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# Indoor Luminaire Photometric Data

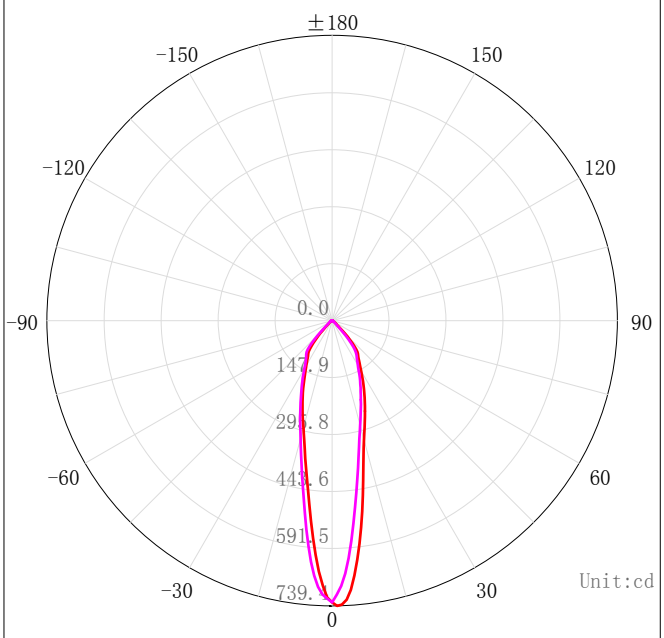
## Description Information

| | | | |
|---|---|---|---|
| Luminary Name: HCP-806024-3000K RA90 28D | | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | | Lamp Catelog: LED | Test Date: 2020/09/15 |
| Manufacture: Havit Commercial | | Shld.Ang(° ): | Test Machine:GON-2000 |
| Test Lab: Quality Department | | Frequency(Hz): | Lamp CCT(K): Ra: |
| Lum.Size(W*L*H):0.050m*0.000m*0.062m | | Lum.Area(m2):0.016 | Lum.W(kg): 0.000 |
| Test System: C, γ | Test Step: C=90.0 γ=1.0 | Temp.(℃): 25 | Humidity(%): 50.0 |

## Character Parameter

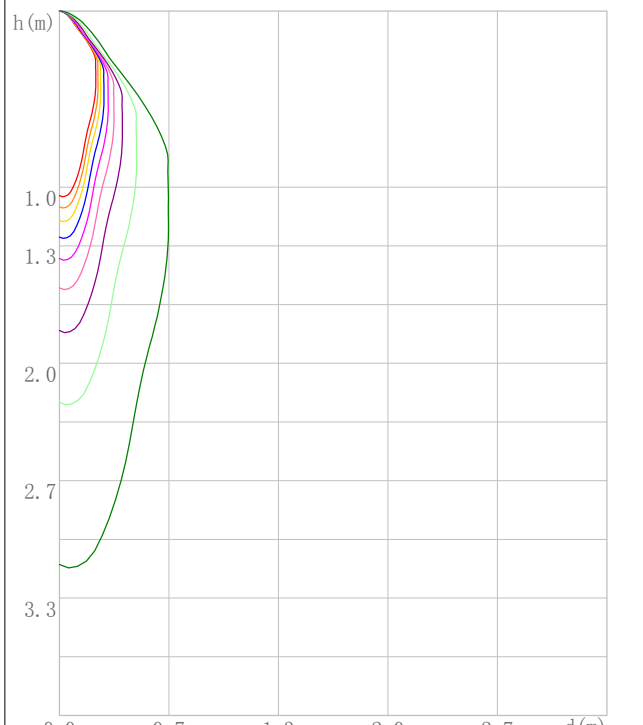
| Lamp Speciality Parameter | Luminaire Speciality Parameter | |
|---|---|---|
| Rated Flux(lm): 333.990 | Luminary Flux(lm): 333.990 | Field Angle(10%Imax): 82.5(° ) |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 333.664lm 99.90% |
| Rated Voltage(V): | Luminary EER(lm/W): 65.501 | Up Lumens&Percent: 0.327lm 0.10% |
| Tested Power(W): 5.099 | Max.Candela(cd): 739.395 | S/MH: C0_a180=0.392 C90_270=0.386 |
| Lamps' Inside: 1 | Max Cand@Ang.(° ): C=0.0 γ=1.0 | CIE Type: Semi-Direct |
| Tested Electrics(V,A,pf):240.1,0.025,0.824 | Beam Angle(50%Imax): 23.5(° ) | ErP Φuse(90° ): 306.344lm |
| Lamp Size(W*L*H):0.050m*0.000m*0.062m | Left=-10.8° ,Right=12.7° | IRF(%): 458.212 |

## C Plane Distribution Diagram




| C Plane | [50%MaxAng.] | [10%MaxAng.] |
|---|---|---|
| C0.0_180.0 : | 23.5 | 82.5 |
| C90.0_270.0 : | 23.4 | 82.9 |

## C0 Space ISO Illuminance Curve

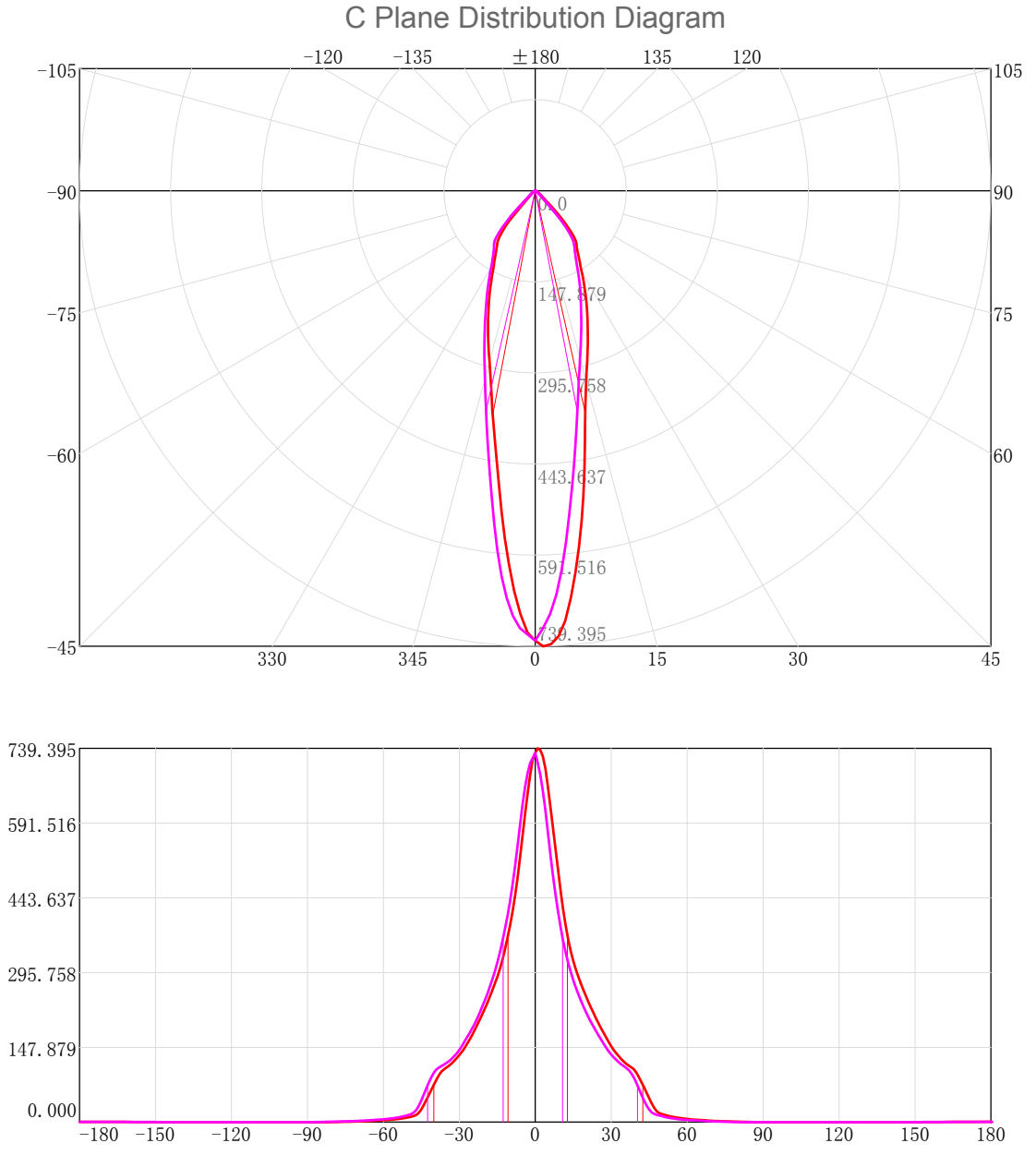



[Unit:lx] [EMax]=739.057 —[EMax*90%] —[EMax*80%] —[EMax*70%] —[EMax*60%] —[EMax*50%] —[EMax*40%] —[EMax*30%] —[EMax*20%] —[EMax*10%]

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# 2D Plane Light Intensity Distribution Curve

| | | |
|---|---|---|
| Lum.Name: HCP-806024-3000K RA90 28D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |



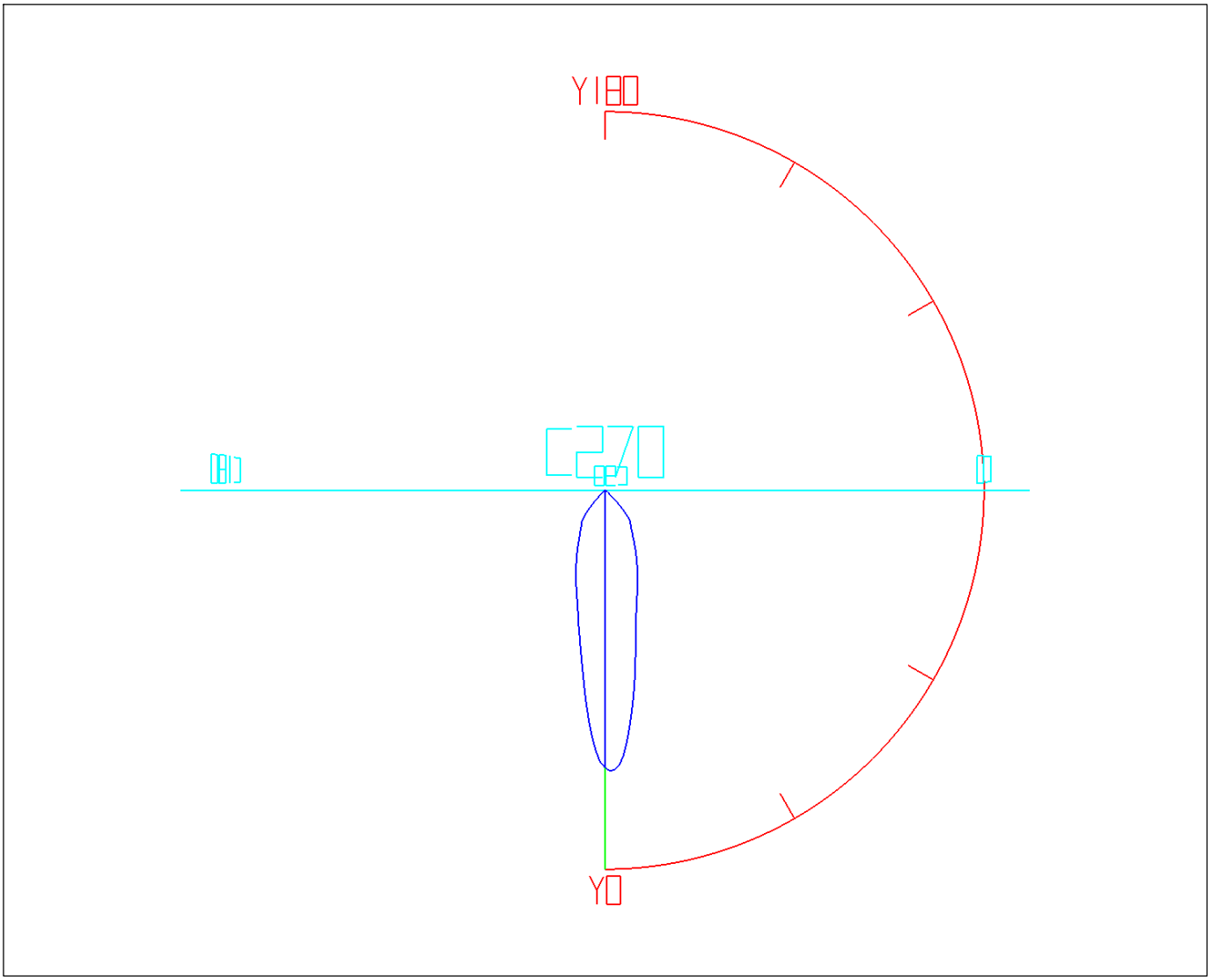

| C Plane | [50%MaxAng.] | [10%MaxAng.] | Unit:cd |
|---|---|---|---|
| C0.0_180.0 : | 23.5 | 82.5 | |
| C90.0_270.0 : | 23.4 | 82.9 | |

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# 3D Light Intensity Distribution Modal

| | | |
|---|---|---|
| Lum.Name: HCP-806024-3000K RA90 28D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

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 | 0.69 | 0.69 | 0.21 | 0.21 | 47.0-48.0 | 1.52 | 319.01 | 0.45 | 95.52 |
| 1.0-2.0 | 2.05 | 2.74 | 0.61 | 0.82 | 48.0-49.0 | 1.29 | 320.30 | 0.39 | 95.90 |
| 2.0-3.0 | 3.31 | 6.06 | 0.99 | 1.81 | 49.0-50.0 | 1.15 | 321.45 | 0.34 | 96.24 |
| 3.0-4.0 | 4.44 | 10.50 | 1.33 | 3.14 | 50.0-51.0 | 1.04 | 322.49 | 0.31 | 96.56 |
| 4.0-5.0 | 5.40 | 15.90 | 1.62 | 4.76 | 51.0-52.0 | 0.96 | 323.45 | 0.29 | 96.84 |
| 5.0-6.0 | 6.16 | 22.06 | 1.85 | 6.61 | 52.0-53.0 | 0.87 | 324.32 | 0.26 | 97.10 |
| 6.0-7.0 | 6.76 | 28.82 | 2.03 | 8.63 | 53.0-54.0 | 0.80 | 325.12 | 0.24 | 97.34 |
| 7.0-8.0 | 7.23 | 36.05 | 2.16 | 10.79 | 54.0-55.0 | 0.74 | 325.86 | 0.22 | 97.57 |
| 8.0-9.0 | 7.59 | 43.64 | 2.27 | 13.07 | 55.0-56.0 | 0.68 | 326.54 | 0.20 | 97.77 |
| 9.0-10.0 | 7.86 | 51.50 | 2.35 | 15.42 | 56.0-57.0 | 0.63 | 327.17 | 0.19 | 97.96 |
| 10.0-11.0 | 8.05 | 59.55 | 2.41 | 17.83 | 57.0-58.0 | 0.58 | 327.75 | 0.17 | 98.13 |
| 11.0-12.0 | 8.19 | 67.74 | 2.45 | 20.28 | 58.0-59.0 | 0.54 | 328.28 | 0.16 | 98.29 |
| 12.0-13.0 | 8.30 | 76.04 | 2.49 | 22.77 | 59.0-60.0 | 0.50 | 328.78 | 0.15 | 98.44 |
| 13.0-14.0 | 8.40 | 84.44 | 2.52 | 25.28 | 60.0-61.0 | 0.46 | 329.24 | 0.14 | 98.58 |
| 14.0-15.0 | 8.50 | 92.94 | 2.54 | 27.83 | 61.0-62.0 | 0.43 | 329.67 | 0.13 | 98.71 |
| 15.0-16.0 | 8.58 | 101.52 | 2.57 | 30.40 | 62.0-63.0 | 0.40 | 330.07 | 0.12 | 98.83 |
| 16.0-17.0 | 8.66 | 110.18 | 2.59 | 32.99 | 63.0-64.0 | 0.38 | 330.45 | 0.11 | 98.94 |
| 17.0-18.0 | 8.72 | 118.90 | 2.61 | 35.60 | 64.0-65.0 | 0.35 | 330.80 | 0.11 | 99.04 |
| 18.0-19.0 | 8.74 | 127.64 | 2.62 | 38.22 | 65.0-66.0 | 0.32 | 331.13 | 0.10 | 99.14 |
| 19.0-20.0 | 8.74 | 136.38 | 2.62 | 40.83 | 66.0-67.0 | 0.30 | 331.42 | 0.09 | 99.23 |
| 20.0-21.0 | 8.71 | 145.09 | 2.61 | 43.44 | 67.0-68.0 | 0.27 | 331.69 | 0.08 | 99.31 |
| 21.0-22.0 | 8.67 | 153.76 | 2.60 | 46.04 | 68.0-69.0 | 0.24 | 331.93 | 0.07 | 99.38 |
| 22.0-23.0 | 8.62 | 162.38 | 2.58 | 48.62 | 69.0-70.0 | 0.22 | 332.15 | 0.07 | 99.45 |
| 23.0-24.0 | 8.54 | 170.92 | 2.56 | 51.17 | 70.0-71.0 | 0.20 | 332.35 | 0.06 | 99.51 |
| 24.0-25.0 | 8.44 | 179.36 | 2.53 | 53.70 | 71.0-72.0 | 0.18 | 332.53 | 0.05 | 99.56 |
| 25.0-26.0 | 8.33 | 187.70 | 2.50 | 56.20 | 72.0-73.0 | 0.16 | 332.69 | 0.05 | 99.61 |
| 26.0-27.0 | 8.20 | 195.90 | 2.46 | 58.65 | 73.0-74.0 | 0.15 | 332.84 | 0.04 | 99.65 |
| 27.0-28.0 | 8.05 | 203.95 | 2.41 | 61.07 | 74.0-75.0 | 0.13 | 332.97 | 0.04 | 99.70 |
| 28.0-29.0 | 7.89 | 211.85 | 2.36 | 63.43 | 75.0-76.0 | 0.12 | 333.09 | 0.04 | 99.73 |
| 29.0-30.0 | 7.74 | 219.59 | 2.32 | 65.75 | 76.0-77.0 | 0.11 | 333.20 | 0.03 | 99.76 |
| 30.0-31.0 | 7.61 | 227.19 | 2.28 | 68.02 | 77.0-78.0 | 0.09 | 333.29 | 0.03 | 99.79 |
| 31.0-32.0 | 7.49 | 234.68 | 2.24 | 70.27 | 78.0-79.0 | 0.08 | 333.37 | 0.02 | 99.82 |
| 32.0-33.0 | 7.38 | 242.06 | 2.21 | 72.48 | 79.0-80.0 | 0.07 | 333.44 | 0.02 | 99.84 |
| 33.0-34.0 | 7.29 | 249.35 | 2.18 | 74.66 | 80.0-81.0 | 0.06 | 333.50 | 0.02 | 99.85 |
| 34.0-35.0 | 7.20 | 256.55 | 2.16 | 76.81 | 81.0-82.0 | 0.04 | 333.54 | 0.01 | 99.87 |
| 35.0-36.0 | 7.14 | 263.69 | 2.14 | 78.95 | 82.0-83.0 | 0.04 | 333.58 | 0.01 | 99.88 |
| 36.0-37.0 | 7.07 | 270.75 | 2.12 | 81.07 | 83.0-84.0 | 0.03 | 333.61 | 0.01 | 99.89 |
| 37.0-38.0 | 6.94 | 277.69 | 2.08 | 83.14 | 84.0-85.0 | 0.02 | 333.63 | 0.01 | 99.89 |
| 38.0-39.0 | 6.72 | 284.41 | 2.01 | 85.16 | 85.0-86.0 | 0.02 | 333.65 | 0.01 | 99.90 |
| 39.0-40.0 | 6.36 | 290.76 | 1.90 | 87.06 | 86.0-87.0 | 0.01 | 333.66 | 0.00 | 99.90 |
| 40.0-41.0 | 5.84 | 296.61 | 1.75 | 88.81 | 87.0-88.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 41.0-42.0 | 5.22 | 301.83 | 1.56 | 90.37 | 88.0-89.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 42.0-43.0 | 4.52 | 306.35 | 1.35 | 91.72 | 89.0-90.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 43.0-44.0 | 3.79 | 310.13 | 1.13 | 92.86 | 90.0-91.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 44.0-45.0 | 3.07 | 313.20 | 0.92 | 93.77 | 91.0-92.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 45.0-46.0 | 2.41 | 315.61 | 0.72 | 94.50 | 92.0-93.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 46.0-47.0 | 1.89 | 317.50 | 0.56 | 95.06 | 93.0-94.0 | 0.00 | 333.66 | 0.00 | 99.90 |

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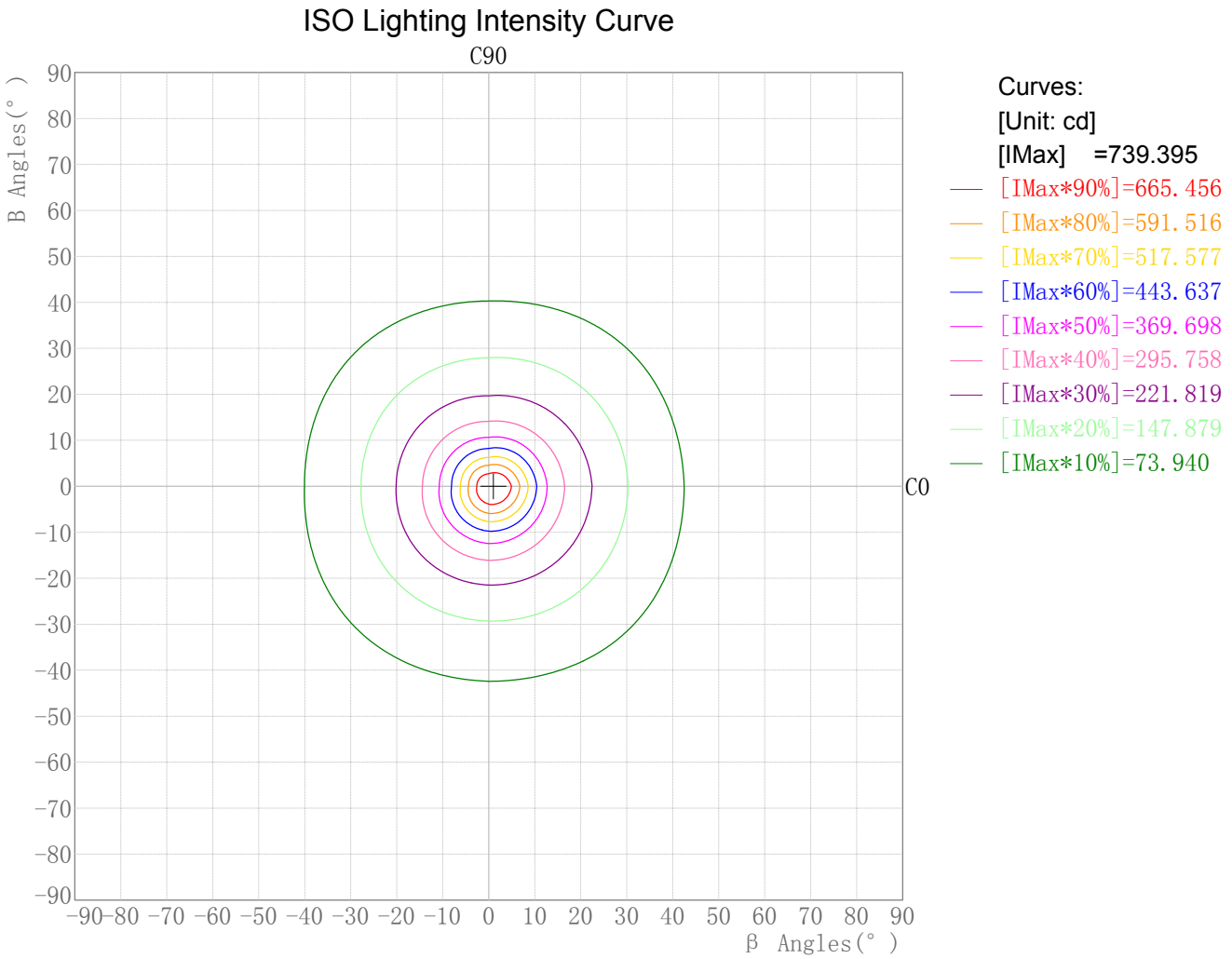
# Zonal Flux Tabulation - (Cont.)

| Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|---|---|---|---|---|
| 94.0-95.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 95.0-96.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 96.0-97.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 97.0-98.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 98.0-99.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 99.0-100.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 100.0-101.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 101.0-102.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 102.0-103.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 103.0-104.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 104.0-105.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 105.0-106.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 106.0-107.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 107.0-108.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 108.0-109.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 109.0-110.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 110.0-111.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 111.0-112.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 112.0-113.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 113.0-114.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 114.0-115.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 115.0-116.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 116.0-117.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 117.0-118.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 118.0-119.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 119.0-120.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 120.0-121.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 121.0-122.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 122.0-123.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 123.0-124.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 124.0-125.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 125.0-126.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 126.0-127.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 127.0-128.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 128.0-129.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 129.0-130.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 130.0-131.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 131.0-132.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 132.0-133.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 133.0-134.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 134.0-135.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 135.0-136.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 136.0-137.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 137.0-138.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 138.0-139.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 139.0-140.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 140.0-141.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 141.0-142.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 142.0-143.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 143.0-144.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 144.0-145.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 145.0-146.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 146.0-147.0 | 0.00 | 333.66 | 0.00 | 99.90 |
| 147.0-148.0 | 0.00 | 333.67 | 0.00 | 99.90 |
| 148.0-149.0 | 0.00 | 333.67 | 0.00 | 99.90 |
| 149.0-150.0 | 0.00 | 333.67 | 0.00 | 99.91 |
| 150.0-151.0 | 0.01 | 333.68 | 0.00 | 99.91 |
| 151.0-152.0 | 0.01 | 333.69 | 0.00 | 99.91 |
| 152.0-153.0 | 0.01 | 333.70 | 0.00 | 99.91 |
| 153.0-154.0 | 0.01 | 333.71 | 0.00 | 99.92 |
| 154.0-155.0 | 0.01 | 333.72 | 0.00 | 99.92 |
| 155.0-156.0 | 0.01 | 333.73 | 0.00 | 99.92 |
| 156.0-157.0 | 0.01 | 333.74 | 0.00 | 99.93 |
| 157.0-158.0 | 0.01 | 333.76 | 0.00 | 99.93 |
| 158.0-159.0 | 0.01 | 333.77 | 0.00 | 99.93 |
| 159.0-160.0 | 0.01 | 333.79 | 0.00 | 99.94 |
| 160.0-161.0 | 0.01 | 333.80 | 0.00 | 99.94 |
| 161.0-162.0 | 0.02 | 333.82 | 0.00 | 99.95 |
| 162.0-163.0 | 0.02 | 333.83 | 0.00 | 99.95 |
| 163.0-164.0 | 0.01 | 333.85 | 0.00 | 99.96 |
| 164.0-165.0 | 0.01 | 333.86 | 0.00 | 99.96 |
| 165.0-166.0 | 0.01 | 333.87 | 0.00 | 99.97 |
| 166.0-167.0 | 0.01 | 333.89 | 0.00 | 99.97 |
| 167.0-168.0 | 0.01 | 333.90 | 0.00 | 99.97 |
| 168.0-169.0 | 0.01 | 333.91 | 0.00 | 99.98 |
| 169.0-170.0 | 0.01 | 333.93 | 0.00 | 99.98 |
| 170.0-171.0 | 0.01 | 333.94 | 0.00 | 99.98 |
| 171.0-172.0 | 0.01 | 333.95 | 0.00 | 99.99 |
| 172.0-173.0 | 0.01 | 333.96 | 0.00 | 99.99 |
| 173.0-174.0 | 0.01 | 333.97 | 0.00 | 99.99 |
| 174.0-175.0 | 0.01 | 333.97 | 0.00 | 100.00 |
| 175.0-176.0 | 0.01 | 333.98 | 0.00 | 100.00 |
| 176.0-177.0 | 0.00 | 333.98 | 0.00 | 100.00 |
| 177.0-178.0 | 0.00 | 333.99 | 0.00 | 100.00 |
| 178.0-179.0 | 0.00 | 333.99 | 0.00 | 100.00 |
| 179.0-180.0 | 0.00 | 333.99 | 0.00 | 100.00 |

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# Rectangle ISO Lighting Intensity Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-806024-3000K RA90 28D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |



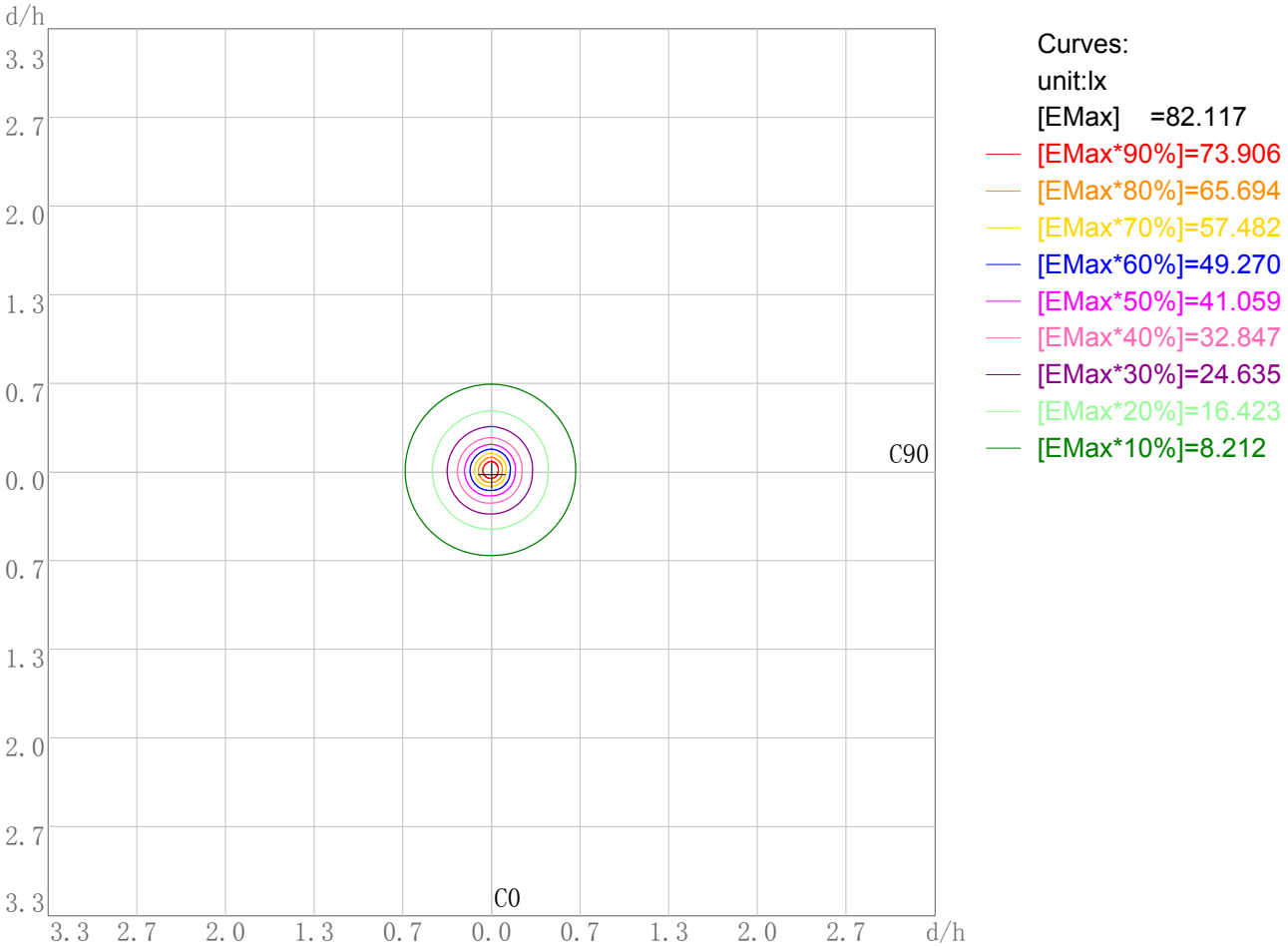

Maximum Light Intensity(cd): 739.40
Maximum Cand.@Angle: H=1.0°,V=0.0°

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# Plane ISO-Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-806024-3000K RA90 28D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

## Plane ISO-Illuminance Curve



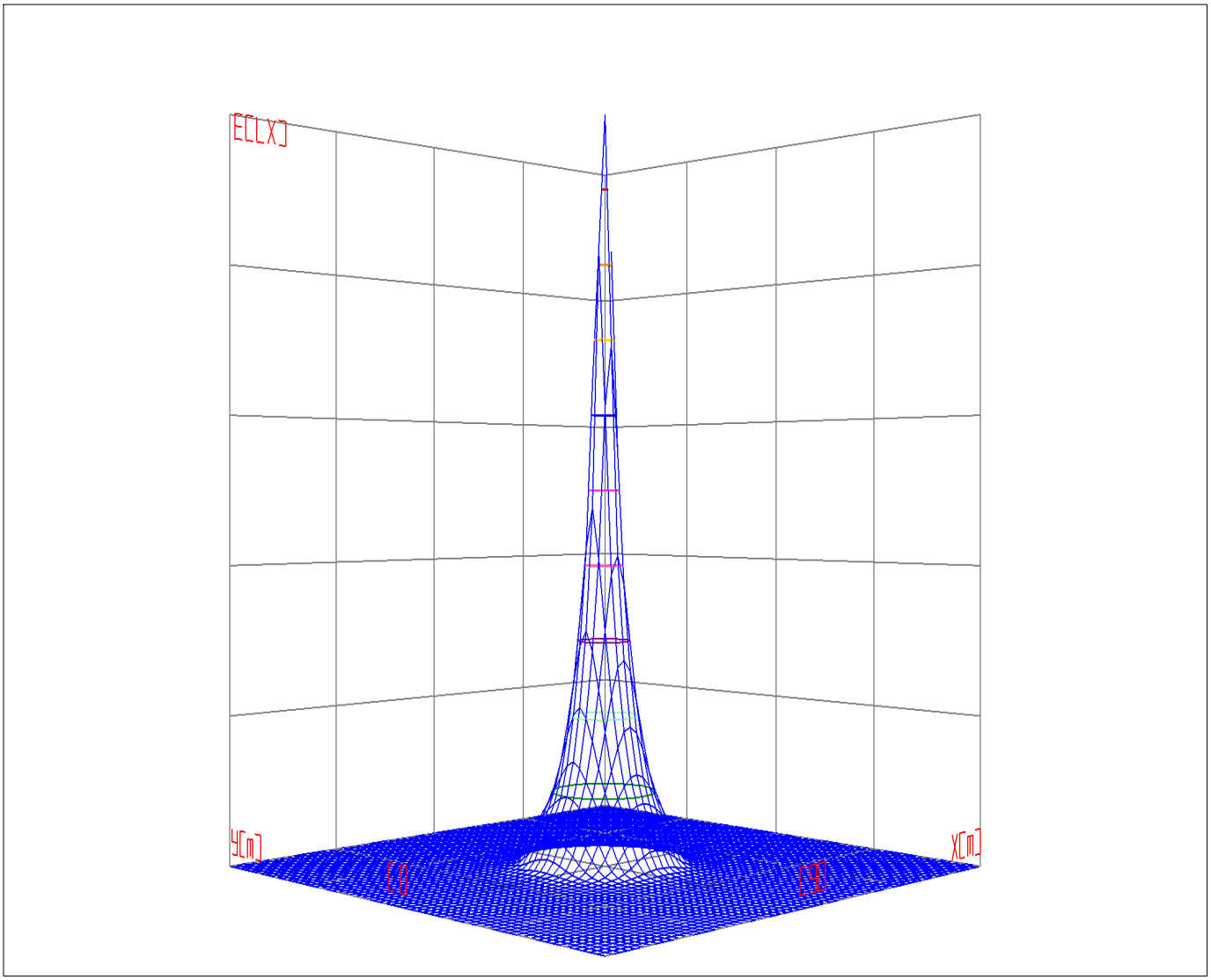

Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 82.12
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

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# 3D Plane ISO Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-806024-3000K RA90 28D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

## 3D Plane Illuminance Modal



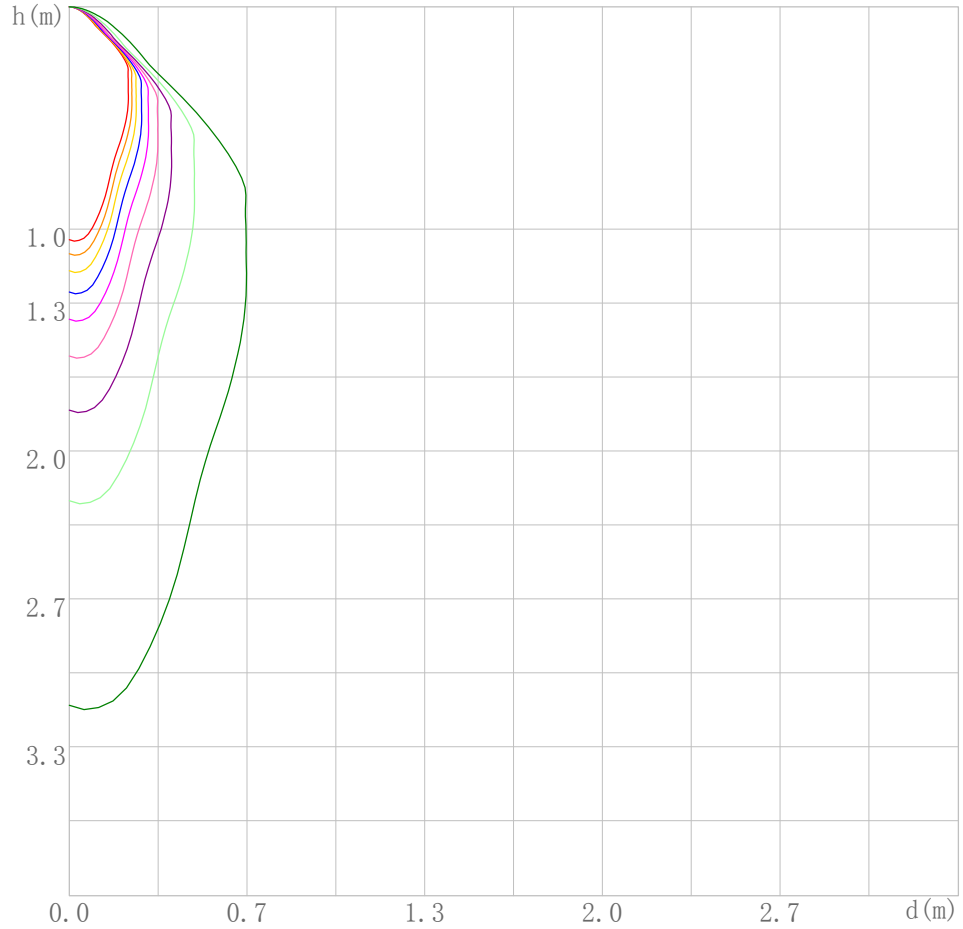

Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

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# Space ISO Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-806024-3000K RA90 28D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

## Space ISO Illuminance Curve

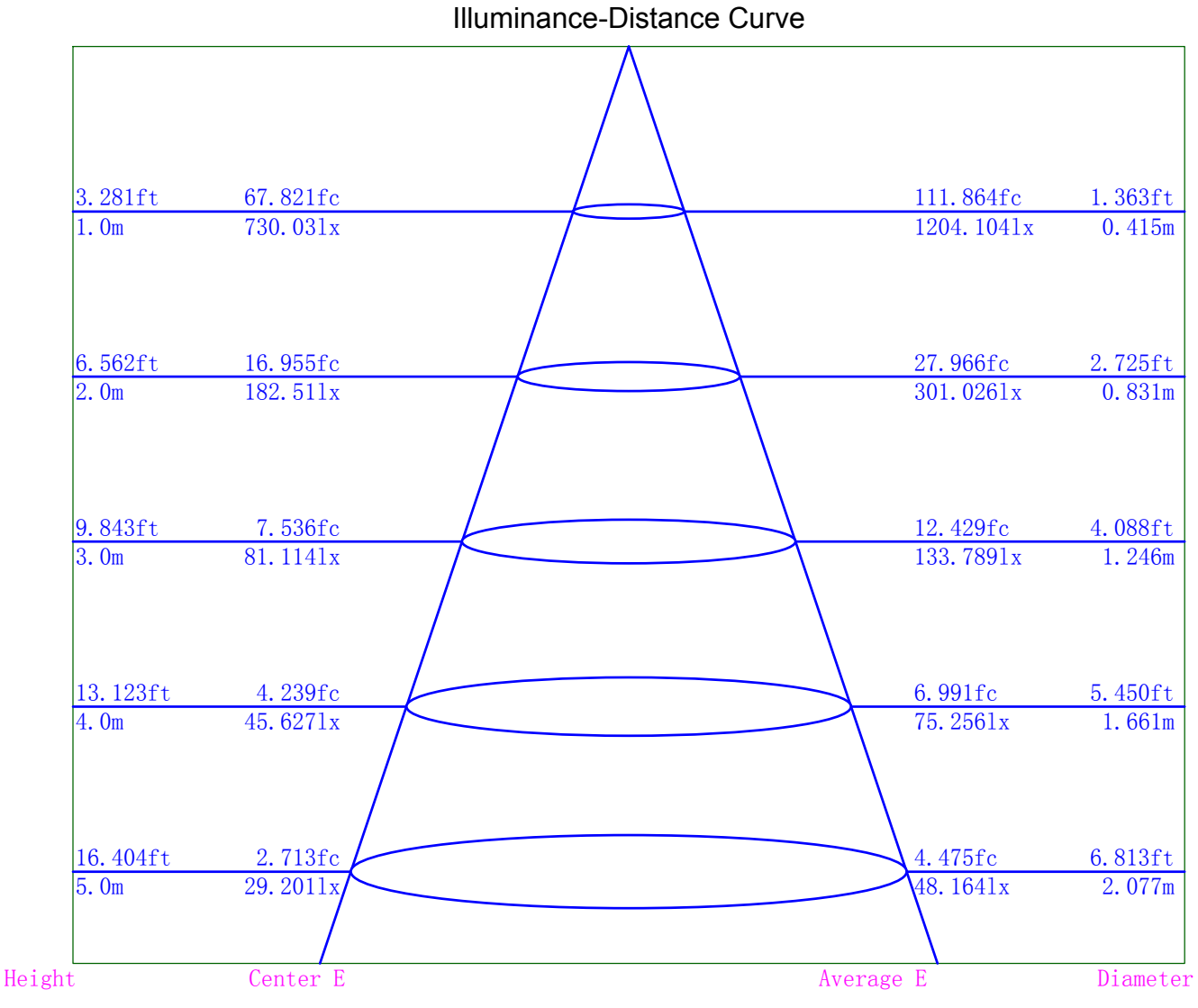



Space Plane Maximum Illuminance and @Angle:739.06lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:739.395cd,0eg

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# Illuminance-Distance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-806024-3000K RA90 28D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |



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# Indoor Luminance Limiting Curves

| | | |
|---|---|---|
| Lum.Name: HCP-806024-3000K RA90 28D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

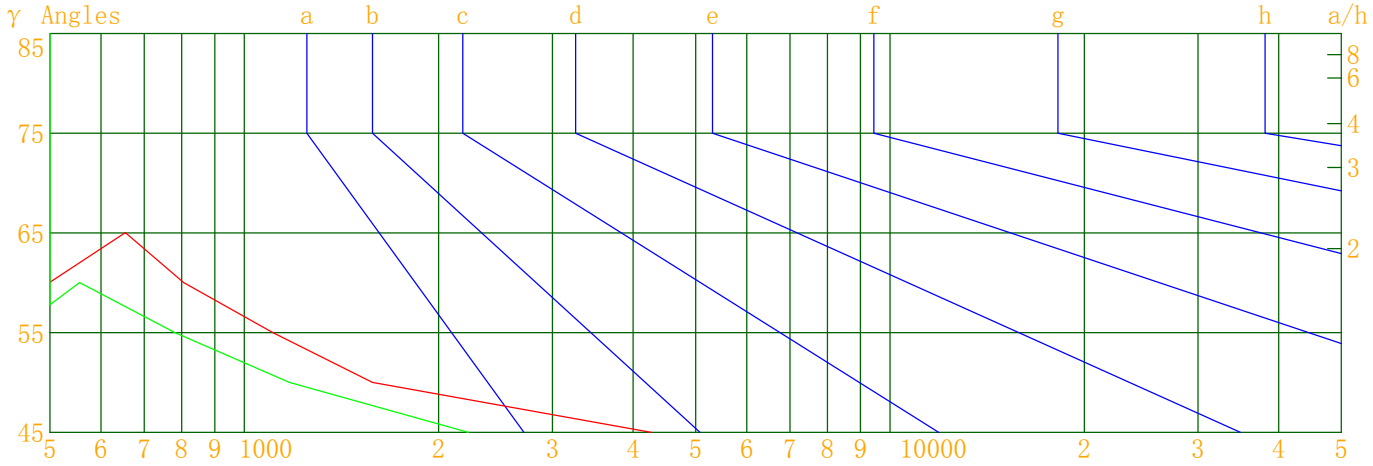
Glare Grade Table

| GI | Quality | Using Illuminace | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 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 | 4268 | 1580 | 1106 | 806 | 654 | 499 | 411 | 349 | 263 |
| C90 | 2224 | 1174 | 780 | 556 | 439 | 278 | 185 | 54 | 0 |

Luminance Limiting Curve

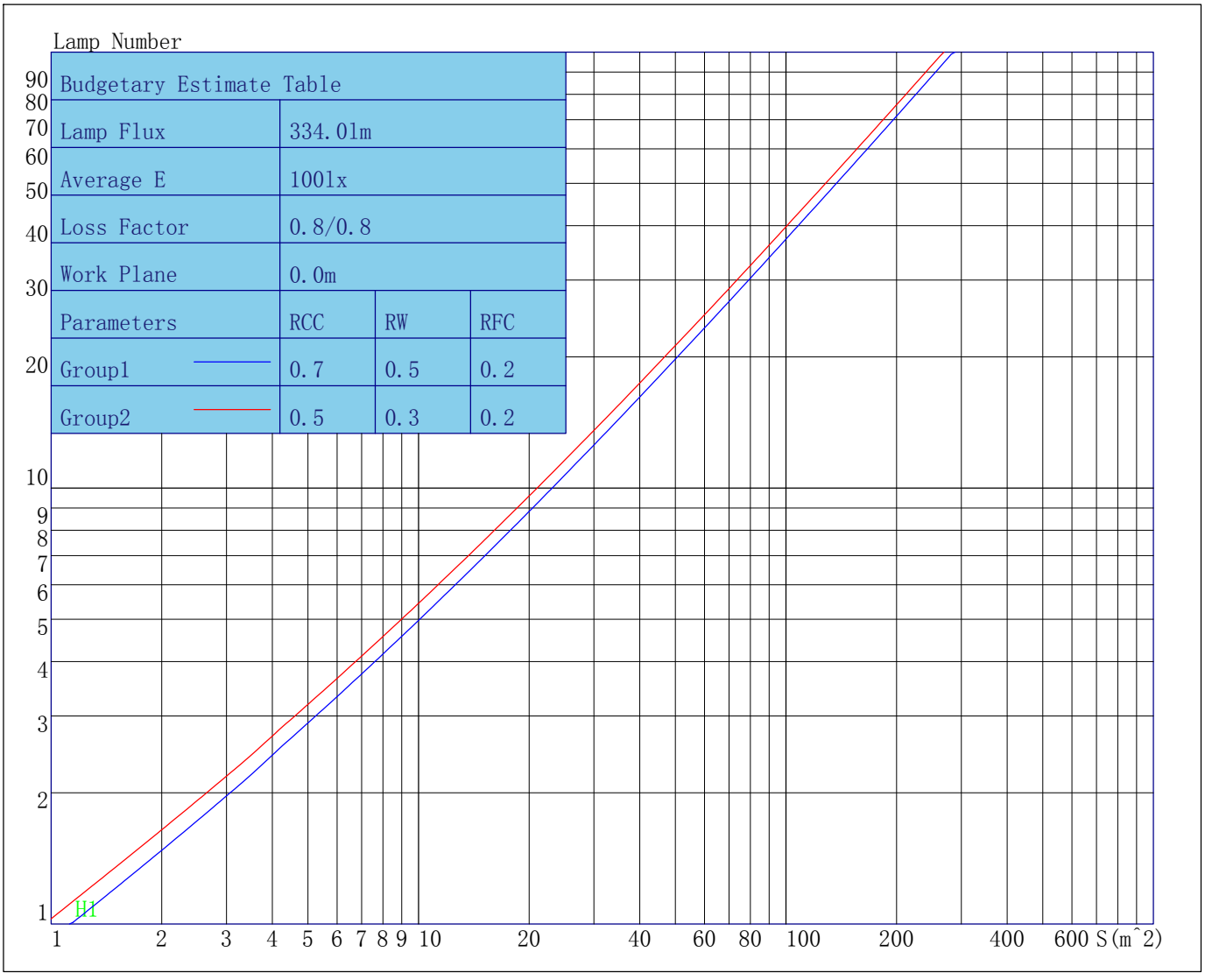



Luminous Size: Length(m)=0.000 Width(m)=-0.050 Height(m)=0.062 Area(m^2)=0.015708
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

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# Indoor Budgetary Estimate Table

| | | |
|---|---|---|
| Lum.Name: HCP-806024-3000K RA90 28D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |




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

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# Indoor Coefficient of Utilization Table

| | | |
|---|---|---|
| Lum.Name: HCP-806024-3000K RA90 28D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

| 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 86 |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 86 | 91 | 87 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 |
| 4 | 97 | 89 | 83 | 79 | 95 | 88 | 83 | 79 | 86 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 74 |
| 5 | 92 | 83 | 78 | 73 | 90 | 82 | 77 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 74 | 71 | 69 |
| 6 | 87 | 78 | 72 | 68 | 86 | 78 | 72 | 68 | 76 | 71 | 67 | 75 | 70 | 67 | 73 | 69 | 66 | 65 |
| 7 | 83 | 74 | 68 | 63 | 82 | 73 | 67 | 63 | 72 | 67 | 63 | 71 | 66 | 63 | 69 | 65 | 62 | 61 |
| 8 | 79 | 70 | 64 | 59 | 78 | 69 | 63 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 57 |
| 9 | 75 | 66 | 60 | 56 | 74 | 65 | 60 | 56 | 64 | 59 | 56 | 64 | 59 | 55 | 63 | 58 | 55 | 54 |
| 10 | 72 | 62 | 57 | 53 | 71 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 52 | 60 | 55 | 52 | 51 |

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# Unified Glare Rating Table

| | | |
|---|---|---|
| Lum.Name: HCP-806024-3000K RA90 28D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

## 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 | 13.4 | 14.4 | 13.7 | 14.7 | 15.1 | 12.1 | 13.1 | 12.4 | 13.4 | 13.8 |
| | Y=3H | 13.3 | 14.2 | 13.7 | 14.6 | 14.9 | 11.9 | 12.9 | 12.3 | 13.2 | 13.6 |
| | Y=4H | 13.2 | 14.1 | 13.6 | 14.5 | 14.9 | 11.8 | 12.7 | 12.3 | 13.1 | 13.5 |
| | Y=6H | 13.1 | 14.0 | 13.6 | 14.3 | 14.7 | 11.7 | 12.6 | 12.2 | 12.9 | 13.3 |
| | Y=8H | 13.1 | 13.9 | 13.5 | 14.3 | 14.7 | 11.7 | 12.5 | 12.1 | 12.9 | 13.3 |
| | Y=12H | 13.1 | 13.8 | 13.5 | 14.2 | 14.6 | 11.6 | 12.4 | 12.1 | 12.8 | 13.2 |
| X=4H | Y=2H | 13.1 | 14.0 | 13.5 | 14.4 | 14.8 | 11.8 | 12.7 | 12.2 | 13.1 | 13.5 |
| | Y=3H | 13.1 | 13.8 | 13.5 | 14.2 | 14.6 | 11.7 | 12.5 | 12.1 | 12.9 | 13.3 |
| | Y=4H | 13.0 | 13.7 | 13.5 | 14.1 | 14.6 | 11.6 | 12.3 | 12.1 | 12.7 | 13.2 |
| | Y=6H | 13.0 | 13.5 | 13.4 | 14.0 | 14.5 | 11.5 | 12.1 | 12.0 | 12.6 | 13.0 |
| | Y=8H | 12.9 | 13.5 | 13.4 | 13.9 | 14.4 | 11.5 | 12.0 | 11.9 | 12.4 | 12.9 |
| | Y=12H | 12.9 | 13.3 | 13.4 | 13.8 | 14.3 | 11.4 | 11.9 | 11.9 | 12.4 | 12.8 |
| X=8H | Y=4H | 12.9 | 13.4 | 13.4 | 13.9 | 14.3 | 11.5 | 12.0 | 12.0 | 12.5 | 12.9 |
| | Y=6H | 12.8 | 13.3 | 13.3 | 13.8 | 14.3 | 11.4 | 11.8 | 11.9 | 12.3 | 12.8 |
| | Y=8H | 12.8 | 13.2 | 13.3 | 13.7 | 14.2 | 11.3 | 11.7 | 11.8 | 12.2 | 12.7 |
| | Y=12H | 12.8 | 13.1 | 13.3 | 13.6 | 14.2 | 11.2 | 11.6 | 11.8 | 12.1 | 12.7 |
| X=12H | Y=4H | 12.8 | 13.3 | 13.3 | 13.8 | 14.3 | 11.4 | 11.9 | 11.9 | 12.4 | 12.9 |
| | Y=6H | 12.8 | 13.2 | 13.3 | 13.6 | 14.2 | 11.3 | 11.7 | 11.8 | 12.2 | 12.7 |
| | Y=8H | 12.7 | 13.1 | 13.3 | 13.6 | 14.2 | 11.2 | 11.6 | 11.8 | 12.1 | 12.7 |

| Variations with the objerver position at spacings | | |
|---|---|---|
| S=1.0H | 0.6/-0.6 | 1.5/-2.1 |
| S=1.5H | 1.0/-1.2 | 2.1/-3.0 |
| S=2.0H | 1.9/-1.9 | 3.1/-4.1 |

| Reduced UGR Table: | | |
|---|---|---|
| Nordic Standard Table: | BK0 | BK0 |
| Correction Value | 0.2 | 0.1 |

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

# Candela Tabulation

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---|---|---|---|---|
| γ 0.0 | 730.03 | 730.03 | 730.03 | 730.03 |
| γ 1.0 | 739.40 | 710.34 | 717.18 | 720.06 |
| γ 2.0 | 736.20 | 687.69 | 687.45 | 710.38 |
| γ 3.0 | 724.09 | 656.27 | 650.79 | 690.91 |
| γ 4.0 | 699.53 | 617.00 | 608.80 | 662.38 |
| γ 5.0 | 663.26 | 572.89 | 565.83 | 627.67 |
| γ 6.0 | 623.15 | 528.59 | 522.83 | 586.97 |
| γ 7.0 | 582.37 | 487.67 | 481.84 | 545.12 |
| γ 8.0 | 541.31 | 451.07 | 446.30 | 504.70 |
| γ 9.0 | 500.53 | 417.38 | 415.47 | 468.54 |
| γ 10.0 | 459.47 | 387.13 | 387.69 | 435.80 |
| γ 11.0 | 421.99 | 359.58 | 364.10 | 407.07 |
| γ 12.0 | 388.97 | 335.66 | 339.88 | 380.63 |
| γ 13.0 | 361.39 | 314.99 | 319.76 | 356.36 |
| γ 14.0 | 338.73 | 297.66 | 302.11 | 334.75 |
| γ 15.0 | 319.35 | 281.14 | 286.58 | 315.18 |
| γ 16.0 | 302.86 | 266.79 | 273.48 | 297.35 |
| γ 17.0 | 288.56 | 253.65 | 260.06 | 281.84 |
| γ 18.0 | 274.69 | 241.00 | 247.58 | 267.22 |
| γ 19.0 | 262.12 | 229.57 | 235.07 | 252.64 |
| γ 20.0 | 249.50 | 218.14 | 223.38 | 239.30 |
| γ 21.0 | 237.50 | 207.49 | 212.14 | 227.58 |
| γ 22.0 | 226.55 | 197.93 | 201.68 | 215.37 |
| γ 23.0 | 216.20 | 189.25 | 191.43 | 204.31 |
| γ 24.0 | 205.56 | 180.22 | 181.43 | 193.80 |
| γ 25.0 | 195.87 | 171.87 | 171.70 | 184.76 |
| γ 26.0 | 185.91 | 163.77 | 162.68 | 175.73 |
| γ 27.0 | 176.66 | 155.30 | 154.09 | 167.16 |
| γ 28.0 | 167.34 | 147.42 | 145.79 | 158.56 |
| γ 29.0 | 158.58 | 139.97 | 138.70 | 150.31 |
| γ 30.0 | 150.16 | 133.96 | 132.77 | 142.68 |
| γ 31.0 | 142.71 | 128.17 | 126.80 | 135.89 |
| γ 32.0 | 136.55 | 123.22 | 121.31 | 130.69 |
| γ 33.0 | 130.53 | 118.55 | 116.20 | 125.42 |
| γ 34.0 | 124.90 | 114.33 | 111.88 | 121.13 |
| γ 35.0 | 119.62 | 110.68 | 108.02 | 117.05 |
| γ 36.0 | 115.19 | 107.11 | 104.76 | 114.01 |
| γ 37.0 | 111.70 | 102.62 | 100.19 | 111.12 |
| γ 38.0 | 108.50 | 96.28 | 93.15 | 108.14 |
| γ 39.0 | 104.32 | 87.98 | 84.28 | 104.35 |
| γ 40.0 | 97.63 | 77.52 | 74.61 | 98.23 |
| γ 41.0 | 88.80 | 65.76 | 64.45 | 89.51 |
| γ 42.0 | 78.93 | 53.96 | 54.19 | 78.88 |
| γ 43.0 | 68.61 | 42.46 | 43.88 | 66.94 |
| γ 44.0 | 57.92 | 32.64 | 34.02 | 54.75 |
| γ 45.0 | 47.41 | 24.70 | 25.06 | 42.75 |
| γ 46.0 | 37.18 | 19.41 | 18.29 | 32.05 |

## Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---|---|---|---|---|
| γ 47.0 | 28.22 | 16.32 | 14.25 | 23.92 |
| γ 48.0 | 21.65 | 14.54 | 12.23 | 18.86 |
| γ 49.0 | 17.94 | 13.14 | 10.91 | 16.04 |
| γ 50.0 | 15.95 | 11.86 | 9.79 | 14.30 |
| γ 51.0 | 14.51 | 10.64 | 8.79 | 12.91 |
| γ 52.0 | 13.22 | 9.46 | 7.91 | 11.65 |
| γ 53.0 | 11.99 | 8.50 | 7.16 | 10.50 |
| γ 54.0 | 10.91 | 7.70 | 6.52 | 9.46 |
| γ 55.0 | 9.97 | 7.03 | 5.93 | 8.66 |
| γ 56.0 | 9.11 | 6.23 | 5.39 | 7.94 |
| γ 57.0 | 8.35 | 5.68 | 4.93 | 7.24 |
| γ 58.0 | 7.66 | 5.19 | 4.50 | 6.62 |
| γ 59.0 | 6.93 | 4.74 | 4.08 | 6.11 |
| γ 60.0 | 6.33 | 4.36 | 3.74 | 5.64 |
| γ 61.0 | 5.80 | 4.06 | 3.47 | 5.19 |
| γ 62.0 | 5.36 | 3.73 | 3.18 | 4.87 |
| γ 63.0 | 5.02 | 3.48 | 2.94 | 4.55 |
| γ 64.0 | 4.67 | 3.19 | 2.68 | 4.24 |
| γ 65.0 | 4.34 | 2.91 | 2.44 | 3.96 |
| γ 66.0 | 3.99 | 2.57 | 2.18 | 3.64 |
| γ 67.0 | 3.68 | 2.27 | 1.94 | 3.38 |
| γ 68.0 | 3.35 | 1.95 | 1.67 | 3.04 |
| γ 69.0 | 3.02 | 1.69 | 1.47 | 2.78 |
| γ 70.0 | 2.68 | 1.49 | 1.33 | 2.45 |
| γ 71.0 | 2.39 | 1.34 | 1.20 | 2.25 |
| γ 72.0 | 2.20 | 1.18 | 1.08 | 2.09 |
| γ 73.0 | 2.00 | 1.03 | 0.97 | 1.93 |
| γ 74.0 | 1.84 | 0.88 | 0.86 | 1.79 |
| γ 75.0 | 1.67 | 0.75 | 0.74 | 1.64 |
| γ 76.0 | 1.51 | 0.61 | 0.63 | 1.51 |
| γ 77.0 | 1.37 | 0.50 | 0.52 | 1.38 |
| γ 78.0 | 1.22 | 0.38 | 0.41 | 1.25 |
| γ 79.0 | 1.09 | 0.26 | 0.30 | 1.12 |
| γ 80.0 | 0.95 | 0.15 | 0.18 | 0.99 |
| γ 81.0 | 0.81 | 0.04 | 0.08 | 0.87 |
| γ 82.0 | 0.69 | 0.00 | 0.00 | 0.75 |
| γ 83.0 | 0.57 | 0.00 | 0.00 | 0.62 |
| γ 84.0 | 0.46 | 0.00 | 0.00 | 0.50 |
| γ 85.0 | 0.36 | 0.00 | 0.00 | 0.38 |
| γ 86.0 | 0.26 | 0.00 | 0.00 | 0.26 |
| γ 87.0 | 0.14 | 0.00 | 0.00 | 0.16 |
| γ 88.0 | 0.01 | 0.00 | 0.00 | 0.05 |
| γ 89.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 90.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 91.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 92.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 93.0 | 0.00 | 0.00 | 0.00 | 0.00 |

## Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---|---|---|---|---|
| γ 94.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 95.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 96.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 97.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 98.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 99.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 100.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 101.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 102.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 103.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 104.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 105.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 106.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 107.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 108.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 109.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 110.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 111.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 112.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 113.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 114.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 115.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 116.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 117.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 118.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 119.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 120.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 121.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 122.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 123.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 124.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 125.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 126.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 127.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 128.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 129.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 130.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 131.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 132.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 133.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 134.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 135.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 136.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 137.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 138.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 139.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 140.0 | 0.00 | 0.00 | 0.00 | 0.00 |

# Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---|---|---|---|---|
| γ 141.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 142.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 143.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 144.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 145.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 146.0 | 0.00 | 0.00 | 0.01 | 0.00 |
| γ 147.0 | 0.00 | 0.00 | 0.05 | 0.05 |
| γ 148.0 | 0.00 | 0.00 | 0.09 | 0.07 |
| γ 149.0 | 0.03 | 0.00 | 0.12 | 0.12 |
| γ 150.0 | 0.06 | 0.01 | 0.15 | 0.15 |
| γ 151.0 | 0.09 | 0.05 | 0.18 | 0.18 |
| γ 152.0 | 0.14 | 0.08 | 0.22 | 0.20 |
| γ 153.0 | 0.18 | 0.10 | 0.25 | 0.23 |
| γ 154.0 | 0.20 | 0.15 | 0.28 | 0.27 |
| γ 155.0 | 0.24 | 0.17 | 0.30 | 0.28 |
| γ 156.0 | 0.28 | 0.21 | 0.33 | 0.32 |
| γ 157.0 | 0.30 | 0.24 | 0.37 | 0.34 |
| γ 158.0 | 0.34 | 0.26 | 0.40 | 0.37 |
| γ 159.0 | 0.36 | 0.29 | 0.42 | 0.39 |
| γ 160.0 | 0.39 | 0.32 | 0.45 | 0.41 |
| γ 161.0 | 0.42 | 0.35 | 0.47 | 0.44 |
| γ 162.0 | 0.45 | 0.38 | 0.50 | 0.46 |
| γ 163.0 | 0.48 | 0.41 | 0.52 | 0.48 |
| γ 164.0 | 0.49 | 0.42 | 0.55 | 0.50 |
| γ 165.0 | 0.53 | 0.45 | 0.56 | 0.52 |
| γ 166.0 | 0.54 | 0.47 | 0.59 | 0.53 |
| γ 167.0 | 0.57 | 0.50 | 0.60 | 0.56 |
| γ 168.0 | 0.59 | 0.53 | 0.62 | 0.57 |
| γ 169.0 | 0.62 | 0.54 | 0.63 | 0.59 |
| γ 170.0 | 0.64 | 0.57 | 0.66 | 0.61 |
| γ 171.0 | 0.66 | 0.58 | 0.67 | 0.63 |
| γ 172.0 | 0.68 | 0.60 | 0.69 | 0.64 |
| γ 173.0 | 0.69 | 0.61 | 0.69 | 0.66 |
| γ 174.0 | 0.71 | 0.62 | 0.70 | 0.66 |
| γ 175.0 | 0.71 | 0.63 | 0.72 | 0.67 |
| γ 176.0 | 0.73 | 0.64 | 0.72 | 0.68 |
| γ 177.0 | 0.72 | 0.64 | 0.71 | 0.69 |
| γ 178.0 | 0.75 | 0.64 | 0.72 | 0.70 |
| γ 179.0 | 0.74 | 0.65 | 0.72 | 0.70 |
| γ 180.0 | 0.72 | 0.72 | 0.72 | 0.72 |