

IES Indoor Report

Photometric Filename:MD14-06-XX-01 3000K RA80 24D.IES

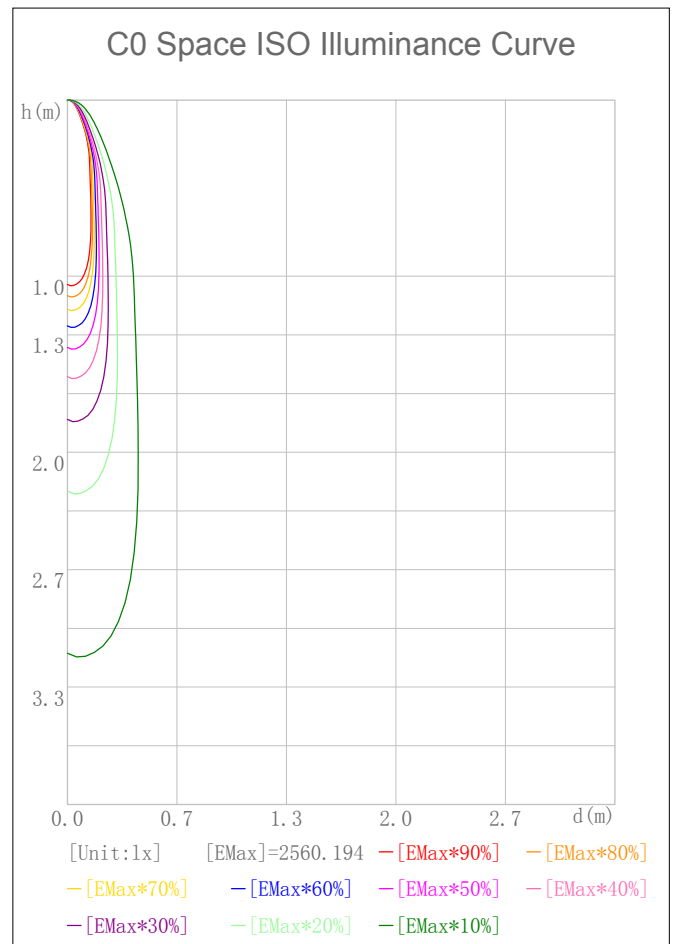
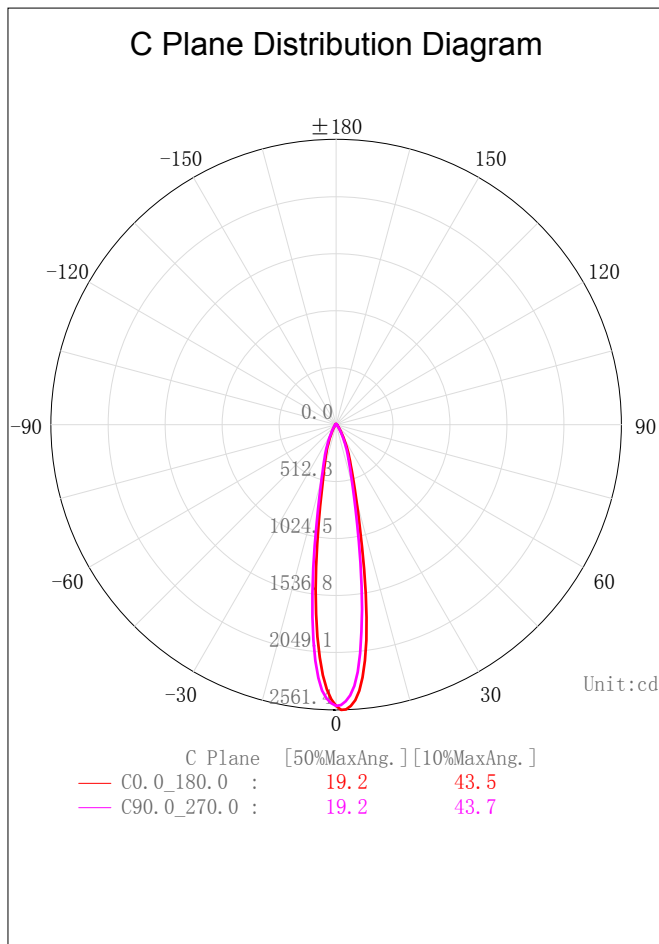
Indoor Luminaire Photometric Data

Description Information

| | | | |
|---|-------------------------|-----------------------|-----------------------|
| Luminary Name: MD14-06-XX-01 3000K RA80 24D | | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | | Lamp Catalog: LED | Test Date: 2020/05/06 |
| 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=90.0 γ=1.0 | Temp. (°C): 25 | Humidity(%): 50.0 |

Character Parameter

| Lamp Speciality Parameter | | Luminaire Speciality Parameter | |
|--|--------------------------------|---------------------------------------|--|
| Rated Flux(lm): 520.770 | Luminary Flux(lm): 520.775 | Field Angle(10%Imax): 43.5(°) | |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 502.555lm 96.50% | |
| Rated Voltage(V): | Luminary EER(lm/W): 92.797 | Up Lumens&Percent: 18.220lm 3.50% | |
| Tested Power(W): 5.612 | Max. Candela(cd): 2561.364 | S/MH: C0_a180=0.333 C90_270=0.329 | |
| Lamps' Inside: 1 | Max Cand@Ang. (°): C=0.0 γ=1.0 | CIE Type: Semi-Direct | |
| Tested Electrics (V, A, pf): 240.3, 0.029, 0.794 | Beam Angle (50%Imax): 19.2(°) | ErP φ use(90°): 453.014lm | |
| Lamp Size (W*L*H): 0.000m*0.000m*0.000m | Left=-8.0°, Right=11.2° | IRF(%): 1008.873 | |



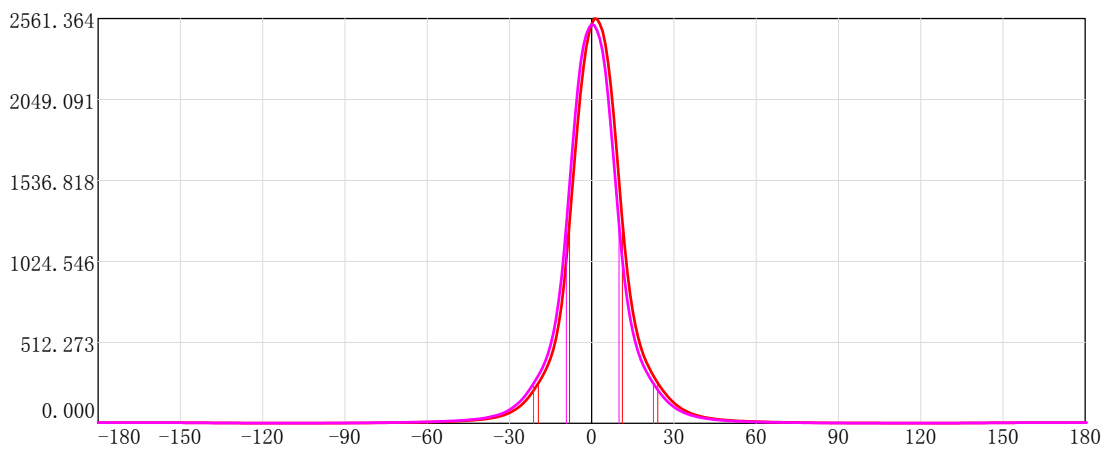
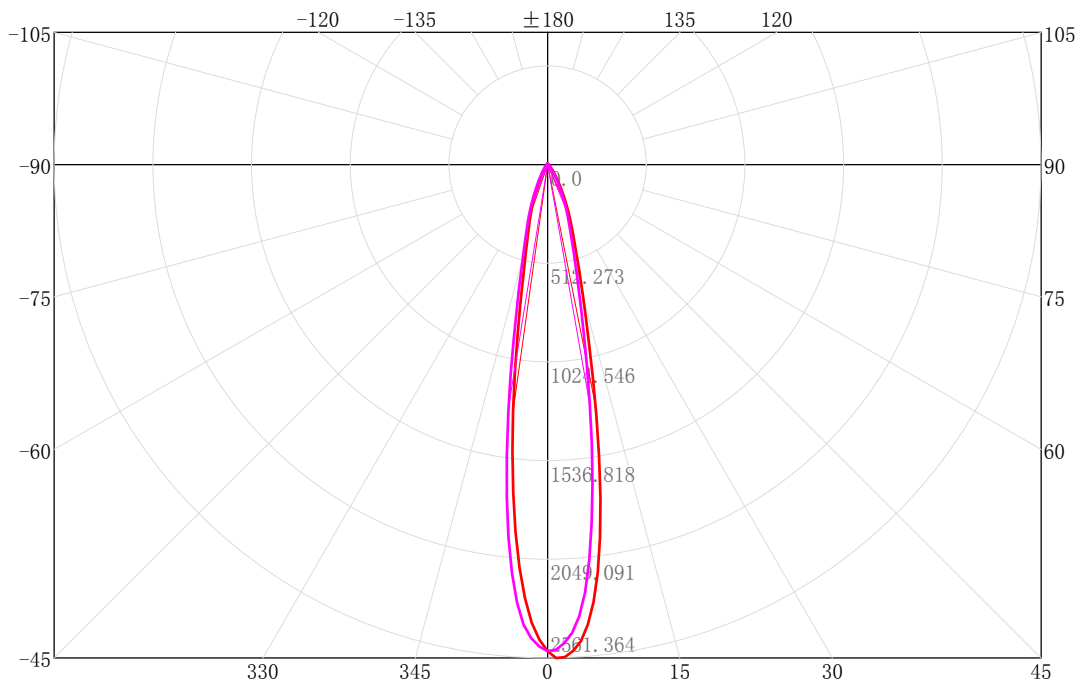
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2D Plane Light Intensity Distribution Curve

| | | |
|---|-----------------------|------------------------------|
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| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/05/06 |

C Plane Distribution Diagram



| C Plane | | [50%MaxAng.] | [10%MaxAng.] | Unit:cd |
|---------|-------------|--------------|--------------|---------|
| — | C0.0_180.0 | : 19.2 | 43.5 | |
| — | C90.0_270.0 | : 19.2 | 43.7 | |

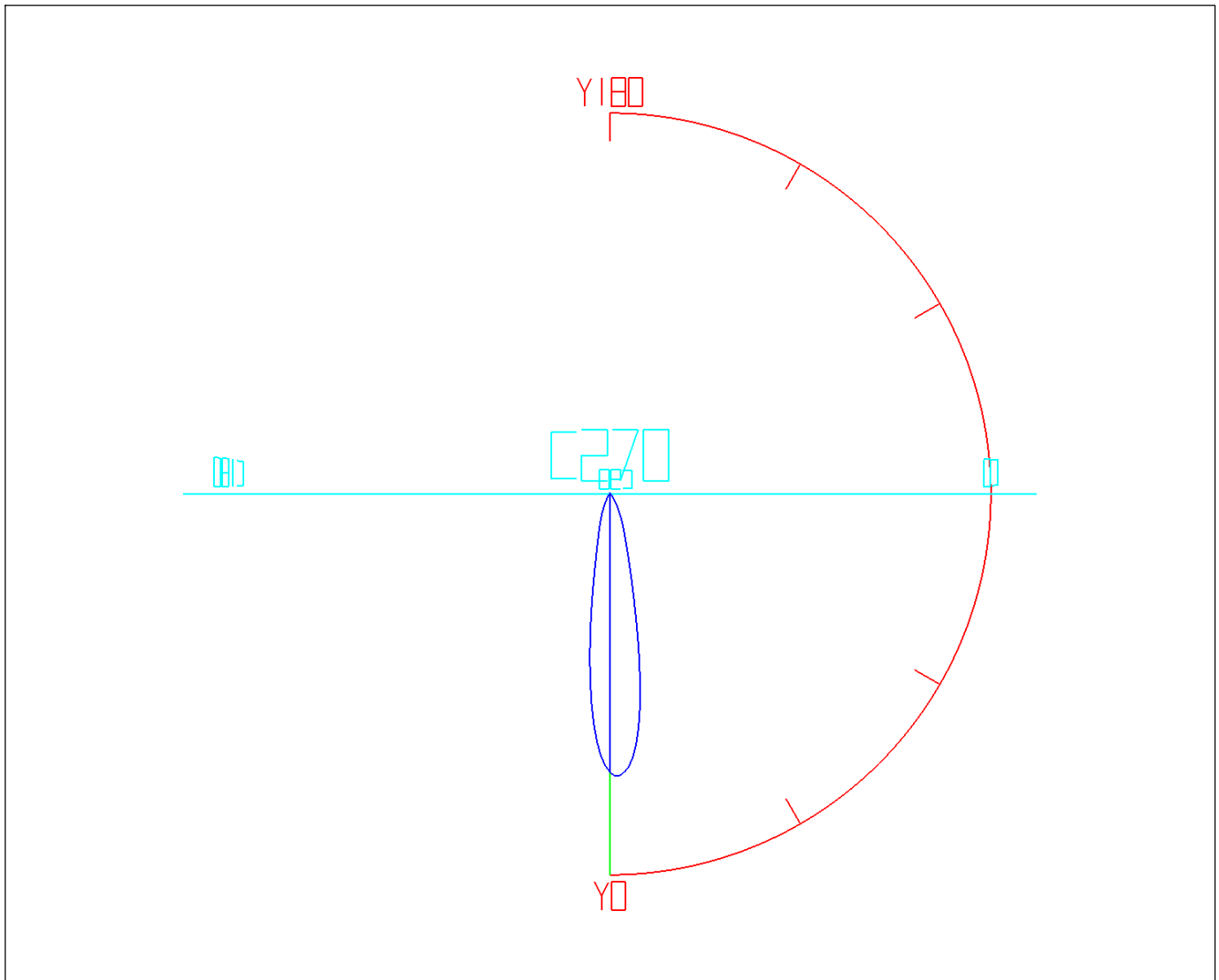
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3D Light Intensity Distribution Modal

| | | |
|---|-----------------------|------------------------------|
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| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/05/06 |

3D Light Intensity Distribution Modal



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

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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 | 2.41 | 2.41 | 0.46 | 0.46 | 47.0-48.0 | 1.58 | 471.21 | 0.30 | 90.48 |
| 1.0-2.0 | 7.15 | 9.56 | 1.37 | 1.84 | 48.0-49.0 | 1.51 | 472.72 | 0.29 | 90.77 |
| 2.0-3.0 | 11.65 | 21.21 | 2.24 | 4.07 | 49.0-50.0 | 1.44 | 474.15 | 0.28 | 91.05 |
| 3.0-4.0 | 15.74 | 36.95 | 3.02 | 7.10 | 50.0-51.0 | 1.37 | 475.52 | 0.26 | 91.31 |
| 4.0-5.0 | 19.22 | 56.17 | 3.69 | 10.79 | 51.0-52.0 | 1.31 | 476.84 | 0.25 | 91.56 |
| 5.0-6.0 | 21.89 | 78.06 | 4.20 | 14.99 | 52.0-53.0 | 1.26 | 478.09 | 0.24 | 91.80 |
| 6.0-7.0 | 23.65 | 101.71 | 4.54 | 19.53 | 53.0-54.0 | 1.20 | 479.30 | 0.23 | 92.04 |
| 7.0-8.0 | 24.48 | 126.20 | 4.70 | 24.23 | 54.0-55.0 | 1.15 | 480.45 | 0.22 | 92.26 |
| 8.0-9.0 | 24.41 | 150.60 | 4.69 | 28.92 | 55.0-56.0 | 1.11 | 481.56 | 0.21 | 92.47 |
| 9.0-10.0 | 23.54 | 174.14 | 4.52 | 33.44 | 56.0-57.0 | 1.06 | 482.62 | 0.20 | 92.68 |
| 10.0-11.0 | 22.14 | 196.28 | 4.25 | 37.69 | 57.0-58.0 | 1.02 | 483.65 | 0.20 | 92.87 |
| 11.0-12.0 | 20.50 | 216.78 | 3.94 | 41.63 | 58.0-59.0 | 0.99 | 484.63 | 0.19 | 93.06 |
| 12.0-13.0 | 18.88 | 235.66 | 3.63 | 45.25 | 59.0-60.0 | 0.95 | 485.58 | 0.18 | 93.24 |
| 13.0-14.0 | 17.43 | 253.10 | 3.35 | 48.60 | 60.0-61.0 | 0.91 | 486.49 | 0.18 | 93.42 |
| 14.0-15.0 | 16.18 | 269.28 | 3.11 | 51.71 | 61.0-62.0 | 0.88 | 487.37 | 0.17 | 93.59 |
| 15.0-16.0 | 15.11 | 284.39 | 2.90 | 54.61 | 62.0-63.0 | 0.85 | 488.22 | 0.16 | 93.75 |
| 16.0-17.0 | 14.18 | 298.56 | 2.72 | 57.33 | 63.0-64.0 | 0.82 | 489.04 | 0.16 | 93.91 |
| 17.0-18.0 | 13.36 | 311.92 | 2.57 | 59.90 | 64.0-65.0 | 0.79 | 489.83 | 0.15 | 94.06 |
| 18.0-19.0 | 12.63 | 324.55 | 2.43 | 62.32 | 65.0-66.0 | 0.76 | 490.59 | 0.15 | 94.21 |
| 19.0-20.0 | 11.95 | 336.51 | 2.30 | 64.62 | 66.0-67.0 | 0.74 | 491.33 | 0.14 | 94.35 |
| 20.0-21.0 | 11.30 | 347.80 | 2.17 | 66.79 | 67.0-68.0 | 0.71 | 492.05 | 0.14 | 94.48 |
| 21.0-22.0 | 10.64 | 358.44 | 2.04 | 68.83 | 68.0-69.0 | 0.69 | 492.74 | 0.13 | 94.62 |
| 22.0-23.0 | 9.96 | 368.40 | 1.91 | 70.74 | 69.0-70.0 | 0.67 | 493.40 | 0.13 | 94.74 |
| 23.0-24.0 | 9.27 | 377.67 | 1.78 | 72.52 | 70.0-71.0 | 0.64 | 494.05 | 0.12 | 94.87 |
| 24.0-25.0 | 8.59 | 386.26 | 1.65 | 74.17 | 71.0-72.0 | 0.62 | 494.67 | 0.12 | 94.99 |
| 25.0-26.0 | 7.91 | 394.17 | 1.52 | 75.69 | 72.0-73.0 | 0.60 | 495.27 | 0.12 | 95.10 |
| 26.0-27.0 | 7.27 | 401.45 | 1.40 | 77.09 | 73.0-74.0 | 0.58 | 495.85 | 0.11 | 95.21 |
| 27.0-28.0 | 6.66 | 408.10 | 1.28 | 78.37 | 74.0-75.0 | 0.56 | 496.41 | 0.11 | 95.32 |
| 28.0-29.0 | 6.09 | 414.20 | 1.17 | 79.54 | 75.0-76.0 | 0.54 | 496.95 | 0.10 | 95.43 |
| 29.0-30.0 | 5.57 | 419.77 | 1.07 | 80.61 | 76.0-77.0 | 0.52 | 497.46 | 0.10 | 95.52 |
| 30.0-31.0 | 5.09 | 424.86 | 0.98 | 81.58 | 77.0-78.0 | 0.50 | 497.96 | 0.10 | 95.62 |
| 31.0-32.0 | 4.66 | 429.52 | 0.89 | 82.48 | 78.0-79.0 | 0.48 | 498.44 | 0.09 | 95.71 |
| 32.0-33.0 | 4.27 | 433.79 | 0.82 | 83.30 | 79.0-80.0 | 0.46 | 498.90 | 0.09 | 95.80 |
| 33.0-34.0 | 3.92 | 437.71 | 0.75 | 84.05 | 80.0-81.0 | 0.44 | 499.35 | 0.08 | 95.89 |
| 34.0-35.0 | 3.61 | 441.32 | 0.69 | 84.74 | 81.0-82.0 | 0.42 | 499.77 | 0.08 | 95.97 |
| 35.0-36.0 | 3.34 | 444.66 | 0.64 | 85.38 | 82.0-83.0 | 0.40 | 500.17 | 0.08 | 96.04 |
| 36.0-37.0 | 3.09 | 447.75 | 0.59 | 85.98 | 83.0-84.0 | 0.38 | 500.55 | 0.07 | 96.12 |
| 37.0-38.0 | 2.87 | 450.62 | 0.55 | 86.53 | 84.0-85.0 | 0.37 | 500.92 | 0.07 | 96.19 |
| 38.0-39.0 | 2.68 | 453.30 | 0.51 | 87.04 | 85.0-86.0 | 0.35 | 501.27 | 0.07 | 96.26 |
| 39.0-40.0 | 2.50 | 455.80 | 0.48 | 87.52 | 86.0-87.0 | 0.34 | 501.61 | 0.06 | 96.32 |
| 40.0-41.0 | 2.34 | 458.14 | 0.45 | 87.97 | 87.0-88.0 | 0.33 | 501.93 | 0.06 | 96.38 |
| 41.0-42.0 | 2.20 | 460.34 | 0.42 | 88.40 | 88.0-89.0 | 0.32 | 502.25 | 0.06 | 96.44 |
| 42.0-43.0 | 2.07 | 462.41 | 0.40 | 88.79 | 89.0-90.0 | 0.31 | 502.56 | 0.06 | 96.50 |
| 43.0-44.0 | 1.95 | 464.37 | 0.38 | 89.17 | 90.0-91.0 | 0.30 | 502.86 | 0.06 | 96.56 |
| 44.0-45.0 | 1.85 | 466.22 | 0.36 | 89.52 | 91.0-92.0 | 0.30 | 503.15 | 0.06 | 96.62 |
| 45.0-46.0 | 1.75 | 467.97 | 0.34 | 89.86 | 92.0-93.0 | 0.29 | 503.45 | 0.06 | 96.67 |
| 46.0-47.0 | 1.66 | 469.63 | 0.32 | 90.18 | 93.0-94.0 | 0.29 | 503.73 | 0.05 | 96.73 |

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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 | 0.28 | 504.01 | 0.05 | 96.78 | 141.0-142.0 | 0.24 | 514.74 | 0.05 | 98.84 |
| 95.0-96.0 | 0.28 | 504.29 | 0.05 | 96.84 | 142.0-143.0 | 0.24 | 514.99 | 0.05 | 98.89 |
| 96.0-97.0 | 0.27 | 504.56 | 0.05 | 96.89 | 143.0-144.0 | 0.24 | 515.23 | 0.05 | 98.94 |
| 97.0-98.0 | 0.27 | 504.83 | 0.05 | 96.94 | 144.0-145.0 | 0.25 | 515.48 | 0.05 | 98.98 |
| 98.0-99.0 | 0.26 | 505.09 | 0.05 | 96.99 | 145.0-146.0 | 0.25 | 515.73 | 0.05 | 99.03 |
| 99.0-100.0 | 0.26 | 505.36 | 0.05 | 97.04 | 146.0-147.0 | 0.25 | 515.97 | 0.05 | 99.08 |
| 100.0-101.0 | 0.26 | 505.61 | 0.05 | 97.09 | 147.0-148.0 | 0.25 | 516.22 | 0.05 | 99.13 |
| 101.0-102.0 | 0.25 | 505.87 | 0.05 | 97.14 | 148.0-149.0 | 0.25 | 516.47 | 0.05 | 99.17 |
| 102.0-103.0 | 0.25 | 506.12 | 0.05 | 97.19 | 149.0-150.0 | 0.24 | 516.71 | 0.05 | 99.22 |
| 103.0-104.0 | 0.25 | 506.37 | 0.05 | 97.23 | 150.0-151.0 | 0.24 | 516.95 | 0.05 | 99.27 |
| 104.0-105.0 | 0.25 | 506.61 | 0.05 | 97.28 | 151.0-152.0 | 0.24 | 517.19 | 0.05 | 99.31 |
| 105.0-106.0 | 0.24 | 506.86 | 0.05 | 97.33 | 152.0-153.0 | 0.23 | 517.42 | 0.04 | 99.36 |
| 106.0-107.0 | 0.24 | 507.10 | 0.05 | 97.37 | 153.0-154.0 | 0.23 | 517.65 | 0.04 | 99.40 |
| 107.0-108.0 | 0.24 | 507.33 | 0.05 | 97.42 | 154.0-155.0 | 0.22 | 517.87 | 0.04 | 99.44 |
| 108.0-109.0 | 0.24 | 507.57 | 0.05 | 97.47 | 155.0-156.0 | 0.22 | 518.09 | 0.04 | 99.49 |
| 109.0-110.0 | 0.23 | 507.81 | 0.04 | 97.51 | 156.0-157.0 | 0.21 | 518.30 | 0.04 | 99.53 |
| 110.0-111.0 | 0.23 | 508.04 | 0.04 | 97.55 | 157.0-158.0 | 0.20 | 518.50 | 0.04 | 99.56 |
| 111.0-112.0 | 0.23 | 508.27 | 0.04 | 97.60 | 158.0-159.0 | 0.20 | 518.70 | 0.04 | 99.60 |
| 112.0-113.0 | 0.23 | 508.49 | 0.04 | 97.64 | 159.0-160.0 | 0.19 | 518.89 | 0.04 | 99.64 |
| 113.0-114.0 | 0.22 | 508.72 | 0.04 | 97.69 | 160.0-161.0 | 0.18 | 519.07 | 0.03 | 99.67 |
| 114.0-115.0 | 0.22 | 508.94 | 0.04 | 97.73 | 161.0-162.0 | 0.17 | 519.24 | 0.03 | 99.71 |
| 115.0-116.0 | 0.22 | 509.16 | 0.04 | 97.77 | 162.0-163.0 | 0.16 | 519.40 | 0.03 | 99.74 |
| 116.0-117.0 | 0.22 | 509.38 | 0.04 | 97.81 | 163.0-164.0 | 0.16 | 519.56 | 0.03 | 99.77 |
| 117.0-118.0 | 0.22 | 509.59 | 0.04 | 97.85 | 164.0-165.0 | 0.15 | 519.71 | 0.03 | 99.80 |
| 118.0-119.0 | 0.21 | 509.80 | 0.04 | 97.89 | 165.0-166.0 | 0.14 | 519.84 | 0.03 | 99.82 |
| 119.0-120.0 | 0.21 | 510.01 | 0.04 | 97.93 | 166.0-167.0 | 0.13 | 519.97 | 0.02 | 99.85 |
| 120.0-121.0 | 0.21 | 510.22 | 0.04 | 97.97 | 167.0-168.0 | 0.12 | 520.09 | 0.02 | 99.87 |
| 121.0-122.0 | 0.21 | 510.43 | 0.04 | 98.01 | 168.0-169.0 | 0.11 | 520.20 | 0.02 | 99.89 |
| 122.0-123.0 | 0.21 | 510.64 | 0.04 | 98.05 | 169.0-170.0 | 0.10 | 520.30 | 0.02 | 99.91 |
| 123.0-124.0 | 0.21 | 510.84 | 0.04 | 98.09 | 170.0-171.0 | 0.09 | 520.39 | 0.02 | 99.93 |
| 124.0-125.0 | 0.21 | 511.05 | 0.04 | 98.13 | 171.0-172.0 | 0.08 | 520.47 | 0.02 | 99.94 |
| 125.0-126.0 | 0.21 | 511.26 | 0.04 | 98.17 | 172.0-173.0 | 0.07 | 520.54 | 0.01 | 99.96 |
| 126.0-127.0 | 0.21 | 511.46 | 0.04 | 98.21 | 173.0-174.0 | 0.06 | 520.61 | 0.01 | 99.97 |
| 127.0-128.0 | 0.21 | 511.67 | 0.04 | 98.25 | 174.0-175.0 | 0.05 | 520.66 | 0.01 | 99.98 |
| 128.0-129.0 | 0.21 | 511.87 | 0.04 | 98.29 | 175.0-176.0 | 0.04 | 520.70 | 0.01 | 99.99 |
| 129.0-130.0 | 0.21 | 512.08 | 0.04 | 98.33 | 176.0-177.0 | 0.03 | 520.73 | 0.01 | 99.99 |
| 130.0-131.0 | 0.21 | 512.29 | 0.04 | 98.37 | 177.0-178.0 | 0.02 | 520.76 | 0.00 | 100.00 |
| 131.0-132.0 | 0.21 | 512.50 | 0.04 | 98.41 | 178.0-179.0 | 0.01 | 520.77 | 0.00 | 100.00 |
| 132.0-133.0 | 0.21 | 512.71 | 0.04 | 98.45 | 179.0-180.0 | 0.00 | 520.77 | 0.00 | 100.00 |
| 133.0-134.0 | 0.21 | 512.92 | 0.04 | 98.49 | | | | | |
| 134.0-135.0 | 0.22 | 513.14 | 0.04 | 98.53 | | | | | |
| 135.0-136.0 | 0.22 | 513.36 | 0.04 | 98.58 | | | | | |
| 136.0-137.0 | 0.22 | 513.58 | 0.04 | 98.62 | | | | | |
| 137.0-138.0 | 0.23 | 513.81 | 0.04 | 98.66 | | | | | |
| 138.0-139.0 | 0.23 | 514.04 | 0.04 | 98.71 | | | | | |
| 139.0-140.0 | 0.23 | 514.27 | 0.04 | 98.75 | | | | | |
| 140.0-141.0 | 0.24 | 514.50 | 0.05 | 98.80 | | | | | |

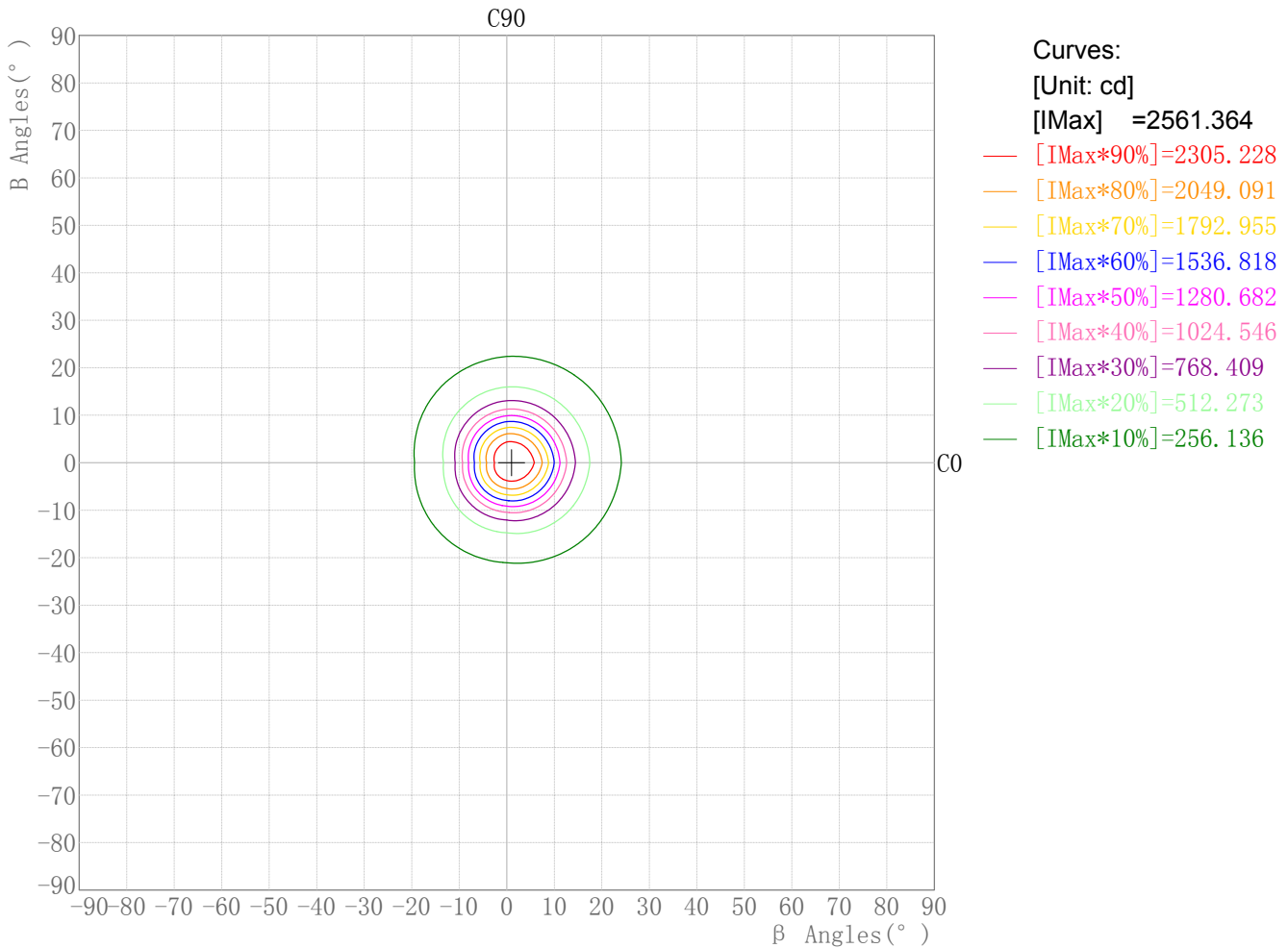
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Rectangle ISO Lighting Intensity Diagram

| | | |
|---|-----------------------|------------------------------|
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| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/05/06 |

ISO Lighting Intensity Curve



Maximum Light Intensity(cd): 2561.36

Maximum Cand.@Angle: H=1.0°,V=0.0°

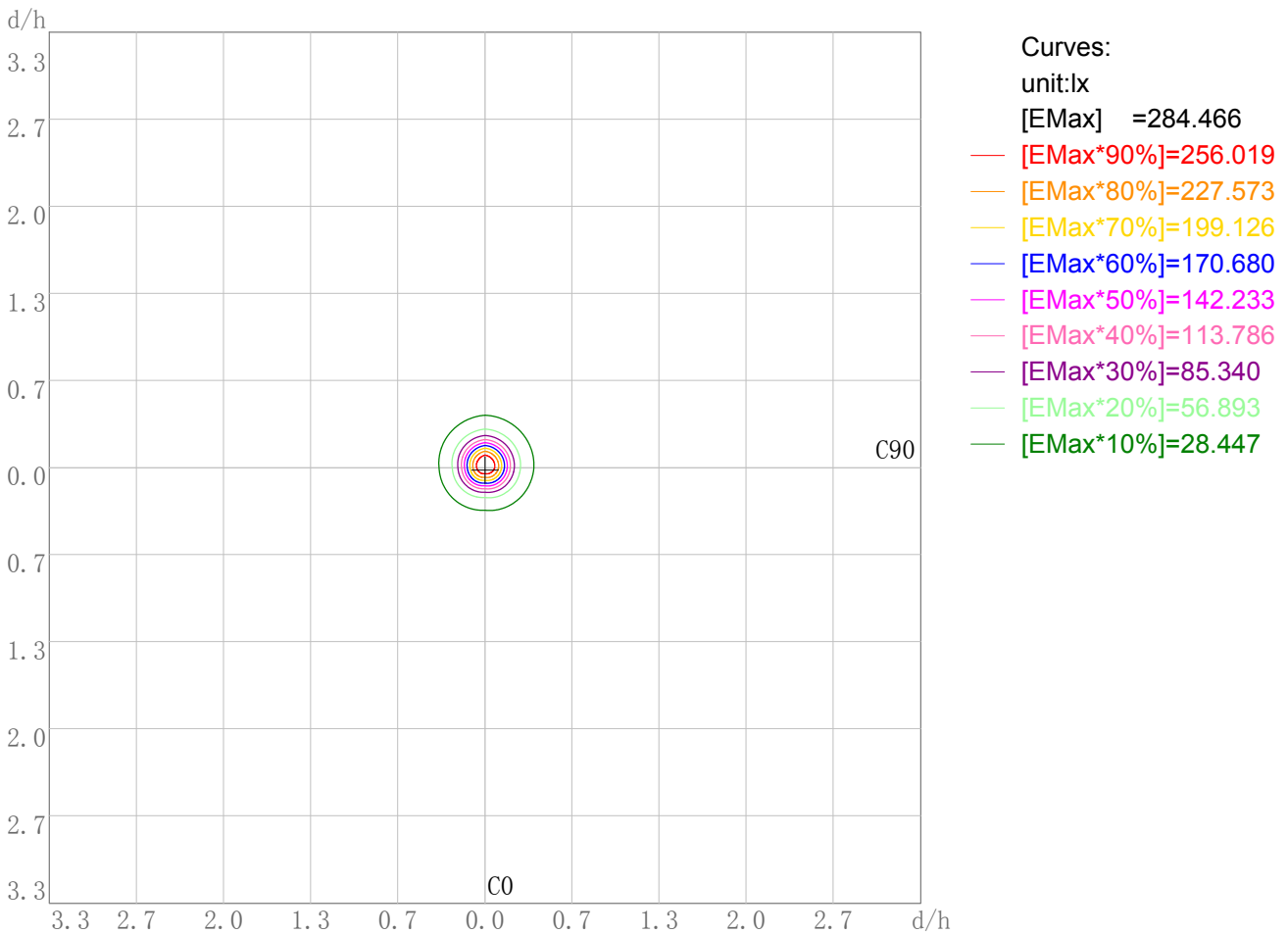
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Plane ISO-Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
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| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/05/06 |

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 284.47

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

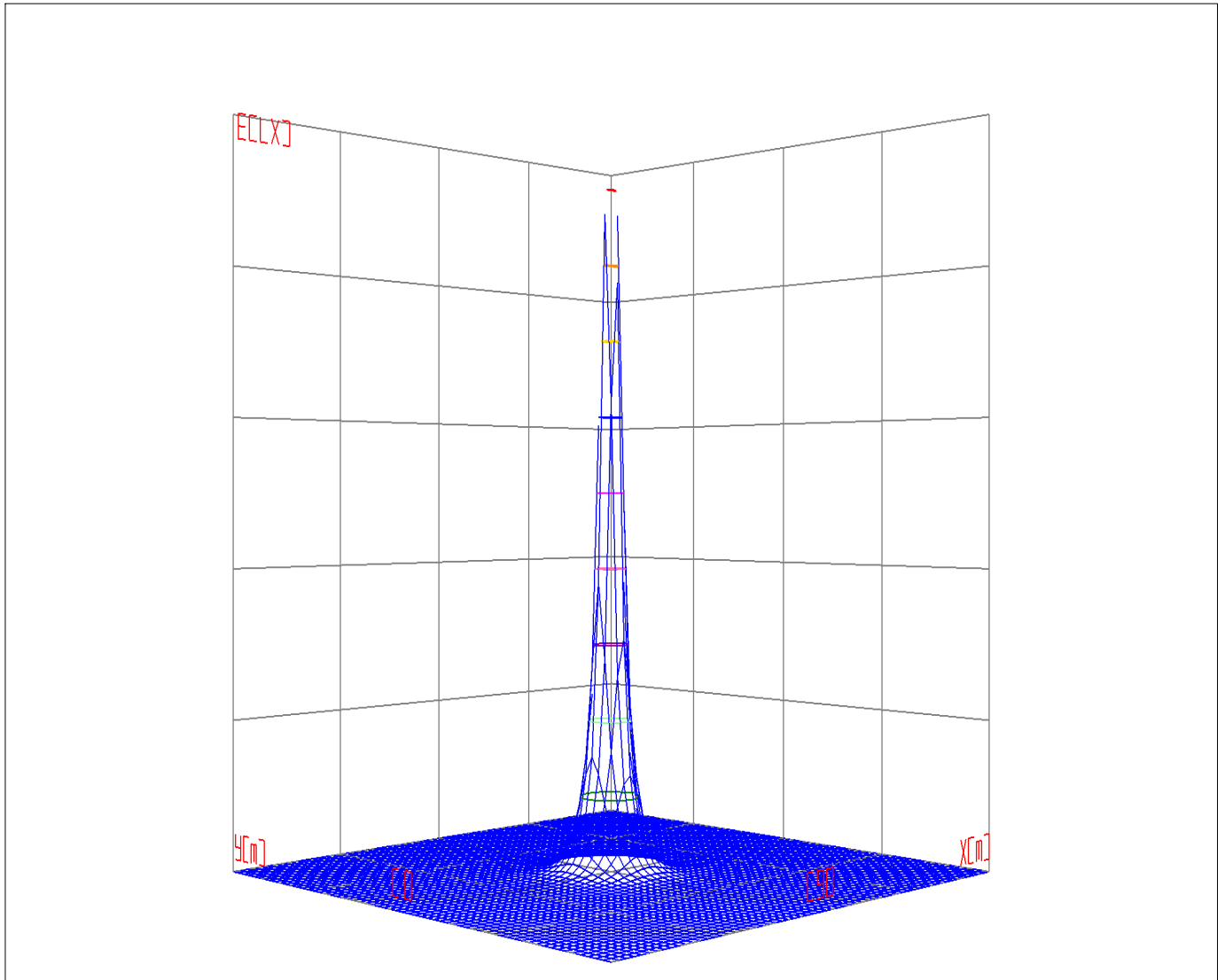
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3D Plane ISO Illuminance Diagram

| | | |
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| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/05/06 |

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

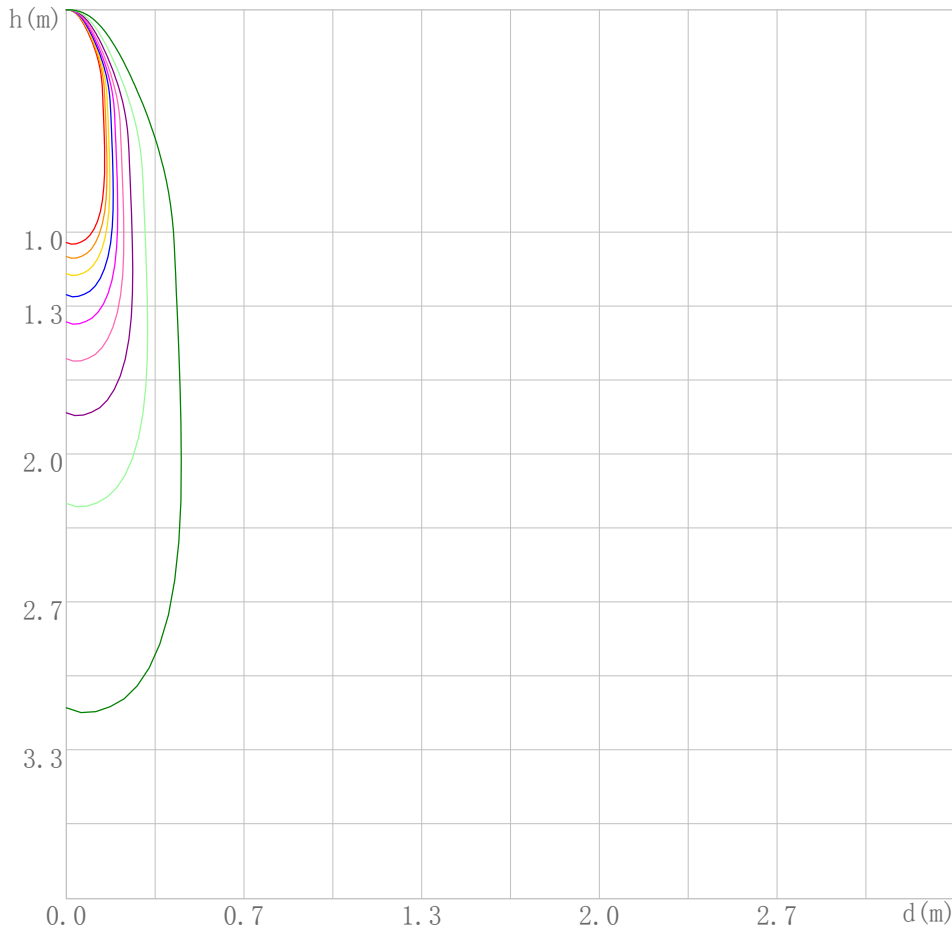
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Space ISO Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
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| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/05/06 |

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =2560.194

— [EMax*90%]=2304.174

— [EMax*80%]=2048.155

— [EMax*70%]=1792.136

— [EMax*60%]=1536.116

— [EMax*50%]=1280.097

— [EMax*40%]=1024.078

— [EMax*30%]=768.058

— [EMax*20%]=512.039

— [EMax*10%]=256.019

Space Plane Maximum Illuminance and @Angle:2560.19lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:2561.364cd,0deg

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Indoor Luminance Limiting Curves

| | | |
|---|-----------------------|------------------------------|
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| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/05/06 |

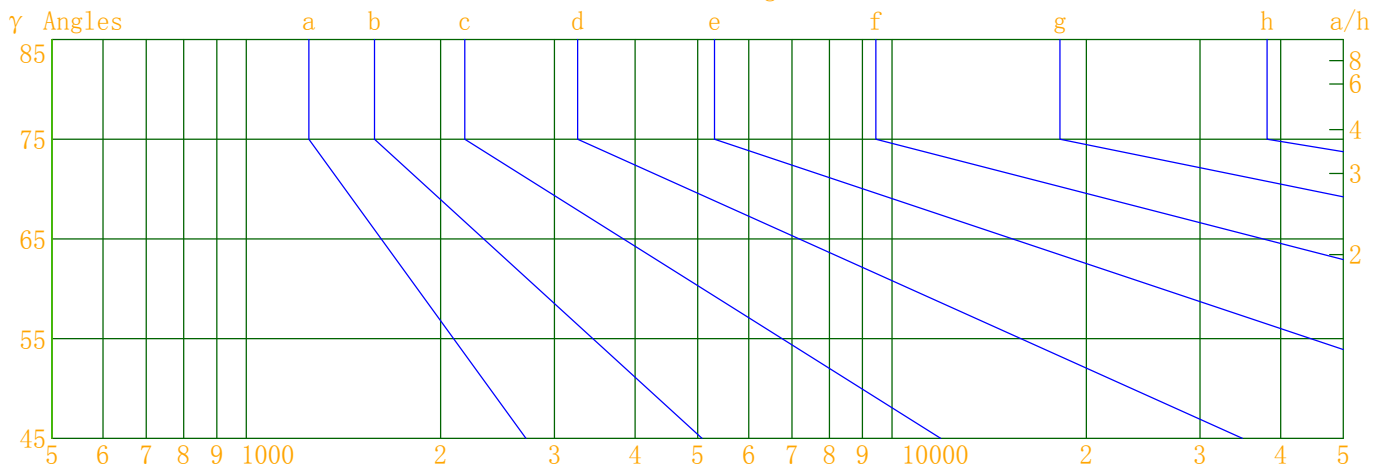
Glare Grade Table

| GI | Quality | Using Illuminance | | | | | | | |
|------|---------|-------------------|------|------|-------|-------|-------|-------|-------|
| | | a | b | c | d | e | f | g | h |
| 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



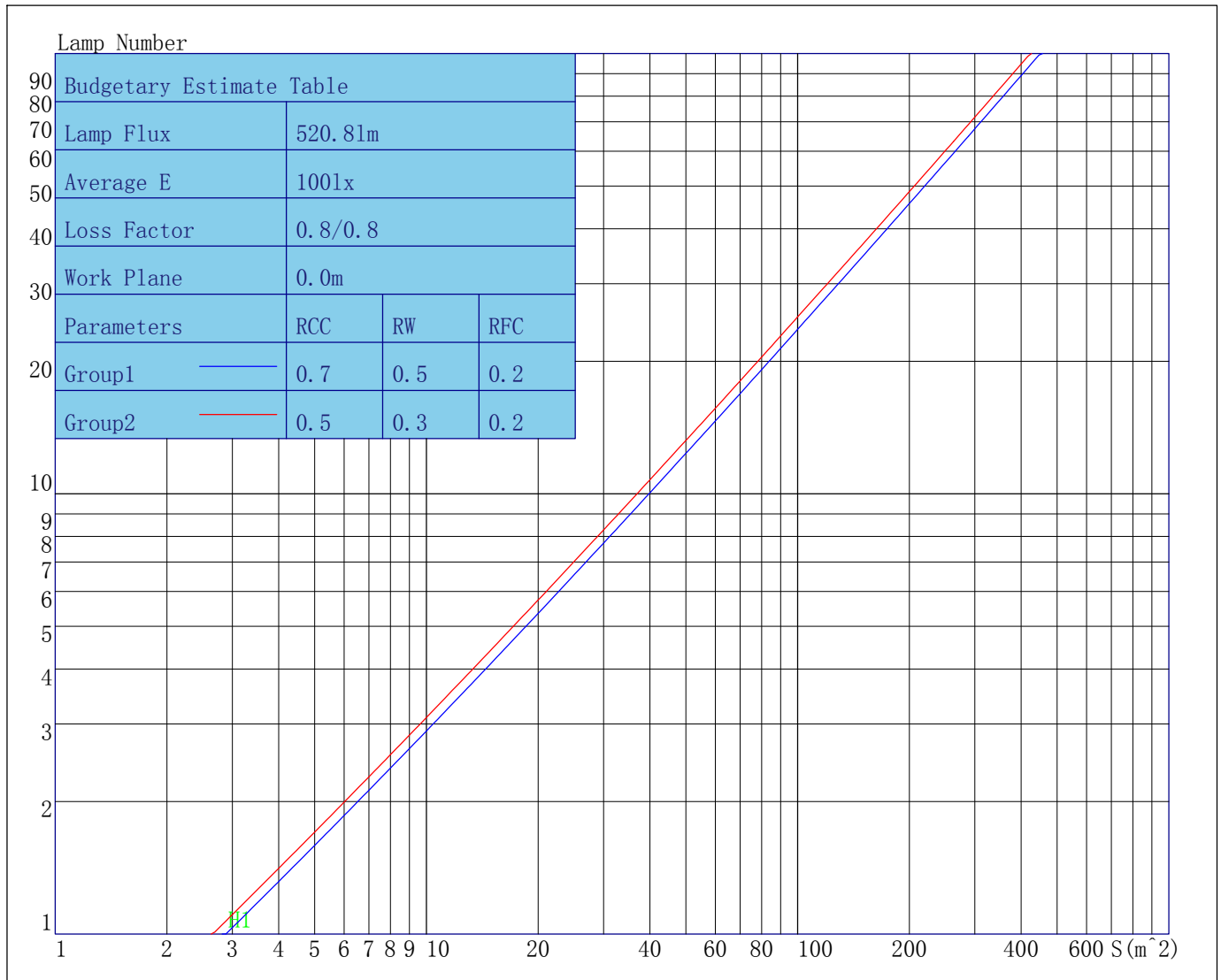
Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m²)=0.000000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

IES Indoor Report

Photometric Filename:MD14-06-XX-01 3000K RA80 24D.IES

Indoor Budgetary Estimate Table

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: MD14-06-XX-01 3000K RA80 24D | 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: 2020/05/06 |



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

IES Indoor Report

Photometric Filename:MD14-06-XX-01 3000K RA80 24D.IES

Indoor Coefficient of Utilization Table

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: MD14-06-XX-01 3000K RA80 24D | 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: 2020/05/06 |

| Coefficients of Utilization - Zonal Cavity Method | | | | | | | | | | | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| Coef. | Effective Floor Cavity Reflectance RFC=0.20 | | | | | | | | | | | | | | | | | |
| RhoCC (%) | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
| RhoW (%) | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | Coefficient of Utilization(%) | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1 | 113 | 110 | 108 | 106 | 110 | 108 | 106 | 104 | 103 | 102 | 100 | 99 | 98 | 97 | 95 | 94 | 93 | 91 |
| 2 | 108 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 98 | 95 | 93 | 95 | 93 | 91 | 91 | 90 | 88 | 87 |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 89 | 94 | 90 | 88 | 91 | 88 | 86 | 88 | 86 | 84 | 83 |
| 4 | 100 | 93 | 89 | 85 | 98 | 92 | 88 | 84 | 90 | 86 | 83 | 87 | 84 | 82 | 85 | 83 | 80 | 79 |
| 5 | 96 | 89 | 84 | 81 | 95 | 88 | 84 | 80 | 86 | 82 | 79 | 84 | 81 | 78 | 82 | 79 | 77 | 76 |
| 6 | 93 | 85 | 81 | 77 | 91 | 85 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 80 | 77 | 74 | 73 |
| 7 | 90 | 82 | 77 | 74 | 88 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 72 | 77 | 74 | 72 | 71 |
| 8 | 87 | 79 | 74 | 71 | 86 | 79 | 74 | 71 | 77 | 73 | 70 | 76 | 72 | 70 | 75 | 72 | 69 | 68 |
| 9 | 84 | 77 | 72 | 69 | 83 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 70 | 68 | 73 | 70 | 67 | 66 |
| 10 | 82 | 74 | 69 | 66 | 81 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 68 | 66 | 71 | 68 | 65 | 64 |

IES Indoor Report

Photometric Filename:MD14-06-XX-01 3000K RA80 24D.IES

Unified Glare Rating Table

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: MD14-06-XX-01 3000K RA80 24D | 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: 2020/05/06 |

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 | -3.4 | -2.4 | -3.0 | -2.0 | -1.6 | -3.4 | -2.4 | -3.0 | -2.0 | -1.6 |
| Y=3H | -3.6 | -2.7 | -3.2 | -2.3 | -1.8 | -3.6 | -2.7 | -3.2 | -2.3 | -1.8 |
| Y=4H | -3.7 | -2.9 | -3.3 | -2.4 | -2.0 | -3.7 | -2.9 | -3.3 | -2.4 | -2.0 |
| Y=6H | -3.8 | -3.0 | -3.4 | -2.6 | -2.1 | -3.8 | -3.0 | -3.4 | -2.6 | -2.1 |
| Y=8H | -3.9 | -3.1 | -3.4 | -2.7 | -2.2 | -3.9 | -3.1 | -3.4 | -2.7 | -2.2 |
| Y=12H | -3.9 | -3.2 | -3.4 | -2.8 | -2.3 | -3.9 | -3.2 | -3.4 | -2.8 | -2.3 |
| X=4H Y=2H | -3.7 | -2.9 | -3.3 | -2.4 | -2.0 | -3.7 | -2.9 | -3.3 | -2.4 | -2.0 |
| Y=3H | -3.9 | -3.2 | -3.5 | -2.7 | -2.3 | -3.9 | -3.2 | -3.5 | -2.7 | -2.3 |
| Y=4H | -4.1 | -3.4 | -3.6 | -2.9 | -2.4 | -4.1 | -3.4 | -3.6 | -2.9 | -2.4 |
| Y=6H | -4.2 | -3.6 | -3.6 | -3.1 | -2.5 | -4.2 | -3.6 | -3.6 | -3.1 | -2.5 |
| Y=8H | -4.2 | -3.7 | -3.7 | -3.2 | -2.6 | -4.2 | -3.7 | -3.7 | -3.2 | -2.6 |
| Y=12H | -4.3 | -3.8 | -3.8 | -3.3 | -2.7 | -4.3 | -3.8 | -3.8 | -3.3 | -2.7 |
| X=8H Y=4H | -4.2 | -3.7 | -3.7 | -3.2 | -2.6 | -4.2 | -3.7 | -3.7 | -3.2 | -2.6 |
| Y=6H | -4.4 | -3.9 | -3.8 | -3.4 | -2.8 | -4.4 | -3.9 | -3.8 | -3.4 | -2.8 |
| Y=8H | -4.4 | -4.0 | -3.9 | -3.5 | -2.9 | -4.4 | -4.0 | -3.9 | -3.5 | -2.9 |
| Y=12H | -4.5 | -4.1 | -3.9 | -3.6 | -2.9 | -4.5 | -4.1 | -3.9 | -3.6 | -2.9 |
| X=12H Y=4H | -4.3 | -3.8 | -3.8 | -3.3 | -2.7 | -4.3 | -3.8 | -3.8 | -3.3 | -2.7 |
| Y=6H | -4.4 | -4.0 | -3.8 | -3.5 | -2.9 | -4.4 | -4.0 | -3.8 | -3.5 | -2.9 |
| Y=8H | -4.5 | -4.1 | -3.9 | -3.6 | -2.9 | -4.5 | -4.1 | -3.9 | -3.6 | -2.9 |
| 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: | BKO | | | | | BKO | | | | |
| Correction Value | 0.0 | | | | | 0.0 | | | | |

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

IES Indoor Report

Photometric Filename:MD14-06-XX-01 3000K RA80 24D.IES

Candela Tabulation

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|---------|---------|---------|---------|
| γ 0.0 | 2525.41 | 2525.41 | 2525.41 | 2525.41 |
| γ 1.0 | 2561.36 | 2517.85 | 2465.53 | 2501.15 |
| γ 2.0 | 2558.09 | 2484.95 | 2378.14 | 2458.88 |
| γ 3.0 | 2527.74 | 2433.43 | 2252.39 | 2390.20 |
| γ 4.0 | 2479.25 | 2350.89 | 2095.56 | 2279.19 |
| γ 5.0 | 2396.99 | 2228.01 | 1912.07 | 2126.38 |
| γ 6.0 | 2281.26 | 2064.38 | 1709.67 | 1943.40 |
| γ 7.0 | 2132.59 | 1873.37 | 1498.91 | 1740.06 |
| γ 8.0 | 1954.86 | 1673.04 | 1286.80 | 1524.94 |
| γ 9.0 | 1751.21 | 1466.02 | 1082.13 | 1306.95 |
| γ 10.0 | 1535.37 | 1259.23 | 899.94 | 1103.32 |
| γ 11.0 | 1321.91 | 1070.19 | 747.20 | 924.64 |
| γ 12.0 | 1125.73 | 907.48 | 627.46 | 776.88 |
| γ 13.0 | 957.74 | 775.04 | 535.40 | 659.51 |
| γ 14.0 | 819.88 | 667.88 | 465.56 | 567.22 |
| γ 15.0 | 707.86 | 580.65 | 411.19 | 494.66 |
| γ 16.0 | 616.51 | 508.76 | 367.36 | 436.68 |
| γ 17.0 | 541.44 | 450.33 | 330.49 | 389.59 |
| γ 18.0 | 479.52 | 401.92 | 297.79 | 350.39 |
| γ 19.0 | 428.71 | 361.09 | 267.75 | 316.62 |
| γ 20.0 | 386.15 | 326.14 | 239.59 | 286.23 |
| γ 21.0 | 349.86 | 294.99 | 212.71 | 257.71 |
| γ 22.0 | 317.23 | 266.29 | 187.81 | 230.65 |
| γ 23.0 | 287.10 | 239.52 | 165.07 | 205.14 |
| γ 24.0 | 258.94 | 214.45 | 144.82 | 181.44 |
| γ 25.0 | 232.78 | 191.12 | 126.77 | 160.09 |
| γ 26.0 | 208.60 | 169.70 | 111.03 | 141.14 |
| γ 27.0 | 186.14 | 150.30 | 97.50 | 124.52 |
| γ 28.0 | 165.00 | 132.95 | 85.73 | 109.93 |
| γ 29.0 | 147.08 | 117.80 | 75.57 | 97.21 |
| γ 30.0 | 130.52 | 104.40 | 66.79 | 86.15 |
| γ 31.0 | 115.79 | 92.63 | 59.25 | 76.41 |
| γ 32.0 | 102.97 | 82.39 | 52.83 | 68.12 |
| γ 33.0 | 91.49 | 73.42 | 47.51 | 60.91 |
| γ 34.0 | 81.50 | 65.61 | 42.91 | 54.90 |
| γ 35.0 | 72.77 | 58.94 | 38.93 | 49.64 |
| γ 36.0 | 65.17 | 53.12 | 35.48 | 45.09 |
| γ 37.0 | 58.66 | 48.12 | 32.42 | 41.04 |
| γ 38.0 | 53.02 | 43.76 | 29.72 | 37.56 |
| γ 39.0 | 48.09 | 39.83 | 27.38 | 34.44 |
| γ 40.0 | 43.76 | 36.32 | 25.32 | 31.71 |
| γ 41.0 | 39.97 | 33.23 | 23.48 | 29.34 |
| γ 42.0 | 36.66 | 30.35 | 21.84 | 27.30 |
| γ 43.0 | 33.70 | 27.86 | 20.34 | 25.54 |
| γ 44.0 | 31.05 | 25.64 | 19.09 | 23.91 |
| γ 45.0 | 28.67 | 23.69 | 17.93 | 22.45 |
| γ 46.0 | 26.53 | 21.90 | 16.90 | 21.07 |

IES Indoor Report

Photometric Filename:MD14-06-XX-01 3000K RA80 24D.IES

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|-------|-------|--------|--------|
| γ 47.0 | 24.61 | 20.35 | 15.97 | 19.81 |
| γ 48.0 | 22.91 | 18.96 | 15.13 | 18.62 |
| γ 49.0 | 21.40 | 17.67 | 14.34 | 17.61 |
| γ 50.0 | 20.05 | 16.52 | 13.60 | 16.61 |
| γ 51.0 | 18.81 | 15.47 | 12.94 | 15.73 |
| γ 52.0 | 17.67 | 14.53 | 12.31 | 14.87 |
| γ 53.0 | 16.65 | 13.73 | 11.73 | 14.04 |
| γ 54.0 | 15.68 | 12.97 | 11.17 | 13.31 |
| γ 55.0 | 14.80 | 12.24 | 10.63 | 12.64 |
| γ 56.0 | 14.00 | 11.60 | 10.14 | 12.01 |
| γ 57.0 | 13.27 | 11.01 | 9.67 | 11.44 |
| γ 58.0 | 12.60 | 10.43 | 9.24 | 10.91 |
| γ 59.0 | 11.98 | 9.91 | 8.83 | 10.41 |
| γ 60.0 | 11.37 | 9.43 | 8.46 | 9.91 |
| γ 61.0 | 10.80 | 8.95 | 8.10 | 9.48 |
| γ 62.0 | 10.28 | 8.53 | 7.77 | 9.08 |
| γ 63.0 | 9.80 | 8.15 | 7.45 | 8.70 |
| γ 64.0 | 9.34 | 7.78 | 7.14 | 8.35 |
| γ 65.0 | 8.94 | 7.45 | 6.85 | 8.01 |
| γ 66.0 | 8.56 | 7.14 | 6.57 | 7.69 |
| γ 67.0 | 8.20 | 6.86 | 6.32 | 7.39 |
| γ 68.0 | 7.86 | 6.57 | 6.05 | 7.09 |
| γ 69.0 | 7.53 | 6.31 | 5.81 | 6.82 |
| γ 70.0 | 7.23 | 6.06 | 5.58 | 6.54 |
| γ 71.0 | 6.94 | 5.82 | 5.37 | 6.29 |
| γ 72.0 | 6.65 | 5.58 | 5.15 | 6.04 |
| γ 73.0 | 6.39 | 5.37 | 4.94 | 5.80 |
| γ 74.0 | 6.13 | 5.15 | 4.73 | 5.59 |
| γ 75.0 | 5.88 | 4.94 | 4.53 | 5.37 |
| γ 76.0 | 5.64 | 4.73 | 4.34 | 5.16 |
| γ 77.0 | 5.41 | 4.52 | 4.17 | 4.96 |
| γ 78.0 | 5.19 | 4.34 | 3.99 | 4.74 |
| γ 79.0 | 4.98 | 4.16 | 3.82 | 4.55 |
| γ 80.0 | 4.76 | 3.97 | 3.63 | 4.34 |
| γ 81.0 | 4.54 | 3.78 | 3.45 | 4.14 |
| γ 82.0 | 4.34 | 3.59 | 3.27 | 3.92 |
| γ 83.0 | 4.13 | 3.39 | 3.13 | 3.76 |
| γ 84.0 | 3.91 | 3.24 | 2.99 | 3.58 |
| γ 85.0 | 3.74 | 3.09 | 2.86 | 3.44 |
| γ 86.0 | 3.58 | 2.97 | 2.74 | 3.31 |
| γ 87.0 | 3.43 | 2.84 | 2.65 | 3.16 |
| γ 88.0 | 3.30 | 2.72 | 2.58 | 3.06 |
| γ 89.0 | 3.17 | 2.65 | 2.53 | 2.99 |
| γ 90.0 | 3.09 | 2.60 | 2.49 | 2.93 |
| γ 91.0 | 3.04 | 2.57 | 2.45 | 2.86 |
| γ 92.0 | 2.99 | 2.54 | 2.40 | 2.81 |
| γ 93.0 | 2.94 | 2.49 | 2.37 | 2.76 |

IES Indoor Report

Photometric Filename:MD14-06-XX-01 3000K RA80 24D.IES

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 94.0 | 2.90 | 2.46 | 2.32 | 2.70 |
| γ 95.0 | 2.84 | 2.44 | 2.28 | 2.64 |
| γ 96.0 | 2.81 | 2.41 | 2.25 | 2.60 |
| γ 97.0 | 2.77 | 2.39 | 2.22 | 2.56 |
| γ 98.0 | 2.72 | 2.35 | 2.20 | 2.52 |
| γ 99.0 | 2.69 | 2.33 | 2.18 | 2.49 |
| γ 100.0 | 2.65 | 2.31 | 2.16 | 2.46 |
| γ 101.0 | 2.63 | 2.29 | 2.14 | 2.43 |
| γ 102.0 | 2.60 | 2.27 | 2.14 | 2.42 |
| γ 103.0 | 2.57 | 2.25 | 2.13 | 2.40 |
| γ 104.0 | 2.54 | 2.25 | 2.12 | 2.38 |
| γ 105.0 | 2.53 | 2.23 | 2.12 | 2.37 |
| γ 106.0 | 2.49 | 2.22 | 2.11 | 2.36 |
| γ 107.0 | 2.48 | 2.21 | 2.11 | 2.34 |
| γ 108.0 | 2.46 | 2.19 | 2.11 | 2.34 |
| γ 109.0 | 2.45 | 2.19 | 2.12 | 2.33 |
| γ 110.0 | 2.42 | 2.18 | 2.10 | 2.32 |
| γ 111.0 | 2.40 | 2.16 | 2.11 | 2.32 |
| γ 112.0 | 2.38 | 2.14 | 2.12 | 2.32 |
| γ 113.0 | 2.36 | 2.13 | 2.13 | 2.31 |
| γ 114.0 | 2.34 | 2.11 | 2.14 | 2.31 |
| γ 115.0 | 2.32 | 2.10 | 2.15 | 2.32 |
| γ 116.0 | 2.30 | 2.09 | 2.16 | 2.32 |
| γ 117.0 | 2.28 | 2.08 | 2.17 | 2.33 |
| γ 118.0 | 2.26 | 2.06 | 2.18 | 2.33 |
| γ 119.0 | 2.24 | 2.05 | 2.21 | 2.34 |
| γ 120.0 | 2.22 | 2.03 | 2.23 | 2.35 |
| γ 121.0 | 2.22 | 2.04 | 2.25 | 2.37 |
| γ 122.0 | 2.20 | 2.04 | 2.28 | 2.39 |
| γ 123.0 | 2.21 | 2.05 | 2.31 | 2.40 |
| γ 124.0 | 2.20 | 2.07 | 2.35 | 2.43 |
| γ 125.0 | 2.21 | 2.09 | 2.38 | 2.45 |
| γ 126.0 | 2.23 | 2.11 | 2.43 | 2.48 |
| γ 127.0 | 2.24 | 2.14 | 2.47 | 2.52 |
| γ 128.0 | 2.26 | 2.18 | 2.52 | 2.55 |
| γ 129.0 | 2.29 | 2.21 | 2.57 | 2.60 |
| γ 130.0 | 2.33 | 2.26 | 2.64 | 2.65 |
| γ 131.0 | 2.36 | 2.32 | 2.70 | 2.71 |
| γ 132.0 | 2.41 | 2.37 | 2.78 | 2.77 |
| γ 133.0 | 2.46 | 2.43 | 2.87 | 2.84 |
| γ 134.0 | 2.51 | 2.50 | 2.96 | 2.92 |
| γ 135.0 | 2.57 | 2.58 | 3.07 | 3.01 |
| γ 136.0 | 2.64 | 2.66 | 3.18 | 3.11 |
| γ 137.0 | 2.72 | 2.75 | 3.30 | 3.21 |
| γ 138.0 | 2.81 | 2.86 | 3.42 | 3.33 |
| γ 139.0 | 2.91 | 2.96 | 3.55 | 3.44 |
| γ 140.0 | 3.00 | 3.07 | 3.68 | 3.57 |

IES Indoor Report

Photometric Filename:MD14-06-XX-01 3000K RA80 24D.IES

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 141.0 | 3.12 | 3.19 | 3.81 | 3.69 |
| γ 142.0 | 3.23 | 3.31 | 3.94 | 3.81 |
| γ 143.0 | 3.35 | 3.43 | 4.05 | 3.92 |
| γ 144.0 | 3.47 | 3.55 | 4.17 | 4.05 |
| γ 145.0 | 3.59 | 3.67 | 4.28 | 4.16 |
| γ 146.0 | 3.71 | 3.79 | 4.38 | 4.26 |
| γ 147.0 | 3.84 | 3.90 | 4.48 | 4.36 |
| γ 148.0 | 3.95 | 4.03 | 4.55 | 4.46 |
| γ 149.0 | 4.06 | 4.13 | 4.63 | 4.53 |
| γ 150.0 | 4.16 | 4.22 | 4.71 | 4.61 |
| γ 151.0 | 4.28 | 4.30 | 4.77 | 4.68 |
| γ 152.0 | 4.36 | 4.38 | 4.83 | 4.73 |
| γ 153.0 | 4.45 | 4.45 | 4.88 | 4.78 |
| γ 154.0 | 4.53 | 4.51 | 4.92 | 4.82 |
| γ 155.0 | 4.60 | 4.56 | 4.96 | 4.86 |
| γ 156.0 | 4.66 | 4.61 | 5.00 | 4.89 |
| γ 157.0 | 4.72 | 4.65 | 5.03 | 4.92 |
| γ 158.0 | 4.77 | 4.67 | 5.05 | 4.95 |
| γ 159.0 | 4.81 | 4.71 | 5.08 | 4.97 |
| γ 160.0 | 4.86 | 4.74 | 5.08 | 4.98 |
| γ 161.0 | 4.89 | 4.77 | 5.10 | 5.00 |
| γ 162.0 | 4.92 | 4.79 | 5.11 | 5.01 |
| γ 163.0 | 4.95 | 4.82 | 5.13 | 5.02 |
| γ 164.0 | 4.98 | 4.85 | 5.13 | 5.03 |
| γ 165.0 | 5.00 | 4.86 | 5.14 | 5.03 |
| γ 166.0 | 5.02 | 4.89 | 5.13 | 5.03 |
| γ 167.0 | 5.05 | 4.90 | 5.12 | 5.02 |
| γ 168.0 | 5.06 | 4.92 | 5.11 | 5.02 |
| γ 169.0 | 5.07 | 4.93 | 5.10 | 5.01 |
| γ 170.0 | 5.06 | 4.94 | 5.08 | 4.99 |
| γ 171.0 | 5.06 | 4.93 | 5.05 | 4.98 |
| γ 172.0 | 5.06 | 4.93 | 5.02 | 4.95 |
| γ 173.0 | 5.05 | 4.91 | 4.99 | 4.93 |
| γ 174.0 | 5.03 | 4.89 | 4.96 | 4.90 |
| γ 175.0 | 5.00 | 4.86 | 4.94 | 4.87 |
| γ 176.0 | 4.97 | 4.85 | 4.91 | 4.86 |
| γ 177.0 | 4.95 | 4.85 | 4.90 | 4.86 |
| γ 178.0 | 4.93 | 4.85 | 4.91 | 4.87 |
| γ 179.0 | 4.92 | 4.85 | 4.92 | 4.88 |
| γ 180.0 | 4.90 | 4.90 | 4.90 | 4.90 |
