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# Indoor Luminaire Photometric Data

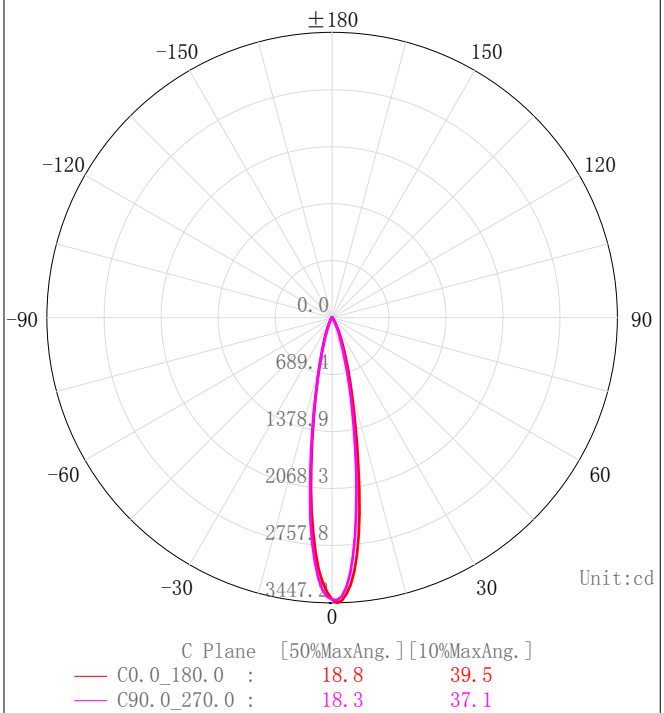
## Description Information

| | | | |
|---|---|---|---|
| Luminary Name: HCP-1022102+HCP-1032102 2700K 15D | | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | | Lamp Catelog: LED | Test Date: 2020/12/03 |
| 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 |

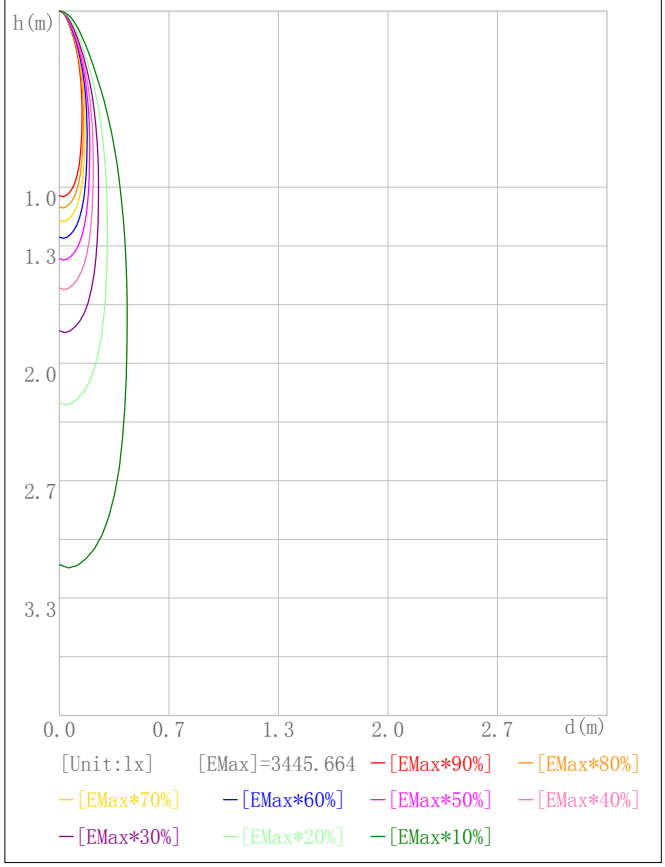
## Character Parameter

| Lamp Speciality Parameter | Luminaire Speciality Parameter | |
|---|---|---|
| Rated Flux(lm): 536.930 | Luminary Flux(lm): 536.926 | Field Angle(10%Imax): 39.5(° ) |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 535.818lm 99.79% |
| Rated Voltage(V): | Luminary EER(lm/W): 55.273 | Up Lumens&Percent: 1.107lm 0.21% |
| Tested Power(W): 9.714 | Max.Candela(cd): 3447.239 | S/MH: C0_a180=0.324 C90_270=0.314 |
| Lamps' Inside: 1 | Max Cand@Ang.(° ): C=0.0 γ=1.0 | CIE Type: Semi-Direct |
| Tested Electrics(V,A,pf):240.5,0.044,0.911 | Beam Angle(50%Imax): 18.8(° ) | ErP Φuse(90° ): 513.899lm |
| Lamp Size(W*L*H):0.000m*0.000m*0.000m | Left=-8.3° ,Right=10.5° | IRF(%): 1233.836 |

## C Plane Distribution Diagram



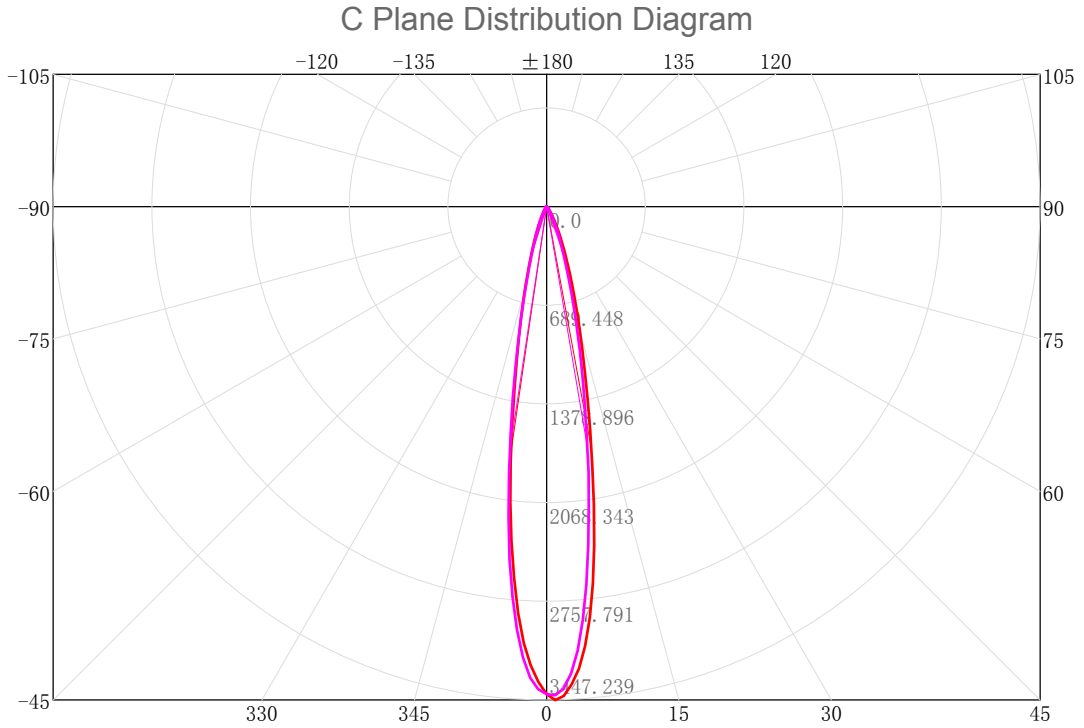

## C0 Space ISO Illuminance Curve

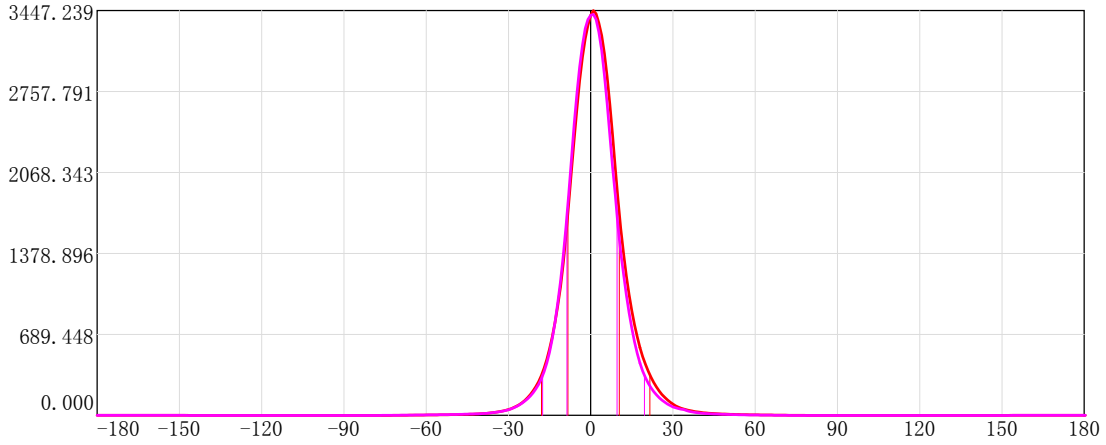


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# 2D Plane Light Intensity Distribution Curve

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/03 |



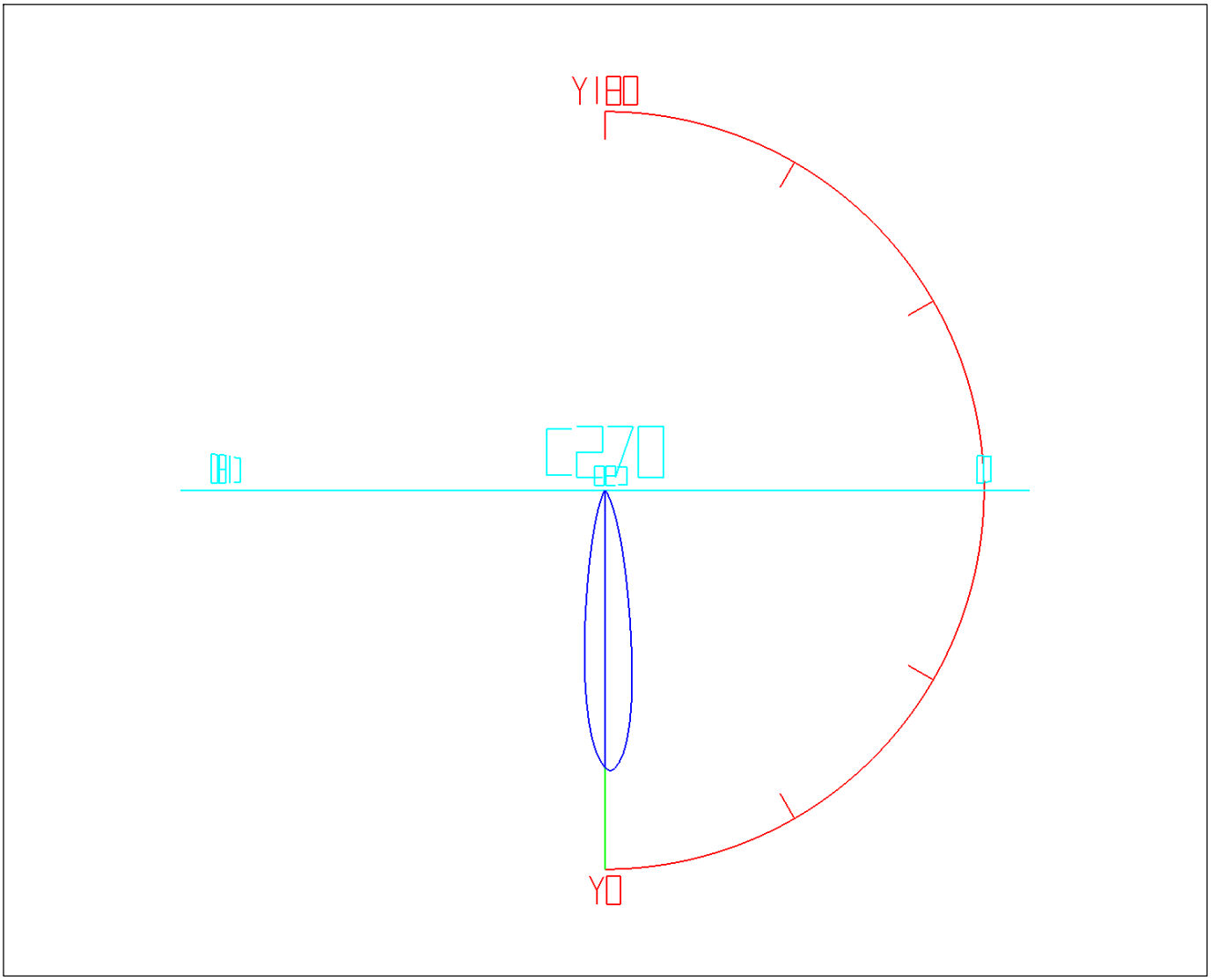

| C Plane | [50%MaxAng.] | [10%MaxAng.] | Unit:cd |
|---|---|---|---|
| C0.0_180.0 : | 18.8 | 39.5 | |
| C90.0_270.0 : | 18.3 | 37.1 | |

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# 3D Light Intensity Distribution Modal

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/03 |

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 | 3.25 | 3.25 | 0.61 | 0.61 | 47.0-48.0 | 0.84 | 524.94 | 0.16 | 97.77 |
| 1.0-2.0 | 9.63 | 12.88 | 1.79 | 2.40 | 48.0-49.0 | 0.80 | 525.74 | 0.15 | 97.92 |
| 2.0-3.0 | 15.61 | 28.49 | 2.91 | 5.31 | 49.0-50.0 | 0.75 | 526.49 | 0.14 | 98.06 |
| 3.0-4.0 | 20.89 | 49.39 | 3.89 | 9.20 | 50.0-51.0 | 0.70 | 527.20 | 0.13 | 98.19 |
| 4.0-5.0 | 25.25 | 74.64 | 4.70 | 13.90 | 51.0-52.0 | 0.66 | 527.86 | 0.12 | 98.31 |
| 5.0-6.0 | 28.50 | 103.14 | 5.31 | 19.21 | 52.0-53.0 | 0.62 | 528.48 | 0.12 | 98.43 |
| 6.0-7.0 | 30.51 | 133.65 | 5.68 | 24.89 | 53.0-54.0 | 0.59 | 529.07 | 0.11 | 98.54 |
| 7.0-8.0 | 31.28 | 164.93 | 5.83 | 30.72 | 54.0-55.0 | 0.56 | 529.63 | 0.10 | 98.64 |
| 8.0-9.0 | 31.03 | 195.96 | 5.78 | 36.50 | 55.0-56.0 | 0.53 | 530.16 | 0.10 | 98.74 |
| 9.0-10.0 | 29.92 | 225.88 | 5.57 | 42.07 | 56.0-57.0 | 0.50 | 530.66 | 0.09 | 98.83 |
| 10.0-11.0 | 28.28 | 254.16 | 5.27 | 47.34 | 57.0-58.0 | 0.48 | 531.14 | 0.09 | 98.92 |
| 11.0-12.0 | 26.45 | 280.61 | 4.93 | 52.26 | 58.0-59.0 | 0.45 | 531.59 | 0.08 | 99.01 |
| 12.0-13.0 | 24.48 | 305.09 | 4.56 | 56.82 | 59.0-60.0 | 0.43 | 532.02 | 0.08 | 99.09 |
| 13.0-14.0 | 22.46 | 327.55 | 4.18 | 61.00 | 60.0-61.0 | 0.41 | 532.43 | 0.08 | 99.16 |
| 14.0-15.0 | 20.46 | 348.01 | 3.81 | 64.81 | 61.0-62.0 | 0.38 | 532.81 | 0.07 | 99.23 |
| 15.0-16.0 | 18.54 | 366.55 | 3.45 | 68.27 | 62.0-63.0 | 0.36 | 533.17 | 0.07 | 99.30 |
| 16.0-17.0 | 16.72 | 383.26 | 3.11 | 71.38 | 63.0-64.0 | 0.34 | 533.51 | 0.06 | 99.36 |
| 17.0-18.0 | 15.04 | 398.30 | 2.80 | 74.18 | 64.0-65.0 | 0.31 | 533.82 | 0.06 | 99.42 |
| 18.0-19.0 | 13.50 | 411.80 | 2.51 | 76.70 | 65.0-66.0 | 0.29 | 534.11 | 0.05 | 99.47 |
| 19.0-20.0 | 12.13 | 423.93 | 2.26 | 78.95 | 66.0-67.0 | 0.26 | 534.37 | 0.05 | 99.52 |
| 20.0-21.0 | 10.91 | 434.84 | 2.03 | 80.99 | 67.0-68.0 | 0.24 | 534.61 | 0.04 | 99.57 |
| 21.0-22.0 | 9.81 | 444.65 | 1.83 | 82.81 | 68.0-69.0 | 0.21 | 534.82 | 0.04 | 99.61 |
| 22.0-23.0 | 8.81 | 453.46 | 1.64 | 84.46 | 69.0-70.0 | 0.19 | 535.00 | 0.03 | 99.64 |
| 23.0-24.0 | 7.90 | 461.36 | 1.47 | 85.93 | 70.0-71.0 | 0.16 | 535.17 | 0.03 | 99.67 |
| 24.0-25.0 | 7.06 | 468.42 | 1.31 | 87.24 | 71.0-72.0 | 0.14 | 535.31 | 0.03 | 99.70 |
| 25.0-26.0 | 6.30 | 474.72 | 1.17 | 88.41 | 72.0-73.0 | 0.12 | 535.43 | 0.02 | 99.72 |
| 26.0-27.0 | 5.60 | 480.31 | 1.04 | 89.46 | 73.0-74.0 | 0.10 | 535.52 | 0.02 | 99.74 |
| 27.0-28.0 | 4.96 | 485.27 | 0.92 | 90.38 | 74.0-75.0 | 0.08 | 535.60 | 0.01 | 99.75 |
| 28.0-29.0 | 4.39 | 489.67 | 0.82 | 91.20 | 75.0-76.0 | 0.06 | 535.67 | 0.01 | 99.76 |
| 29.0-30.0 | 3.89 | 493.56 | 0.72 | 91.92 | 76.0-77.0 | 0.05 | 535.72 | 0.01 | 99.77 |
| 30.0-31.0 | 3.47 | 497.03 | 0.65 | 92.57 | 77.0-78.0 | 0.04 | 535.76 | 0.01 | 99.78 |
| 31.0-32.0 | 3.14 | 500.17 | 0.59 | 93.15 | 78.0-79.0 | 0.03 | 535.78 | 0.01 | 99.79 |
| 32.0-33.0 | 2.85 | 503.03 | 0.53 | 93.69 | 79.0-80.0 | 0.02 | 535.80 | 0.00 | 99.79 |
| 33.0-34.0 | 2.61 | 505.63 | 0.49 | 94.17 | 80.0-81.0 | 0.01 | 535.81 | 0.00 | 99.79 |
| 34.0-35.0 | 2.36 | 507.99 | 0.44 | 94.61 | 81.0-82.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 35.0-36.0 | 2.09 | 510.08 | 0.39 | 95.00 | 82.0-83.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 36.0-37.0 | 1.87 | 511.95 | 0.35 | 95.35 | 83.0-84.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 37.0-38.0 | 1.70 | 513.64 | 0.32 | 95.66 | 84.0-85.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 38.0-39.0 | 1.54 | 515.19 | 0.29 | 95.95 | 85.0-86.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 39.0-40.0 | 1.42 | 516.60 | 0.26 | 96.21 | 86.0-87.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 40.0-41.0 | 1.30 | 517.90 | 0.24 | 96.46 | 87.0-88.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 41.0-42.0 | 1.20 | 519.11 | 0.22 | 96.68 | 88.0-89.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 42.0-43.0 | 1.12 | 520.23 | 0.21 | 96.89 | 89.0-90.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 43.0-44.0 | 1.05 | 521.28 | 0.20 | 97.09 | 90.0-91.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 44.0-45.0 | 0.99 | 522.27 | 0.18 | 97.27 | 91.0-92.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 45.0-46.0 | 0.94 | 523.21 | 0.17 | 97.44 | 92.0-93.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 46.0-47.0 | 0.89 | 524.10 | 0.17 | 97.61 | 93.0-94.0 | 0.00 | 535.82 | 0.00 | 99.79 |

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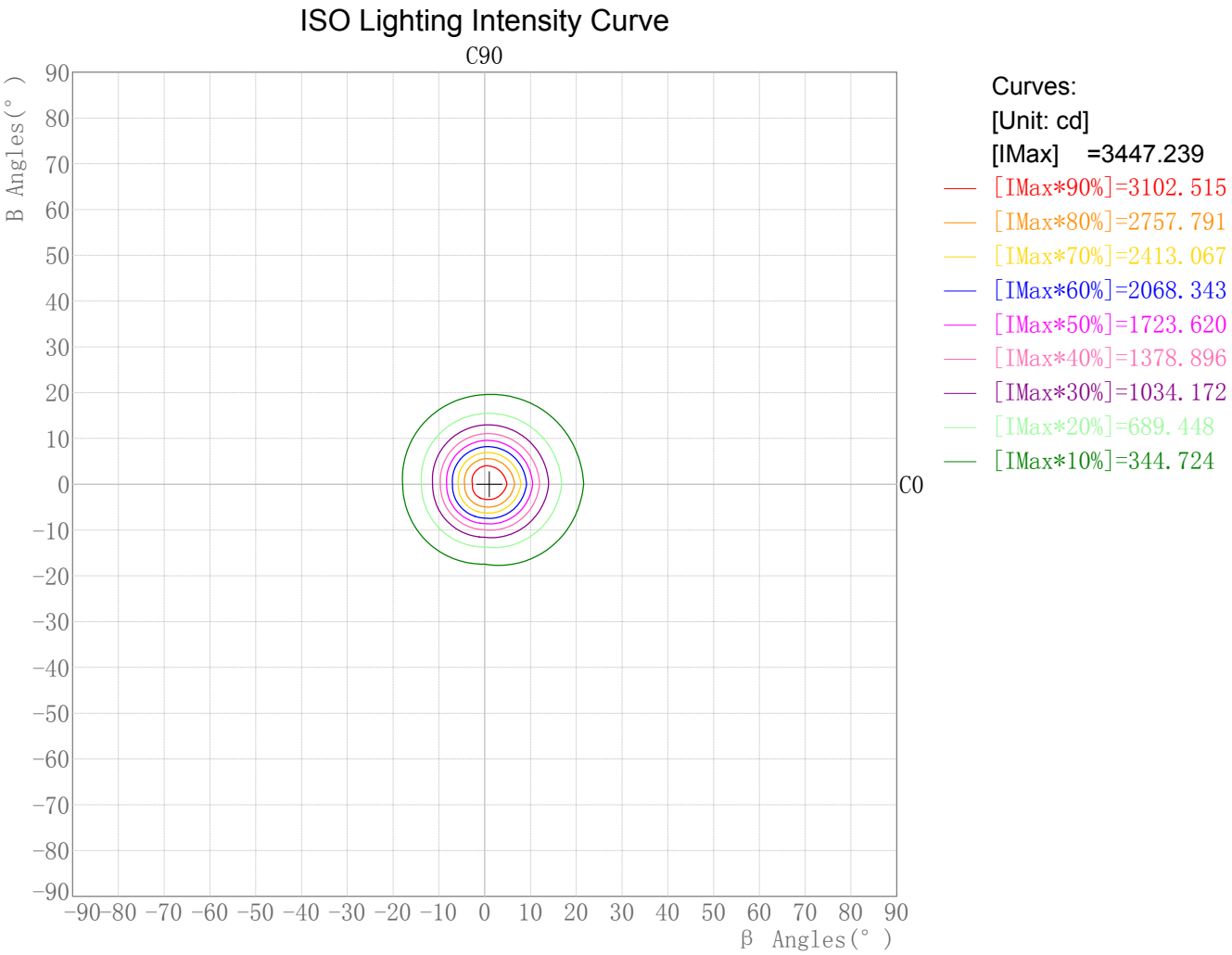
# Zonal Flux Tabulation - (Cont.)

| Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|---|---|---|---|---|
| 94.0-95.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 95.0-96.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 96.0-97.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 97.0-98.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 98.0-99.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 99.0-100.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 100.0-101.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 101.0-102.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 102.0-103.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 103.0-104.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 104.0-105.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 105.0-106.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 106.0-107.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 107.0-108.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 108.0-109.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 109.0-110.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 110.0-111.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 111.0-112.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 112.0-113.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 113.0-114.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 114.0-115.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 115.0-116.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 116.0-117.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 117.0-118.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 118.0-119.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 119.0-120.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 120.0-121.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 121.0-122.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 122.0-123.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 123.0-124.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 124.0-125.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 125.0-126.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 126.0-127.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 127.0-128.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 128.0-129.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 129.0-130.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 130.0-131.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 131.0-132.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 132.0-133.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 133.0-134.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 134.0-135.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 135.0-136.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 136.0-137.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 137.0-138.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 138.0-139.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 139.0-140.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 140.0-141.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 141.0-142.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 142.0-143.0 | 0.00 | 535.82 | 0.00 | 99.79 |
| 143.0-144.0 | 0.01 | 535.83 | 0.00 | 99.79 |
| 144.0-145.0 | 0.01 | 535.84 | 0.00 | 99.80 |
| 145.0-146.0 | 0.01 | 535.85 | 0.00 | 99.80 |
| 146.0-147.0 | 0.02 | 535.87 | 0.00 | 99.80 |
| 147.0-148.0 | 0.02 | 535.89 | 0.00 | 99.81 |
| 148.0-149.0 | 0.03 | 535.92 | 0.01 | 99.81 |
| 149.0-150.0 | 0.04 | 535.96 | 0.01 | 99.82 |
| 150.0-151.0 | 0.04 | 536.00 | 0.01 | 99.83 |
| 151.0-152.0 | 0.04 | 536.04 | 0.01 | 99.83 |
| 152.0-153.0 | 0.05 | 536.09 | 0.01 | 99.84 |
| 153.0-154.0 | 0.05 | 536.13 | 0.01 | 99.85 |
| 154.0-155.0 | 0.05 | 536.18 | 0.01 | 99.86 |
| 155.0-156.0 | 0.05 | 536.23 | 0.01 | 99.87 |
| 156.0-157.0 | 0.05 | 536.28 | 0.01 | 99.88 |
| 157.0-158.0 | 0.05 | 536.33 | 0.01 | 99.89 |
| 158.0-159.0 | 0.05 | 536.38 | 0.01 | 99.90 |
| 159.0-160.0 | 0.05 | 536.43 | 0.01 | 99.91 |
| 160.0-161.0 | 0.05 | 536.48 | 0.01 | 99.92 |
| 161.0-162.0 | 0.05 | 536.52 | 0.01 | 99.92 |
| 162.0-163.0 | 0.04 | 536.57 | 0.01 | 99.93 |
| 163.0-164.0 | 0.04 | 536.61 | 0.01 | 99.94 |
| 164.0-165.0 | 0.04 | 536.65 | 0.01 | 99.95 |
| 165.0-166.0 | 0.04 | 536.68 | 0.01 | 99.95 |
| 166.0-167.0 | 0.03 | 536.72 | 0.01 | 99.96 |
| 167.0-168.0 | 0.03 | 536.75 | 0.01 | 99.97 |
| 168.0-169.0 | 0.03 | 536.78 | 0.01 | 99.97 |
| 169.0-170.0 | 0.03 | 536.81 | 0.00 | 99.98 |
| 170.0-171.0 | 0.02 | 536.83 | 0.00 | 99.98 |
| 171.0-172.0 | 0.02 | 536.85 | 0.00 | 99.99 |
| 172.0-173.0 | 0.02 | 536.87 | 0.00 | 99.99 |
| 173.0-174.0 | 0.02 | 536.89 | 0.00 | 99.99 |
| 174.0-175.0 | 0.01 | 536.90 | 0.00 | 99.99 |
| 175.0-176.0 | 0.01 | 536.91 | 0.00 | 100.00 |
| 176.0-177.0 | 0.01 | 536.92 | 0.00 | 100.00 |
| 177.0-178.0 | 0.01 | 536.92 | 0.00 | 100.00 |
| 178.0-179.0 | 0.00 | 536.92 | 0.00 | 100.00 |
| 179.0-180.0 | 0.00 | 536.93 | 0.00 | 100.00 |

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# Rectangle ISO Lighting Intensity Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/03 |



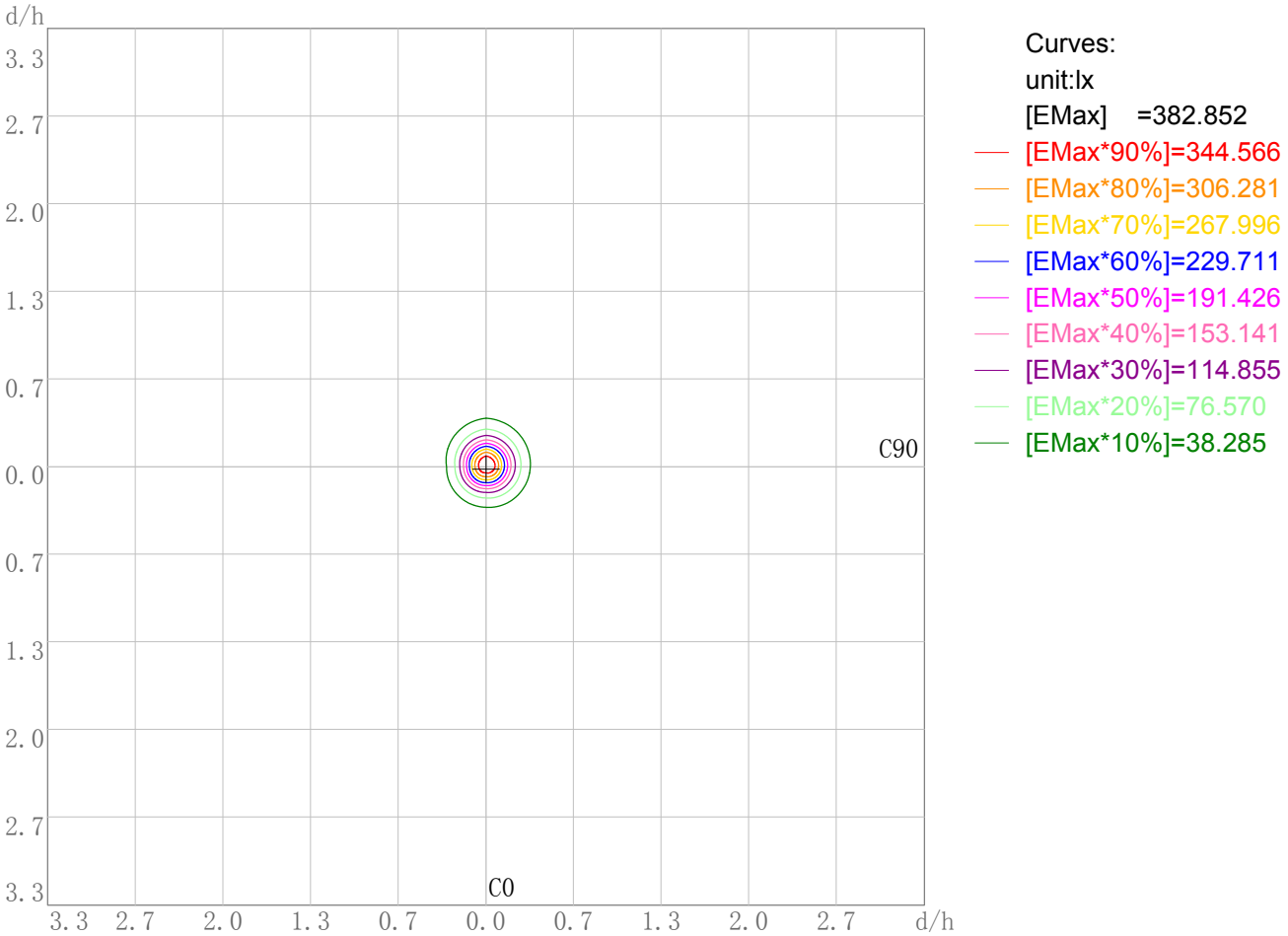

Maximum Light Intensity(cd): 3447.24
Maximum Cand.@Angle: H=1.0°,V=0.0°

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# Plane ISO-Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 15D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/03 |

## Plane ISO-Illuminance Curve



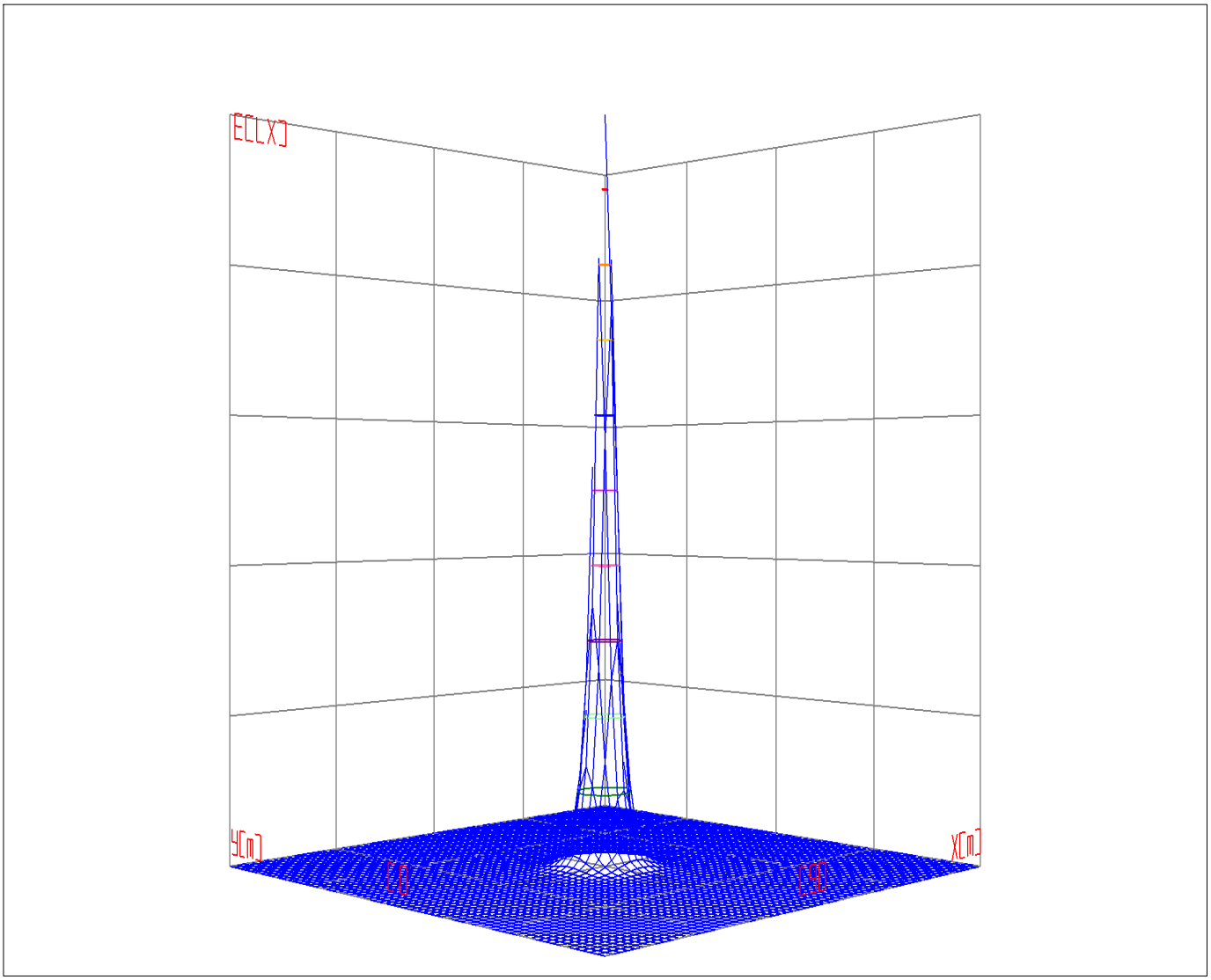

Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 382.85
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

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# 3D Plane ISO Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 15D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/03 |

## 3D Plane Illuminance Modal



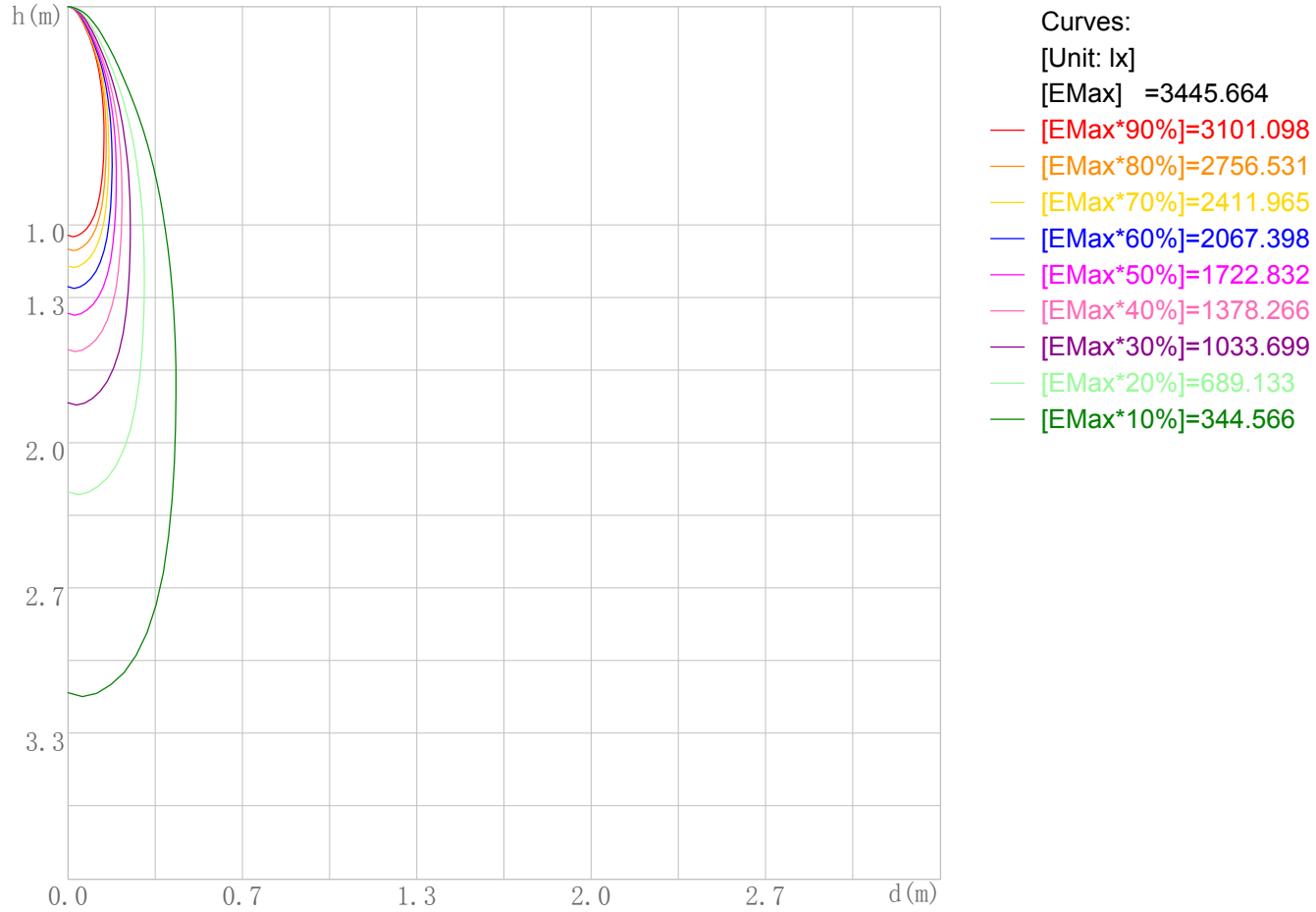

Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

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# Space ISO Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 15D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/03 |

## Space ISO Illuminance Curve

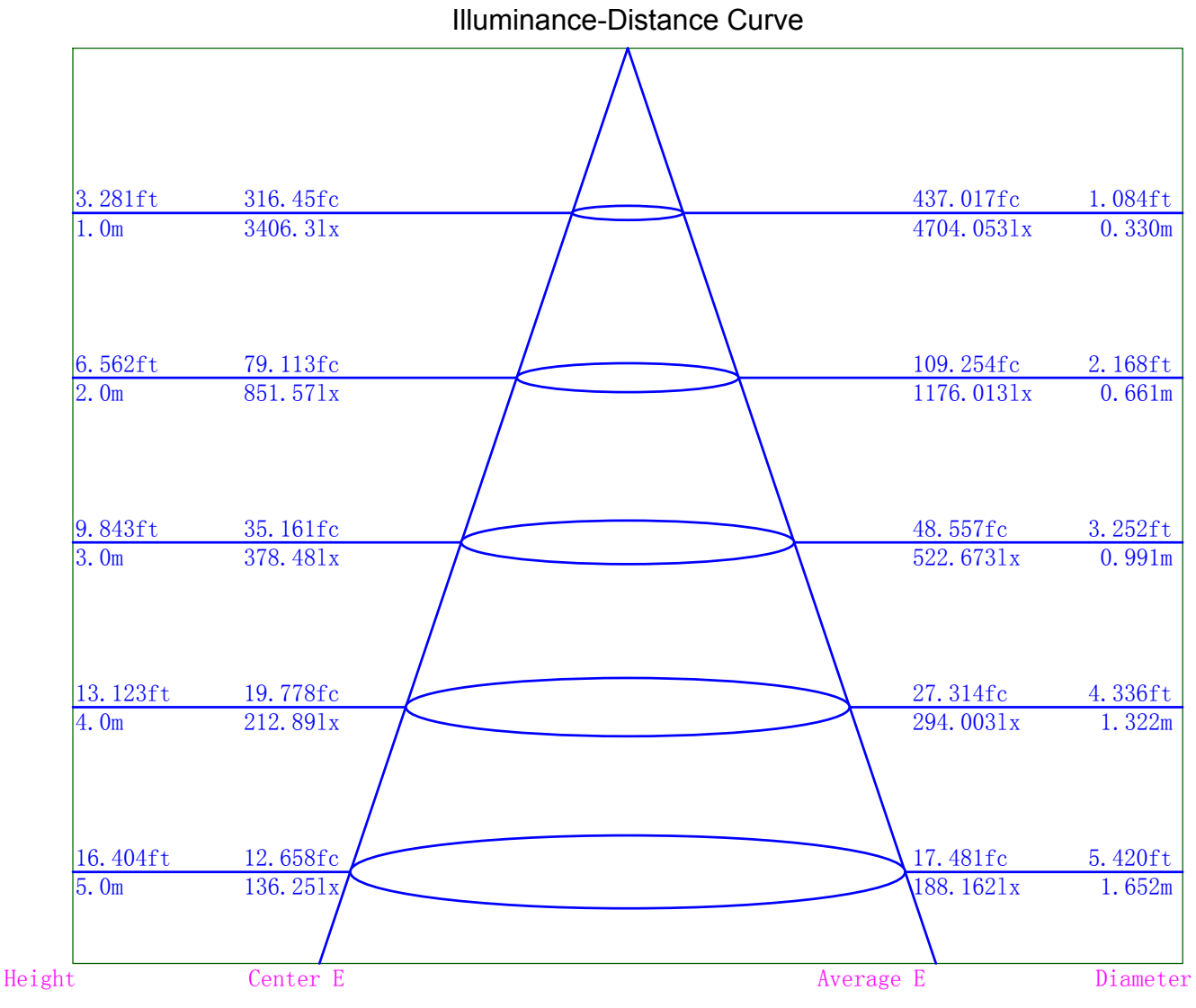



Space Plane Maximum Illuminance and @Angle:3445.66lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:3447.239cd,0eg

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# Illuminance-Distance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 15D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/03 |




Beam Angle:18.8

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# Indoor Luminance Limiting Curves

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 15D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/03 |

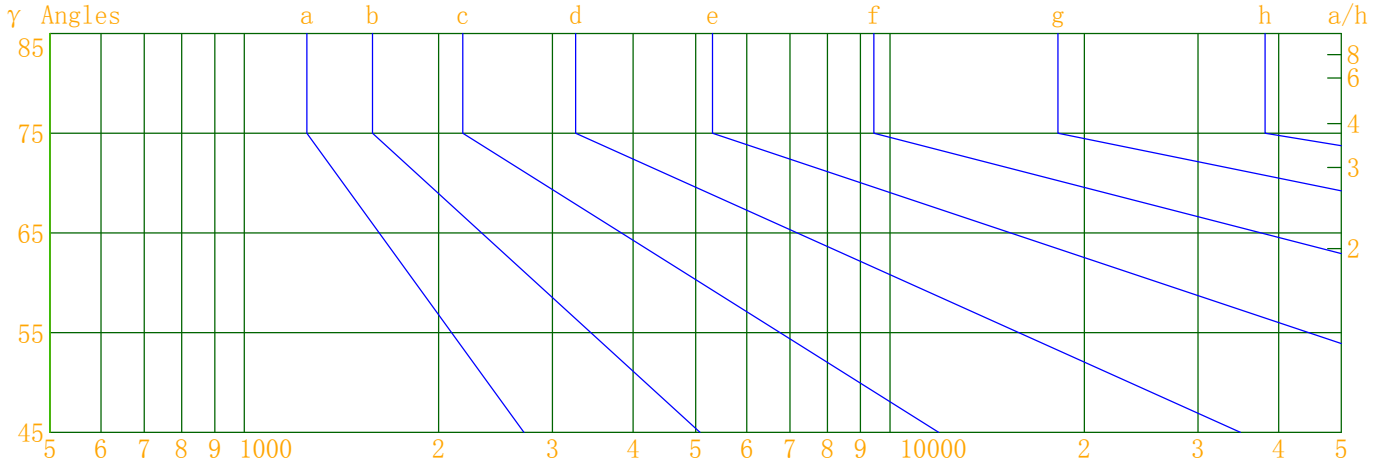
Glare Grade Table

| 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

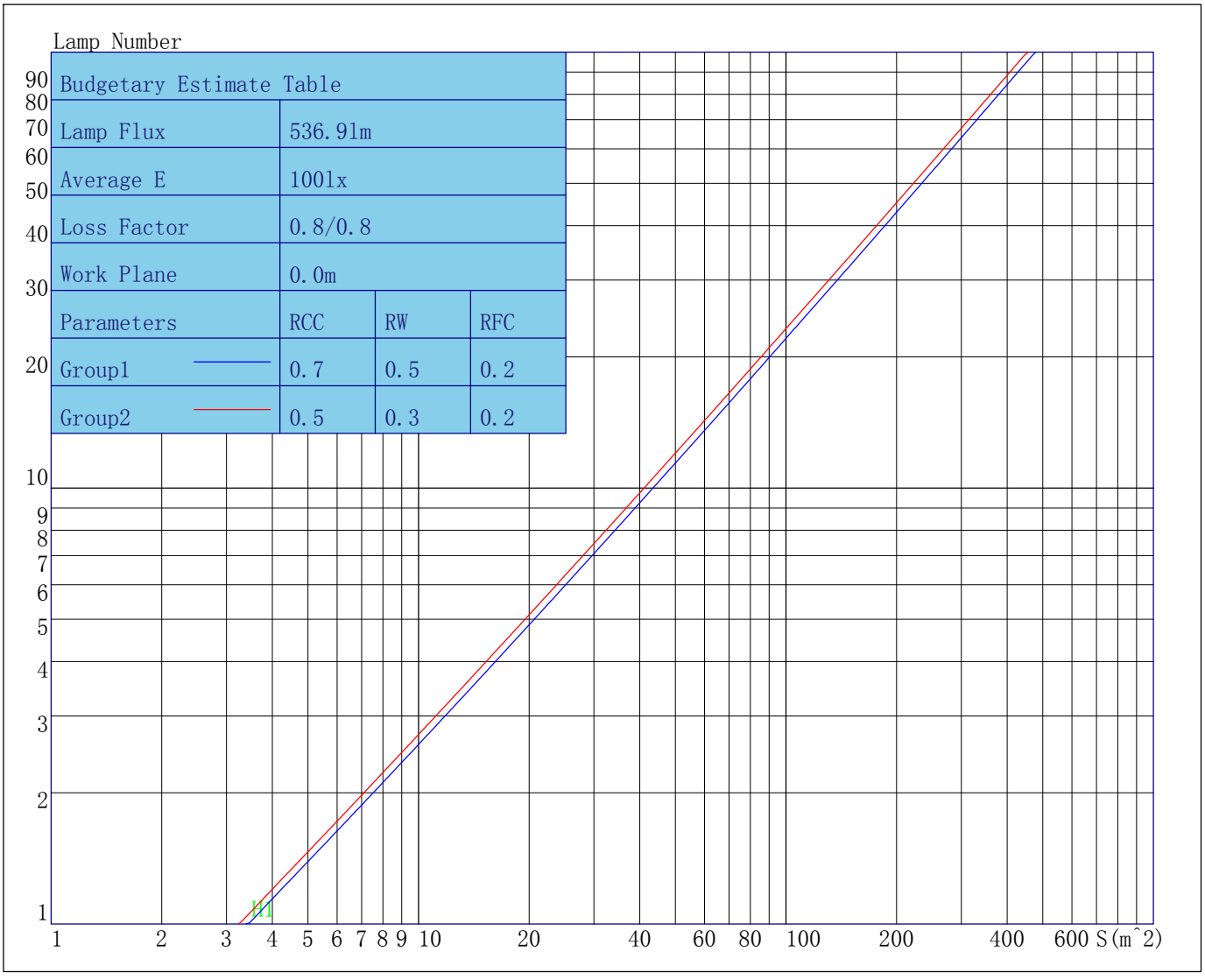



Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m^2)=0.000000
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

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# Indoor Budgetary Estimate Table

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 15D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/03 |




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 15D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/03 |

| 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 | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 107 | 107 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 96 |
| 2 | 111 | 108 | 104 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99 | 100 | 98 | 97 | 97 | 96 | 95 | 93 |
| 3 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 96 | 99 | 96 | 94 | 97 | 95 | 93 | 95 | 93 | 91 | 90 |
| 4 | 104 | 99 | 95 | 92 | 103 | 98 | 94 | 91 | 96 | 93 | 90 | 94 | 91 | 89 | 92 | 90 | 88 | 87 |
| 5 | 101 | 95 | 91 | 88 | 100 | 95 | 91 | 88 | 93 | 90 | 87 | 91 | 89 | 86 | 90 | 88 | 86 | 85 |
| 6 | 98 | 92 | 88 | 85 | 97 | 92 | 88 | 85 | 90 | 87 | 84 | 89 | 86 | 84 | 88 | 85 | 83 | 82 |
| 7 | 96 | 89 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 82 | 87 | 84 | 81 | 86 | 83 | 81 | 80 |
| 8 | 93 | 87 | 83 | 80 | 92 | 86 | 83 | 80 | 85 | 82 | 80 | 85 | 81 | 79 | 84 | 81 | 79 | 78 |
| 9 | 91 | 85 | 81 | 78 | 90 | 84 | 80 | 78 | 83 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 77 | 76 |
| 10 | 89 | 82 | 78 | 76 | 88 | 82 | 78 | 76 | 81 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 |

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# Unified Glare Rating Table

| | | |
|---|---|---|
| Lum.Name: HCP-1022102+HCP-1032102 2700K 15D | Lum.Catelog: | Test ID: |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/12/03 |

## 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 | -3.0 | -2.1 | -2.6 | -1.7 | -1.4 | -3.0 | -2.1 | -2.6 | -1.7 | -1.4 |
| | Y=3H | -3.2 | -2.4 | -2.8 | -2.0 | -1.7 | -3.2 | -2.4 | -2.8 | -2.0 | -1.7 |
| | Y=4H | -3.3 | -2.5 | -2.9 | -2.2 | -1.8 | -3.3 | -2.5 | -2.9 | -2.2 | -1.8 |
| | Y=6H | -3.4 | -2.7 | -3.0 | -2.3 | -1.9 | -3.4 | -2.7 | -3.0 | -2.3 | -1.9 |
| | Y=8H | -3.5 | -2.8 | -3.1 | -2.4 | -2.0 | -3.5 | -2.8 | -3.1 | -2.4 | -2.0 |
| | Y=12H | -3.6 | -2.9 | -3.1 | -2.5 | -2.1 | -3.6 | -2.9 | -3.1 | -2.5 | -2.1 |
| X=4H | Y=2H | -3.3 | -2.5 | -2.9 | -2.2 | -1.8 | -3.3 | -2.5 | -2.9 | -2.2 | -1.8 |
| | Y=3H | -3.6 | -2.9 | -3.1 | -2.5 | -2.1 | -3.6 | -2.9 | -3.1 | -2.5 | -2.1 |
| | Y=4H | -3.7 | -3.1 | -3.2 | -2.7 | -2.2 | -3.7 | -3.1 | -3.2 | -2.7 | -2.2 |
| | Y=6H | -3.8 | -3.3 | -3.3 | -2.8 | -2.4 | -3.8 | -3.3 | -3.3 | -2.8 | -2.4 |
| | Y=8H | -3.9 | -3.4 | -3.4 | -3.0 | -2.5 | -3.9 | -3.4 | -3.4 | -3.0 | -2.5 |
| | Y=12H | -3.9 | -3.5 | -3.4 | -3.0 | -2.6 | -3.9 | -3.5 | -3.4 | -3.0 | -2.6 |
| X=8H | Y=4H | -3.9 | -3.4 | -3.4 | -3.0 | -2.5 | -3.9 | -3.4 | -3.4 | -3.0 | -2.5 |
| | Y=6H | -4.0 | -3.6 | -3.5 | -3.1 | -2.6 | -4.0 | -3.6 | -3.5 | -3.1 | -2.6 |
| | Y=8H | -4.1 | -3.7 | -3.5 | -3.2 | -2.7 | -4.1 | -3.7 | -3.5 | -3.2 | -2.7 |
| | Y=12H | -4.1 | -3.8 | -3.6 | -3.3 | -2.8 | -4.1 | -3.8 | -3.6 | -3.3 | -2.8 |
| X=12H | Y=4H | -3.9 | -3.5 | -3.4 | -3.0 | -2.6 | -3.9 | -3.5 | -3.4 | -3.0 | -2.6 |
| | Y=6H | -4.1 | -3.7 | -3.5 | -3.3 | -2.7 | -4.1 | -3.7 | -3.5 | -3.3 | -2.7 |
| | Y=8H | -4.1 | -3.8 | -3.6 | -3.3 | -2.8 | -4.1 | -3.8 | -3.6 | -3.3 | -2.8 |
| Variations with the objerver position at spacings | | | | | | | | | | | |
| S=1.0H | | 0.0/0.0 | | | | | 0.0/0.0 | | | | |
| S=1.5H | | 0.0/0.0 | | | | | 0.0/0.0 | | | | |
| S=2.0H | | 0.0/0.0 | | | | | 0.0/0.0 | | | | |
| Reduced UGR Table: | | | | | | | | | | | |
| Nordic Standard Table: | | 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 | 3406.29 | 3406.29 | 3406.29 | 3406.29 |
| γ 1.0 | 3447.24 | 3414.57 | 3319.94 | 3371.52 |
| γ 2.0 | 3419.85 | 3371.40 | 3205.72 | 3293.22 |
| γ 3.0 | 3342.55 | 3265.26 | 3051.73 | 3153.41 |
| γ 4.0 | 3234.58 | 3107.66 | 2848.38 | 2965.57 |
| γ 5.0 | 3081.63 | 2897.44 | 2606.95 | 2737.51 |
| γ 6.0 | 2884.55 | 2655.61 | 2349.46 | 2479.46 |
| γ 7.0 | 2648.24 | 2382.67 | 2080.73 | 2181.24 |
| γ 8.0 | 2386.73 | 2113.87 | 1804.53 | 1884.37 |
| γ 9.0 | 2105.44 | 1876.06 | 1534.31 | 1608.38 |
| γ 10.0 | 1836.91 | 1606.22 | 1295.65 | 1363.19 |
| γ 11.0 | 1592.07 | 1388.44 | 1095.26 | 1145.09 |
| γ 12.0 | 1374.93 | 1198.59 | 929.88 | 954.10 |
| γ 13.0 | 1188.69 | 1026.54 | 788.89 | 788.98 |
| γ 14.0 | 1030.12 | 875.14 | 668.07 | 650.97 |
| γ 15.0 | 892.49 | 743.36 | 565.13 | 537.47 |
| γ 16.0 | 773.01 | 627.45 | 475.81 | 445.65 |
| γ 17.0 | 669.94 | 528.84 | 401.66 | 371.54 |
| γ 18.0 | 578.35 | 445.73 | 339.67 | 312.01 |
| γ 19.0 | 500.29 | 376.82 | 287.60 | 263.67 |
| γ 20.0 | 432.82 | 320.62 | 244.56 | 224.39 |
| γ 21.0 | 375.45 | 274.33 | 208.20 | 191.91 |
| γ 22.0 | 325.61 | 235.76 | 177.12 | 164.77 |
| γ 23.0 | 281.25 | 203.19 | 150.84 | 141.48 |
| γ 24.0 | 242.05 | 175.11 | 128.55 | 122.00 |
| γ 25.0 | 208.15 | 151.51 | 109.36 | 105.06 |
| γ 26.0 | 179.05 | 131.01 | 93.19 | 89.84 |
| γ 27.0 | 153.52 | 112.60 | 79.55 | 76.51 |
| γ 28.0 | 131.49 | 97.01 | 67.54 | 65.15 |
| γ 29.0 | 112.57 | 84.72 | 57.73 | 55.63 |
| γ 30.0 | 96.34 | 71.60 | 50.02 | 48.01 |
| γ 31.0 | 82.43 | 64.83 | 43.69 | 41.99 |
| γ 32.0 | 71.00 | 59.24 | 38.58 | 36.97 |
| γ 33.0 | 61.77 | 52.91 | 33.99 | 32.91 |
| γ 34.0 | 54.21 | 49.74 | 30.03 | 29.08 |
| γ 35.0 | 47.75 | 40.23 | 26.42 | 25.97 |
| γ 36.0 | 42.20 | 33.50 | 23.07 | 23.01 |
| γ 37.0 | 37.53 | 29.42 | 20.27 | 20.37 |
| γ 38.0 | 33.25 | 26.04 | 17.98 | 18.31 |
| γ 39.0 | 29.64 | 23.11 | 16.01 | 16.65 |
| γ 40.0 | 26.65 | 20.57 | 14.41 | 15.27 |
| γ 41.0 | 23.80 | 18.38 | 13.08 | 14.14 |
| γ 42.0 | 21.42 | 16.54 | 11.99 | 13.17 |
| γ 43.0 | 19.48 | 15.04 | 11.07 | 12.37 |
| γ 44.0 | 17.79 | 13.78 | 10.29 | 11.68 |
| γ 45.0 | 16.33 | 12.73 | 9.64 | 11.03 |
| γ 46.0 | 15.05 | 11.65 | 9.07 | 10.44 |

## Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---|---|---|---|---|
| γ 47.0 | 13.94 | 10.77 | 8.53 | 9.90 |
| γ 48.0 | 12.93 | 9.94 | 8.01 | 9.37 |
| γ 49.0 | 12.01 | 9.15 | 7.45 | 8.85 |
| γ 50.0 | 11.08 | 8.35 | 6.93 | 8.29 |
| γ 51.0 | 10.07 | 7.60 | 6.50 | 7.82 |
| γ 52.0 | 9.23 | 6.98 | 6.08 | 7.38 |
| γ 53.0 | 8.56 | 6.42 | 5.68 | 6.97 |
| γ 54.0 | 7.98 | 5.92 | 5.36 | 6.59 |
| γ 55.0 | 7.44 | 5.48 | 5.03 | 6.25 |
| γ 56.0 | 6.97 | 5.09 | 4.72 | 5.92 |
| γ 57.0 | 6.52 | 4.73 | 4.43 | 5.61 |
| γ 58.0 | 6.11 | 4.41 | 4.16 | 5.32 |
| γ 59.0 | 5.73 | 4.11 | 3.90 | 5.03 |
| γ 60.0 | 5.38 | 3.84 | 3.65 | 4.75 |
| γ 61.0 | 5.05 | 3.57 | 3.39 | 4.48 |
| γ 62.0 | 4.73 | 3.31 | 3.12 | 4.19 |
| γ 63.0 | 4.43 | 3.05 | 2.88 | 3.91 |
| γ 64.0 | 4.12 | 2.78 | 2.62 | 3.64 |
| γ 65.0 | 3.83 | 2.53 | 2.35 | 3.37 |
| γ 66.0 | 3.56 | 2.27 | 2.08 | 3.07 |
| γ 67.0 | 3.29 | 2.01 | 1.81 | 2.78 |
| γ 68.0 | 3.00 | 1.76 | 1.55 | 2.47 |
| γ 69.0 | 2.71 | 1.50 | 1.33 | 2.22 |
| γ 70.0 | 2.43 | 1.33 | 1.11 | 1.96 |
| γ 71.0 | 2.19 | 1.04 | 0.89 | 1.72 |
| γ 72.0 | 1.95 | 0.86 | 0.69 | 1.49 |
| γ 73.0 | 1.73 | 0.58 | 0.49 | 1.28 |
| γ 74.0 | 1.51 | 0.40 | 0.31 | 1.07 |
| γ 75.0 | 1.31 | 0.34 | 0.15 | 0.88 |
| γ 76.0 | 1.11 | 0.28 | 0.00 | 0.69 |
| γ 77.0 | 0.92 | 0.23 | 0.00 | 0.51 |
| γ 78.0 | 0.74 | 0.17 | 0.00 | 0.34 |
| γ 79.0 | 0.57 | 0.11 | 0.00 | 0.19 |
| γ 80.0 | 0.40 | 0.06 | 0.00 | 0.04 |
| γ 81.0 | 0.24 | 0.00 | 0.00 | 0.00 |
| γ 82.0 | 0.09 | 0.00 | 0.00 | 0.00 |
| γ 83.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 84.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 85.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 86.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 87.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 88.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 89.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 90.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 91.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 92.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| γ 93.0 | 0.00 | 0.00 | 0.00 | 0.00 |

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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 |

## 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 | 0.01 | 0.00 |
| γ 143.0 | 0.00 | 0.00 | 0.17 | 0.06 |
| γ 144.0 | 0.00 | 0.00 | 0.30 | 0.20 |
| γ 145.0 | 0.00 | 0.00 | 0.45 | 0.35 |
| γ 146.0 | 0.00 | 0.00 | 0.57 | 0.48 |
| γ 147.0 | 0.04 | 0.00 | 0.69 | 0.60 |
| γ 148.0 | 0.18 | 0.14 | 0.81 | 0.72 |
| γ 149.0 | 0.31 | 0.26 | 0.91 | 0.83 |
| γ 150.0 | 0.43 | 0.38 | 1.00 | 0.92 |
| γ 151.0 | 0.54 | 0.49 | 1.09 | 1.00 |
| γ 152.0 | 0.66 | 0.58 | 1.15 | 1.08 |
| γ 153.0 | 0.76 | 0.66 | 1.22 | 1.13 |
| γ 154.0 | 0.86 | 0.75 | 1.27 | 1.19 |
| γ 155.0 | 0.93 | 0.80 | 1.32 | 1.24 |
| γ 156.0 | 1.01 | 0.86 | 1.37 | 1.26 |
| γ 157.0 | 1.08 | 0.91 | 1.39 | 1.30 |
| γ 158.0 | 1.12 | 0.95 | 1.43 | 1.32 |
| γ 159.0 | 1.19 | 0.99 | 1.46 | 1.34 |
| γ 160.0 | 1.23 | 1.02 | 1.47 | 1.35 |
| γ 161.0 | 1.26 | 1.06 | 1.48 | 1.37 |
| γ 162.0 | 1.29 | 1.09 | 1.49 | 1.37 |
| γ 163.0 | 1.33 | 1.13 | 1.50 | 1.37 |
| γ 164.0 | 1.36 | 1.14 | 1.49 | 1.37 |
| γ 165.0 | 1.37 | 1.17 | 1.49 | 1.38 |
| γ 166.0 | 1.38 | 1.19 | 1.48 | 1.37 |
| γ 167.0 | 1.40 | 1.21 | 1.47 | 1.35 |
| γ 168.0 | 1.40 | 1.22 | 1.45 | 1.34 |
| γ 169.0 | 1.39 | 1.22 | 1.41 | 1.33 |
| γ 170.0 | 1.39 | 1.23 | 1.39 | 1.30 |
| γ 171.0 | 1.36 | 1.21 | 1.35 | 1.27 |
| γ 172.0 | 1.35 | 1.18 | 1.32 | 1.24 |
| γ 173.0 | 1.32 | 1.15 | 1.29 | 1.21 |
| γ 174.0 | 1.29 | 1.13 | 1.25 | 1.18 |
| γ 175.0 | 1.26 | 1.10 | 1.22 | 1.16 |
| γ 176.0 | 1.23 | 1.06 | 1.19 | 1.14 |
| γ 177.0 | 1.20 | 1.05 | 1.18 | 1.13 |
| γ 178.0 | 1.18 | 1.05 | 1.18 | 1.13 |
| γ 179.0 | 1.17 | 1.06 | 1.19 | 1.14 |
| γ 180.0 | 1.15 | 1.15 | 1.15 | 1.15 |