

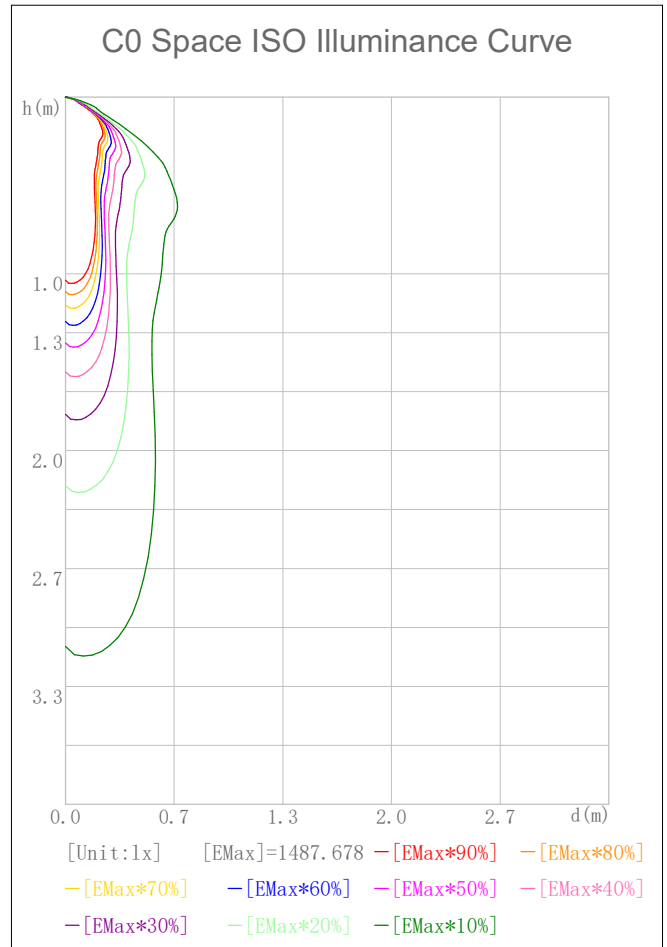
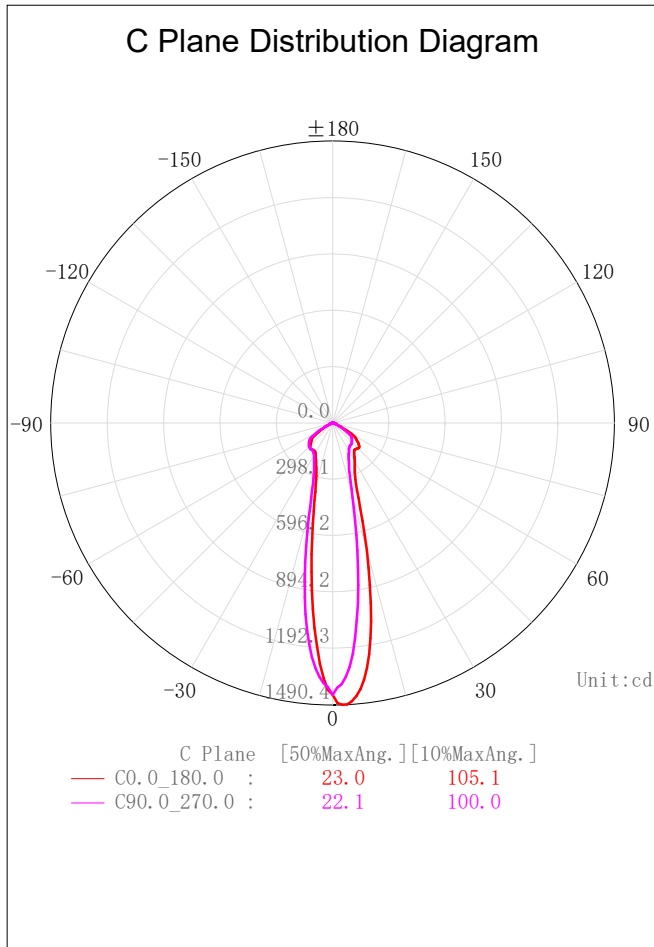
Indoor Luminaire Photometric Data

Description Information

| | | | |
|--|---------------------------------|---------------------|-----------------------|
| Luminary Name: LED Lamp | | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | | Lamp Catalog: LED | Test Date: 2024/01/15 |
| Manufacture: NORDECOR | | Shld. Ang(°): | Test Machine:GON-2000 |
| Test Lab: volnic | | 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(%): 60.0 |

Character Parameter

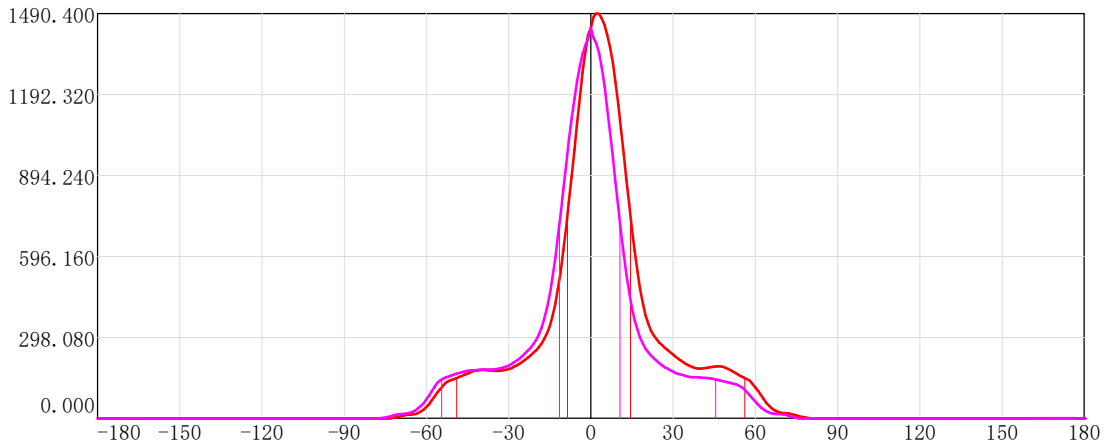
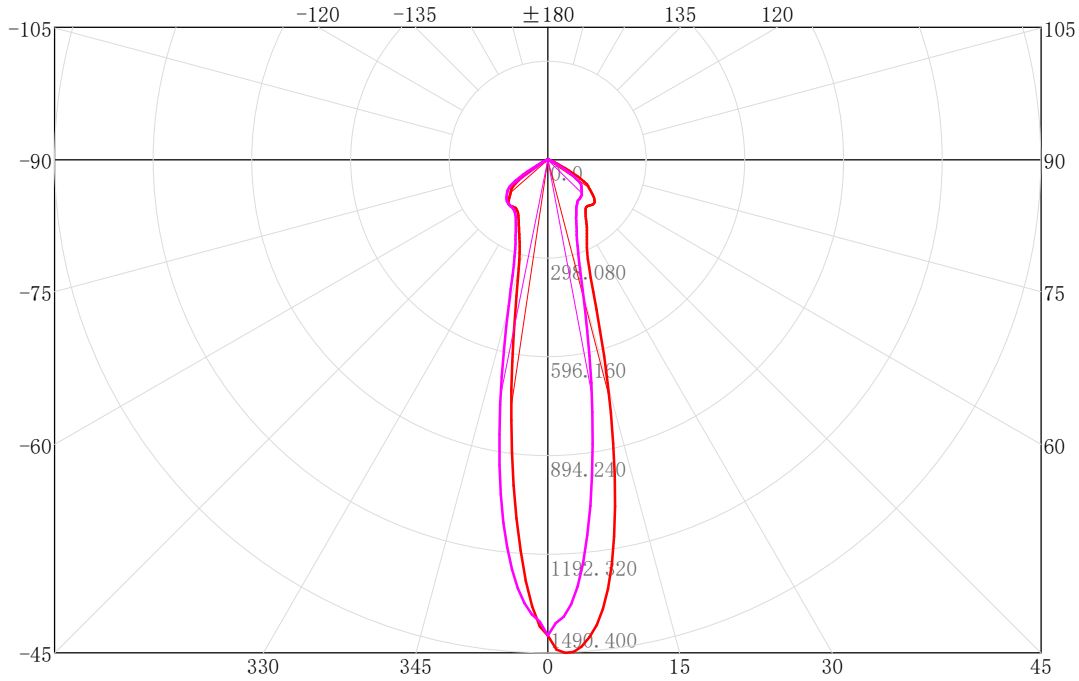
| Lamp Speciality Parameter | | Luminaire Speciality Parameter | |
|--|--|---------------------------------------|--------------------------------|
| Rated Flux(lm): 720.000 | Luminary Flux(lm): 741.157 | Field Angle(10%Imax): 105.1(°) | |
| Rated Power(W): | Luminary Efficiency: 102.94% | Down Lumens&Percent: 740.888lm 99.96% | |
| Rated Voltage(V): | Luminary EER(lm/W): 68.372 | Up Lumens&Percent: 0.2681m 0.04% | |
| Tested Power(W): 10.840 | Max. Candela(cd): 1490.400 | S/MH: C0_a180=0.400 C90_270=0.374 | |
| Lamps' Inside: 1 | Max Cand@Ang. (°): C=0.0 γ =2.0 | CIE Type: Semi-Direct | |
| Tested Electrics(V, A, pf):126.7, 0.105, 0.814 | | Beam Angle(50%Imax): 23.0(°) | ErP Φ use(90°): 505.9681m |
| Lamp Size(W*L*H):0.000m*0.000m*0.000m | | Left=-8.5°, Right=14.5° | IRF(%): 486.407 |



2D Plane Light Intensity Distribution Curve

| | | |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | Lamp Catalog: LED | Test Lab: volnic |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/15 |

C Plane Distribution Diagram

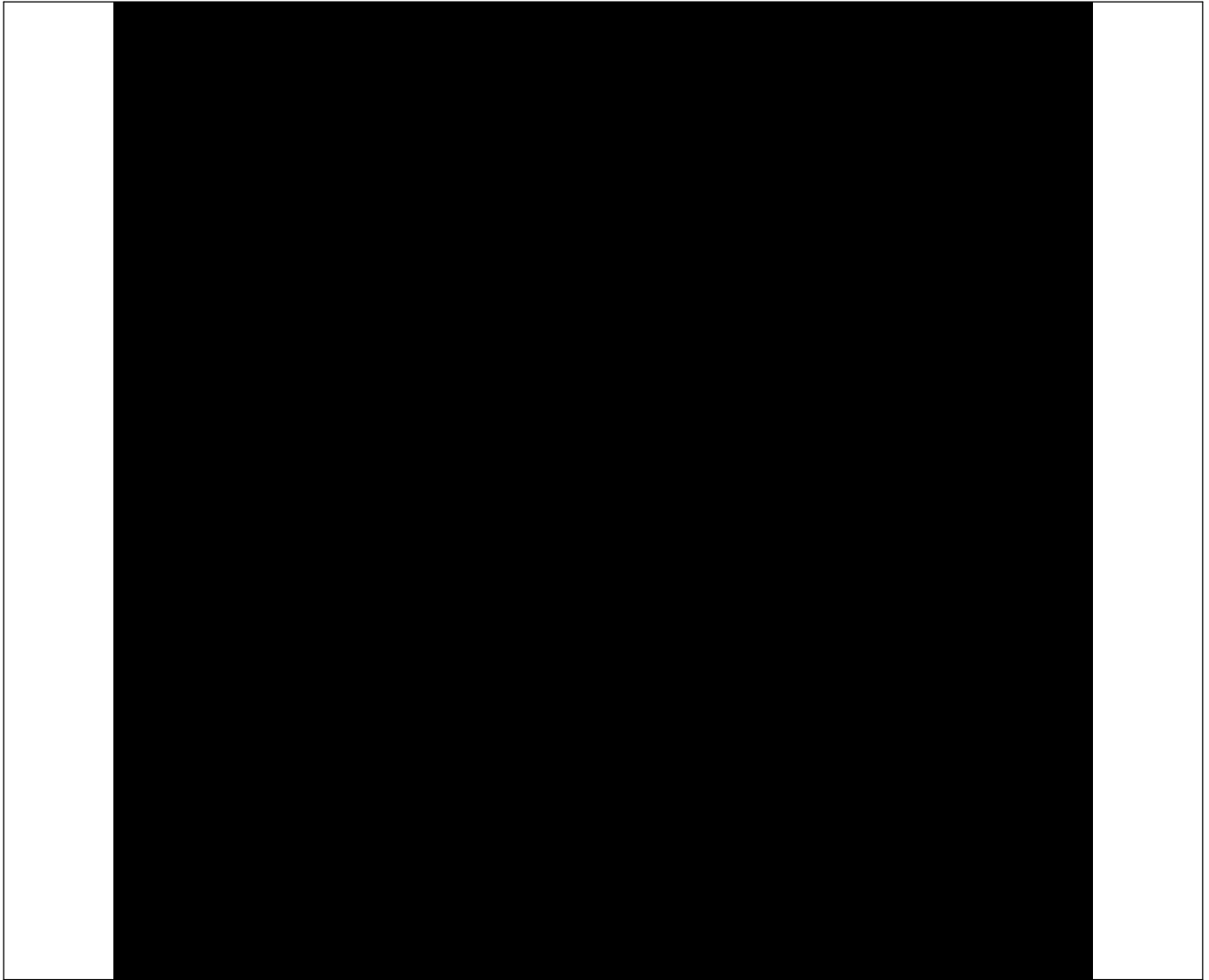


| | | | | |
|---|---------------|--------------|--------------|---------|
| | C Plane | [50%MaxAng.] | [10%MaxAng.] | Unit:cd |
| — | C0.0_180.0 : | 23.0 | 105.1 | |
| — | C90.0_270.0 : | 22.1 | 100.0 | |

3D Light Intensity Distribution Modal

| | | |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | Lamp Catalog: LED | Test Lab: volnic |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/15 |

3D Light Intensity Distribution Modal



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

IES Indoor Report

Photometric Filename:1151.IES

Zonal Flux Tabulation

| Zone (γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone (γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|-----------|----------------|----------------|-----------|-----------|-----------|----------------|----------------|-----------|-----------|
| 0.0-1.0 | 1.37 | 1.37 | 0.19 | 0.19 | 47.0-48.0 | 13.21 | 565.78 | 1.83 | 78.58 |
| 1.0-2.0 | 4.05 | 5.42 | 0.56 | 0.75 | 48.0-49.0 | 13.18 | 578.96 | 1.83 | 80.41 |
| 2.0-3.0 | 6.60 | 12.02 | 0.92 | 1.67 | 49.0-50.0 | 13.11 | 592.07 | 1.82 | 82.23 |
| 3.0-4.0 | 8.95 | 20.97 | 1.24 | 2.91 | 50.0-51.0 | 13.02 | 605.09 | 1.81 | 84.04 |
| 4.0-5.0 | 11.02 | 31.99 | 1.53 | 4.44 | 51.0-52.0 | 12.88 | 617.97 | 1.79 | 85.83 |
| 5.0-6.0 | 12.77 | 44.76 | 1.77 | 6.22 | 52.0-53.0 | 12.68 | 630.66 | 1.76 | 87.59 |
| 6.0-7.0 | 14.18 | 58.94 | 1.97 | 8.19 | 53.0-54.0 | 12.36 | 643.02 | 1.72 | 89.31 |
| 7.0-8.0 | 15.21 | 74.15 | 2.11 | 10.30 | 54.0-55.0 | 11.90 | 654.92 | 1.65 | 90.96 |
| 8.0-9.0 | 15.86 | 90.01 | 2.20 | 12.50 | 55.0-56.0 | 11.31 | 666.23 | 1.57 | 92.53 |
| 9.0-10.0 | 16.14 | 106.15 | 2.24 | 14.74 | 56.0-57.0 | 10.53 | 676.76 | 1.46 | 93.99 |
| 10.0-11.0 | 16.09 | 122.24 | 2.23 | 16.98 | 57.0-58.0 | 9.59 | 686.35 | 1.33 | 95.33 |
| 11.0-12.0 | 15.78 | 138.02 | 2.19 | 19.17 | 58.0-59.0 | 8.55 | 694.90 | 1.19 | 96.51 |
| 12.0-13.0 | 15.26 | 153.28 | 2.12 | 21.29 | 59.0-60.0 | 7.44 | 702.34 | 1.03 | 97.55 |
| 13.0-14.0 | 14.61 | 167.89 | 2.03 | 23.32 | 60.0-61.0 | 6.36 | 708.70 | 0.88 | 98.43 |
| 14.0-15.0 | 13.91 | 181.79 | 1.93 | 25.25 | 61.0-62.0 | 5.36 | 714.07 | 0.74 | 99.18 |
| 15.0-16.0 | 13.20 | 195.00 | 1.83 | 27.08 | 62.0-63.0 | 4.43 | 718.49 | 0.61 | 99.79 |
| 16.0-17.0 | 12.54 | 207.54 | 1.74 | 28.83 | 63.0-64.0 | 3.61 | 722.10 | 0.50 | 100.29 |
| 17.0-18.0 | 11.97 | 219.51 | 1.66 | 30.49 | 64.0-65.0 | 2.97 | 725.07 | 0.41 | 100.70 |
| 18.0-19.0 | 11.51 | 231.01 | 1.60 | 32.09 | 65.0-66.0 | 2.51 | 727.57 | 0.35 | 101.05 |
| 19.0-20.0 | 11.18 | 242.19 | 1.55 | 33.64 | 66.0-67.0 | 2.17 | 729.74 | 0.30 | 101.35 |
| 20.0-21.0 | 10.95 | 253.15 | 1.52 | 35.16 | 67.0-68.0 | 1.93 | 731.67 | 0.27 | 101.62 |
| 21.0-22.0 | 10.81 | 263.96 | 1.50 | 36.66 | 68.0-69.0 | 1.75 | 733.42 | 0.24 | 101.86 |
| 22.0-23.0 | 10.74 | 274.69 | 1.49 | 38.15 | 69.0-70.0 | 1.59 | 735.00 | 0.22 | 102.08 |
| 23.0-24.0 | 10.69 | 285.38 | 1.48 | 39.64 | 70.0-71.0 | 1.42 | 736.43 | 0.20 | 102.28 |
| 24.0-25.0 | 10.67 | 296.06 | 1.48 | 41.12 | 71.0-72.0 | 1.23 | 737.65 | 0.17 | 102.45 |
| 25.0-26.0 | 10.67 | 306.73 | 1.48 | 42.60 | 72.0-73.0 | 1.00 | 738.65 | 0.14 | 102.59 |
| 26.0-27.0 | 10.67 | 317.39 | 1.48 | 44.08 | 73.0-74.0 | 0.76 | 739.41 | 0.11 | 102.70 |
| 27.0-28.0 | 10.70 | 328.09 | 1.49 | 45.57 | 74.0-75.0 | 0.55 | 739.95 | 0.08 | 102.77 |
| 28.0-29.0 | 10.73 | 338.82 | 1.49 | 47.06 | 75.0-76.0 | 0.37 | 740.33 | 0.05 | 102.82 |
| 29.0-30.0 | 10.75 | 349.57 | 1.49 | 48.55 | 76.0-77.0 | 0.24 | 740.57 | 0.03 | 102.86 |
| 30.0-31.0 | 10.79 | 360.35 | 1.50 | 50.05 | 77.0-78.0 | 0.16 | 740.73 | 0.02 | 102.88 |
| 31.0-32.0 | 10.84 | 371.20 | 1.51 | 51.56 | 78.0-79.0 | 0.10 | 740.83 | 0.01 | 102.89 |
| 32.0-33.0 | 10.92 | 382.11 | 1.52 | 53.07 | 79.0-80.0 | 0.04 | 740.87 | 0.01 | 102.90 |
| 33.0-34.0 | 11.01 | 393.12 | 1.53 | 54.60 | 80.0-81.0 | 0.01 | 740.88 | 0.00 | 102.90 |
| 34.0-35.0 | 11.13 | 404.25 | 1.55 | 56.15 | 81.0-82.0 | 0.01 | 740.89 | 0.00 | 102.90 |
| 35.0-36.0 | 11.27 | 415.52 | 1.57 | 57.71 | 82.0-83.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 36.0-37.0 | 11.44 | 426.96 | 1.59 | 59.30 | 83.0-84.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 37.0-38.0 | 11.64 | 438.60 | 1.62 | 60.92 | 84.0-85.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 38.0-39.0 | 11.86 | 450.46 | 1.65 | 62.56 | 85.0-86.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 39.0-40.0 | 12.10 | 462.56 | 1.68 | 64.24 | 86.0-87.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 40.0-41.0 | 12.34 | 474.90 | 1.71 | 65.96 | 87.0-88.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 41.0-42.0 | 12.56 | 487.46 | 1.74 | 67.70 | 88.0-89.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 42.0-43.0 | 12.77 | 500.23 | 1.77 | 69.48 | 89.0-90.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 43.0-44.0 | 12.94 | 513.17 | 1.80 | 71.27 | 90.0-91.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 44.0-45.0 | 13.06 | 526.24 | 1.81 | 73.09 | 91.0-92.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 45.0-46.0 | 13.15 | 539.38 | 1.83 | 74.91 | 92.0-93.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 46.0-47.0 | 13.19 | 552.57 | 1.83 | 76.75 | 93.0-94.0 | 0.00 | 740.89 | 0.00 | 102.90 |

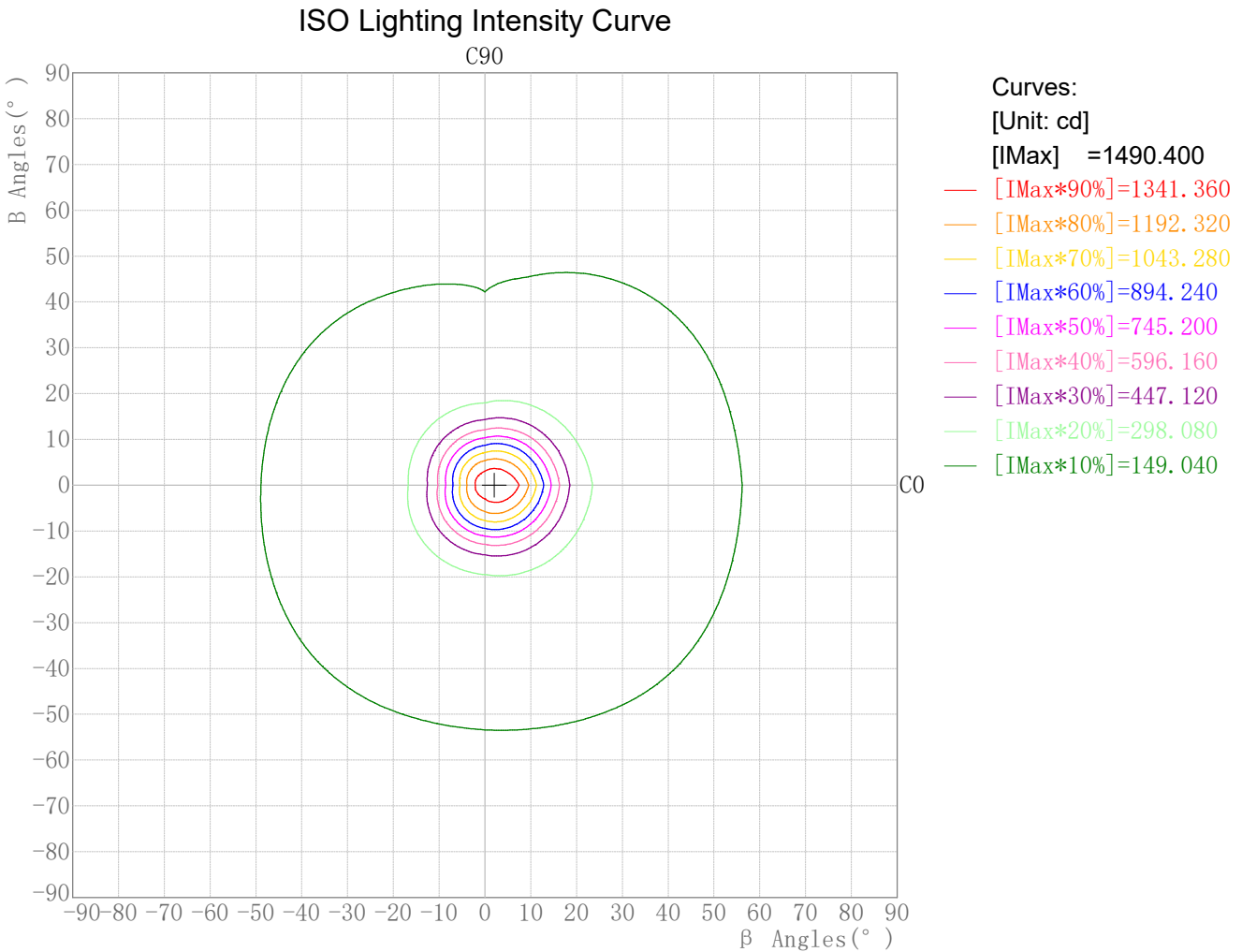
IES Indoor Report
Photometric Filename:1151.IES

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 | 740.89 | 0.00 | 102.90 | 141.0-142.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 95.0-96.0 | 0.00 | 740.89 | 0.00 | 102.90 | 142.0-143.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 96.0-97.0 | 0.00 | 740.89 | 0.00 | 102.90 | 143.0-144.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 97.0-98.0 | 0.00 | 740.89 | 0.00 | 102.90 | 144.0-145.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 98.0-99.0 | 0.00 | 740.89 | 0.00 | 102.90 | 145.0-146.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 99.0-100.0 | 0.00 | 740.89 | 0.00 | 102.90 | 146.0-147.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 100.0-101.0 | 0.00 | 740.89 | 0.00 | 102.90 | 147.0-148.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 101.0-102.0 | 0.00 | 740.89 | 0.00 | 102.90 | 148.0-149.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 102.0-103.0 | 0.00 | 740.89 | 0.00 | 102.90 | 149.0-150.0 | 0.00 | 740.89 | 0.00 | 102.90 |
| 103.0-104.0 | 0.00 | 740.89 | 0.00 | 102.90 | 150.0-151.0 | 0.00 | 740.90 | 0.00 | 102.90 |
| 104.0-105.0 | 0.00 | 740.89 | 0.00 | 102.90 | 151.0-152.0 | 0.01 | 740.90 | 0.00 | 102.90 |
| 105.0-106.0 | 0.00 | 740.89 | 0.00 | 102.90 | 152.0-153.0 | 0.01 | 740.91 | 0.00 | 102.90 |
| 106.0-107.0 | 0.00 | 740.89 | 0.00 | 102.90 | 153.0-154.0 | 0.01 | 740.92 | 0.00 | 102.91 |
| 107.0-108.0 | 0.00 | 740.89 | 0.00 | 102.90 | 154.0-155.0 | 0.01 | 740.93 | 0.00 | 102.91 |
| 108.0-109.0 | 0.00 | 740.89 | 0.00 | 102.90 | 155.0-156.0 | 0.01 | 740.94 | 0.00 | 102.91 |
| 109.0-110.0 | 0.00 | 740.89 | 0.00 | 102.90 | 156.0-157.0 | 0.01 | 740.95 | 0.00 | 102.91 |
| 110.0-111.0 | 0.00 | 740.89 | 0.00 | 102.90 | 157.0-158.0 | 0.01 | 740.96 | 0.00 | 102.91 |
| 111.0-112.0 | 0.00 | 740.89 | 0.00 | 102.90 | 158.0-159.0 | 0.01 | 740.98 | 0.00 | 102.91 |
| 112.0-113.0 | 0.00 | 740.89 | 0.00 | 102.90 | 159.0-160.0 | 0.01 | 740.99 | 0.00 | 102.92 |
| 113.0-114.0 | 0.00 | 740.89 | 0.00 | 102.90 | 160.0-161.0 | 0.01 | 741.01 | 0.00 | 102.92 |
| 114.0-115.0 | 0.00 | 740.89 | 0.00 | 102.90 | 161.0-162.0 | 0.01 | 741.02 | 0.00 | 102.92 |
| 115.0-116.0 | 0.00 | 740.89 | 0.00 | 102.90 | 162.0-163.0 | 0.01 | 741.03 | 0.00 | 102.92 |
| 116.0-117.0 | 0.00 | 740.89 | 0.00 | 102.90 | 163.0-164.0 | 0.01 | 741.05 | 0.00 | 102.92 |
| 117.0-118.0 | 0.00 | 740.89 | 0.00 | 102.90 | 164.0-165.0 | 0.01 | 741.06 | 0.00 | 102.93 |
| 118.0-119.0 | 0.00 | 740.89 | 0.00 | 102.90 | 165.0-166.0 | 0.01 | 741.07 | 0.00 | 102.93 |
| 119.0-120.0 | 0.00 | 740.89 | 0.00 | 102.90 | 166.0-167.0 | 0.01 | 741.09 | 0.00 | 102.93 |
| 120.0-121.0 | 0.00 | 740.89 | 0.00 | 102.90 | 167.0-168.0 | 0.01 | 741.10 | 0.00 | 102.93 |
| 121.0-122.0 | 0.00 | 740.89 | 0.00 | 102.90 | 168.0-169.0 | 0.01 | 741.11 | 0.00 | 102.93 |
| 122.0-123.0 | 0.00 | 740.89 | 0.00 | 102.90 | 169.0-170.0 | 0.01 | 741.12 | 0.00 | 102.93 |
| 123.0-124.0 | 0.00 | 740.89 | 0.00 | 102.90 | 170.0-171.0 | 0.01 | 741.12 | 0.00 | 102.93 |
| 124.0-125.0 | 0.00 | 740.89 | 0.00 | 102.90 | 171.0-172.0 | 0.01 | 741.13 | 0.00 | 102.93 |
| 125.0-126.0 | 0.00 | 740.89 | 0.00 | 102.90 | 172.0-173.0 | 0.01 | 741.14 | 0.00 | 102.94 |
| 126.0-127.0 | 0.00 | 740.89 | 0.00 | 102.90 | 173.0-174.0 | 0.01 | 741.14 | 0.00 | 102.94 |
| 127.0-128.0 | 0.00 | 740.89 | 0.00 | 102.90 | 174.0-175.0 | 0.00 | 741.15 | 0.00 | 102.94 |
| 128.0-129.0 | 0.00 | 740.89 | 0.00 | 102.90 | 175.0-176.0 | 0.00 | 741.15 | 0.00 | 102.94 |
| 129.0-130.0 | 0.00 | 740.89 | 0.00 | 102.90 | 176.0-177.0 | 0.00 | 741.15 | 0.00 | 102.94 |
| 130.0-131.0 | 0.00 | 740.89 | 0.00 | 102.90 | 177.0-178.0 | 0.00 | 741.16 | 0.00 | 102.94 |
| 131.0-132.0 | 0.00 | 740.89 | 0.00 | 102.90 | 178.0-179.0 | 0.00 | 741.16 | 0.00 | 102.94 |
| 132.0-133.0 | 0.00 | 740.89 | 0.00 | 102.90 | 179.0-180.0 | 0.00 | 741.16 | 0.00 | 102.94 |
| 133.0-134.0 | 0.00 | 740.89 | 0.00 | 102.90 | | | | | |
| 134.0-135.0 | 0.00 | 740.89 | 0.00 | 102.90 | | | | | |
| 135.0-136.0 | 0.00 | 740.89 | 0.00 | 102.90 | | | | | |
| 136.0-137.0 | 0.00 | 740.89 | 0.00 | 102.90 | | | | | |
| 137.0-138.0 | 0.00 | 740.89 | 0.00 | 102.90 | | | | | |
| 138.0-139.0 | 0.00 | 740.89 | 0.00 | 102.90 | | | | | |
| 139.0-140.0 | 0.00 | 740.89 | 0.00 | 102.90 | | | | | |
| 140.0-141.0 | 0.00 | 740.89 | 0.00 | 102.90 | | | | | |

Rectangle ISO Lighting Intensity Diagram

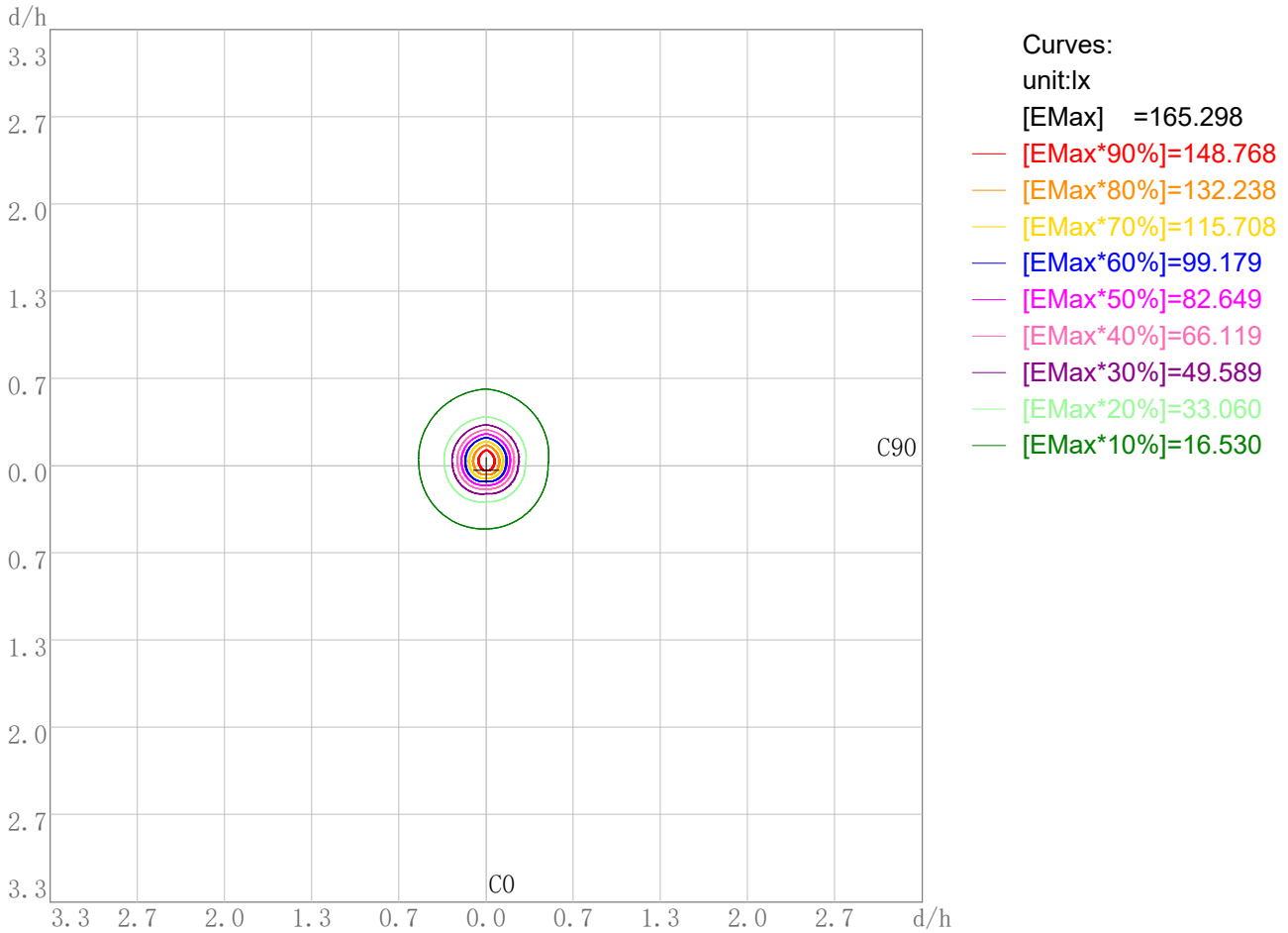
| | | |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | Lamp Catalog: LED | Test Lab: volnic |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/15 |



Plane ISO-Illuminance Diagram

| | | |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | Lamp Catalog: LED | Test Lab: volnic |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/15 |

Plane ISO-Illuminance Curve

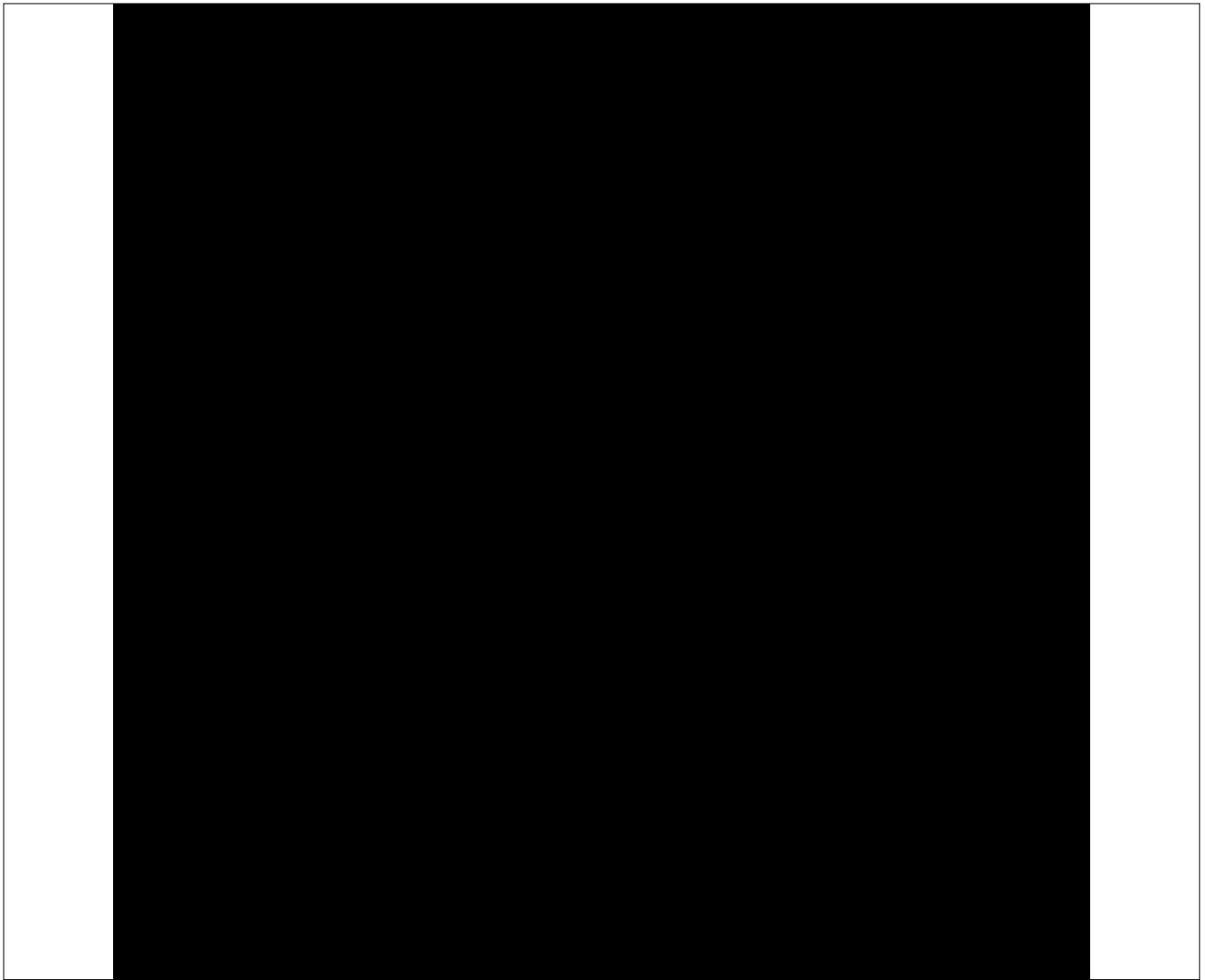


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 165.30
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

| | | |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | Lamp Catalog: LED | Test Lab: volnic |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/15 |

3D Plane Illuminance Modal

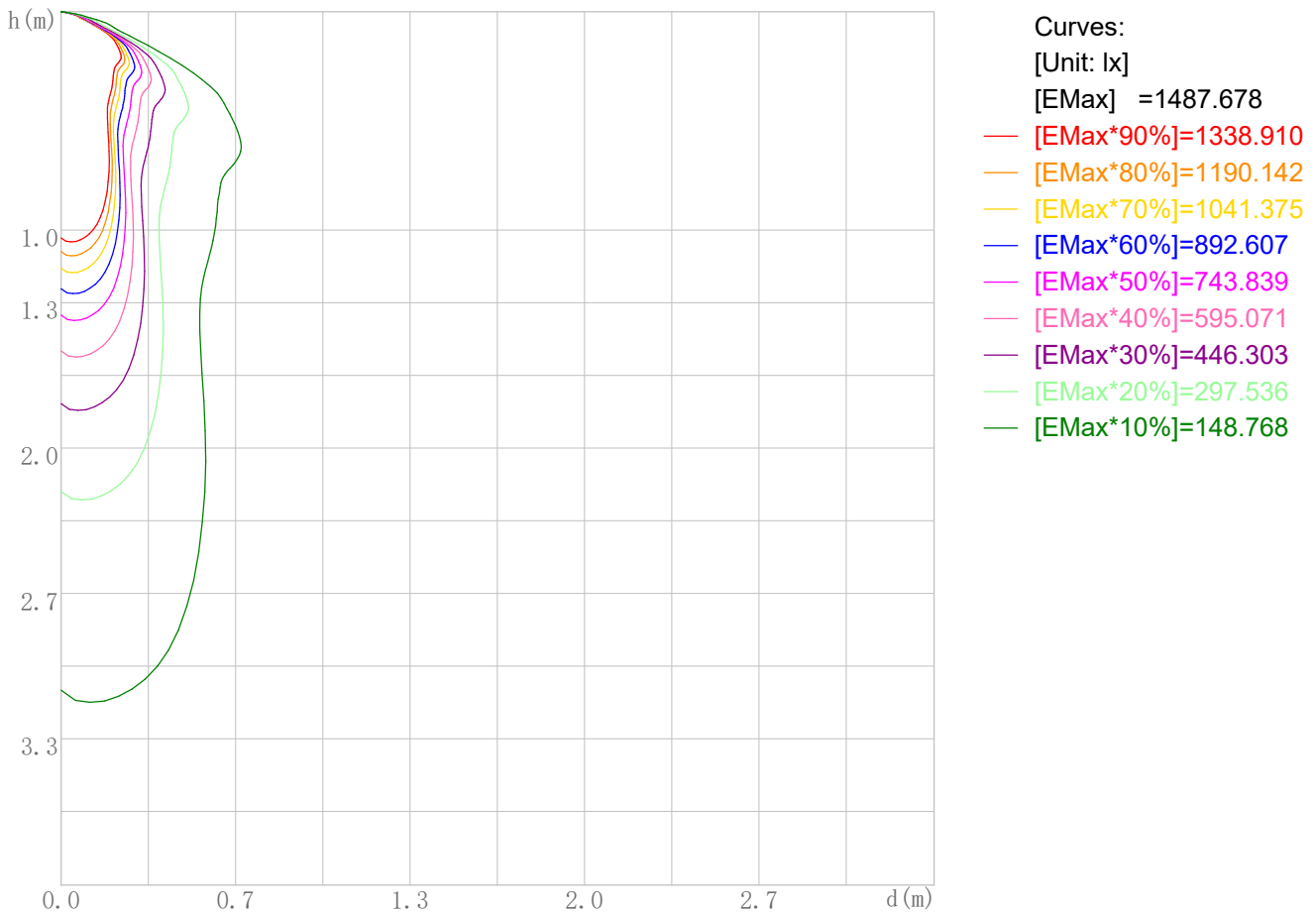


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

| | | |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | Lamp Catalog: LED | Test Lab: volnic |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/15 |

Space ISO Illuminance Curve

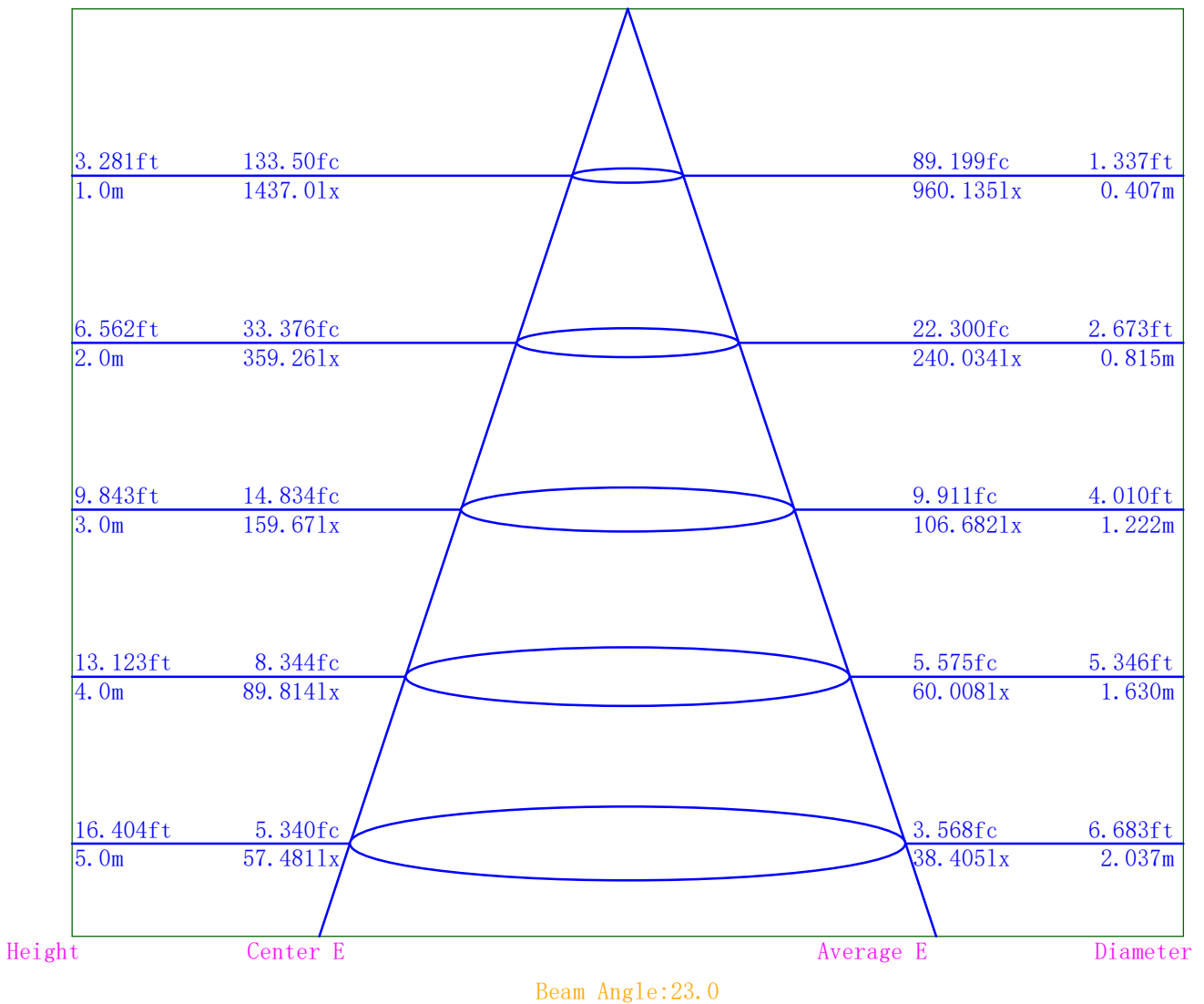


Space Plane Maximum Illuminance and @Angle:1487.68lx,2.0deg
Plane Maximum Lighting Intensity and @Angle:1490.400cd,0deg

Illuminance-Distance Diagram

| | | |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | Lamp Catalog: LED | Test Lab: volnic |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/15 |

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

| | | |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | Lamp Catalog: LED | Test Lab: volnic |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/15 |

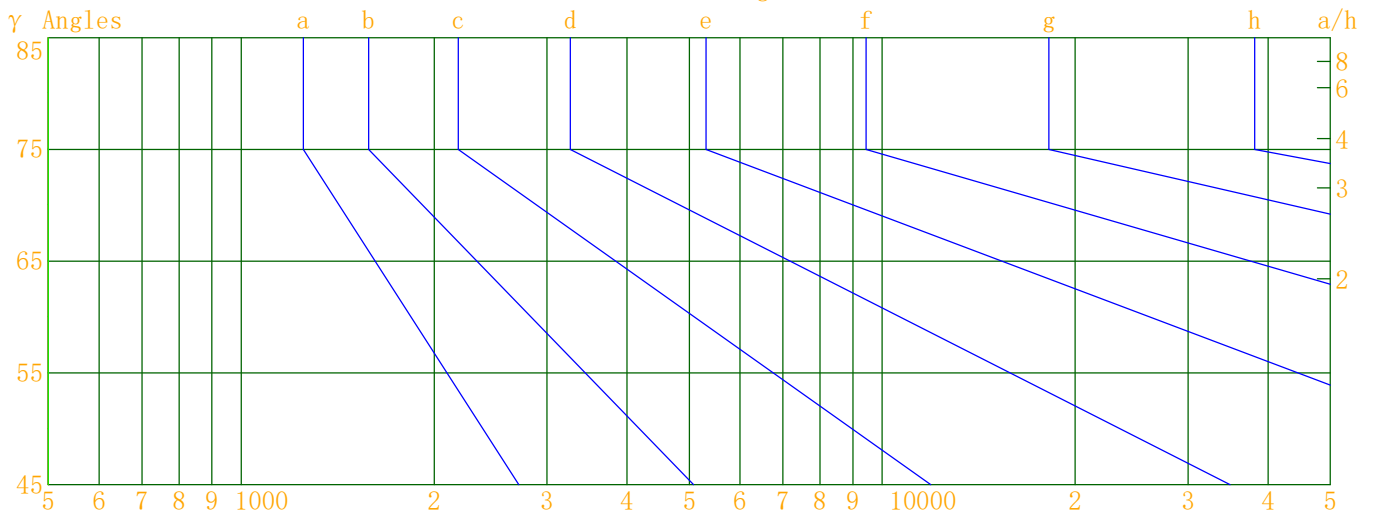
Glare Grade Table

| 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 |

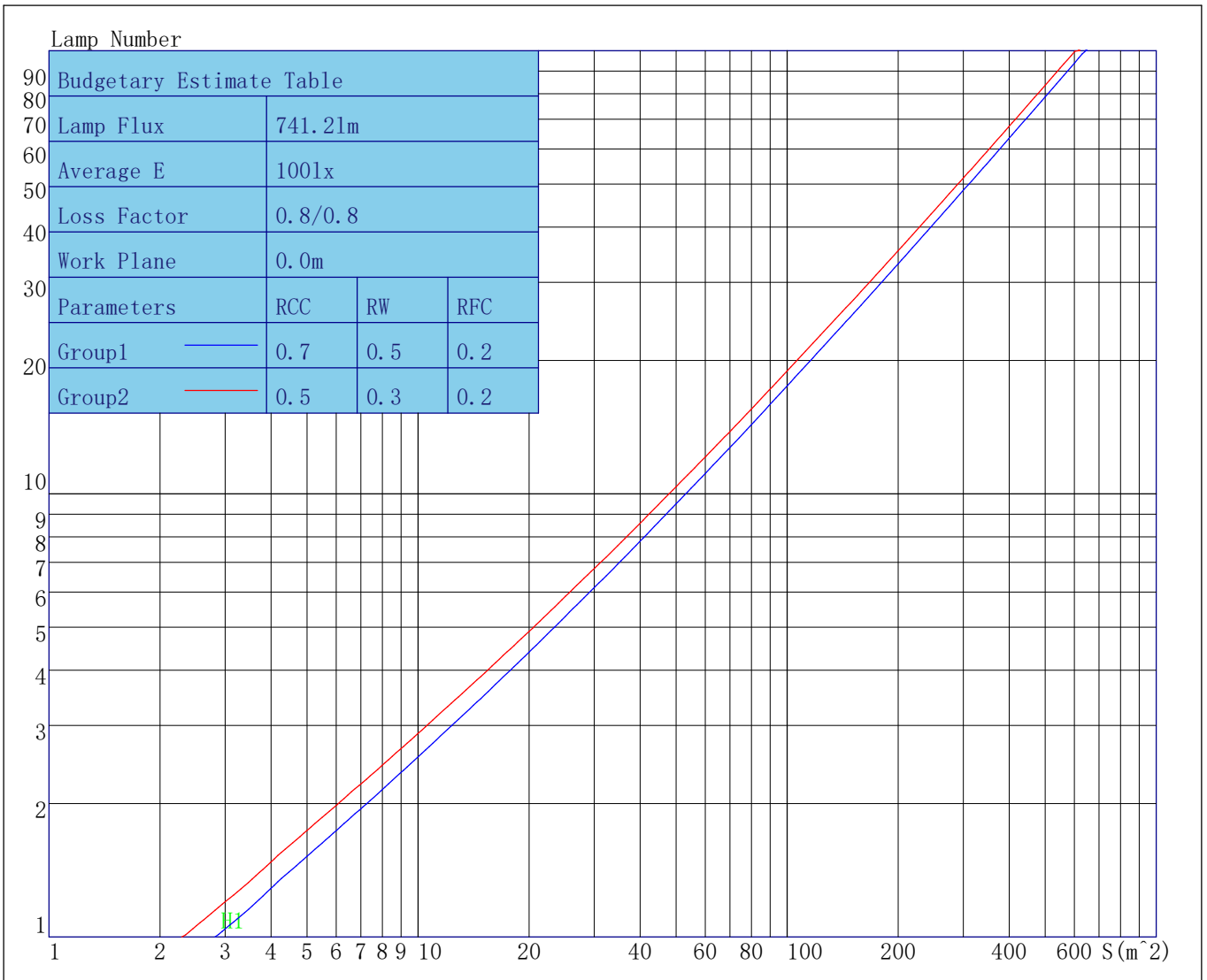
Luminance Limiting Curve



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: —

Indoor Budgetary Estimate Table

| | | |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | Lamp Catalog: LED | Test Lab: volnic |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/15 |



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: LED Lamp | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | Lamp Catalog: LED | Test Lab: volnic |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/15 |

| 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 | 123 | 123 | 123 | 123 | 120 | 120 | 120 | 120 | 114 | 114 | 114 | 109 | 109 | 109 | 105 | 105 | 105 | 103 |
| 1 | 115 | 112 | 109 | 106 | 113 | 110 | 107 | 104 | 105 | 103 | 101 | 101 | 100 | 98 | 98 | 96 | 95 | 93 |
| 2 | 108 | 101 | 96 | 92 | 105 | 100 | 95 | 91 | 96 | 92 | 89 | 93 | 90 | 87 | 90 | 87 | 85 | 83 |
| 3 | 100 | 92 | 86 | 81 | 98 | 91 | 85 | 80 | 88 | 83 | 79 | 85 | 81 | 77 | 83 | 79 | 76 | 74 |
| 4 | 94 | 84 | 77 | 72 | 92 | 83 | 76 | 71 | 81 | 75 | 70 | 78 | 73 | 70 | 76 | 72 | 69 | 67 |
| 5 | 88 | 77 | 70 | 65 | 86 | 76 | 69 | 64 | 74 | 68 | 64 | 72 | 67 | 63 | 71 | 66 | 62 | 61 |
| 6 | 83 | 71 | 64 | 59 | 81 | 71 | 64 | 58 | 69 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 57 | 55 |
| 7 | 78 | 66 | 59 | 54 | 76 | 66 | 59 | 54 | 64 | 58 | 53 | 63 | 57 | 53 | 62 | 57 | 53 | 51 |
| 8 | 74 | 62 | 55 | 50 | 72 | 61 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 47 |
| 9 | 70 | 58 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 |
| 10 | 66 | 55 | 48 | 44 | 65 | 54 | 48 | 44 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 42 |

Unified Glare Rating Table

| | | |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp | Lum. Catalog: | Test ID: t001 |
| Lamp Name: 1170 | Lamp Catalog: LED | Test Lab: volnic |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/15 |

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 | -2.6 | -1.2 | -2.3 | -0.8 | -0.5 | -2.6 | -1.2 | -2.3 | -0.8 | -0.5 |
| Y=3H | -2.8 | -1.5 | -2.4 | -1.1 | -0.8 | -2.8 | -1.5 | -2.4 | -1.1 | -0.8 |
| Y=4H | -2.8 | -1.6 | -2.4 | -1.3 | -0.9 | -2.8 | -1.6 | -2.4 | -1.3 | -0.9 |
| Y=6H | -2.9 | -1.8 | -2.5 | -1.4 | -1.0 | -2.9 | -1.8 | -2.5 | -1.4 | -1.0 |
| Y=8H | -3.0 | -1.9 | -2.5 | -1.5 | -1.1 | -3.0 | -1.9 | -2.5 | -1.5 | -1.1 |
| Y=12H | -3.0 | -2.0 | -2.6 | -1.6 | -1.1 | -3.0 | -2.0 | -2.6 | -1.6 | -1.1 |
| X=4H Y=2H | -2.8 | -1.6 | -2.4 | -1.3 | -0.9 | -2.8 | -1.6 | -2.4 | -1.3 | -0.9 |
| Y=3H | -3.0 | -2.0 | -2.6 | -1.6 | -1.1 | -3.0 | -2.0 | -2.6 | -1.6 | -1.1 |
| Y=4H | -3.1 | -2.1 | -2.6 | -1.7 | -1.3 | -3.1 | -2.1 | -2.6 | -1.7 | -1.3 |
| Y=6H | -3.2 | -2.3 | -2.7 | -1.9 | -1.4 | -3.2 | -2.3 | -2.7 | -1.9 | -1.4 |
| Y=8H | -3.2 | -2.4 | -2.7 | -2.0 | -1.5 | -3.2 | -2.4 | -2.7 | -2.0 | -1.5 |
| Y=12H | -3.3 | -2.5 | -2.8 | -2.1 | -1.6 | -3.3 | -2.5 | -2.8 | -2.1 | -1.6 |
| X=8H Y=4H | -3.2 | -2.4 | -2.7 | -2.0 | -1.5 | -3.2 | -2.4 | -2.7 | -2.0 | -1.5 |
| Y=6H | -3.3 | -2.7 | -2.8 | -2.2 | -1.6 | -3.3 | -2.7 | -2.8 | -2.2 | -1.6 |
| Y=8H | -3.4 | -2.8 | -2.9 | -2.3 | -1.8 | -3.4 | -2.8 | -2.9 | -2.3 | -1.8 |
| Y=12H | -3.4 | -2.9 | -2.9 | -2.4 | -1.8 | -3.4 | -2.9 | -2.9 | -2.4 | -1.8 |
| X=12H Y=4H | -3.3 | -2.5 | -2.8 | -2.1 | -1.6 | -3.3 | -2.5 | -2.8 | -2.1 | -1.6 |
| Y=6H | -3.4 | -2.8 | -2.9 | -2.3 | -1.8 | -3.4 | -2.8 | -2.9 | -2.3 | -1.8 |
| Y=8H | -3.4 | -2.9 | -2.9 | -2.4 | -1.8 | -3.4 | -2.9 | -2.9 | -2.4 | -1.8 |
| Variations with the objerver position at spacings | | | | | | | | | | |
| S=1.0H | 0.0/0.0 | | | | | 0.0/0.0 | | | | |
| S=1.5H | 0.0/0.0 | | | | | 0.0/0.0 | | | | |
| S=2.0H | 0.0/0.0 | | | | | 0.0/0.0 | | | | |
| Reduced UGR Table: | | | | | | | | | | |
| Nordic Standard Table: | 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:1151.IES

Candela Tabulation

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------------|---------|---------|---------|---------|
| γ 0.0 | 1437.03 | 1437.03 | 1437.03 | 1437.03 |
| γ 1.0 | 1480.23 | 1399.61 | 1410.61 | 1395.78 |
| γ 2.0 | 1490.40 | 1381.00 | 1350.17 | 1374.30 |
| γ 3.0 | 1488.70 | 1344.28 | 1273.49 | 1341.18 |
| γ 4.0 | 1473.25 | 1292.45 | 1182.95 | 1297.68 |
| γ 5.0 | 1447.75 | 1223.93 | 1087.65 | 1242.21 |
| γ 6.0 | 1413.23 | 1141.65 | 989.31 | 1177.08 |
| γ 7.0 | 1366.70 | 1053.60 | 890.99 | 1103.74 |
| γ 8.0 | 1308.44 | 961.75 | 795.06 | 1020.75 |
| γ 9.0 | 1237.27 | 868.65 | 703.16 | 933.73 |
| γ 10.0 | 1155.15 | 775.30 | 618.24 | 842.80 |
| γ 11.0 | 1066.64 | 687.20 | 542.18 | 753.90 |
| γ 12.0 | 972.36 | 604.93 | 476.73 | 669.02 |
| γ 13.0 | 878.48 | 529.72 | 421.45 | 589.42 |
| γ 14.0 | 787.69 | 464.56 | 375.43 | 518.37 |
| γ 15.0 | 699.98 | 408.80 | 340.27 | 457.05 |
| γ 16.0 | 616.47 | 362.10 | 313.07 | 406.90 |
| γ 17.0 | 540.03 | 325.80 | 292.12 | 365.35 |
| γ 18.0 | 474.66 | 296.82 | 275.53 | 332.85 |
| γ 19.0 | 421.64 | 274.81 | 261.74 | 307.68 |
| γ 20.0 | 379.87 | 257.02 | 251.32 | 288.68 |
| γ 21.0 | 347.87 | 243.12 | 240.95 | 272.97 |
| γ 22.0 | 323.21 | 232.42 | 231.77 | 259.97 |
| γ 23.0 | 304.92 | 221.65 | 223.28 | 249.28 |
| γ 24.0 | 290.51 | 211.56 | 215.50 | 238.84 |
| γ 25.0 | 279.43 | 203.46 | 208.76 | 229.51 |
| γ 26.0 | 269.34 | 195.23 | 201.57 | 220.87 |
| γ 27.0 | 260.02 | 188.99 | 195.30 | 212.93 |
| γ 28.0 | 252.00 | 183.38 | 190.34 | 206.98 |
| γ 29.0 | 243.32 | 177.91 | 185.56 | 200.34 |
| γ 30.0 | 235.52 | 172.85 | 182.18 | 194.76 |
| γ 31.0 | 227.31 | 167.84 | 179.47 | 190.91 |
| γ 32.0 | 219.22 | 164.11 | 177.63 | 187.48 |
| γ 33.0 | 211.94 | 161.21 | 176.02 | 184.46 |
| γ 34.0 | 204.77 | 158.61 | 175.44 | 182.49 |
| γ 35.0 | 198.82 | 155.53 | 175.99 | 181.32 |
| γ 36.0 | 194.08 | 153.65 | 176.63 | 180.21 |
| γ 37.0 | 189.55 | 152.27 | 177.25 | 179.70 |
| γ 38.0 | 185.96 | 151.68 | 178.18 | 179.76 |
| γ 39.0 | 184.04 | 151.52 | 178.91 | 179.90 |
| γ 40.0 | 183.85 | 151.26 | 178.95 | 179.66 |
| γ 41.0 | 184.59 | 150.03 | 178.31 | 179.27 |
| γ 42.0 | 186.08 | 149.18 | 177.24 | 178.20 |
| γ 43.0 | 187.83 | 148.46 | 174.42 | 177.72 |
| γ 44.0 | 189.54 | 147.27 | 169.59 | 176.59 |
| γ 45.0 | 190.92 | 145.39 | 165.28 | 175.13 |
| γ 46.0 | 191.58 | 142.34 | 160.93 | 172.95 |

IES Indoor Report

Photometric Filename:1151.IES

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|--------|--------|--------|--------|
| γ 47.0 | 191.80 | 139.90 | 156.49 | 170.44 |
| γ 48.0 | 190.56 | 137.53 | 152.58 | 167.67 |
| γ 49.0 | 187.05 | 135.17 | 148.66 | 164.59 |
| γ 50.0 | 182.76 | 133.05 | 145.20 | 161.39 |
| γ 51.0 | 177.45 | 130.80 | 141.86 | 158.17 |
| γ 52.0 | 171.77 | 128.41 | 137.81 | 154.73 |
| γ 53.0 | 166.00 | 125.48 | 131.34 | 150.88 |
| γ 54.0 | 160.32 | 121.41 | 120.03 | 146.42 |
| γ 55.0 | 154.74 | 115.62 | 107.63 | 140.56 |
| γ 56.0 | 149.79 | 106.63 | 95.09 | 131.17 |
| γ 57.0 | 144.99 | 96.36 | 80.77 | 116.14 |
| γ 58.0 | 138.99 | 85.17 | 66.70 | 100.63 |
| γ 59.0 | 127.69 | 73.74 | 53.48 | 85.19 |
| γ 60.0 | 114.30 | 62.52 | 42.15 | 70.56 |
| γ 61.0 | 102.24 | 51.63 | 32.92 | 57.02 |
| γ 62.0 | 87.68 | 41.66 | 25.69 | 46.38 |
| γ 63.0 | 71.55 | 33.17 | 20.45 | 37.47 |
| γ 64.0 | 58.15 | 26.66 | 16.57 | 29.85 |
| γ 65.0 | 47.05 | 22.27 | 15.10 | 24.39 |
| γ 66.0 | 37.79 | 19.02 | 14.39 | 20.91 |
| γ 67.0 | 30.63 | 17.57 | 13.72 | 18.51 |
| γ 68.0 | 25.86 | 16.91 | 12.01 | 17.16 |
| γ 69.0 | 22.22 | 16.71 | 9.79 | 16.24 |
| γ 70.0 | 20.49 | 15.63 | 7.13 | 15.38 |
| γ 71.0 | 19.47 | 13.59 | 4.55 | 13.82 |
| γ 72.0 | 18.49 | 10.84 | 2.42 | 11.21 |
| γ 73.0 | 16.69 | 7.45 | 0.62 | 8.50 |
| γ 74.0 | 14.31 | 4.25 | 0.00 | 5.79 |
| γ 75.0 | 11.35 | 1.79 | 0.00 | 3.98 |
| γ 76.0 | 8.44 | 0.00 | 0.00 | 2.59 |
| γ 77.0 | 6.11 | 0.00 | 0.00 | 1.12 |
| γ 78.0 | 4.48 | 0.00 | 0.00 | 0.18 |
| γ 79.0 | 2.47 | 0.00 | 0.00 | 0.04 |
| γ 80.0 | 0.59 | 0.00 | 0.00 | 0.00 |
| γ 81.0 | 0.31 | 0.00 | 0.00 | 0.00 |
| γ 82.0 | 0.10 | 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 |

IES Indoor Report

Photometric Filename:1151.IES

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 |

IES Indoor Report

Photometric Filename:1151.IES

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 | 0.05 |
| γ 149.0 | 0.00 | 0.00 | 0.00 | 0.12 |
| γ 150.0 | 0.04 | 0.00 | 0.00 | 0.20 |
| γ 151.0 | 0.10 | 0.00 | 0.00 | 0.23 |
| γ 152.0 | 0.18 | 0.00 | 0.00 | 0.26 |
| γ 153.0 | 0.22 | 0.00 | 0.03 | 0.35 |
| γ 154.0 | 0.25 | 0.05 | 0.05 | 0.39 |
| γ 155.0 | 0.34 | 0.09 | 0.06 | 0.40 |
| γ 156.0 | 0.41 | 0.12 | 0.09 | 0.49 |
| γ 157.0 | 0.37 | 0.17 | 0.16 | 0.51 |
| γ 158.0 | 0.48 | 0.21 | 0.13 | 0.52 |
| γ 159.0 | 0.53 | 0.20 | 0.17 | 0.51 |
| γ 160.0 | 0.55 | 0.28 | 0.18 | 0.55 |
| γ 161.0 | 0.56 | 0.28 | 0.19 | 0.55 |
| γ 162.0 | 0.61 | 0.31 | 0.22 | 0.57 |
| γ 163.0 | 0.63 | 0.30 | 0.22 | 0.60 |
| γ 164.0 | 0.63 | 0.33 | 0.23 | 0.64 |
| γ 165.0 | 0.69 | 0.32 | 0.21 | 0.61 |
| γ 166.0 | 0.69 | 0.33 | 0.22 | 0.59 |
| γ 167.0 | 0.69 | 0.36 | 0.19 | 0.59 |
| γ 168.0 | 0.72 | 0.35 | 0.19 | 0.61 |
| γ 169.0 | 0.69 | 0.35 | 0.15 | 0.60 |
| γ 170.0 | 0.69 | 0.36 | 0.17 | 0.62 |
| γ 171.0 | 0.67 | 0.31 | 0.20 | 0.59 |
| γ 172.0 | 0.64 | 0.31 | 0.17 | 0.58 |
| γ 173.0 | 0.66 | 0.32 | 0.14 | 0.61 |
| γ 174.0 | 0.67 | 0.31 | 0.12 | 0.59 |
| γ 175.0 | 0.66 | 0.32 | 0.12 | 0.58 |
| γ 176.0 | 0.62 | 0.27 | 0.15 | 0.57 |
| γ 177.0 | 0.64 | 0.28 | 0.14 | 0.59 |
| γ 178.0 | 0.58 | 0.28 | 0.13 | 0.56 |
| γ 179.0 | 0.62 | 0.29 | 0.16 | 0.57 |
| γ 180.0 | 0.39 | 0.39 | 0.39 | 0.39 |