-53.0 | 18.65 | 1834.99 | 0.84 | 82.60 |
| 6.0-7.0 | 16.78 | 63.68 | 0.76 | 2.87 | 53.0-54.0 | 17.44 | 1852.43 | 0.78 | 83.38 |
| 7.0-8.0 | 19.26 | 82.94 | 0.87 | 3.73 | 54.0-55.0 | 16.37 | 1868.79 | 0.74 | 84.12 |
| 8.0-9.0 | 21.70 | 104.64 | 0.98 | 4.71 | 55.0-56.0 | 15.40 | 1884.19 | 0.69 | 84.81 |
| 9.0-10.0 | 24.08 | 128.72 | 1.08 | 5.79 | 56.0-57.0 | 14.55 | 1898.73 | 0.65 | 85.47 |
| 10.0-11.0 | 26.41 | 155.13 | 1.19 | 6.98 | 57.0-58.0 | 13.85 | 1912.58 | 0.62 | 86.09 |
| 11.0-12.0 | 28.68 | 183.82 | 1.29 | 8.27 | 58.0-59.0 | 13.34 | 1925.93 | 0.60 | 86.69 |
| 12.0-13.0 | 30.88 | 214.70 | 1.39 | 9.66 | 59.0-60.0 | 12.98 | 1938.91 | 0.58 | 87.28 |
| 13.0-14.0 | 33.01 | 247.71 | 1.49 | 11.15 | 60.0-61.0 | 12.56 | 1951.47 | 0.57 | 87.84 |
| 14.0-15.0 | 35.07 | 282.78 | 1.58 | 12.73 | 61.0-62.0 | 12.04 | 1963.50 | 0.54 | 88.38 |
| 15.0-16.0 | 37.03 | 319.81 | 1.67 | 14.40 | 62.0-63.0 | 11.52 | 1975.03 | 0.52 | 88.90 |
| 16.0-17.0 | 38.92 | 358.73 | 1.75 | 16.15 | 63.0-64.0 | 11.04 | 1986.07 | 0.50 | 89.40 |
| 17.0-18.0 | 40.71 | 399.44 | 1.83 | 17.98 | 64.0-65.0 | 10.56 | 1996.63 | 0.48 | 89.88 |
| 18.0-19.0 | 42.40 | 441.84 | 1.91 | 19.89 | 65.0-66.0 | 10.08 | 2006.71 | 0.45 | 90.33 |
| 19.0-20.0 | 43.99 | 485.83 | 1.98 | 21.87 | 66.0-67.0 | 9.61 | 2016.32 | 0.43 | 90.76 |
| 20.0-21.0 | 45.47 | 531.30 | 2.05 | 23.92 | 67.0-68.0 | 9.16 | 2025.48 | 0.41 | 91.17 |
| 21.0-22.0 | 46.84 | 578.13 | 2.11 | 26.02 | 68.0-69.0 | 8.72 | 2034.20 | 0.39 | 91.57 |
| 22.0-23.0 | 48.10 | 626.24 | 2.17 | 28.19 | 69.0-70.0 | 8.29 | 2042.49 | 0.37 | 91.94 |
| 23.0-24.0 | 49.25 | 675.49 | 2.22 | 30.41 | 70.0-71.0 | 7.86 | 2050.35 | 0.35 | 92.29 |
| 24.0-25.0 | 50.30 | 725.79 | 2.26 | 32.67 | 71.0-72.0 | 7.44 | 2057.78 | 0.33 | 92.63 |
| 25.0-26.0 | 51.24 | 777.03 | 2.31 | 34.98 | 72.0-73.0 | 7.03 | 2064.82 | 0.32 | 92.95 |
| 26.0-27.0 | 51.93 | 828.96 | 2.34 | 37.31 | 73.0-74.0 | 6.64 | 2071.46 | 0.30 | 93.24 |
| 27.0-28.0 | 52.33 | 881.29 | 2.36 | 39.67 | 74.0-75.0 | 6.27 | 2077.73 | 0.28 | 93.53 |
| 28.0-29.0 | 52.47 | 933.76 | 2.36 | 42.03 | 75.0-76.0 | 5.90 | 2083.63 | 0.27 | 93.79 |
| 29.0-30.0 | 52.39 | 986.15 | 2.36 | 44.39 | 76.0-77.0 | 5.52 | 2089.15 | 0.25 | 94.04 |
| 30.0-31.0 | 52.10 | 1038.25 | 2.35 | 46.74 | 77.0-78.0 | 5.16 | 2094.32 | 0.23 | 94.27 |
| 31.0-32.0 | 51.60 | 1089.84 | 2.32 | 49.06 | 78.0-79.0 | 4.82 | 2099.14 | 0.22 | 94.49 |
| 32.0-33.0 | 50.90 | 1140.74 | 2.29 | 51.35 | 79.0-80.0 | 4.49 | 2103.63 | 0.20 | 94.69 |
| 33.0-34.0 | 50.02 | 1190.76 | 2.25 | 53.60 | 80.0-81.0 | 4.16 | 2107.79 | 0.19 | 94.88 |
| 34.0-35.0 | 48.94 | 1239.70 | 2.20 | 55.80 | 81.0-82.0 | 3.83 | 2111.62 | 0.17 | 95.05 |
| 35.0-36.0 | 47.71 | 1287.41 | 2.15 | 57.95 | 82.0-83.0 | 3.53 | 2115.15 | 0.16 | 95.21 |
| 36.0-37.0 | 46.34 | 1333.75 | 2.09 | 60.04 | 83.0-84.0 | 3.23 | 2118.38 | 0.15 | 95.36 |
| 37.0-38.0 | 44.83 | 1378.58 | 2.02 | 62.05 | 84.0-85.0 | 2.95 | 2121.34 | 0.13 | 95.49 |
| 38.0-39.0 | 43.20 | 1421.77 | 1.94 | 64.00 | 85.0-86.0 | 2.67 | 2124.01 | 0.12 | 95.61 |
| 39.0-40.0 | 41.47 | 1463.25 | 1.87 | 65.87 | 86.0-87.0 | 2.40 | 2126.40 | 0.11 | 95.72 |
| 40.0-41.0 | 39.68 | 1502.92 | 1.79 | 67.65 | 87.0-88.0 | 2.14 | 2128.54 | 0.10 | 95.81 |
| 41.0-42.0 | 37.81 | 1540.73 | 1.70 | 69.35 | 88.0-89.0 | 1.89 | 2130.44 | 0.09 | 95.90 |
| 42.0-43.0 | 35.89 | 1576.62 | 1.62 | 70.97 | 89.0-90.0 | 1.70 | 2132.13 | 0.08 | 95.98 |
| 43.0-44.0 | 33.95 | 1610.56 | 1.53 | 72.50 | 90.0-91.0 | 1.60 | 2133.73 | 0.07 | 96.05 |
| 44.0-45.0 | 32.02 | 1642.59 | 1.44 | 73.94 | 91.0-92.0 | 1.56 | 2135.29 | 0.07 | 96.12 |
| 45.0-46.0 | 30.12 | 1672.70 | 1.36 | 75.29 | 92.0-93.0 | 1.54 | 2136.83 | 0.07 | 96.19 |
| 46.0-47.0 | 28.24 | 1700.94 | 1.27 | 76.57 | 93.0-94.0 | 1.51 | 2138.34 | 0.07 | 96.25 |

Zonal Flux Tabulation - (Cont.)

| Zone (γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone (γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|-------------|-------------------|-------------------|-----------|-----------|-------------|-------------------|-------------------|-----------|-----------|
| 94.0-95.0 | 1.49 | 2139.83 | 0.07 | 96.32 | 141.0-142.0 | 1.05 | 2198.52 | 0.05 | 98.96 |
| 95.0-96.0 | 1.47 | 2141.31 | 0.07 | 96.39 | 142.0-143.0 | 1.04 | 2199.56 | 0.05 | 99.01 |
| 96.0-97.0 | 1.46 | 2142.76 | 0.07 | 96.45 | 143.0-144.0 | 1.02 | 2200.59 | 0.05 | 99.06 |
| 97.0-98.0 | 1.44 | 2144.20 | 0.06 | 96.52 | 144.0-145.0 | 1.02 | 2201.60 | 0.05 | 99.10 |
| 98.0-99.0 | 1.42 | 2145.62 | 0.06 | 96.58 | 145.0-146.0 | 1.01 | 2202.61 | 0.05 | 99.15 |
| 99.0-100.0 | 1.40 | 2147.02 | 0.06 | 96.65 | 146.0-147.0 | 0.99 | 2203.59 | 0.04 | 99.19 |
| 100.0-101.0 | 1.40 | 2148.42 | 0.06 | 96.71 | 147.0-148.0 | 0.96 | 2204.56 | 0.04 | 99.24 |
| 101.0-102.0 | 1.39 | 2149.81 | 0.06 | 96.77 | 148.0-149.0 | 0.94 | 2205.50 | 0.04 | 99.28 |
| 102.0-103.0 | 1.37 | 2151.17 | 0.06 | 96.83 | 149.0-150.0 | 0.92 | 2206.42 | 0.04 | 99.32 |
| 103.0-104.0 | 1.35 | 2152.52 | 0.06 | 96.89 | 150.0-151.0 | 0.90 | 2207.33 | 0.04 | 99.36 |
| 104.0-105.0 | 1.33 | 2153.85 | 0.06 | 96.95 | 151.0-152.0 | 0.88 | 2208.20 | 0.04 | 99.40 |
| 105.0-106.0 | 1.32 | 2155.18 | 0.06 | 97.01 | 152.0-153.0 | 0.85 | 2209.06 | 0.04 | 99.44 |
| 106.0-107.0 | 1.31 | 2156.49 | 0.06 | 97.07 | 153.0-154.0 | 0.83 | 2209.89 | 0.04 | 99.48 |
| 107.0-108.0 | 1.31 | 2157.80 | 0.06 | 97.13 | 154.0-155.0 | 0.81 | 2210.70 | 0.04 | 99.51 |
| 108.0-109.0 | 1.30 | 2159.10 | 0.06 | 97.19 | 155.0-156.0 | 0.79 | 2211.48 | 0.04 | 99.55 |
| 109.0-110.0 | 1.29 | 2160.40 | 0.06 | 97.25 | 156.0-157.0 | 0.77 | 2212.25 | 0.03 | 99.58 |
| 110.0-111.0 | 1.29 | 2161.69 | 0.06 | 97.31 | 157.0-158.0 | 0.74 | 2212.99 | 0.03 | 99.62 |
| 111.0-112.0 | 1.28 | 2162.97 | 0.06 | 97.36 | 158.0-159.0 | 0.72 | 2213.71 | 0.03 | 99.65 |
| 112.0-113.0 | 1.27 | 2164.24 | 0.06 | 97.42 | 159.0-160.0 | 0.69 | 2214.40 | 0.03 | 99.68 |
| 113.0-114.0 | 1.27 | 2165.52 | 0.06 | 97.48 | 160.0-161.0 | 0.66 | 2215.06 | 0.03 | 99.71 |
| 114.0-115.0 | 1.26 | 2166.78 | 0.06 | 97.54 | 161.0-162.0 | 0.63 | 2215.69 | 0.03 | 99.74 |
| 115.0-116.0 | 1.24 | 2168.02 | 0.06 | 97.59 | 162.0-163.0 | 0.61 | 2216.30 | 0.03 | 99.76 |
| 116.0-117.0 | 1.24 | 2169.27 | 0.06 | 97.65 | 163.0-164.0 | 0.58 | 2216.88 | 0.03 | 99.79 |
| 117.0-118.0 | 1.24 | 2170.51 | 0.06 | 97.70 | 164.0-165.0 | 0.54 | 2217.42 | 0.02 | 99.81 |
| 118.0-119.0 | 1.24 | 2171.75 | 0.06 | 97.76 | 165.0-166.0 | 0.51 | 2217.93 | 0.02 | 99.84 |
| 119.0-120.0 | 1.24 | 2172.99 | 0.06 | 97.81 | 166.0-167.0 | 0.48 | 2218.42 | 0.02 | 99.86 |
| 120.0-121.0 | 1.23 | 2174.22 | 0.06 | 97.87 | 167.0-168.0 | 0.45 | 2218.87 | 0.02 | 99.88 |
| 121.0-122.0 | 1.22 | 2175.44 | 0.05 | 97.92 | 168.0-169.0 | 0.42 | 2219.28 | 0.02 | 99.90 |
| 122.0-123.0 | 1.22 | 2176.66 | 0.05 | 97.98 | 169.0-170.0 | 0.39 | 2219.67 | 0.02 | 99.92 |
| 123.0-124.0 | 1.21 | 2177.86 | 0.05 | 98.03 | 170.0-171.0 | 0.35 | 2220.02 | 0.02 | 99.93 |
| 124.0-125.0 | 1.21 | 2179.07 | 0.05 | 98.09 | 171.0-172.0 | 0.32 | 2220.34 | 0.01 | 99.95 |
| 125.0-126.0 | 1.21 | 2180.27 | 0.05 | 98.14 | 172.0-173.0 | 0.28 | 2220.62 | 0.01 | 99.96 |
| 126.0-127.0 | 1.20 | 2181.47 | 0.05 | 98.20 | 173.0-174.0 | 0.24 | 2220.86 | 0.01 | 99.97 |
| 127.0-128.0 | 1.19 | 2182.66 | 0.05 | 98.25 | 174.0-175.0 | 0.21 | 2221.07 | 0.01 | 99.98 |
| 128.0-129.0 | 1.19 | 2183.85 | 0.05 | 98.30 | 175.0-176.0 | 0.17 | 2221.24 | 0.01 | 99.99 |
| 129.0-130.0 | 1.20 | 2185.05 | 0.05 | 98.36 | 176.0-177.0 | 0.13 | 2221.37 | 0.01 | 99.99 |
| 130.0-131.0 | 1.19 | 2186.24 | 0.05 | 98.41 | 177.0-178.0 | 0.10 | 2221.47 | 0.00 | 100.00 |
| 131.0-132.0 | 1.18 | 2187.42 | 0.05 | 98.46 | 178.0-179.0 | 0.06 | 2221.52 | 0.00 | 100.00 |
| 132.0-133.0 | 1.16 | 2188.58 | 0.05 | 98.52 | 179.0-180.0 | 0.02 | 2221.54 | 0.00 | 100.00 |
| 133.0-134.0 | 1.15 | 2189.73 | 0.05 | 98.57 | | | | | |
| 134.0-135.0 | 1.15 | 2190.88 | 0.05 | 98.62 | | | | | |
| 135.0-136.0 | 1.13 | 2192.01 | 0.05 | 98.67 | | | | | |
| 136.0-137.0 | 1.11 | 2193.12 | 0.05 | 98.72 | | | | | |
| 137.0-138.0 | 1.10 | 2194.22 | 0.05 | 98.77 | | | | | |
| 138.0-139.0 | 1.09 | 2195.32 | 0.05 | 98.82 | | | | | |
| 139.0-140.0 | 1.08 | 2196.40 | 0.05 | 98.87 | | | | | |
| 140.0-141.0 | 1.07 | 2197.47 | 0.05 | 98.92 | | | | | |

Rectangle ISO Lighting Intensity Diagram

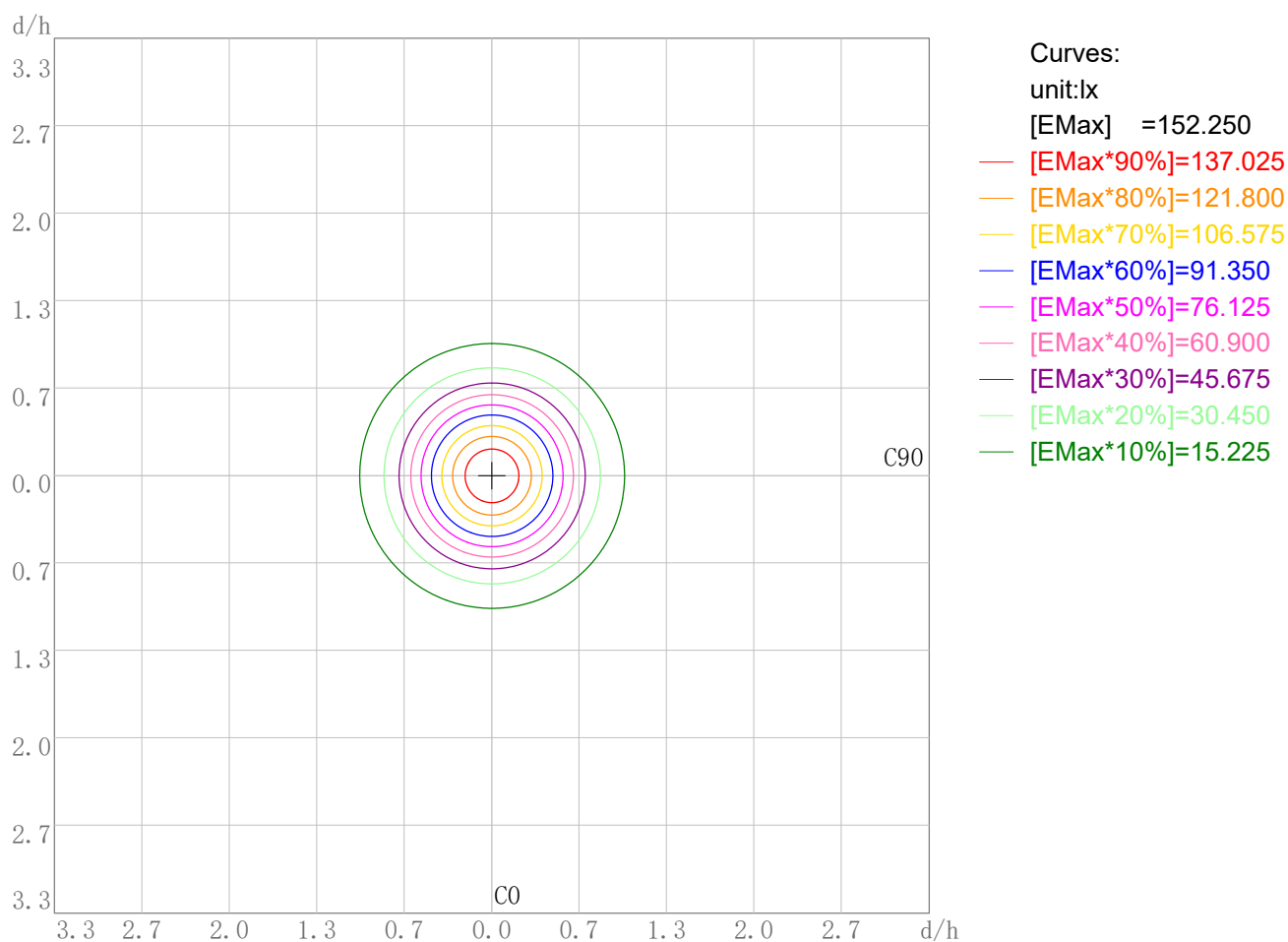
| | | |
|--|-----------------------|------------------------------|
| Lum. Name:DL50-25-XX-01 3000K RA90 | Lum. Catalog: | Test ID:01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting | Test Machine:GON-2000 | Test Date: 2022/07/26 |



Plane ISO-Illuminance Diagram

| | | |
|--|-----------------------|------------------------------|
| Lum. Name: DL50-25-XX-01 3000K RA90 | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting | Test Machine:GON-2000 | Test Date: 2022/07/26 |

Plane ISO-Illuminance Curve

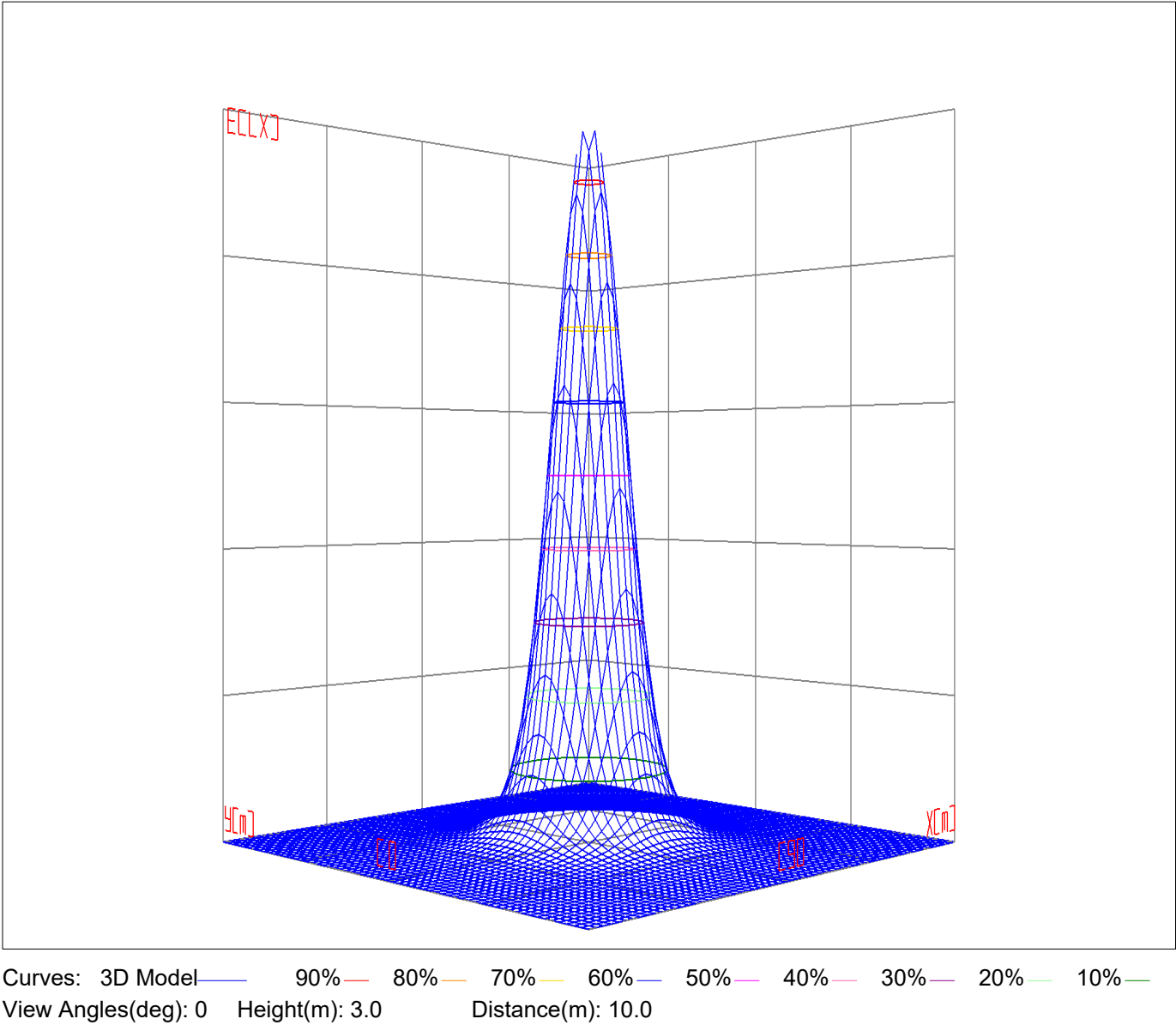


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 152.25
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

| | | |
|--|-----------------------|------------------------------|
| Lum. Name: DL50-25-XX-01 3000K RA90 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting | Test Machine:GON-2000 | Test Date: 2022/07/26 |

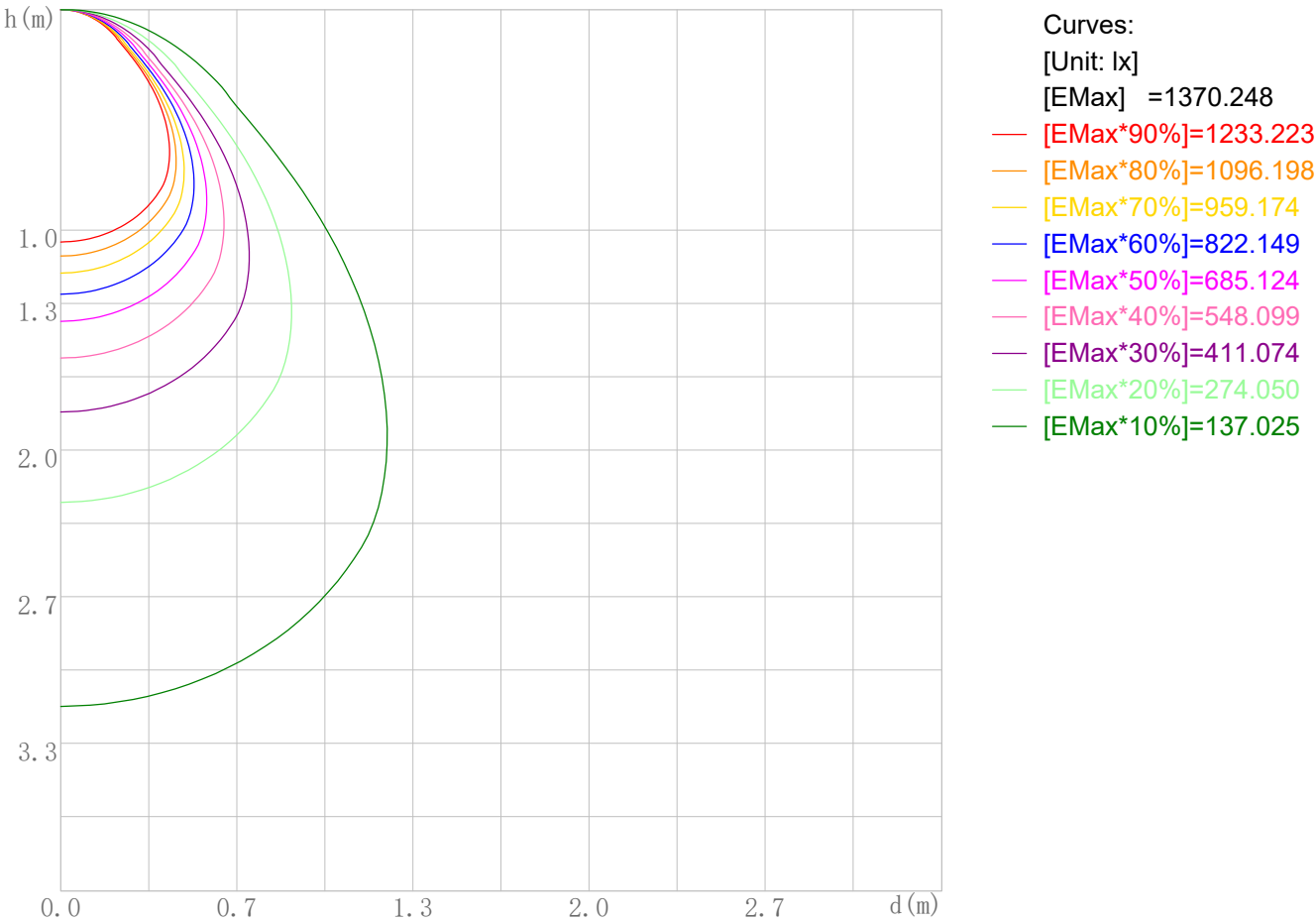
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

| | | |
|--|-----------------------|------------------------------|
| Lum. Name: DL50-25-XX-01 3000K RA90 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting | Test Machine:GON-2000 | Test Date: 2022/07/26 |

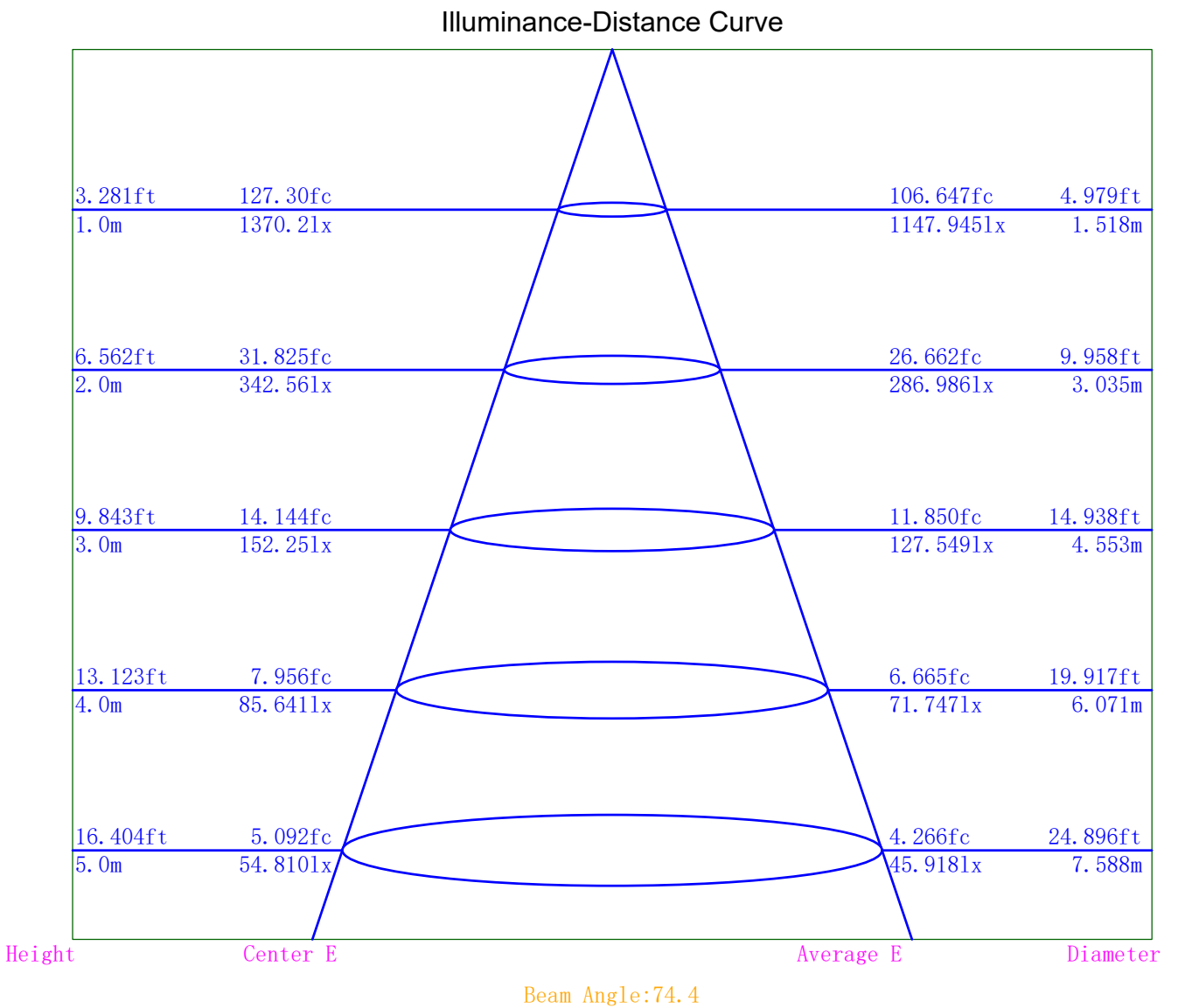
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:1370.25lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:1370.248cd,0deg

Illuminance-Distance Diagram

| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name:DL50-25-XX-01 3000K RA90 | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting | Test Machine:GON-2000 | Test Date:2022/07/26 |



Indoor Luminance Limiting Curves

| | | |
|--|-----------------------|------------------------------|
| Lum. Name: DL50-25-XX-01 3000K RA90 | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting | Test Machine:GON-2000 | Test Date: 2022/07/26 |

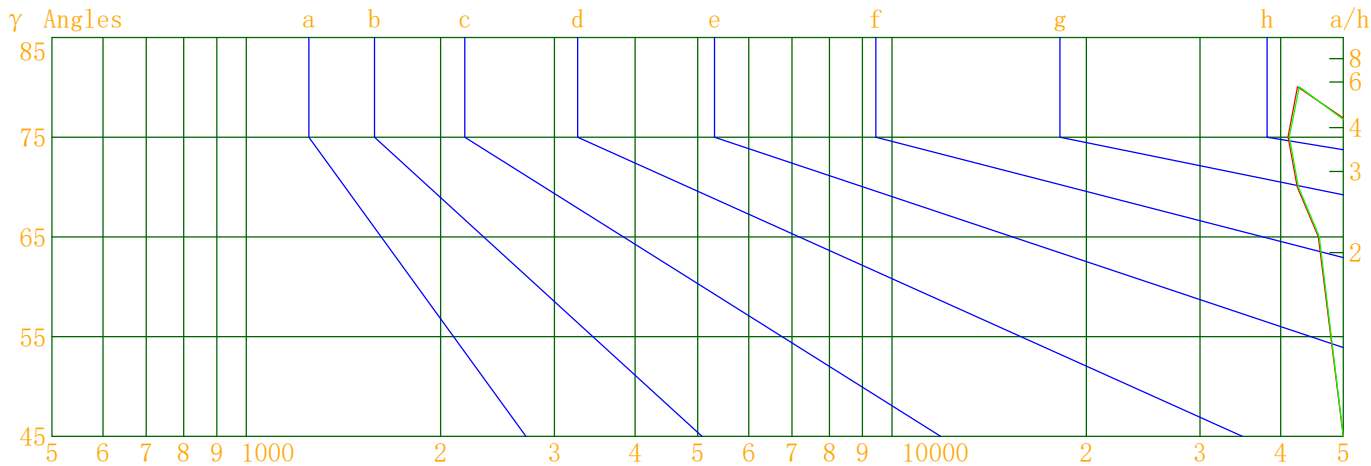
Glare Grade Table

| GI | Quality | Using Illuminance | | | | | | | |
|------|---------|-------------------|------|------|-------|-------|-------|-------|-------|
| 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 | a | | | | 2000 | 1000 | 500 | <=300 |
| | | | b | c | d | e | f | g | h |

Luminance Table

| Gama(deg) | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0 | 103878 | 75349 | 56862 | 50394 | 45741 | 42409 | 41057 | 42464 | 54862 |
| C90 | 105762 | 76357 | 57263 | 50480 | 45897 | 42602 | 41258 | 42726 | 54111 |

Luminance Limiting Curve



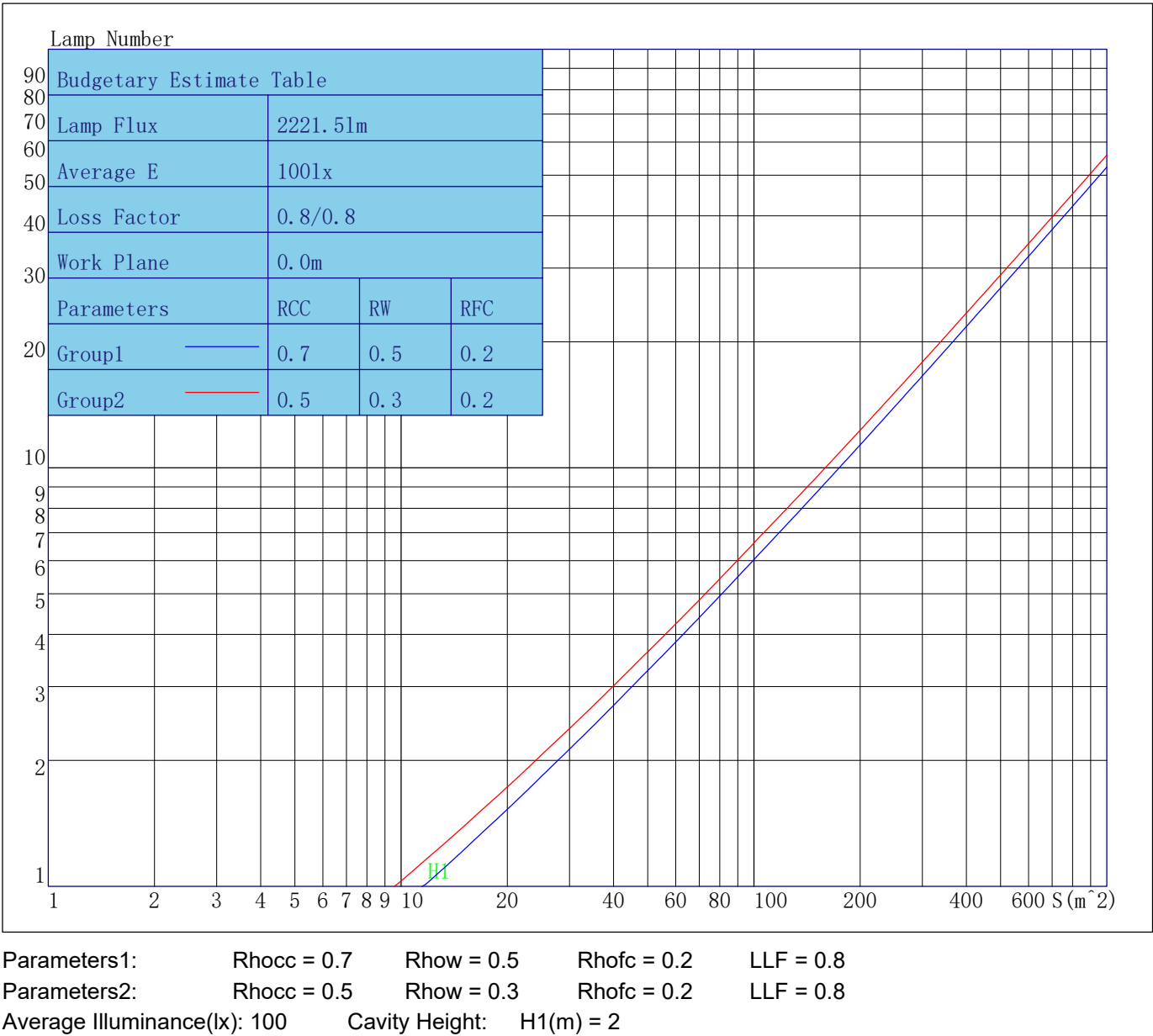
Luminous Size: Length(m)=-0.083 Width(m)=-0.083 Height(m)=0.000 Area(m^2)=0.005411

Luminous Type: Without Luminous Side

Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

| | | |
|--|-----------------------|------------------------------|
| Lum. Name:DL50-25-XX-01 3000K RA90 | Lum. Catalog: | Test ID:01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting | Test Machine:GON-2000 | Test Date: 2022/07/26 |



Indoor Coefficient of Utilization Table

| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name:DL50-25-XX-01 3000K RA90 | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting | Test Machine:GON-2000 | Test Date:2022/07/26 |

| Coefficients of Utilization - Zonal Cavity Method | | | | | | | | | | | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| Coef. | Effective Floor Cavity Reflectance RFC=0.20 | | | | | | | | | | | | | | | | | |
| RhoCC (%) | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
| RhoW (%) | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | Coefficient of Utilization(%) | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 96 |
| 1 | 110 | 106 | 103 | 100 | 107 | 104 | 101 | 98 | 99 | 96 | 94 | 94 | 92 | 91 | 90 | 89 | 87 | 85 |
| 2 | 102 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 90 | 86 | 82 | 86 | 83 | 80 | 83 | 80 | 77 | 75 |
| 3 | 95 | 87 | 80 | 75 | 93 | 85 | 79 | 74 | 82 | 77 | 72 | 79 | 74 | 71 | 76 | 72 | 69 | 67 |
| 4 | 89 | 79 | 72 | 66 | 86 | 78 | 71 | 66 | 75 | 69 | 64 | 72 | 67 | 63 | 70 | 65 | 62 | 60 |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 66 | 61 | 57 | 64 | 60 | 56 | 54 |
| 6 | 78 | 66 | 59 | 53 | 76 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 59 | 55 | 51 | 49 |
| 7 | 73 | 61 | 54 | 49 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | 57 | 51 | 47 | 55 | 50 | 47 | 45 |
| 8 | 68 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 47 | 43 | 52 | 46 | 43 | 41 |
| 9 | 64 | 53 | 46 | 41 | 63 | 52 | 45 | 41 | 51 | 44 | 40 | 49 | 44 | 40 | 48 | 43 | 39 | 38 |
| 10 | 61 | 49 | 42 | 38 | 59 | 49 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 45 | 40 | 36 | 35 |

Unified Glare Rating Table

| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name:DL50-25-XX-01 3000K RA90 | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting | Test Machine:GON-2000 | Test Date:2022/07/26 |

Unified Glare Rating Table

| | | | | | | | | | | |
|---|-----------------|------|------|------|------|---------------|------|------|------|------|
| Ceiling RCC | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
| Wall RW | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 |
| Floor RFC | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Room Size | Vewed crosswise | | | | | Vewed endwise | | | | |
| X=2H Y=2H | 25.6 | 26.8 | 26.0 | 27.2 | 27.6 | 25.6 | 26.9 | 26.1 | 27.3 | 27.7 |
| | 26.3 | 27.4 | 26.7 | 27.8 | 28.3 | 26.3 | 27.4 | 26.8 | 27.8 | 28.3 |
| | 26.6 | 27.7 | 27.1 | 28.1 | 28.6 | 26.7 | 27.7 | 27.2 | 28.1 | 28.6 |
| | 27.0 | 27.9 | 27.4 | 28.4 | 28.9 | 27.0 | 28.0 | 27.5 | 28.4 | 28.9 |
| | 27.1 | 28.0 | 27.6 | 28.5 | 29.0 | 27.2 | 28.1 | 27.7 | 28.5 | 29.0 |
| | 27.3 | 28.2 | 27.8 | 28.6 | 29.1 | 27.3 | 28.2 | 27.8 | 28.7 | 29.2 |
| X=4H Y=2H | 25.8 | 26.8 | 26.3 | 27.3 | 27.7 | 25.9 | 26.9 | 26.3 | 27.3 | 27.8 |
| | 26.7 | 27.6 | 27.2 | 28.1 | 28.6 | 26.8 | 27.6 | 27.3 | 28.1 | 28.6 |
| | 27.2 | 28.0 | 27.7 | 28.5 | 29.0 | 27.3 | 28.0 | 27.8 | 28.5 | 29.1 |
| | 27.7 | 28.4 | 28.2 | 28.9 | 29.5 | 27.8 | 28.4 | 28.3 | 28.9 | 29.5 |
| | 27.9 | 28.6 | 28.5 | 29.1 | 29.6 | 28.0 | 28.6 | 28.5 | 29.1 | 29.7 |
| | 28.2 | 28.7 | 28.7 | 29.3 | 29.9 | 28.2 | 28.8 | 28.8 | 29.3 | 29.9 |
| X=8H Y=4H | 27.4 | 28.0 | 27.9 | 28.5 | 29.1 | 27.4 | 28.0 | 28.0 | 28.6 | 29.1 |
| | 28.0 | 28.5 | 28.6 | 29.1 | 29.7 | 28.1 | 28.6 | 28.6 | 29.1 | 29.8 |
| | 28.4 | 28.8 | 29.0 | 29.4 | 30.0 | 28.4 | 28.9 | 29.0 | 29.4 | 30.0 |
| | 28.8 | 29.2 | 29.3 | 29.7 | 30.4 | 28.8 | 29.2 | 29.4 | 29.7 | 30.4 |
| X=12H Y=4H | 27.4 | 27.9 | 27.9 | 28.5 | 29.1 | 27.4 | 28.0 | 28.0 | 28.5 | 29.1 |
| | 28.1 | 28.5 | 28.7 | 29.1 | 29.7 | 28.1 | 28.6 | 28.7 | 29.1 | 29.8 |
| | 28.5 | 28.9 | 29.1 | 29.5 | 30.1 | 28.5 | 28.9 | 29.1 | 29.5 | 30.1 |
| Variations with the objerver position at spacings | | | | | | | | | | |
| S=1.0H | 0.3/-0.3 | | | | | 0.3/-0.3 | | | | |
| S=1.5H | 0.6/-0.6 | | | | | 0.6/-0.6 | | | | |
| S=2.0H | 0.7/-0.8 | | | | | 0.7/-0.8 | | | | |
| Reduced UGR Table: | | | | | | | | | | |
| Nordic Standard Table: | BK0 | | | | | BK0 | | | | |
| Correction Value | 2.2 | | | | | 2.1 | | | | |

o the CIE Pub.117,data has been corrected,refers to the lamp’s lumens 8.2flm.

Candela Tabulation

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|---------|---------|---------|---------|
| γ 0.0 | 1370.25 | 1370.25 | 1370.25 | 1370.25 |
| γ 1.0 | 1368.43 | 1370.19 | 1369.57 | 1370.32 |
| γ 2.0 | 1368.08 | 1368.95 | 1368.36 | 1368.82 |
| γ 3.0 | 1365.80 | 1368.10 | 1367.73 | 1366.06 |
| γ 4.0 | 1361.87 | 1363.95 | 1363.81 | 1363.26 |
| γ 5.0 | 1358.43 | 1360.70 | 1360.68 | 1360.05 |
| γ 6.0 | 1353.60 | 1355.23 | 1355.78 | 1353.57 |
| γ 7.0 | 1346.85 | 1349.78 | 1350.50 | 1347.91 |
| γ 8.0 | 1340.54 | 1343.40 | 1343.75 | 1341.52 |
| γ 9.0 | 1332.94 | 1336.98 | 1336.43 | 1333.76 |
| γ 10.0 | 1324.04 | 1327.74 | 1328.06 | 1324.70 |
| γ 11.0 | 1315.44 | 1318.77 | 1318.79 | 1315.99 |
| γ 12.0 | 1304.08 | 1309.40 | 1307.87 | 1305.09 |
| γ 13.0 | 1293.80 | 1297.77 | 1296.76 | 1294.38 |
| γ 14.0 | 1281.88 | 1285.35 | 1284.92 | 1281.90 |
| γ 15.0 | 1268.77 | 1273.52 | 1271.40 | 1269.16 |
| γ 16.0 | 1255.98 | 1259.24 | 1256.34 | 1254.83 |
| γ 17.0 | 1241.56 | 1245.19 | 1243.07 | 1240.33 |
| γ 18.0 | 1226.23 | 1229.52 | 1226.96 | 1224.39 |
| γ 19.0 | 1209.54 | 1212.76 | 1210.41 | 1208.27 |
| γ 20.0 | 1192.51 | 1196.63 | 1192.94 | 1190.74 |
| γ 21.0 | 1174.18 | 1178.20 | 1174.48 | 1171.78 |
| γ 22.0 | 1156.12 | 1160.05 | 1155.16 | 1152.56 |
| γ 23.0 | 1136.38 | 1140.98 | 1135.91 | 1132.70 |
| γ 24.0 | 1116.06 | 1121.55 | 1115.94 | 1111.45 |
| γ 25.0 | 1096.08 | 1102.11 | 1096.16 | 1090.08 |
| γ 26.0 | 1073.16 | 1081.38 | 1074.55 | 1068.58 |
| γ 27.0 | 1045.85 | 1054.73 | 1049.11 | 1043.33 |
| γ 28.0 | 1016.26 | 1025.27 | 1018.84 | 1014.37 |
| γ 29.0 | 983.53 | 993.29 | 987.73 | 982.95 |
| γ 30.0 | 949.14 | 959.92 | 955.08 | 949.45 |
| γ 31.0 | 914.08 | 925.73 | 919.97 | 914.85 |
| γ 32.0 | 876.97 | 890.27 | 883.96 | 877.97 |
| γ 33.0 | 839.97 | 853.25 | 847.34 | 841.13 |
| γ 34.0 | 801.70 | 816.24 | 808.76 | 802.41 |
| γ 35.0 | 762.76 | 777.39 | 770.54 | 764.11 |
| γ 36.0 | 723.86 | 738.18 | 732.01 | 725.20 |
| γ 37.0 | 685.45 | 699.68 | 692.79 | 685.71 |
| γ 38.0 | 647.11 | 660.52 | 654.38 | 646.36 |
| γ 39.0 | 608.60 | 621.83 | 615.09 | 608.22 |
| γ 40.0 | 571.19 | 583.55 | 577.59 | 570.58 |
| γ 41.0 | 534.19 | 545.46 | 540.58 | 533.75 |
| γ 42.0 | 498.05 | 508.37 | 504.41 | 497.57 |
| γ 43.0 | 463.26 | 472.30 | 469.38 | 461.70 |
| γ 44.0 | 429.76 | 437.47 | 435.56 | 428.46 |
| γ 45.0 | 397.42 | 404.63 | 402.79 | 396.96 |
| γ 46.0 | 367.00 | 373.03 | 372.10 | 366.35 |

IES Indoor Report

Photometric Filename:DL50-25-XX-01 3000K RA90.IES

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|--------|--------|--------|--------|
| γ 47.0 | 337.52 | 342.93 | 342.83 | 337.94 |
| γ 48.0 | 311.02 | 314.90 | 314.64 | 310.79 |
| γ 49.0 | 285.23 | 289.23 | 288.67 | 286.03 |
| γ 50.0 | 262.05 | 265.56 | 264.24 | 262.96 |
| γ 51.0 | 241.02 | 243.91 | 242.46 | 241.85 |
| γ 52.0 | 222.06 | 224.65 | 222.88 | 222.92 |
| γ 53.0 | 205.09 | 206.99 | 205.05 | 205.07 |
| γ 54.0 | 189.89 | 191.14 | 189.57 | 189.76 |
| γ 55.0 | 176.46 | 177.71 | 175.81 | 176.21 |
| γ 56.0 | 164.84 | 165.28 | 163.02 | 163.56 |
| γ 57.0 | 155.02 | 155.10 | 152.54 | 153.15 |
| γ 58.0 | 147.21 | 147.13 | 143.69 | 144.16 |
| γ 59.0 | 141.82 | 141.98 | 138.06 | 137.60 |
| γ 60.0 | 136.33 | 136.56 | 133.98 | 132.77 |
| γ 61.0 | 129.32 | 130.05 | 127.19 | 126.64 |
| γ 62.0 | 122.64 | 123.13 | 120.41 | 119.69 |
| γ 63.0 | 116.26 | 117.01 | 114.73 | 113.81 |
| γ 64.0 | 110.42 | 110.95 | 108.79 | 108.11 |
| γ 65.0 | 104.59 | 104.95 | 103.22 | 102.37 |
| γ 66.0 | 98.86 | 99.20 | 97.93 | 97.11 |
| γ 67.0 | 93.45 | 93.78 | 92.41 | 92.06 |
| γ 68.0 | 88.18 | 88.69 | 87.55 | 86.94 |
| γ 69.0 | 83.26 | 84.05 | 82.80 | 82.20 |
| γ 70.0 | 78.48 | 78.84 | 78.26 | 77.63 |
| γ 71.0 | 73.93 | 74.20 | 73.79 | 73.08 |
| γ 72.0 | 69.32 | 69.65 | 69.34 | 68.85 |
| γ 73.0 | 65.16 | 65.40 | 65.43 | 64.78 |
| γ 74.0 | 60.93 | 61.40 | 61.48 | 60.95 |
| γ 75.0 | 57.49 | 57.78 | 57.79 | 57.01 |
| γ 76.0 | 53.43 | 53.60 | 54.19 | 53.31 |
| γ 77.0 | 49.62 | 49.89 | 50.41 | 49.75 |
| γ 78.0 | 46.42 | 46.50 | 46.92 | 46.36 |
| γ 79.0 | 43.03 | 43.29 | 43.43 | 43.10 |
| γ 80.0 | 39.90 | 40.14 | 40.39 | 39.75 |
| γ 81.0 | 36.71 | 36.45 | 37.59 | 36.71 |
| γ 82.0 | 33.93 | 33.54 | 34.13 | 33.81 |
| γ 83.0 | 30.98 | 30.67 | 31.54 | 31.00 |
| γ 84.0 | 27.92 | 28.00 | 28.57 | 28.68 |
| γ 85.0 | 25.87 | 25.52 | 26.17 | 25.67 |
| γ 86.0 | 23.12 | 22.78 | 23.63 | 22.86 |
| γ 87.0 | 20.82 | 19.94 | 21.58 | 20.34 |
| γ 88.0 | 18.78 | 18.04 | 18.83 | 17.73 |
| γ 89.0 | 16.13 | 16.25 | 16.55 | 15.91 |
| γ 90.0 | 14.88 | 14.60 | 14.88 | 14.61 |
| γ 91.0 | 14.61 | 14.15 | 14.22 | 14.47 |
| γ 92.0 | 14.34 | 14.13 | 14.02 | 14.01 |
| γ 93.0 | 14.11 | 13.86 | 13.95 | 13.71 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|-------|-------|--------|--------|
| γ 94.0 | 13.80 | 13.74 | 13.90 | 13.60 |
| γ 95.0 | 13.55 | 13.45 | 13.64 | 13.47 |
| γ 96.0 | 13.53 | 13.49 | 13.59 | 13.33 |
| γ 97.0 | 13.38 | 13.40 | 13.36 | 13.01 |
| γ 98.0 | 13.22 | 13.20 | 13.21 | 12.99 |
| γ 99.0 | 13.06 | 12.99 | 13.09 | 12.76 |
| γ 100.0 | 13.21 | 12.93 | 13.09 | 12.77 |
| γ 101.0 | 13.01 | 12.82 | 13.12 | 12.77 |
| γ 102.0 | 13.01 | 12.70 | 13.16 | 12.58 |
| γ 103.0 | 12.61 | 12.58 | 12.81 | 12.71 |
| γ 104.0 | 12.55 | 12.56 | 12.69 | 12.49 |
| γ 105.0 | 12.44 | 12.74 | 12.48 | 12.55 |
| γ 106.0 | 12.30 | 12.58 | 12.59 | 12.60 |
| γ 107.0 | 12.28 | 12.75 | 12.63 | 12.15 |
| γ 108.0 | 12.21 | 12.74 | 12.81 | 12.65 |
| γ 109.0 | 12.35 | 12.50 | 12.45 | 12.49 |
| γ 110.0 | 12.17 | 12.69 | 12.64 | 12.63 |
| γ 111.0 | 12.85 | 12.59 | 12.59 | 12.53 |
| γ 112.0 | 12.25 | 12.67 | 12.44 | 12.67 |
| γ 113.0 | 12.62 | 12.74 | 12.56 | 12.59 |
| γ 114.0 | 12.48 | 12.79 | 12.85 | 12.75 |
| γ 115.0 | 12.20 | 12.47 | 12.65 | 12.85 |
| γ 116.0 | 12.23 | 12.56 | 12.94 | 12.71 |
| γ 117.0 | 12.23 | 13.30 | 12.73 | 12.73 |
| γ 118.0 | 12.40 | 13.00 | 12.56 | 12.99 |
| γ 119.0 | 12.53 | 13.29 | 12.97 | 13.01 |
| γ 120.0 | 12.75 | 13.40 | 12.90 | 13.27 |
| γ 121.0 | 12.38 | 13.31 | 12.92 | 13.26 |
| γ 122.0 | 12.81 | 13.50 | 12.89 | 13.34 |
| γ 123.0 | 12.81 | 13.61 | 13.03 | 13.29 |
| γ 124.0 | 12.76 | 13.48 | 13.27 | 13.43 |
| γ 125.0 | 13.08 | 13.83 | 13.30 | 13.54 |
| γ 126.0 | 13.38 | 13.87 | 13.49 | 13.54 |
| γ 127.0 | 13.38 | 13.79 | 13.61 | 13.75 |
| γ 128.0 | 13.43 | 13.76 | 13.59 | 13.97 |
| γ 129.0 | 13.97 | 14.34 | 14.03 | 13.96 |
| γ 130.0 | 13.93 | 14.36 | 14.42 | 14.13 |
| γ 131.0 | 13.97 | 14.16 | 14.50 | 14.46 |
| γ 132.0 | 14.37 | 14.37 | 14.64 | 14.27 |
| γ 133.0 | 14.12 | 14.58 | 14.55 | 14.26 |
| γ 134.0 | 14.19 | 14.77 | 14.71 | 14.52 |
| γ 135.0 | 14.50 | 14.62 | 15.14 | 14.76 |
| γ 136.0 | 14.47 | 14.55 | 14.93 | 14.70 |
| γ 137.0 | 15.01 | 14.75 | 14.80 | 14.85 |
| γ 138.0 | 14.85 | 15.06 | 14.82 | 15.10 |
| γ 139.0 | 15.01 | 15.29 | 15.05 | 15.16 |
| γ 140.0 | 15.08 | 15.38 | 15.22 | 15.42 |

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Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|-------|-------|--------|--------|
| γ 141.0 | 15.04 | 15.53 | 15.29 | 15.47 |
| γ 142.0 | 15.34 | 15.61 | 15.80 | 15.43 |
| γ 143.0 | 15.44 | 15.80 | 15.63 | 15.51 |
| γ 144.0 | 15.81 | 15.81 | 15.93 | 15.75 |
| γ 145.0 | 16.09 | 16.17 | 16.16 | 16.03 |
| γ 146.0 | 15.96 | 16.11 | 16.65 | 16.31 |
| γ 147.0 | 16.04 | 16.35 | 16.67 | 16.33 |
| γ 148.0 | 16.26 | 16.27 | 16.45 | 16.22 |
| γ 149.0 | 16.31 | 16.56 | 16.78 | 16.69 |
| γ 150.0 | 16.42 | 16.63 | 16.55 | 16.98 |
| γ 151.0 | 16.53 | 16.91 | 16.66 | 17.04 |
| γ 152.0 | 16.66 | 16.88 | 16.67 | 16.85 |
| γ 153.0 | 16.63 | 16.99 | 16.87 | 17.14 |
| γ 154.0 | 16.99 | 17.02 | 16.89 | 17.18 |
| γ 155.0 | 17.29 | 17.11 | 17.22 | 17.40 |
| γ 156.0 | 17.35 | 17.28 | 17.26 | 17.58 |
| γ 157.0 | 17.72 | 17.62 | 17.52 | 17.70 |
| γ 158.0 | 17.91 | 17.71 | 17.61 | 18.03 |
| γ 159.0 | 17.98 | 17.80 | 17.83 | 17.85 |
| γ 160.0 | 18.05 | 18.06 | 17.80 | 18.17 |
| γ 161.0 | 18.18 | 17.97 | 17.99 | 18.40 |
| γ 162.0 | 18.25 | 18.47 | 18.01 | 18.54 |
| γ 163.0 | 18.52 | 18.31 | 18.23 | 18.72 |
| γ 164.0 | 18.62 | 18.55 | 18.31 | 18.51 |
| γ 165.0 | 18.77 | 18.49 | 18.60 | 18.65 |
| γ 166.0 | 18.77 | 18.84 | 18.78 | 18.86 |
| γ 167.0 | 18.94 | 18.90 | 18.95 | 18.91 |
| γ 168.0 | 19.15 | 18.85 | 19.06 | 19.11 |
| γ 169.0 | 19.45 | 19.23 | 19.03 | 18.93 |
| γ 170.0 | 19.39 | 19.24 | 19.76 | 19.27 |
| γ 171.0 | 19.52 | 19.36 | 19.55 | 19.61 |
| γ 172.0 | 19.74 | 19.38 | 19.42 | 19.51 |
| γ 173.0 | 19.72 | 19.43 | 19.76 | 19.67 |
| γ 174.0 | 19.53 | 19.59 | 19.57 | 19.72 |
| γ 175.0 | 19.66 | 19.58 | 19.64 | 19.57 |
| γ 176.0 | 20.03 | 19.91 | 19.75 | 19.78 |
| γ 177.0 | 20.27 | 19.99 | 19.94 | 19.87 |
| γ 178.0 | 19.98 | 19.83 | 19.71 | 19.67 |
| γ 179.0 | 19.89 | 19.88 | 19.73 | 20.08 |
| γ 180.0 | 20.14 | 20.14 | 20.14 | 20.14 |