

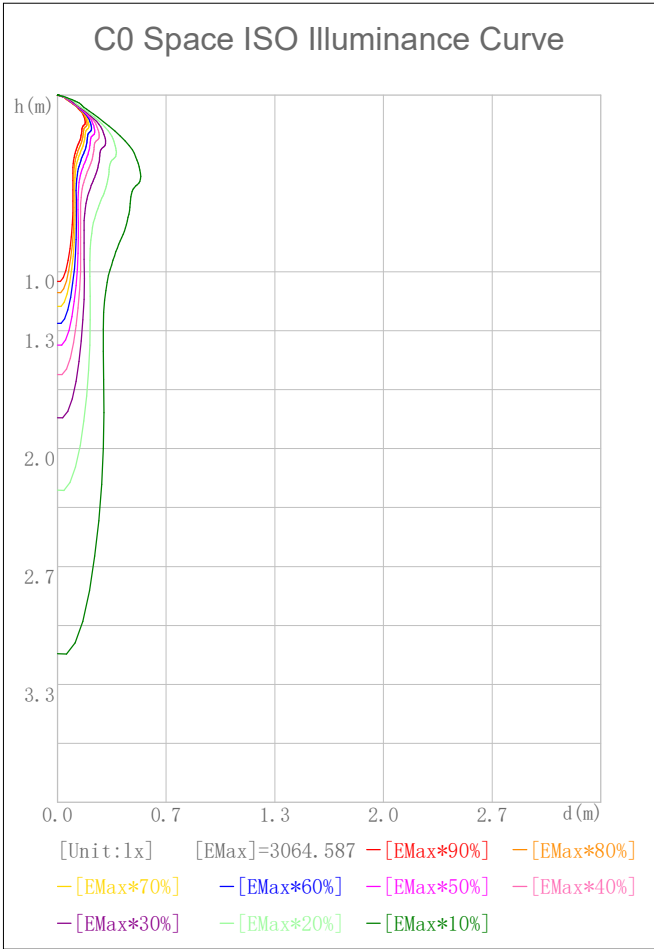
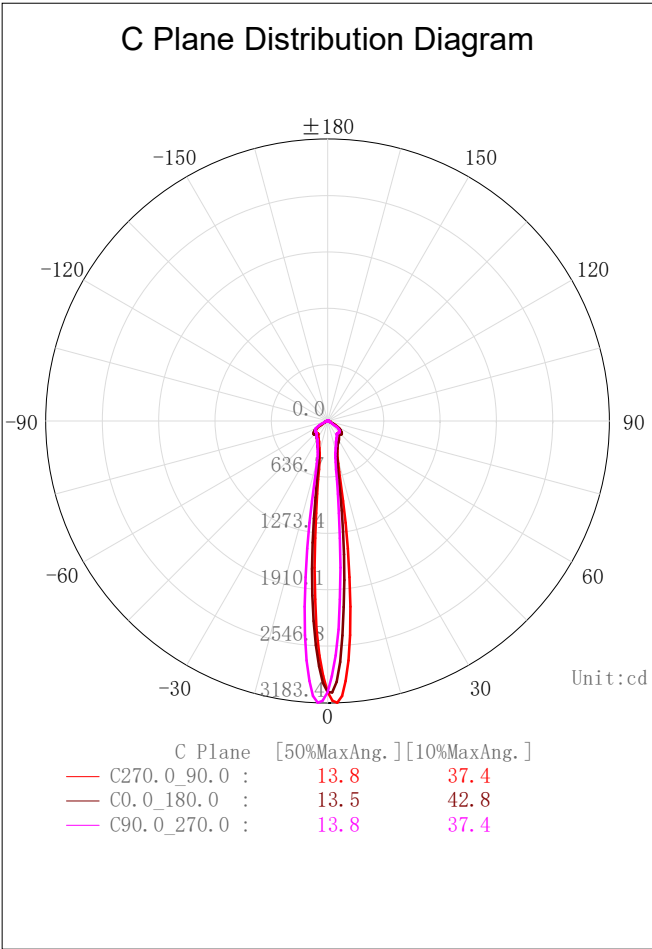
Indoor Luminaire Photometric Data

Description Information

|                                        |                         |                      |                       |
|----------------------------------------|-------------------------|----------------------|-----------------------|
| Luminary Name: LED Lamp                |                         | Lum. Catalog:        | Test ID: t001         |
| Lamp Name: 1169                        |                         | Lamp Catalog: LED    | Test Date: 2024/01/12 |
| 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     |

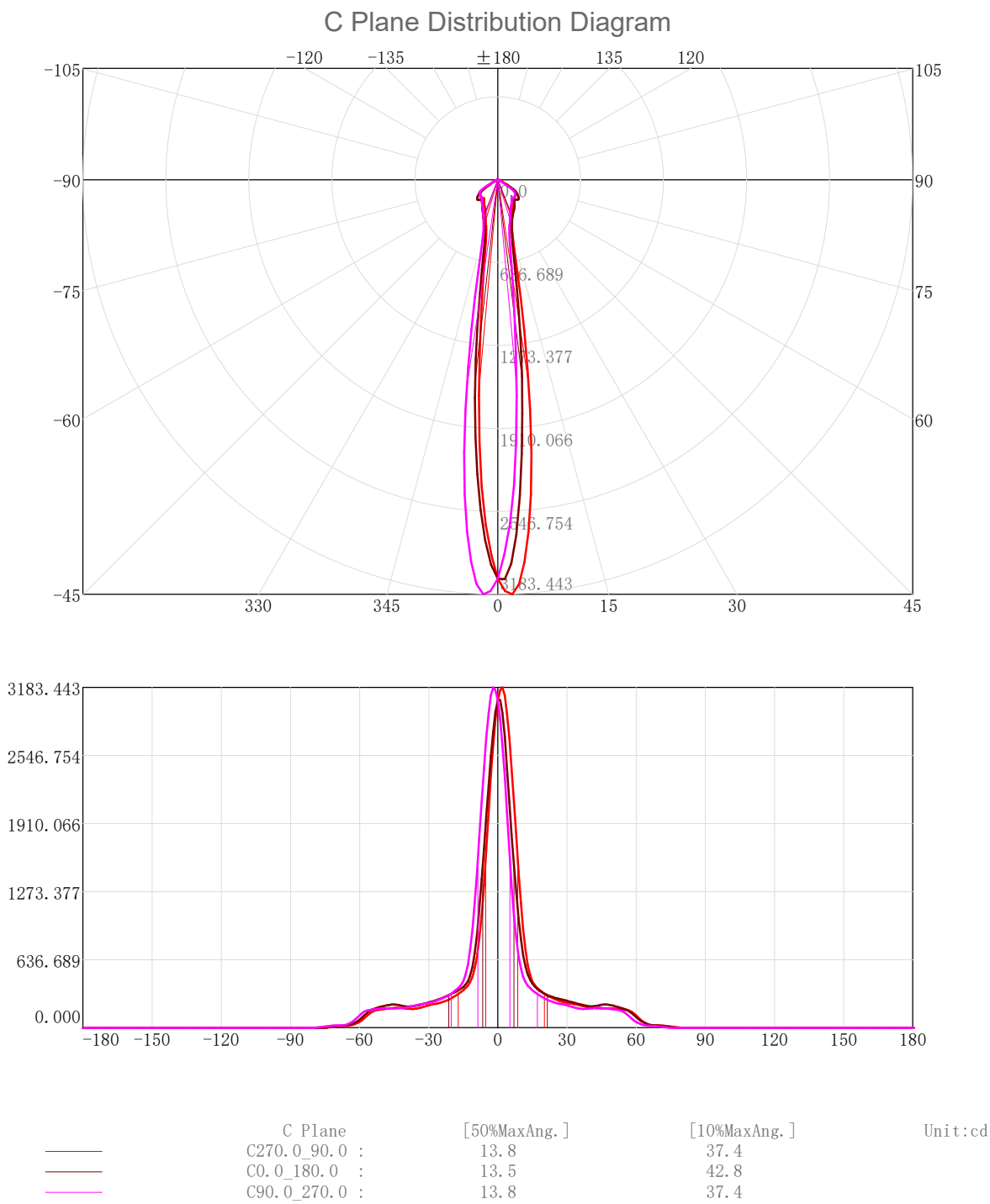
Character Parameter

| Lamp Speciality Parameter                      |                                  | Luminaire Speciality Parameter        |  |
|------------------------------------------------|----------------------------------|---------------------------------------|--|
| Rated Flux(lm): 720.000                        | Luminary Flux(lm): 866.476       | Field Angle(10%Imax): 37.4(°)         |  |
| Rated Power(W):                                | Luminary Efficiency: 120.34%     | Down Lumens&Percent: 865.878lm 99.93% |  |
| Rated Voltage(V):                              | Luminary EER(lm/W): 82.130       | Up Lumens&Percent: 0.598lm 0.07%      |  |
| Tested Power(W): 10.550                        | Max. Candela(cd): 3183.443       | S/MH: C0_a180=0.232 C90_270=0.245     |  |
| Lamps' Inside: 1                               | Max Cand@Ang. (°): C=270.0 γ=2.0 | CIE Type: Semi-Direct                 |  |
| Tested Electrics(V, A, pf):127.2, 0.086, 0.958 |                                  | ErP Φuse(90°): 587.958lm              |  |
| Lamp Size(W*L*H):0.000m*0.000m*0.000m          |                                  | IRF(%): 976.218                       |  |
|                                                |                                  | Left=-5.2°, Right=8.6°                |  |



2D Plane Light Intensity Distribution Curve

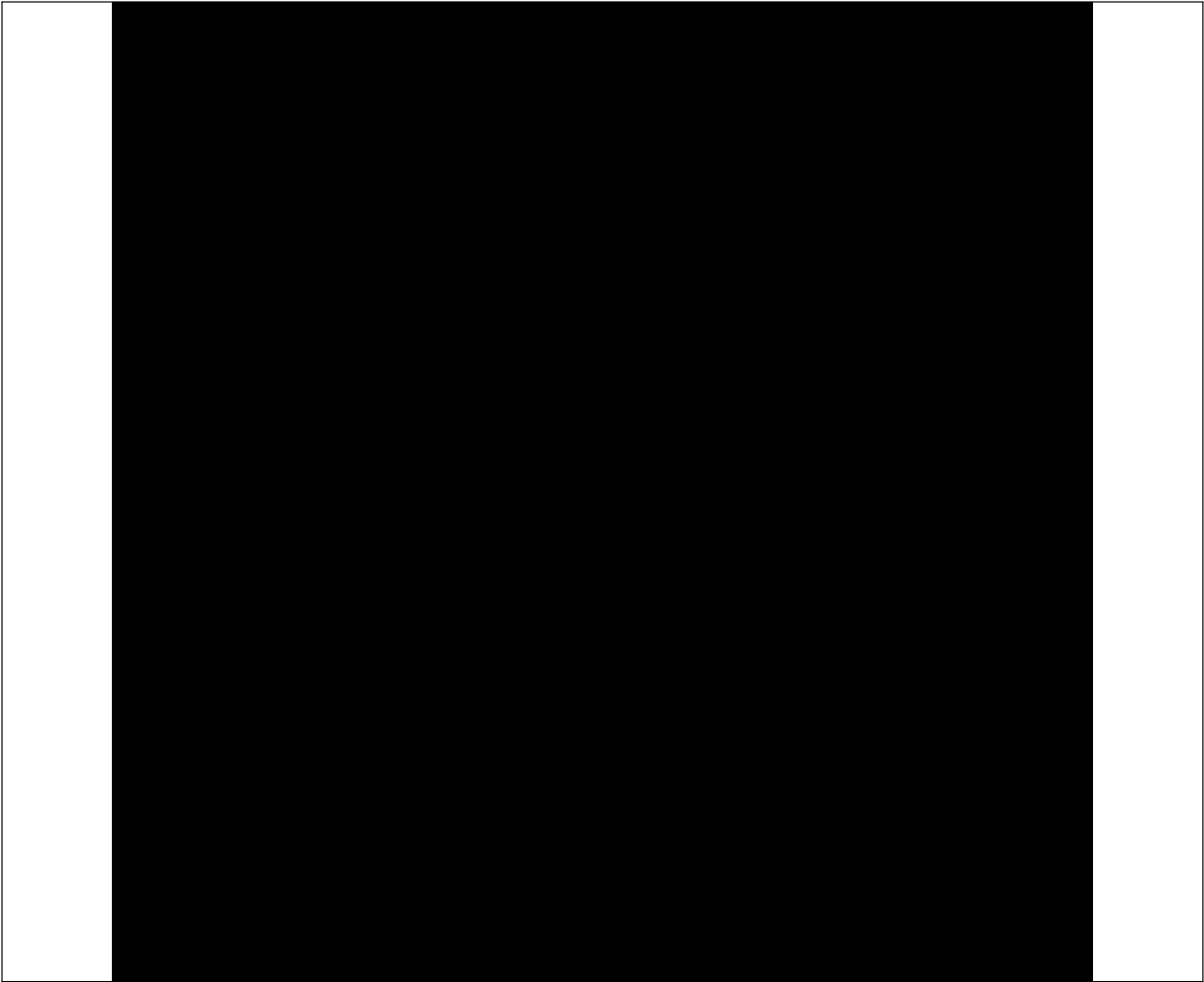
|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp   | Lum. Catalog:         | Test ID: t001         |
| Lamp Name: 1169       | Lamp Catalog: LED     | Test Lab: volnic      |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/12 |



3D Light Intensity Distribution Modal

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp   | Lum. Catelog:         | Test ID: t001         |
| Lamp Name: 1169       | Lamp Catelog: LED     | Test Lab: volnic      |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/12 |

3D Light Intensity Distribution Modal



Curves:3D Model — Fixture — Vert. HUD — Hori. HUD —

View Angles:Orient:0Tilt:0Roll:0Spin:0

Zonal Flux Tabulation

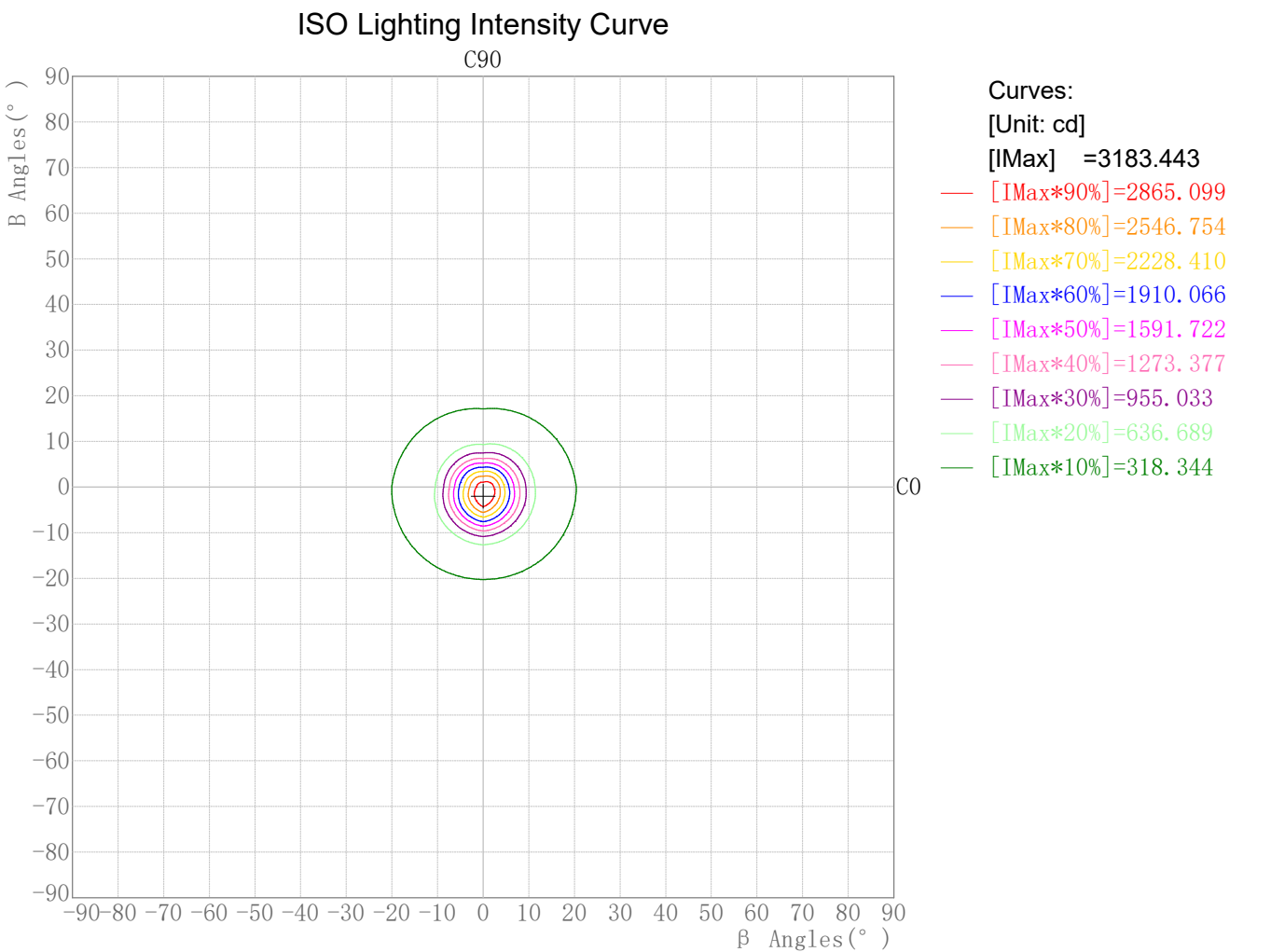
| Zone (γ)  | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp | Zone (γ)  | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp |
|-----------|-------------------|-------------------|-----------|-----------|-----------|-------------------|-------------------|-----------|-----------|
| 0.0-1.0   | 2.91              | 2.91              | 0.40      | 0.40      | 47.0-48.0 | 16.02             | 651.34            | 2.23      | 90.46     |
| 1.0-2.0   | 8.47              | 11.38             | 1.18      | 1.58      | 48.0-49.0 | 16.08             | 667.42            | 2.23      | 92.70     |
| 2.0-3.0   | 13.31             | 24.69             | 1.85      | 3.43      | 49.0-50.0 | 16.07             | 683.49            | 2.23      | 94.93     |
| 3.0-4.0   | 17.05             | 41.74             | 2.37      | 5.80      | 50.0-51.0 | 16.01             | 699.50            | 2.22      | 97.15     |
| 4.0-5.0   | 19.47             | 61.21             | 2.70      | 8.50      | 51.0-52.0 | 15.88             | 715.38            | 2.21      | 99.36     |
| 5.0-6.0   | 20.63             | 81.85             | 2.87      | 11.37     | 52.0-53.0 | 15.70             | 731.07            | 2.18      | 101.54    |
| 6.0-7.0   | 20.66             | 102.51            | 2.87      | 14.24     | 53.0-54.0 | 15.43             | 746.50            | 2.14      | 103.68    |
| 7.0-8.0   | 19.78             | 122.29            | 2.75      | 16.98     | 54.0-55.0 | 15.02             | 761.53            | 2.09      | 105.77    |
| 8.0-9.0   | 18.27             | 140.56            | 2.54      | 19.52     | 55.0-56.0 | 14.37             | 775.89            | 2.00      | 107.76    |
| 9.0-10.0  | 16.48             | 157.04            | 2.29      | 21.81     | 56.0-57.0 | 13.39             | 789.29            | 1.86      | 109.62    |
| 10.0-11.0 | 14.74             | 171.79            | 2.05      | 23.86     | 57.0-58.0 | 12.14             | 801.43            | 1.69      | 111.31    |
| 11.0-12.0 | 13.30             | 185.09            | 1.85      | 25.71     | 58.0-59.0 | 10.68             | 812.11            | 1.48      | 112.79    |
| 12.0-13.0 | 12.28             | 197.37            | 1.71      | 27.41     | 59.0-60.0 | 9.09              | 821.20            | 1.26      | 114.06    |
| 13.0-14.0 | 11.66             | 209.02            | 1.62      | 29.03     | 60.0-61.0 | 7.54              | 828.75            | 1.05      | 115.10    |
| 14.0-15.0 | 11.36             | 220.38            | 1.58      | 30.61     | 61.0-62.0 | 6.12              | 834.87            | 0.85      | 115.95    |
| 15.0-16.0 | 11.27             | 231.65            | 1.56      | 32.17     | 62.0-63.0 | 4.90              | 839.77            | 0.68      | 116.63    |
| 16.0-17.0 | 11.30             | 242.95            | 1.57      | 33.74     | 63.0-64.0 | 3.95              | 843.72            | 0.55      | 117.18    |
| 17.0-18.0 | 11.40             | 254.35            | 1.58      | 35.33     | 64.0-65.0 | 3.24              | 846.96            | 0.45      | 117.63    |
| 18.0-19.0 | 11.50             | 265.85            | 1.60      | 36.92     | 65.0-66.0 | 2.71              | 849.67            | 0.38      | 118.01    |
| 19.0-20.0 | 11.60             | 277.45            | 1.61      | 38.53     | 66.0-67.0 | 2.35              | 852.03            | 0.33      | 118.34    |
| 20.0-21.0 | 11.71             | 289.16            | 1.63      | 40.16     | 67.0-68.0 | 2.16              | 854.19            | 0.30      | 118.64    |
| 21.0-22.0 | 11.81             | 300.96            | 1.64      | 41.80     | 68.0-69.0 | 2.07              | 856.26            | 0.29      | 118.93    |
| 22.0-23.0 | 11.92             | 312.88            | 1.66      | 43.46     | 69.0-70.0 | 1.97              | 858.24            | 0.27      | 119.20    |
| 23.0-24.0 | 12.05             | 324.93            | 1.67      | 45.13     | 70.0-71.0 | 1.83              | 860.07            | 0.25      | 119.45    |
| 24.0-25.0 | 12.16             | 337.09            | 1.69      | 46.82     | 71.0-72.0 | 1.61              | 861.67            | 0.22      | 119.68    |
| 25.0-26.0 | 12.29             | 349.37            | 1.71      | 48.52     | 72.0-73.0 | 1.32              | 863.00            | 0.18      | 119.86    |
| 26.0-27.0 | 12.41             | 361.79            | 1.72      | 50.25     | 73.0-74.0 | 1.01              | 864.01            | 0.14      | 120.00    |
| 27.0-28.0 | 12.53             | 374.32            | 1.74      | 51.99     | 74.0-75.0 | 0.72              | 864.73            | 0.10      | 120.10    |
| 28.0-29.0 | 12.65             | 386.97            | 1.76      | 53.75     | 75.0-76.0 | 0.48              | 865.21            | 0.07      | 120.17    |
| 29.0-30.0 | 12.77             | 399.74            | 1.77      | 55.52     | 76.0-77.0 | 0.30              | 865.51            | 0.04      | 120.21    |
| 30.0-31.0 | 12.87             | 412.61            | 1.79      | 57.31     | 77.0-78.0 | 0.18              | 865.69            | 0.03      | 120.24    |
| 31.0-32.0 | 12.93             | 425.54            | 1.80      | 59.10     | 78.0-79.0 | 0.10              | 865.80            | 0.01      | 120.25    |
| 32.0-33.0 | 12.97             | 438.51            | 1.80      | 60.90     | 79.0-80.0 | 0.05              | 865.84            | 0.01      | 120.26    |
| 33.0-34.0 | 13.00             | 451.51            | 1.81      | 62.71     | 80.0-81.0 | 0.02              | 865.86            | 0.00      | 120.26    |
| 34.0-35.0 | 13.03             | 464.54            | 1.81      | 64.52     | 81.0-82.0 | 0.01              | 865.87            | 0.00      | 120.26    |
| 35.0-36.0 | 13.05             | 477.60            | 1.81      | 66.33     | 82.0-83.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 36.0-37.0 | 13.11             | 490.70            | 1.82      | 68.15     | 83.0-84.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 37.0-38.0 | 13.20             | 503.90            | 1.83      | 69.99     | 84.0-85.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 38.0-39.0 | 13.34             | 517.24            | 1.85      | 71.84     | 85.0-86.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 39.0-40.0 | 13.54             | 530.78            | 1.88      | 73.72     | 86.0-87.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 40.0-41.0 | 13.82             | 544.60            | 1.92      | 75.64     | 87.0-88.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 41.0-42.0 | 14.18             | 558.78            | 1.97      | 77.61     | 88.0-89.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 42.0-43.0 | 14.59             | 573.37            | 2.03      | 79.63     | 89.0-90.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 43.0-44.0 | 15.00             | 588.37            | 2.08      | 81.72     | 90.0-91.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 44.0-45.0 | 15.38             | 603.75            | 2.14      | 83.85     | 91.0-92.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 45.0-46.0 | 15.68             | 619.43            | 2.18      | 86.03     | 92.0-93.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 46.0-47.0 | 15.89             | 635.32            | 2.21      | 88.24     | 93.0-94.0 | 0.00              | 865.88            | 0.00      | 120.26    |

Zonal Flux Tabulation - (Cont.)

| Zone (γ)    | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp | Zone (γ)    | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp |
|-------------|-------------------|-------------------|-----------|-----------|-------------|-------------------|-------------------|-----------|-----------|
| 94.0-95.0   | 0.00              | 865.88            | 0.00      | 120.26    | 141.0-142.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 95.0-96.0   | 0.00              | 865.88            | 0.00      | 120.26    | 142.0-143.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 96.0-97.0   | 0.00              | 865.88            | 0.00      | 120.26    | 143.0-144.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 97.0-98.0   | 0.00              | 865.88            | 0.00      | 120.26    | 144.0-145.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 98.0-99.0   | 0.00              | 865.88            | 0.00      | 120.26    | 145.0-146.0 | 0.00              | 865.88            | 0.00      | 120.26    |
| 99.0-100.0  | 0.00              | 865.88            | 0.00      | 120.26    | 146.0-147.0 | 0.01              | 865.89            | 0.00      | 120.26    |
| 100.0-101.0 | 0.00              | 865.88            | 0.00      | 120.26    | 147.0-148.0 | 0.01              | 865.90            | 0.00      | 120.26    |
| 101.0-102.0 | 0.00              | 865.88            | 0.00      | 120.26    | 148.0-149.0 | 0.01              | 865.91            | 0.00      | 120.26    |
| 102.0-103.0 | 0.00              | 865.88            | 0.00      | 120.26    | 149.0-150.0 | 0.01              | 865.92            | 0.00      | 120.27    |
| 103.0-104.0 | 0.00              | 865.88            | 0.00      | 120.26    | 150.0-151.0 | 0.02              | 865.94            | 0.00      | 120.27    |
| 104.0-105.0 | 0.00              | 865.88            | 0.00      | 120.26    | 151.0-152.0 | 0.02              | 865.96            | 0.00      | 120.27    |
| 105.0-106.0 | 0.00              | 865.88            | 0.00      | 120.26    | 152.0-153.0 | 0.02              | 865.99            | 0.00      | 120.28    |
| 106.0-107.0 | 0.00              | 865.88            | 0.00      | 120.26    | 153.0-154.0 | 0.03              | 866.01            | 0.00      | 120.28    |
| 107.0-108.0 | 0.00              | 865.88            | 0.00      | 120.26    | 154.0-155.0 | 0.03              | 866.04            | 0.00      | 120.28    |
| 108.0-109.0 | 0.00              | 865.88            | 0.00      | 120.26    | 155.0-156.0 | 0.03              | 866.07            | 0.00      | 120.29    |
| 109.0-110.0 | 0.00              | 865.88            | 0.00      | 120.26    | 156.0-157.0 | 0.03              | 866.10            | 0.00      | 120.29    |
| 110.0-111.0 | 0.00              | 865.88            | 0.00      | 120.26    | 157.0-158.0 | 0.03              | 866.13            | 0.00      | 120.30    |
| 111.0-112.0 | 0.00              | 865.88            | 0.00      | 120.26    | 158.0-159.0 | 0.03              | 866.16            | 0.00      | 120.30    |
| 112.0-113.0 | 0.00              | 865.88            | 0.00      | 120.26    | 159.0-160.0 | 0.03              | 866.19            | 0.00      | 120.30    |
| 113.0-114.0 | 0.00              | 865.88            | 0.00      | 120.26    | 160.0-161.0 | 0.03              | 866.21            | 0.00      | 120.31    |
| 114.0-115.0 | 0.00              | 865.88            | 0.00      | 120.26    | 161.0-162.0 | 0.03              | 866.24            | 0.00      | 120.31    |
| 115.0-116.0 | 0.00              | 865.88            | 0.00      | 120.26    | 162.0-163.0 | 0.03              | 866.27            | 0.00      | 120.31    |
| 116.0-117.0 | 0.00              | 865.88            | 0.00      | 120.26    | 163.0-164.0 | 0.02              | 866.29            | 0.00      | 120.32    |
| 117.0-118.0 | 0.00              | 865.88            | 0.00      | 120.26    | 164.0-165.0 | 0.02              | 866.31            | 0.00      | 120.32    |
| 118.0-119.0 | 0.00              | 865.88            | 0.00      | 120.26    | 165.0-166.0 | 0.02              | 866.33            | 0.00      | 120.32    |
| 119.0-120.0 | 0.00              | 865.88            | 0.00      | 120.26    | 166.0-167.0 | 0.02              | 866.35            | 0.00      | 120.33    |
| 120.0-121.0 | 0.00              | 865.88            | 0.00      | 120.26    | 167.0-168.0 | 0.02              | 866.37            | 0.00      | 120.33    |
| 121.0-122.0 | 0.00              | 865.88            | 0.00      | 120.26    | 168.0-169.0 | 0.02              | 866.39            | 0.00      | 120.33    |
| 122.0-123.0 | 0.00              | 865.88            | 0.00      | 120.26    | 169.0-170.0 | 0.02              | 866.41            | 0.00      | 120.33    |
| 123.0-124.0 | 0.00              | 865.88            | 0.00      | 120.26    | 170.0-171.0 | 0.01              | 866.42            | 0.00      | 120.34    |
| 124.0-125.0 | 0.00              | 865.88            | 0.00      | 120.26    | 171.0-172.0 | 0.01              | 866.43            | 0.00      | 120.34    |
| 125.0-126.0 | 0.00              | 865.88            | 0.00      | 120.26    | 172.0-173.0 | 0.01              | 866.44            | 0.00      | 120.34    |
| 126.0-127.0 | 0.00              | 865.88            | 0.00      | 120.26    | 173.0-174.0 | 0.01              | 866.45            | 0.00      | 120.34    |
| 127.0-128.0 | 0.00              | 865.88            | 0.00      | 120.26    | 174.0-175.0 | 0.01              | 866.46            | 0.00      | 120.34    |
| 128.0-129.0 | 0.00              | 865.88            | 0.00      | 120.26    | 175.0-176.0 | 0.01              | 866.47            | 0.00      | 120.34    |
| 129.0-130.0 | 0.00              | 865.88            | 0.00      | 120.26    | 176.0-177.0 | 0.00              | 866.47            | 0.00      | 120.34    |
| 130.0-131.0 | 0.00              | 865.88            | 0.00      | 120.26    | 177.0-178.0 | 0.00              | 866.47            | 0.00      | 120.34    |
| 131.0-132.0 | 0.00              | 865.88            | 0.00      | 120.26    | 178.0-179.0 | 0.00              | 866.48            | 0.00      | 120.34    |
| 132.0-133.0 | 0.00              | 865.88            | 0.00      | 120.26    | 179.0-180.0 | 0.00              | 866.48            | 0.00      | 120.34    |
| 133.0-134.0 | 0.00              | 865.88            | 0.00      | 120.26    |             |                   |                   |           |           |
| 134.0-135.0 | 0.00              | 865.88            | 0.00      | 120.26    |             |                   |                   |           |           |
| 135.0-136.0 | 0.00              | 865.88            | 0.00      | 120.26    |             |                   |                   |           |           |
| 136.0-137.0 | 0.00              | 865.88            | 0.00      | 120.26    |             |                   |                   |           |           |
| 137.0-138.0 | 0.00              | 865.88            | 0.00      | 120.26    |             |                   |                   |           |           |
| 138.0-139.0 | 0.00              | 865.88            | 0.00      | 120.26    |             |                   |                   |           |           |
| 139.0-140.0 | 0.00              | 865.88            | 0.00      | 120.26    |             |                   |                   |           |           |
| 140.0-141.0 | 0.00              | 865.88            | 0.00      | 120.26    |             |                   |                   |           |           |

Rectangle ISO Lighting Intensity Diagram

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp   | Lum. Catalog:         | Test ID: t001         |
| Lamp Name: 1169       | Lamp Catalog: LED     | Test Lab: volnic      |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/12 |

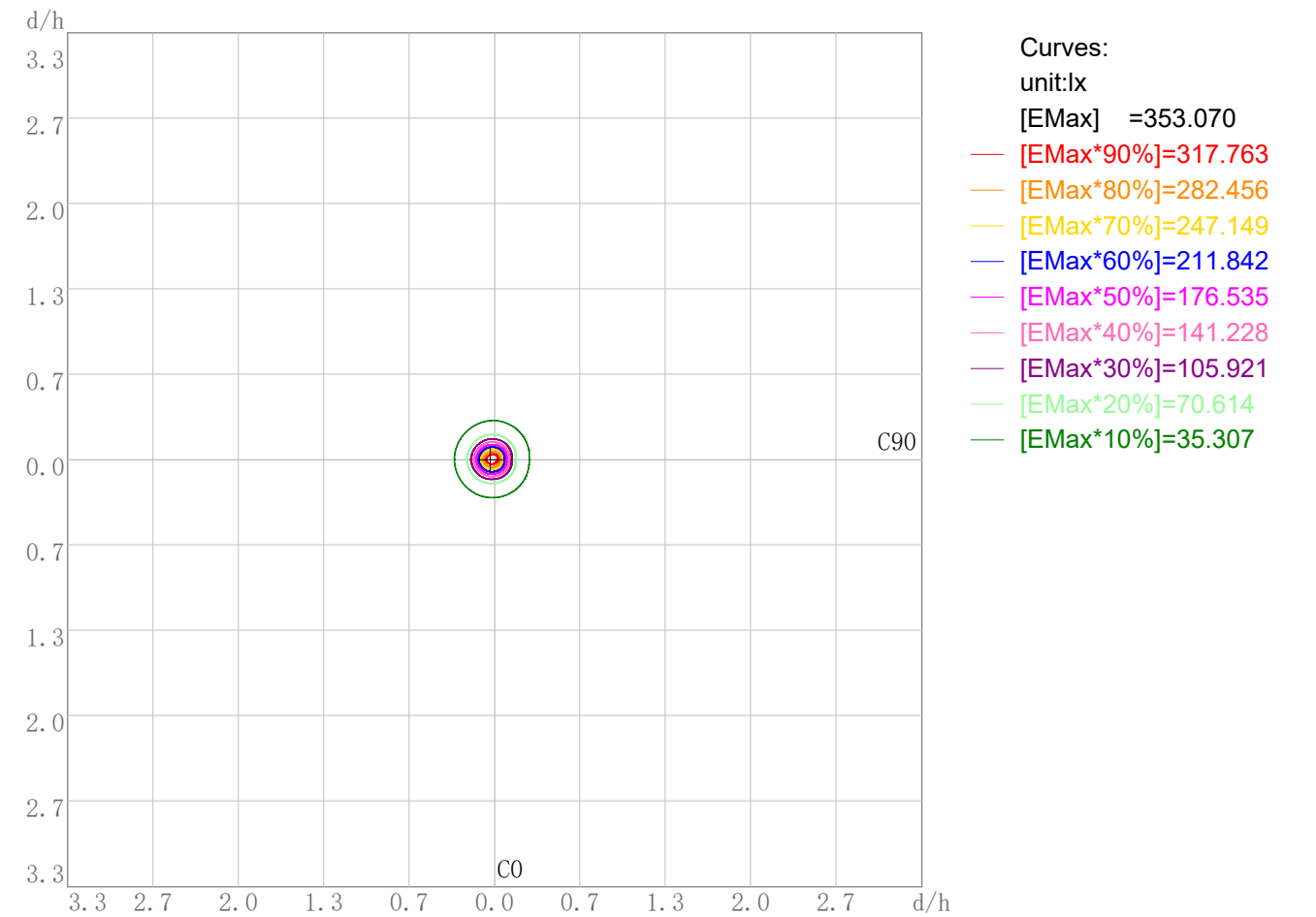


Maximum Light Intensity(cd): 3183.44  
Maximum Cand.@Angle: H=-0.0°,V=-2.0°

Plane ISO-Illuminance Diagram

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp   | Lum. Catalog:         | Test ID: t001         |
| Lamp Name: 1169       | Lamp Catalog: LED     | Test Lab: volnic      |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/12 |

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

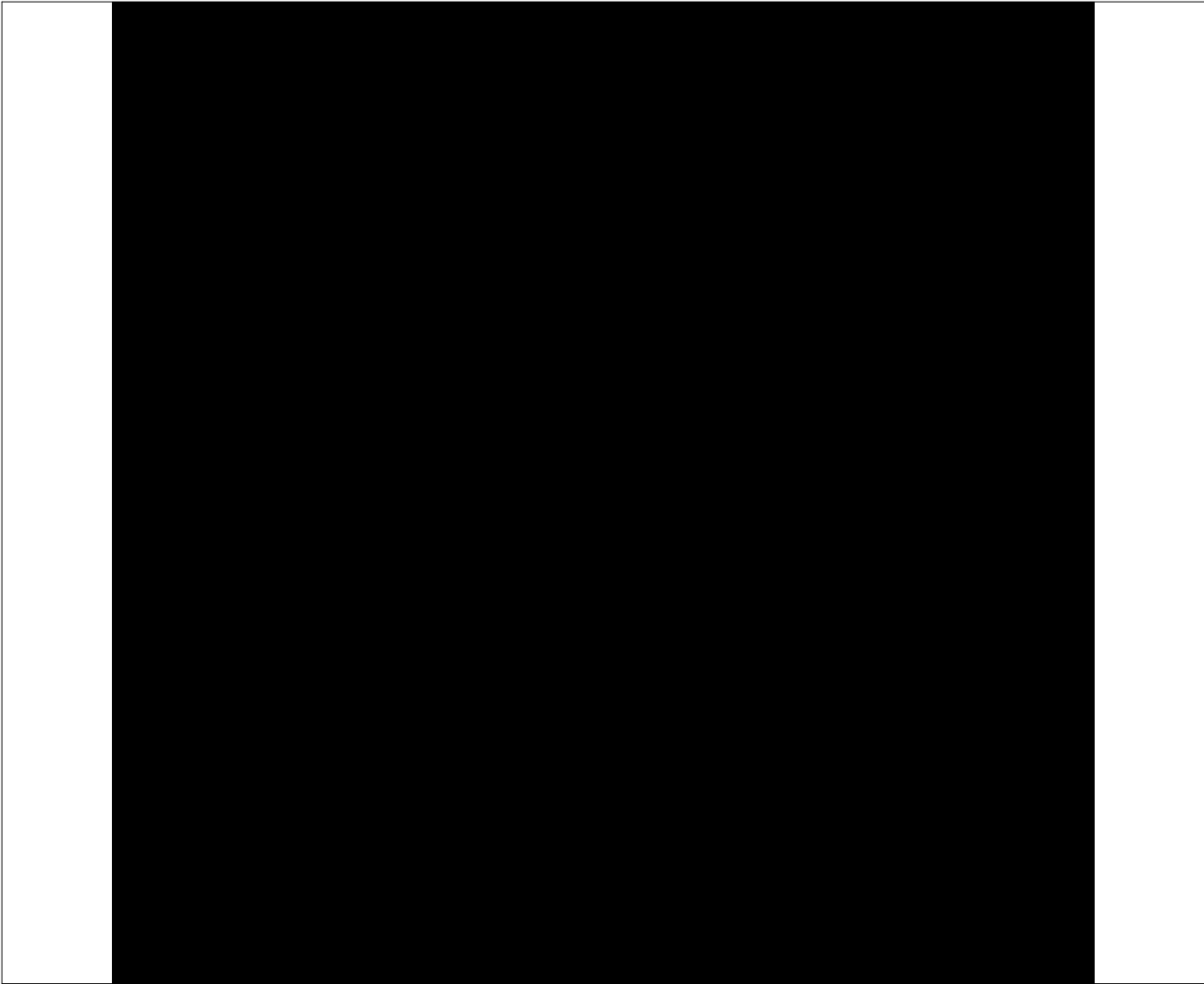
Working Plane Maximum Illuminance(lx): 353.07

Working Plane Maximum Illuminance Position(d/h):H-0.0 V-0.0

3D Plane ISO Illuminance Diagram

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp   | Lum. Catelog:         | Test ID: t001         |
| Lamp Name: 1169       | Lamp Catelog: LED     | Test Lab: volnic      |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/12 |

3D Plane Illuminance Modal



Curves: 3D Model— 90%— 80%— 70%— 60%— 50%— 40%— 30%— 20%— 10%—

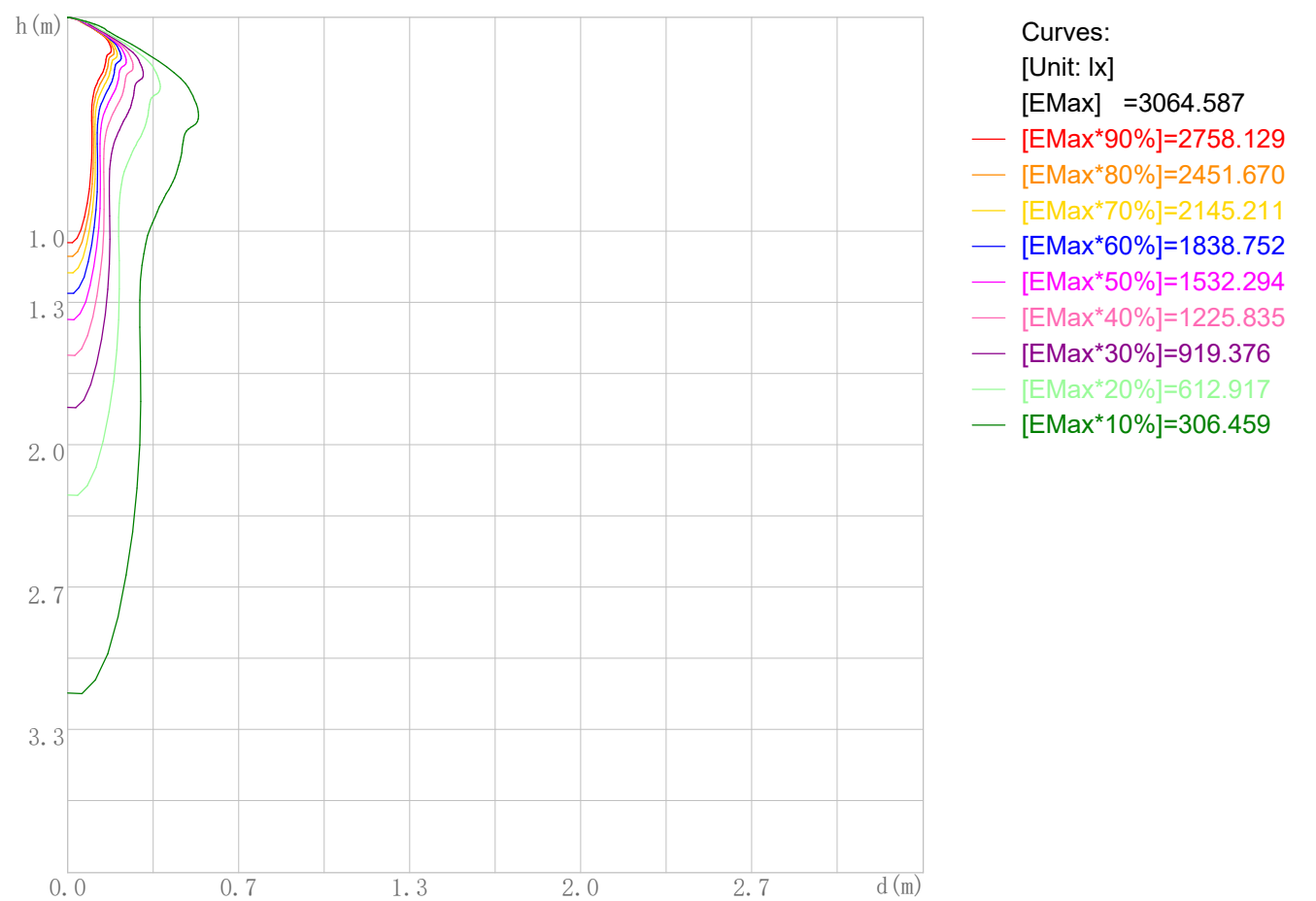
View Angles(deg): 0    Height(m): 3.0    Distance(m): 10.0



Space ISO Illuminance Diagram

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp   | Lum. Catalog:         | Test ID: t001         |
| Lamp Name: 1169       | Lamp Catalog: LED     | Test Lab: volnic      |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/12 |

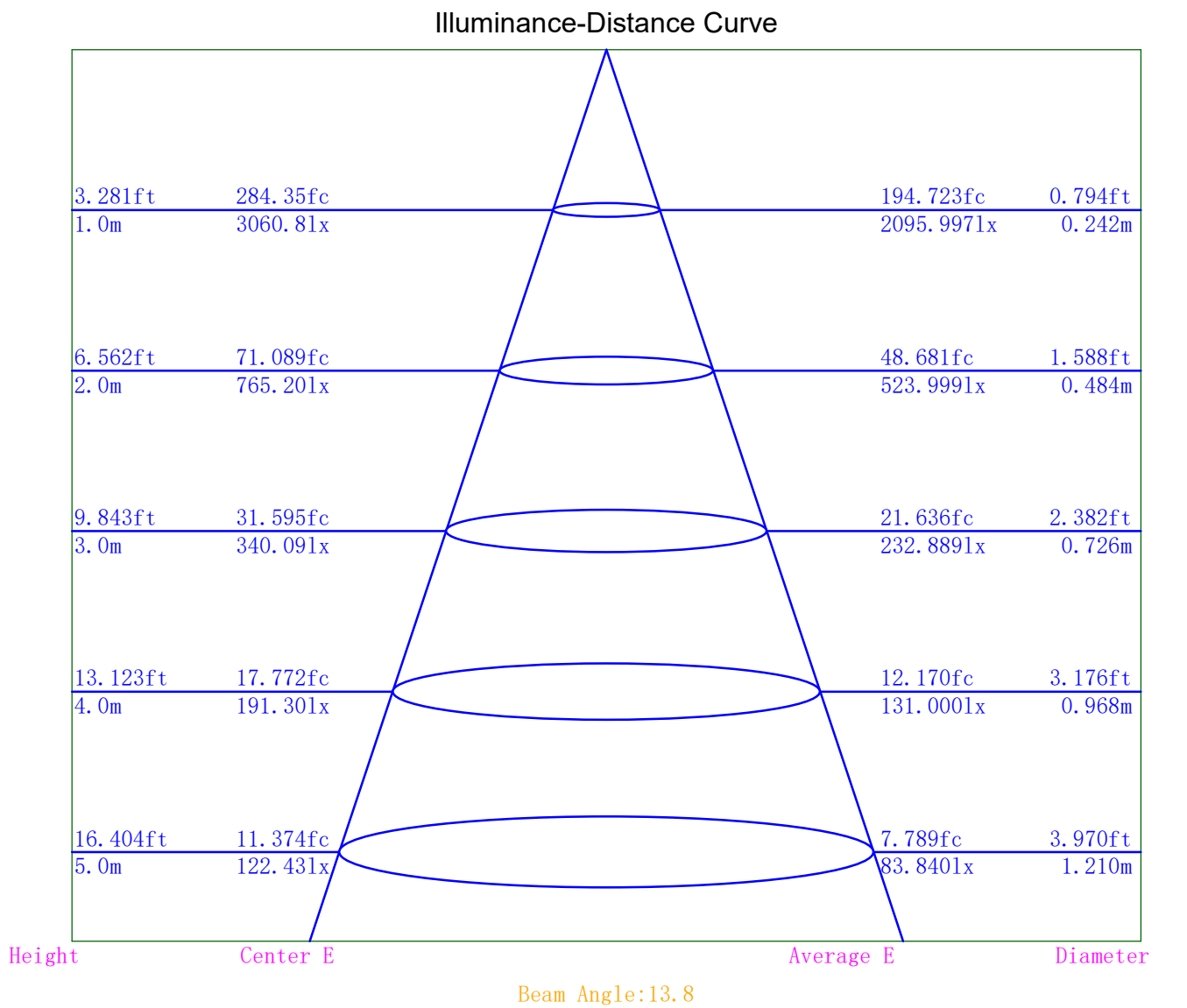
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:3064.59lx,1.0deg  
Plane Maximum Lighting Intensity and @Angle:3065.988cd,0eg

Illuminance-Distance Diagram

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp   | Lum. Catelog:         | Test ID: t001         |
| Lamp Name: 1169       | Lamp Catelog: LED     | Test Lab: volnic      |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/12 |



Indoor Luminance Limiting Curves

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp   | Lum. Catalog:         | Test ID: t001         |
| Lamp Name: 1169       | Lamp Catalog: LED     | Test Lab: volnic      |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/12 |

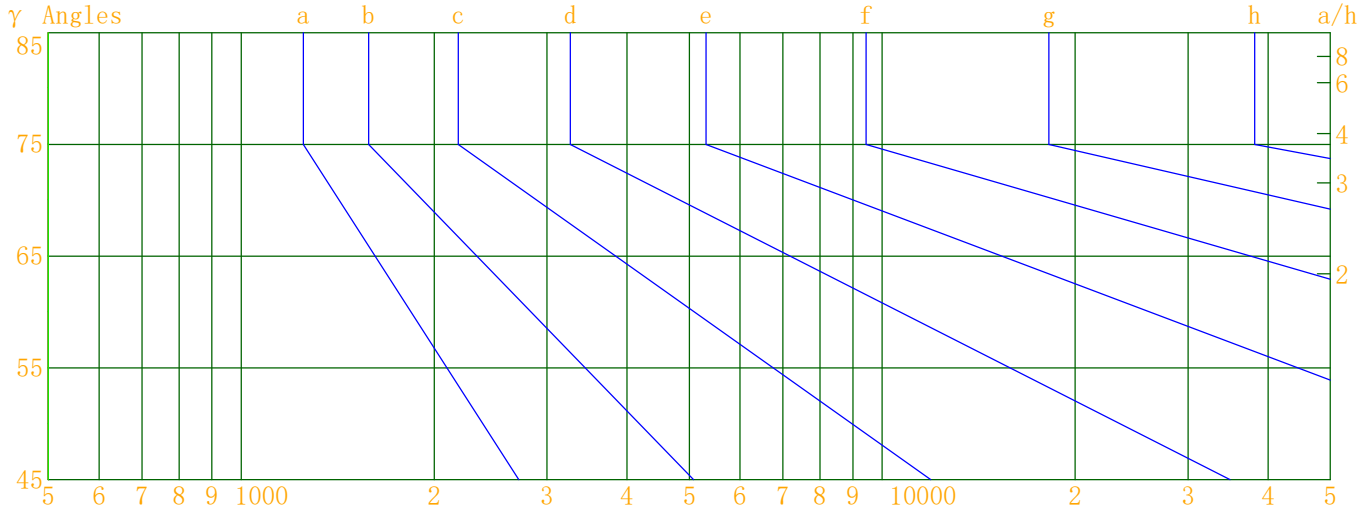
Glare Grade Table

| GI   | Quality | Using Illuminance |      |      |       |       |       |       |       |
|------|---------|-------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A       | 2000              | 1000 | 500  | <=300 |       |       |       |       |
| 1.5  | B       |                   | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85 | C       |                   |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.2  | D       |                   |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55 | E       | a                 |      |      |       | 2000  | 1000  | 500   | <=300 |
|      |         |                   | b    | c    | d     | e     | f     | g     | h     |

Luminance Table

| Gama (deg) | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|------------|----|----|----|----|----|----|----|----|----|
| C0         | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| C90        | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |

Luminance Limiting Curve



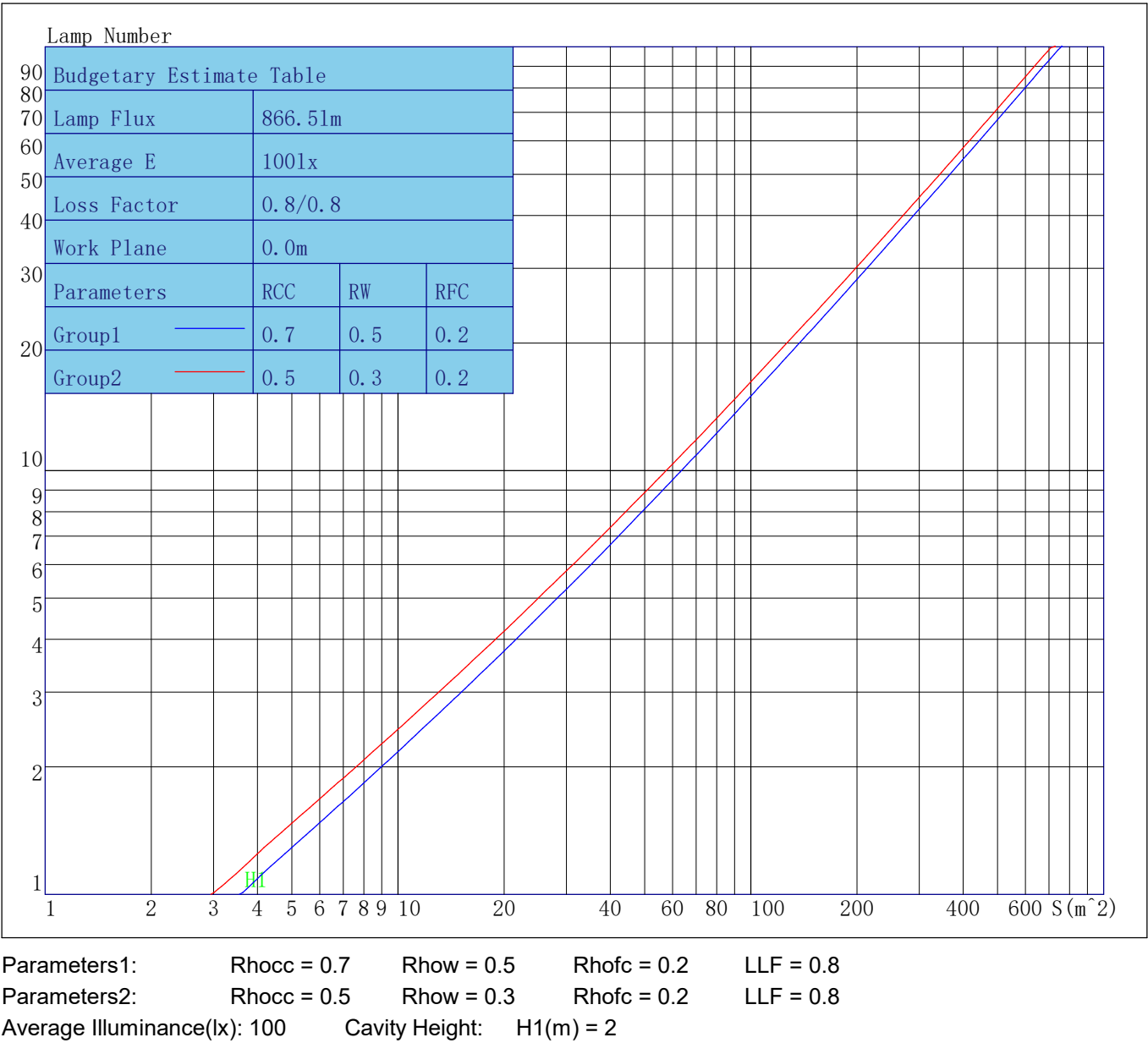
Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m^2)=0.000000

Luminous Type: Without Luminous Side

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

Indoor Budgetary Estimate Table

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp   | Lum. Catalog:         | Test ID: t001         |
| Lamp Name: 1169       | Lamp Catalog: LED     | Test Lab: volnic      |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/12 |



Indoor Coefficient of Utilization Table

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp   | Lum. Catelog:         | Test ID: t001         |
| Lamp Name: 1169       | Lamp Catelog: LED     | Test Lab: volnic      |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/12 |

| 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                                                 | 143                                         | 143 | 143 | 143 | 140 | 140 | 140 | 140 | 134 | 134 | 134 | 128 | 128 | 128 | 123 | 123 | 123 | 120 |
| 1                                                 | 135                                         | 131 | 127 | 124 | 132 | 128 | 125 | 122 | 123 | 120 | 118 | 119 | 116 | 114 | 114 | 113 | 111 | 109 |
| 2                                                 | 126                                         | 119 | 112 | 107 | 123 | 116 | 111 | 106 | 112 | 108 | 104 | 109 | 105 | 101 | 105 | 102 | 99  | 97  |
| 3                                                 | 117                                         | 108 | 100 | 94  | 115 | 106 | 99  | 94  | 103 | 97  | 92  | 100 | 95  | 90  | 97  | 93  | 89  | 87  |
| 4                                                 | 110                                         | 99  | 90  | 84  | 107 | 97  | 89  | 83  | 94  | 88  | 82  | 92  | 86  | 81  | 89  | 84  | 80  | 78  |
| 5                                                 | 103                                         | 91  | 82  | 76  | 101 | 89  | 81  | 75  | 87  | 80  | 75  | 85  | 79  | 74  | 83  | 77  | 73  | 71  |
| 6                                                 | 97                                          | 84  | 75  | 69  | 95  | 83  | 75  | 69  | 81  | 74  | 68  | 79  | 72  | 68  | 77  | 72  | 67  | 65  |
| 7                                                 | 91                                          | 78  | 69  | 63  | 89  | 77  | 69  | 63  | 75  | 68  | 63  | 74  | 67  | 62  | 72  | 67  | 62  | 60  |
| 8                                                 | 86                                          | 73  | 65  | 59  | 85  | 72  | 64  | 59  | 71  | 64  | 58  | 69  | 63  | 58  | 68  | 62  | 58  | 56  |
| 9                                                 | 82                                          | 69  | 60  | 55  | 81  | 68  | 60  | 55  | 67  | 60  | 55  | 66  | 59  | 54  | 65  | 59  | 54  | 52  |
| 10                                                | 78                                          | 65  | 57  | 52  | 77  | 64  | 57  | 52  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 49  |

Unified Glare Rating Table

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Lum. Name: LED Lamp   | Lum. Catalog:         | Test ID: t001         |
| Lamp Name: 1169       | Lamp Catalog: LED     | Test Lab: volnic      |
| Manufacture: NORDECOR | Test Machine:GON-2000 | Test Date: 2024/01/12 |

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  | -2.8            | -1.2 | -2.4 | -0.9 | -0.6 | -2.8          | -1.2 | -2.4 | -0.9 | -0.6 |
|                                                   | Y=3H  | -3.0            | -1.5 | -2.6 | -1.2 | -0.8 | -3.0          | -1.5 | -2.6 | -1.2 | -0.8 |
|                                                   | Y=4H  | -3.0            | -1.6 | -2.6 | -1.3 | -0.9 | -3.0          | -1.6 | -2.6 | -1.3 | -0.9 |
|                                                   | Y=6H  | -3.1            | -1.8 | -2.7 | -1.4 | -1.1 | -3.1          | -1.8 | -2.7 | -1.4 | -1.1 |
|                                                   | Y=8H  | -3.2            | -1.9 | -2.8 | -1.5 | -1.1 | -3.2          | -1.9 | -2.8 | -1.5 | -1.1 |
|                                                   | Y=12H | -3.2            | -2.0 | -2.8 | -1.6 | -1.2 | -3.2          | -2.0 | -2.8 | -1.6 | -1.2 |
| X=4H                                              | Y=2H  | -3.0            | -1.6 | -2.6 | -1.3 | -0.9 | -3.0          | -1.6 | -2.6 | -1.3 | -0.9 |
|                                                   | Y=3H  | -3.2            | -2.0 | -2.8 | -1.6 | -1.2 | -3.2          | -2.0 | -2.8 | -1.6 | -1.2 |
|                                                   | Y=4H  | -3.3            | -2.2 | -2.9 | -1.8 | -1.3 | -3.3          | -2.2 | -2.9 | -1.8 | -1.3 |
|                                                   | Y=6H  | -3.4            | -2.4 | -3.0 | -1.9 | -1.5 | -3.4          | -2.4 | -3.0 | -1.9 | -1.5 |
|                                                   | Y=8H  | -3.5            | -2.5 | -3.0 | -2.0 | -1.6 | -3.5          | -2.5 | -3.0 | -2.0 | -1.6 |
|                                                   | Y=12H | -3.5            | -2.6 | -3.0 | -2.1 | -1.6 | -3.5          | -2.6 | -3.0 | -2.1 | -1.6 |
| X=8H                                              | Y=4H  | -3.5            | -2.5 | -3.0 | -2.0 | -1.6 | -3.5          | -2.5 | -3.0 | -2.0 | -1.6 |
|                                                   | Y=6H  | -3.6            | -2.7 | -3.1 | -2.2 | -1.6 | -3.6          | -2.7 | -3.1 | -2.2 | -1.6 |
|                                                   | Y=8H  | -3.7            | -2.8 | -3.2 | -2.3 | -1.8 | -3.7          | -2.8 | -3.2 | -2.3 | -1.8 |
|                                                   | Y=12H | -3.7            | -2.9 | -3.2 | -2.4 | -1.9 | -3.7          | -2.9 | -3.2 | -2.4 | -1.9 |
| X=12H                                             | Y=4H  | -3.5            | -2.6 | -3.0 | -2.1 | -1.6 | -3.5          | -2.6 | -3.0 | -2.1 | -1.6 |
|                                                   | Y=6H  | -3.7            | -2.8 | -3.1 | -2.3 | -1.8 | -3.7          | -2.8 | -3.1 | -2.3 | -1.8 |
|                                                   | Y=8H  | -3.7            | -2.9 | -3.2 | -2.4 | -1.9 | -3.7          | -2.9 | -3.2 | -2.4 | -1.9 |
| 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:                            |       | BK0             |      |      |      |      | BK0           |      |      |      |      |
| Correction Value                                  |       | 0.0             |      |      |      |      | 0.0           |      |      |      |      |

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

**IES Indoor Report**  
**Photometric Filename:1141.IES**

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**Candela Tabulation**

| V/H    | C0.0    | C90.0   | C180.0  | C270.0  |
|--------|---------|---------|---------|---------|
| γ 0.0  | 3060.79 | 3060.79 | 3060.79 | 3060.79 |
| γ 1.0  | 3065.99 | 2878.82 | 2955.41 | 3157.77 |
| γ 2.0  | 2947.11 | 2645.93 | 2768.55 | 3183.44 |
| γ 3.0  | 2725.51 | 2355.48 | 2534.34 | 3107.45 |
| γ 4.0  | 2426.25 | 2016.53 | 2265.03 | 2940.10 |
| γ 5.0  | 2108.34 | 1661.31 | 1977.89 | 2711.93 |
| γ 6.0  | 1805.82 | 1331.08 | 1679.60 | 2429.72 |
| γ 7.0  | 1520.03 | 1050.38 | 1385.96 | 2112.83 |
| γ 8.0  | 1261.81 | 831.87  | 1110.64 | 1782.51 |
| γ 9.0  | 1027.24 | 670.23  | 875.70  | 1459.21 |
| γ 10.0 | 830.42  | 556.45  | 696.85  | 1168.22 |
| γ 11.0 | 679.78  | 478.12  | 571.38  | 920.29  |
| γ 12.0 | 573.18  | 427.67  | 488.31  | 729.03  |
| γ 13.0 | 500.30  | 394.07  | 435.98  | 589.71  |
| γ 14.0 | 451.64  | 371.34  | 404.44  | 495.08  |
| γ 15.0 | 416.00  | 352.42  | 382.27  | 436.23  |
| γ 16.0 | 387.24  | 335.60  | 366.87  | 399.17  |
| γ 17.0 | 364.55  | 320.29  | 353.41  | 375.73  |
| γ 18.0 | 348.51  | 304.41  | 340.74  | 357.14  |
| γ 19.0 | 334.98  | 290.92  | 328.55  | 339.07  |
| γ 20.0 | 322.74  | 278.56  | 318.74  | 322.17  |
| γ 21.0 | 312.01  | 267.60  | 309.63  | 307.14  |
| γ 22.0 | 301.62  | 257.69  | 298.50  | 295.64  |
| γ 23.0 | 294.20  | 248.57  | 289.30  | 286.79  |
| γ 24.0 | 286.74  | 241.18  | 279.19  | 277.93  |
| γ 25.0 | 279.86  | 234.24  | 271.92  | 267.73  |
| γ 26.0 | 274.73  | 228.60  | 265.35  | 259.40  |
| γ 27.0 | 269.32  | 224.88  | 257.24  | 250.23  |
| γ 28.0 | 264.14  | 220.51  | 249.73  | 243.94  |
| γ 29.0 | 258.53  | 215.63  | 244.03  | 238.18  |
| γ 30.0 | 253.36  | 210.90  | 237.92  | 233.60  |
| γ 31.0 | 247.00  | 205.09  | 231.63  | 230.23  |
| γ 32.0 | 240.99  | 198.58  | 225.85  | 225.98  |
| γ 33.0 | 235.35  | 192.38  | 219.80  | 221.70  |
| γ 34.0 | 230.01  | 186.71  | 214.78  | 217.70  |
| γ 35.0 | 224.32  | 182.18  | 209.46  | 212.94  |
| γ 36.0 | 218.14  | 178.89  | 205.50  | 208.63  |
| γ 37.0 | 212.79  | 177.40  | 202.45  | 203.92  |
| γ 38.0 | 208.05  | 177.86  | 200.36  | 198.64  |
| γ 39.0 | 204.85  | 179.85  | 199.82  | 193.39  |
| γ 40.0 | 202.35  | 182.11  | 201.25  | 189.33  |
| γ 41.0 | 201.92  | 184.05  | 204.72  | 186.87  |
| γ 42.0 | 203.93  | 185.98  | 208.94  | 185.30  |
| γ 43.0 | 207.27  | 187.16  | 213.21  | 183.48  |
| γ 44.0 | 211.50  | 187.83  | 216.75  | 182.46  |
| γ 45.0 | 215.48  | 185.52  | 218.79  | 182.20  |
| γ 46.0 | 217.77  | 183.23  | 217.90  | 182.48  |

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Candela Tabulation - (Cont.)

| V/H    | C0.0   | C90.0  | C180.0 | C270.0 |
|--------|--------|--------|--------|--------|
| γ 47.0 | 217.91 | 181.23 | 215.07 | 182.89 |
| γ 48.0 | 215.63 | 178.87 | 211.48 | 182.45 |
| γ 49.0 | 212.37 | 176.85 | 206.68 | 181.50 |
| γ 50.0 | 207.81 | 174.46 | 201.43 | 180.65 |
| γ 51.0 | 202.40 | 171.70 | 195.81 | 179.19 |
| γ 52.0 | 196.18 | 167.76 | 190.00 | 177.44 |
| γ 53.0 | 189.91 | 162.69 | 184.11 | 175.18 |
| γ 54.0 | 183.38 | 155.12 | 177.35 | 172.54 |
| γ 55.0 | 176.67 | 143.14 | 168.48 | 169.55 |
| γ 56.0 | 168.03 | 126.69 | 153.22 | 166.01 |
| γ 57.0 | 154.65 | 108.35 | 133.92 | 160.68 |
| γ 58.0 | 137.74 | 88.79  | 115.24 | 151.02 |
| γ 59.0 | 120.00 | 70.29  | 95.85  | 134.89 |
| γ 60.0 | 101.30 | 55.62  | 76.50  | 115.53 |
| γ 61.0 | 82.69  | 44.10  | 61.46  | 95.17  |
| γ 62.0 | 66.52  | 34.69  | 48.82  | 74.86  |
| γ 63.0 | 52.87  | 27.84  | 38.91  | 58.52  |
| γ 64.0 | 41.94  | 24.18  | 31.85  | 46.06  |
| γ 65.0 | 33.60  | 20.93  | 27.38  | 36.05  |
| γ 66.0 | 28.62  | 18.88  | 23.36  | 28.40  |
| γ 67.0 | 24.25  | 17.58  | 20.80  | 25.21  |
| γ 68.0 | 22.33  | 17.12  | 20.13  | 23.53  |
| γ 69.0 | 21.42  | 15.47  | 19.81  | 22.56  |
| γ 70.0 | 20.75  | 13.20  | 18.33  | 22.27  |
| γ 71.0 | 18.81  | 10.16  | 16.02  | 22.04  |
| γ 72.0 | 16.22  | 6.74   | 12.70  | 20.95  |
| γ 73.0 | 12.83  | 4.22   | 8.77   | 18.78  |
| γ 74.0 | 9.23   | 2.42   | 5.37   | 15.56  |
| γ 75.0 | 6.39   | 0.64   | 2.74   | 12.12  |
| γ 76.0 | 4.42   | 0.00   | 0.50   | 9.30   |
| γ 77.0 | 1.71   | 0.00   | 0.00   | 6.70   |
| γ 78.0 | 0.80   | 0.00   | 0.00   | 4.48   |
| γ 79.0 | 0.54   | 0.00   | 0.00   | 1.81   |
| γ 80.0 | 0.20   | 0.00   | 0.00   | 0.87   |
| γ 81.0 | 0.04   | 0.00   | 0.00   | 0.42   |
| γ 82.0 | 0.00   | 0.00   | 0.00   | 0.23   |
| γ 83.0 | 0.00   | 0.00   | 0.00   | 0.10   |
| 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:1141.IES**

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**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:1141.IES**

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**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 | 0.08 | 0.00  | 0.00   | 0.00   |
| γ 146.0 | 0.21 | 0.00  | 0.00   | 0.07   |
| γ 147.0 | 0.29 | 0.03  | 0.00   | 0.15   |
| γ 148.0 | 0.37 | 0.08  | 0.00   | 0.24   |
| γ 149.0 | 0.47 | 0.16  | 0.00   | 0.34   |
| γ 150.0 | 0.55 | 0.21  | 0.00   | 0.42   |
| γ 151.0 | 0.62 | 0.32  | 0.08   | 0.53   |
| γ 152.0 | 0.70 | 0.37  | 0.17   | 0.60   |
| γ 153.0 | 0.78 | 0.41  | 0.20   | 0.67   |
| γ 154.0 | 0.84 | 0.47  | 0.25   | 0.71   |
| γ 155.0 | 0.91 | 0.48  | 0.32   | 0.81   |
| γ 156.0 | 0.95 | 0.50  | 0.34   | 0.83   |
| γ 157.0 | 0.96 | 0.54  | 0.37   | 0.88   |
| γ 158.0 | 1.00 | 0.52  | 0.39   | 0.91   |
| γ 159.0 | 0.98 | 0.54  | 0.42   | 0.93   |
| γ 160.0 | 1.02 | 0.59  | 0.43   | 0.93   |
| γ 161.0 | 1.02 | 0.57  | 0.46   | 0.97   |
| γ 162.0 | 1.02 | 0.56  | 0.45   | 0.99   |
| γ 163.0 | 1.07 | 0.62  | 0.46   | 0.97   |
| γ 164.0 | 1.05 | 0.60  | 0.47   | 0.99   |
| γ 165.0 | 1.05 | 0.59  | 0.48   | 0.98   |
| γ 166.0 | 1.08 | 0.59  | 0.48   | 0.98   |
| γ 167.0 | 1.03 | 0.59  | 0.48   | 0.99   |
| γ 168.0 | 1.07 | 0.61  | 0.48   | 1.02   |
| γ 169.0 | 1.08 | 0.60  | 0.46   | 0.97   |
| γ 170.0 | 1.06 | 0.61  | 0.49   | 1.00   |
| γ 171.0 | 1.09 | 0.59  | 0.46   | 1.01   |
| γ 172.0 | 1.08 | 0.57  | 0.42   | 1.00   |
| γ 173.0 | 1.05 | 0.52  | 0.44   | 0.97   |
| γ 174.0 | 1.01 | 0.50  | 0.44   | 0.99   |
| γ 175.0 | 0.96 | 0.50  | 0.40   | 0.96   |
| γ 176.0 | 0.94 | 0.47  | 0.31   | 0.93   |
| γ 177.0 | 0.88 | 0.49  | 0.34   | 0.92   |
| γ 178.0 | 0.80 | 0.47  | 0.29   | 0.85   |
| γ 179.0 | 0.80 | 0.49  | 0.29   | 0.88   |
| γ 180.0 | 0.58 | 0.58  | 0.58   | 0.58   |