

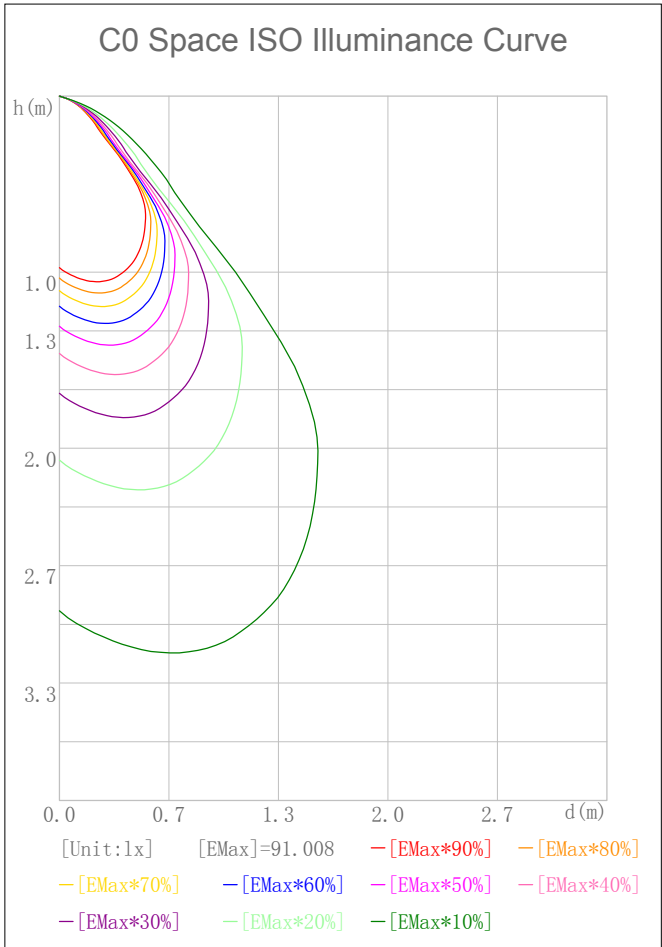
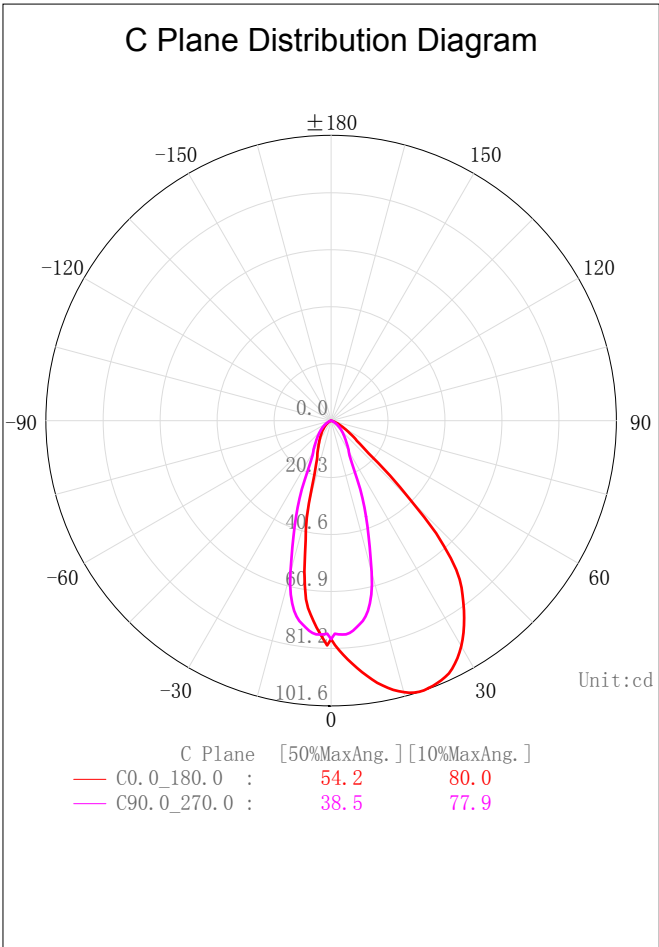
Indoor Luminaire Photometric Data

Description Information

| | | | |
|---|-------------------------|----------------------|-----------------------|
| Luminary Name: ST02-03-PR-06 5000K RA90 | | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | | Lamp Catalog: LED | Test Date: 2020/12/25 |
| 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):0.000m*0.000m*0.000m | | Lum. Area (m2):0.000 | Lum. W (kg): 0.000 |
| Test System: C, γ | Test Step: C=30.0 γ=1.0 | Temp. (°C): 25 | Humidity(%): 50.0 |

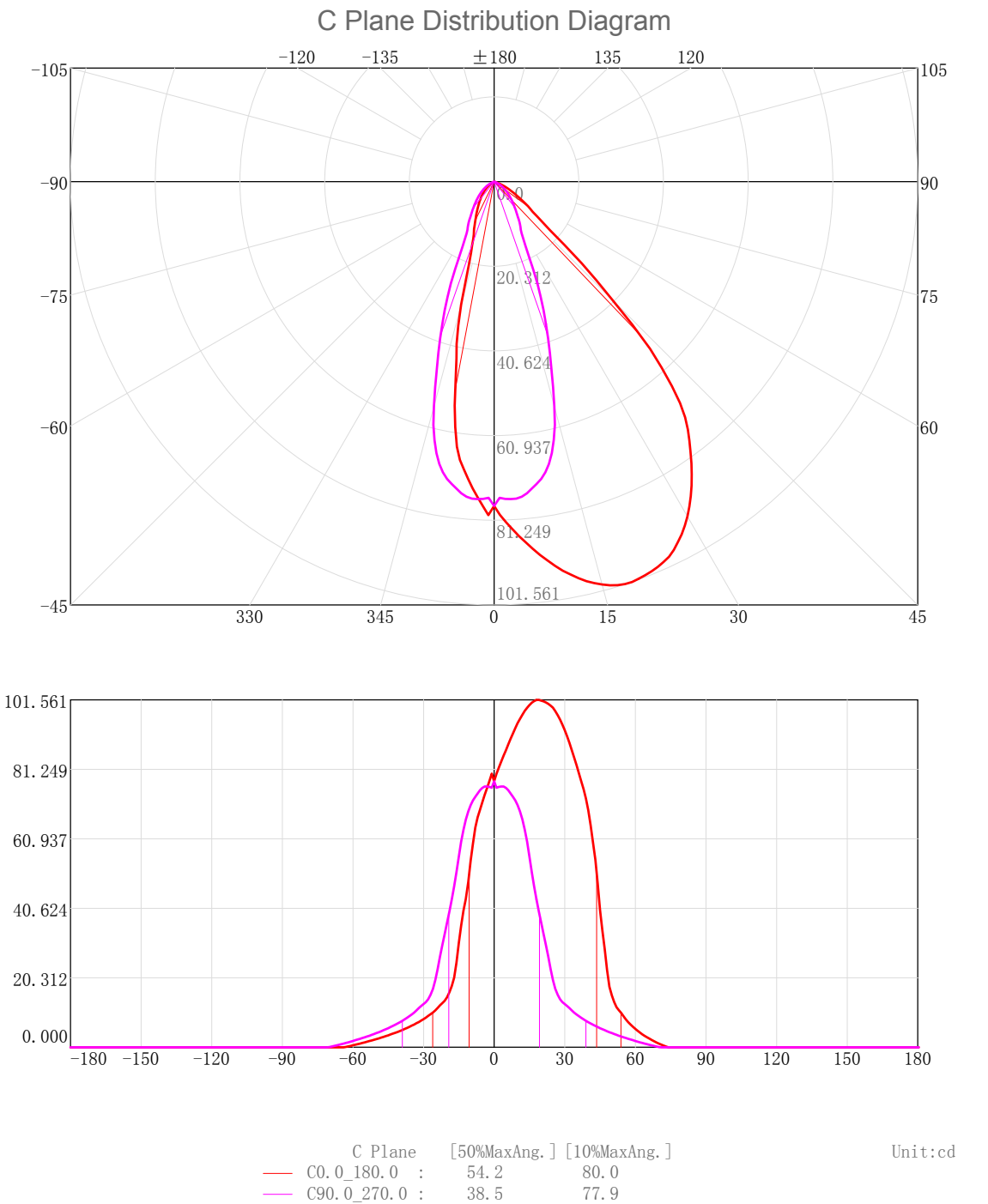
Character Parameter

| Lamp Speciality Parameter | | Luminaire Speciality Parameter | |
|---|---------------------------------|---------------------------------------|--|
| Rated Flux(lm): 70.530 | Luminary Flux(lm): 70.531 | Field Angle(10%Imax): 80.0(°) | |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 70.531lm 100.00% | |
| Rated Voltage(V): | Luminary EER(lm/W): 23.700 | Up Lumens&Percent: 0.000lm 0.00% | |
| Tested Power(W): 2.976 | Max. Candela(cd): 101.561 | S/MH: C0_a180=0.982 C90_270=0.633 | |
| Lamps' Inside: 1 | Max Cand@Ang. (°): C=0.0 γ=19.0 | CIE Type: Semi-Direct | |
| Tested Electrics (V, A, pf):240.3, 0.014, 0.853 | Beam Angle(50%Imax): 54.2(°) | ErP ϕ use(90°): 62.724lm | |
| Lamp Size (W*L*H):0.000m*0.000m*0.000m | Left=-10.6°, Right=43.6° | IRF(%): 187.031 | |



2D Plane Light Intensity Distribution Curve

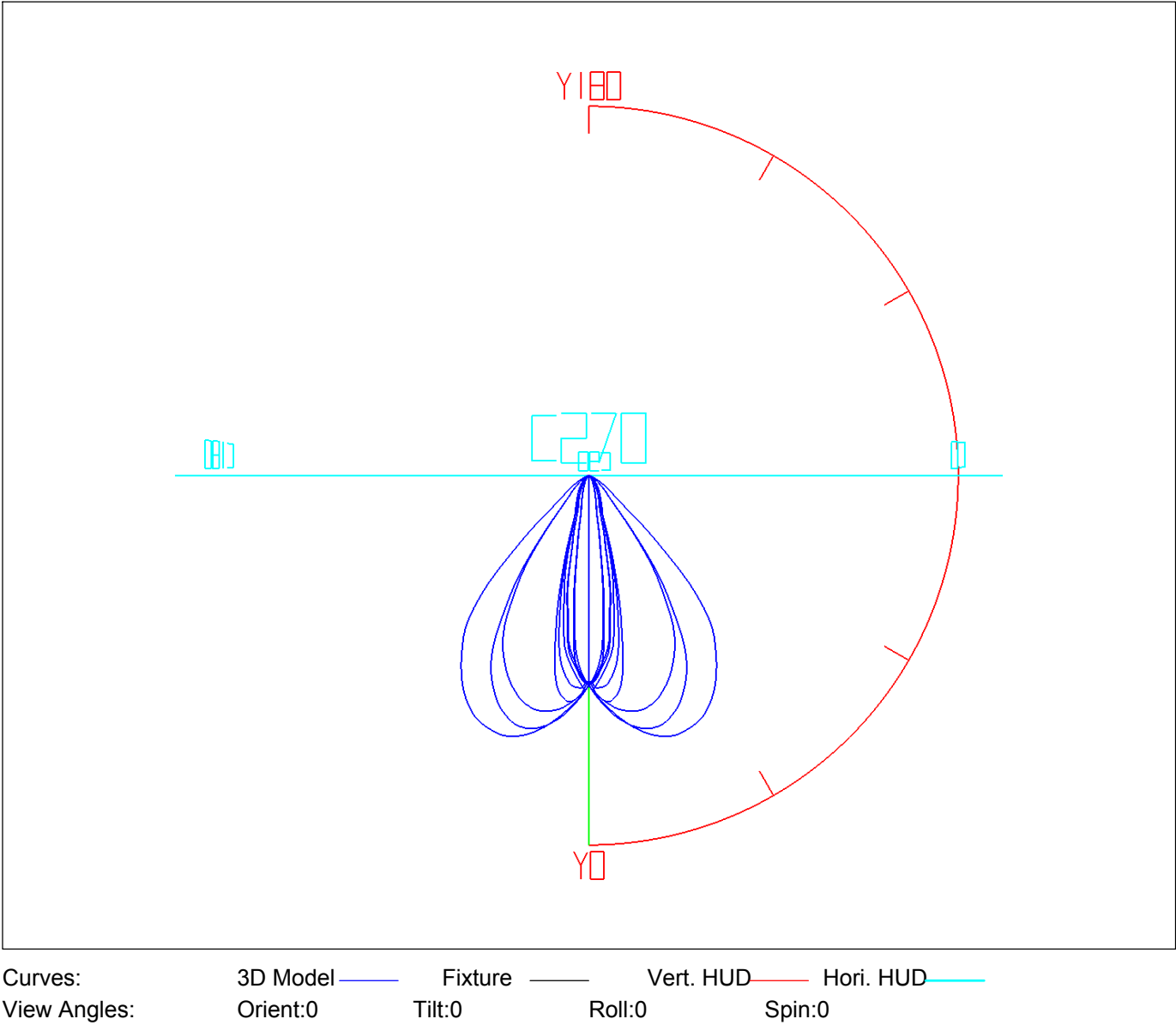
| | | |
|--|-----------------------|----------------------------|
| Lum. Name:ST02-03-PR-06 5000K RA90 | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Deparment |
| Manufacture:Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date:2020/12/25 |



3D Light Intensity Distribution Modal

| | | |
|--|-----------------------|----------------------------|
| Lum. Name:ST02-03-PR-06 5000K RA90 | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Deparment |
| Manufacture:Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date:2020/12/25 |

3D Light Intensity Distribution Modal



Zonal Flux Tabulation

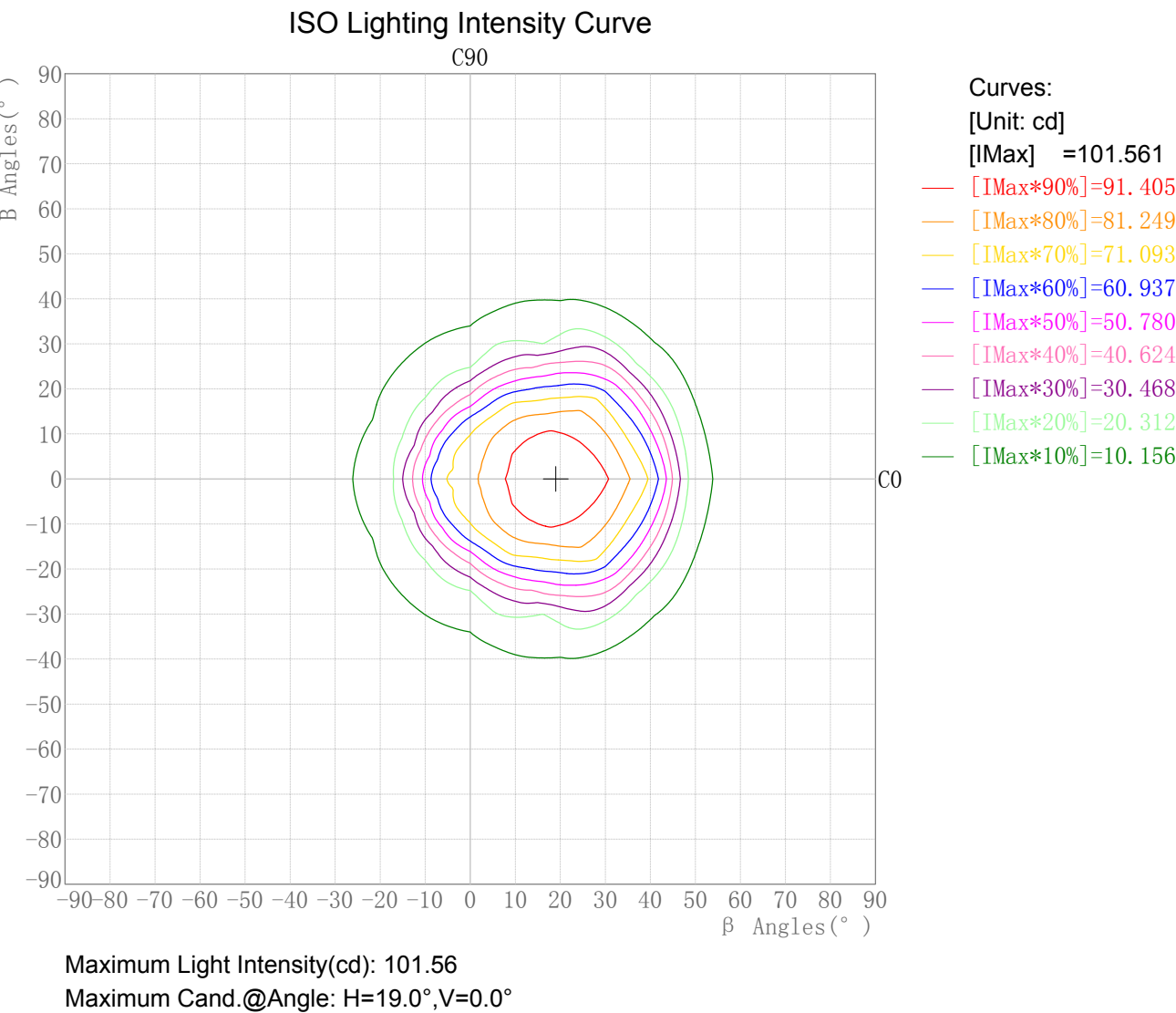
| Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|-----------|-------------------|-------------------|-----------|-----------|-----------|-------------------|-------------------|-----------|-----------|
| 0.0-1.0 | 0.07 | 0.07 | 0.11 | 0.11 | 47.0-48.0 | 0.62 | 64.78 | 0.88 | 91.85 |
| 1.0-2.0 | 0.22 | 0.30 | 0.32 | 0.42 | 48.0-49.0 | 0.56 | 65.34 | 0.79 | 92.64 |
| 2.0-3.0 | 0.37 | 0.67 | 0.53 | 0.95 | 49.0-50.0 | 0.51 | 65.85 | 0.73 | 93.36 |
| 3.0-4.0 | 0.52 | 1.19 | 0.74 | 1.69 | 50.0-51.0 | 0.48 | 66.33 | 0.68 | 94.04 |
| 4.0-5.0 | 0.67 | 1.86 | 0.95 | 2.63 | 51.0-52.0 | 0.44 | 66.77 | 0.63 | 94.67 |
| 5.0-6.0 | 0.81 | 2.67 | 1.15 | 3.79 | 52.0-53.0 | 0.41 | 67.18 | 0.59 | 95.25 |
| 6.0-7.0 | 0.95 | 3.62 | 1.35 | 5.14 | 53.0-54.0 | 0.39 | 67.57 | 0.55 | 95.80 |
| 7.0-8.0 | 1.09 | 4.71 | 1.54 | 6.68 | 54.0-55.0 | 0.36 | 67.93 | 0.51 | 96.31 |
| 8.0-9.0 | 1.21 | 5.92 | 1.72 | 8.40 | 55.0-56.0 | 0.33 | 68.26 | 0.47 | 96.78 |
| 9.0-10.0 | 1.32 | 7.25 | 1.88 | 10.27 | 56.0-57.0 | 0.30 | 68.56 | 0.43 | 97.21 |
| 10.0-11.0 | 1.42 | 8.67 | 2.01 | 12.29 | 57.0-58.0 | 0.28 | 68.84 | 0.39 | 97.60 |
| 11.0-12.0 | 1.51 | 10.17 | 2.14 | 14.42 | 58.0-59.0 | 0.25 | 69.09 | 0.36 | 97.96 |
| 12.0-13.0 | 1.58 | 11.76 | 2.25 | 16.67 | 59.0-60.0 | 0.23 | 69.32 | 0.33 | 98.29 |
| 13.0-14.0 | 1.65 | 13.40 | 2.33 | 19.00 | 60.0-61.0 | 0.21 | 69.53 | 0.29 | 98.58 |
| 14.0-15.0 | 1.69 | 15.09 | 2.40 | 21.40 | 61.0-62.0 | 0.18 | 69.71 | 0.26 | 98.84 |
| 15.0-16.0 | 1.72 | 16.82 | 2.44 | 23.84 | 62.0-63.0 | 0.16 | 69.87 | 0.23 | 99.07 |
| 16.0-17.0 | 1.75 | 18.57 | 2.48 | 26.33 | 63.0-64.0 | 0.14 | 70.01 | 0.20 | 99.26 |
| 17.0-18.0 | 1.78 | 20.34 | 2.52 | 28.84 | 64.0-65.0 | 0.12 | 70.13 | 0.17 | 99.44 |
| 18.0-19.0 | 1.80 | 22.14 | 2.55 | 31.40 | 65.0-66.0 | 0.10 | 70.24 | 0.15 | 99.58 |
| 19.0-20.0 | 1.82 | 23.96 | 2.58 | 33.97 | 66.0-67.0 | 0.09 | 70.32 | 0.12 | 99.70 |
| 20.0-21.0 | 1.83 | 25.79 | 2.59 | 36.56 | 67.0-68.0 | 0.07 | 70.39 | 0.10 | 99.80 |
| 21.0-22.0 | 1.83 | 27.62 | 2.60 | 39.16 | 68.0-69.0 | 0.05 | 70.44 | 0.07 | 99.88 |
| 22.0-23.0 | 1.84 | 29.45 | 2.60 | 41.76 | 69.0-70.0 | 0.04 | 70.48 | 0.05 | 99.93 |
| 23.0-24.0 | 1.84 | 31.29 | 2.61 | 44.37 | 70.0-71.0 | 0.02 | 70.50 | 0.03 | 99.96 |
| 24.0-25.0 | 1.84 | 33.13 | 2.60 | 46.97 | 71.0-72.0 | 0.01 | 70.52 | 0.02 | 99.98 |
| 25.0-26.0 | 1.83 | 34.96 | 2.59 | 49.57 | 72.0-73.0 | 0.01 | 70.53 | 0.01 | 100.00 |
| 26.0-27.0 | 1.82 | 36.78 | 2.58 | 52.15 | 73.0-74.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 27.0-28.0 | 1.80 | 38.58 | 2.56 | 54.70 | 74.0-75.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 28.0-29.0 | 1.79 | 40.37 | 2.54 | 57.24 | 75.0-76.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 29.0-30.0 | 1.78 | 42.15 | 2.52 | 59.75 | 76.0-77.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 30.0-31.0 | 1.75 | 43.90 | 2.49 | 62.24 | 77.0-78.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 31.0-32.0 | 1.72 | 45.62 | 2.44 | 64.68 | 78.0-79.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 32.0-33.0 | 1.67 | 47.29 | 2.37 | 67.05 | 79.0-80.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 33.0-34.0 | 1.62 | 48.92 | 2.30 | 69.36 | 80.0-81.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 34.0-35.0 | 1.57 | 50.49 | 2.23 | 71.59 | 81.0-82.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 35.0-36.0 | 1.52 | 52.01 | 2.16 | 73.74 | 82.0-83.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 36.0-37.0 | 1.47 | 53.48 | 2.08 | 75.83 | 83.0-84.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 37.0-38.0 | 1.42 | 54.90 | 2.02 | 77.84 | 84.0-85.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 38.0-39.0 | 1.37 | 56.27 | 1.94 | 79.78 | 85.0-86.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 39.0-40.0 | 1.30 | 57.57 | 1.85 | 81.63 | 86.0-87.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 40.0-41.0 | 1.22 | 58.79 | 1.73 | 83.36 | 87.0-88.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 41.0-42.0 | 1.13 | 59.92 | 1.60 | 84.95 | 88.0-89.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 42.0-43.0 | 1.03 | 60.95 | 1.46 | 86.42 | 89.0-90.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 43.0-44.0 | 0.94 | 61.89 | 1.33 | 87.74 | 90.0-91.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 44.0-45.0 | 0.84 | 62.72 | 1.19 | 88.93 | 91.0-92.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 45.0-46.0 | 0.75 | 63.48 | 1.07 | 90.00 | 92.0-93.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 46.0-47.0 | 0.68 | 64.16 | 0.97 | 90.97 | 93.0-94.0 | 0.00 | 70.53 | 0.00 | 100.00 |

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 | 70.53 | 0.00 | 100.00 | 141.0-142.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 95.0-96.0 | 0.00 | 70.53 | 0.00 | 100.00 | 142.0-143.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 96.0-97.0 | 0.00 | 70.53 | 0.00 | 100.00 | 143.0-144.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 97.0-98.0 | 0.00 | 70.53 | 0.00 | 100.00 | 144.0-145.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 98.0-99.0 | 0.00 | 70.53 | 0.00 | 100.00 | 145.0-146.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 99.0-100.0 | 0.00 | 70.53 | 0.00 | 100.00 | 146.0-147.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 100.0-101.0 | 0.00 | 70.53 | 0.00 | 100.00 | 147.0-148.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 101.0-102.0 | 0.00 | 70.53 | 0.00 | 100.00 | 148.0-149.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 102.0-103.0 | 0.00 | 70.53 | 0.00 | 100.00 | 149.0-150.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 103.0-104.0 | 0.00 | 70.53 | 0.00 | 100.00 | 150.0-151.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 104.0-105.0 | 0.00 | 70.53 | 0.00 | 100.00 | 151.0-152.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 105.0-106.0 | 0.00 | 70.53 | 0.00 | 100.00 | 152.0-153.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 106.0-107.0 | 0.00 | 70.53 | 0.00 | 100.00 | 153.0-154.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 107.0-108.0 | 0.00 | 70.53 | 0.00 | 100.00 | 154.0-155.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 108.0-109.0 | 0.00 | 70.53 | 0.00 | 100.00 | 155.0-156.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 109.0-110.0 | 0.00 | 70.53 | 0.00 | 100.00 | 156.0-157.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 110.0-111.0 | 0.00 | 70.53 | 0.00 | 100.00 | 157.0-158.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 111.0-112.0 | 0.00 | 70.53 | 0.00 | 100.00 | 158.0-159.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 112.0-113.0 | 0.00 | 70.53 | 0.00 | 100.00 | 159.0-160.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 113.0-114.0 | 0.00 | 70.53 | 0.00 | 100.00 | 160.0-161.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 114.0-115.0 | 0.00 | 70.53 | 0.00 | 100.00 | 161.0-162.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 115.0-116.0 | 0.00 | 70.53 | 0.00 | 100.00 | 162.0-163.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 116.0-117.0 | 0.00 | 70.53 | 0.00 | 100.00 | 163.0-164.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 117.0-118.0 | 0.00 | 70.53 | 0.00 | 100.00 | 164.0-165.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 118.0-119.0 | 0.00 | 70.53 | 0.00 | 100.00 | 165.0-166.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 119.0-120.0 | 0.00 | 70.53 | 0.00 | 100.00 | 166.0-167.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 120.0-121.0 | 0.00 | 70.53 | 0.00 | 100.00 | 167.0-168.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 121.0-122.0 | 0.00 | 70.53 | 0.00 | 100.00 | 168.0-169.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 122.0-123.0 | 0.00 | 70.53 | 0.00 | 100.00 | 169.0-170.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 123.0-124.0 | 0.00 | 70.53 | 0.00 | 100.00 | 170.0-171.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 124.0-125.0 | 0.00 | 70.53 | 0.00 | 100.00 | 171.0-172.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 125.0-126.0 | 0.00 | 70.53 | 0.00 | 100.00 | 172.0-173.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 126.0-127.0 | 0.00 | 70.53 | 0.00 | 100.00 | 173.0-174.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 127.0-128.0 | 0.00 | 70.53 | 0.00 | 100.00 | 174.0-175.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 128.0-129.0 | 0.00 | 70.53 | 0.00 | 100.00 | 175.0-176.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 129.0-130.0 | 0.00 | 70.53 | 0.00 | 100.00 | 176.0-177.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 130.0-131.0 | 0.00 | 70.53 | 0.00 | 100.00 | 177.0-178.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 131.0-132.0 | 0.00 | 70.53 | 0.00 | 100.00 | 178.0-179.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 132.0-133.0 | 0.00 | 70.53 | 0.00 | 100.00 | 179.0-180.0 | 0.00 | 70.53 | 0.00 | 100.00 |
| 133.0-134.0 | 0.00 | 70.53 | 0.00 | 100.00 | | | | | |
| 134.0-135.0 | 0.00 | 70.53 | 0.00 | 100.00 | | | | | |
| 135.0-136.0 | 0.00 | 70.53 | 0.00 | 100.00 | | | | | |
| 136.0-137.0 | 0.00 | 70.53 | 0.00 | 100.00 | | | | | |
| 137.0-138.0 | 0.00 | 70.53 | 0.00 | 100.00 | | | | | |
| 138.0-139.0 | 0.00 | 70.53 | 0.00 | 100.00 | | | | | |
| 139.0-140.0 | 0.00 | 70.53 | 0.00 | 100.00 | | | | | |
| 140.0-141.0 | 0.00 | 70.53 | 0.00 | 100.00 | | | | | |

Rectangle ISO Lighting Intensity Diagram

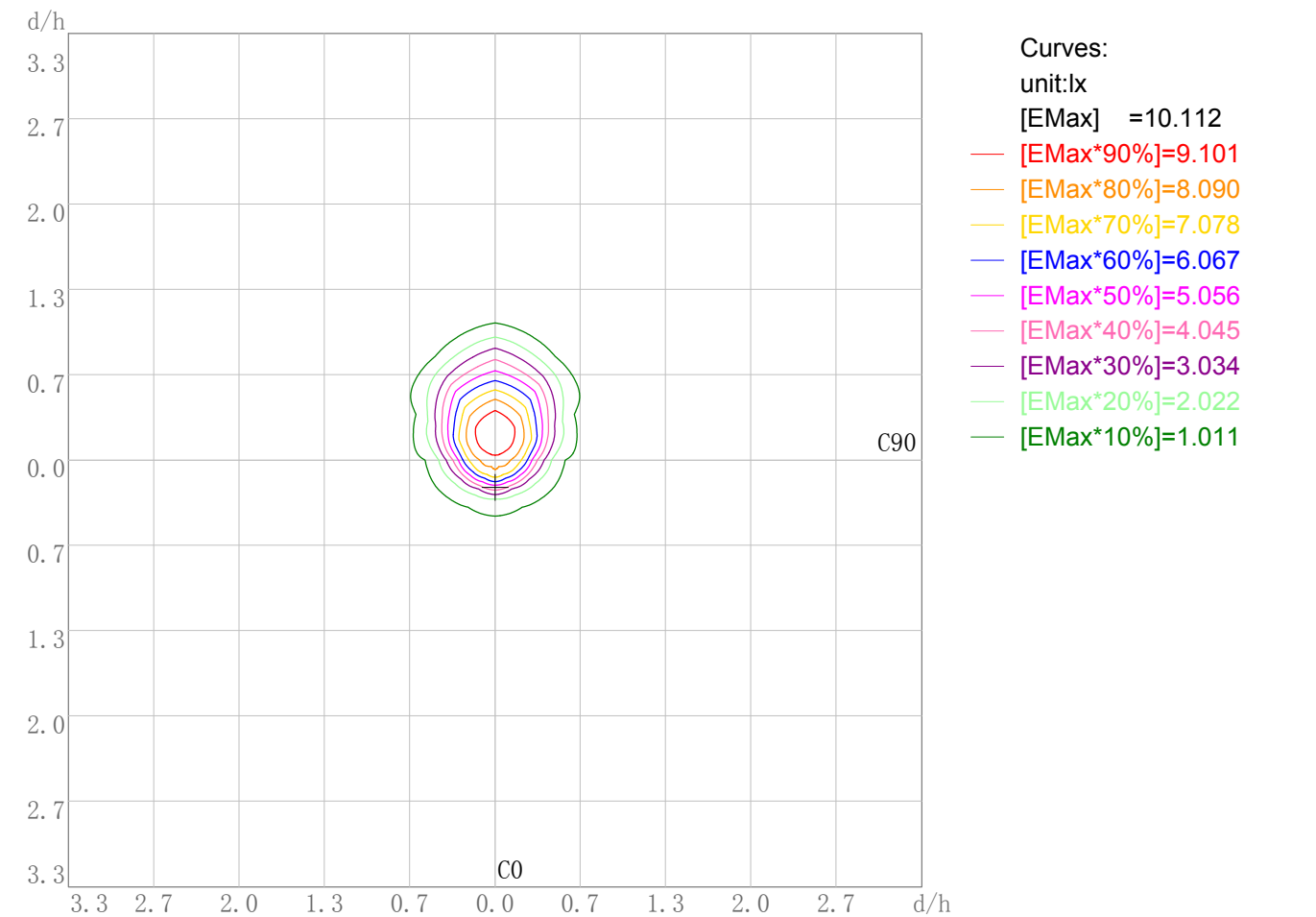
| | | |
|---|-----------------------|------------------------------|
| Lum. Name: ST02-03-PR-06 5000K RA90 | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2020/12/25 |



Plane ISO-Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: ST02-03-PR-06 5000K RA90 | 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: 2020/12/25 |

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 10.11

Working Plane Maximum Illuminance Position(d/h):H0.0 V0.2

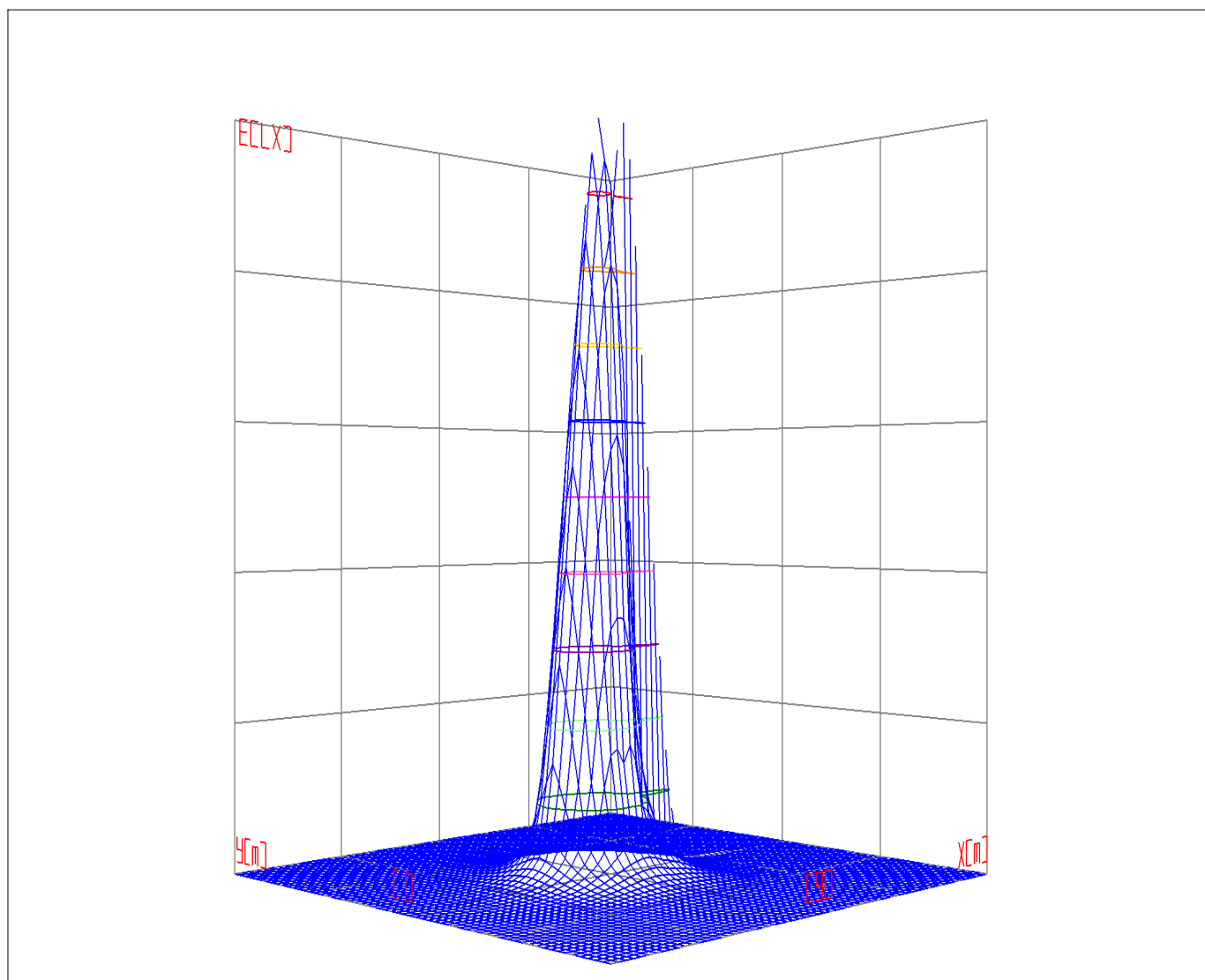
IES Indoor Report

Photometric Filename:ST02-03-PR-06 5000K RA90 .IES

3D Plane ISO Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: ST02-03-PR-06 5000K RA90 | 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: 2020/12/25 |

3D Plane Illuminance Modal

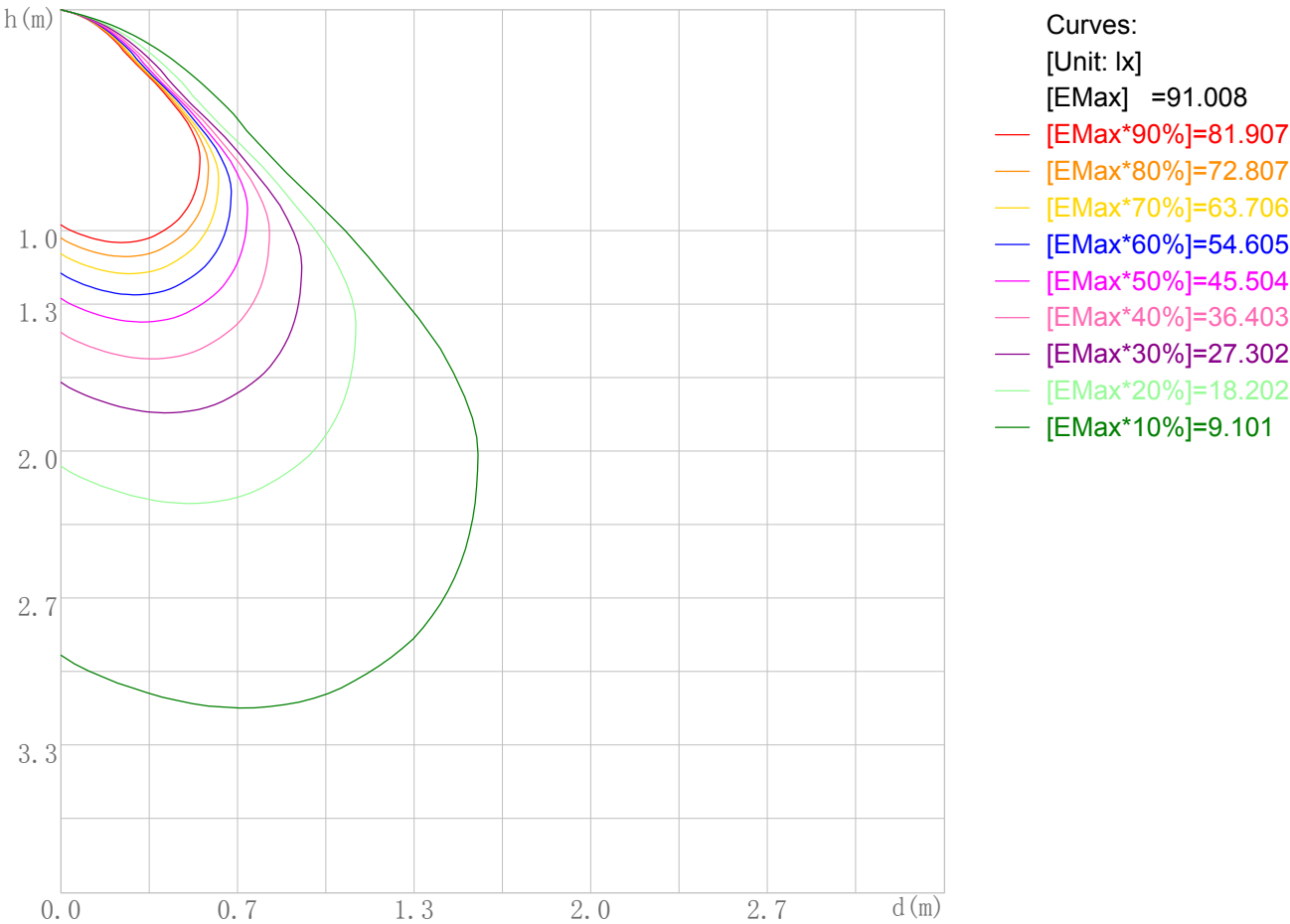


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: ST02-03-PR-06 5000K RA90 | 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: 2020/12/25 |

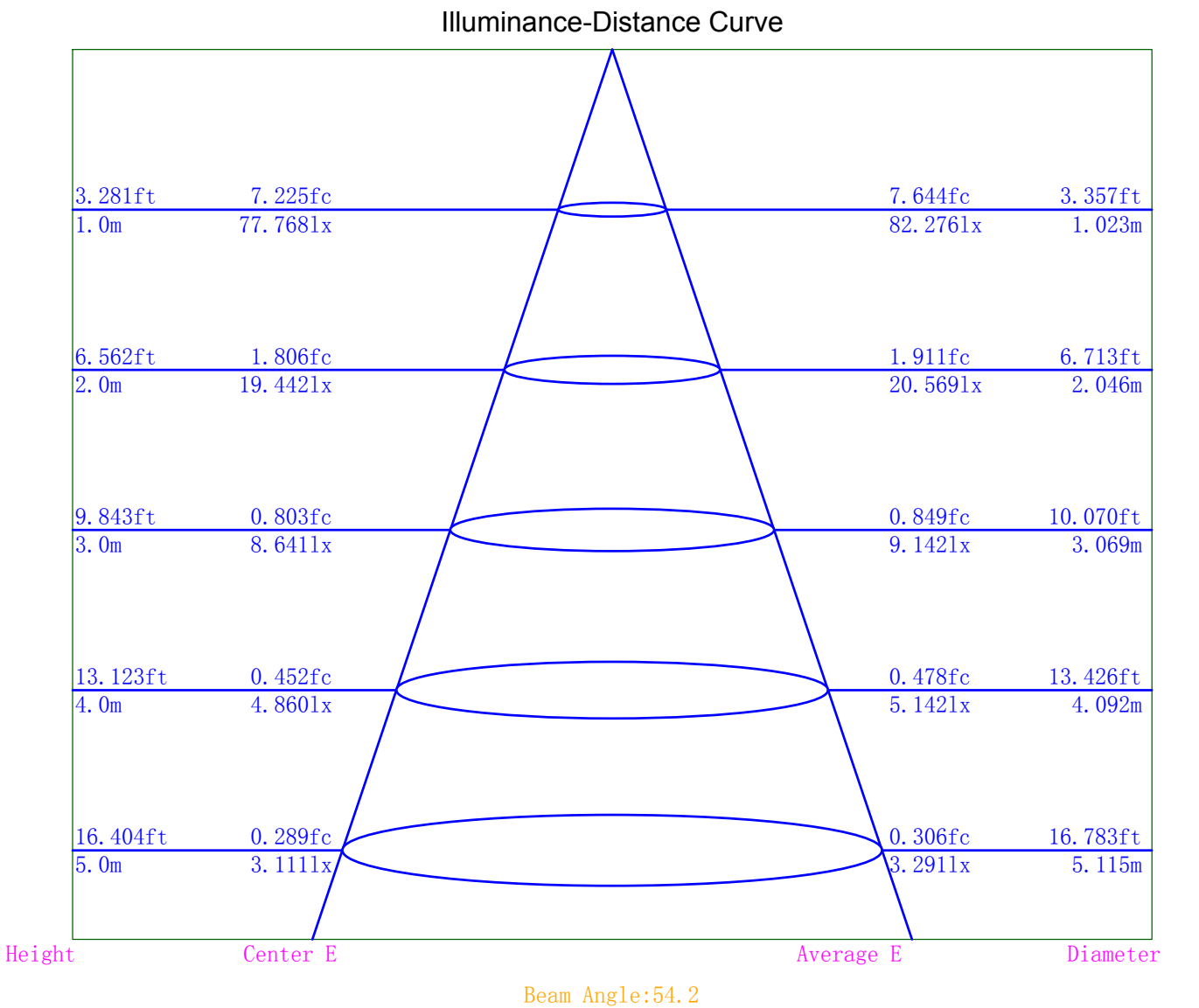
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:91.01lx,12.0deg
Plane Maximum Lighting Intensity and @Angle:101.561cd,0deg

Illuminance-Distance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: ST02-03-PR-06 5000K RA90 | 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: 2020/12/25 |



Indoor Luminance Limiting Curves

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: ST02-03-PR-06 5000K RA90 | 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: 2020/12/25 |

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Luminance Limiting Curve



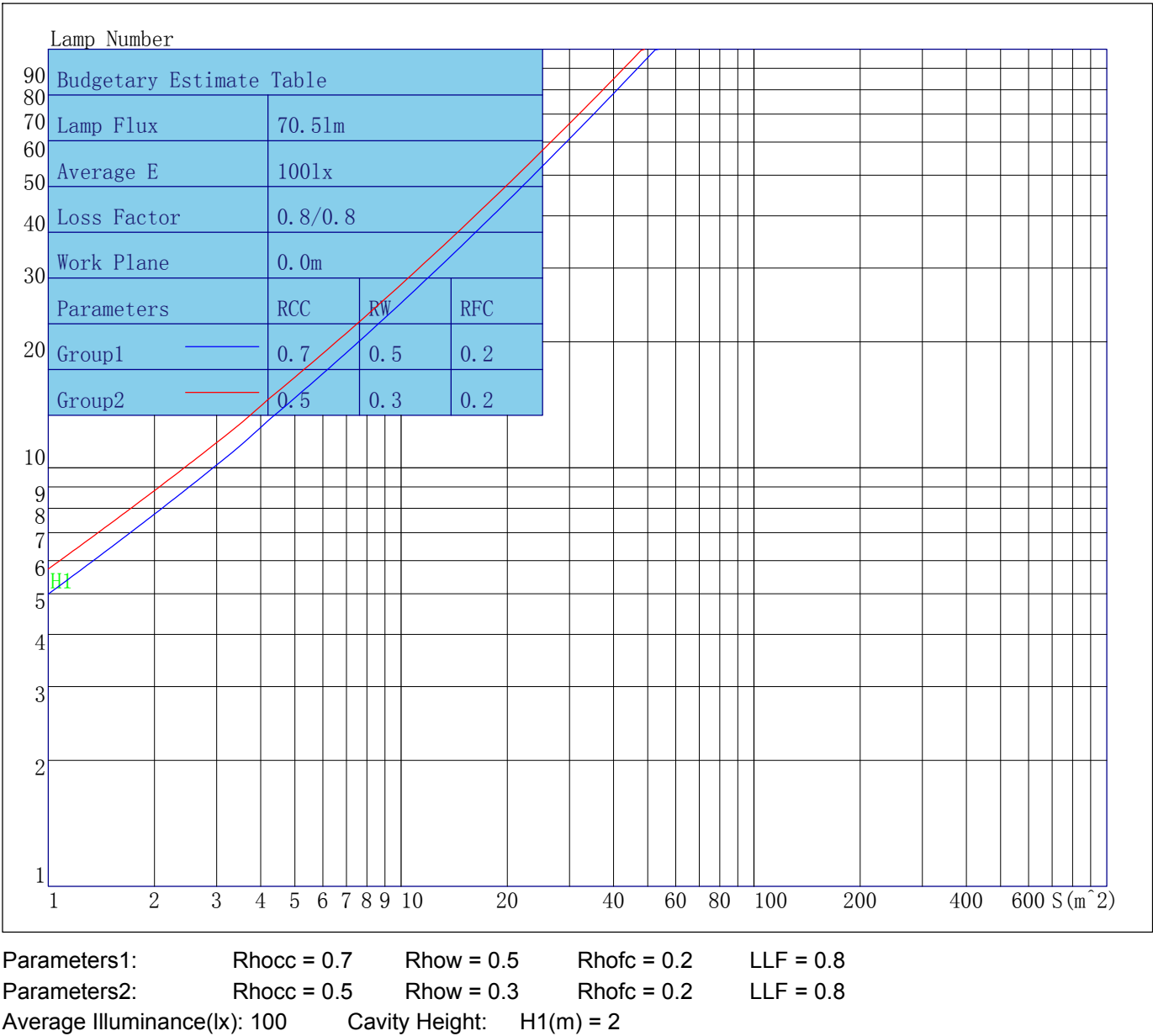
Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m^2)=0.000000

Luminous Type: Without Luminous Side

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

Indoor Budgetary Estimate Table

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: ST02-03-PR-06 5000K RA90 | 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: 2020/12/25 |



Indoor Coefficient of Utilization Table

| | | |
|---|-----------------------|-----------------------------|
| Lum. Name: ST02-03-PR-06 5000K RA90 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Deparment |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2020/12/25 |

| 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 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 97 | 95 | 94 | 92 |
| 2 | 107 | 101 | 97 | 93 | 104 | 100 | 96 | 92 | 96 | 93 | 90 | 93 | 91 | 88 | 91 | 88 | 86 | 85 |
| 3 | 101 | 94 | 88 | 84 | 99 | 92 | 87 | 83 | 89 | 85 | 82 | 87 | 83 | 80 | 85 | 82 | 79 | 77 |
| 4 | 95 | 87 | 81 | 76 | 93 | 85 | 80 | 75 | 83 | 78 | 75 | 81 | 77 | 74 | 79 | 76 | 73 | 71 |
| 5 | 89 | 80 | 74 | 69 | 88 | 79 | 73 | 69 | 78 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 |
| 6 | 85 | 75 | 68 | 64 | 83 | 74 | 68 | 63 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 65 | 62 | 61 |
| 7 | 80 | 70 | 63 | 59 | 79 | 69 | 63 | 59 | 68 | 62 | 58 | 67 | 62 | 58 | 65 | 61 | 58 | 56 |
| 8 | 76 | 65 | 59 | 55 | 74 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 52 |
| 9 | 72 | 62 | 55 | 51 | 71 | 61 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 49 |
| 10 | 68 | 58 | 52 | 48 | 67 | 58 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 46 |

Unified Glare Rating Table

| | | |
|---|-----------------------|-----------------------------|
| Lum. Name: ST02-03-PR-06 5000K RA90 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Deparment |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2020/12/25 |

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 | -10.3 | -9.1 | -9.9 | -8.8 | -8.5 | -10.3 | -9.1 | -9.9 | -8.8 | -8.5 | |
| | Y=3H | -10.4 | -9.4 | -10.0 | -9.1 | -8.7 | -10.4 | -9.4 | -10.0 | -9.1 | -8.7 |
| | Y=4H | -10.5 | -9.6 | -10.1 | -9.3 | -8.9 | -10.5 | -9.6 | -10.1 | -9.3 | -8.9 |
| | Y=6H | -10.6 | -9.8 | -10.2 | -9.4 | -9.0 | -10.6 | -9.8 | -10.2 | -9.4 | -9.0 |
| | Y=8H | -10.7 | -9.9 | -10.2 | -9.5 | -9.1 | -10.7 | -9.9 | -10.2 | -9.5 | -9.1 |
| | Y=12H | -10.7 | -10.0 | -10.3 | -9.6 | -9.2 | -10.7 | -10.0 | -10.3 | -9.6 | -9.2 |
| X=4H Y=2H | -10.5 | -9.6 | -10.1 | -9.3 | -8.9 | -10.5 | -9.6 | -10.1 | -9.3 | -8.9 | |
| | Y=3H | -10.7 | -10.0 | -10.3 | -9.6 | -9.2 | -10.7 | -10.0 | -10.3 | -9.6 | -9.2 |
| | Y=4H | -10.8 | -10.2 | -10.4 | -9.7 | -9.3 | -10.8 | -10.2 | -10.4 | -9.7 | -9.3 |
| | Y=6H | -10.9 | -10.4 | -10.4 | -9.9 | -9.4 | -10.9 | -10.4 | -10.4 | -9.9 | -9.4 |
| | Y=8H | -11.0 | -10.5 | -10.5 | -10.0 | -9.5 | -11.0 | -10.5 | -10.5 | -10.0 | -9.5 |
| | Y=12H | -11.0 | -10.6 | -10.5 | -10.1 | -9.6 | -11.0 | -10.6 | -10.5 | -10.1 | -9.6 |
| X=8H Y=4H | -11.0 | -10.5 | -10.5 | -10.0 | -9.5 | -11.0 | -10.5 | -10.5 | -10.0 | -9.5 | |
| | Y=6H | -11.1 | -10.7 | -10.6 | -10.2 | -9.7 | -11.1 | -10.7 | -10.6 | -10.2 | -9.7 |
| | Y=8H | -11.2 | -10.8 | -10.6 | -10.3 | -9.8 | -11.2 | -10.8 | -10.6 | -10.3 | -9.8 |
| | Y=12H | -11.2 | -10.9 | -10.7 | -10.4 | -9.8 | -11.2 | -10.9 | -10.7 | -10.4 | -9.8 |
| X=12H Y=4H | -11.0 | -10.6 | -10.5 | -10.1 | -9.6 | -11.0 | -10.6 | -10.5 | -10.1 | -9.6 | |
| | Y=6H | -11.2 | -10.8 | -10.6 | -10.3 | -9.8 | -11.2 | -10.8 | -10.6 | -10.3 | -9.8 |
| | Y=8H | -11.2 | -10.9 | -10.7 | -10.4 | -9.8 | -11.2 | -10.9 | -10.7 | -10.4 | -9.8 |
| Variations with the objerver position at spacings | | | | | | | | | | | |
| S=1.0H | 0.0/0.0 | | | | | 0.0/0.0 | | | | | |
| S=1.5H | 0.0/0.0 | | | | | 0.0/0.0 | | | | | |
| S=2.0H | 0.0/0.0 | | | | | 0.0/0.0 | | | | | |
| Reduced UGR Table: | | | | | | | | | | | |
| Nordic Standard Table: | BK0 | | | | | BK0 | | | | | |
| Correction Value | 0.0 | | | | | 0.0 | | | | | |

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

IES Indoor Report

Photometric Filename:ST02-03-PR-06 5000K RA90 .IES

Candela Tabulation

| V/H | C0. 0 | C30. 0 | C60. 0 | C90. 0 | C120. 0 | C150. 0 | C180. 0 |
|---------|---------|--------|--------|--------|---------|---------|---------|
| γ 0. 0 | 77. 77 | 77. 77 | 77. 77 | 77. 77 | 77. 77 | 77. 77 | 77. 77 |
| γ 1. 0 | 79. 92 | 79. 54 | 76. 49 | 75. 86 | 77. 22 | 77. 11 | 80. 01 |
| γ 2. 0 | 81. 75 | 81. 16 | 77. 82 | 76. 13 | 76. 50 | 75. 45 | 77. 87 |
| γ 3. 0 | 83. 45 | 82. 64 | 79. 17 | 76. 23 | 75. 74 | 73. 72 | 75. 82 |
| γ 4. 0 | 85. 24 | 84. 06 | 80. 20 | 76. 23 | 74. 67 | 71. 72 | 73. 77 |
| γ 5. 0 | 86. 83 | 85. 49 | 80. 71 | 75. 85 | 73. 54 | 69. 87 | 71. 60 |
| γ 6. 0 | 88. 54 | 86. 69 | 81. 00 | 75. 17 | 72. 15 | 68. 03 | 69. 40 |
| γ 7. 0 | 90. 21 | 88. 05 | 81. 39 | 74. 17 | 70. 52 | 66. 04 | 67. 25 |
| γ 8. 0 | 91. 72 | 89. 17 | 81. 70 | 73. 22 | 68. 61 | 63. 04 | 64. 21 |
| γ 9. 0 | 93. 29 | 90. 02 | 81. 88 | 72. 17 | 65. 99 | 57. 94 | 59. 58 |
| γ 10. 0 | 94. 77 | 90. 85 | 81. 86 | 70. 79 | 62. 04 | 52. 19 | 54. 53 |
| γ 11. 0 | 95. 98 | 91. 71 | 81. 60 | 68. 96 | 57. 20 | 48. 09 | 48. 38 |
| γ 12. 0 | 97. 25 | 92. 25 | 80. 91 | 66. 55 | 52. 68 | 44. 39 | 43. 39 |
| γ 13. 0 | 98. 34 | 92. 75 | 80. 35 | 63. 59 | 48. 63 | 39. 22 | 39. 97 |
| γ 14. 0 | 99. 23 | 93. 18 | 79. 59 | 60. 12 | 44. 57 | 32. 85 | 35. 58 |
| γ 15. 0 | 100. 03 | 93. 40 | 78. 76 | 55. 72 | 40. 03 | 27. 72 | 30. 50 |
| γ 16. 0 | 100. 74 | 93. 46 | 77. 67 | 51. 23 | 35. 13 | 24. 71 | 24. 77 |
| γ 17. 0 | 101. 22 | 93. 23 | 76. 19 | 47. 04 | 30. 44 | 22. 29 | 20. 37 |
| γ 18. 0 | 101. 50 | 93. 13 | 74. 39 | 43. 27 | 27. 09 | 19. 04 | 17. 94 |
| γ 19. 0 | 101. 56 | 92. 72 | 72. 07 | 39. 77 | 24. 60 | 16. 01 | 16. 15 |
| γ 20. 0 | 101. 33 | 92. 09 | 69. 15 | 36. 35 | 21. 81 | 14. 18 | 14. 62 |
| γ 21. 0 | 101. 11 | 91. 28 | 65. 78 | 33. 07 | 18. 81 | 12. 86 | 13. 59 |
| γ 22. 0 | 100. 80 | 90. 31 | 62. 12 | 29. 85 | 16. 41 | 12. 17 | 12. 94 |
| γ 23. 0 | 100. 39 | 89. 44 | 58. 56 | 26. 54 | 14. 77 | 11. 63 | 12. 29 |
| γ 24. 0 | 99. 87 | 88. 33 | 55. 31 | 22. 89 | 13. 85 | 11. 05 | 11. 50 |
| γ 25. 0 | 99. 26 | 87. 05 | 52. 18 | 19. 65 | 13. 27 | 10. 30 | 10. 81 |
| γ 26. 0 | 98. 26 | 85. 60 | 48. 43 | 17. 10 | 12. 68 | 9. 66 | 10. 20 |
| γ 27. 0 | 97. 05 | 83. 89 | 44. 48 | 15. 35 | 12. 01 | 9. 15 | 9. 67 |
| γ 28. 0 | 95. 79 | 82. 27 | 40. 48 | 14. 03 | 11. 25 | 8. 66 | 9. 18 |
| γ 29. 0 | 94. 30 | 80. 44 | 37. 01 | 13. 19 | 10. 64 | 8. 20 | 8. 68 |
| γ 30. 0 | 92. 70 | 78. 46 | 34. 03 | 12. 64 | 10. 11 | 7. 78 | 8. 24 |
| γ 31. 0 | 90. 91 | 76. 14 | 30. 20 | 12. 09 | 9. 58 | 7. 37 | 7. 82 |
| γ 32. 0 | 88. 99 | 73. 54 | 26. 07 | 11. 49 | 9. 12 | 6. 98 | 7. 40 |
| γ 33. 0 | 86. 89 | 70. 33 | 22. 23 | 10. 80 | 8. 68 | 6. 63 | 7. 05 |
| γ 34. 0 | 84. 73 | 66. 46 | 19. 49 | 10. 15 | 8. 27 | 6. 27 | 6. 68 |
| γ 35. 0 | 82. 47 | 61. 98 | 17. 67 | 9. 59 | 7. 87 | 5. 94 | 6. 34 |
| γ 36. 0 | 80. 07 | 57. 60 | 16. 21 | 9. 09 | 7. 49 | 5. 62 | 6. 00 |
| γ 37. 0 | 77. 76 | 53. 59 | 14. 96 | 8. 62 | 7. 13 | 5. 32 | 5. 68 |
| γ 38. 0 | 75. 47 | 49. 60 | 14. 14 | 8. 20 | 6. 79 | 5. 02 | 5. 37 |
| γ 39. 0 | 72. 75 | 44. 97 | 13. 48 | 7. 76 | 6. 46 | 4. 74 | 5. 07 |
| γ 40. 0 | 69. 33 | 39. 83 | 12. 83 | 7. 36 | 6. 14 | 4. 45 | 4. 79 |
| γ 41. 0 | 64. 97 | 33. 93 | 12. 11 | 6. 98 | 5. 84 | 4. 20 | 4. 51 |
| γ 42. 0 | 60. 00 | 28. 54 | 11. 29 | 6. 61 | 5. 54 | 3. 94 | 4. 25 |
| γ 43. 0 | 54. 81 | 23. 95 | 10. 57 | 6. 28 | 5. 26 | 3. 70 | 4. 00 |
| γ 44. 0 | 47. 77 | 19. 70 | 9. 94 | 5. 93 | 4. 99 | 3. 47 | 3. 76 |
| γ 45. 0 | 40. 04 | 16. 36 | 9. 35 | 5. 60 | 4. 71 | 3. 25 | 3. 51 |
| γ 46. 0 | 34. 07 | 14. 19 | 8. 79 | 5. 30 | 4. 47 | 3. 03 | 3. 30 |

Photometric Filename:ST02-03-PR-06 5000K RA90 .IES

Candela Tabulation - (Cont.)

[illegible]

Photometric Filename:ST02-03-PR-06 5000K RA90 .IES

Candela Tabulation - (Cont.)

[illegible]