

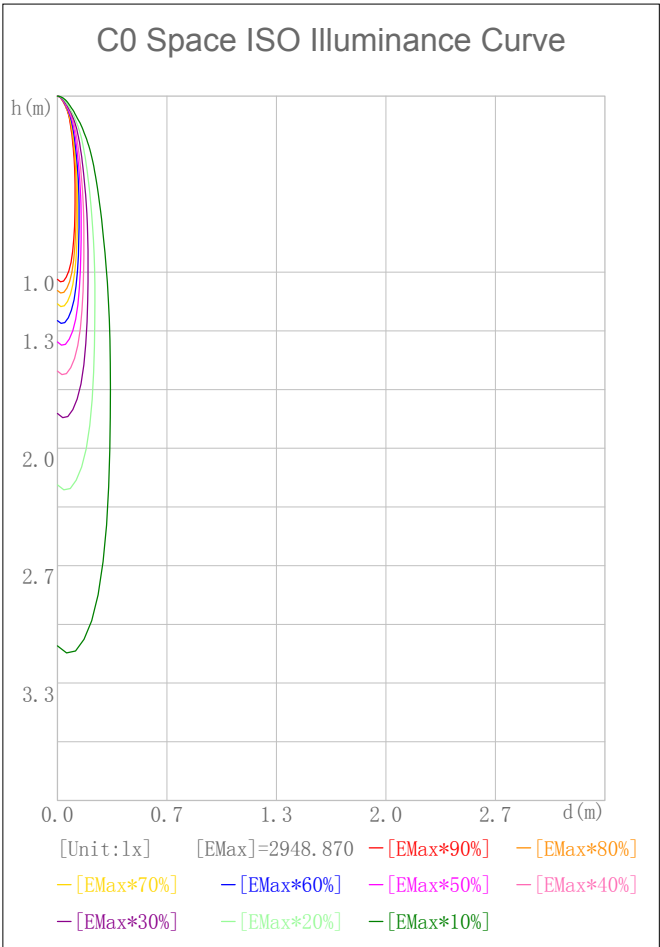
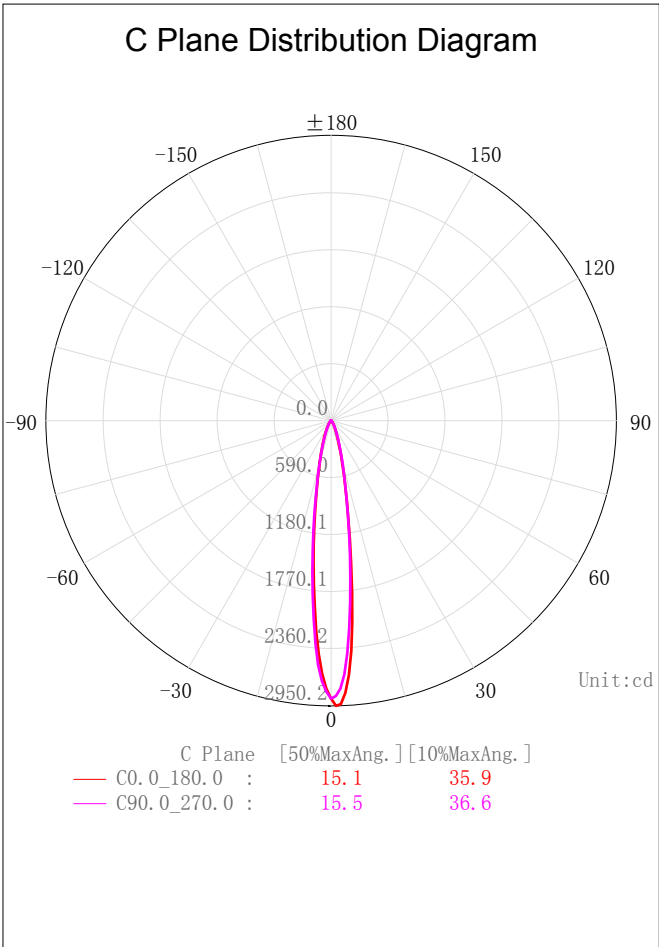
Indoor Luminaire Photometric Data

Description Information

| | | | |
|---|-------------------------|----------------------|-----------------------|
| Luminary Name: SD06-06-XX-01 3000K RA90 15D | | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | | Lamp Catalog: LED | Test Date: 2021/04/16 |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | | Shld.Ang(°): | Test Machine:GON-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. (°C): 25 | Humidity(%): 50.0 |

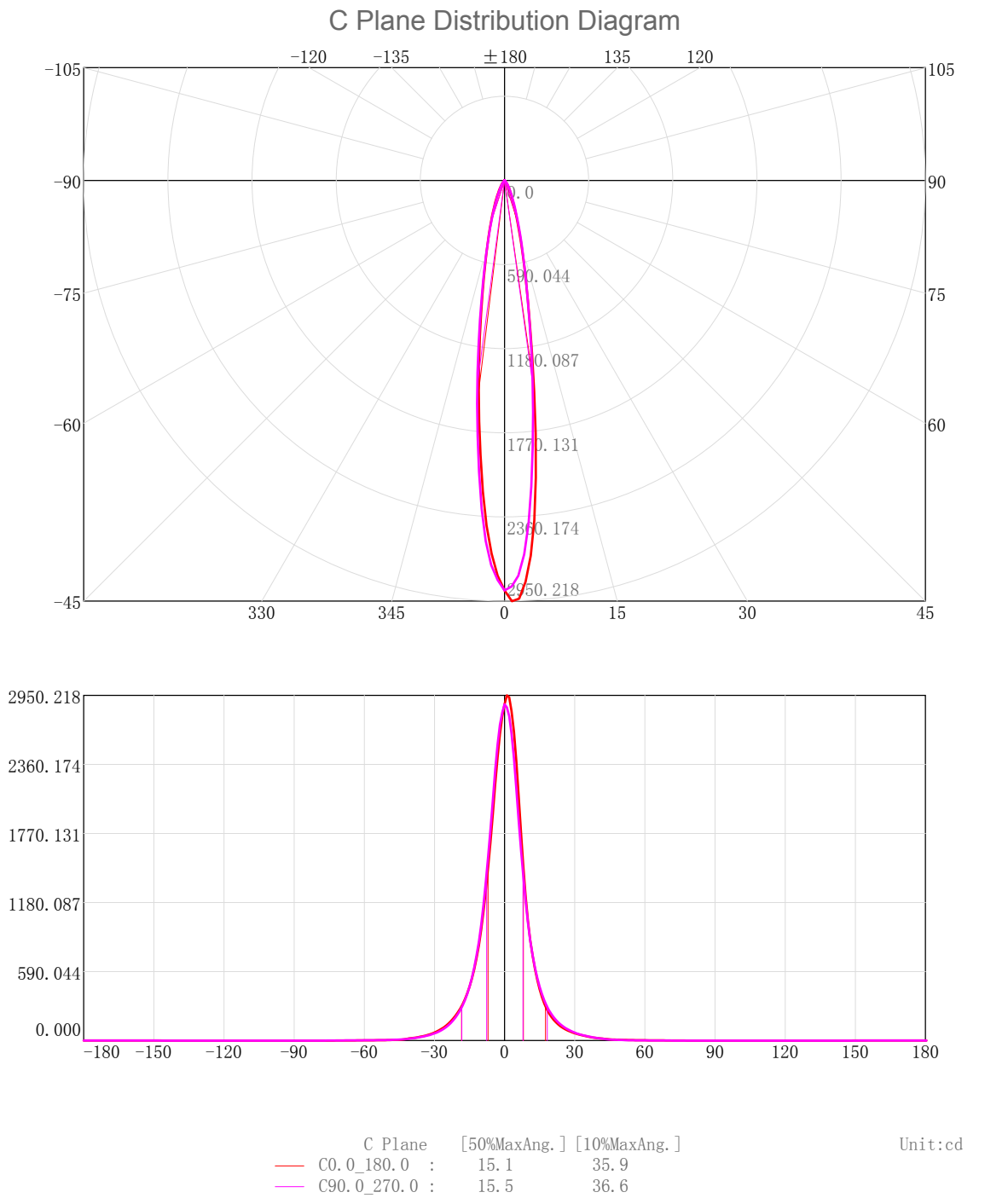
Character Parameter

| Lamp Speciality Parameter | | Luminaire Speciality Parameter | |
|---|--------------------------------|---------------------------------------|--|
| Rated Flux(lm): 391.860 | Luminary Flux(lm): 391.864 | Field Angle(10%Imax): 35.9(°) | |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 390.826lm 99.74% | |
| Rated Voltage(V): | Luminary EER(lm/W): 69.406 | Up Lumens&Percent: 1.038lm 0.26% | |
| Tested Power(W): 5.646 | Max. Candela(cd): 2950.218 | S/MH: C0_a180=0.266 C90_270=0.267 | |
| Lamps' Inside: 1 | Max Cand@Ang. (°): C=0.0 γ=1.0 | CIE Type: Semi-Direct | |
| Tested Electrics (V, A, pf):240.0, 0.029, 0.787 | Beam Angle(50%Imax): 15.1(°) | ErP Φ use(90°): 382.156lm | |
| Lamp Size (W*L*H):0.050m*0.000m*0.000m | Left=-7.1°, Right=8.1° | IRF(%): 1576.131 | |



2D Plane Light Intensity Distribution Curve

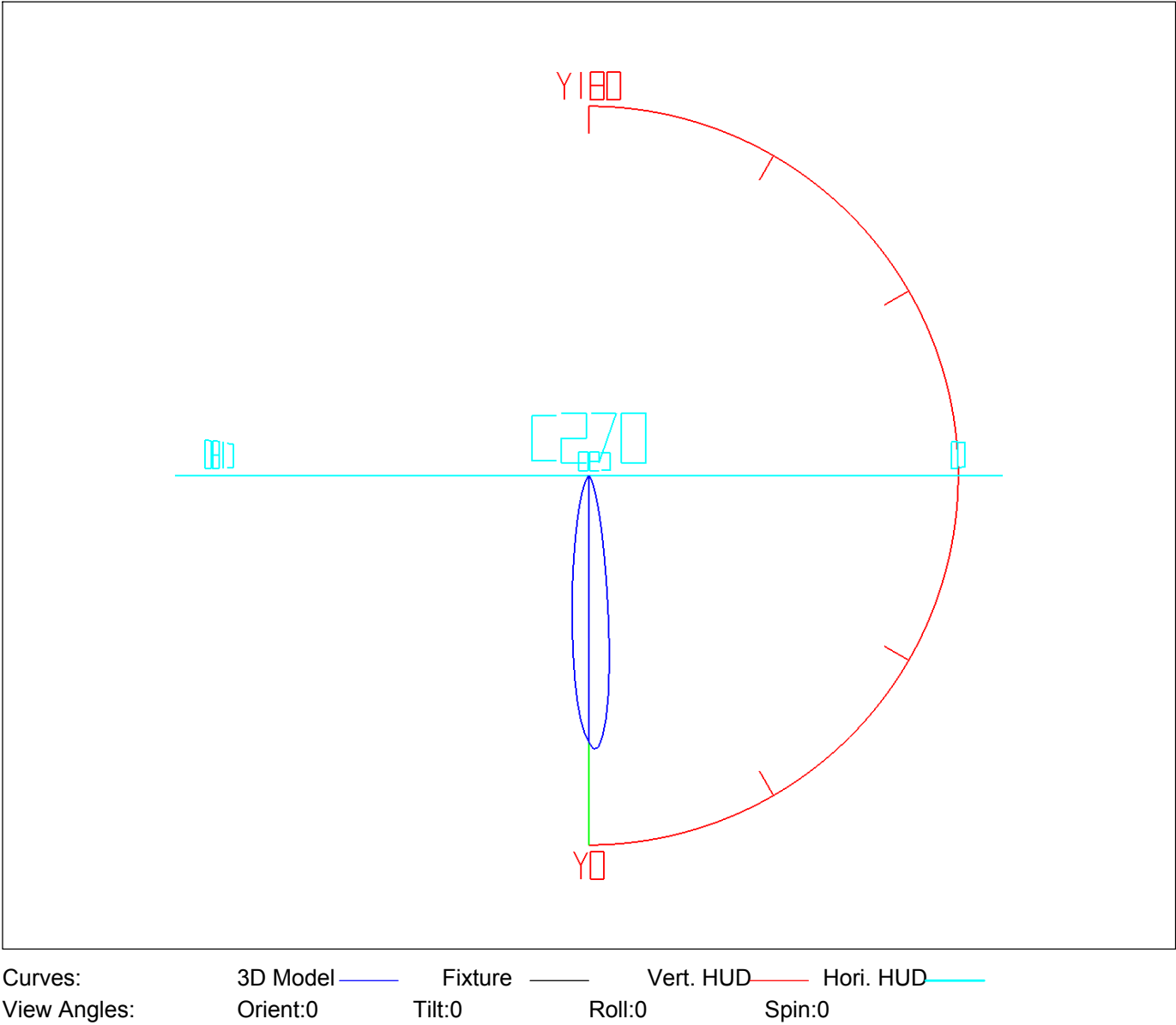
| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:SD06-06-XX-01 3000K RA90 15D | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date:2021/04/16 |



3D Light Intensity Distribution Modal

| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:SD06-06-XX-01 3000K RA90 15D | 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:2021/04/16 |

3D Light Intensity Distribution Modal



IES Indoor Report

Photometric Filename:SD06-06-XX-01 3000K RA90 15D.IES

Zonal Flux Tabulation

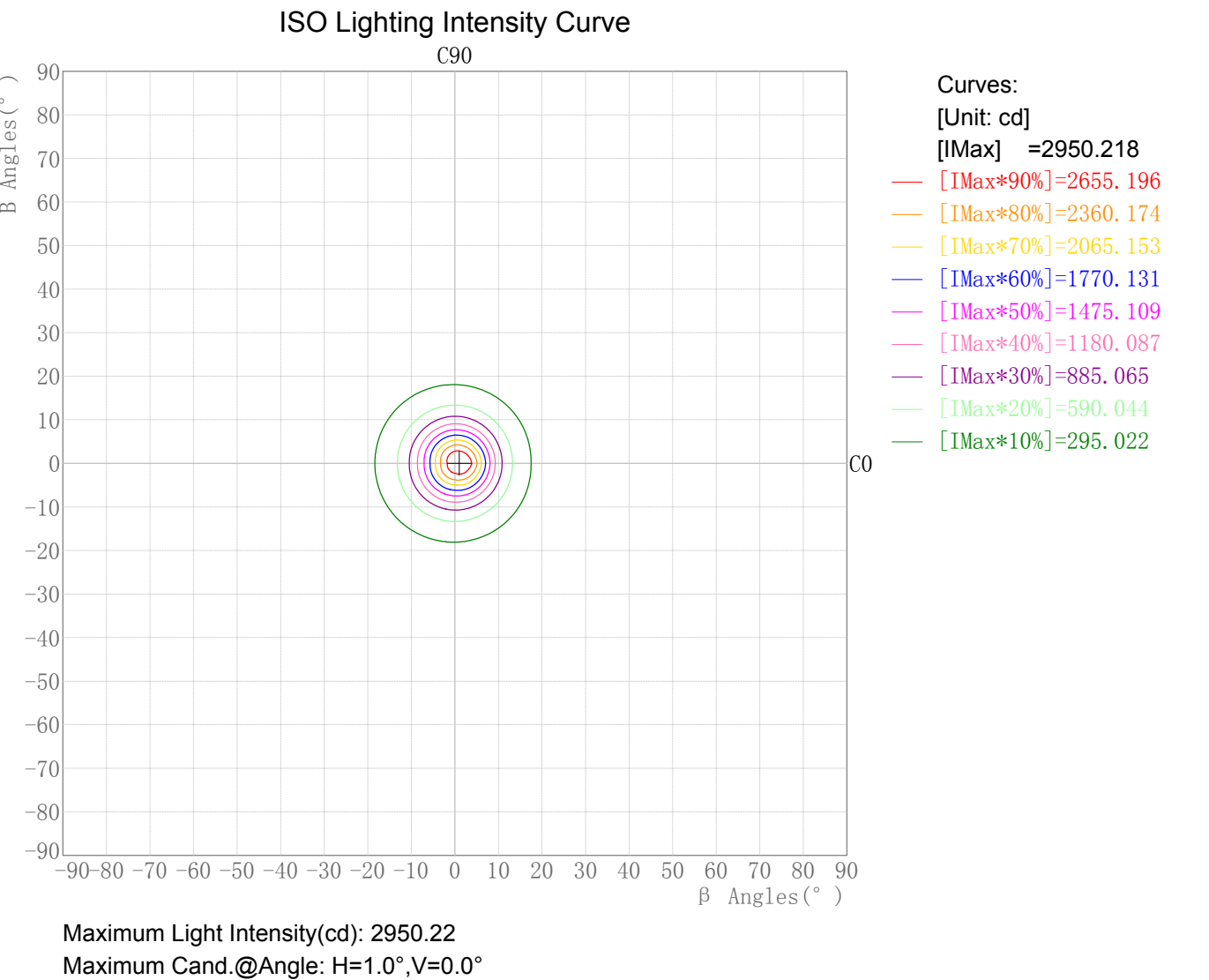
| Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|-----------|-------------------|-------------------|-----------|-----------|-----------|-------------------|-------------------|-----------|-----------|
| 0.0-1.0 | 2.74 | 2.74 | 0.70 | 0.70 | 47.0-48.0 | 0.58 | 384.09 | 0.15 | 98.02 |
| 1.0-2.0 | 8.03 | 10.77 | 2.05 | 2.75 | 48.0-49.0 | 0.54 | 384.63 | 0.14 | 98.16 |
| 2.0-3.0 | 12.81 | 23.58 | 3.27 | 6.02 | 49.0-50.0 | 0.49 | 385.12 | 0.13 | 98.28 |
| 3.0-4.0 | 16.68 | 40.26 | 4.26 | 10.27 | 50.0-51.0 | 0.44 | 385.56 | 0.11 | 98.39 |
| 4.0-5.0 | 19.43 | 59.70 | 4.96 | 15.23 | 51.0-52.0 | 0.40 | 385.96 | 0.10 | 98.49 |
| 5.0-6.0 | 21.04 | 80.74 | 5.37 | 20.60 | 52.0-53.0 | 0.37 | 386.33 | 0.09 | 98.59 |
| 6.0-7.0 | 21.69 | 102.43 | 5.53 | 26.14 | 53.0-54.0 | 0.35 | 386.68 | 0.09 | 98.68 |
| 7.0-8.0 | 21.55 | 123.98 | 5.50 | 31.64 | 54.0-55.0 | 0.33 | 387.01 | 0.08 | 98.76 |
| 8.0-9.0 | 20.79 | 144.77 | 5.31 | 36.94 | 55.0-56.0 | 0.31 | 387.32 | 0.08 | 98.84 |
| 9.0-10.0 | 19.65 | 164.42 | 5.01 | 41.96 | 56.0-57.0 | 0.30 | 387.61 | 0.08 | 98.92 |
| 10.0-11.0 | 18.36 | 182.78 | 4.68 | 46.64 | 57.0-58.0 | 0.28 | 387.89 | 0.07 | 98.99 |
| 11.0-12.0 | 17.06 | 199.84 | 4.35 | 51.00 | 58.0-59.0 | 0.27 | 388.16 | 0.07 | 99.06 |
| 12.0-13.0 | 15.82 | 215.66 | 4.04 | 55.04 | 59.0-60.0 | 0.25 | 388.41 | 0.06 | 99.12 |
| 13.0-14.0 | 14.64 | 230.30 | 3.73 | 58.77 | 60.0-61.0 | 0.24 | 388.65 | 0.06 | 99.18 |
| 14.0-15.0 | 13.50 | 243.79 | 3.44 | 62.21 | 61.0-62.0 | 0.22 | 388.87 | 0.06 | 99.24 |
| 15.0-16.0 | 12.41 | 256.20 | 3.17 | 65.38 | 62.0-63.0 | 0.21 | 389.08 | 0.05 | 99.29 |
| 16.0-17.0 | 11.39 | 267.59 | 2.91 | 68.29 | 63.0-64.0 | 0.20 | 389.28 | 0.05 | 99.34 |
| 17.0-18.0 | 10.45 | 278.04 | 2.67 | 70.95 | 64.0-65.0 | 0.18 | 389.46 | 0.05 | 99.39 |
| 18.0-19.0 | 9.58 | 287.62 | 2.45 | 73.40 | 65.0-66.0 | 0.17 | 389.63 | 0.04 | 99.43 |
| 19.0-20.0 | 8.80 | 296.42 | 2.25 | 75.65 | 66.0-67.0 | 0.16 | 389.79 | 0.04 | 99.47 |
| 20.0-21.0 | 8.08 | 304.50 | 2.06 | 77.71 | 67.0-68.0 | 0.15 | 389.94 | 0.04 | 99.51 |
| 21.0-22.0 | 7.42 | 311.93 | 1.89 | 79.60 | 68.0-69.0 | 0.14 | 390.08 | 0.03 | 99.55 |
| 22.0-23.0 | 6.82 | 318.74 | 1.74 | 81.34 | 69.0-70.0 | 0.12 | 390.20 | 0.03 | 99.58 |
| 23.0-24.0 | 6.26 | 325.00 | 1.60 | 82.94 | 70.0-71.0 | 0.11 | 390.32 | 0.03 | 99.61 |
| 24.0-25.0 | 5.75 | 330.75 | 1.47 | 84.40 | 71.0-72.0 | 0.10 | 390.42 | 0.03 | 99.63 |
| 25.0-26.0 | 5.28 | 336.02 | 1.35 | 85.75 | 72.0-73.0 | 0.09 | 390.50 | 0.02 | 99.65 |
| 26.0-27.0 | 4.84 | 340.87 | 1.24 | 86.99 | 73.0-74.0 | 0.07 | 390.58 | 0.02 | 99.67 |
| 27.0-28.0 | 4.45 | 345.31 | 1.13 | 88.12 | 74.0-75.0 | 0.06 | 390.64 | 0.02 | 99.69 |
| 28.0-29.0 | 4.08 | 349.39 | 1.04 | 89.16 | 75.0-76.0 | 0.05 | 390.69 | 0.01 | 99.70 |
| 29.0-30.0 | 3.75 | 353.14 | 0.96 | 90.12 | 76.0-77.0 | 0.04 | 390.73 | 0.01 | 99.71 |
| 30.0-31.0 | 3.45 | 356.59 | 0.88 | 91.00 | 77.0-78.0 | 0.03 | 390.76 | 0.01 | 99.72 |
| 31.0-32.0 | 3.17 | 359.76 | 0.81 | 91.81 | 78.0-79.0 | 0.02 | 390.78 | 0.01 | 99.72 |
| 32.0-33.0 | 2.90 | 362.66 | 0.74 | 92.55 | 79.0-80.0 | 0.02 | 390.80 | 0.00 | 99.73 |
| 33.0-34.0 | 2.66 | 365.32 | 0.68 | 93.23 | 80.0-81.0 | 0.01 | 390.81 | 0.00 | 99.73 |
| 34.0-35.0 | 2.43 | 367.75 | 0.62 | 93.85 | 81.0-82.0 | 0.01 | 390.82 | 0.00 | 99.74 |
| 35.0-36.0 | 2.22 | 369.97 | 0.57 | 94.41 | 82.0-83.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 36.0-37.0 | 2.02 | 371.99 | 0.52 | 94.93 | 83.0-84.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 37.0-38.0 | 1.82 | 373.82 | 0.47 | 95.40 | 84.0-85.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 38.0-39.0 | 1.65 | 375.47 | 0.42 | 95.82 | 85.0-86.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 39.0-40.0 | 1.51 | 376.98 | 0.39 | 96.20 | 86.0-87.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 40.0-41.0 | 1.38 | 378.36 | 0.35 | 96.56 | 87.0-88.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 41.0-42.0 | 1.21 | 379.57 | 0.31 | 96.86 | 88.0-89.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 42.0-43.0 | 1.02 | 380.59 | 0.26 | 97.12 | 89.0-90.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 43.0-44.0 | 0.86 | 381.45 | 0.22 | 97.34 | 90.0-91.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 44.0-45.0 | 0.75 | 382.20 | 0.19 | 97.53 | 91.0-92.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 45.0-46.0 | 0.68 | 382.88 | 0.17 | 97.71 | 92.0-93.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 46.0-47.0 | 0.63 | 383.51 | 0.16 | 97.87 | 93.0-94.0 | 0.00 | 390.83 | 0.00 | 99.74 |

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 | 0.00 | 390.83 | 0.00 | 99.74 | 141.0-142.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 95.0-96.0 | 0.00 | 390.83 | 0.00 | 99.74 | 142.0-143.0 | 0.00 | 390.83 | 0.00 | 99.74 |
| 96.0-97.0 | 0.00 | 390.83 | 0.00 | 99.74 | 143.0-144.0 | 0.01 | 390.84 | 0.00 | 99.74 |
| 97.0-98.0 | 0.00 | 390.83 | 0.00 | 99.74 | 144.0-145.0 | 0.01 | 390.85 | 0.00 | 99.74 |
| 98.0-99.0 | 0.00 | 390.83 | 0.00 | 99.74 | 145.0-146.0 | 0.02 | 390.87 | 0.01 | 99.75 |
| 99.0-100.0 | 0.00 | 390.83 | 0.00 | 99.74 | 146.0-147.0 | 0.03 | 390.90 | 0.01 | 99.75 |
| 100.0-101.0 | 0.00 | 390.83 | 0.00 | 99.74 | 147.0-148.0 | 0.03 | 390.93 | 0.01 | 99.76 |
| 101.0-102.0 | 0.00 | 390.83 | 0.00 | 99.74 | 148.0-149.0 | 0.03 | 390.96 | 0.01 | 99.77 |
| 102.0-103.0 | 0.00 | 390.83 | 0.00 | 99.74 | 149.0-150.0 | 0.04 | 391.00 | 0.01 | 99.78 |
| 103.0-104.0 | 0.00 | 390.83 | 0.00 | 99.74 | 150.0-151.0 | 0.04 | 391.04 | 0.01 | 99.79 |
| 104.0-105.0 | 0.00 | 390.83 | 0.00 | 99.74 | 151.0-152.0 | 0.04 | 391.08 | 0.01 | 99.80 |
| 105.0-106.0 | 0.00 | 390.83 | 0.00 | 99.74 | 152.0-153.0 | 0.04 | 391.13 | 0.01 | 99.81 |
| 106.0-107.0 | 0.00 | 390.83 | 0.00 | 99.74 | 153.0-154.0 | 0.04 | 391.17 | 0.01 | 99.82 |
| 107.0-108.0 | 0.00 | 390.83 | 0.00 | 99.74 | 154.0-155.0 | 0.04 | 391.21 | 0.01 | 99.84 |
| 108.0-109.0 | 0.00 | 390.83 | 0.00 | 99.74 | 155.0-156.0 | 0.04 | 391.26 | 0.01 | 99.85 |
| 109.0-110.0 | 0.00 | 390.83 | 0.00 | 99.74 | 156.0-157.0 | 0.04 | 391.30 | 0.01 | 99.86 |
| 110.0-111.0 | 0.00 | 390.83 | 0.00 | 99.74 | 157.0-158.0 | 0.04 | 391.35 | 0.01 | 99.87 |
| 111.0-112.0 | 0.00 | 390.83 | 0.00 | 99.74 | 158.0-159.0 | 0.04 | 391.39 | 0.01 | 99.88 |
| 112.0-113.0 | 0.00 | 390.83 | 0.00 | 99.74 | 159.0-160.0 | 0.04 | 391.43 | 0.01 | 99.89 |
| 113.0-114.0 | 0.00 | 390.83 | 0.00 | 99.74 | 160.0-161.0 | 0.04 | 391.47 | 0.01 | 99.90 |
| 114.0-115.0 | 0.00 | 390.83 | 0.00 | 99.74 | 161.0-162.0 | 0.04 | 391.51 | 0.01 | 99.91 |
| 115.0-116.0 | 0.00 | 390.83 | 0.00 | 99.74 | 162.0-163.0 | 0.04 | 391.55 | 0.01 | 99.92 |
| 116.0-117.0 | 0.00 | 390.83 | 0.00 | 99.74 | 163.0-164.0 | 0.04 | 391.59 | 0.01 | 99.93 |
| 117.0-118.0 | 0.00 | 390.83 | 0.00 | 99.74 | 164.0-165.0 | 0.03 | 391.62 | 0.01 | 99.94 |
| 118.0-119.0 | 0.00 | 390.83 | 0.00 | 99.74 | 165.0-166.0 | 0.03 | 391.65 | 0.01 | 99.95 |
| 119.0-120.0 | 0.00 | 390.83 | 0.00 | 99.74 | 166.0-167.0 | 0.03 | 391.68 | 0.01 | 99.95 |
| 120.0-121.0 | 0.00 | 390.83 | 0.00 | 99.74 | 167.0-168.0 | 0.03 | 391.71 | 0.01 | 99.96 |
| 121.0-122.0 | 0.00 | 390.83 | 0.00 | 99.74 | 168.0-169.0 | 0.03 | 391.73 | 0.01 | 99.97 |
| 122.0-123.0 | 0.00 | 390.83 | 0.00 | 99.74 | 169.0-170.0 | 0.02 | 391.76 | 0.01 | 99.97 |
| 123.0-124.0 | 0.00 | 390.83 | 0.00 | 99.74 | 170.0-171.0 | 0.02 | 391.78 | 0.01 | 99.98 |
| 124.0-125.0 | 0.00 | 390.83 | 0.00 | 99.74 | 171.0-172.0 | 0.02 | 391.80 | 0.00 | 99.98 |
| 125.0-126.0 | 0.00 | 390.83 | 0.00 | 99.74 | 172.0-173.0 | 0.02 | 391.81 | 0.00 | 99.99 |
| 126.0-127.0 | 0.00 | 390.83 | 0.00 | 99.74 | 173.0-174.0 | 0.01 | 391.83 | 0.00 | 99.99 |
| 127.0-128.0 | 0.00 | 390.83 | 0.00 | 99.74 | 174.0-175.0 | 0.01 | 391.84 | 0.00 | 99.99 |
| 128.0-129.0 | 0.00 | 390.83 | 0.00 | 99.74 | 175.0-176.0 | 0.01 | 391.85 | 0.00 | 100.00 |
| 129.0-130.0 | 0.00 | 390.83 | 0.00 | 99.74 | 176.0-177.0 | 0.01 | 391.86 | 0.00 | 100.00 |
| 130.0-131.0 | 0.00 | 390.83 | 0.00 | 99.74 | 177.0-178.0 | 0.00 | 391.86 | 0.00 | 100.00 |
| 131.0-132.0 | 0.00 | 390.83 | 0.00 | 99.74 | 178.0-179.0 | 0.00 | 391.86 | 0.00 | 100.00 |
| 132.0-133.0 | 0.00 | 390.83 | 0.00 | 99.74 | 179.0-180.0 | 0.00 | 391.86 | 0.00 | 100.00 |
| 133.0-134.0 | 0.00 | 390.83 | 0.00 | 99.74 | | | | | |
| 134.0-135.0 | 0.00 | 390.83 | 0.00 | 99.74 | | | | | |
| 135.0-136.0 | 0.00 | 390.83 | 0.00 | 99.74 | | | | | |
| 136.0-137.0 | 0.00 | 390.83 | 0.00 | 99.74 | | | | | |
| 137.0-138.0 | 0.00 | 390.83 | 0.00 | 99.74 | | | | | |
| 138.0-139.0 | 0.00 | 390.83 | 0.00 | 99.74 | | | | | |
| 139.0-140.0 | 0.00 | 390.83 | 0.00 | 99.74 | | | | | |
| 140.0-141.0 | 0.00 | 390.83 | 0.00 | 99.74 | | | | | |

Rectangle ISO Lighting Intensity Diagram

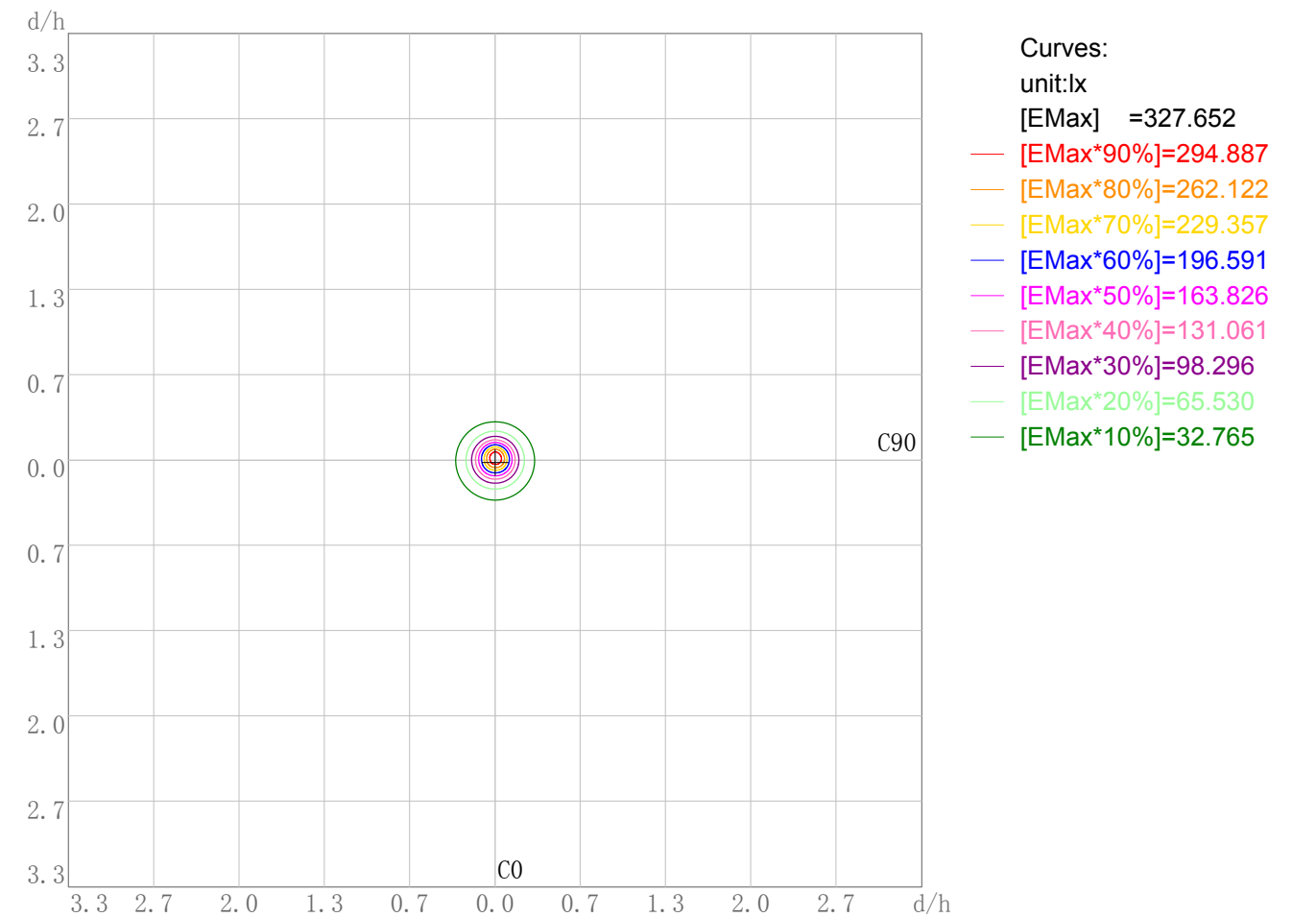
| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:SD06-06-XX-01 3000K RA90 15D | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date:2021/04/16 |



Plane ISO-Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name:SD06-06-XX-01 3000K RA90 15D | 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: 2021/04/16 |

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 327.65

Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

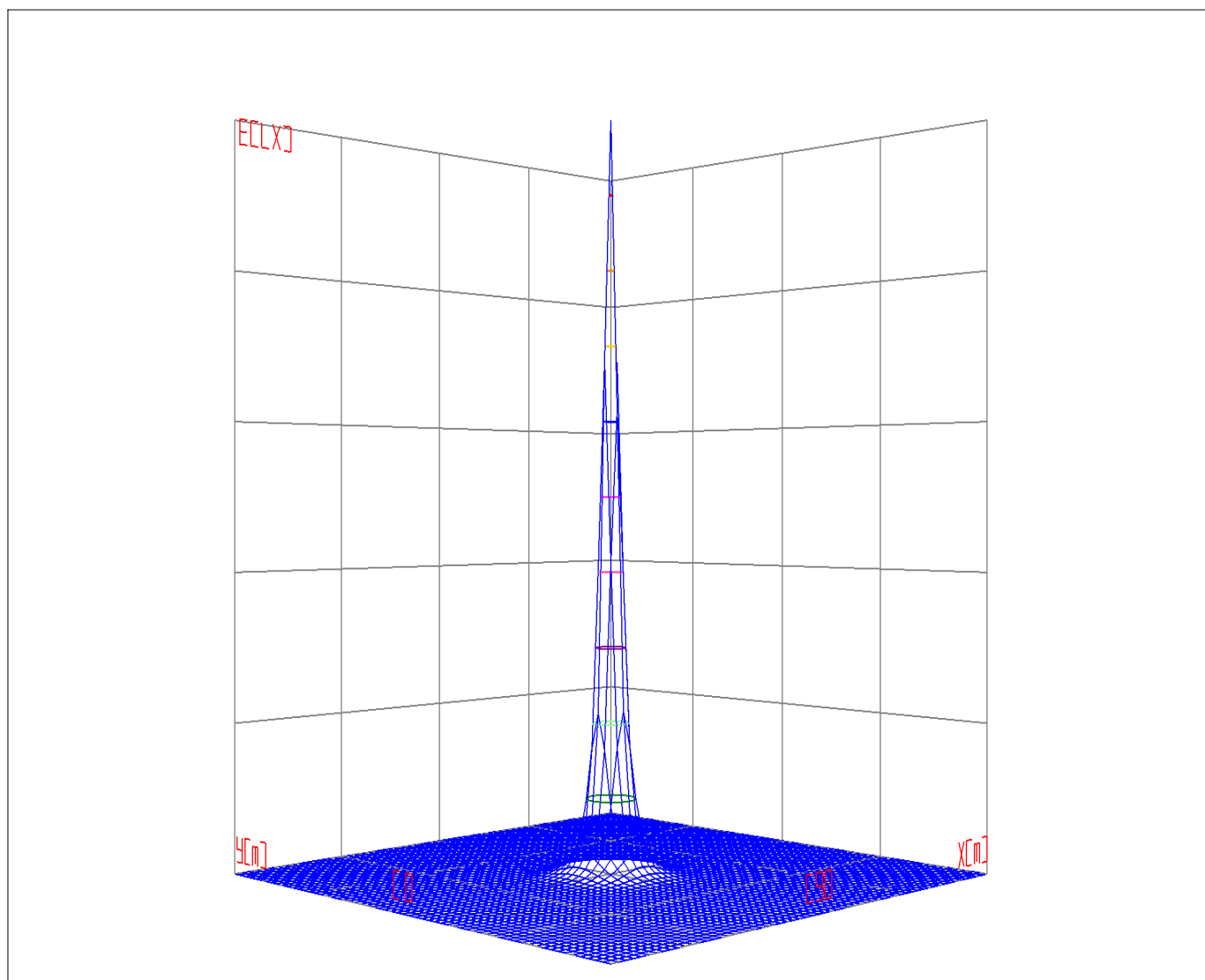
IES Indoor Report

Photometric Filename:SD06-06-XX-01 3000K RA90 15D.IES

3D Plane ISO Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD06-06-XX-01 3000K RA90 15D | 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: 2021/04/16 |

3D Plane Illuminance Modal

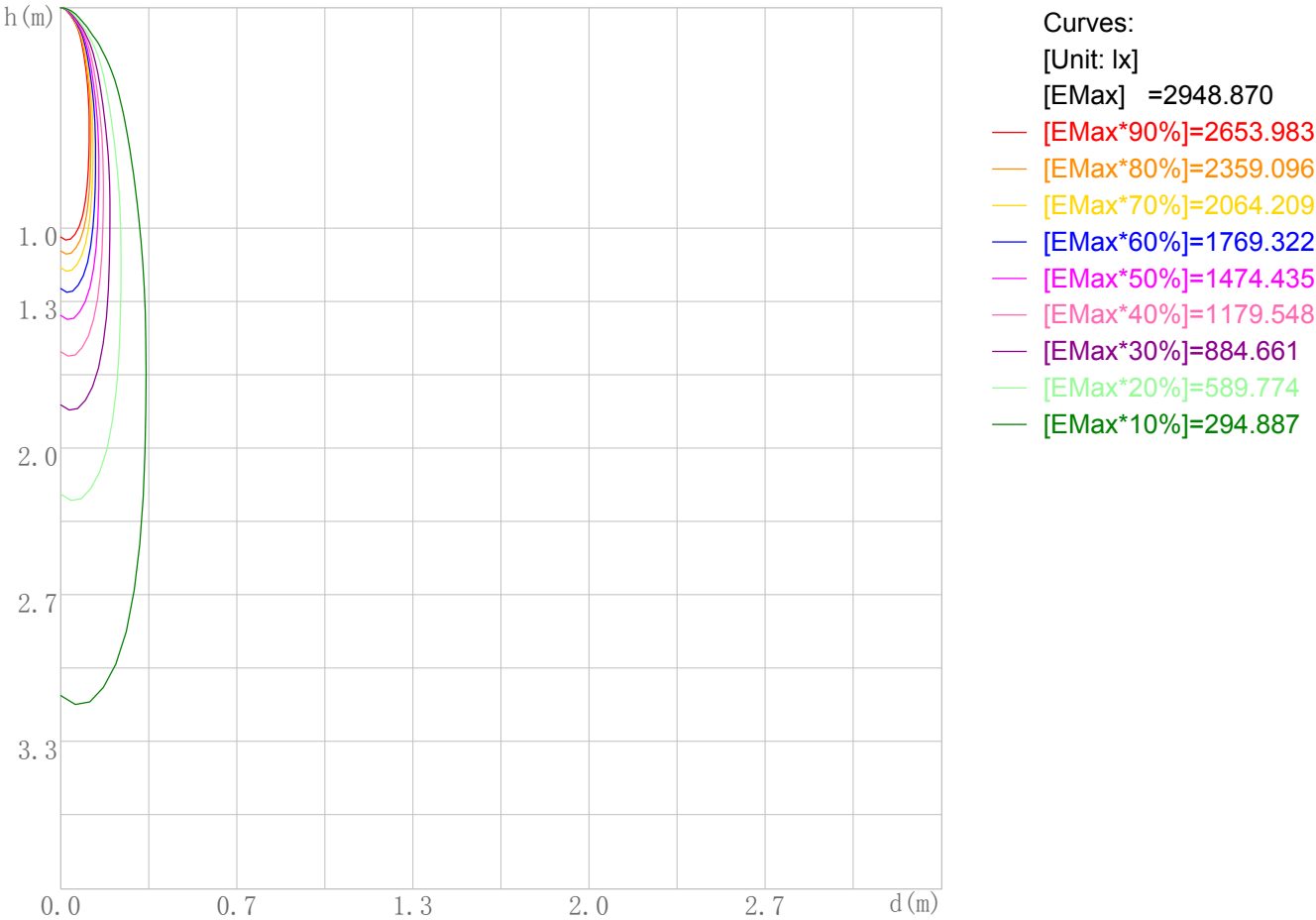


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD06-06-XX-01 3000K RA90 15D | 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: 2021/04/16 |

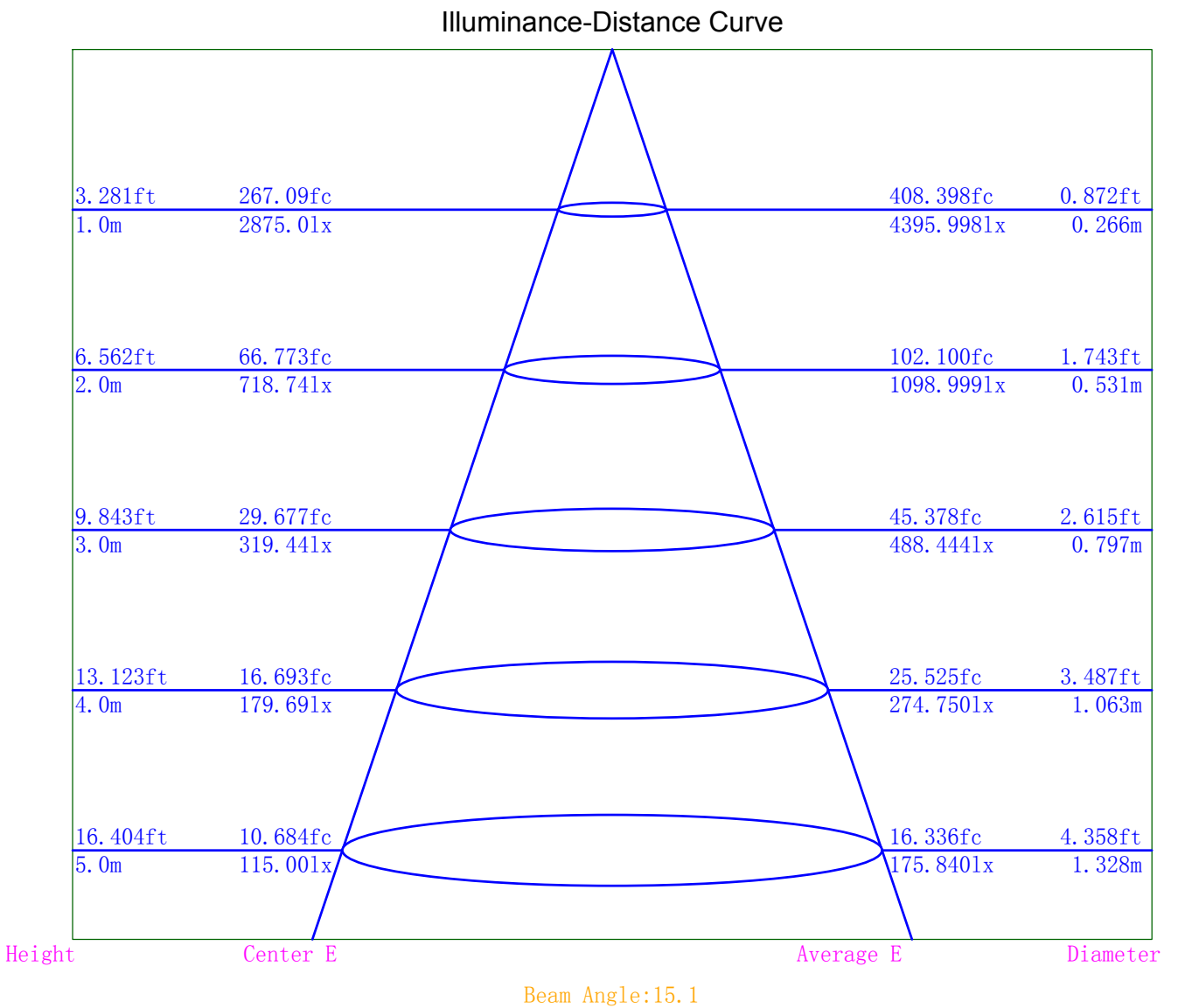
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:2948.87lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:2950.218cd,0deg

Illuminance-Distance Diagram

| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:SD06-06-XX-01 3000K RA90 15D | 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:2021/04/16 |



Indoor Luminance Limiting Curves

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD06-06-XX-01 3000K RA90 15D | 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: 2021/04/16 |

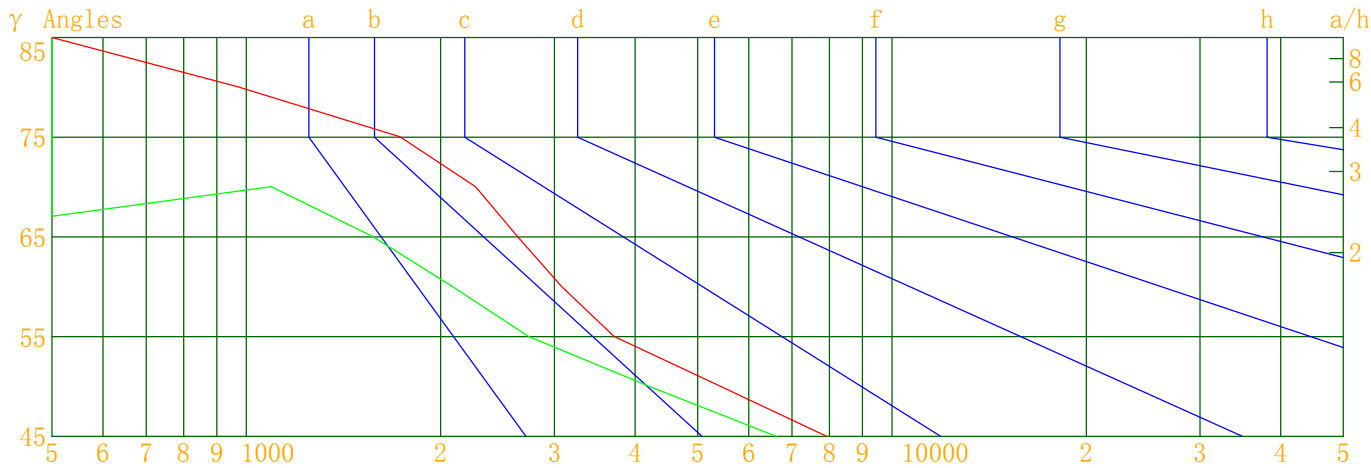
Glare Grade Table

| 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 | 7921 | 5431 | 3713 | 3078 | 2631 | 2265 | 1730 | 971 | 0 |
| C90 | 6620 | 4210 | 2737 | 2086 | 1570 | 1093 | 293 | 0 | 0 |

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

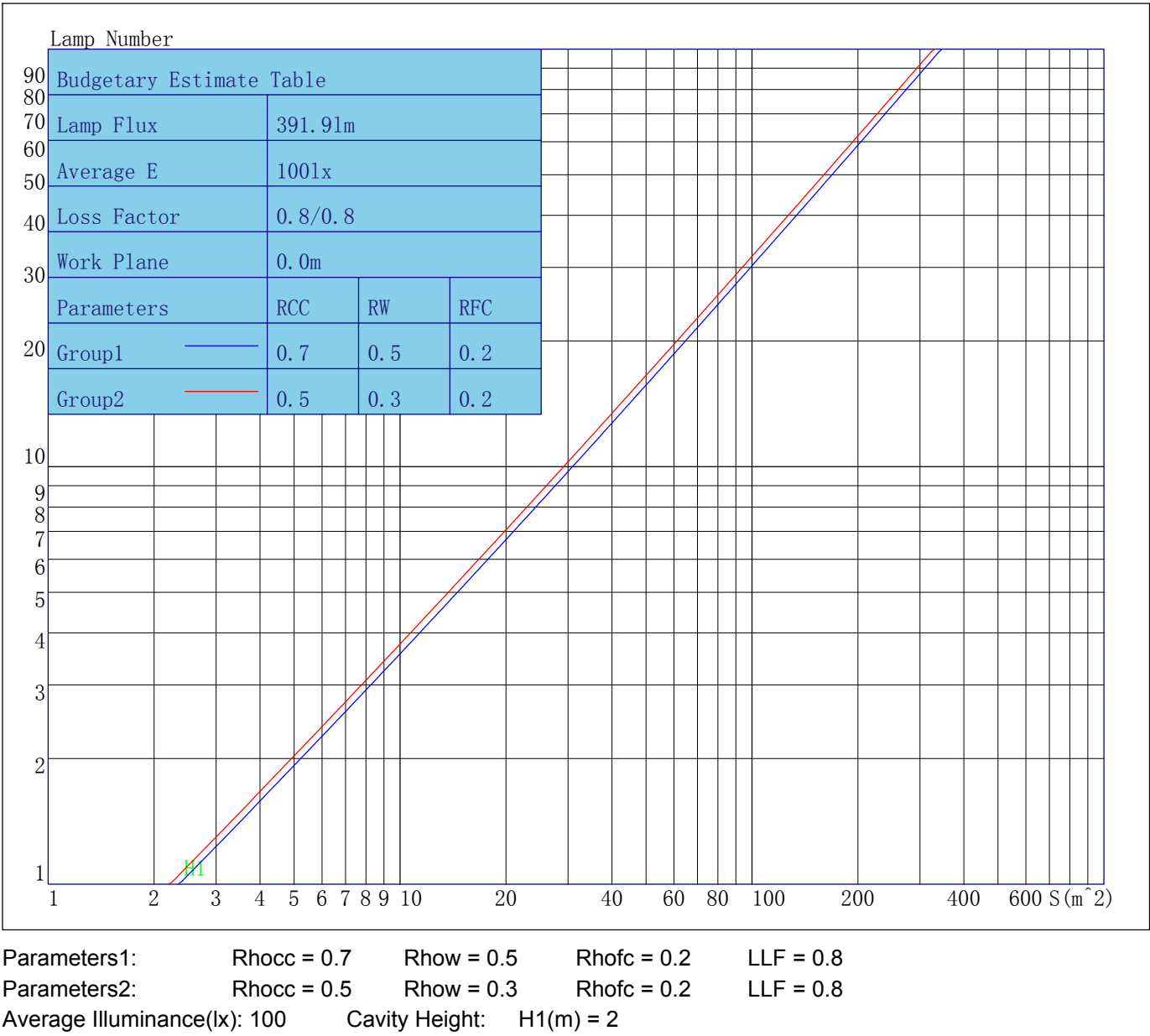
Luminous Curves:

C0-C180 Color: —

C90-C270 Color: —

Indoor Budgetary Estimate Table

| | | |
|---|-----------------------|------------------------------|
| Lum. Name:SD06-06-XX-01 3000K RA90 15D | 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: 2021/04/16 |



Indoor Coefficient of Utilization Table

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: SD06-06-XX-01 3000K RA90 15D | 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: 2021/04/16 |

| 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 | 102 | 102 | 102 | 100 |
| 1 | 115 | 113 | 111 | 109 | 112 | 111 | 109 | 107 | 107 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 |
| 2 | 111 | 107 | 104 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 100 | 98 | 96 | 97 | 95 | 94 | 93 |
| 3 | 107 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 99 | 96 | 94 | 96 | 94 | 92 | 94 | 92 | 91 | 90 |
| 4 | 104 | 99 | 95 | 91 | 102 | 97 | 94 | 91 | 95 | 92 | 90 | 94 | 91 | 89 | 92 | 90 | 88 | 87 |
| 5 | 101 | 95 | 91 | 88 | 99 | 94 | 90 | 87 | 92 | 89 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 84 |
| 6 | 98 | 92 | 87 | 84 | 97 | 91 | 87 | 84 | 90 | 86 | 84 | 88 | 85 | 83 | 87 | 85 | 83 | 81 |
| 7 | 95 | 89 | 85 | 82 | 94 | 88 | 84 | 81 | 87 | 84 | 81 | 86 | 83 | 81 | 85 | 82 | 80 | 79 |
| 8 | 93 | 86 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 79 | 84 | 81 | 78 | 83 | 80 | 78 | 77 |
| 9 | 90 | 84 | 80 | 77 | 89 | 83 | 79 | 77 | 82 | 79 | 76 | 82 | 79 | 76 | 81 | 78 | 76 | 75 |
| 10 | 88 | 81 | 77 | 75 | 87 | 81 | 77 | 75 | 80 | 77 | 75 | 80 | 77 | 74 | 79 | 76 | 74 | 73 |

Unified Glare Rating Table

| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:SD06-06-XX-01 3000K RA90 15D | 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:2021/04/16 |

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 | 12.0 | 12.9 | 12.4 | 13.2 | 13.5 | 11.8 | 12.7 | 12.1 | 13.0 | 13.3 |
| | 12.1 | 12.9 | 12.5 | 13.3 | 13.6 | 11.7 | 12.5 | 12.1 | 12.8 | 13.2 |
| | 12.1 | 12.9 | 12.5 | 13.2 | 13.6 | 11.6 | 12.3 | 12.0 | 12.7 | 13.1 |
| | 12.1 | 12.8 | 12.5 | 13.1 | 13.5 | 11.5 | 12.1 | 11.9 | 12.5 | 12.9 |
| | 12.0 | 12.7 | 12.5 | 13.1 | 13.5 | 11.4 | 12.0 | 11.8 | 12.4 | 12.9 |
| | 12.0 | 12.6 | 12.4 | 13.0 | 13.4 | 11.3 | 12.0 | 11.8 | 12.3 | 12.8 |
| X=4H Y=2H | 11.9 | 12.6 | 12.3 | 13.0 | 13.4 | 11.6 | 12.3 | 12.0 | 12.7 | 13.1 |
| | 12.1 | 12.7 | 12.5 | 13.1 | 13.5 | 11.5 | 12.1 | 11.9 | 12.5 | 13.0 |
| | 12.1 | 12.6 | 12.5 | 13.1 | 13.5 | 11.4 | 12.0 | 11.9 | 12.4 | 12.8 |
| | 12.1 | 12.5 | 12.5 | 13.0 | 13.5 | 11.3 | 11.8 | 11.8 | 12.2 | 12.7 |
| | 12.0 | 12.4 | 12.5 | 12.9 | 13.4 | 11.2 | 11.7 | 11.7 | 12.1 | 12.6 |
| | 11.9 | 12.3 | 12.4 | 12.8 | 13.3 | 11.2 | 11.5 | 11.6 | 12.0 | 12.5 |
| X=8H Y=4H | 12.0 | 12.4 | 12.5 | 12.9 | 13.3 | 11.3 | 11.7 | 11.7 | 12.1 | 12.6 |
| | 11.9 | 12.3 | 12.5 | 12.8 | 13.3 | 11.1 | 11.5 | 11.6 | 12.0 | 12.5 |
| | 11.9 | 12.2 | 12.4 | 12.7 | 13.2 | 11.1 | 11.3 | 11.6 | 11.9 | 12.4 |
| | 11.8 | 12.1 | 12.4 | 12.6 | 13.2 | 11.0 | 11.2 | 11.5 | 11.8 | 12.3 |
| X=12H Y=4H | 11.9 | 12.3 | 12.4 | 12.8 | 13.3 | 11.2 | 11.6 | 11.7 | 12.0 | 12.5 |
| | 11.9 | 12.2 | 12.4 | 12.7 | 13.2 | 11.1 | 11.4 | 11.6 | 11.8 | 12.4 |
| | 11.8 | 12.1 | 12.4 | 12.6 | 13.2 | 11.0 | 11.3 | 11.5 | 11.8 | 12.3 |
| Variations with the objerver position at spacings | | | | | | | | | | |
| S=1.0H | 1.1/-1.4 | | | | | 1.7/-2.1 | | | | |
| S=1.5H | 1.8/-2.4 | | | | | 3.8/-6.8 | | | | |
| S=2.0H | 2.1/-3.1 | | | | | 3.6/-9.4 | | | | |
| Reduced UGR Table: | | | | | | | | | | |
| Nordic Standard Table: | BK0 | | | | | BK0 | | | | |
| Correction Value | 0.5 | | | | | 0.2 | | | | |

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

IES Indoor Report

Photometric Filename:SD06-06-XX-01 3000K RA90 15D.IES

Candela Tabulation

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|---------|---------|---------|---------|
| γ 0.0 | 2874.98 | 2874.98 | 2874.98 | 2874.98 |
| γ 1.0 | 2950.22 | 2847.22 | 2770.81 | 2801.72 |
| γ 2.0 | 2933.59 | 2772.69 | 2617.82 | 2698.24 |
| γ 3.0 | 2816.99 | 2625.07 | 2422.29 | 2531.99 |
| γ 4.0 | 2637.38 | 2411.33 | 2184.82 | 2306.15 |
| γ 5.0 | 2392.56 | 2154.64 | 1932.88 | 2051.03 |
| γ 6.0 | 2095.53 | 1885.16 | 1699.26 | 1807.15 |
| γ 7.0 | 1788.83 | 1638.89 | 1486.16 | 1576.28 |
| γ 8.0 | 1495.25 | 1410.37 | 1287.90 | 1361.59 |
| γ 9.0 | 1238.00 | 1197.04 | 1107.51 | 1163.84 |
| γ 10.0 | 1027.52 | 1010.12 | 948.81 | 991.09 |
| γ 11.0 | 858.76 | 854.80 | 813.59 | 844.44 |
| γ 12.0 | 722.49 | 727.26 | 700.06 | 722.46 |
| γ 13.0 | 611.34 | 622.79 | 605.56 | 620.30 |
| γ 14.0 | 518.02 | 535.47 | 526.45 | 533.64 |
| γ 15.0 | 438.89 | 461.01 | 459.65 | 459.67 |
| γ 16.0 | 372.40 | 397.99 | 401.82 | 396.61 |
| γ 17.0 | 317.27 | 343.65 | 352.25 | 343.57 |
| γ 18.0 | 271.59 | 297.95 | 309.50 | 298.56 |
| γ 19.0 | 234.22 | 259.57 | 272.36 | 259.79 |
| γ 20.0 | 203.24 | 227.33 | 240.09 | 226.38 |
| γ 21.0 | 177.40 | 199.56 | 211.99 | 197.37 |
| γ 22.0 | 155.69 | 175.77 | 187.19 | 172.22 |
| γ 23.0 | 137.31 | 155.19 | 165.33 | 150.57 |
| γ 24.0 | 121.64 | 137.36 | 145.98 | 131.77 |
| γ 25.0 | 108.26 | 121.89 | 128.65 | 115.47 |
| γ 26.0 | 96.70 | 108.46 | 113.35 | 101.28 |
| γ 27.0 | 86.57 | 96.49 | 100.01 | 88.97 |
| γ 28.0 | 77.75 | 85.95 | 88.29 | 78.34 |
| γ 29.0 | 69.95 | 76.66 | 77.97 | 69.21 |
| γ 30.0 | 63.07 | 68.44 | 68.94 | 61.31 |
| γ 31.0 | 56.97 | 61.22 | 61.01 | 54.47 |
| γ 32.0 | 51.53 | 54.88 | 53.77 | 48.29 |
| γ 33.0 | 46.34 | 49.01 | 47.69 | 42.75 |
| γ 34.0 | 41.40 | 43.86 | 42.36 | 37.93 |
| γ 35.0 | 36.84 | 39.13 | 37.74 | 33.89 |
| γ 36.0 | 33.12 | 35.00 | 33.53 | 29.94 |
| γ 37.0 | 29.39 | 31.03 | 29.43 | 26.25 |
| γ 38.0 | 25.90 | 27.23 | 25.99 | 23.34 |
| γ 39.0 | 23.16 | 24.00 | 23.18 | 21.03 |
| γ 40.0 | 20.90 | 21.38 | 20.74 | 19.01 |
| γ 41.0 | 18.92 | 19.09 | 18.14 | 16.66 |
| γ 42.0 | 16.92 | 16.78 | 13.44 | 13.40 |
| γ 43.0 | 14.34 | 13.28 | 10.16 | 11.41 |
| γ 44.0 | 12.39 | 10.74 | 8.46 | 10.09 |
| γ 45.0 | 11.00 | 9.19 | 7.40 | 9.10 |
| γ 46.0 | 9.90 | 8.06 | 6.69 | 8.34 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|------|-------|--------|--------|
| γ 47.0 | 9.03 | 7.21 | 6.15 | 7.69 |
| γ 48.0 | 8.29 | 6.54 | 5.68 | 7.09 |
| γ 49.0 | 7.60 | 5.96 | 5.10 | 6.34 |
| γ 50.0 | 6.86 | 5.31 | 4.34 | 5.57 |
| γ 51.0 | 5.97 | 4.52 | 3.93 | 5.07 |
| γ 52.0 | 5.36 | 4.03 | 3.63 | 4.70 |
| γ 53.0 | 4.89 | 3.64 | 3.38 | 4.40 |
| γ 54.0 | 4.50 | 3.35 | 3.19 | 4.15 |
| γ 55.0 | 4.18 | 3.08 | 3.02 | 3.93 |
| γ 56.0 | 3.92 | 2.86 | 2.84 | 3.73 |
| γ 57.0 | 3.68 | 2.65 | 2.67 | 3.53 |
| γ 58.0 | 3.44 | 2.44 | 2.50 | 3.34 |
| γ 59.0 | 3.22 | 2.25 | 2.34 | 3.17 |
| γ 60.0 | 3.02 | 2.05 | 2.19 | 2.99 |
| γ 61.0 | 2.84 | 1.87 | 2.05 | 2.83 |
| γ 62.0 | 2.66 | 1.72 | 1.91 | 2.67 |
| γ 63.0 | 2.49 | 1.58 | 1.75 | 2.51 |
| γ 64.0 | 2.33 | 1.44 | 1.61 | 2.35 |
| γ 65.0 | 2.18 | 1.30 | 1.49 | 2.21 |
| γ 66.0 | 2.05 | 1.19 | 1.36 | 2.07 |
| γ 67.0 | 1.91 | 1.06 | 1.23 | 1.92 |
| γ 68.0 | 1.77 | 0.95 | 1.11 | 1.78 |
| γ 69.0 | 1.64 | 0.84 | 0.98 | 1.64 |
| γ 70.0 | 1.52 | 0.73 | 0.86 | 1.50 |
| γ 71.0 | 1.40 | 0.61 | 0.72 | 1.35 |
| γ 72.0 | 1.26 | 0.50 | 0.59 | 1.21 |
| γ 73.0 | 1.12 | 0.38 | 0.47 | 1.08 |
| γ 74.0 | 1.01 | 0.27 | 0.36 | 0.94 |
| γ 75.0 | 0.88 | 0.15 | 0.24 | 0.81 |
| γ 76.0 | 0.76 | 0.06 | 0.16 | 0.69 |
| γ 77.0 | 0.64 | 0.00 | 0.04 | 0.58 |
| γ 78.0 | 0.54 | 0.00 | 0.00 | 0.47 |
| γ 79.0 | 0.43 | 0.00 | 0.00 | 0.36 |
| γ 80.0 | 0.33 | 0.00 | 0.00 | 0.27 |
| γ 81.0 | 0.23 | 0.00 | 0.00 | 0.17 |
| γ 82.0 | 0.14 | 0.00 | 0.00 | 0.09 |
| γ 83.0 | 0.04 | 0.00 | 0.00 | 0.01 |
| γ 84.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 85.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 86.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 87.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 88.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 89.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 90.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 91.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 92.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 93.0 | 0.00 | 0.00 | 0.00 | 0.00 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 94.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 95.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 96.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 97.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 98.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 99.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 100.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 101.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 102.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 103.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 104.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 105.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 106.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 107.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 108.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 109.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 110.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 111.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 112.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 113.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 114.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 115.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 116.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 117.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 118.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 119.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 120.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 121.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 122.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 123.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 124.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 125.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 126.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 127.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 128.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 129.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 130.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 131.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 132.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 133.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 134.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 135.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 136.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 137.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 138.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 139.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 140.0 | 0.00 | 0.00 | 0.00 | 0.00 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 141.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 142.0 | 0.00 | 0.00 | 0.07 | 0.08 |
| γ 143.0 | 0.00 | 0.00 | 0.18 | 0.20 |
| γ 144.0 | 0.10 | 0.00 | 0.30 | 0.30 |
| γ 145.0 | 0.21 | 0.04 | 0.40 | 0.40 |
| γ 146.0 | 0.32 | 0.15 | 0.49 | 0.50 |
| γ 147.0 | 0.43 | 0.25 | 0.59 | 0.57 |
| γ 148.0 | 0.52 | 0.34 | 0.68 | 0.67 |
| γ 149.0 | 0.61 | 0.42 | 0.75 | 0.73 |
| γ 150.0 | 0.70 | 0.50 | 0.82 | 0.79 |
| γ 151.0 | 0.78 | 0.57 | 0.88 | 0.86 |
| γ 152.0 | 0.84 | 0.64 | 0.94 | 0.90 |
| γ 153.0 | 0.91 | 0.69 | 1.00 | 0.95 |
| γ 154.0 | 0.96 | 0.74 | 1.02 | 0.99 |
| γ 155.0 | 1.00 | 0.77 | 1.08 | 1.02 |
| γ 156.0 | 1.04 | 0.81 | 1.12 | 1.04 |
| γ 157.0 | 1.09 | 0.83 | 1.15 | 1.07 |
| γ 158.0 | 1.11 | 0.87 | 1.17 | 1.08 |
| γ 159.0 | 1.14 | 0.89 | 1.21 | 1.09 |
| γ 160.0 | 1.15 | 0.90 | 1.23 | 1.11 |
| γ 161.0 | 1.18 | 0.92 | 1.24 | 1.11 |
| γ 162.0 | 1.19 | 0.94 | 1.26 | 1.13 |
| γ 163.0 | 1.21 | 0.96 | 1.27 | 1.13 |
| γ 164.0 | 1.21 | 0.99 | 1.28 | 1.14 |
| γ 165.0 | 1.23 | 1.00 | 1.28 | 1.14 |
| γ 166.0 | 1.23 | 1.02 | 1.28 | 1.13 |
| γ 167.0 | 1.24 | 1.04 | 1.29 | 1.13 |
| γ 168.0 | 1.24 | 1.05 | 1.29 | 1.14 |
| γ 169.0 | 1.23 | 1.07 | 1.27 | 1.14 |
| γ 170.0 | 1.22 | 1.08 | 1.26 | 1.14 |
| γ 171.0 | 1.22 | 1.06 | 1.24 | 1.13 |
| γ 172.0 | 1.20 | 1.05 | 1.20 | 1.12 |
| γ 173.0 | 1.19 | 1.04 | 1.16 | 1.09 |
| γ 174.0 | 1.16 | 1.02 | 1.13 | 1.06 |
| γ 175.0 | 1.13 | 0.99 | 1.08 | 1.04 |
| γ 176.0 | 1.09 | 0.98 | 1.04 | 1.02 |
| γ 177.0 | 1.07 | 0.95 | 1.02 | 1.00 |
| γ 178.0 | 1.03 | 0.94 | 1.01 | 0.99 |
| γ 179.0 | 1.01 | 0.93 | 1.01 | 0.98 |
| γ 180.0 | 0.99 | 0.99 | 0.99 | 0.99 |