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# Indoor Luminaire Photometric Data

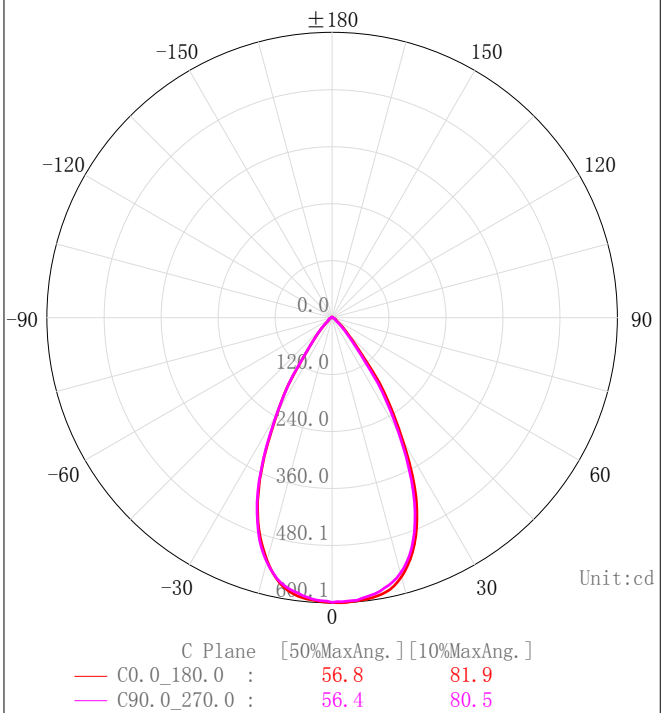
## Description Information

| | | | |
|---|---|---|---|
| Luminary Name: HCP-1022102+HCP-1032102 2700K 60D | | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | | Lamp Catelog: LED | Test Date: 2020/12/02 |
| Manufacture: Havit Commercial | | Shld.Ang(° ): | Test Machine:GON-2000 |
| Test Lab: Quality Department | | Frequency(Hz): | Lamp CCT(K): Ra: |
| Lum.Size(W*L*H):0.000m*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.(℃): 25 | Humidity(%): 50.0 |

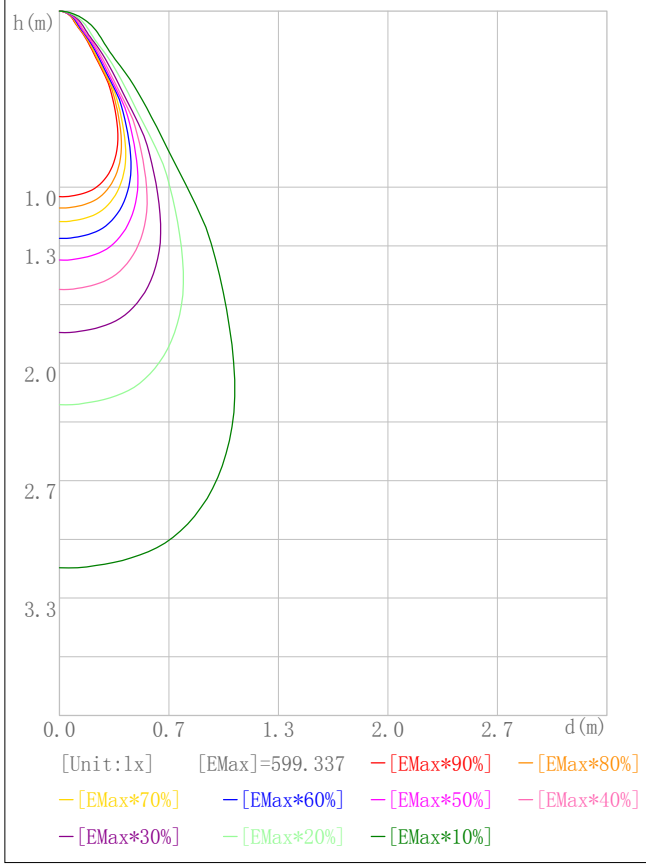
## Character Parameter

| Lamp Speciality Parameter | Luminaire Speciality Parameter | |
|---|---|---|
| Rated Flux(lm): 518.700 | Luminary Flux(lm): 518.700 | Field Angle(10%Imax): 81.9(° ) |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 518.235lm 99.91% |
| Rated Voltage(V): | Luminary EER(lm/W): 54.059 | Up Lumens&Percent: 0.465lm 0.09% |
| Tested Power(W): 9.595 | Max.Candela(cd): 600.064 | S/MH: C0_a180=0.909 C90_270=0.903 |
| Lamps' Inside: 1 | Max Cand@Ang.(° ): C=0.0 γ=2.0 | CIE Type: Semi-Direct |
| Tested Electrics(V,A,pf):240.1,0.043,0.912 | Beam Angle(50%Imax): 56.8(° ) | ErP Φuse(90° ): 487.570lm |
| Lamp Size(W*L*H):0.000m*0.000m*0.000m | Left=-26.9° ,Right=29.8° | IRF(%): 238.137 |

## C Plane Distribution Diagram



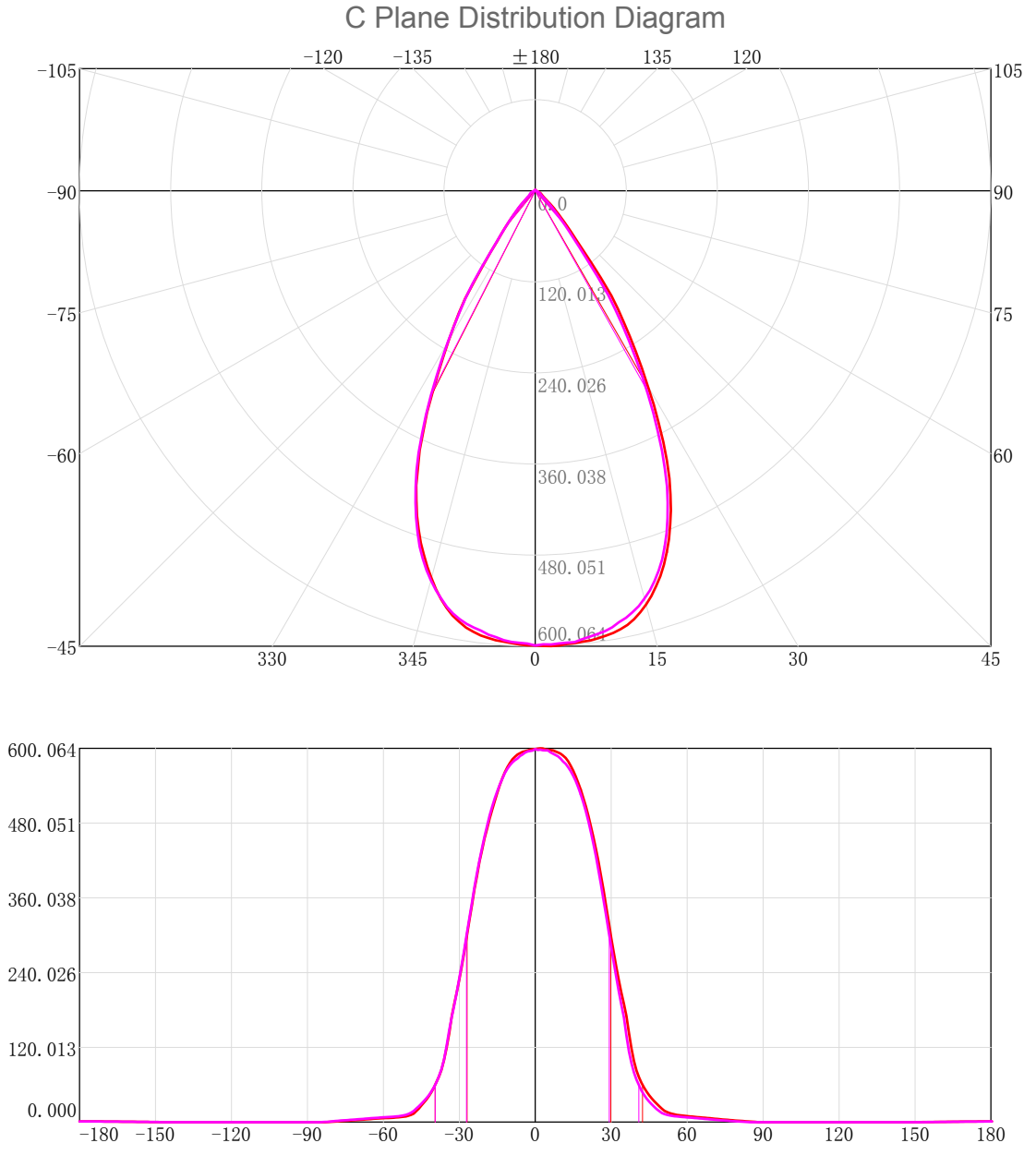

## C0 Space ISO Illuminance Curve



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# 2D Plane Light Intensity Distribution Curve

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 60D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/02 |



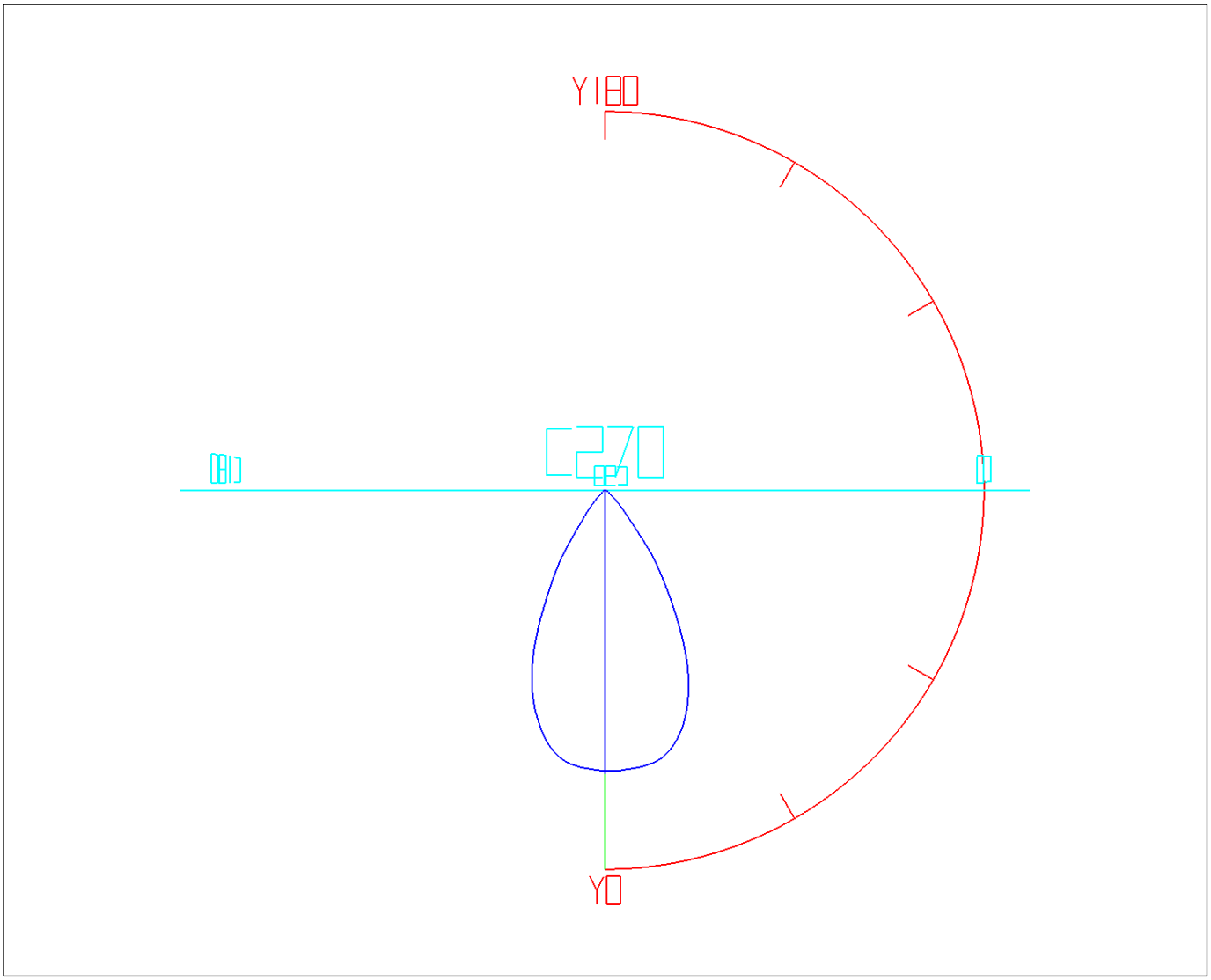

| C Plane | [50%MaxAng.] | [10%MaxAng.] | Unit:cd |
|---|---|---|---|
| C0.0_180.0 : | 56.8 | 81.9 | |
| C90.0_270.0 : | 56.4 | 80.5 | |

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# 3D Light Intensity Distribution Modal

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 60D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/02 |

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 | 0.57 | 0.57 | 0.11 | 0.11 | 47.0-48.0 | 1.82 | 496.38 | 0.35 | 95.70 |
| 1.0-2.0 | 1.72 | 2.29 | 0.33 | 0.44 | 48.0-49.0 | 1.57 | 497.95 | 0.30 | 96.00 |
| 2.0-3.0 | 2.86 | 5.15 | 0.55 | 0.99 | 49.0-50.0 | 1.36 | 499.32 | 0.26 | 96.26 |
| 3.0-4.0 | 3.99 | 9.14 | 0.77 | 1.76 | 50.0-51.0 | 1.19 | 500.51 | 0.23 | 96.49 |
| 4.0-5.0 | 5.12 | 14.26 | 0.99 | 2.75 | 51.0-52.0 | 1.08 | 501.59 | 0.21 | 96.70 |
| 5.0-6.0 | 6.24 | 20.50 | 1.20 | 3.95 | 52.0-53.0 | 1.00 | 502.58 | 0.19 | 96.89 |
| 6.0-7.0 | 7.34 | 27.85 | 1.42 | 5.37 | 53.0-54.0 | 0.94 | 503.52 | 0.18 | 97.07 |
| 7.0-8.0 | 8.43 | 36.28 | 1.63 | 6.99 | 54.0-55.0 | 0.89 | 504.42 | 0.17 | 97.25 |
| 8.0-9.0 | 9.51 | 45.79 | 1.83 | 8.83 | 55.0-56.0 | 0.86 | 505.27 | 0.16 | 97.41 |
| 9.0-10.0 | 10.56 | 56.35 | 2.03 | 10.86 | 56.0-57.0 | 0.83 | 506.10 | 0.16 | 97.57 |
| 10.0-11.0 | 11.56 | 67.91 | 2.23 | 13.09 | 57.0-58.0 | 0.80 | 506.90 | 0.15 | 97.73 |
| 11.0-12.0 | 12.53 | 80.44 | 2.42 | 15.51 | 58.0-59.0 | 0.78 | 507.68 | 0.15 | 97.88 |
| 12.0-13.0 | 13.45 | 93.89 | 2.59 | 18.10 | 59.0-60.0 | 0.76 | 508.44 | 0.15 | 98.02 |
| 13.0-14.0 | 14.30 | 108.19 | 2.76 | 20.86 | 60.0-61.0 | 0.74 | 509.18 | 0.14 | 98.16 |
| 14.0-15.0 | 15.09 | 123.29 | 2.91 | 23.77 | 61.0-62.0 | 0.71 | 509.89 | 0.14 | 98.30 |
| 15.0-16.0 | 15.81 | 139.10 | 3.05 | 26.82 | 62.0-63.0 | 0.69 | 510.58 | 0.13 | 98.44 |
| 16.0-17.0 | 16.46 | 155.56 | 3.17 | 29.99 | 63.0-64.0 | 0.67 | 511.25 | 0.13 | 98.56 |
| 17.0-18.0 | 17.02 | 172.58 | 3.28 | 33.27 | 64.0-65.0 | 0.64 | 511.89 | 0.12 | 98.69 |
| 18.0-19.0 | 17.49 | 190.08 | 3.37 | 36.64 | 65.0-66.0 | 0.61 | 512.50 | 0.12 | 98.81 |
| 19.0-20.0 | 17.85 | 207.93 | 3.44 | 40.09 | 66.0-67.0 | 0.58 | 513.09 | 0.11 | 98.92 |
| 20.0-21.0 | 18.10 | 226.02 | 3.49 | 43.57 | 67.0-68.0 | 0.55 | 513.64 | 0.11 | 99.02 |
| 21.0-22.0 | 18.23 | 244.25 | 3.51 | 47.09 | 68.0-69.0 | 0.52 | 514.16 | 0.10 | 99.12 |
| 22.0-23.0 | 18.24 | 262.49 | 3.52 | 50.61 | 69.0-70.0 | 0.49 | 514.65 | 0.09 | 99.22 |
| 23.0-24.0 | 18.12 | 280.61 | 3.49 | 54.10 | 70.0-71.0 | 0.45 | 515.10 | 0.09 | 99.31 |
| 24.0-25.0 | 17.84 | 298.45 | 3.44 | 57.54 | 71.0-72.0 | 0.42 | 515.52 | 0.08 | 99.39 |
| 25.0-26.0 | 17.42 | 315.88 | 3.36 | 60.90 | 72.0-73.0 | 0.39 | 515.91 | 0.08 | 99.46 |
| 26.0-27.0 | 16.86 | 332.74 | 3.25 | 64.15 | 73.0-74.0 | 0.36 | 516.27 | 0.07 | 99.53 |
| 27.0-28.0 | 16.17 | 348.91 | 3.12 | 67.27 | 74.0-75.0 | 0.33 | 516.60 | 0.06 | 99.60 |
| 28.0-29.0 | 15.43 | 364.34 | 2.97 | 70.24 | 75.0-76.0 | 0.30 | 516.90 | 0.06 | 99.65 |
| 29.0-30.0 | 14.63 | 378.97 | 2.82 | 73.06 | 76.0-77.0 | 0.27 | 517.17 | 0.05 | 99.70 |
| 30.0-31.0 | 13.79 | 392.76 | 2.66 | 75.72 | 77.0-78.0 | 0.24 | 517.40 | 0.05 | 99.75 |
| 31.0-32.0 | 12.94 | 405.70 | 2.49 | 78.21 | 78.0-79.0 | 0.21 | 517.61 | 0.04 | 99.79 |
| 32.0-33.0 | 12.06 | 417.76 | 2.33 | 80.54 | 79.0-80.0 | 0.17 | 517.78 | 0.03 | 99.82 |
| 33.0-34.0 | 11.08 | 428.84 | 2.14 | 82.68 | 80.0-81.0 | 0.14 | 517.92 | 0.03 | 99.85 |
| 34.0-35.0 | 9.99 | 438.83 | 1.93 | 84.60 | 81.0-82.0 | 0.10 | 518.03 | 0.02 | 99.87 |
| 35.0-36.0 | 8.83 | 447.66 | 1.70 | 86.30 | 82.0-83.0 | 0.08 | 518.10 | 0.01 | 99.88 |
| 36.0-37.0 | 7.64 | 455.30 | 1.47 | 87.78 | 83.0-84.0 | 0.05 | 518.15 | 0.01 | 99.89 |
| 37.0-38.0 | 6.57 | 461.86 | 1.27 | 89.04 | 84.0-85.0 | 0.04 | 518.19 | 0.01 | 99.90 |
| 38.0-39.0 | 5.69 | 467.56 | 1.10 | 90.14 | 85.0-86.0 | 0.02 | 518.21 | 0.00 | 99.91 |
| 39.0-40.0 | 4.97 | 472.53 | 0.96 | 91.10 | 86.0-87.0 | 0.01 | 518.23 | 0.00 | 99.91 |
| 40.0-41.0 | 4.38 | 476.91 | 0.85 | 91.94 | 87.0-88.0 | 0.01 | 518.23 | 0.00 | 99.91 |
| 41.0-42.0 | 3.89 | 480.80 | 0.75 | 92.69 | 88.0-89.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 42.0-43.0 | 3.45 | 484.25 | 0.66 | 93.36 | 89.0-90.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 43.0-44.0 | 3.06 | 487.31 | 0.59 | 93.95 | 90.0-91.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 44.0-45.0 | 2.73 | 490.04 | 0.53 | 94.47 | 91.0-92.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 45.0-46.0 | 2.41 | 492.45 | 0.46 | 94.94 | 92.0-93.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 46.0-47.0 | 2.11 | 494.56 | 0.41 | 95.35 | 93.0-94.0 | 0.00 | 518.23 | 0.00 | 99.91 |

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# Zonal Flux Tabulation - (Cont.)

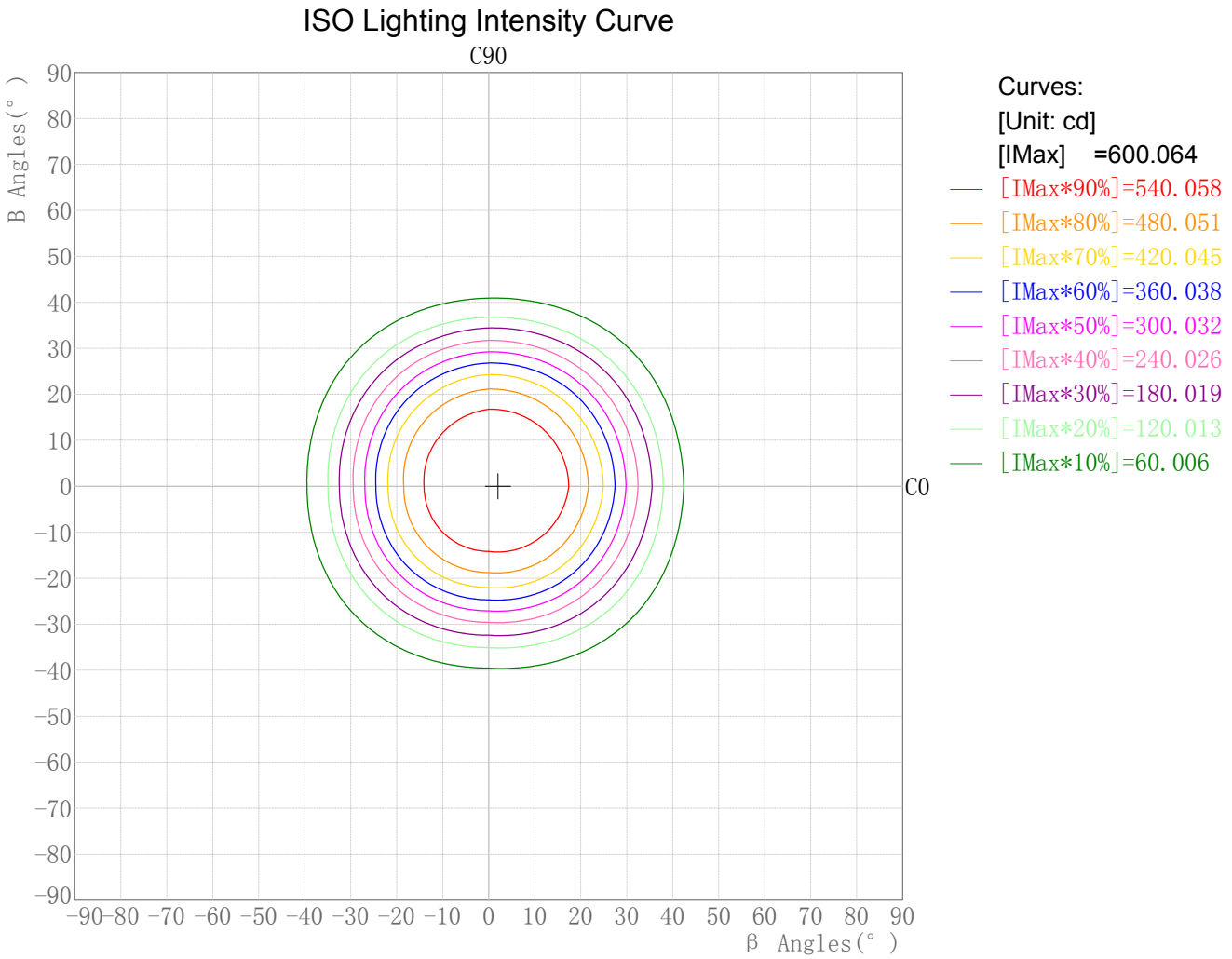
| Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|---|---|---|---|---|
| 94.0-95.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 95.0-96.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 96.0-97.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 97.0-98.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 98.0-99.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 99.0-100.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 100.0-101.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 101.0-102.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 102.0-103.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 103.0-104.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 104.0-105.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 105.0-106.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 106.0-107.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 107.0-108.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 108.0-109.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 109.0-110.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 110.0-111.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 111.0-112.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 112.0-113.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 113.0-114.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 114.0-115.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 115.0-116.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 116.0-117.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 117.0-118.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 118.0-119.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 119.0-120.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 120.0-121.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 121.0-122.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 122.0-123.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 123.0-124.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 124.0-125.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 125.0-126.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 126.0-127.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 127.0-128.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 128.0-129.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 129.0-130.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 130.0-131.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 131.0-132.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 132.0-133.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 133.0-134.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 134.0-135.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 135.0-136.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 136.0-137.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 137.0-138.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 138.0-139.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 139.0-140.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 140.0-141.0 | 0.00 | 518.23 | 0.00 | 99.91 |

| Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|---|---|---|---|---|
| 141.0-142.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 142.0-143.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 143.0-144.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 144.0-145.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 145.0-146.0 | 0.00 | 518.23 | 0.00 | 99.91 |
| 146.0-147.0 | 0.00 | 518.24 | 0.00 | 99.91 |
| 147.0-148.0 | 0.00 | 518.24 | 0.00 | 99.91 |
| 148.0-149.0 | 0.00 | 518.24 | 0.00 | 99.91 |
| 149.0-150.0 | 0.01 | 518.25 | 0.00 | 99.91 |
| 150.0-151.0 | 0.01 | 518.25 | 0.00 | 99.91 |
| 151.0-152.0 | 0.01 | 518.26 | 0.00 | 99.92 |
| 152.0-153.0 | 0.01 | 518.27 | 0.00 | 99.92 |
| 153.0-154.0 | 0.01 | 518.28 | 0.00 | 99.92 |
| 154.0-155.0 | 0.01 | 518.30 | 0.00 | 99.92 |
| 155.0-156.0 | 0.02 | 518.31 | 0.00 | 99.93 |
| 156.0-157.0 | 0.02 | 518.33 | 0.00 | 99.93 |
| 157.0-158.0 | 0.02 | 518.35 | 0.00 | 99.93 |
| 158.0-159.0 | 0.02 | 518.37 | 0.00 | 99.94 |
| 159.0-160.0 | 0.02 | 518.39 | 0.00 | 99.94 |
| 160.0-161.0 | 0.02 | 518.41 | 0.00 | 99.94 |
| 161.0-162.0 | 0.02 | 518.43 | 0.00 | 99.95 |
| 162.0-163.0 | 0.02 | 518.45 | 0.00 | 99.95 |
| 163.0-164.0 | 0.02 | 518.48 | 0.00 | 99.96 |
| 164.0-165.0 | 0.02 | 518.50 | 0.00 | 99.96 |
| 165.0-166.0 | 0.02 | 518.52 | 0.00 | 99.97 |
| 166.0-167.0 | 0.02 | 518.54 | 0.00 | 99.97 |
| 167.0-168.0 | 0.02 | 518.56 | 0.00 | 99.97 |
| 168.0-169.0 | 0.02 | 518.58 | 0.00 | 99.98 |
| 169.0-170.0 | 0.02 | 518.60 | 0.00 | 99.98 |
| 170.0-171.0 | 0.02 | 518.62 | 0.00 | 99.98 |
| 171.0-172.0 | 0.02 | 518.63 | 0.00 | 99.99 |
| 172.0-173.0 | 0.01 | 518.65 | 0.00 | 99.99 |
| 173.0-174.0 | 0.01 | 518.66 | 0.00 | 99.99 |
| 174.0-175.0 | 0.01 | 518.67 | 0.00 | 99.99 |
| 175.0-176.0 | 0.01 | 518.68 | 0.00 | 100.00 |
| 176.0-177.0 | 0.01 | 518.69 | 0.00 | 100.00 |
| 177.0-178.0 | 0.01 | 518.70 | 0.00 | 100.00 |
| 178.0-179.0 | 0.00 | 518.70 | 0.00 | 100.00 |
| 179.0-180.0 | 0.00 | 518.70 | 0.00 | 100.00 |

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# Rectangle ISO Lighting Intensity Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 60D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/02 |



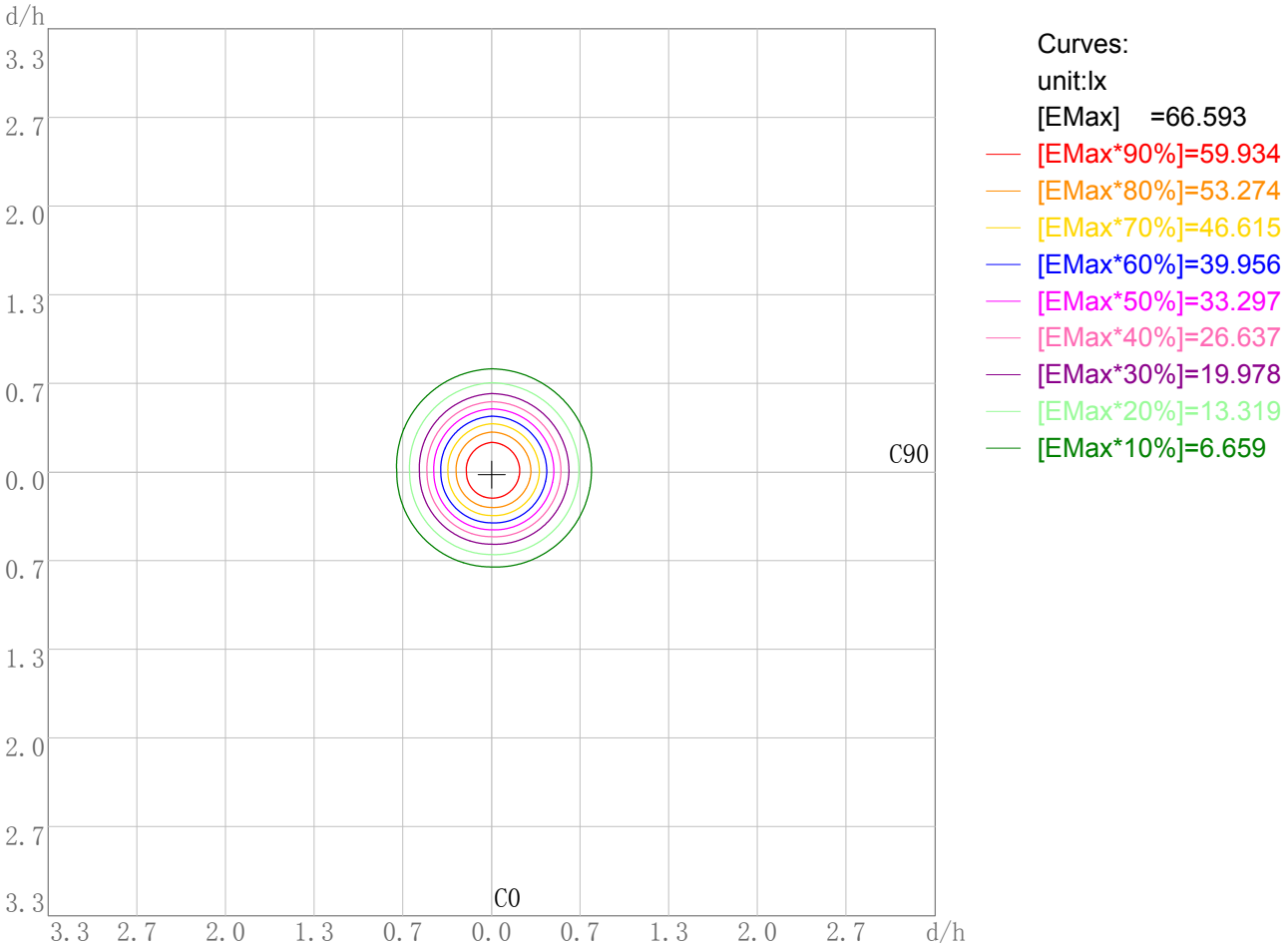

Maximum Light Intensity(cd): 600.06
Maximum Cand.@Angle: H=2.0°,V=0.0°

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# Plane ISO-Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 60D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/02 |

## Plane ISO-Illuminance Curve



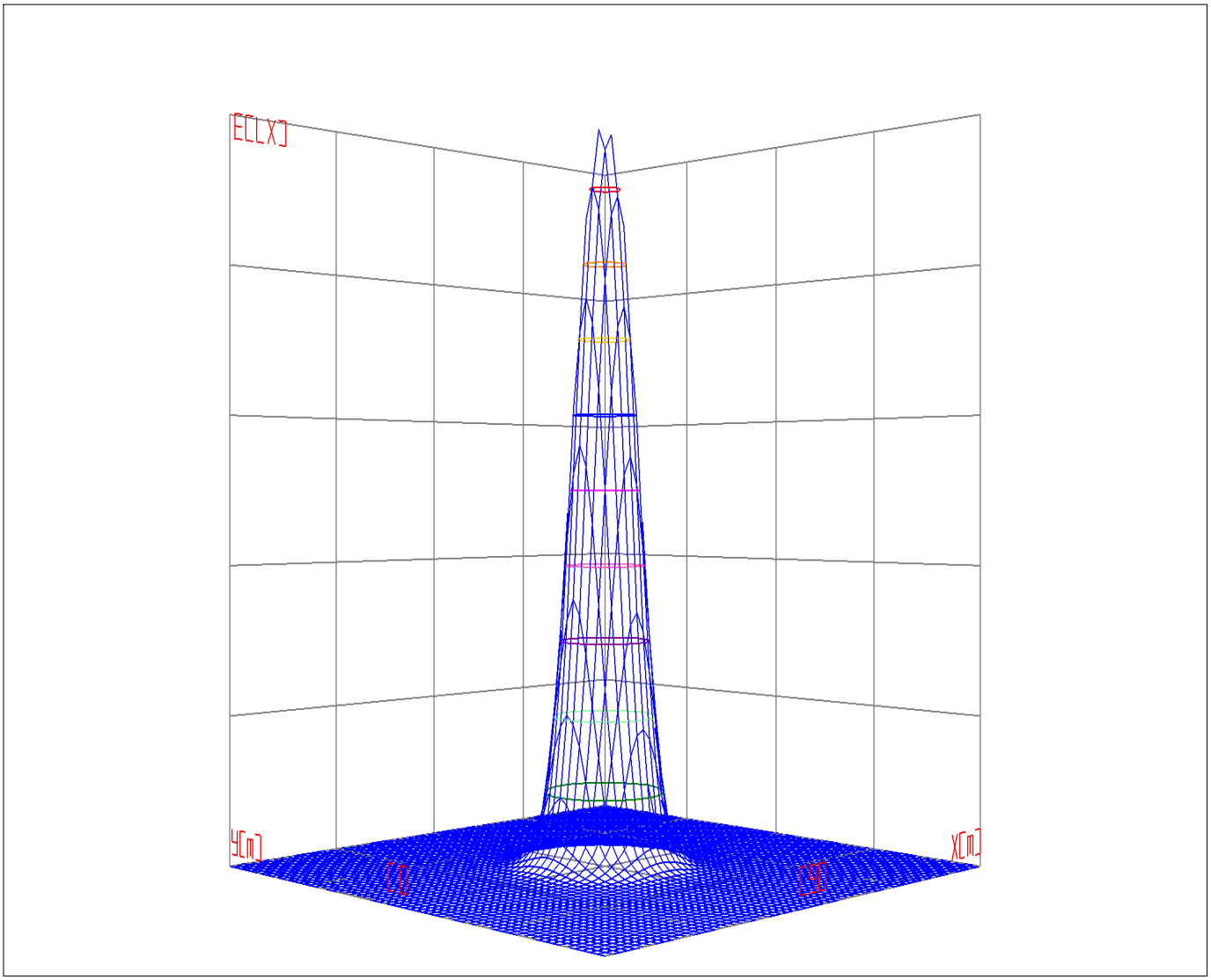

Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 66.59
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

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# 3D Plane ISO Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 60D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/02 |

## 3D Plane Illuminance Modal



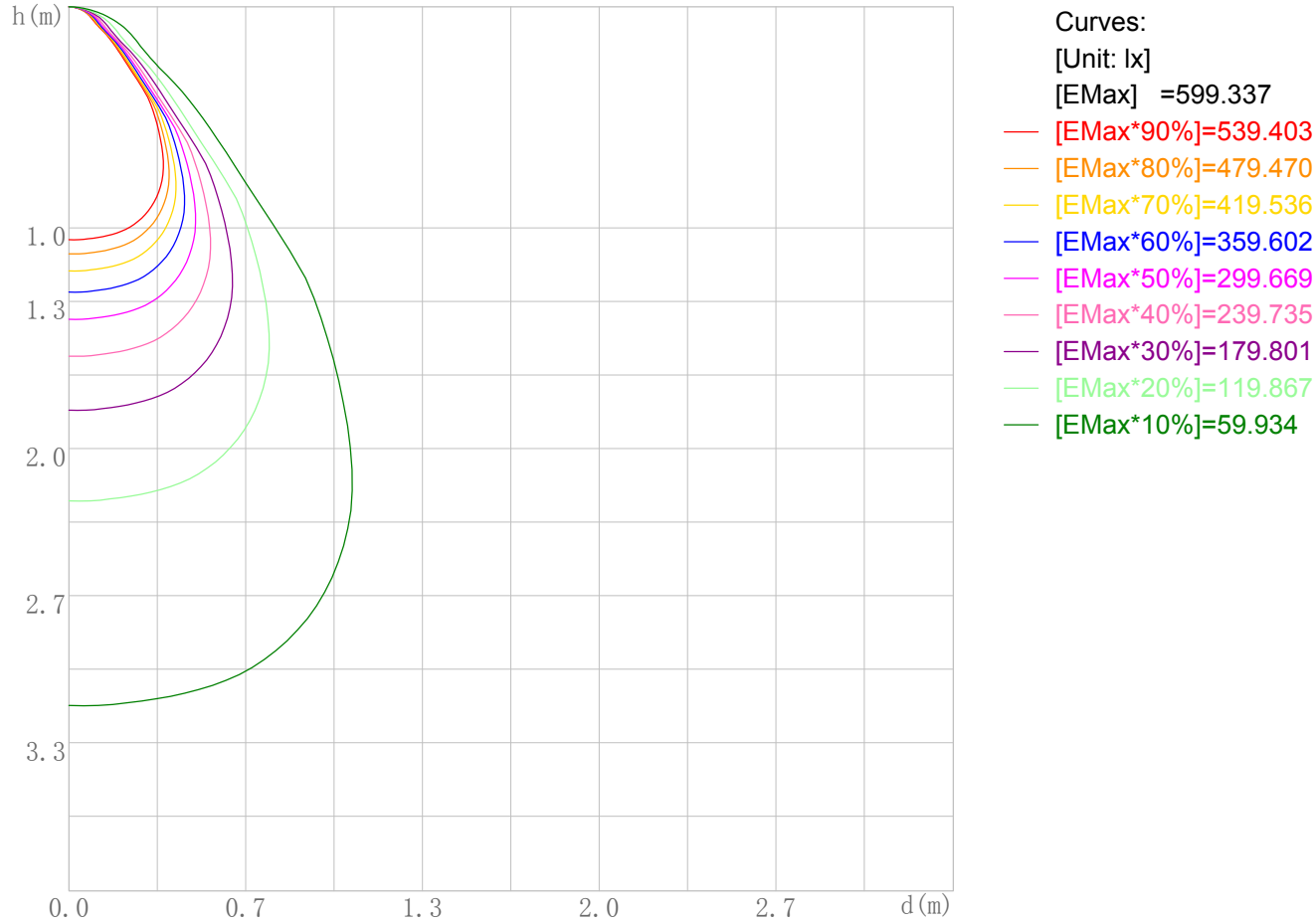

Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

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# Space ISO Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 60D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/02 |

## Space ISO Illuminance Curve

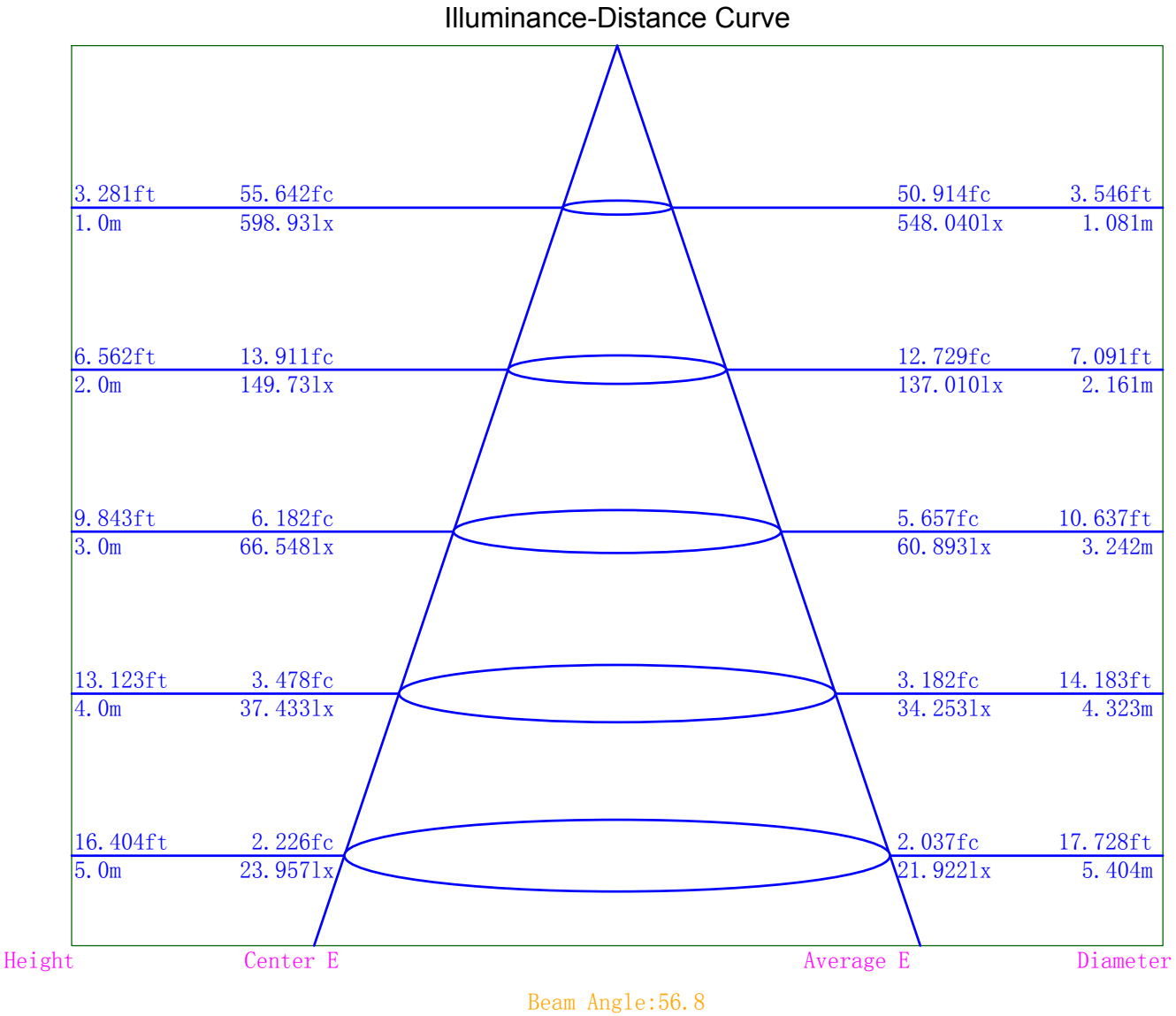



Space Plane Maximum Illuminance and @Angle:599.34lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:600.064cd,0eg

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# Illuminance-Distance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 60D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/02 |



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# Indoor Luminance Limiting Curves

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 60D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/02 |

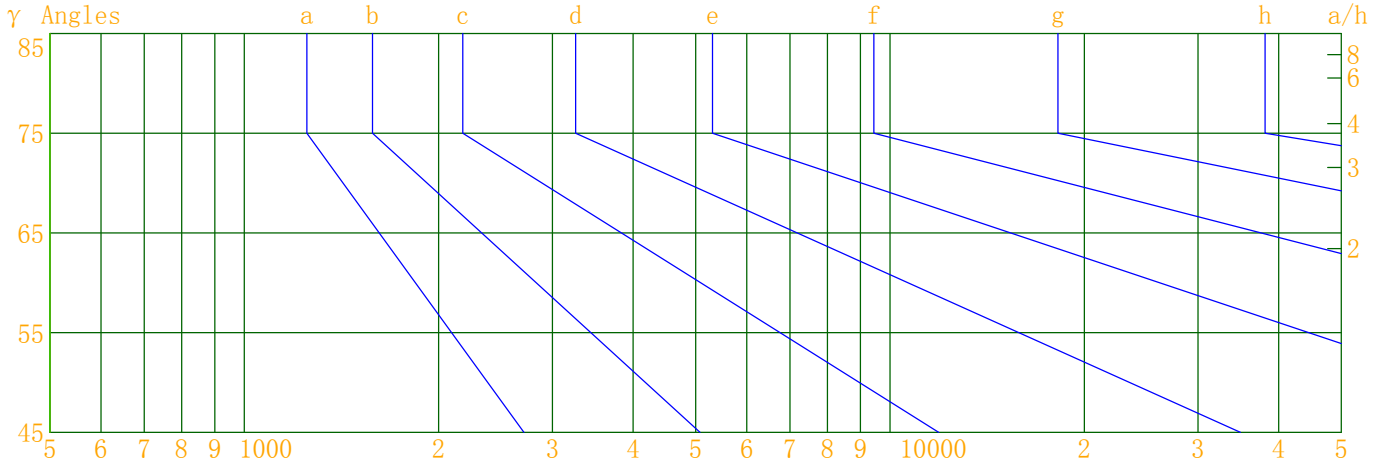
Glare Grade Table

| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Luminance Limiting Curve

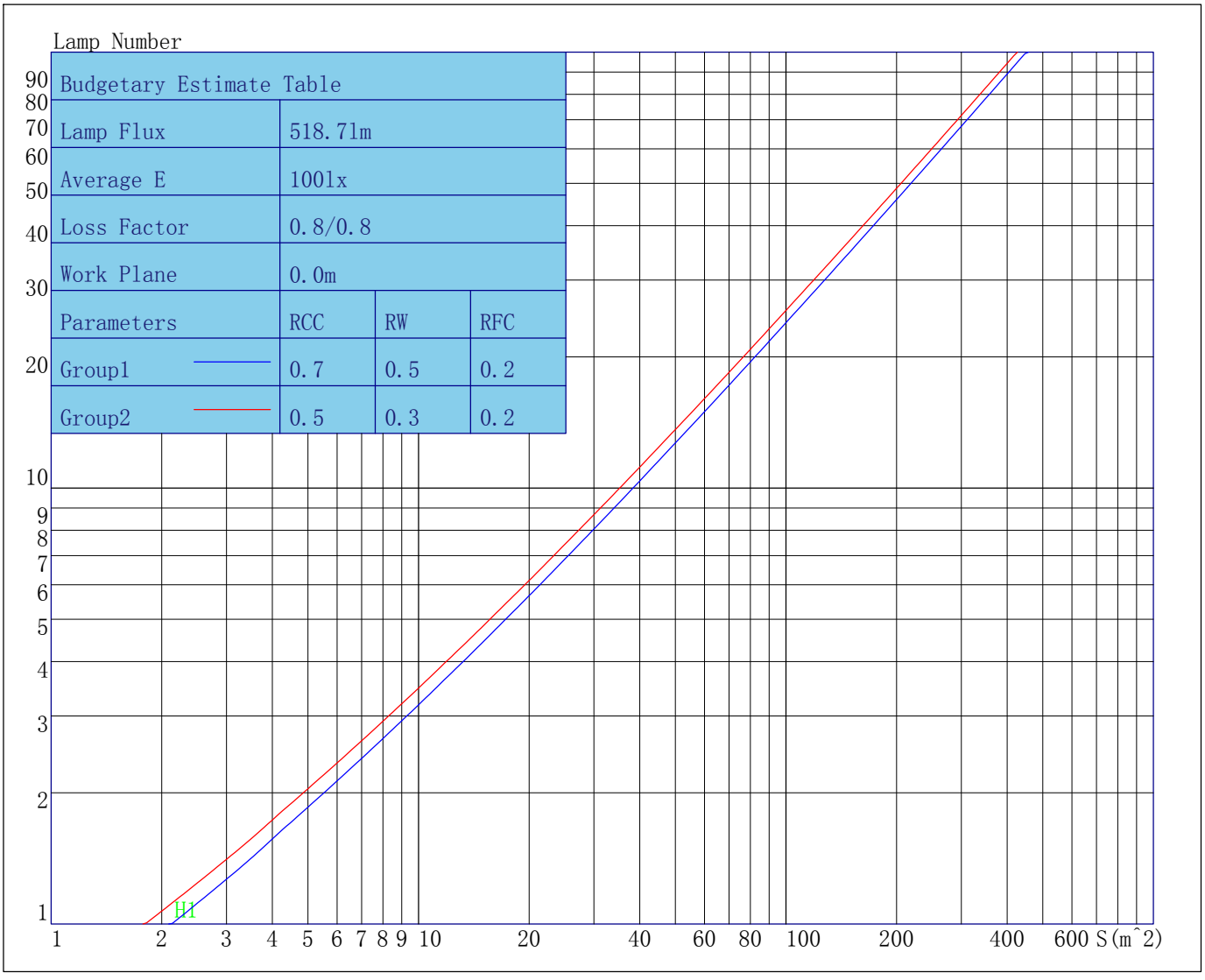



Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m^2)=0.000000
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

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# Indoor Budgetary Estimate Table

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 60D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/02 |




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-1022102+HCP-1032102 2700K 60D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/02 |

| 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 | 99 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 86 |
| 3 | 102 | 96 | 91 | 87 | 100 | 94 | 90 | 86 | 92 | 88 | 85 | 89 | 86 | 83 | 87 | 84 | 82 | 80 |
| 4 | 97 | 89 | 84 | 80 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 77 | 73 | 81 | 76 | 73 | 79 | 75 | 72 | 78 | 74 | 71 | 70 |
| 6 | 88 | 79 | 73 | 69 | 86 | 78 | 72 | 68 | 76 | 71 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 65 |
| 7 | 83 | 74 | 68 | 64 | 82 | 73 | 68 | 64 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 61 |
| 8 | 79 | 70 | 64 | 60 | 78 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 59 | 66 | 62 | 59 | 58 |
| 9 | 76 | 66 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 54 |
| 10 | 72 | 63 | 57 | 53 | 71 | 62 | 57 | 53 | 61 | 56 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 |

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# Unified Glare Rating Table

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 60D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/02 |

## Unified Glare Rating Table

| Ceiling RCC | | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Wall RW | | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 |
| Floor RFC | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Room Size | | Vewed crosswise | | | | | Vewed endwise | | | | |
| X=2H | Y=2H | -3.2 | -2.2 | -2.8 | -1.9 | -1.5 | -3.2 | -2.2 | -2.8 | -1.9 | -1.5 |
| | Y=3H | -3.4 | -2.5 | -3.0 | -2.2 | -1.8 | -3.4 | -2.5 | -3.0 | -2.2 | -1.8 |
| | Y=4H | -3.5 | -2.7 | -3.1 | -2.3 | -1.9 | -3.5 | -2.7 | -3.1 | -2.3 | -1.9 |
| | Y=6H | -3.6 | -2.8 | -3.2 | -2.5 | -2.1 | -3.6 | -2.8 | -3.2 | -2.5 | -2.1 |
| | Y=8H | -3.7 | -3.0 | -3.2 | -2.6 | -2.1 | -3.7 | -3.0 | -3.2 | -2.6 | -2.1 |
| | Y=12H | -3.7 | -3.0 | -3.3 | -2.7 | -2.2 | -3.7 | -3.0 | -3.3 | -2.7 | -2.2 |
| X=4H | Y=2H | -3.5 | -2.7 | -3.1 | -2.3 | -1.9 | -3.5 | -2.7 | -3.1 | -2.3 | -1.9 |
| | Y=3H | -3.7 | -3.0 | -3.3 | -2.6 | -2.2 | -3.7 | -3.0 | -3.3 | -2.6 | -2.2 |
| | Y=4H | -3.8 | -3.2 | -3.4 | -2.8 | -2.3 | -3.8 | -3.2 | -3.4 | -2.8 | -2.3 |
| | Y=6H | -3.9 | -3.4 | -3.5 | -3.0 | -2.5 | -3.9 | -3.4 | -3.5 | -3.0 | -2.5 |
| | Y=8H | -4.0 | -3.5 | -3.5 | -3.1 | -2.6 | -4.0 | -3.5 | -3.5 | -3.1 | -2.6 |
| | Y=12H | -4.1 | -3.7 | -3.6 | -3.2 | -2.7 | -4.1 | -3.7 | -3.6 | -3.2 | -2.7 |
| X=8H | Y=4H | -4.0 | -3.5 | -3.5 | -3.1 | -2.6 | -4.0 | -3.5 | -3.5 | -3.1 | -2.6 |
| | Y=6H | -4.1 | -3.7 | -3.6 | -3.2 | -2.7 | -4.1 | -3.7 | -3.6 | -3.2 | -2.7 |
| | Y=8H | -4.2 | -3.9 | -3.7 | -3.3 | -2.8 | -4.2 | -3.9 | -3.7 | -3.3 | -2.8 |
| | Y=12H | -4.3 | -4.0 | -3.7 | -3.5 | -2.9 | -4.3 | -4.0 | -3.7 | -3.5 | -2.9 |
| X=12H | Y=4H | -4.1 | -3.7 | -3.6 | -3.2 | -2.7 | -4.1 | -3.7 | -3.6 | -3.2 | -2.7 |
| | Y=6H | -4.2 | -3.9 | -3.7 | -3.4 | -2.8 | -4.2 | -3.9 | -3.7 | -3.4 | -2.8 |
| | Y=8H | -4.3 | -4.0 | -3.7 | -3.5 | -2.9 | -4.3 | -4.0 | -3.7 | -3.5 | -2.9 |
| Variations with the objerver position at spacings | | | | | | | | | | | |
| S=1.0H | | 0.0/0.0 | | | | | 0.0/0.0 | | | | |
| S=1.5H | | 0.0/0.0 | | | | | 0.0/0.0 | | | | |
| S=2.0H | | 0.0/0.0 | | | | | 0.0/0.0 | | | | |
| Reduced UGR Table: | | | | | | | | | | | |
| Nordic Standard Table: | | 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.

# Candela Tabulation

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---|---|---|---|---|
| γ 0.0 | 598.93 | 598.93 | 598.93 | 598.93 |
| γ 1.0 | 599.61 | 597.44 | 598.71 | 596.45 |
| γ 2.0 | 600.06 | 597.98 | 597.82 | 595.76 |
| γ 3.0 | 599.77 | 597.02 | 596.54 | 595.01 |
| γ 4.0 | 598.45 | 596.74 | 595.25 | 593.24 |
| γ 5.0 | 598.01 | 596.63 | 594.40 | 590.21 |
| γ 6.0 | 597.18 | 593.70 | 592.21 | 587.81 |
| γ 7.0 | 596.63 | 591.59 | 590.02 | 583.76 |
| γ 8.0 | 595.09 | 589.49 | 586.53 | 581.06 |
| γ 9.0 | 593.42 | 587.27 | 582.61 | 577.51 |
| γ 10.0 | 591.42 | 583.74 | 576.56 | 572.97 |
| γ 11.0 | 588.39 | 578.84 | 570.03 | 567.35 |
| γ 12.0 | 584.58 | 575.06 | 561.44 | 560.12 |
| γ 13.0 | 579.11 | 569.67 | 551.72 | 551.01 |
| γ 14.0 | 572.11 | 563.64 | 540.69 | 541.83 |
| γ 15.0 | 564.18 | 555.90 | 528.21 | 531.12 |
| γ 16.0 | 555.10 | 547.61 | 515.13 | 519.63 |
| γ 17.0 | 544.45 | 537.51 | 501.53 | 506.57 |
| γ 18.0 | 533.58 | 526.11 | 487.59 | 492.83 |
| γ 19.0 | 520.71 | 513.47 | 471.54 | 476.15 |
| γ 20.0 | 506.51 | 498.63 | 455.40 | 458.44 |
| γ 21.0 | 491.37 | 482.72 | 436.51 | 440.03 |
| γ 22.0 | 474.36 | 464.99 | 418.36 | 420.54 |
| γ 23.0 | 457.06 | 446.33 | 395.24 | 399.85 |
| γ 24.0 | 438.01 | 426.63 | 374.04 | 377.64 |
| γ 25.0 | 418.15 | 403.86 | 348.40 | 352.52 |
| γ 26.0 | 395.42 | 381.06 | 324.79 | 328.27 |
| γ 27.0 | 371.59 | 355.31 | 298.10 | 302.51 |
| γ 28.0 | 346.35 | 331.22 | 272.95 | 276.90 |
| γ 29.0 | 321.78 | 306.06 | 249.86 | 253.29 |
| γ 30.0 | 295.98 | 281.28 | 228.50 | 230.64 |
| γ 31.0 | 272.77 | 256.75 | 208.31 | 208.35 |
| γ 32.0 | 249.96 | 233.28 | 189.66 | 187.50 |
| γ 33.0 | 228.63 | 210.47 | 169.69 | 168.31 |
| γ 34.0 | 208.62 | 189.15 | 142.40 | 147.57 |
| γ 35.0 | 190.01 | 168.09 | 118.84 | 122.00 |
| γ 36.0 | 170.54 | 138.96 | 99.84 | 100.61 |
| γ 37.0 | 143.50 | 113.49 | 84.23 | 85.27 |
| γ 38.0 | 118.58 | 94.77 | 73.38 | 73.93 |
| γ 39.0 | 98.10 | 79.80 | 64.53 | 64.30 |
| γ 40.0 | 82.96 | 68.40 | 55.74 | 56.27 |
| γ 41.0 | 71.99 | 59.21 | 48.32 | 49.49 |
| γ 42.0 | 63.20 | 50.57 | 41.93 | 43.47 |
| γ 43.0 | 55.24 | 43.61 | 36.08 | 38.20 |
| γ 44.0 | 48.88 | 37.83 | 31.28 | 33.68 |
| γ 45.0 | 43.26 | 32.88 | 26.57 | 29.44 |
| γ 46.0 | 38.25 | 28.67 | 21.65 | 25.50 |

## Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---|---|---|---|---|
| γ 47.0 | 33.75 | 24.73 | 17.69 | 21.92 |
| γ 48.0 | 29.66 | 20.88 | 13.79 | 18.09 |
| γ 49.0 | 25.55 | 17.89 | 11.75 | 15.42 |
| γ 50.0 | 21.70 | 14.72 | 10.51 | 13.38 |
| γ 51.0 | 18.26 | 13.06 | 9.33 | 11.81 |
| γ 52.0 | 16.39 | 11.87 | 8.73 | 10.93 |
| γ 53.0 | 14.64 | 10.82 | 8.21 | 10.18 |
| γ 54.0 | 13.57 | 10.31 | 7.82 | 9.60 |
| γ 55.0 | 12.62 | 9.43 | 7.51 | 9.22 |
| γ 56.0 | 11.68 | 9.21 | 7.22 | 8.85 |
| γ 57.0 | 11.13 | 8.81 | 6.99 | 8.54 |
| γ 58.0 | 10.61 | 8.42 | 6.76 | 8.27 |
| γ 59.0 | 10.15 | 8.06 | 6.53 | 8.00 |
| γ 60.0 | 9.72 | 7.70 | 6.32 | 7.75 |
| γ 61.0 | 9.33 | 7.35 | 6.08 | 7.48 |
| γ 62.0 | 8.93 | 7.00 | 5.85 | 7.22 |
| γ 63.0 | 8.56 | 6.67 | 5.60 | 6.95 |
| γ 64.0 | 8.18 | 6.33 | 5.36 | 6.68 |
| γ 65.0 | 7.82 | 5.99 | 5.06 | 6.38 |
| γ 66.0 | 7.46 | 5.66 | 4.76 | 6.04 |
| γ 67.0 | 7.10 | 5.30 | 4.43 | 5.66 |
| γ 68.0 | 6.71 | 4.92 | 4.14 | 5.31 |
| γ 69.0 | 6.31 | 4.53 | 3.83 | 4.99 |
| γ 70.0 | 5.89 | 4.18 | 3.54 | 4.66 |
| γ 71.0 | 5.50 | 3.82 | 3.26 | 4.33 |
| γ 72.0 | 5.11 | 3.50 | 2.98 | 4.02 |
| γ 73.0 | 4.75 | 3.18 | 2.68 | 3.69 |
| γ 74.0 | 4.39 | 2.88 | 2.40 | 3.39 |
| γ 75.0 | 4.04 | 2.57 | 2.12 | 3.08 |
| γ 76.0 | 3.69 | 2.26 | 1.84 | 2.78 |
| γ 77.0 | 3.37 | 1.98 | 1.57 | 2.49 |
| γ 78.0 | 3.05 | 1.70 | 1.30 | 2.21 |
| γ 79.0 | 2.72 | 1.42 | 1.03 | 1.92 |
| γ 80.0 | 2.40 | 1.17 | 0.77 | 1.51 |
| γ 81.0 | 2.10 | 0.89 | 0.50 | 0.88 |
| γ 82.0 | 1.80 | 0.63 | 0.26 | 0.58 |
| γ 83.0 | 1.50 | 0.38 | 0.01 | 0.41 |
| γ 84.0 | 1.21 | 0.14 | 0.00 | 0.25 |
| γ 85.0 | 0.92 | 0.00 | 0.00 | 0.12 |
| γ 86.0 | 0.64 | 0.00 | 0.00 | 0.00 |
| γ 87.0 | 0.36 | 0.00 | 0.00 | 0.00 |
| γ 88.0 | 0.10 | 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 |

## 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 | 0.00 | 0.00 |
| γ 147.0 | 0.00 | 0.00 | 0.01 | 0.06 |
| γ 148.0 | 0.00 | 0.00 | 0.09 | 0.11 |
| γ 149.0 | 0.00 | 0.00 | 0.14 | 0.17 |
| γ 150.0 | 0.00 | 0.00 | 0.19 | 0.22 |
| γ 151.0 | 0.05 | 0.00 | 0.25 | 0.27 |
| γ 152.0 | 0.10 | 0.00 | 0.30 | 0.32 |
| γ 153.0 | 0.16 | 0.03 | 0.36 | 0.36 |
| γ 154.0 | 0.22 | 0.08 | 0.40 | 0.42 |
| γ 155.0 | 0.26 | 0.13 | 0.45 | 0.45 |
| γ 156.0 | 0.30 | 0.18 | 0.50 | 0.50 |
| γ 157.0 | 0.35 | 0.23 | 0.54 | 0.55 |
| γ 158.0 | 0.40 | 0.28 | 0.60 | 0.59 |
| γ 159.0 | 0.45 | 0.33 | 0.64 | 0.63 |
| γ 160.0 | 0.49 | 0.38 | 0.68 | 0.67 |
| γ 161.0 | 0.54 | 0.43 | 0.72 | 0.71 |
| γ 162.0 | 0.57 | 0.46 | 0.76 | 0.75 |
| γ 163.0 | 0.63 | 0.52 | 0.79 | 0.79 |
| γ 164.0 | 0.67 | 0.56 | 0.83 | 0.84 |
| γ 165.0 | 0.71 | 0.61 | 0.88 | 0.87 |
| γ 166.0 | 0.75 | 0.65 | 0.91 | 0.90 |
| γ 167.0 | 0.80 | 0.70 | 0.94 | 0.94 |
| γ 168.0 | 0.84 | 0.75 | 0.98 | 0.97 |
| γ 169.0 | 0.88 | 0.79 | 1.01 | 0.99 |
| γ 170.0 | 0.93 | 0.83 | 1.04 | 1.03 |
| γ 171.0 | 0.96 | 0.86 | 1.08 | 1.05 |
| γ 172.0 | 0.99 | 0.90 | 1.10 | 1.08 |
| γ 173.0 | 1.03 | 0.93 | 1.12 | 1.10 |
| γ 174.0 | 1.06 | 0.97 | 1.14 | 1.13 |
| γ 175.0 | 1.09 | 0.99 | 1.17 | 1.14 |
| γ 176.0 | 1.12 | 1.02 | 1.18 | 1.16 |
| γ 177.0 | 1.15 | 1.05 | 1.18 | 1.17 |
| γ 178.0 | 1.15 | 1.07 | 1.20 | 1.17 |
| γ 179.0 | 1.17 | 1.08 | 1.19 | 1.19 |
| γ 180.0 | 1.17 | 1.17 | 1.17 | 1.17 |