

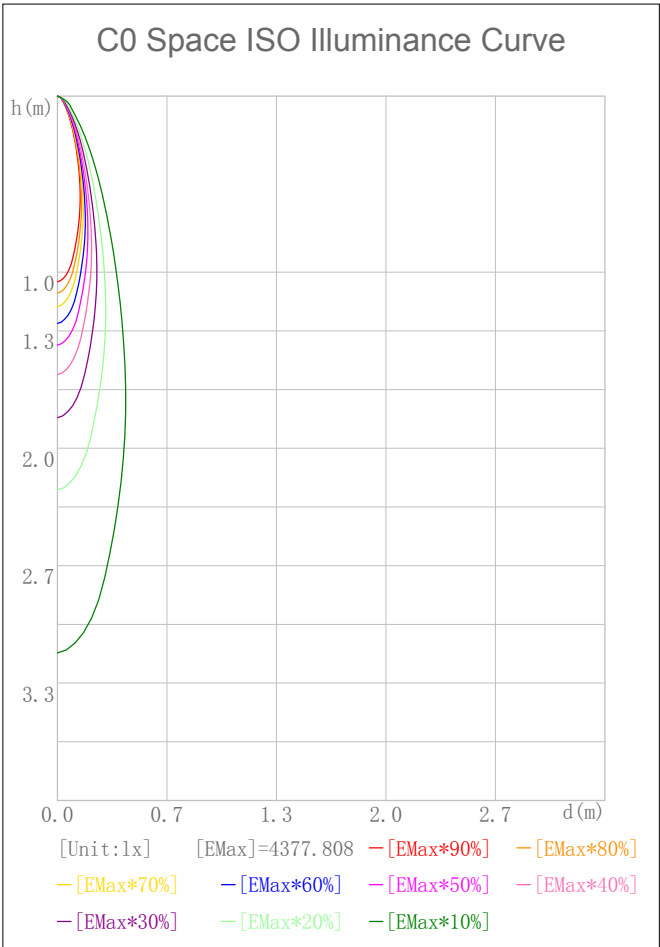
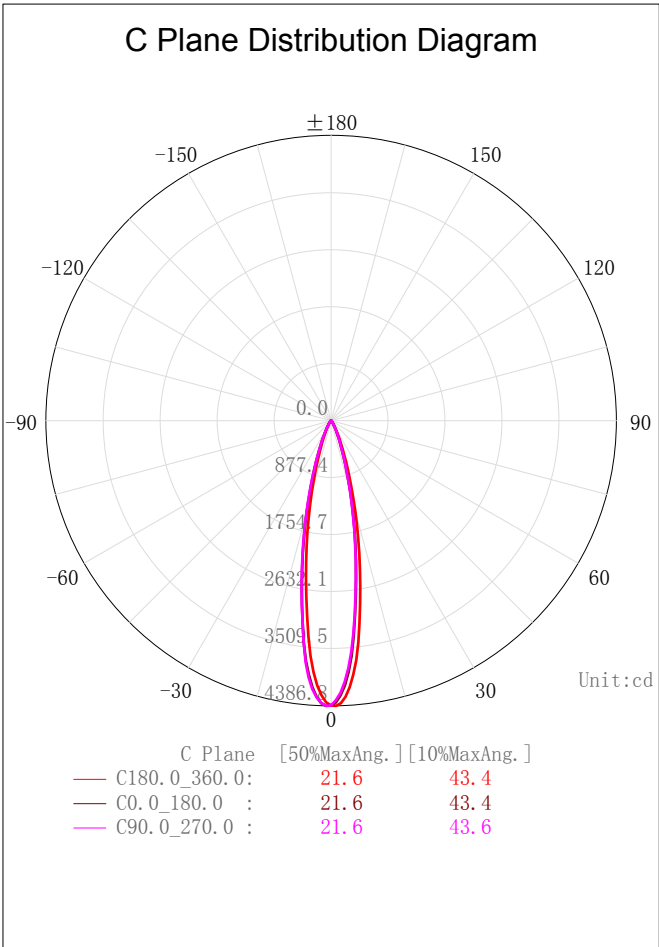
Indoor Luminaire Photometric Data

Description Information

| | | |
|---|-------------------------|-----------------------|
| Luminary Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Date: 2019/12/03 |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Shld.Ang(°): | Test Machine:GON-2000 |
| Test Lab: QUality peatment | Frequency (Hz): | Lamp CCT(K): Ra: |
| Lum. Size (W*L*H):0.050m*0.050m*0.060m | 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): 850.000 | Luminary Flux(lm): 850.004 | Field Angle(10%Imax): 43.4(°) |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 850.004lm 100.00% |
| Rated Voltage(V): | Luminary EER(lm/W): 92.342 | Up Lumens&Percent: 0.000lm 0.00% |
| Tested Power(W): 9.205 | Max. Candela(cd): 4386.830 | S/MH: C0_a180=0.366 C90_270=0.367 |
| Lamps' Inside: 1 | Max Cand@Ang. (°): C=180.0 γ=1.0 | CIE Type: Semi-Direct |
| Tested Electrics (V, A, pf):241.4, 0.041, 0.921 | Beam Angle(50%Imax): 21.6(°) | ErP Φ use(90°): 836.414lm |
| Lamp Size(W*L*H):0.050m*0.050m*0.060m | Left=-10.1°, Right=11.6° | IRF(%): 1121.727 |



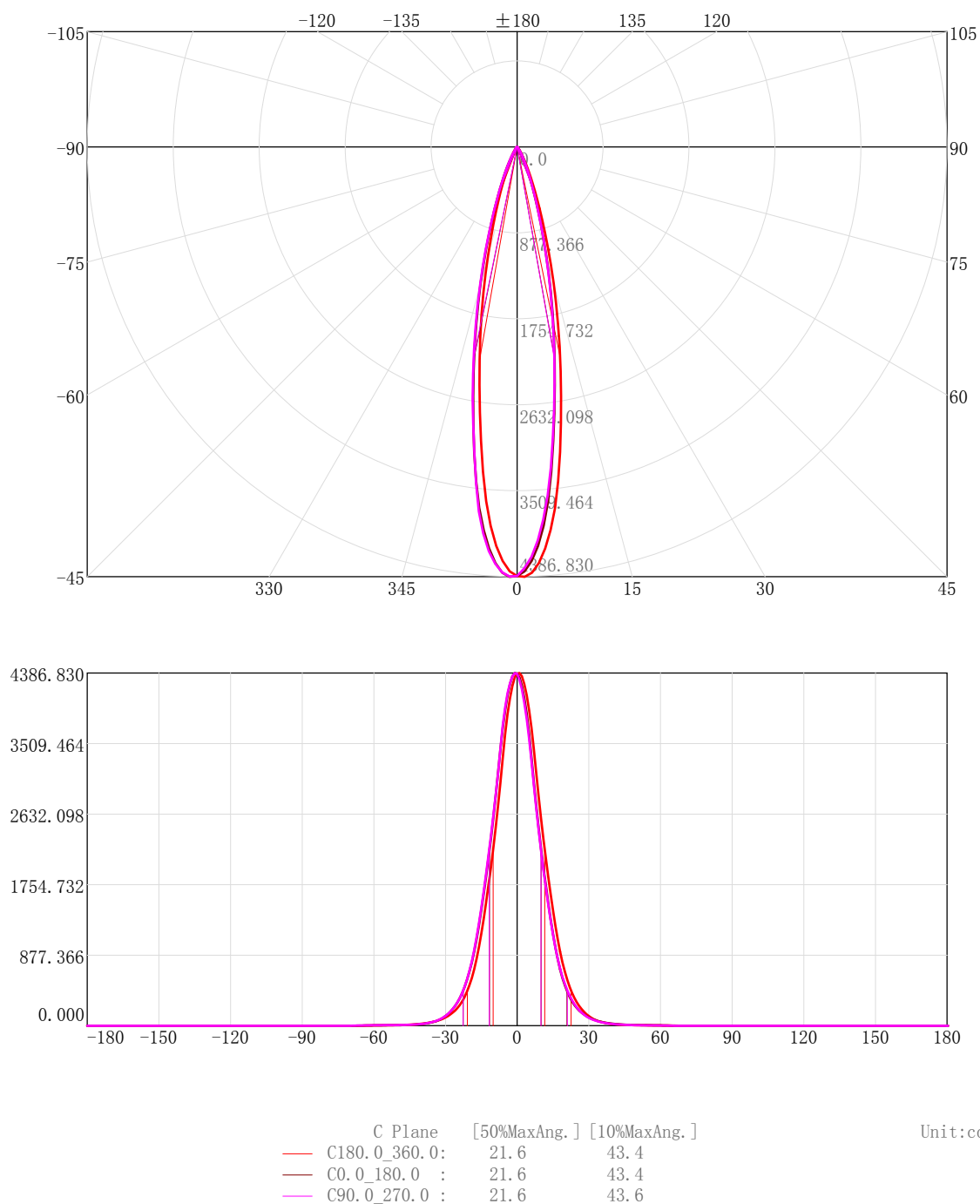
IES Indoor Report

Photometric Filename:MD10-09-XX-01 4000K RA90 24D.IES

2D Plane Light Intensity Distribution Curve

| | | |
|---|-----------------------|----------------------------|
| Lum. Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality peatment |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/12/03 |

C Plane Distribution Diagram



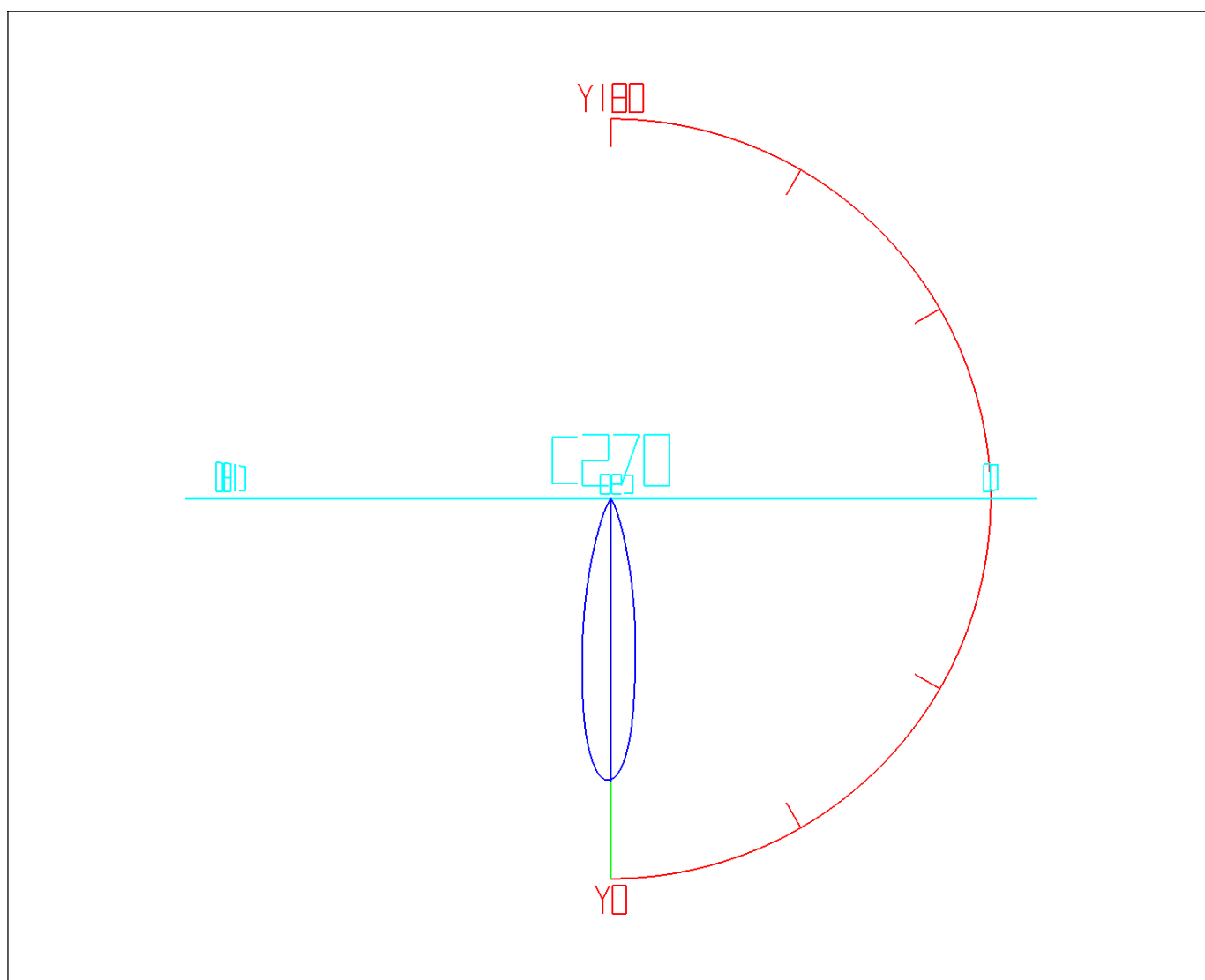
IES Indoor Report

Photometric Filename:MD10-09-XX-01 4000K RA90 24D.IES

3D Light Intensity Distribution Modal

| | | |
|---|-----------------------|----------------------------|
| Lum. Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality peatment |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/12/03 |

3D Light Intensity Distribution Modal



Curves: 3D Model — Fixture — Vert. HUD — Hori. HUD —
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

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 | 4.18 | 4.18 | 0.49 | 0.49 | 47.0-48.0 | 0.80 | 840.42 | 0.09 | 98.87 |
| 1.0-2.0 | 12.38 | 16.56 | 1.46 | 1.95 | 48.0-49.0 | 0.76 | 841.18 | 0.09 | 98.96 |
| 2.0-3.0 | 20.16 | 36.72 | 2.37 | 4.32 | 49.0-50.0 | 0.72 | 841.89 | 0.08 | 99.05 |
| 3.0-4.0 | 27.23 | 63.95 | 3.20 | 7.52 | 50.0-51.0 | 0.68 | 842.58 | 0.08 | 99.13 |
| 4.0-5.0 | 33.35 | 97.30 | 3.92 | 11.45 | 51.0-52.0 | 0.66 | 843.23 | 0.08 | 99.20 |
| 5.0-6.0 | 38.29 | 135.58 | 4.50 | 15.95 | 52.0-53.0 | 0.63 | 843.87 | 0.07 | 99.28 |
| 6.0-7.0 | 41.83 | 177.41 | 4.92 | 20.87 | 53.0-54.0 | 0.61 | 844.48 | 0.07 | 99.35 |
| 7.0-8.0 | 44.04 | 221.46 | 5.18 | 26.05 | 54.0-55.0 | 0.60 | 845.08 | 0.07 | 99.42 |
| 8.0-9.0 | 45.26 | 266.72 | 5.32 | 31.38 | 55.0-56.0 | 0.58 | 845.66 | 0.07 | 99.49 |
| 9.0-10.0 | 45.71 | 312.42 | 5.38 | 36.76 | 56.0-57.0 | 0.56 | 846.21 | 0.07 | 99.55 |
| 10.0-11.0 | 45.42 | 357.85 | 5.34 | 42.10 | 57.0-58.0 | 0.54 | 846.75 | 0.06 | 99.62 |
| 11.0-12.0 | 44.43 | 402.28 | 5.23 | 47.33 | 58.0-59.0 | 0.51 | 847.26 | 0.06 | 99.68 |
| 12.0-13.0 | 42.84 | 445.12 | 5.04 | 52.37 | 59.0-60.0 | 0.48 | 847.74 | 0.06 | 99.73 |
| 13.0-14.0 | 40.74 | 485.86 | 4.79 | 57.16 | 60.0-61.0 | 0.44 | 848.18 | 0.05 | 99.79 |
| 14.0-15.0 | 38.21 | 524.07 | 4.50 | 61.66 | 61.0-62.0 | 0.40 | 848.58 | 0.05 | 99.83 |
| 15.0-16.0 | 35.37 | 559.44 | 4.16 | 65.82 | 62.0-63.0 | 0.36 | 848.93 | 0.04 | 99.87 |
| 16.0-17.0 | 32.36 | 591.81 | 3.81 | 69.62 | 63.0-64.0 | 0.31 | 849.24 | 0.04 | 99.91 |
| 17.0-18.0 | 29.33 | 621.13 | 3.45 | 73.07 | 64.0-65.0 | 0.25 | 849.49 | 0.03 | 99.94 |
| 18.0-19.0 | 26.38 | 647.51 | 3.10 | 76.18 | 65.0-66.0 | 0.20 | 849.69 | 0.02 | 99.96 |
| 19.0-20.0 | 23.58 | 671.10 | 2.77 | 78.95 | 66.0-67.0 | 0.14 | 849.83 | 0.02 | 99.98 |
| 20.0-21.0 | 20.98 | 692.07 | 2.47 | 81.42 | 67.0-68.0 | 0.09 | 849.91 | 0.01 | 99.99 |
| 21.0-22.0 | 18.59 | 710.66 | 2.19 | 83.61 | 68.0-69.0 | 0.05 | 849.96 | 0.01 | 100.00 |
| 22.0-23.0 | 16.44 | 727.10 | 1.93 | 85.54 | 69.0-70.0 | 0.03 | 849.99 | 0.00 | 100.00 |
| 23.0-24.0 | 14.52 | 741.61 | 1.71 | 87.25 | 70.0-71.0 | 0.01 | 850.00 | 0.00 | 100.00 |
| 24.0-25.0 | 12.79 | 754.40 | 1.50 | 88.75 | 71.0-72.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 25.0-26.0 | 11.25 | 765.65 | 1.32 | 90.08 | 72.0-73.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 26.0-27.0 | 9.87 | 775.52 | 1.16 | 91.24 | 73.0-74.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 27.0-28.0 | 8.63 | 784.16 | 1.02 | 92.25 | 74.0-75.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 28.0-29.0 | 7.53 | 791.69 | 0.89 | 93.14 | 75.0-76.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 29.0-30.0 | 6.56 | 798.25 | 0.77 | 93.91 | 76.0-77.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 30.0-31.0 | 5.70 | 803.95 | 0.67 | 94.58 | 77.0-78.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 31.0-32.0 | 4.96 | 808.92 | 0.58 | 95.17 | 78.0-79.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 32.0-33.0 | 4.32 | 813.24 | 0.51 | 95.67 | 79.0-80.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 33.0-34.0 | 3.77 | 817.01 | 0.44 | 96.12 | 80.0-81.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 34.0-35.0 | 3.29 | 820.30 | 0.39 | 96.51 | 81.0-82.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 35.0-36.0 | 2.88 | 823.18 | 0.34 | 96.84 | 82.0-83.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 36.0-37.0 | 2.53 | 825.71 | 0.30 | 97.14 | 83.0-84.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 37.0-38.0 | 2.22 | 827.93 | 0.26 | 97.40 | 84.0-85.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 38.0-39.0 | 1.95 | 829.88 | 0.23 | 97.63 | 85.0-86.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 39.0-40.0 | 1.72 | 831.60 | 0.20 | 97.84 | 86.0-87.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 40.0-41.0 | 1.53 | 833.13 | 0.18 | 98.02 | 87.0-88.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 41.0-42.0 | 1.36 | 834.50 | 0.16 | 98.18 | 88.0-89.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 42.0-43.0 | 1.22 | 835.72 | 0.14 | 98.32 | 89.0-90.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 43.0-44.0 | 1.11 | 836.82 | 0.13 | 98.45 | 90.0-91.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 44.0-45.0 | 1.01 | 837.83 | 0.12 | 98.57 | 91.0-92.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 45.0-46.0 | 0.93 | 838.76 | 0.11 | 98.68 | 92.0-93.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 46.0-47.0 | 0.86 | 839.62 | 0.10 | 98.78 | 93.0-94.0 | 0.00 | 850.00 | 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 | 850.00 | 0.00 | 100.00 | 141.0-142.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 95.0-96.0 | 0.00 | 850.00 | 0.00 | 100.00 | 142.0-143.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 96.0-97.0 | 0.00 | 850.00 | 0.00 | 100.00 | 143.0-144.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 97.0-98.0 | 0.00 | 850.00 | 0.00 | 100.00 | 144.0-145.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 98.0-99.0 | 0.00 | 850.00 | 0.00 | 100.00 | 145.0-146.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 99.0-100.0 | 0.00 | 850.00 | 0.00 | 100.00 | 146.0-147.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 100.0-101.0 | 0.00 | 850.00 | 0.00 | 100.00 | 147.0-148.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 101.0-102.0 | 0.00 | 850.00 | 0.00 | 100.00 | 148.0-149.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 102.0-103.0 | 0.00 | 850.00 | 0.00 | 100.00 | 149.0-150.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 103.0-104.0 | 0.00 | 850.00 | 0.00 | 100.00 | 150.0-151.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 104.0-105.0 | 0.00 | 850.00 | 0.00 | 100.00 | 151.0-152.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 105.0-106.0 | 0.00 | 850.00 | 0.00 | 100.00 | 152.0-153.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 106.0-107.0 | 0.00 | 850.00 | 0.00 | 100.00 | 153.0-154.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 107.0-108.0 | 0.00 | 850.00 | 0.00 | 100.00 | 154.0-155.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 108.0-109.0 | 0.00 | 850.00 | 0.00 | 100.00 | 155.0-156.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 109.0-110.0 | 0.00 | 850.00 | 0.00 | 100.00 | 156.0-157.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 110.0-111.0 | 0.00 | 850.00 | 0.00 | 100.00 | 157.0-158.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 111.0-112.0 | 0.00 | 850.00 | 0.00 | 100.00 | 158.0-159.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 112.0-113.0 | 0.00 | 850.00 | 0.00 | 100.00 | 159.0-160.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 113.0-114.0 | 0.00 | 850.00 | 0.00 | 100.00 | 160.0-161.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 114.0-115.0 | 0.00 | 850.00 | 0.00 | 100.00 | 161.0-162.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 115.0-116.0 | 0.00 | 850.00 | 0.00 | 100.00 | 162.0-163.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 116.0-117.0 | 0.00 | 850.00 | 0.00 | 100.00 | 163.0-164.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 117.0-118.0 | 0.00 | 850.00 | 0.00 | 100.00 | 164.0-165.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 118.0-119.0 | 0.00 | 850.00 | 0.00 | 100.00 | 165.0-166.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 119.0-120.0 | 0.00 | 850.00 | 0.00 | 100.00 | 166.0-167.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 120.0-121.0 | 0.00 | 850.00 | 0.00 | 100.00 | 167.0-168.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 121.0-122.0 | 0.00 | 850.00 | 0.00 | 100.00 | 168.0-169.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 122.0-123.0 | 0.00 | 850.00 | 0.00 | 100.00 | 169.0-170.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 123.0-124.0 | 0.00 | 850.00 | 0.00 | 100.00 | 170.0-171.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 124.0-125.0 | 0.00 | 850.00 | 0.00 | 100.00 | 171.0-172.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 125.0-126.0 | 0.00 | 850.00 | 0.00 | 100.00 | 172.0-173.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 126.0-127.0 | 0.00 | 850.00 | 0.00 | 100.00 | 173.0-174.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 127.0-128.0 | 0.00 | 850.00 | 0.00 | 100.00 | 174.0-175.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 128.0-129.0 | 0.00 | 850.00 | 0.00 | 100.00 | 175.0-176.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 129.0-130.0 | 0.00 | 850.00 | 0.00 | 100.00 | 176.0-177.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 130.0-131.0 | 0.00 | 850.00 | 0.00 | 100.00 | 177.0-178.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 131.0-132.0 | 0.00 | 850.00 | 0.00 | 100.00 | 178.0-179.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 132.0-133.0 | 0.00 | 850.00 | 0.00 | 100.00 | 179.0-180.0 | 0.00 | 850.00 | 0.00 | 100.00 |
| 133.0-134.0 | 0.00 | 850.00 | 0.00 | 100.00 | | | | | |
| 134.0-135.0 | 0.00 | 850.00 | 0.00 | 100.00 | | | | | |
| 135.0-136.0 | 0.00 | 850.00 | 0.00 | 100.00 | | | | | |
| 136.0-137.0 | 0.00 | 850.00 | 0.00 | 100.00 | | | | | |
| 137.0-138.0 | 0.00 | 850.00 | 0.00 | 100.00 | | | | | |
| 138.0-139.0 | 0.00 | 850.00 | 0.00 | 100.00 | | | | | |
| 139.0-140.0 | 0.00 | 850.00 | 0.00 | 100.00 | | | | | |
| 140.0-141.0 | 0.00 | 850.00 | 0.00 | 100.00 | | | | | |

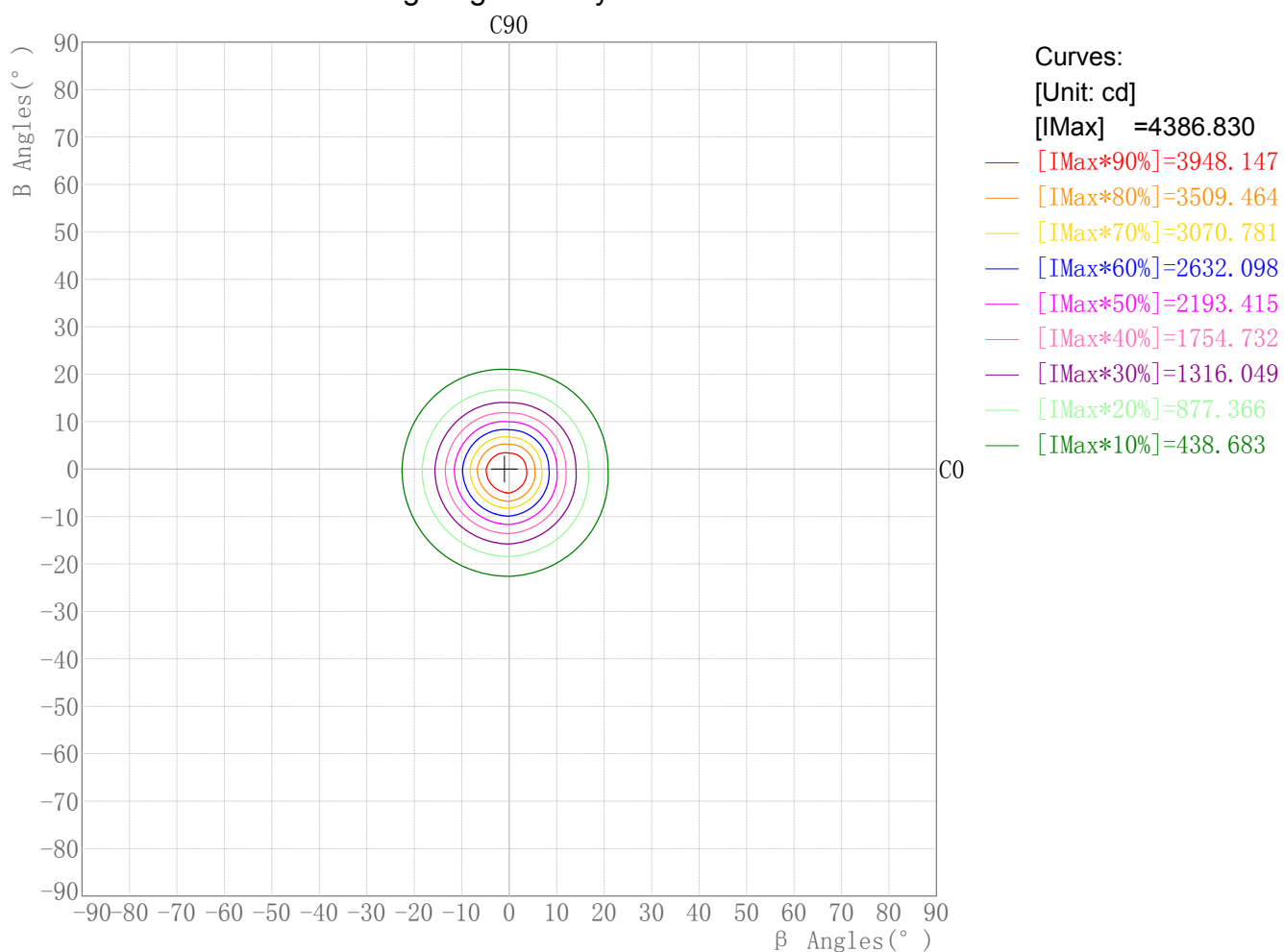
IES Indoor Report

Photometric Filename:MD10-09-XX-01 4000K RA90 24D.IES

Rectangle ISO Lighting Intensity Diagram

| | | |
|---|-----------------------|----------------------------|
| Lum. Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality peatment |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/12/03 |

ISO Lighting Intensity Curve



Maximum Light Intensity(cd): 4386.83

Maximum Cand.@Angle: H=-1.0°,V=0.0°

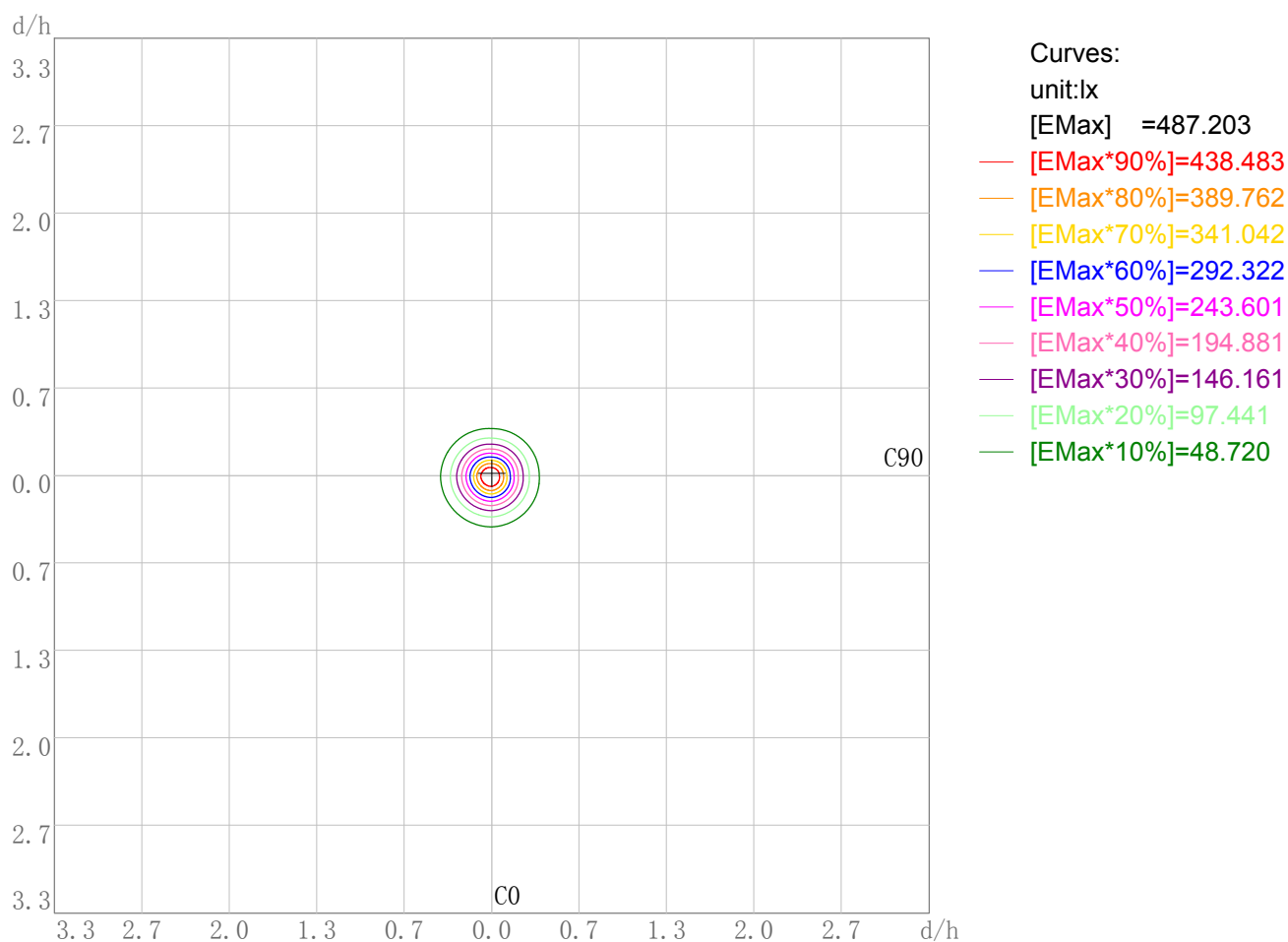
IES Indoor Report

Photometric Filename:MD10-09-XX-01 4000K RA90 24D.IES

Plane ISO-Illuminance Diagram

| | | |
|---|-----------------------|----------------------------|
| Lum. Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality peatment |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/12/03 |

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

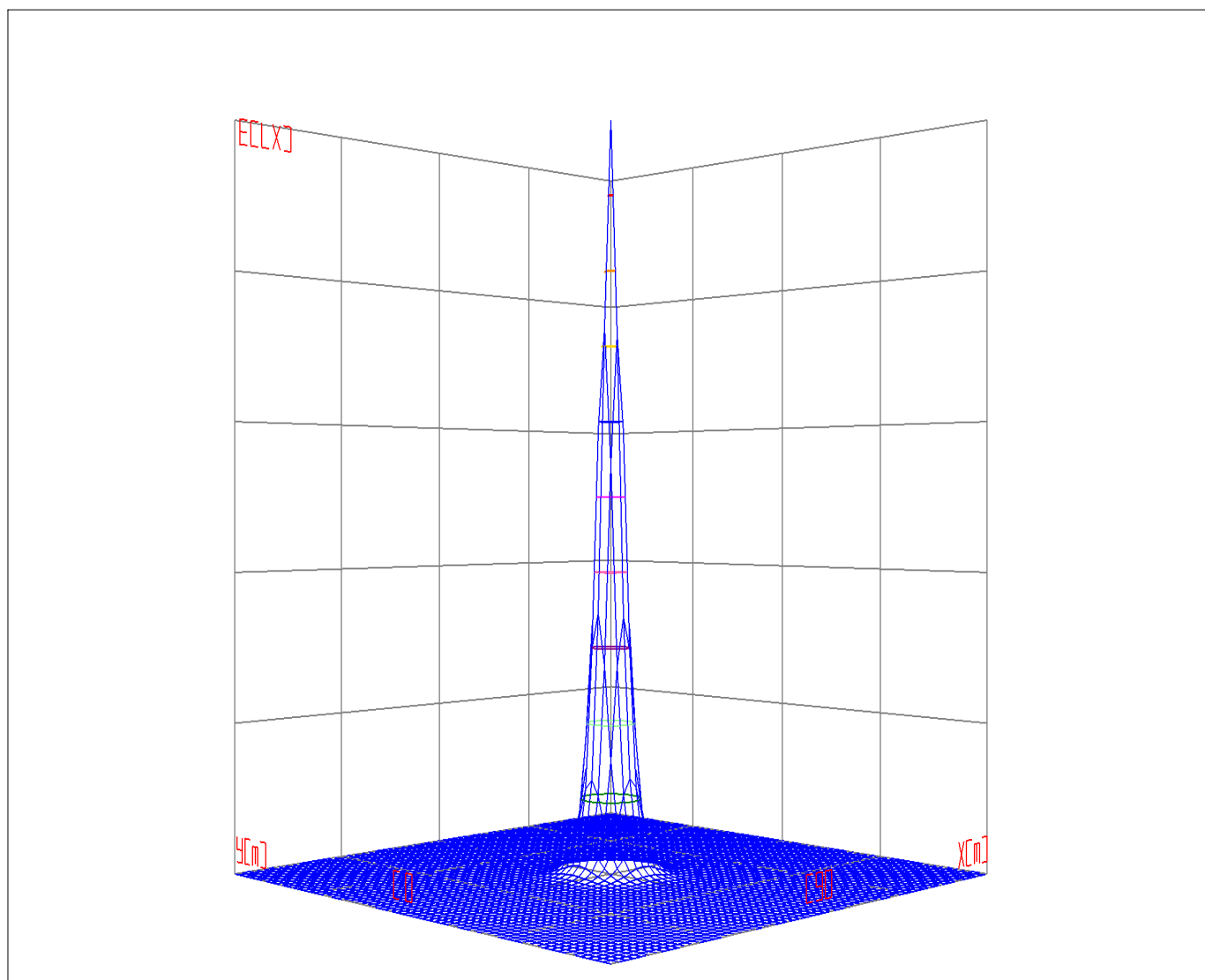
Working Plane Maximum Illuminance(lx): 487.20

Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

3D Plane ISO Illuminance Diagram

| | | |
|---|-----------------------|----------------------------|
| Lum. Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality peatment |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/12/03 |

3D Plane Illuminance Modal

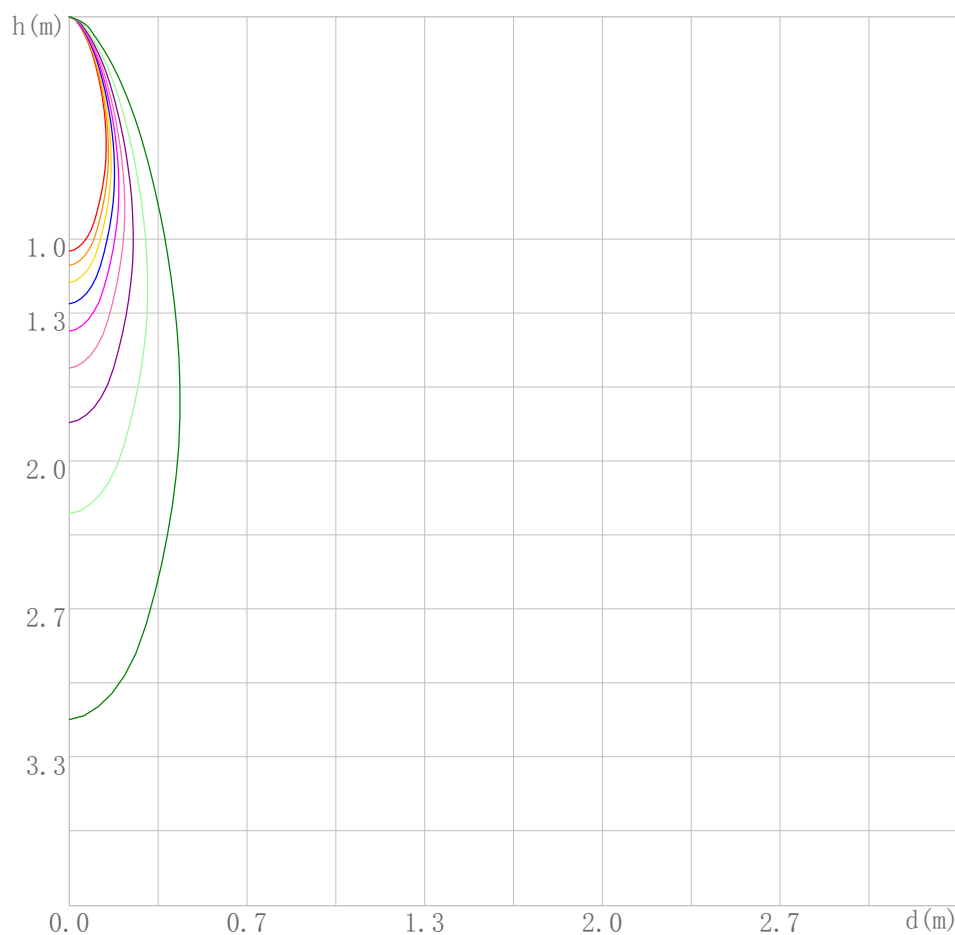


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
 View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

| | | |
|---|-----------------------|----------------------------|
| Lum. Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality peatment |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/12/03 |

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =4377.808

— [EMax*90%]=3940.027

— [EMax*80%]=3502.246

— [EMax*70%]=3064.466

— [EMax*60%]=2626.685

— [EMax*50%]=2188.904

— [EMax*40%]=1751.123

— [EMax*30%]=1313.342

— [EMax*20%]=875.562

— [EMax*10%]=437.781

Space Plane Maximum Illuminance and @Angle:4377.81lx,0.0deg

Plane Maximum Lighting Intensity and @Angle:4377.808cd,0deg

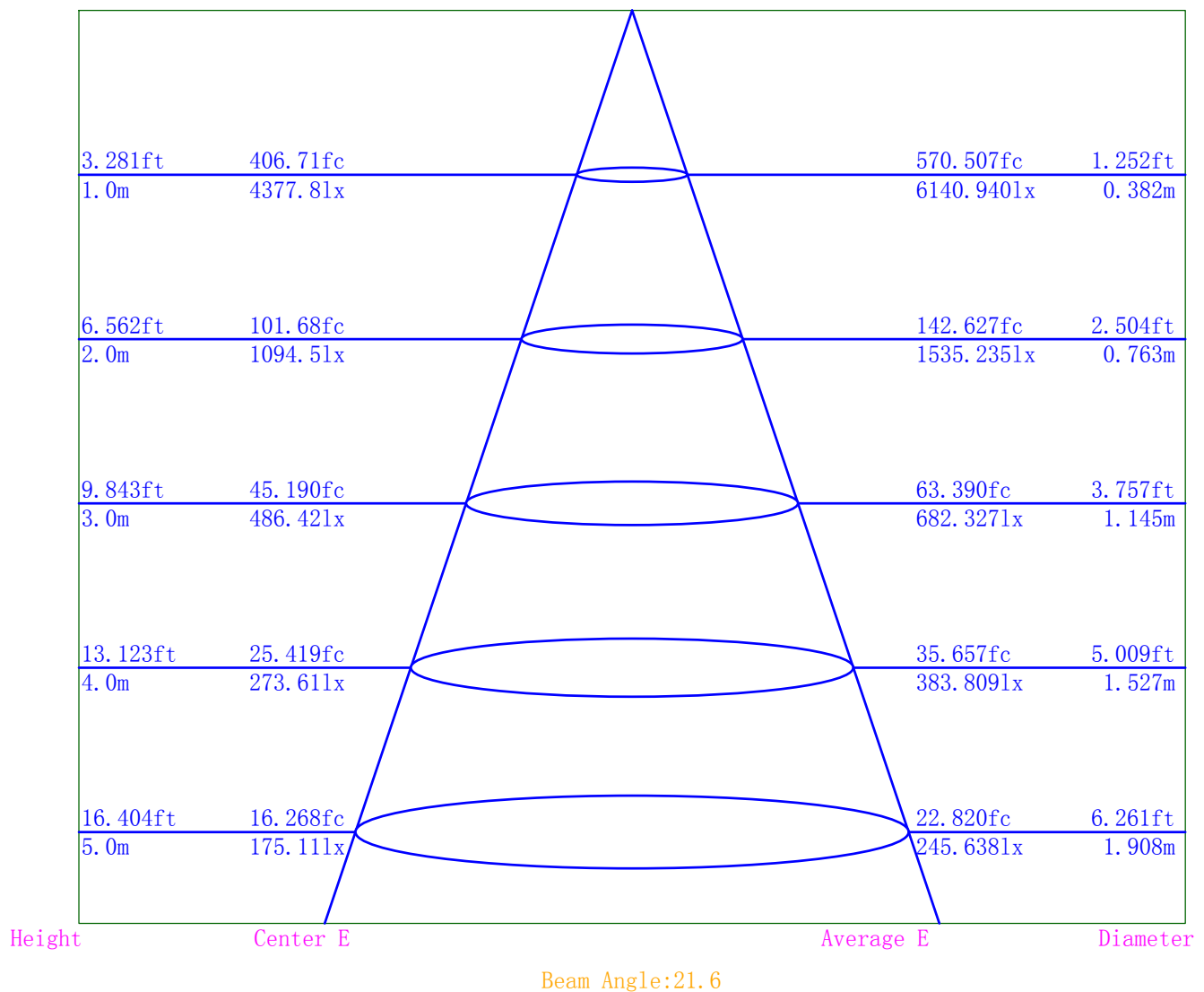
IES Indoor Report

Photometric Filename:MD10-09-XX-01 4000K RA90 24D.IES

Illuminance-Distance Diagram

| | | |
|---|-----------------------|----------------------------|
| Lum. Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality peatment |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/12/03 |

Illuminance-Distance Curve



IES Indoor Report

Photometric Filename:MD10-09-XX-01 4000K RA90 24D.IES

Indoor Luminance Limiting Curves

| | | |
|---|-----------------------|----------------------------|
| Lum. Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catalog: LED | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality peatment |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/12/03 |

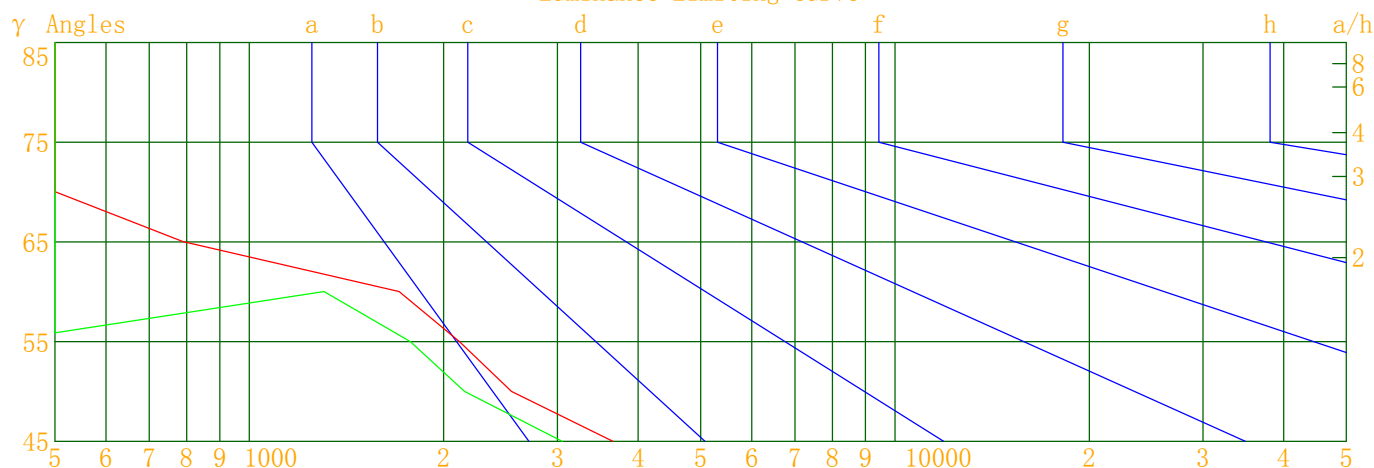
Glare Grade Table

| 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 | 3658 | 2547 | 2114 | 1706 | 789 | 0 | 0 | 0 | 0 |
| C90 | 3053 | 2154 | 1775 | 1305 | 410 | 0 | 0 | 0 | 0 |

Luminance Limiting Curve



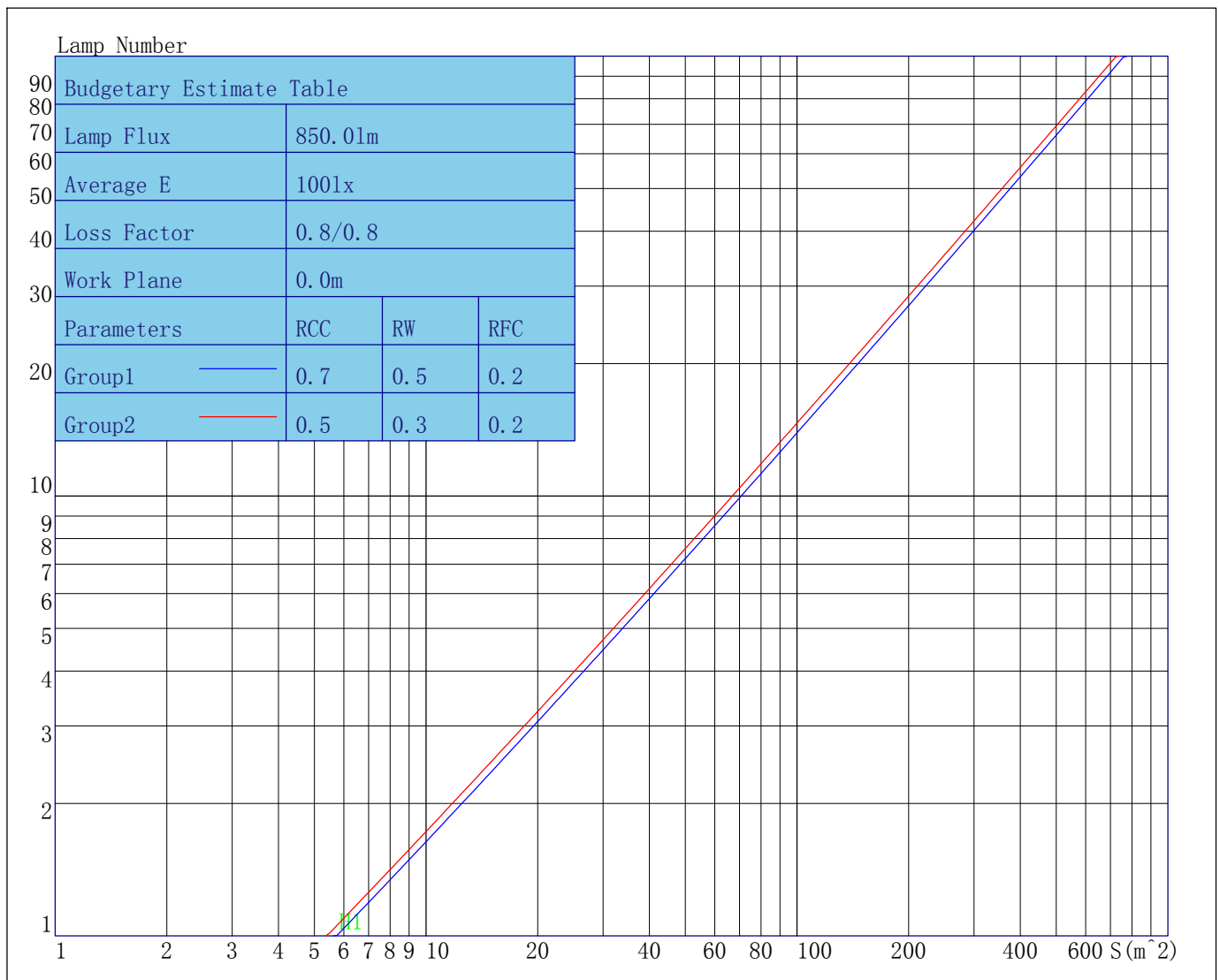
Luminous Size: Length(m)=0.050 Width(m)=0.050 Height(m)=0.060 Area(m^2)=0.005500
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

IES Indoor Report

Photometric Filename:MD10-09-XX-01 4000K RA90 24D.IES

Indoor Budgetary Estimate Table

| | | |
|---|-----------------------|----------------------------|
| Lum. Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality peatment |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/12/03 |



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8
Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8
Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

Indoor Coefficient of Utilization Table

| | | |
|---|-----------------------|----------------------------|
| Lum. Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: QQualty peatment |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/12/03 |

| 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 | 113 | 111 | 109 | 108 | 107 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 |
| 2 | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99 | 100 | 98 | 97 | 97 | 96 | 95 | 93 |
| 3 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 96 | 99 | 96 | 94 | 97 | 95 | 93 | 95 | 93 | 91 | 90 |
| 4 | 104 | 99 | 95 | 92 | 103 | 98 | 94 | 91 | 96 | 93 | 90 | 94 | 91 | 89 | 92 | 90 | 88 | 87 |
| 5 | 101 | 95 | 91 | 88 | 100 | 94 | 91 | 88 | 93 | 89 | 87 | 91 | 88 | 86 | 90 | 87 | 86 | 84 |
| 6 | 98 | 92 | 88 | 85 | 97 | 91 | 87 | 85 | 90 | 87 | 84 | 89 | 86 | 83 | 88 | 85 | 83 | 82 |
| 7 | 95 | 89 | 85 | 82 | 94 | 88 | 84 | 82 | 87 | 84 | 81 | 86 | 83 | 81 | 85 | 83 | 81 | 80 |
| 8 | 93 | 86 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 79 | 84 | 81 | 79 | 83 | 80 | 78 | 77 |
| 9 | 90 | 84 | 80 | 77 | 90 | 83 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 81 | 78 | 76 | 75 |
| 10 | 88 | 81 | 78 | 75 | 87 | 81 | 77 | 75 | 80 | 77 | 75 | 80 | 77 | 74 | 79 | 76 | 74 | 73 |

Unified Glare Rating Table

| | | |
|---|-----------------------|----------------------------|
| Lum. Name: MD10-09-XX-01 4000K RA90 24D | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: QQualty peatment |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/12/03 |

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 | 8.0 | 9.0 | 8.4 | 9.3 | 9.6 | 7.3 | 8.2 | 7.7 | 8.5 | 8.9 |
| | 7.9 | 8.7 | 8.3 | 9.0 | 9.4 | 7.1 | 7.9 | 7.5 | 8.2 | 8.6 |
| | 7.8 | 8.5 | 8.2 | 8.9 | 9.3 | 7.0 | 7.7 | 7.4 | 8.1 | 8.5 |
| | 7.7 | 8.3 | 8.1 | 8.7 | 9.1 | 6.9 | 7.6 | 7.3 | 7.9 | 8.3 |
| | 7.6 | 8.2 | 8.0 | 8.6 | 9.0 | 6.8 | 7.5 | 7.3 | 7.9 | 8.3 |
| | 7.5 | 8.1 | 8.0 | 8.5 | 8.9 | 6.8 | 7.4 | 7.2 | 7.8 | 8.2 |
| X=4H Y=2H | 7.9 | 8.7 | 8.3 | 9.0 | 9.4 | 7.1 | 7.9 | 7.6 | 8.2 | 8.6 |
| | 7.7 | 8.3 | 8.2 | 8.7 | 9.2 | 6.9 | 7.5 | 7.3 | 7.9 | 8.3 |
| | 7.6 | 8.1 | 8.0 | 8.6 | 9.0 | 6.8 | 7.3 | 7.2 | 7.8 | 8.2 |
| | 7.5 | 7.9 | 8.0 | 8.4 | 8.9 | 6.7 | 7.1 | 7.2 | 7.6 | 8.1 |
| | 7.4 | 7.8 | 7.9 | 8.3 | 8.8 | 6.6 | 7.0 | 7.1 | 7.5 | 8.0 |
| | 7.3 | 7.7 | 7.8 | 8.2 | 8.7 | 6.5 | 6.9 | 7.0 | 7.4 | 7.9 |
| X=8H Y=4H | 7.4 | 7.8 | 7.9 | 8.3 | 8.8 | 6.6 | 7.0 | 7.1 | 7.5 | 8.0 |
| | 7.3 | 7.6 | 7.8 | 8.1 | 8.6 | 6.5 | 6.8 | 7.0 | 7.3 | 7.8 |
| | 7.2 | 7.5 | 7.7 | 8.0 | 8.5 | 6.4 | 6.7 | 6.9 | 7.2 | 7.7 |
| | 7.1 | 7.4 | 7.7 | 7.9 | 8.5 | 6.3 | 6.6 | 6.9 | 7.1 | 7.7 |
| X=12H Y=4H | 7.3 | 7.7 | 7.8 | 8.2 | 8.7 | 6.5 | 6.9 | 7.0 | 7.4 | 7.9 |
| | 7.2 | 7.5 | 7.7 | 8.0 | 8.5 | 6.4 | 6.7 | 6.9 | 7.2 | 7.7 |
| | 7.1 | 7.4 | 7.7 | 7.9 | 8.5 | 6.3 | 6.6 | 6.9 | 7.1 | 7.7 |
| 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 | 8.2/0.0 | | | | | 8.8/0.0 | | | | |
| Reduced UGR Table: | | | | | | | | | | |
| Nordic Standard Table: | BK0 | | | | | BK0 | | | | |
| Correction Value | 0.1 | | | | | 0.1 | | | | |

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 | 4377.81 | 4377.81 | 4377.81 | 4377.81 |
| γ 1.0 | 4332.14 | 4298.46 | 4386.83 | 4384.63 |
| γ 2.0 | 4226.54 | 4185.89 | 4347.48 | 4344.50 |
| γ 3.0 | 4076.83 | 4020.57 | 4251.32 | 4259.56 |
| γ 4.0 | 3875.68 | 3812.79 | 4107.63 | 4135.28 |
| γ 5.0 | 3629.21 | 3567.74 | 3923.44 | 3959.24 |
| γ 6.0 | 3331.27 | 3287.99 | 3704.00 | 3738.60 |
| γ 7.0 | 3022.09 | 2989.52 | 3436.66 | 3446.02 |
| γ 8.0 | 2734.81 | 2704.59 | 3143.99 | 3137.82 |
| γ 9.0 | 2460.39 | 2437.65 | 2855.69 | 2863.65 |
| γ 10.0 | 2206.53 | 2184.00 | 2583.66 | 2611.91 |
| γ 11.0 | 1966.19 | 1942.98 | 2329.04 | 2359.50 |
| γ 12.0 | 1743.81 | 1718.33 | 2084.39 | 2113.80 |
| γ 13.0 | 1528.62 | 1508.89 | 1854.04 | 1887.15 |
| γ 14.0 | 1326.81 | 1315.50 | 1642.38 | 1667.92 |
| γ 15.0 | 1143.59 | 1134.43 | 1439.17 | 1463.39 |
| γ 16.0 | 977.66 | 975.26 | 1248.84 | 1274.05 |
| γ 17.0 | 830.10 | 832.28 | 1076.35 | 1098.72 |
| γ 18.0 | 702.98 | 710.75 | 922.13 | 941.63 |
| γ 19.0 | 593.53 | 606.66 | 787.64 | 800.12 |
| γ 20.0 | 501.96 | 516.37 | 669.67 | 677.52 |
| γ 21.0 | 424.05 | 438.31 | 568.26 | 573.28 |
| γ 22.0 | 357.76 | 372.02 | 481.96 | 484.35 |
| γ 23.0 | 303.65 | 316.49 | 407.98 | 409.44 |
| γ 24.0 | 258.97 | 268.46 | 345.09 | 345.47 |
| γ 25.0 | 221.09 | 227.42 | 291.30 | 292.45 |
| γ 26.0 | 189.73 | 192.46 | 245.48 | 246.60 |
| γ 27.0 | 162.99 | 162.70 | 205.86 | 207.52 |
| γ 28.0 | 140.14 | 137.88 | 172.64 | 174.15 |
| γ 29.0 | 120.39 | 116.22 | 144.77 | 145.67 |
| γ 30.0 | 103.56 | 98.62 | 120.51 | 121.89 |
| γ 31.0 | 89.20 | 84.45 | 100.29 | 101.46 |
| γ 32.0 | 76.94 | 72.19 | 83.57 | 84.84 |
| γ 33.0 | 66.78 | 61.83 | 69.46 | 71.17 |
| γ 34.0 | 57.90 | 53.29 | 57.96 | 59.72 |
| γ 35.0 | 50.36 | 45.78 | 48.65 | 50.45 |
| γ 36.0 | 43.87 | 39.47 | 40.90 | 42.74 |
| γ 37.0 | 38.23 | 34.13 | 34.25 | 36.36 |
| γ 38.0 | 33.51 | 29.50 | 28.97 | 30.99 |
| γ 39.0 | 29.34 | 25.44 | 24.56 | 26.58 |
| γ 40.0 | 25.67 | 22.01 | 21.05 | 22.98 |
| γ 41.0 | 22.56 | 19.18 | 18.22 | 19.97 |
| γ 42.0 | 20.00 | 16.87 | 15.82 | 17.44 |
| γ 43.0 | 17.74 | 14.88 | 13.77 | 15.58 |
| γ 44.0 | 15.84 | 13.24 | 12.20 | 13.93 |
| γ 45.0 | 14.23 | 11.87 | 10.87 | 12.82 |
| γ 46.0 | 12.80 | 10.82 | 9.83 | 11.65 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|-------|-------|--------|--------|
| γ 47.0 | 11.58 | 9.77 | 8.99 | 10.92 |
| γ 48.0 | 10.57 | 8.89 | 8.25 | 10.30 |
| γ 49.0 | 9.66 | 8.24 | 7.79 | 9.85 |
| γ 50.0 | 9.01 | 7.62 | 7.26 | 9.43 |
| γ 51.0 | 8.35 | 7.04 | 6.84 | 9.07 |
| γ 52.0 | 7.79 | 6.63 | 6.57 | 8.78 |
| γ 53.0 | 7.42 | 6.27 | 6.30 | 8.48 |
| γ 54.0 | 7.04 | 5.90 | 6.07 | 8.31 |
| γ 55.0 | 6.67 | 5.60 | 5.84 | 8.08 |
| γ 56.0 | 6.32 | 5.21 | 5.57 | 7.90 |
| γ 57.0 | 5.92 | 4.82 | 5.47 | 7.68 |
| γ 58.0 | 5.50 | 4.38 | 5.21 | 7.36 |
| γ 59.0 | 5.14 | 3.98 | 4.93 | 7.08 |
| γ 60.0 | 4.69 | 3.59 | 4.55 | 6.61 |
| γ 61.0 | 4.17 | 3.14 | 4.02 | 6.20 |
| γ 62.0 | 3.58 | 2.66 | 3.62 | 5.72 |
| γ 63.0 | 3.08 | 2.12 | 3.23 | 5.23 |
| γ 64.0 | 2.44 | 1.57 | 2.73 | 4.60 |
| γ 65.0 | 1.84 | 0.95 | 2.16 | 4.08 |
| γ 66.0 | 1.27 | 0.44 | 1.54 | 3.37 |
| γ 67.0 | 0.65 | 0.00 | 1.03 | 2.75 |
| γ 68.0 | 0.06 | 0.00 | 0.41 | 2.02 |
| γ 69.0 | 0.00 | 0.00 | 0.00 | 1.40 |
| γ 70.0 | 0.00 | 0.00 | 0.00 | 0.75 |
| γ 71.0 | 0.00 | 0.00 | 0.00 | 0.09 |
| γ 72.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 73.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 74.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 75.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 76.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 77.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 78.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 79.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 80.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 81.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 82.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 83.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 |
| γ 143.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 144.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 145.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 146.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 147.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 148.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 149.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 150.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 151.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 152.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 153.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 154.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 155.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 156.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 157.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 158.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 159.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 160.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 161.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 162.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 163.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 164.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 165.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 166.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 167.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 168.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 169.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 170.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 171.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 172.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 173.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 174.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 175.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 176.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 177.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 178.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 179.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 180.0 | 0.00 | 0.00 | 0.00 | 0.00 |