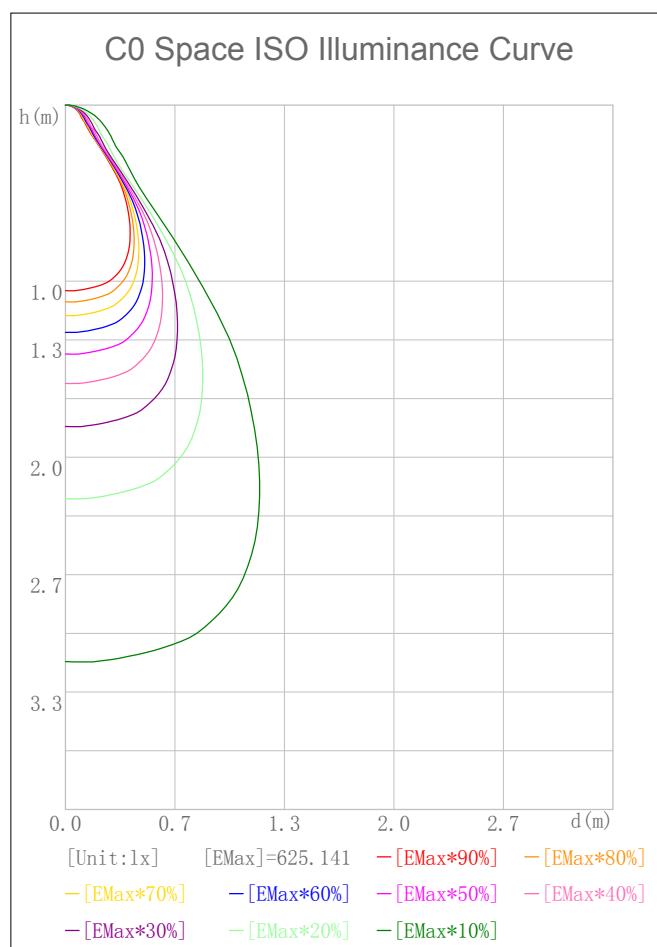
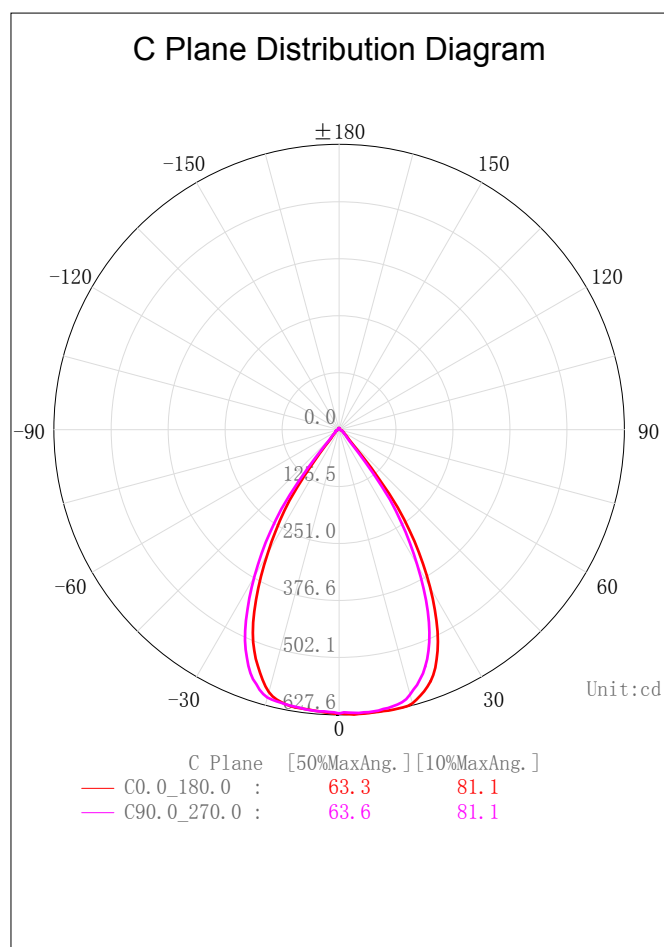


Description Information

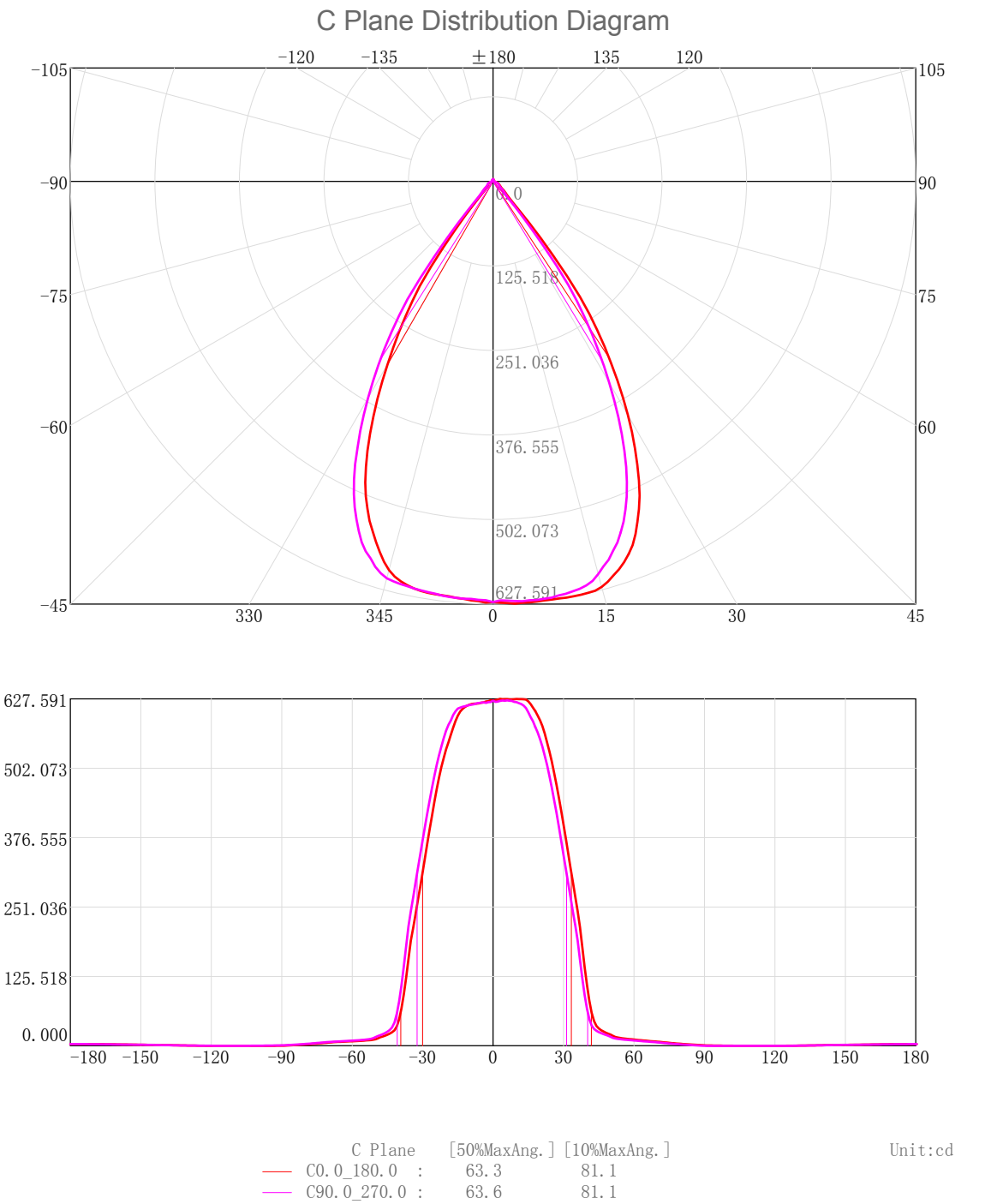
| | | | |
|---|-------------------------|--------------------|-----------------------|
| Luminary Name:SD01-08-XX-01 4000K RA90 60D | | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | | Lamp Catalog: LED | Test Date: 2021/04/28 |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | | Shld.Ang(°): | Test Machine:G0N-2000 |
| Test Lab: Quality Department | | Frequency(Hz): | Lamp CCT(K): Ra: |
| Lum.Size(W*L*H):0.050m*0.000m*0.000m | | Lum.Area(m2):0.002 | Lum.W(kg): 0.000 |
| Test System: C, γ | Test Step: C=90.0 γ=1.0 | Temp.(℃): 25 | Humidity(%): 50.0 |

| Lamp Speciality Parameter | Luminaire Speciality Parameter | |
|--|---------------------------------|---------------------------------------|
| Rated Flux(lm): 634.160 | Luminary Flux(lm): 634.157 | Field Angle(10%Imax): 81.1(°) |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 629.972lm 99.34% |
| Rated Voltage(V): | Luminary EER(lm/W): 81.837 | Up Lumens&Percent: 4.185lm 0.66% |
| Tested Power(W): 7.749 | Max. Candela(cd): 627.591 | S/MH: C0_a180=1.009 C90_270=1.008 |
| Lamps' Inside: 1 | Max Cand@Ang. (°): C=0.0 γ=3.0 | CIE Type: Semi-Direct |
| Tested Electrics(V, A, pf):240.2, 0.035, 0.911 | Beam Angle(50%Imax): 63.3(°) | ErP φuse(90°): 585.001lm |
| Lamp Size(W*L*H):0.050m*0.000m*0.000m | Left=-30.0° , Right=33.3° | IRF(%) : 204.848 |



2D Plane Light Intensity Distribution Curve

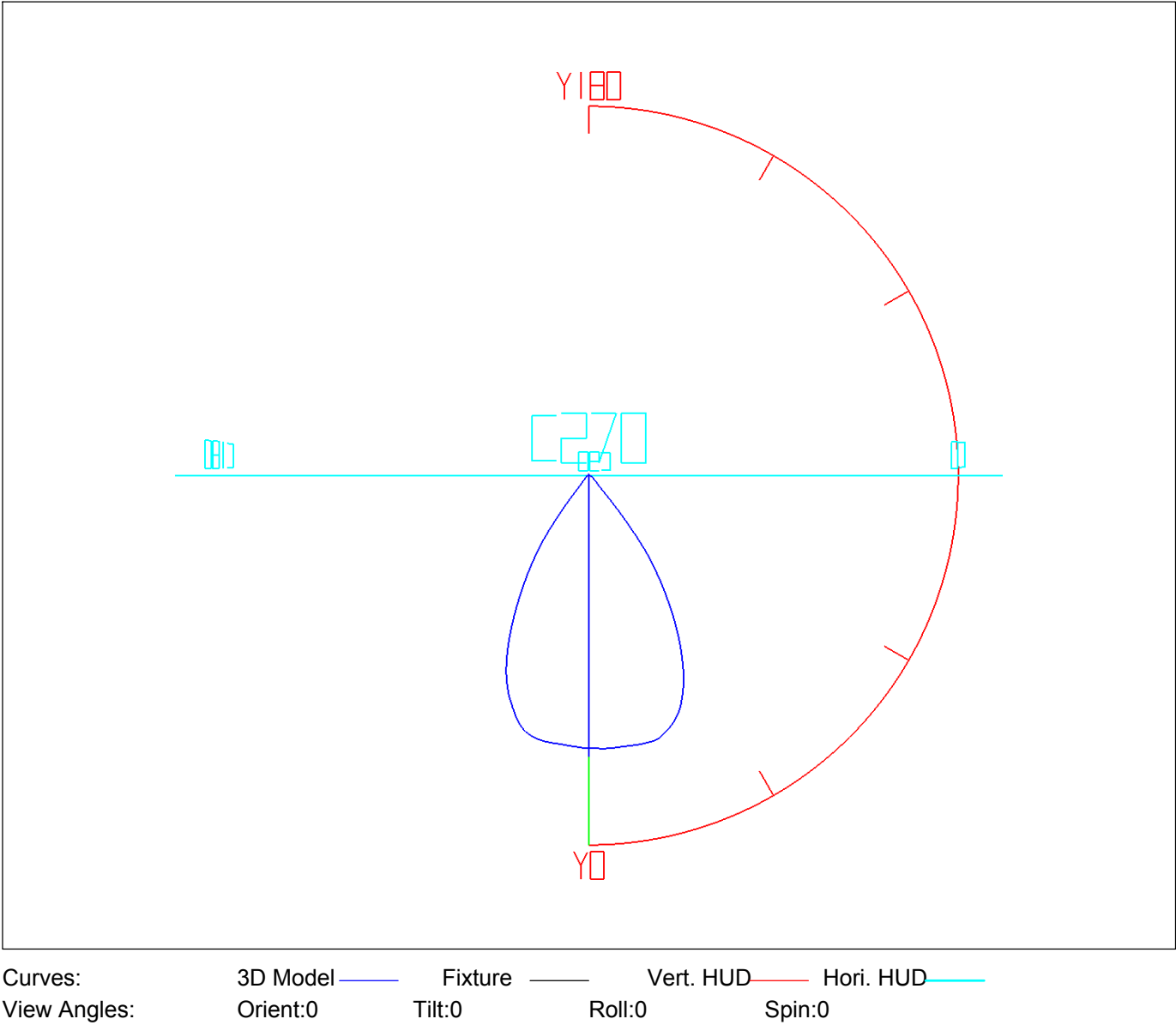
| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD01-08-XX-01 4000K RA90 60D | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2021/04/28 |



3D Light Intensity Distribution Modal

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD01-08-XX-01 4000K RA90 60D | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2021/04/28 |

3D Light Intensity Distribution Modal



Zonal Flux Tabulation

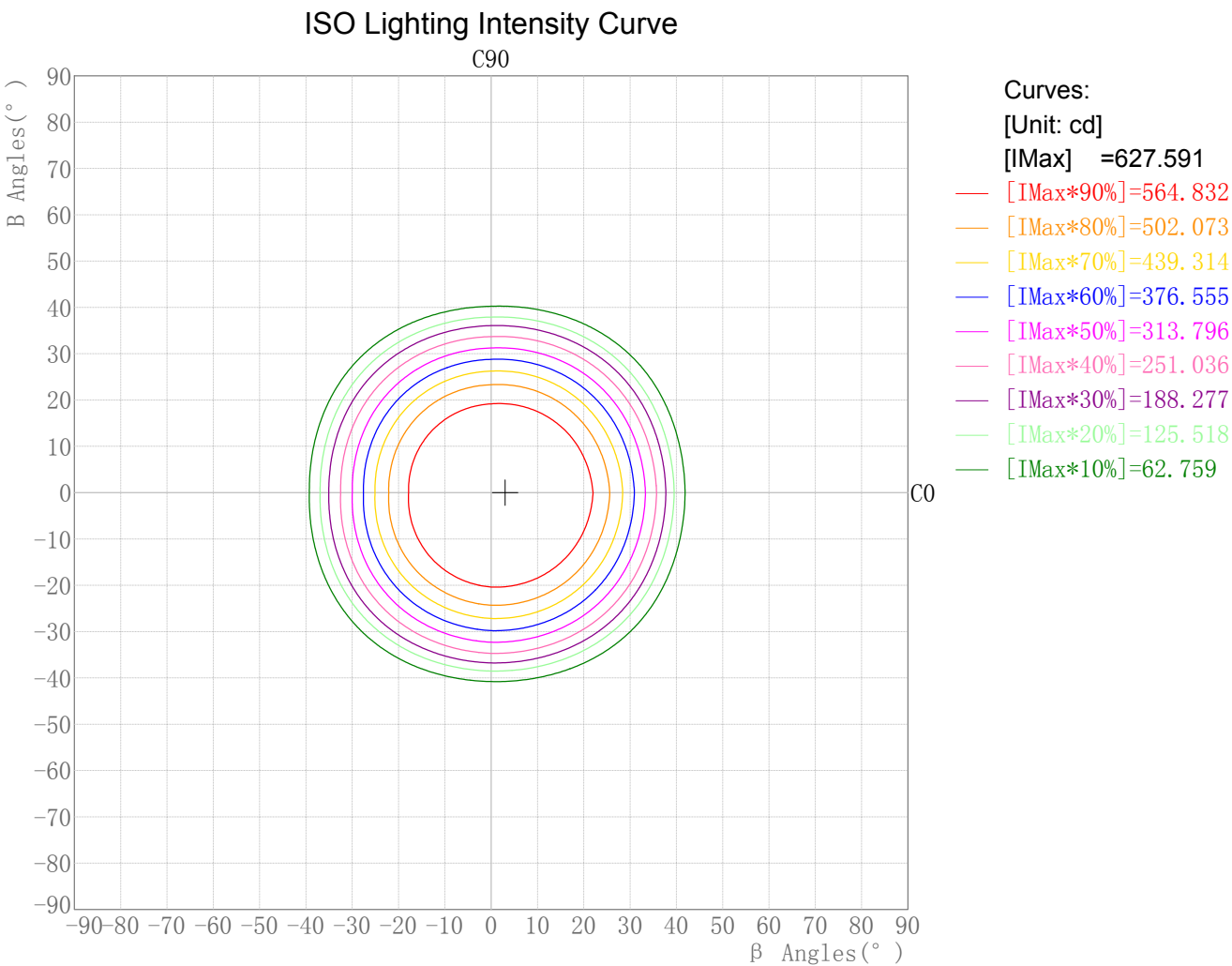
| Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|-----------|-------------------|-------------------|-----------|-----------|-----------|-------------------|-------------------|-----------|-----------|
| 0.0-1.0 | 0.60 | 0.60 | 0.09 | 0.09 | 47.0-48.0 | 1.66 | 601.49 | 0.26 | 94.85 |
| 1.0-2.0 | 1.79 | 2.39 | 0.28 | 0.38 | 48.0-49.0 | 1.54 | 603.04 | 0.24 | 95.09 |
| 2.0-3.0 | 2.98 | 5.37 | 0.47 | 0.85 | 49.0-50.0 | 1.42 | 604.46 | 0.22 | 95.32 |
| 3.0-4.0 | 4.17 | 9.54 | 0.66 | 1.51 | 50.0-51.0 | 1.29 | 605.75 | 0.20 | 95.52 |
| 4.0-5.0 | 5.36 | 14.91 | 0.85 | 2.35 | 51.0-52.0 | 1.18 | 606.94 | 0.19 | 95.71 |
| 5.0-6.0 | 6.55 | 21.45 | 1.03 | 3.38 | 52.0-53.0 | 1.12 | 608.05 | 0.18 | 95.88 |
| 6.0-7.0 | 7.73 | 29.18 | 1.22 | 4.60 | 53.0-54.0 | 1.07 | 609.13 | 0.17 | 96.05 |
| 7.0-8.0 | 8.90 | 38.09 | 1.40 | 6.01 | 54.0-55.0 | 1.04 | 610.17 | 0.16 | 96.22 |
| 8.0-9.0 | 10.07 | 48.16 | 1.59 | 7.59 | 55.0-56.0 | 1.02 | 611.19 | 0.16 | 96.38 |
| 9.0-10.0 | 11.24 | 59.40 | 1.77 | 9.37 | 56.0-57.0 | 1.00 | 612.19 | 0.16 | 96.53 |
| 10.0-11.0 | 12.39 | 71.79 | 1.95 | 11.32 | 57.0-58.0 | 0.97 | 613.16 | 0.15 | 96.69 |
| 11.0-12.0 | 13.53 | 85.32 | 2.13 | 13.45 | 58.0-59.0 | 0.95 | 614.11 | 0.15 | 96.84 |
| 12.0-13.0 | 14.65 | 99.96 | 2.31 | 15.76 | 59.0-60.0 | 0.93 | 615.04 | 0.15 | 96.98 |
| 13.0-14.0 | 15.74 | 115.70 | 2.48 | 18.25 | 60.0-61.0 | 0.91 | 615.94 | 0.14 | 97.13 |
| 14.0-15.0 | 16.77 | 132.48 | 2.64 | 20.89 | 61.0-62.0 | 0.89 | 616.83 | 0.14 | 97.27 |
| 15.0-16.0 | 17.72 | 150.20 | 2.79 | 23.68 | 62.0-63.0 | 0.87 | 617.70 | 0.14 | 97.40 |
| 16.0-17.0 | 18.60 | 168.80 | 2.93 | 26.62 | 63.0-64.0 | 0.85 | 618.55 | 0.13 | 97.54 |
| 17.0-18.0 | 19.40 | 188.20 | 3.06 | 29.68 | 64.0-65.0 | 0.83 | 619.37 | 0.13 | 97.67 |
| 18.0-19.0 | 20.13 | 208.32 | 3.17 | 32.85 | 65.0-66.0 | 0.80 | 620.17 | 0.13 | 97.79 |
| 19.0-20.0 | 20.79 | 229.11 | 3.28 | 36.13 | 66.0-67.0 | 0.78 | 620.96 | 0.12 | 97.92 |
| 20.0-21.0 | 21.34 | 250.45 | 3.36 | 39.49 | 67.0-68.0 | 0.76 | 621.71 | 0.12 | 98.04 |
| 21.0-22.0 | 21.76 | 272.21 | 3.43 | 42.92 | 68.0-69.0 | 0.73 | 622.44 | 0.12 | 98.15 |
| 22.0-23.0 | 22.05 | 294.25 | 3.48 | 46.40 | 69.0-70.0 | 0.70 | 623.15 | 0.11 | 98.26 |
| 23.0-24.0 | 22.20 | 316.45 | 3.50 | 49.90 | 70.0-71.0 | 0.67 | 623.82 | 0.11 | 98.37 |
| 24.0-25.0 | 22.20 | 338.65 | 3.50 | 53.40 | 71.0-72.0 | 0.63 | 624.45 | 0.10 | 98.47 |
| 25.0-26.0 | 22.04 | 360.68 | 3.47 | 56.88 | 72.0-73.0 | 0.59 | 625.04 | 0.09 | 98.56 |
| 26.0-27.0 | 21.71 | 382.39 | 3.42 | 60.30 | 73.0-74.0 | 0.55 | 625.60 | 0.09 | 98.65 |
| 27.0-28.0 | 21.25 | 403.65 | 3.35 | 63.65 | 74.0-75.0 | 0.52 | 626.11 | 0.08 | 98.73 |
| 28.0-29.0 | 20.69 | 424.33 | 3.26 | 66.91 | 75.0-76.0 | 0.48 | 626.59 | 0.08 | 98.81 |
| 29.0-30.0 | 19.99 | 444.32 | 3.15 | 70.06 | 76.0-77.0 | 0.44 | 627.04 | 0.07 | 98.88 |
| 30.0-31.0 | 19.19 | 463.51 | 3.03 | 73.09 | 77.0-78.0 | 0.41 | 627.44 | 0.06 | 98.94 |
| 31.0-32.0 | 18.30 | 481.81 | 2.89 | 75.98 | 78.0-79.0 | 0.37 | 627.82 | 0.06 | 99.00 |
| 32.0-33.0 | 17.33 | 499.14 | 2.73 | 78.71 | 79.0-80.0 | 0.34 | 628.16 | 0.05 | 99.05 |
| 33.0-34.0 | 16.25 | 515.39 | 2.56 | 81.27 | 80.0-81.0 | 0.31 | 628.47 | 0.05 | 99.10 |
| 34.0-35.0 | 15.08 | 530.47 | 2.38 | 83.65 | 81.0-82.0 | 0.28 | 628.74 | 0.04 | 99.15 |
| 35.0-36.0 | 13.74 | 544.22 | 2.17 | 85.82 | 82.0-83.0 | 0.25 | 628.99 | 0.04 | 99.18 |
| 36.0-37.0 | 12.07 | 556.28 | 1.90 | 87.72 | 83.0-84.0 | 0.22 | 629.21 | 0.03 | 99.22 |
| 37.0-38.0 | 10.10 | 566.38 | 1.59 | 89.31 | 84.0-85.0 | 0.19 | 629.40 | 0.03 | 99.25 |
| 38.0-39.0 | 8.09 | 574.47 | 1.28 | 90.59 | 85.0-86.0 | 0.16 | 629.56 | 0.03 | 99.27 |
| 39.0-40.0 | 6.25 | 580.72 | 0.99 | 91.57 | 86.0-87.0 | 0.14 | 629.70 | 0.02 | 99.30 |
| 40.0-41.0 | 4.71 | 585.43 | 0.74 | 92.32 | 87.0-88.0 | 0.11 | 629.81 | 0.02 | 99.31 |
| 41.0-42.0 | 3.55 | 588.98 | 0.56 | 92.88 | 88.0-89.0 | 0.09 | 629.90 | 0.01 | 99.33 |
| 42.0-43.0 | 2.78 | 591.76 | 0.44 | 93.31 | 89.0-90.0 | 0.07 | 629.97 | 0.01 | 99.34 |
| 43.0-44.0 | 2.33 | 594.09 | 0.37 | 93.68 | 90.0-91.0 | 0.06 | 630.03 | 0.01 | 99.35 |
| 44.0-45.0 | 2.07 | 596.16 | 0.33 | 94.01 | 91.0-92.0 | 0.05 | 630.08 | 0.01 | 99.36 |
| 45.0-46.0 | 1.90 | 598.06 | 0.30 | 94.31 | 92.0-93.0 | 0.04 | 630.12 | 0.01 | 99.36 |
| 46.0-47.0 | 1.77 | 599.84 | 0.28 | 94.59 | 93.0-94.0 | 0.04 | 630.16 | 0.01 | 99.37 |

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 | 0.03 | 630.19 | 0.00 | 99.37 | 141.0-142.0 | 0.09 | 631.35 | 0.01 | 99.56 |
| 95.0-96.0 | 0.03 | 630.22 | 0.00 | 99.38 | 142.0-143.0 | 0.09 | 631.44 | 0.01 | 99.57 |
| 96.0-97.0 | 0.02 | 630.24 | 0.00 | 99.38 | 143.0-144.0 | 0.09 | 631.54 | 0.01 | 99.59 |
| 97.0-98.0 | 0.02 | 630.26 | 0.00 | 99.39 | 144.0-145.0 | 0.10 | 631.63 | 0.02 | 99.60 |
| 98.0-99.0 | 0.02 | 630.28 | 0.00 | 99.39 | 145.0-146.0 | 0.10 | 631.73 | 0.02 | 99.62 |
| 99.0-100.0 | 0.02 | 630.29 | 0.00 | 99.39 | 146.0-147.0 | 0.10 | 631.83 | 0.02 | 99.63 |
| 100.0-101.0 | 0.01 | 630.31 | 0.00 | 99.39 | 147.0-148.0 | 0.10 | 631.93 | 0.02 | 99.65 |
| 101.0-102.0 | 0.01 | 630.32 | 0.00 | 99.39 | 148.0-149.0 | 0.10 | 632.03 | 0.02 | 99.66 |
| 102.0-103.0 | 0.01 | 630.33 | 0.00 | 99.40 | 149.0-150.0 | 0.10 | 632.13 | 0.02 | 99.68 |
| 103.0-104.0 | 0.01 | 630.33 | 0.00 | 99.40 | 150.0-151.0 | 0.10 | 632.23 | 0.02 | 99.70 |
| 104.0-105.0 | 0.00 | 630.33 | 0.00 | 99.40 | 151.0-152.0 | 0.10 | 632.33 | 0.02 | 99.71 |
| 105.0-106.0 | 0.00 | 630.34 | 0.00 | 99.40 | 152.0-153.0 | 0.10 | 632.43 | 0.02 | 99.73 |
| 106.0-107.0 | 0.00 | 630.34 | 0.00 | 99.40 | 153.0-154.0 | 0.10 | 632.53 | 0.02 | 99.74 |
| 107.0-108.0 | 0.00 | 630.34 | 0.00 | 99.40 | 154.0-155.0 | 0.10 | 632.63 | 0.02 | 99.76 |
| 108.0-109.0 | 0.00 | 630.34 | 0.00 | 99.40 | 155.0-156.0 | 0.10 | 632.73 | 0.02 | 99.77 |
| 109.0-110.0 | 0.00 | 630.34 | 0.00 | 99.40 | 156.0-157.0 | 0.10 | 632.83 | 0.02 | 99.79 |
| 110.0-111.0 | 0.00 | 630.34 | 0.00 | 99.40 | 157.0-158.0 | 0.10 | 632.92 | 0.02 | 99.81 |
| 111.0-112.0 | 0.00 | 630.34 | 0.00 | 99.40 | 158.0-159.0 | 0.09 | 633.02 | 0.01 | 99.82 |
| 112.0-113.0 | 0.00 | 630.34 | 0.00 | 99.40 | 159.0-160.0 | 0.09 | 633.11 | 0.01 | 99.83 |
| 113.0-114.0 | 0.00 | 630.34 | 0.00 | 99.40 | 160.0-161.0 | 0.09 | 633.20 | 0.01 | 99.85 |
| 114.0-115.0 | 0.00 | 630.34 | 0.00 | 99.40 | 161.0-162.0 | 0.09 | 633.28 | 0.01 | 99.86 |
| 115.0-116.0 | 0.00 | 630.34 | 0.00 | 99.40 | 162.0-163.0 | 0.08 | 633.37 | 0.01 | 99.88 |
| 116.0-117.0 | 0.00 | 630.34 | 0.00 | 99.40 | 163.0-164.0 | 0.08 | 633.45 | 0.01 | 99.89 |
| 117.0-118.0 | 0.00 | 630.35 | 0.00 | 99.40 | 164.0-165.0 | 0.08 | 633.53 | 0.01 | 99.90 |
| 118.0-119.0 | 0.00 | 630.35 | 0.00 | 99.40 | 165.0-166.0 | 0.07 | 633.60 | 0.01 | 99.91 |
| 119.0-120.0 | 0.00 | 630.35 | 0.00 | 99.40 | 166.0-167.0 | 0.07 | 633.67 | 0.01 | 99.92 |
| 120.0-121.0 | 0.00 | 630.36 | 0.00 | 99.40 | 167.0-168.0 | 0.07 | 633.74 | 0.01 | 99.93 |
| 121.0-122.0 | 0.01 | 630.36 | 0.00 | 99.40 | 168.0-169.0 | 0.06 | 633.80 | 0.01 | 99.94 |
| 122.0-123.0 | 0.01 | 630.37 | 0.00 | 99.40 | 169.0-170.0 | 0.06 | 633.86 | 0.01 | 99.95 |
| 123.0-124.0 | 0.01 | 630.39 | 0.00 | 99.40 | 170.0-171.0 | 0.05 | 633.92 | 0.01 | 99.96 |
| 124.0-125.0 | 0.02 | 630.40 | 0.00 | 99.41 | 171.0-172.0 | 0.05 | 633.97 | 0.01 | 99.97 |
| 125.0-126.0 | 0.02 | 630.42 | 0.00 | 99.41 | 172.0-173.0 | 0.04 | 634.01 | 0.01 | 99.98 |
| 126.0-127.0 | 0.02 | 630.45 | 0.00 | 99.41 | 173.0-174.0 | 0.04 | 634.05 | 0.01 | 99.98 |
| 127.0-128.0 | 0.03 | 630.48 | 0.00 | 99.42 | 174.0-175.0 | 0.03 | 634.08 | 0.01 | 99.99 |
| 128.0-129.0 | 0.03 | 630.51 | 0.01 | 99.42 | 175.0-176.0 | 0.03 | 634.11 | 0.00 | 99.99 |
| 129.0-130.0 | 0.04 | 630.55 | 0.01 | 99.43 | 176.0-177.0 | 0.02 | 634.13 | 0.00 | 100.00 |
| 130.0-131.0 | 0.04 | 630.59 | 0.01 | 99.44 | 177.0-178.0 | 0.02 | 634.14 | 0.00 | 100.00 |
| 131.0-132.0 | 0.05 | 630.64 | 0.01 | 99.44 | 178.0-179.0 | 0.01 | 634.15 | 0.00 | 100.00 |
| 132.0-133.0 | 0.05 | 630.69 | 0.01 | 99.45 | 179.0-180.0 | 0.00 | 634.16 | 0.00 | 100.00 |
| 133.0-134.0 | 0.06 | 630.75 | 0.01 | 99.46 | | | | | |
| 134.0-135.0 | 0.06 | 630.81 | 0.01 | 99.47 | | | | | |
| 135.0-136.0 | 0.07 | 630.88 | 0.01 | 99.48 | | | | | |
| 136.0-137.0 | 0.07 | 630.95 | 0.01 | 99.49 | | | | | |
| 137.0-138.0 | 0.07 | 631.02 | 0.01 | 99.50 | | | | | |
| 138.0-139.0 | 0.08 | 631.10 | 0.01 | 99.52 | | | | | |
| 139.0-140.0 | 0.08 | 631.18 | 0.01 | 99.53 | | | | | |
| 140.0-141.0 | 0.08 | 631.26 | 0.01 | 99.54 | | | | | |

Rectangle ISO Lighting Intensity Diagram

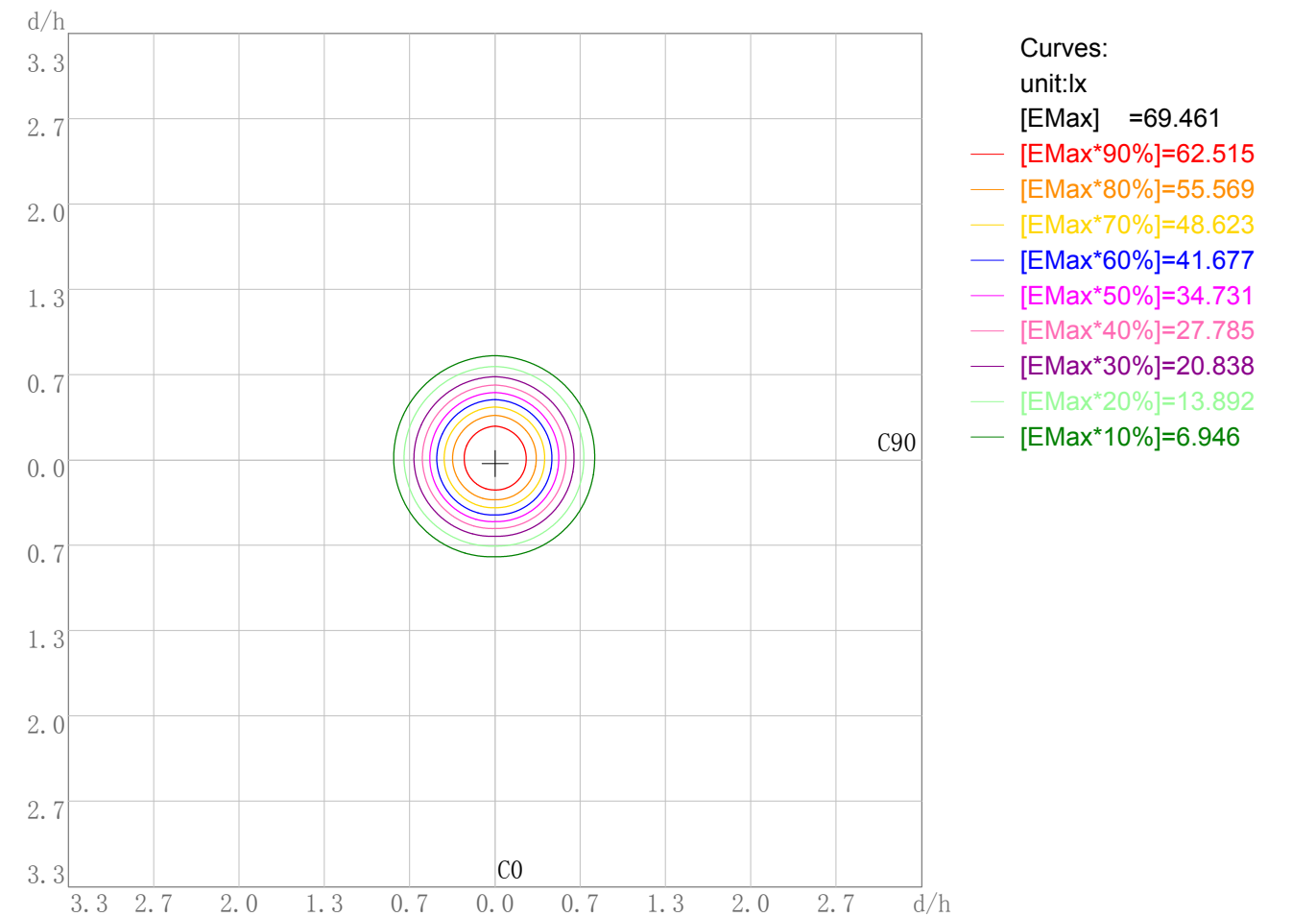
| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD01-08-XX-01 4000K RA90 60D | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2021/04/28 |



Plane ISO-Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD01-08-XX-01 4000K RA90 60D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2021/04/28 |

Plane ISO-Illuminance Curve



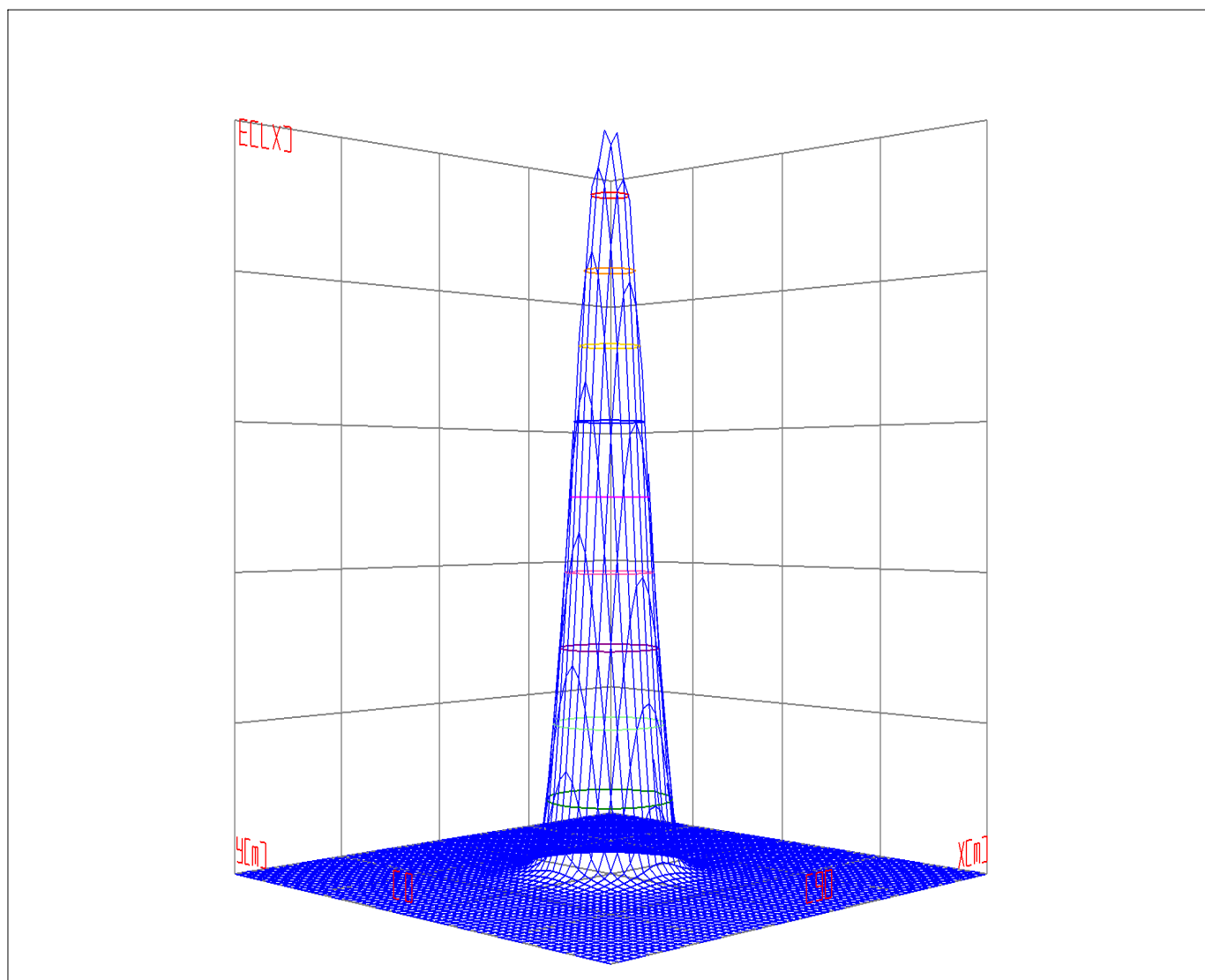
IES Indoor Report

Photometric Filename:SD01-08-XX-01 4000K RA90 60D.IES

3D Plane ISO Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD01-08-XX-01 4000K RA90 60D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2021/04/28 |

3D Plane Illuminance Modal

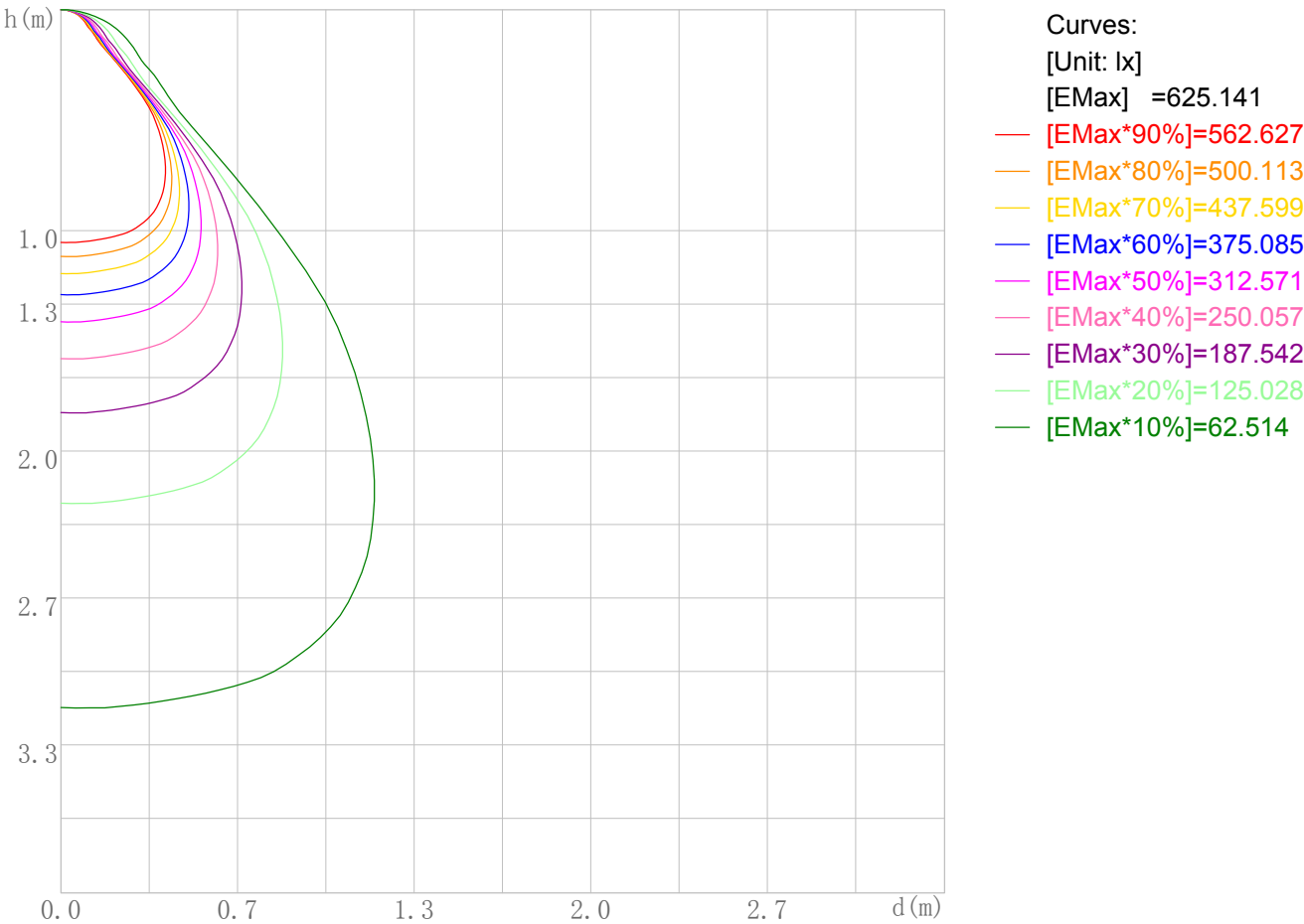


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD01-08-XX-01 4000K RA90 60D | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2021/04/28 |

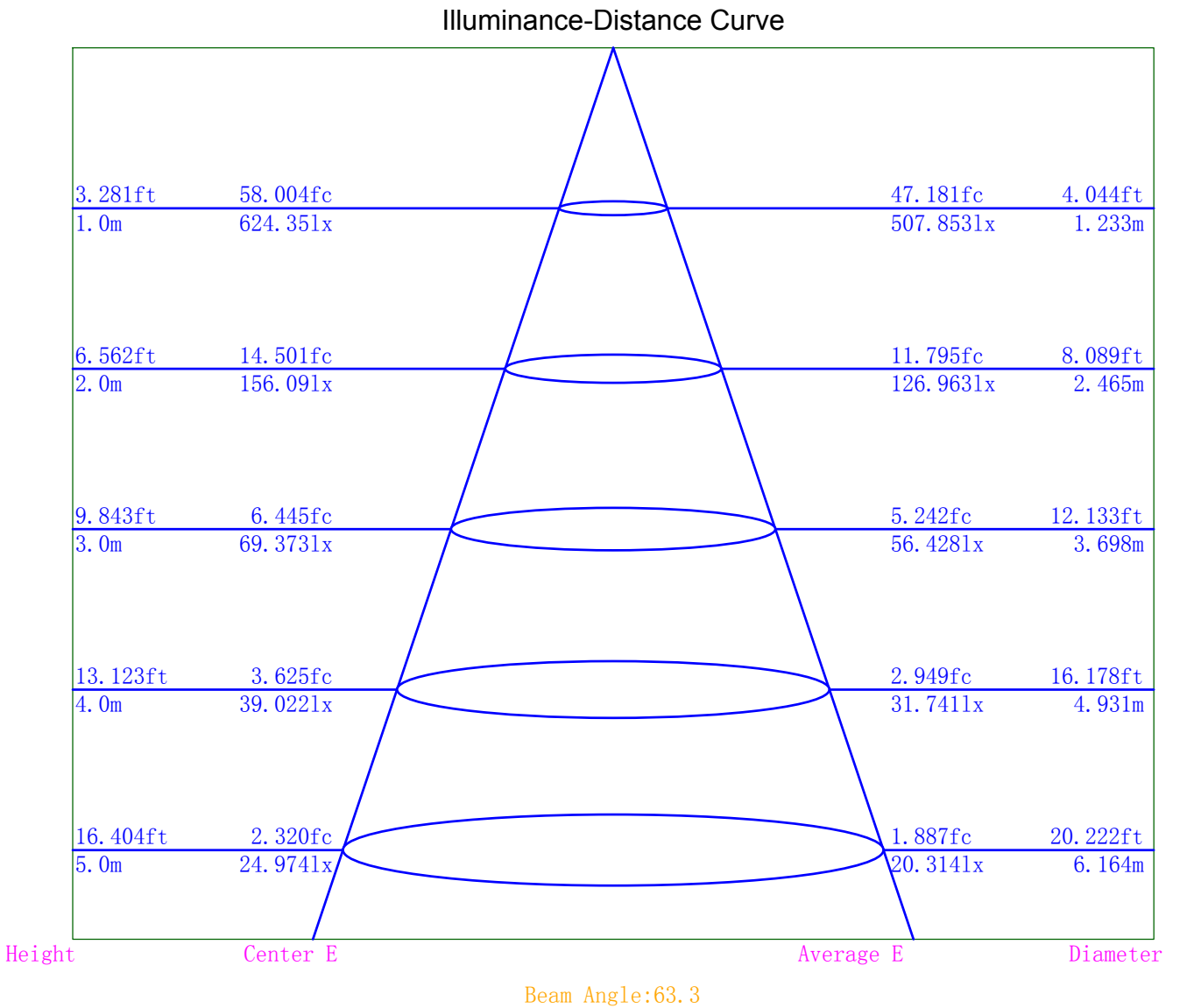
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:625.14lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:627.591cd,0deg

Illuminance-Distance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD01-08-XX-01 4000K RA90 60D | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2021/04/28 |



Indoor Luminance Limiting Curves

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD01-08-XX-01 4000K RA90 60D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2021/04/28 |

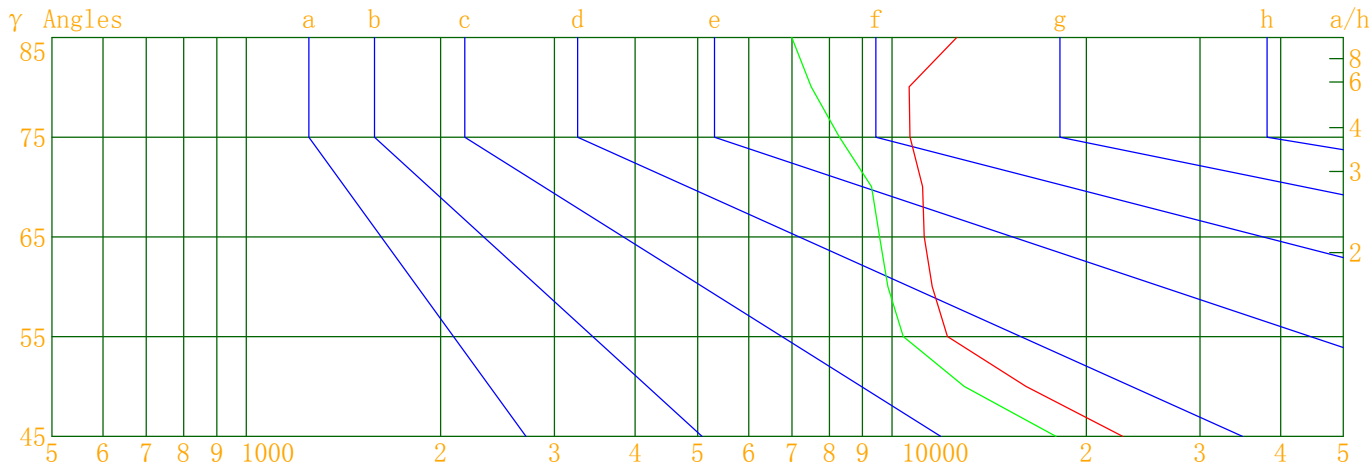
Glare Grade Table

| 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 | 22771 | 16132 | 12182 | 11545 | 11218 | 11152 | 10663 | 10632 | 12593 |
| C90 | 17949 | 12936 | 10410 | 9857 | 9564 | 9295 | 8286 | 7497 | 6995 |

Luminance Limiting Curve



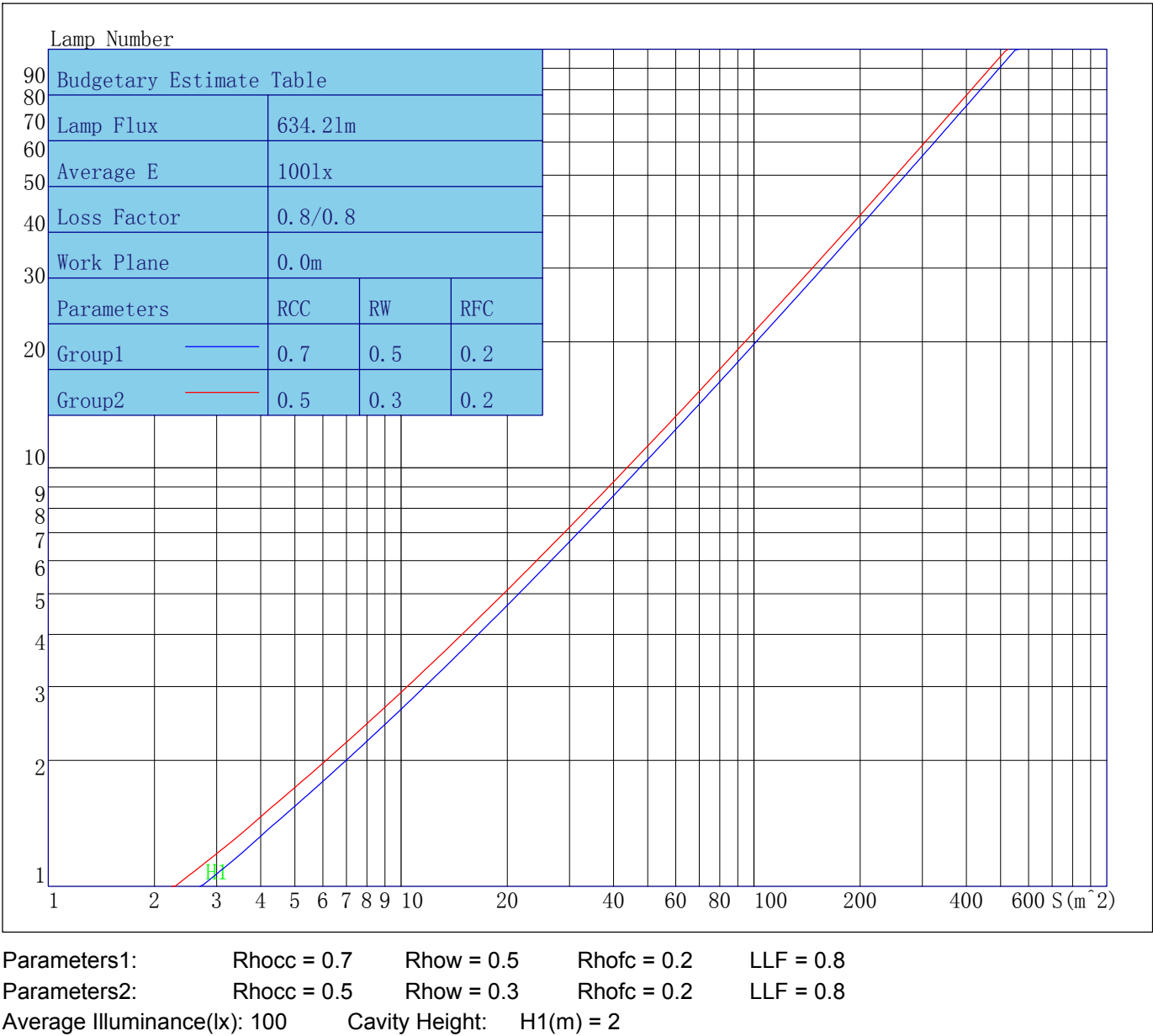
Luminous Size: Length(m)=0.000 Width(m)=-0.050 Height(m)=0.000 Area(m^2)=0.001963

Luminous Type: Without Luminous Side

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

Indoor Budgetary Estimate Table

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD01-08-XX-01 4000K RA90 60D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2021/04/28 |



Indoor Coefficient of Utilization Table

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD01-08-XX-01 4000K RA90 60D | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2021/04/28 |

| 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 101 | 101 | 101 | 99 |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 |
| 3 | 102 | 95 | 90 | 86 | 99 | 93 | 89 | 85 | 91 | 87 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 79 |
| 4 | 96 | 88 | 83 | 78 | 94 | 87 | 82 | 78 | 85 | 81 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 73 |
| 5 | 91 | 83 | 77 | 72 | 90 | 82 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 71 | 76 | 73 | 70 | 68 |
| 6 | 87 | 78 | 71 | 67 | 85 | 77 | 71 | 67 | 75 | 70 | 66 | 74 | 69 | 66 | 72 | 68 | 65 | 64 |
| 7 | 82 | 73 | 67 | 62 | 81 | 72 | 66 | 62 | 71 | 66 | 62 | 69 | 65 | 61 | 68 | 64 | 61 | 60 |
| 8 | 78 | 69 | 62 | 58 | 77 | 68 | 62 | 58 | 67 | 62 | 58 | 66 | 61 | 57 | 65 | 60 | 57 | 56 |
| 9 | 74 | 65 | 59 | 55 | 73 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 52 |
| 10 | 71 | 61 | 55 | 51 | 70 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 58 | 54 | 51 | 49 |

Unified Glare Rating Table

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD01-08-XX-01 4000K RA90 60D | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2021/04/28 |

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 | 21.9 | 22.9 | 22.2 | 23.2 | 23.5 | 20.7 | 21.7 | 21.0 | 22.0 | 22.3 |
| | 21.9 | 22.8 | 22.3 | 23.2 | 23.5 | 20.7 | 21.6 | 21.1 | 22.0 | 22.4 |
| | 22.0 | 22.8 | 22.4 | 23.2 | 23.6 | 20.8 | 21.6 | 21.2 | 22.0 | 22.4 |
| | 22.0 | 22.8 | 22.4 | 23.2 | 23.6 | 20.8 | 21.6 | 21.2 | 21.9 | 22.4 |
| | 22.0 | 22.8 | 22.5 | 23.2 | 23.6 | 20.8 | 21.5 | 21.2 | 21.9 | 22.3 |
| | 22.0 | 22.7 | 22.5 | 23.1 | 23.6 | 20.8 | 21.5 | 21.2 | 21.8 | 22.3 |
| X=4H Y=2H | 21.7 | 22.5 | 22.1 | 22.9 | 23.3 | 20.5 | 21.3 | 20.9 | 21.7 | 22.1 |
| | 21.8 | 22.5 | 22.2 | 22.9 | 23.3 | 20.7 | 21.4 | 21.1 | 21.8 | 22.2 |
| | 21.9 | 22.5 | 22.4 | 23.0 | 23.4 | 20.8 | 21.4 | 21.2 | 21.8 | 22.3 |
| | 22.1 | 22.6 | 22.5 | 23.1 | 23.5 | 20.8 | 21.4 | 21.3 | 21.8 | 22.3 |
| | 22.1 | 22.6 | 22.6 | 23.1 | 23.6 | 20.9 | 21.4 | 21.3 | 21.8 | 22.3 |
| | 22.2 | 22.6 | 22.7 | 23.1 | 23.6 | 20.9 | 21.3 | 21.4 | 21.8 | 22.3 |
| X=8H Y=4H | 21.9 | 22.4 | 22.3 | 22.8 | 23.3 | 20.7 | 21.2 | 21.2 | 21.7 | 22.2 |
| | 22.1 | 22.5 | 22.6 | 23.0 | 23.5 | 20.9 | 21.3 | 21.4 | 21.8 | 22.3 |
| | 22.2 | 22.5 | 22.7 | 23.1 | 23.6 | 20.9 | 21.3 | 21.4 | 21.8 | 22.3 |
| | 22.3 | 22.6 | 22.8 | 23.1 | 23.7 | 21.0 | 21.3 | 21.5 | 21.8 | 22.4 |
| X=12H Y=4H | 21.8 | 22.3 | 22.3 | 22.8 | 23.3 | 20.7 | 21.1 | 21.2 | 21.6 | 22.1 |
| | 22.0 | 22.4 | 22.6 | 22.9 | 23.5 | 20.8 | 21.2 | 21.4 | 21.7 | 22.2 |
| | 22.2 | 22.5 | 22.7 | 23.0 | 23.6 | 20.9 | 21.2 | 21.5 | 21.8 | 22.3 |
| Variations with the objerver position at spacings | | | | | | | | | | |
| S=1.0H | 0.3/−0.3 | | | | | 0.5/−0.5 | | | | |
| S=1.5H | 0.6/−0.7 | | | | | 0.9/−0.9 | | | | |
| S=2.0H | 0.7/−0.9 | | | | | 1.0/−1.3 | | | | |
| Reduced UGR Table: | | | | | | | | | | |
| Nordic Standard Table: | BK0 | | | | | BK0 | | | | |
| Correction Value | 0.8 | | | | | 0.7 | | | | |

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 | 624.35 | 624.35 | 624.35 | 624.35 |
| γ 1.0 | 625.43 | 622.05 | 625.18 | 621.85 |
| γ 2.0 | 626.16 | 622.71 | 623.29 | 621.55 |
| γ 3.0 | 627.59 | 623.85 | 622.77 | 620.52 |
| γ 4.0 | 626.93 | 624.66 | 621.22 | 621.06 |
| γ 5.0 | 627.05 | 624.08 | 620.52 | 620.64 |
| γ 6.0 | 626.98 | 624.77 | 619.47 | 620.22 |
| γ 7.0 | 626.53 | 624.17 | 618.93 | 619.36 |
| γ 8.0 | 626.70 | 623.93 | 618.80 | 618.03 |
| γ 9.0 | 626.79 | 622.12 | 618.34 | 617.22 |
| γ 10.0 | 627.28 | 621.57 | 617.27 | 616.33 |
| γ 11.0 | 627.21 | 619.84 | 615.40 | 615.55 |
| γ 12.0 | 627.21 | 618.21 | 612.70 | 614.12 |
| γ 13.0 | 626.83 | 615.49 | 609.20 | 613.16 |
| γ 14.0 | 626.28 | 611.06 | 604.43 | 611.72 |
| γ 15.0 | 623.17 | 603.33 | 597.16 | 609.91 |
| γ 16.0 | 618.05 | 594.51 | 587.38 | 604.94 |
| γ 17.0 | 611.64 | 587.24 | 575.44 | 598.23 |
| γ 18.0 | 605.40 | 576.70 | 562.48 | 588.49 |
| γ 19.0 | 597.57 | 566.97 | 549.20 | 580.68 |
| γ 20.0 | 588.68 | 554.30 | 536.16 | 569.91 |
| γ 21.0 | 578.17 | 540.95 | 520.54 | 556.32 |
| γ 22.0 | 564.76 | 524.71 | 504.27 | 541.15 |
| γ 23.0 | 548.78 | 508.07 | 485.31 | 525.76 |
| γ 24.0 | 532.57 | 488.29 | 464.04 | 508.07 |
| γ 25.0 | 514.69 | 467.62 | 441.20 | 488.18 |
| γ 26.0 | 494.01 | 444.90 | 416.50 | 466.98 |
| γ 27.0 | 471.72 | 421.17 | 390.89 | 443.18 |
| γ 28.0 | 448.98 | 396.38 | 365.53 | 420.16 |
| γ 29.0 | 425.14 | 370.92 | 339.44 | 396.09 |
| γ 30.0 | 400.01 | 344.93 | 313.22 | 371.43 |
| γ 31.0 | 374.79 | 319.76 | 287.72 | 346.24 |
| γ 32.0 | 348.23 | 293.98 | 263.58 | 321.17 |
| γ 33.0 | 321.85 | 269.08 | 238.49 | 296.06 |
| γ 34.0 | 296.56 | 242.87 | 214.04 | 269.37 |
| γ 35.0 | 269.24 | 217.44 | 189.97 | 242.98 |
| γ 36.0 | 243.70 | 190.46 | 156.84 | 216.10 |
| γ 37.0 | 214.50 | 155.55 | 123.11 | 179.77 |
| γ 38.0 | 178.54 | 122.17 | 92.91 | 143.30 |
| γ 39.0 | 142.05 | 91.66 | 67.84 | 109.31 |
| γ 40.0 | 110.11 | 67.18 | 48.20 | 80.30 |
| γ 41.0 | 81.85 | 48.60 | 35.35 | 57.98 |
| γ 42.0 | 59.88 | 36.77 | 28.14 | 42.15 |
| γ 43.0 | 44.71 | 30.55 | 24.59 | 33.34 |
| γ 44.0 | 36.01 | 27.19 | 21.97 | 28.46 |
| γ 45.0 | 31.61 | 24.92 | 20.00 | 25.46 |
| γ 46.0 | 28.40 | 22.97 | 18.33 | 23.03 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|-------|-------|--------|--------|
| γ 47.0 | 26.05 | 21.36 | 16.93 | 21.12 |
| γ 48.0 | 23.83 | 19.78 | 15.54 | 19.31 |
| γ 49.0 | 22.15 | 18.30 | 13.76 | 17.77 |
| γ 50.0 | 20.36 | 16.33 | 12.00 | 15.83 |
| γ 51.0 | 18.20 | 14.48 | 11.12 | 13.79 |
| γ 52.0 | 16.21 | 13.44 | 10.53 | 12.65 |
| γ 53.0 | 15.11 | 12.70 | 10.11 | 11.91 |
| γ 54.0 | 14.33 | 12.15 | 9.81 | 11.35 |
| γ 55.0 | 13.72 | 11.72 | 9.50 | 10.96 |
| γ 56.0 | 13.22 | 11.27 | 9.23 | 10.56 |
| γ 57.0 | 12.73 | 10.89 | 8.97 | 10.24 |
| γ 58.0 | 12.27 | 10.45 | 8.72 | 9.92 |
| γ 59.0 | 11.80 | 10.05 | 8.49 | 9.62 |
| γ 60.0 | 11.33 | 9.68 | 8.29 | 9.34 |
| γ 61.0 | 10.90 | 9.32 | 8.09 | 9.11 |
| γ 62.0 | 10.50 | 8.97 | 7.92 | 8.89 |
| γ 63.0 | 10.09 | 8.62 | 7.71 | 8.64 |
| γ 64.0 | 9.70 | 8.26 | 7.51 | 8.44 |
| γ 65.0 | 9.31 | 7.94 | 7.32 | 8.22 |
| γ 66.0 | 8.93 | 7.61 | 7.10 | 8.01 |
| γ 67.0 | 8.56 | 7.28 | 6.86 | 7.77 |
| γ 68.0 | 8.20 | 6.94 | 6.60 | 7.54 |
| γ 69.0 | 7.86 | 6.61 | 6.31 | 7.27 |
| γ 70.0 | 7.49 | 6.24 | 5.96 | 6.98 |
| γ 71.0 | 7.13 | 5.84 | 5.55 | 6.63 |
| γ 72.0 | 6.72 | 5.40 | 5.19 | 6.24 |
| γ 73.0 | 6.26 | 4.99 | 4.79 | 5.85 |
| γ 74.0 | 5.84 | 4.60 | 4.41 | 5.47 |
| γ 75.0 | 5.42 | 4.21 | 4.05 | 5.09 |
| γ 76.0 | 5.05 | 3.86 | 3.70 | 4.72 |
| γ 77.0 | 4.65 | 3.50 | 3.37 | 4.36 |
| γ 78.0 | 4.30 | 3.18 | 3.06 | 4.02 |
| γ 79.0 | 3.95 | 2.86 | 2.74 | 3.68 |
| γ 80.0 | 3.63 | 2.56 | 2.44 | 3.38 |
| γ 81.0 | 3.31 | 2.25 | 2.16 | 3.07 |
| γ 82.0 | 3.01 | 1.99 | 1.88 | 2.79 |
| γ 83.0 | 2.71 | 1.71 | 1.63 | 2.49 |
| γ 84.0 | 2.43 | 1.44 | 1.37 | 2.23 |
| γ 85.0 | 2.15 | 1.20 | 1.14 | 1.97 |
| γ 86.0 | 1.90 | 0.96 | 0.91 | 1.72 |
| γ 87.0 | 1.65 | 0.73 | 0.69 | 1.50 |
| γ 88.0 | 1.41 | 0.51 | 0.47 | 1.28 |
| γ 89.0 | 1.18 | 0.30 | 0.31 | 1.05 |
| γ 90.0 | 0.97 | 0.16 | 0.26 | 0.89 |
| γ 91.0 | 0.81 | 0.10 | 0.20 | 0.81 |
| γ 92.0 | 0.73 | 0.05 | 0.15 | 0.73 |
| γ 93.0 | 0.65 | 0.00 | 0.10 | 0.66 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 94.0 | 0.58 | 0.00 | 0.05 | 0.60 |
| γ 95.0 | 0.52 | 0.00 | 0.01 | 0.54 |
| γ 96.0 | 0.46 | 0.00 | 0.00 | 0.48 |
| γ 97.0 | 0.41 | 0.00 | 0.00 | 0.41 |
| γ 98.0 | 0.35 | 0.00 | 0.00 | 0.37 |
| γ 99.0 | 0.30 | 0.00 | 0.00 | 0.32 |
| γ 100.0 | 0.24 | 0.00 | 0.00 | 0.28 |
| γ 101.0 | 0.19 | 0.00 | 0.00 | 0.23 |
| γ 102.0 | 0.15 | 0.00 | 0.00 | 0.19 |
| γ 103.0 | 0.10 | 0.00 | 0.00 | 0.15 |
| γ 104.0 | 0.06 | 0.00 | 0.00 | 0.12 |
| γ 105.0 | 0.03 | 0.00 | 0.00 | 0.09 |
| γ 106.0 | 0.00 | 0.00 | 0.00 | 0.07 |
| γ 107.0 | 0.00 | 0.00 | 0.00 | 0.04 |
| γ 108.0 | 0.00 | 0.00 | 0.00 | 0.03 |
| γ 109.0 | 0.00 | 0.00 | 0.00 | 0.02 |
| γ 110.0 | 0.00 | 0.00 | 0.00 | 0.01 |
| γ 111.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 112.0 | 0.00 | 0.00 | 0.00 | 0.01 |
| γ 113.0 | 0.00 | 0.00 | 0.00 | 0.01 |
| γ 114.0 | 0.00 | 0.00 | 0.00 | 0.02 |
| γ 115.0 | 0.00 | 0.00 | 0.00 | 0.03 |
| γ 116.0 | 0.00 | 0.00 | 0.00 | 0.04 |
| γ 117.0 | 0.00 | 0.00 | 0.00 | 0.06 |
| γ 118.0 | 0.00 | 0.00 | 0.00 | 0.09 |
| γ 119.0 | 0.00 | 0.00 | 0.00 | 0.12 |
| γ 120.0 | 0.00 | 0.00 | 0.02 | 0.14 |
| γ 121.0 | 0.00 | 0.00 | 0.06 | 0.18 |
| γ 122.0 | 0.03 | 0.00 | 0.11 | 0.21 |
| γ 123.0 | 0.08 | 0.00 | 0.17 | 0.26 |
| γ 124.0 | 0.11 | 0.00 | 0.22 | 0.30 |
| γ 125.0 | 0.15 | 0.00 | 0.28 | 0.35 |
| γ 126.0 | 0.20 | 0.06 | 0.34 | 0.40 |
| γ 127.0 | 0.25 | 0.12 | 0.40 | 0.45 |
| γ 128.0 | 0.31 | 0.17 | 0.47 | 0.50 |
| γ 129.0 | 0.35 | 0.24 | 0.54 | 0.57 |
| γ 130.0 | 0.41 | 0.30 | 0.62 | 0.62 |
| γ 131.0 | 0.47 | 0.37 | 0.68 | 0.68 |
| γ 132.0 | 0.53 | 0.44 | 0.75 | 0.75 |
| γ 133.0 | 0.59 | 0.50 | 0.83 | 0.80 |
| γ 134.0 | 0.66 | 0.57 | 0.89 | 0.87 |
| γ 135.0 | 0.73 | 0.64 | 0.97 | 0.94 |
| γ 136.0 | 0.79 | 0.71 | 1.05 | 1.00 |
| γ 137.0 | 0.86 | 0.79 | 1.13 | 1.06 |
| γ 138.0 | 0.94 | 0.87 | 1.21 | 1.13 |
| γ 139.0 | 1.00 | 0.93 | 1.28 | 1.20 |
| γ 140.0 | 1.07 | 1.02 | 1.36 | 1.28 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 141.0 | 1.14 | 1.09 | 1.43 | 1.34 |
| γ 142.0 | 1.22 | 1.17 | 1.51 | 1.42 |
| γ 143.0 | 1.29 | 1.24 | 1.58 | 1.48 |
| γ 144.0 | 1.36 | 1.31 | 1.65 | 1.55 |
| γ 145.0 | 1.43 | 1.38 | 1.73 | 1.61 |
| γ 146.0 | 1.50 | 1.45 | 1.80 | 1.68 |
| γ 147.0 | 1.56 | 1.51 | 1.86 | 1.75 |
| γ 148.0 | 1.63 | 1.58 | 1.91 | 1.81 |
| γ 149.0 | 1.70 | 1.64 | 1.97 | 1.86 |
| γ 150.0 | 1.76 | 1.70 | 2.03 | 1.92 |
| γ 151.0 | 1.82 | 1.76 | 2.08 | 1.97 |
| γ 152.0 | 1.87 | 1.82 | 2.14 | 2.03 |
| γ 153.0 | 1.92 | 1.86 | 2.19 | 2.08 |
| γ 154.0 | 1.99 | 1.92 | 2.24 | 2.13 |
| γ 155.0 | 2.03 | 1.98 | 2.30 | 2.19 |
| γ 156.0 | 2.10 | 2.05 | 2.36 | 2.24 |
| γ 157.0 | 2.16 | 2.11 | 2.41 | 2.29 |
| γ 158.0 | 2.22 | 2.16 | 2.46 | 2.35 |
| γ 159.0 | 2.28 | 2.22 | 2.51 | 2.40 |
| γ 160.0 | 2.33 | 2.28 | 2.58 | 2.46 |
| γ 161.0 | 2.39 | 2.34 | 2.62 | 2.50 |
| γ 162.0 | 2.44 | 2.40 | 2.68 | 2.57 |
| γ 163.0 | 2.50 | 2.45 | 2.74 | 2.63 |
| γ 164.0 | 2.57 | 2.52 | 2.78 | 2.67 |
| γ 165.0 | 2.64 | 2.57 | 2.84 | 2.72 |
| γ 166.0 | 2.70 | 2.62 | 2.89 | 2.78 |
| γ 167.0 | 2.75 | 2.70 | 2.93 | 2.84 |
| γ 168.0 | 2.80 | 2.75 | 2.98 | 2.88 |
| γ 169.0 | 2.87 | 2.79 | 3.03 | 2.93 |
| γ 170.0 | 2.91 | 2.85 | 3.07 | 2.96 |
| γ 171.0 | 2.96 | 2.90 | 3.11 | 3.01 |
| γ 172.0 | 3.02 | 2.94 | 3.15 | 3.05 |
| γ 173.0 | 3.07 | 2.99 | 3.19 | 3.10 |
| γ 174.0 | 3.10 | 3.03 | 3.21 | 3.13 |
| γ 175.0 | 3.13 | 3.08 | 3.23 | 3.16 |
| γ 176.0 | 3.18 | 3.10 | 3.26 | 3.19 |
| γ 177.0 | 3.21 | 3.13 | 3.27 | 3.22 |
| γ 178.0 | 3.24 | 3.16 | 3.28 | 3.23 |
| γ 179.0 | 3.25 | 3.17 | 3.29 | 3.23 |
| γ 180.0 | 3.26 | 3.26 | 3.26 | 3.26 |