

IES Indoor Report

Photometric Filename:MD04-13W-15度-普瑞调色温.IES

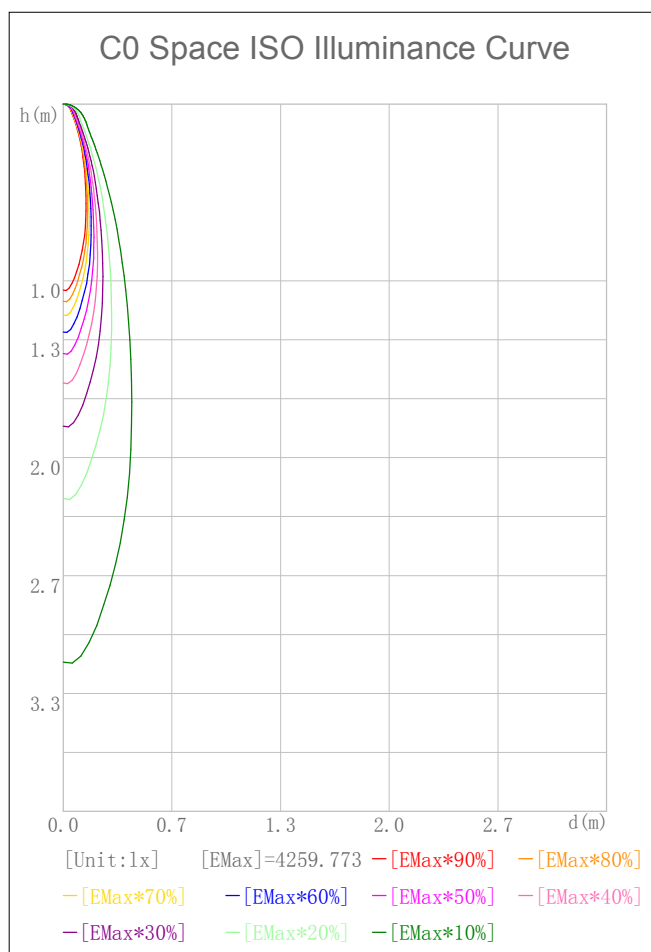
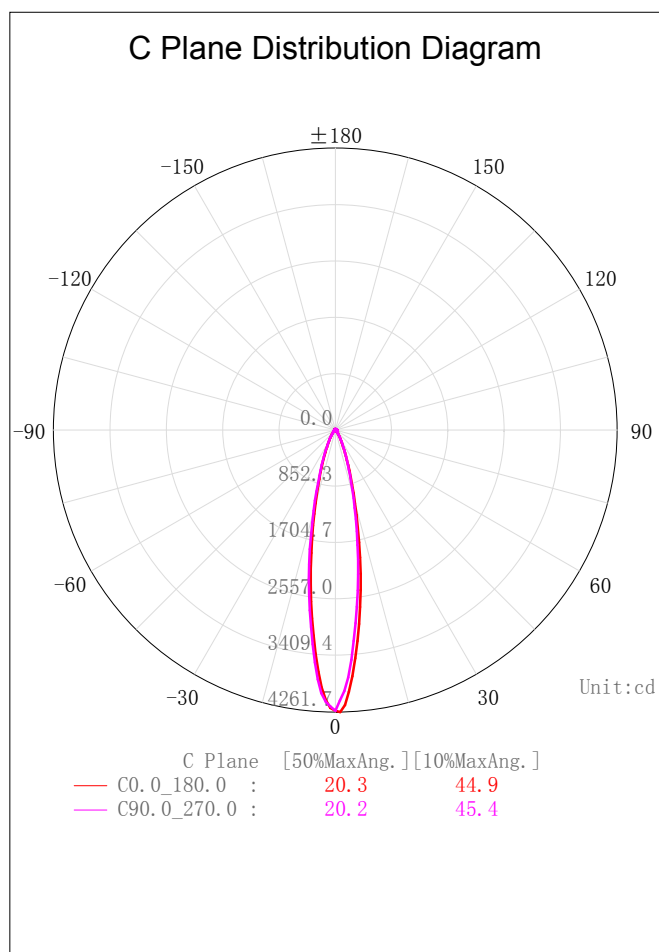
Indoor Luminaire Photometric Data

Description Information

| | | | |
|------------------------------------------------|-------------------------|---------------------|-----------------------|
| Luminary Name: MD04-13W-15度-普瑞调色温 | | Lum. Catalog: | Test ID: |
| Lamp Name: | | Lamp Catalog: LED | Test Date: 2017/11/28 |
| 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): 865.000 | Luminary Flux(lm): 931.879 | Field Angle(10%Imax): 44.9(°) | |
| Rated Power(W): | Luminary Efficiency: 107.73% | Down Lumens&Percent: 894.579lm 96.00% | |
| Rated Voltage(V): | Luminary EER(lm/W): 74.970 | Up Lumens&Percent: 37.301lm 4.00% | |
| Tested Power(W): 12.430 | Max. Candela(cd): 4261.720 | S/MH: C0_a180=0.345 C90_270=0.341 | |
| Lamps' Inside: 1 | Max Cand@Ang.(°): C=0.0 γ=1.0 | CIE Type: Semi-Direct | |
| Tested Electrics(V, A, pf):240.0, 0.055, 0.942 | | Beam Angle(50%Imax): 20.3(°) | ErP Φ use(90°): 822.512lm |
| Lamp Size(W*L*H):0.000m*0.000m*0.000m | | Left=-10.0°, Right=10.3° | IRF(%): 1036.462 |



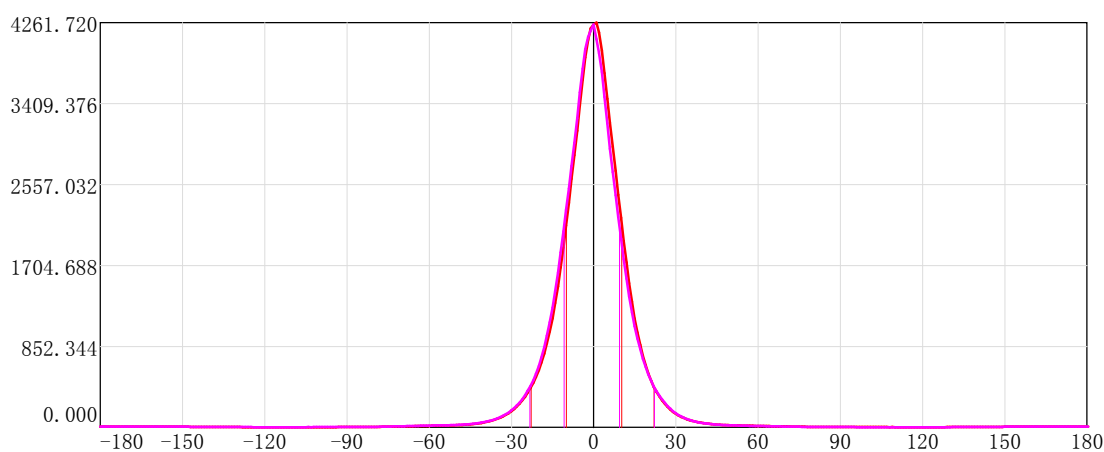
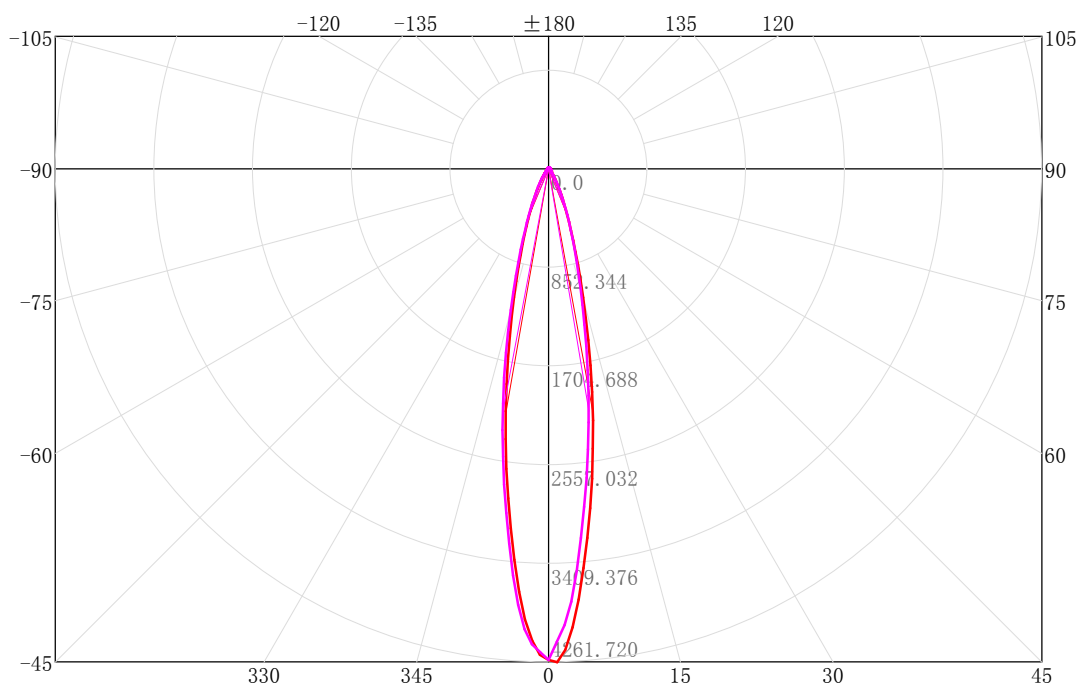
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2D Plane Light Intensity Distribution Curve

| | | |
|------------------------------------------------|-----------------------|------------------------------|
| Lum. Name: MD04-13W-15度-普瑞调色温 | Lum. Catalog: | Test ID: |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: SHENZHEN NORMING LIGHTING CO.,LTD | Test Machine:GON-2000 | Test Date: 2017/11/28 |

C Plane Distribution Diagram



| | | | | |
|---|---------------|--------------|--------------|---------|
| | C Plane | [50%MaxAng.] | [10%MaxAng.] | Unit:cd |
| — | C0.0_180.0 : | 20.3 | 44.9 | |
| — | C90.0_270.0 : | 20.2 | 45.4 | |

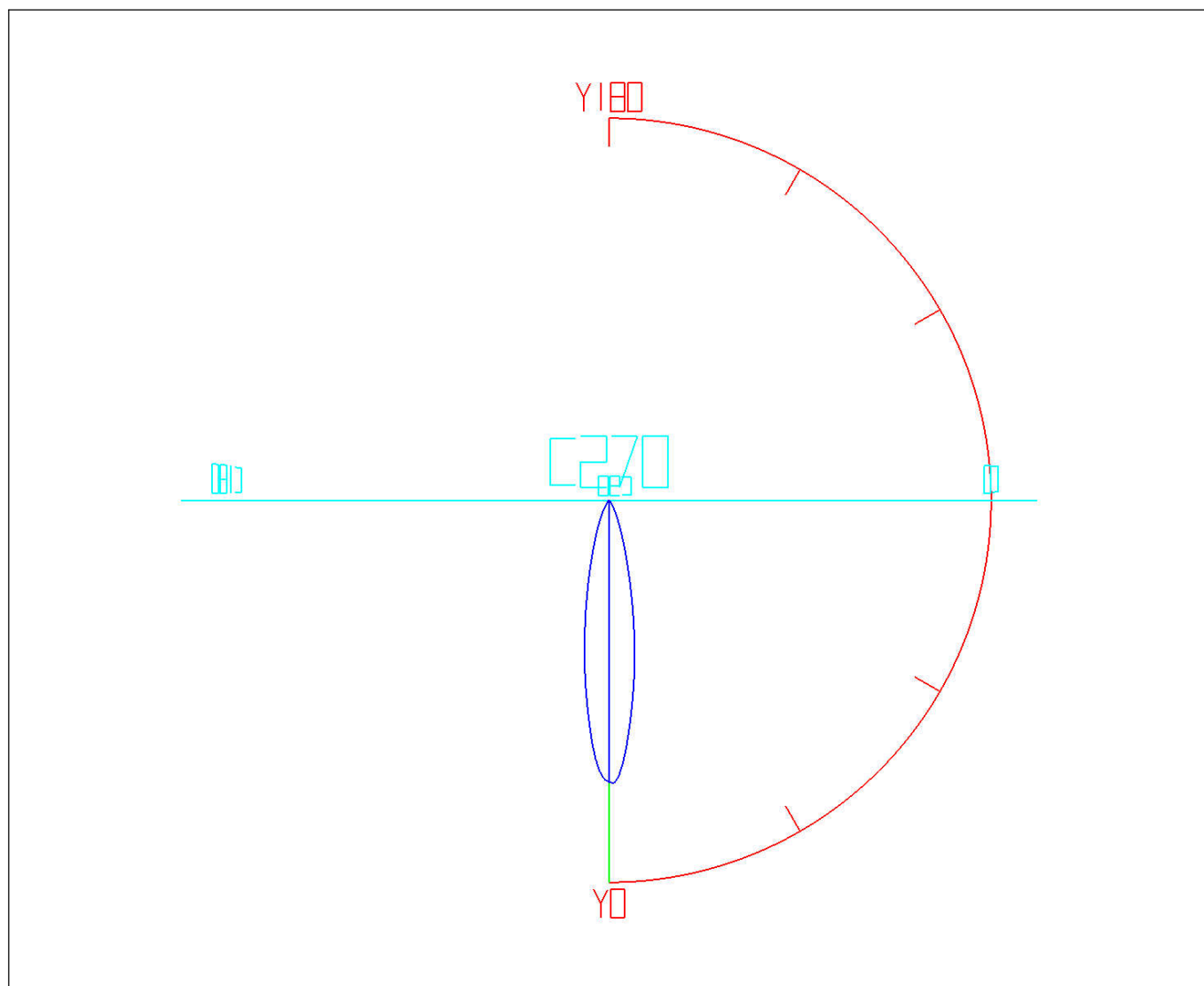
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3D Light Intensity Distribution Modal

| | | |
|------------------------------------------------|-----------------------|------------------------------|
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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: 2017/11/28 |

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 | 4.03 | 4.03 | 0.47 | 0.47 | 47.0-48.0 | 2.33 | 838.04 | 0.27 | 96.88 |
| 1.0-2.0 | 11.85 | 15.88 | 1.37 | 1.84 | 48.0-49.0 | 2.25 | 840.29 | 0.26 | 97.14 |
| 2.0-3.0 | 19.06 | 34.94 | 2.20 | 4.04 | 49.0-50.0 | 2.18 | 842.47 | 0.25 | 97.39 |
| 3.0-4.0 | 25.30 | 60.24 | 2.93 | 6.96 | 50.0-51.0 | 2.12 | 844.58 | 0.24 | 97.64 |
| 4.0-5.0 | 30.36 | 90.60 | 3.51 | 10.47 | 51.0-52.0 | 2.07 | 846.65 | 0.24 | 97.88 |
| 5.0-6.0 | 34.29 | 124.88 | 3.96 | 14.44 | 52.0-53.0 | 2.02 | 848.67 | 0.23 | 98.11 |
| 6.0-7.0 | 37.28 | 162.16 | 4.31 | 18.75 | 53.0-54.0 | 1.98 | 850.65 | 0.23 | 98.34 |
| 7.0-8.0 | 39.41 | 201.57 | 4.56 | 23.30 | 54.0-55.0 | 1.94 | 852.59 | 0.22 | 98.56 |
| 8.0-9.0 | 40.65 | 242.23 | 4.70 | 28.00 | 55.0-56.0 | 1.91 | 854.49 | 0.22 | 98.79 |
| 9.0-10.0 | 41.08 | 283.31 | 4.75 | 32.75 | 56.0-57.0 | 1.87 | 856.37 | 0.22 | 99.00 |
| 10.0-11.0 | 40.74 | 324.04 | 4.71 | 37.46 | 57.0-58.0 | 1.84 | 858.20 | 0.21 | 99.21 |
| 11.0-12.0 | 39.70 | 363.74 | 4.59 | 42.05 | 58.0-59.0 | 1.80 | 860.01 | 0.21 | 99.42 |
| 12.0-13.0 | 38.12 | 401.86 | 4.41 | 46.46 | 59.0-60.0 | 1.77 | 861.77 | 0.20 | 99.63 |
| 13.0-14.0 | 36.16 | 438.03 | 4.18 | 50.64 | 60.0-61.0 | 1.73 | 863.50 | 0.20 | 99.83 |
| 14.0-15.0 | 34.02 | 472.05 | 3.93 | 54.57 | 61.0-62.0 | 1.69 | 865.19 | 0.20 | 100.02 |
| 15.0-16.0 | 31.82 | 503.86 | 3.68 | 58.25 | 62.0-63.0 | 1.65 | 866.84 | 0.19 | 100.21 |
| 16.0-17.0 | 29.60 | 533.46 | 3.42 | 61.67 | 63.0-64.0 | 1.60 | 868.44 | 0.19 | 100.40 |
| 17.0-18.0 | 27.41 | 560.87 | 3.17 | 64.84 | 64.0-65.0 | 1.56 | 870.00 | 0.18 | 100.58 |
| 18.0-19.0 | 25.30 | 586.17 | 2.92 | 67.76 | 65.0-66.0 | 1.52 | 871.52 | 0.18 | 100.75 |
| 19.0-20.0 | 23.29 | 609.45 | 2.69 | 70.46 | 66.0-67.0 | 1.47 | 872.99 | 0.17 | 100.92 |
| 20.0-21.0 | 21.40 | 630.86 | 2.47 | 72.93 | 67.0-68.0 | 1.43 | 874.42 | 0.16 | 101.09 |
| 21.0-22.0 | 19.67 | 650.52 | 2.27 | 75.20 | 68.0-69.0 | 1.38 | 875.79 | 0.16 | 101.25 |
| 22.0-23.0 | 18.06 | 668.58 | 2.09 | 77.29 | 69.0-70.0 | 1.33 | 877.12 | 0.15 | 101.40 |
| 23.0-24.0 | 16.54 | 685.13 | 1.91 | 79.21 | 70.0-71.0 | 1.28 | 878.40 | 0.15 | 101.55 |
| 24.0-25.0 | 15.13 | 700.25 | 1.75 | 80.95 | 71.0-72.0 | 1.23 | 879.62 | 0.14 | 101.69 |
| 25.0-26.0 | 13.79 | 714.04 | 1.59 | 82.55 | 72.0-73.0 | 1.18 | 880.80 | 0.14 | 101.83 |
| 26.0-27.0 | 12.55 | 726.59 | 1.45 | 84.00 | 73.0-74.0 | 1.12 | 881.92 | 0.13 | 101.96 |
| 27.0-28.0 | 11.39 | 737.98 | 1.32 | 85.32 | 74.0-75.0 | 1.07 | 883.00 | 0.12 | 102.08 |
| 28.0-29.0 | 10.32 | 748.30 | 1.19 | 86.51 | 75.0-76.0 | 1.02 | 884.02 | 0.12 | 102.20 |
| 29.0-30.0 | 9.36 | 757.65 | 1.08 | 87.59 | 76.0-77.0 | 0.97 | 884.98 | 0.11 | 102.31 |
| 30.0-31.0 | 8.48 | 766.14 | 0.98 | 88.57 | 77.0-78.0 | 0.90 | 885.88 | 0.10 | 102.41 |
| 31.0-32.0 | 7.70 | 773.83 | 0.89 | 89.46 | 78.0-79.0 | 0.84 | 886.72 | 0.10 | 102.51 |
| 32.0-33.0 | 7.00 | 780.83 | 0.81 | 90.27 | 79.0-80.0 | 0.80 | 887.52 | 0.09 | 102.60 |
| 33.0-34.0 | 6.36 | 787.19 | 0.74 | 91.01 | 80.0-81.0 | 0.77 | 888.29 | 0.09 | 102.69 |
| 34.0-35.0 | 5.79 | 792.99 | 0.67 | 91.67 | 81.0-82.0 | 0.76 | 889.05 | 0.09 | 102.78 |
| 35.0-36.0 | 5.28 | 798.27 | 0.61 | 92.29 | 82.0-83.0 | 0.74 | 889.79 | 0.09 | 102.87 |
| 36.0-37.0 | 4.83 | 803.10 | 0.56 | 92.84 | 83.0-84.0 | 0.73 | 890.52 | 0.08 | 102.95 |
| 37.0-38.0 | 4.44 | 807.54 | 0.51 | 93.36 | 84.0-85.0 | 0.71 | 891.23 | 0.08 | 103.03 |
| 38.0-39.0 | 4.08 | 811.63 | 0.47 | 93.83 | 85.0-86.0 | 0.70 | 891.94 | 0.08 | 103.11 |
| 39.0-40.0 | 3.77 | 815.40 | 0.44 | 94.27 | 86.0-87.0 | 0.69 | 892.62 | 0.08 | 103.19 |
| 40.0-41.0 | 3.50 | 818.89 | 0.40 | 94.67 | 87.0-88.0 | 0.67 | 893.29 | 0.08 | 103.27 |
| 41.0-42.0 | 3.25 | 822.15 | 0.38 | 95.05 | 88.0-89.0 | 0.65 | 893.95 | 0.08 | 103.35 |
| 42.0-43.0 | 3.03 | 825.18 | 0.35 | 95.40 | 89.0-90.0 | 0.63 | 894.58 | 0.07 | 103.42 |
| 43.0-44.0 | 2.85 | 828.03 | 0.33 | 95.73 | 90.0-91.0 | 0.62 | 895.20 | 0.07 | 103.49 |
| 44.0-45.0 | 2.69 | 830.72 | 0.31 | 96.04 | 91.0-92.0 | 0.61 | 895.81 | 0.07 | 103.56 |
| 45.0-46.0 | 2.55 | 833.27 | 0.30 | 96.33 | 92.0-93.0 | 0.60 | 896.41 | 0.07 | 103.63 |
| 46.0-47.0 | 2.44 | 835.71 | 0.28 | 96.61 | 93.0-94.0 | 0.59 | 897.01 | 0.07 | 103.70 |

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Zonal Flux Tabulation - (Cont.)

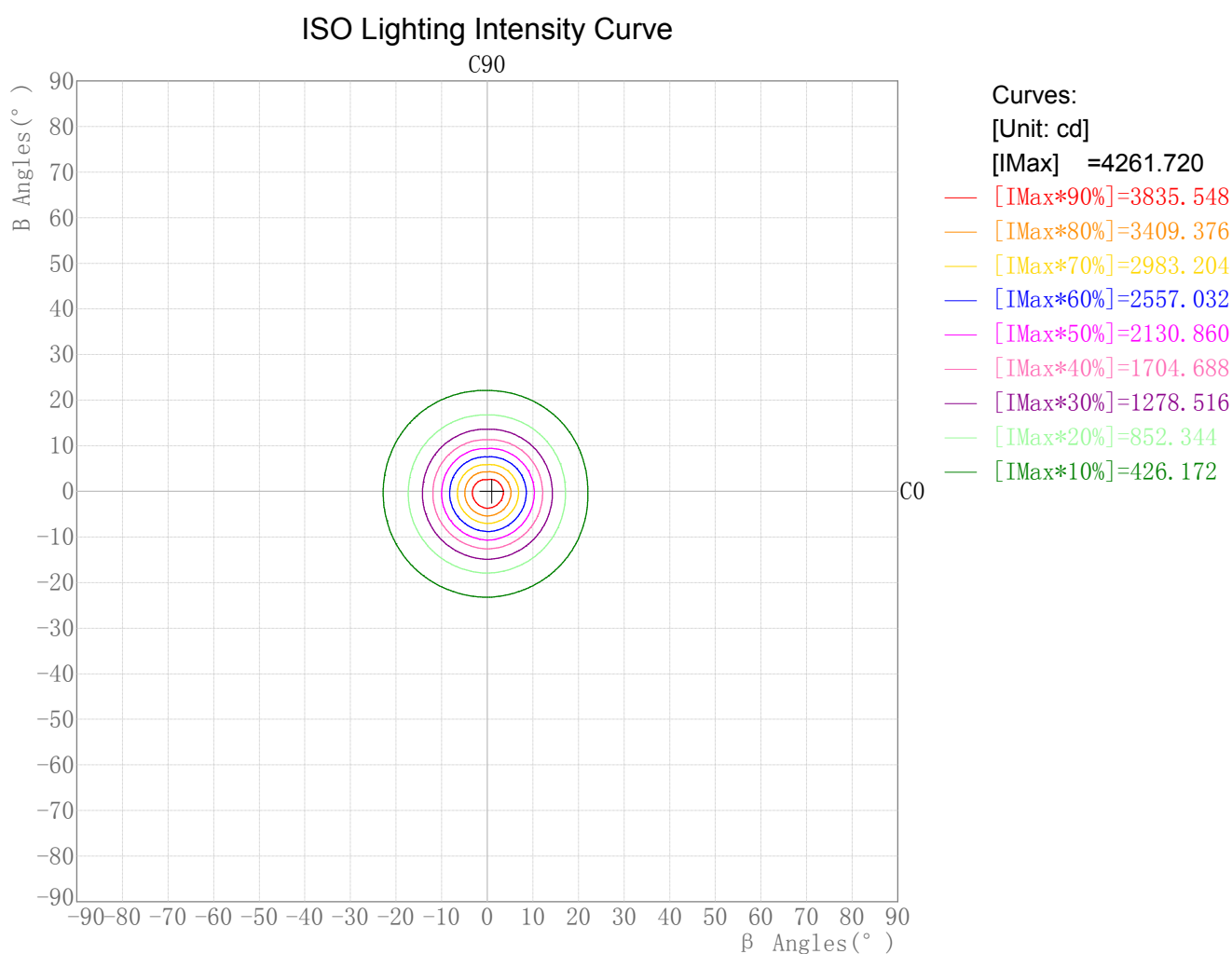
| Zone (γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone (γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|-------------|----------------|----------------|-----------|-----------|-------------|----------------|----------------|-----------|-----------|
| 94.0-95.0 | 0.58 | 897.59 | 0.07 | 103.77 | 141.0-142.0 | 0.48 | 920.11 | 0.06 | 106.37 |
| 95.0-96.0 | 0.58 | 898.17 | 0.07 | 103.83 | 142.0-143.0 | 0.48 | 920.59 | 0.06 | 106.43 |
| 96.0-97.0 | 0.57 | 898.74 | 0.07 | 103.90 | 143.0-144.0 | 0.48 | 921.08 | 0.06 | 106.48 |
| 97.0-98.0 | 0.57 | 899.30 | 0.07 | 103.97 | 144.0-145.0 | 0.49 | 921.56 | 0.06 | 106.54 |
| 98.0-99.0 | 0.56 | 899.86 | 0.06 | 104.03 | 145.0-146.0 | 0.49 | 922.05 | 0.06 | 106.60 |
| 99.0-100.0 | 0.55 | 900.41 | 0.06 | 104.09 | 146.0-147.0 | 0.48 | 922.53 | 0.06 | 106.65 |
| 100.0-101.0 | 0.54 | 900.95 | 0.06 | 104.16 | 147.0-148.0 | 0.48 | 923.01 | 0.06 | 106.71 |
| 101.0-102.0 | 0.54 | 901.49 | 0.06 | 104.22 | 148.0-149.0 | 0.48 | 923.49 | 0.06 | 106.76 |
| 102.0-103.0 | 0.53 | 902.02 | 0.06 | 104.28 | 149.0-150.0 | 0.47 | 923.97 | 0.05 | 106.82 |
| 103.0-104.0 | 0.53 | 902.55 | 0.06 | 104.34 | 150.0-151.0 | 0.47 | 924.44 | 0.05 | 106.87 |
| 104.0-105.0 | 0.52 | 903.07 | 0.06 | 104.40 | 151.0-152.0 | 0.46 | 924.90 | 0.05 | 106.92 |
| 105.0-106.0 | 0.52 | 903.59 | 0.06 | 104.46 | 152.0-153.0 | 0.45 | 925.35 | 0.05 | 106.98 |
| 106.0-107.0 | 0.51 | 904.10 | 0.06 | 104.52 | 153.0-154.0 | 0.44 | 925.79 | 0.05 | 107.03 |
| 107.0-108.0 | 0.51 | 904.60 | 0.06 | 104.58 | 154.0-155.0 | 0.43 | 926.23 | 0.05 | 107.08 |
| 108.0-109.0 | 0.50 | 905.10 | 0.06 | 104.64 | 155.0-156.0 | 0.42 | 926.65 | 0.05 | 107.13 |
| 109.0-110.0 | 0.49 | 905.60 | 0.06 | 104.69 | 156.0-157.0 | 0.41 | 927.06 | 0.05 | 107.17 |
| 110.0-111.0 | 0.49 | 906.09 | 0.06 | 104.75 | 157.0-158.0 | 0.40 | 927.45 | 0.05 | 107.22 |
| 111.0-112.0 | 0.48 | 906.57 | 0.06 | 104.81 | 158.0-159.0 | 0.38 | 927.84 | 0.04 | 107.26 |
| 112.0-113.0 | 0.48 | 907.05 | 0.06 | 104.86 | 159.0-160.0 | 0.37 | 928.20 | 0.04 | 107.31 |
| 113.0-114.0 | 0.48 | 907.53 | 0.06 | 104.92 | 160.0-161.0 | 0.35 | 928.55 | 0.04 | 107.35 |
| 114.0-115.0 | 0.47 | 908.00 | 0.05 | 104.97 | 161.0-162.0 | 0.34 | 928.89 | 0.04 | 107.39 |
| 115.0-116.0 | 0.46 | 908.46 | 0.05 | 105.02 | 162.0-163.0 | 0.32 | 929.21 | 0.04 | 107.42 |
| 116.0-117.0 | 0.46 | 908.92 | 0.05 | 105.08 | 163.0-164.0 | 0.30 | 929.51 | 0.03 | 107.46 |
| 117.0-118.0 | 0.46 | 909.38 | 0.05 | 105.13 | 164.0-165.0 | 0.29 | 929.80 | 0.03 | 107.49 |
| 118.0-119.0 | 0.45 | 909.83 | 0.05 | 105.18 | 165.0-166.0 | 0.27 | 930.06 | 0.03 | 107.52 |
| 119.0-120.0 | 0.45 | 910.28 | 0.05 | 105.23 | 166.0-167.0 | 0.25 | 930.31 | 0.03 | 107.55 |
| 120.0-121.0 | 0.44 | 910.72 | 0.05 | 105.29 | 167.0-168.0 | 0.23 | 930.55 | 0.03 | 107.58 |
| 121.0-122.0 | 0.44 | 911.16 | 0.05 | 105.34 | 168.0-169.0 | 0.21 | 930.76 | 0.02 | 107.60 |
| 122.0-123.0 | 0.44 | 911.60 | 0.05 | 105.39 | 169.0-170.0 | 0.20 | 930.95 | 0.02 | 107.62 |
| 123.0-124.0 | 0.44 | 912.04 | 0.05 | 105.44 | 170.0-171.0 | 0.18 | 931.13 | 0.02 | 107.65 |
| 124.0-125.0 | 0.44 | 912.47 | 0.05 | 105.49 | 171.0-172.0 | 0.16 | 931.29 | 0.02 | 107.66 |
| 125.0-126.0 | 0.44 | 912.91 | 0.05 | 105.54 | 172.0-173.0 | 0.14 | 931.43 | 0.02 | 107.68 |
| 126.0-127.0 | 0.44 | 913.34 | 0.05 | 105.59 | 173.0-174.0 | 0.12 | 931.55 | 0.01 | 107.69 |
| 127.0-128.0 | 0.43 | 913.78 | 0.05 | 105.64 | 174.0-175.0 | 0.10 | 931.65 | 0.01 | 107.71 |
| 128.0-129.0 | 0.43 | 914.21 | 0.05 | 105.69 | 175.0-176.0 | 0.08 | 931.73 | 0.01 | 107.71 |
| 129.0-130.0 | 0.44 | 914.65 | 0.05 | 105.74 | 176.0-177.0 | 0.06 | 931.80 | 0.01 | 107.72 |
| 130.0-131.0 | 0.44 | 915.09 | 0.05 | 105.79 | 177.0-178.0 | 0.05 | 931.84 | 0.01 | 107.73 |
| 131.0-132.0 | 0.44 | 915.53 | 0.05 | 105.84 | 178.0-179.0 | 0.03 | 931.87 | 0.00 | 107.73 |
| 132.0-133.0 | 0.44 | 915.97 | 0.05 | 105.89 | 179.0-180.0 | 0.01 | 931.88 | 0.00 | 107.73 |
| 133.0-134.0 | 0.44 | 916.41 | 0.05 | 105.94 | | | | | |
| 134.0-135.0 | 0.45 | 916.86 | 0.05 | 106.00 | | | | | |
| 135.0-136.0 | 0.45 | 917.31 | 0.05 | 106.05 | | | | | |
| 136.0-137.0 | 0.46 | 917.77 | 0.05 | 106.10 | | | | | |
| 137.0-138.0 | 0.46 | 918.23 | 0.05 | 106.15 | | | | | |
| 138.0-139.0 | 0.46 | 918.69 | 0.05 | 106.21 | | | | | |
| 139.0-140.0 | 0.47 | 919.16 | 0.05 | 106.26 | | | | | |
| 140.0-141.0 | 0.47 | 919.63 | 0.05 | 106.32 | | | | | |

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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: 2017/11/28 |



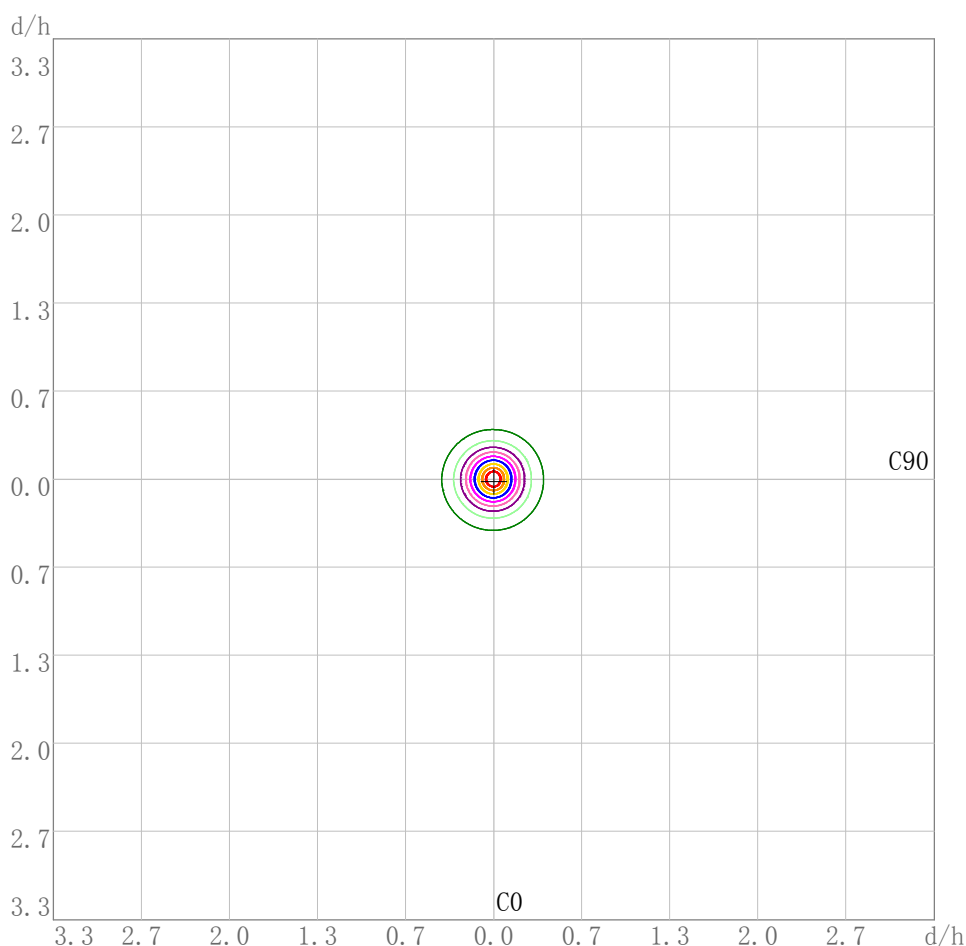
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Plane ISO-Illuminance Diagram

| | | |
|------------------------------------------------|-----------------------|------------------------------|
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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: 2017/11/28 |

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 473.31

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

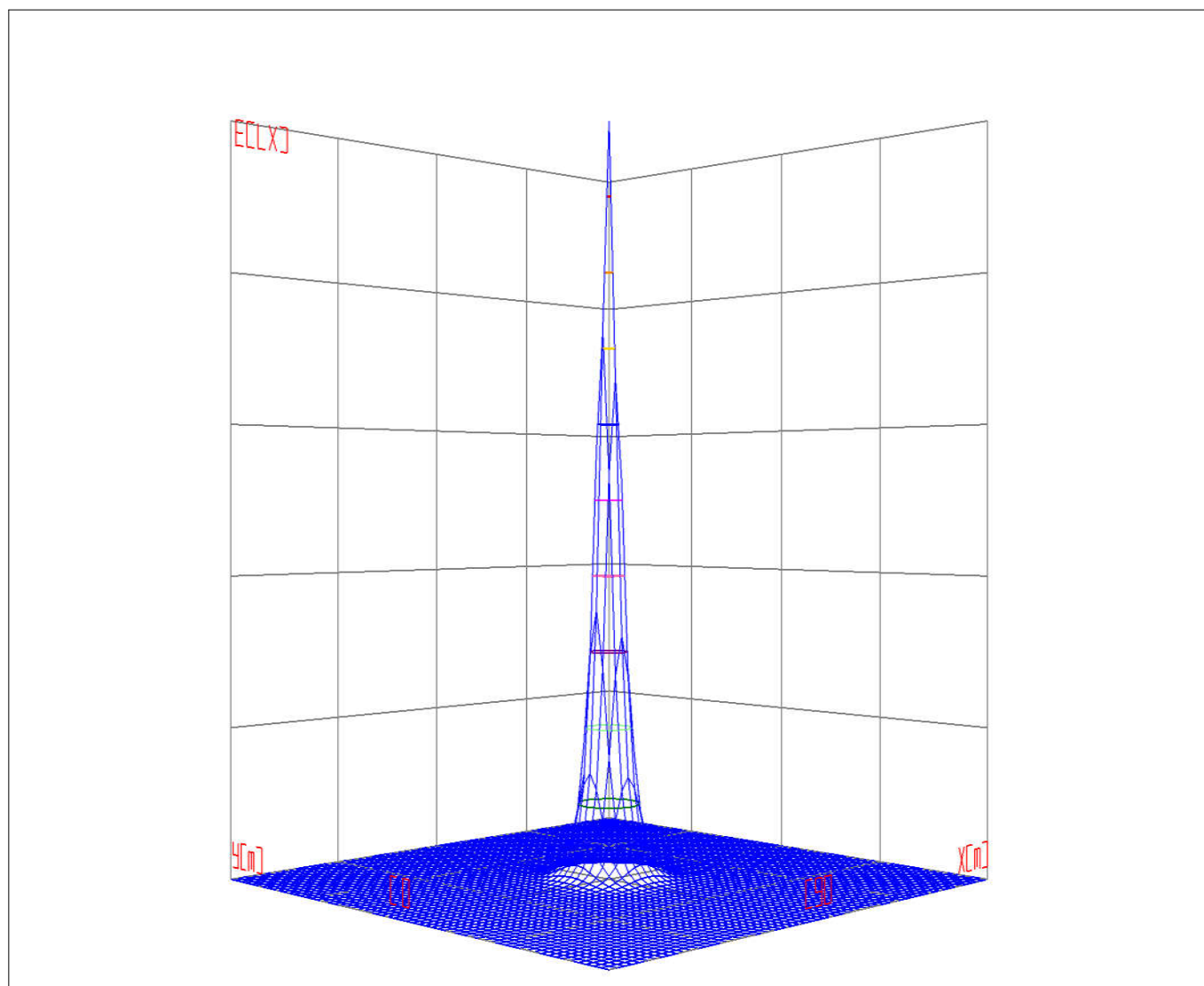
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3D Plane ISO Illuminance Diagram

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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: 2017/11/28 |

3D Plane Illuminance Modal



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

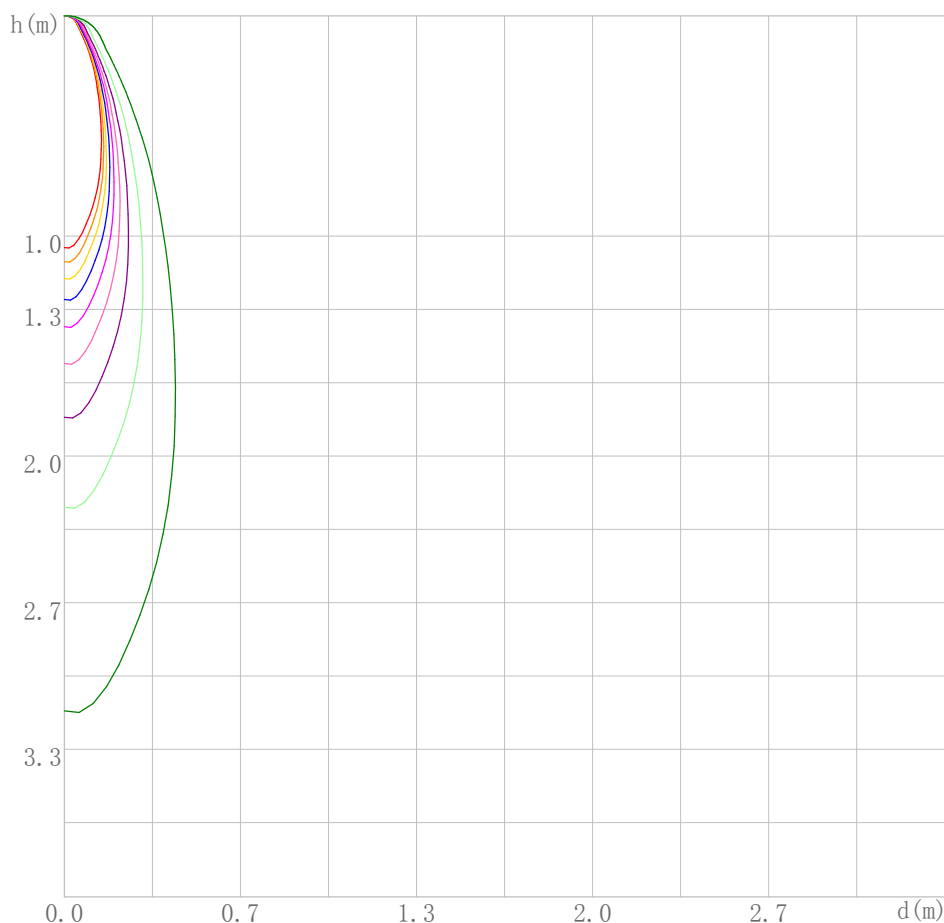
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Space ISO Illuminance Diagram

| | | |
|-------------------------------------------------|------------------------|------------------------------|
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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: 2017/11/28 |

Space ISO Illuminance Curve



- Curves:
[Unit: lx]
[EMax] =4259.773
- [EMax*90%]=3833.796
 - [EMax*80%]=3407.819
 - [EMax*70%]=2981.841
 - [EMax*60%]=2555.864
 - [EMax*50%]=2129.887
 - [EMax*40%]=1703.909
 - [EMax*30%]=1277.932
 - [EMax*20%]=851.955
 - [EMax*10%]=425.977

Space Plane Maximum Illuminance and @Angle:4259.77lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:4261.720cd,0deg

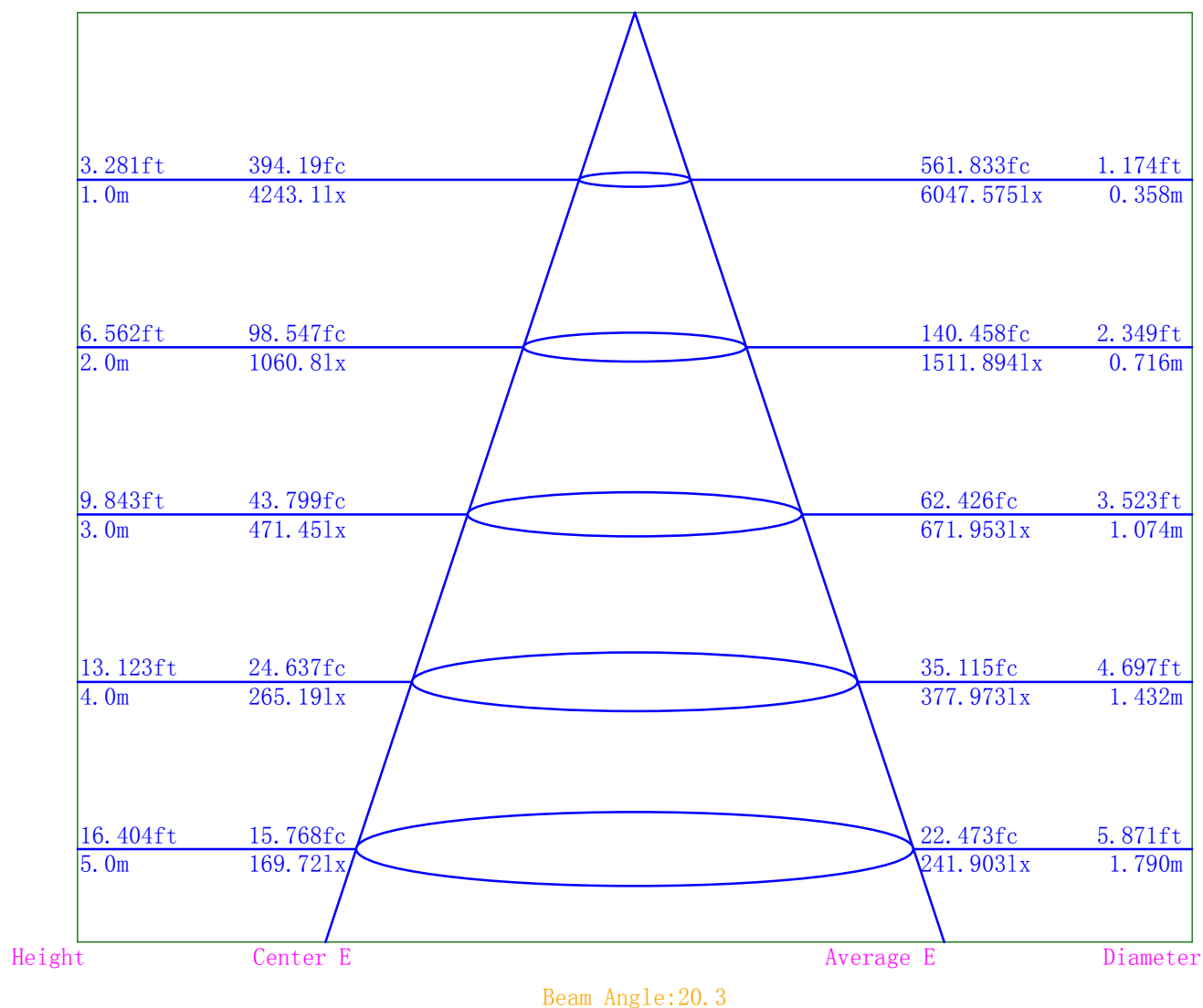
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Illuminance-Distance Diagram

| | | |
|------------------------------------------------|-----------------------|------------------------------|
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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: 2017/11/28 |

Illuminance-Distance Curve



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Indoor Luminance Limiting Curves

| | | |
|------------------------------------------------|-----------------------|------------------------------|
| Lum. Name: MD04-13W-15度-普瑞调色温 | Lum. Catalog: | Test ID: |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: SHENZHEN NORMING LIGHTING CO.,LTD | Test Machine:GON-2000 | Test Date: 2017/11/28 |

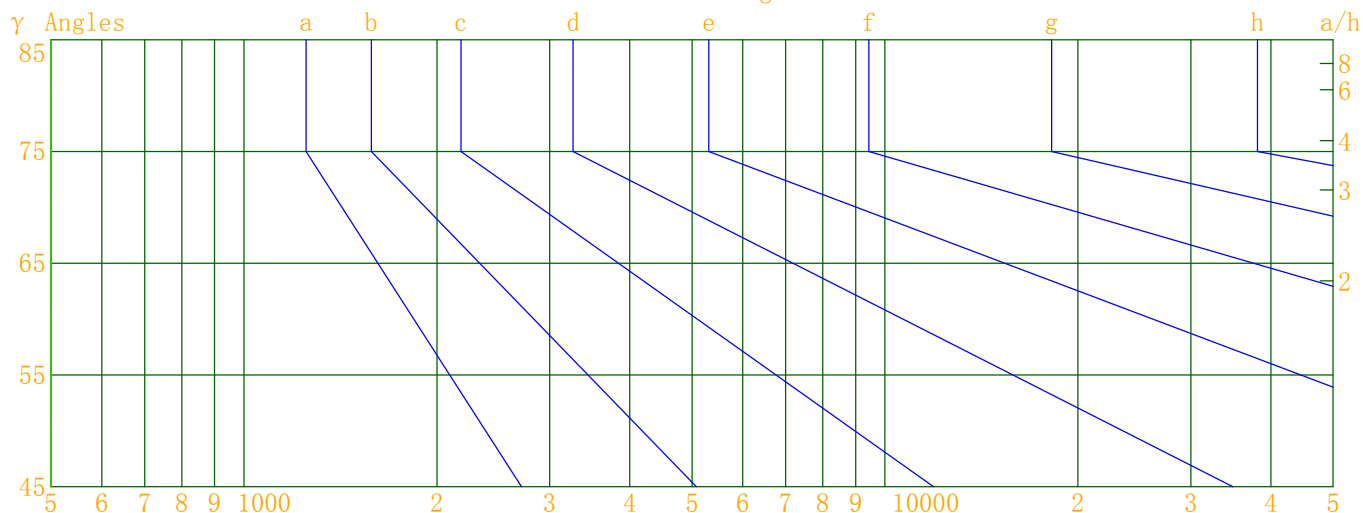
Glare Grade Table

| 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



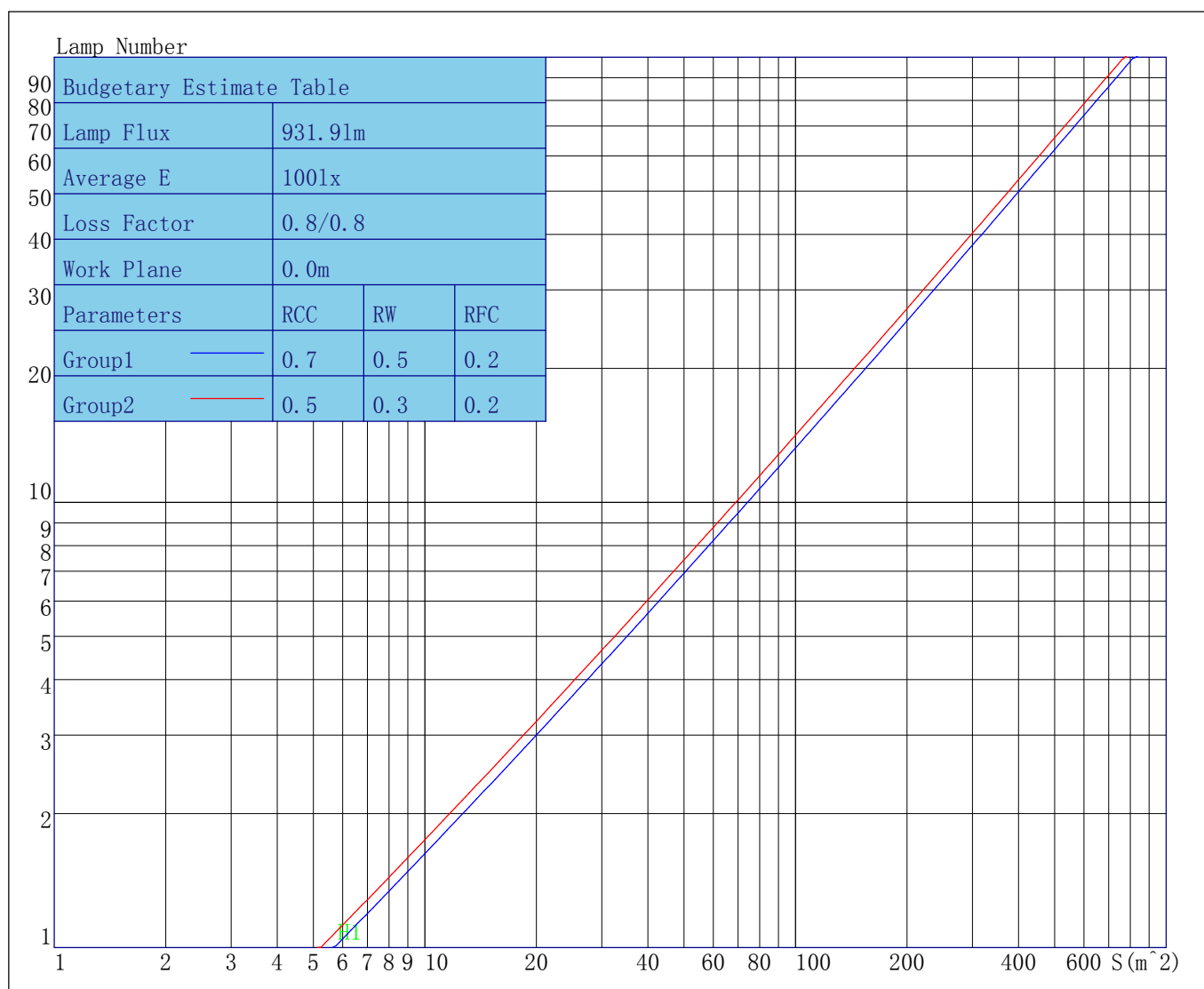
Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m^2)=0.000000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

IES Indoor Report

Photometric Filename:MD04-13W-15度-普瑞调色温.IES

Indoor Budgetary Estimate Table

| | | |
|------------------------------------------------|-----------------------|------------------------------|
| Lum. Name: MD04-13W-15度-普瑞调色温 | Lum. Catalog: | Test ID: |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: SHENZHEN NORMING LIGHTING CO.,LTD | Test Machine:GON-2000 | Test Date: 2017/11/28 |



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:MD04-13W-15度-普瑞调色温.IES

Indoor Coefficient of Utilization Table

| | | |
|------------------------------------------------|-----------------------|------------------------------|
| Lum. Name: MD04-13W-15度-普瑞调色温 | Lum. Catalog: | Test ID: |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: SHENZHEN NORMING LIGHTING CO.,LTD | Test Machine:GON-2000 | Test Date: 2017/11/28 |

| Coefficients of Utilization - Zonal Cavity Method | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Coef. | Effective Floor Cavity Reflectance RFC=0.20 | | | | | | | | | | | | | | | | | |
| RhoCC (%) | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
| RhoW (%) | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | Coefficient of Utilization(%) | | | | | | | | | | | | | | | | | |
| 0 | 127 | 127 | 127 | 127 | 124 | 124 | 124 | 124 | 117 | 117 | 117 | 111 | 111 | 111 | 106 | 106 | 106 | 103 |
| 1 | 122 | 119 | 116 | 114 | 118 | 116 | 114 | 112 | 111 | 109 | 107 | 106 | 105 | 103 | 102 | 101 | 100 | 98 |
| 2 | 116 | 112 | 108 | 104 | 114 | 109 | 106 | 103 | 105 | 102 | 100 | 101 | 99 | 97 | 98 | 96 | 95 | 93 |
| 3 | 112 | 106 | 101 | 97 | 109 | 104 | 99 | 96 | 100 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 88 |
| 4 | 107 | 100 | 95 | 91 | 105 | 99 | 94 | 90 | 96 | 92 | 89 | 93 | 90 | 87 | 91 | 88 | 86 | 84 |
| 5 | 103 | 96 | 90 | 86 | 101 | 94 | 90 | 86 | 92 | 88 | 85 | 90 | 86 | 84 | 88 | 85 | 83 | 81 |
| 6 | 100 | 92 | 86 | 82 | 98 | 91 | 86 | 82 | 89 | 84 | 81 | 87 | 83 | 80 | 85 | 82 | 79 | 78 |
| 7 | 96 | 88 | 83 | 79 | 95 | 87 | 82 | 79 | 86 | 81 | 78 | 84 | 80 | 77 | 83 | 79 | 77 | 75 |
| 8 | 93 | 85 | 80 | 76 | 92 | 84 | 79 | 76 | 83 | 78 | 75 | 81 | 77 | 75 | 80 | 77 | 74 | 73 |
| 9 | 90 | 82 | 77 | 73 | 89 | 81 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 72 | 78 | 74 | 72 | 70 |
| 10 | 88 | 79 | 74 | 71 | 86 | 79 | 74 | 71 | 78 | 73 | 70 | 76 | 73 | 70 | 76 | 72 | 70 | 68 |

IES Indoor Report

Photometric Filename:MD04-13W-15度-普瑞调色温.IES

Unified Glare Rating Table

| | | |
|------------------------------------------------|-----------------------|------------------------------|
| Lum. Name: MD04-13W-15度-普瑞调色温 | Lum. Catalog: | Test ID: |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: SHENZHEN NORMING LIGHTING CO.,LTD | Test Machine:GON-2000 | Test Date: 2017/11/28 |

Unified Glare Rating Table

| | | | | | | | | | | |
|---------------------------------------------------|-----------------|------|------|------|------|---------------|------|------|------|------|
| Ceiling RCC | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
| Wall RW | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 |
| Floor RFC | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Room Size | Vewed crosswise | | | | | Vewed endwise | | | | |
| X=2H Y=2H | -1.8 | -0.7 | -1.3 | -0.3 | 0.1 | -1.8 | -0.7 | -1.3 | -0.3 | 0.1 |
| Y=3H | -2.0 | -1.0 | -1.5 | -0.6 | -0.1 | -2.0 | -1.0 | -1.5 | -0.6 | -0.1 |
| Y=4H | -2.1 | -1.2 | -1.6 | -0.7 | -0.2 | -2.1 | -1.2 | -1.6 | -0.7 | -0.2 |
| Y=6H | -2.2 | -1.3 | -1.7 | -0.9 | -0.4 | -2.2 | -1.3 | -1.7 | -0.9 | -0.4 |
| Y=8H | -2.3 | -1.4 | -1.8 | -1.0 | -0.5 | -2.3 | -1.4 | -1.8 | -1.0 | -0.5 |
| Y=12H | -2.3 | -1.5 | -1.8 | -1.1 | -0.5 | -2.3 | -1.5 | -1.8 | -1.1 | -0.5 |
| X=4H Y=2H | -2.1 | -1.2 | -1.6 | -0.7 | -0.2 | -2.1 | -1.2 | -1.6 | -0.7 | -0.2 |
| Y=3H | -2.3 | -1.5 | -1.8 | -1.0 | -0.5 | -2.3 | -1.5 | -1.8 | -1.0 | -0.5 |
| Y=4H | -2.4 | -1.7 | -1.9 | -1.2 | -0.7 | -2.4 | -1.7 | -1.9 | -1.2 | -0.7 |
| Y=6H | -2.5 | -1.9 | -2.0 | -1.4 | -0.8 | -2.5 | -1.9 | -2.0 | -1.4 | -0.8 |
| Y=8H | -2.6 | -2.0 | -2.1 | -1.5 | -0.9 | -2.6 | -2.0 | -2.1 | -1.5 | -0.9 |
| Y=12H | -2.7 | -2.1 | -2.1 | -1.6 | -1.0 | -2.7 | -2.1 | -2.1 | -1.6 | -1.0 |
| X=8H Y=4H | -2.6 | -2.0 | -2.1 | -1.5 | -0.9 | -2.6 | -2.0 | -2.1 | -1.5 | -0.9 |
| Y=6H | -2.7 | -2.2 | -2.2 | -1.6 | -1.0 | -2.7 | -2.2 | -2.2 | -1.6 | -1.0 |
| Y=8H | -2.8 | -2.3 | -2.2 | -1.7 | -1.2 | -2.8 | -2.3 | -2.2 | -1.7 | -1.2 |
| Y=12H | -2.9 | -2.4 | -2.3 | -1.9 | -1.2 | -2.9 | -2.4 | -2.3 | -1.9 | -1.2 |
| X=12H Y=4H | -2.7 | -2.1 | -2.1 | -1.6 | -1.0 | -2.7 | -2.1 | -2.1 | -1.6 | -1.0 |
| Y=6H | -2.8 | -2.3 | -2.2 | -1.8 | -1.1 | -2.8 | -2.3 | -2.2 | -1.8 | -1.1 |
| Y=8H | -2.9 | -2.4 | -2.3 | -1.9 | -1.2 | -2.9 | -2.4 | -2.3 | -1.9 | -1.2 |
| 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 | | | | |

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

IES Indoor Report

Photometric Filename:MD04-13W-15度-普瑞调色温.IES

Candela Tabulation

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|---------|---------|---------|---------|
| γ 0.0 | 4243.06 | 4243.06 | 4243.06 | 4243.06 |
| γ 1.0 | 4261.72 | 4086.71 | 4199.85 | 4177.40 |
| γ 2.0 | 4157.96 | 3943.21 | 4078.50 | 4108.51 |
| γ 3.0 | 3964.57 | 3744.59 | 3895.94 | 3980.96 |
| γ 4.0 | 3728.83 | 3481.59 | 3663.54 | 3776.58 |
| γ 5.0 | 3460.83 | 3201.99 | 3389.47 | 3525.62 |
| γ 6.0 | 3205.77 | 2935.85 | 3123.65 | 3253.24 |
| γ 7.0 | 2953.31 | 2690.06 | 2867.37 | 2996.00 |
| γ 8.0 | 2703.08 | 2447.02 | 2616.83 | 2752.27 |
| γ 9.0 | 2447.79 | 2216.36 | 2364.20 | 2517.53 |
| γ 10.0 | 2205.86 | 1988.99 | 2126.31 | 2291.15 |
| γ 11.0 | 1964.86 | 1770.83 | 1894.36 | 2064.93 |
| γ 12.0 | 1736.98 | 1565.61 | 1686.07 | 1843.27 |
| γ 13.0 | 1518.91 | 1382.14 | 1485.00 | 1630.57 |
| γ 14.0 | 1325.21 | 1212.54 | 1310.21 | 1435.92 |
| γ 15.0 | 1150.01 | 1067.41 | 1148.85 | 1262.66 |
| γ 16.0 | 1000.83 | 936.81 | 1010.86 | 1107.96 |
| γ 17.0 | 868.22 | 825.02 | 886.18 | 966.54 |
| γ 18.0 | 755.52 | 723.92 | 779.24 | 844.25 |
| γ 19.0 | 653.89 | 637.62 | 683.92 | 738.13 |
| γ 20.0 | 567.92 | 559.60 | 602.45 | 645.75 |
| γ 21.0 | 492.72 | 491.70 | 531.44 | 566.74 |
| γ 22.0 | 429.12 | 432.25 | 471.07 | 499.69 |
| γ 23.0 | 374.08 | 381.06 | 416.19 | 438.91 |
| γ 24.0 | 327.07 | 335.12 | 368.10 | 386.31 |
| γ 25.0 | 285.29 | 295.01 | 324.54 | 339.40 |
| γ 26.0 | 249.65 | 258.46 | 286.66 | 297.67 |
| γ 27.0 | 217.69 | 226.27 | 252.69 | 262.58 |
| γ 28.0 | 189.72 | 197.53 | 221.85 | 231.24 |
| γ 29.0 | 165.62 | 172.72 | 195.15 | 204.04 |
| γ 30.0 | 145.35 | 151.09 | 171.60 | 180.38 |
| γ 31.0 | 127.62 | 132.62 | 150.81 | 159.73 |
| γ 32.0 | 112.67 | 116.28 | 133.26 | 141.74 |
| γ 33.0 | 99.70 | 102.56 | 117.85 | 125.93 |
| γ 34.0 | 88.58 | 90.54 | 104.37 | 111.61 |
| γ 35.0 | 78.85 | 80.22 | 92.76 | 99.04 |
| γ 36.0 | 70.60 | 71.24 | 83.10 | 87.99 |
| γ 37.0 | 63.38 | 63.64 | 74.48 | 78.55 |
| γ 38.0 | 57.44 | 57.04 | 66.72 | 70.44 |
| γ 39.0 | 52.23 | 51.51 | 59.76 | 63.51 |
| γ 40.0 | 47.54 | 46.55 | 53.95 | 57.55 |
| γ 41.0 | 43.48 | 42.45 | 48.74 | 52.44 |
| γ 42.0 | 39.97 | 38.85 | 44.27 | 47.73 |
| γ 43.0 | 36.90 | 35.87 | 40.32 | 43.78 |
| γ 44.0 | 34.21 | 33.32 | 36.94 | 40.54 |
| γ 45.0 | 31.86 | 31.05 | 34.28 | 37.64 |
| γ 46.0 | 29.98 | 29.26 | 32.00 | 35.03 |

IES Indoor Report

Photometric Filename:MD04-13W-15度-普瑞调色温.IES

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|-------|-------|--------|--------|
| γ 47.0 | 28.26 | 27.62 | 29.94 | 32.86 |
| γ 48.0 | 26.78 | 26.21 | 28.29 | 30.98 |
| γ 49.0 | 25.58 | 24.96 | 26.87 | 29.33 |
| γ 50.0 | 24.57 | 23.74 | 25.77 | 28.10 |
| γ 51.0 | 23.64 | 22.80 | 24.65 | 27.01 |
| γ 52.0 | 22.81 | 21.97 | 23.67 | 26.02 |
| γ 53.0 | 21.95 | 21.16 | 22.86 | 25.25 |
| γ 54.0 | 21.30 | 20.31 | 22.07 | 24.57 |
| γ 55.0 | 20.68 | 19.64 | 21.32 | 23.99 |
| γ 56.0 | 20.05 | 19.02 | 20.68 | 23.43 |
| γ 57.0 | 19.37 | 18.32 | 20.11 | 22.85 |
| γ 58.0 | 18.82 | 17.71 | 19.55 | 22.26 |
| γ 59.0 | 18.20 | 17.15 | 19.02 | 21.66 |
| γ 60.0 | 17.57 | 16.60 | 18.43 | 20.89 |
| γ 61.0 | 17.14 | 16.05 | 17.80 | 20.28 |
| γ 62.0 | 16.55 | 15.52 | 17.24 | 19.66 |
| γ 63.0 | 15.94 | 14.94 | 16.54 | 19.01 |
| γ 64.0 | 15.48 | 14.42 | 16.06 | 18.27 |
| γ 65.0 | 14.95 | 13.80 | 15.49 | 17.68 |
| γ 66.0 | 14.45 | 13.37 | 14.97 | 17.05 |
| γ 67.0 | 14.01 | 12.78 | 14.34 | 16.29 |
| γ 68.0 | 13.48 | 12.25 | 13.79 | 15.61 |
| γ 69.0 | 12.97 | 11.77 | 13.14 | 14.82 |
| γ 70.0 | 12.41 | 11.27 | 12.60 | 14.24 |
| γ 71.0 | 11.95 | 10.84 | 12.03 | 13.50 |
| γ 72.0 | 11.41 | 10.35 | 11.44 | 12.87 |
| γ 73.0 | 10.87 | 9.86 | 10.88 | 12.26 |
| γ 74.0 | 10.42 | 9.31 | 10.33 | 11.61 |
| γ 75.0 | 9.90 | 8.85 | 9.80 | 10.98 |
| γ 76.0 | 9.40 | 8.42 | 9.19 | 10.42 |
| γ 77.0 | 8.85 | 7.84 | 8.51 | 9.77 |
| γ 78.0 | 8.29 | 7.22 | 7.87 | 9.01 |
| γ 79.0 | 7.70 | 6.81 | 7.28 | 8.32 |
| γ 80.0 | 7.51 | 6.63 | 7.03 | 7.76 |
| γ 81.0 | 7.33 | 6.51 | 6.83 | 7.68 |
| γ 82.0 | 7.15 | 6.40 | 6.62 | 7.45 |
| γ 83.0 | 6.96 | 6.25 | 6.48 | 7.28 |
| γ 84.0 | 6.83 | 6.13 | 6.39 | 7.05 |
| γ 85.0 | 6.73 | 6.02 | 6.16 | 6.95 |
| γ 86.0 | 6.63 | 5.89 | 6.09 | 6.81 |
| γ 87.0 | 6.49 | 5.80 | 5.92 | 6.68 |
| γ 88.0 | 6.26 | 5.59 | 5.70 | 6.56 |
| γ 89.0 | 6.09 | 5.45 | 5.61 | 6.25 |
| γ 90.0 | 5.96 | 5.38 | 5.43 | 6.03 |
| γ 91.0 | 5.86 | 5.28 | 5.30 | 5.92 |
| γ 92.0 | 5.76 | 5.28 | 5.28 | 5.87 |
| γ 93.0 | 5.74 | 5.26 | 5.19 | 5.72 |

IES Indoor Report

Photometric Filename:MD04-13W-15度-普瑞调色温.IES

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 94.0 | 5.66 | 5.22 | 5.02 | 5.64 |
| γ 95.0 | 5.60 | 5.10 | 4.97 | 5.55 |
| γ 96.0 | 5.59 | 5.04 | 4.91 | 5.50 |
| γ 97.0 | 5.53 | 5.05 | 4.93 | 5.44 |
| γ 98.0 | 5.44 | 5.02 | 4.84 | 5.37 |
| γ 99.0 | 5.34 | 4.95 | 4.80 | 5.29 |
| γ 100.0 | 5.35 | 4.90 | 4.75 | 5.23 |
| γ 101.0 | 5.37 | 4.93 | 4.66 | 5.19 |
| γ 102.0 | 5.30 | 4.88 | 4.64 | 5.14 |
| γ 103.0 | 5.21 | 4.86 | 4.59 | 5.04 |
| γ 104.0 | 5.16 | 4.83 | 4.62 | 5.10 |
| γ 105.0 | 5.14 | 4.78 | 4.63 | 5.02 |
| γ 106.0 | 5.15 | 4.81 | 4.59 | 4.99 |
| γ 107.0 | 5.09 | 4.74 | 4.52 | 4.97 |
| γ 108.0 | 5.03 | 4.76 | 4.59 | 5.03 |
| γ 109.0 | 5.07 | 4.73 | 4.43 | 4.91 |
| γ 110.0 | 4.99 | 4.70 | 4.50 | 4.95 |
| γ 111.0 | 4.95 | 4.65 | 4.46 | 4.91 |
| γ 112.0 | 4.89 | 4.64 | 4.57 | 4.93 |
| γ 113.0 | 4.97 | 4.61 | 4.50 | 4.93 |
| γ 114.0 | 4.90 | 4.64 | 4.48 | 4.87 |
| γ 115.0 | 4.89 | 4.52 | 4.41 | 4.77 |
| γ 116.0 | 4.85 | 4.59 | 4.47 | 4.89 |
| γ 117.0 | 4.79 | 4.52 | 4.56 | 4.93 |
| γ 118.0 | 4.80 | 4.55 | 4.53 | 4.84 |
| γ 119.0 | 4.79 | 4.53 | 4.51 | 4.89 |
| γ 120.0 | 4.82 | 4.49 | 4.62 | 4.89 |
| γ 121.0 | 4.78 | 4.53 | 4.64 | 4.85 |
| γ 122.0 | 4.73 | 4.54 | 4.65 | 4.97 |
| γ 123.0 | 4.75 | 4.55 | 4.71 | 4.96 |
| γ 124.0 | 4.79 | 4.61 | 4.78 | 5.02 |
| γ 125.0 | 4.80 | 4.71 | 4.73 | 5.14 |
| γ 126.0 | 4.86 | 4.73 | 4.91 | 5.11 |
| γ 127.0 | 4.93 | 4.82 | 4.92 | 5.21 |
| γ 128.0 | 4.89 | 4.84 | 5.00 | 5.24 |
| γ 129.0 | 5.08 | 5.01 | 5.07 | 5.36 |
| γ 130.0 | 5.14 | 5.03 | 5.22 | 5.39 |
| γ 131.0 | 5.27 | 5.18 | 5.30 | 5.48 |
| γ 132.0 | 5.35 | 5.20 | 5.49 | 5.61 |
| γ 133.0 | 5.39 | 5.37 | 5.59 | 5.75 |
| γ 134.0 | 5.57 | 5.49 | 5.68 | 5.84 |
| γ 135.0 | 5.67 | 5.68 | 5.89 | 5.95 |
| γ 136.0 | 5.82 | 5.77 | 6.05 | 6.13 |
| γ 137.0 | 6.01 | 6.07 | 6.18 | 6.37 |
| γ 138.0 | 6.12 | 6.17 | 6.40 | 6.48 |
| γ 139.0 | 6.33 | 6.36 | 6.58 | 6.69 |
| γ 140.0 | 6.45 | 6.67 | 6.76 | 6.76 |

IES Indoor Report

Photometric Filename:MD04-13W-15度-普瑞调色温.IES

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 141.0 | 6.67 | 6.78 | 7.07 | 7.05 |
| γ 142.0 | 6.94 | 7.03 | 7.29 | 7.28 |
| γ 143.0 | 7.09 | 7.22 | 7.41 | 7.43 |
| γ 144.0 | 7.37 | 7.36 | 7.65 | 7.66 |
| γ 145.0 | 7.57 | 7.57 | 7.92 | 7.86 |
| γ 146.0 | 7.73 | 7.77 | 8.07 | 8.08 |
| γ 147.0 | 8.01 | 7.87 | 8.24 | 8.25 |
| γ 148.0 | 8.17 | 8.13 | 8.44 | 8.43 |
| γ 149.0 | 8.33 | 8.23 | 8.63 | 8.55 |
| γ 150.0 | 8.49 | 8.44 | 8.75 | 8.73 |
| γ 151.0 | 8.72 | 8.52 | 8.90 | 8.89 |
| γ 152.0 | 8.79 | 8.59 | 9.05 | 8.96 |
| γ 153.0 | 8.94 | 8.80 | 9.19 | 9.16 |
| γ 154.0 | 9.07 | 8.90 | 9.23 | 9.23 |
| γ 155.0 | 9.19 | 9.02 | 9.36 | 9.35 |
| γ 156.0 | 9.34 | 9.11 | 9.54 | 9.37 |
| γ 157.0 | 9.41 | 9.20 | 9.55 | 9.45 |
| γ 158.0 | 9.52 | 9.21 | 9.60 | 9.56 |
| γ 159.0 | 9.51 | 9.33 | 9.70 | 9.54 |
| γ 160.0 | 9.59 | 9.36 | 9.71 | 9.65 |
| γ 161.0 | 9.62 | 9.44 | 9.73 | 9.74 |
| γ 162.0 | 9.70 | 9.44 | 9.80 | 9.68 |
| γ 163.0 | 9.70 | 9.50 | 9.78 | 9.70 |
| γ 164.0 | 9.78 | 9.62 | 9.86 | 9.76 |
| γ 165.0 | 9.77 | 9.62 | 9.79 | 9.79 |
| γ 166.0 | 9.76 | 9.61 | 9.85 | 9.75 |
| γ 167.0 | 9.83 | 9.58 | 9.84 | 9.79 |
| γ 168.0 | 9.82 | 9.66 | 9.82 | 9.82 |
| γ 169.0 | 9.71 | 9.68 | 9.88 | 9.83 |
| γ 170.0 | 9.79 | 9.63 | 9.85 | 9.83 |
| γ 171.0 | 9.72 | 9.62 | 9.73 | 9.79 |
| γ 172.0 | 9.71 | 9.57 | 9.71 | 9.79 |
| γ 173.0 | 9.71 | 9.68 | 9.78 | 9.73 |
| γ 174.0 | 9.71 | 9.55 | 9.62 | 9.78 |
| γ 175.0 | 9.65 | 9.53 | 9.67 | 9.74 |
| γ 176.0 | 9.64 | 9.61 | 9.63 | 9.67 |
| γ 177.0 | 9.66 | 9.56 | 9.58 | 9.70 |
| γ 178.0 | 9.64 | 9.54 | 9.57 | 9.69 |
| γ 179.0 | 9.64 | 9.58 | 9.52 | 9.70 |
| γ 180.0 | 9.56 | 9.56 | 9.56 | 9.56 |