**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel: 02 9381 8383
E-mail:sales@havitcommercial.com.au

# Indoor Luminaire Photometric Data

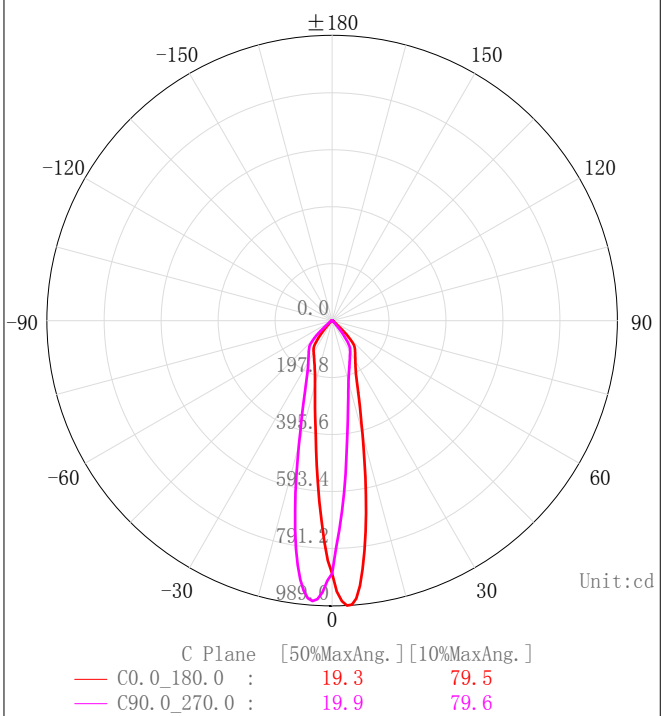
## Description Information

| | | | |
|---|---|---|---|
| Luminary Name: HCP-806024-4000K RA90 15D | | 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 |

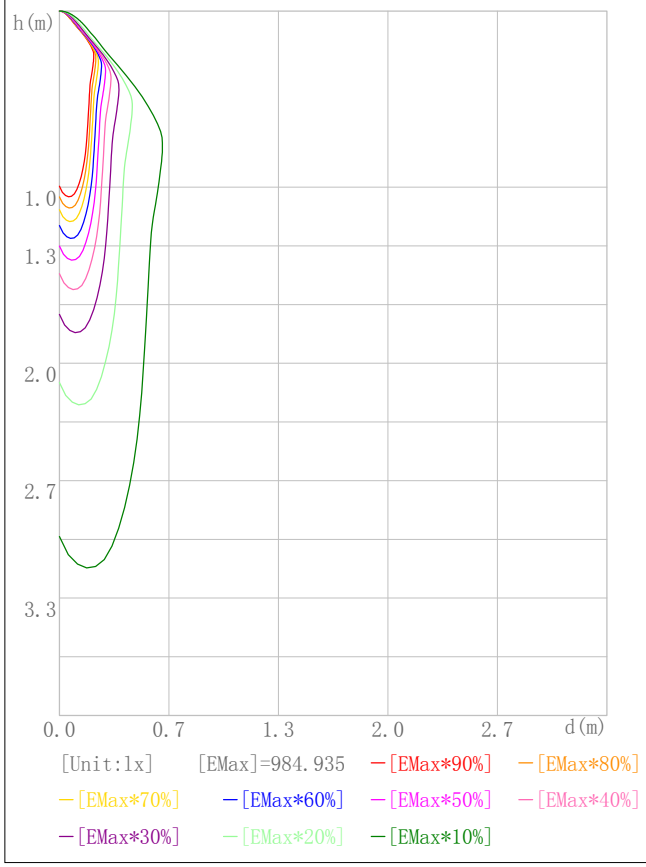
## Character Parameter

| Lamp Speciality Parameter | Luminaire Speciality Parameter | |
|---|---|---|
| Rated Flux(lm): 364.140 | Luminary Flux(lm): 364.141 | Field Angle(10%Imax): 79.5(° ) |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 363.476lm 99.82% |
| Rated Voltage(V): | Luminary EER(lm/W): 71.177 | Up Lumens&Percent: 0.664lm 0.18% |
| Tested Power(W): 5.116 | Max.Candela(cd): 988.996 | S/MH: C0_a180=0.364 C90_270=0.369 |
| Lamps' Inside: 1 | Max Cand@Ang.(° ): C=0.0 γ=3.0 | CIE Type: Semi-Direct |
| Tested Electrics(V,A,pf):240.3,0.025,0.824 | Beam Angle(50%Imax): 19.3(° ) | ErP Φuse(90° ): 306.587lm |
| Lamp Size(W*L*H):0.050m*0.000m*0.062m | Left=-6.2° ,Right=13.1° | IRF(%): 521.195 |

## C Plane Distribution Diagram



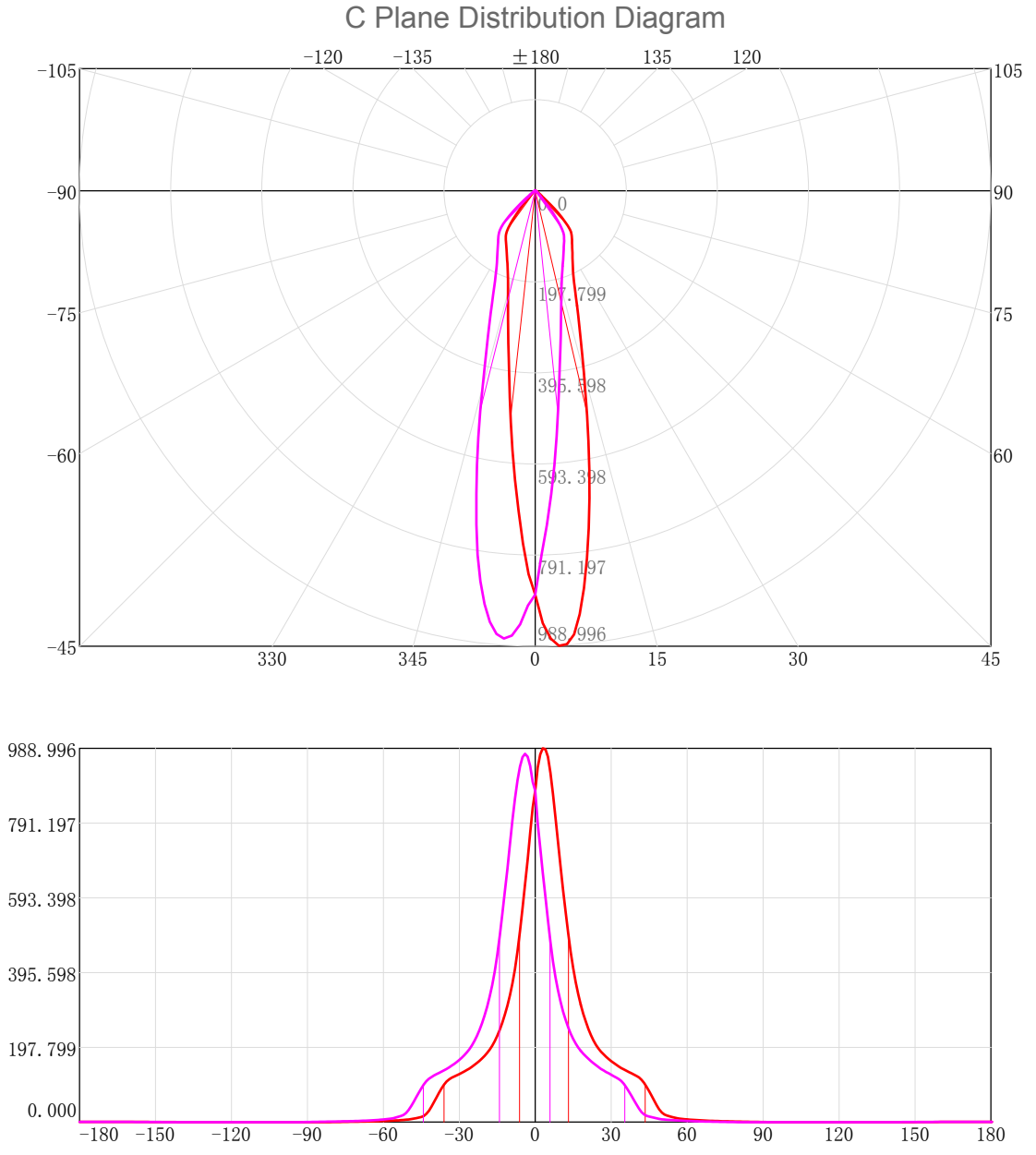

## C0 Space ISO Illuminance Curve



**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# 2D Plane Light Intensity Distribution Curve

| | | |
|---|---|---|
| Lum.Name: HCP-806024-4000K RA90 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |



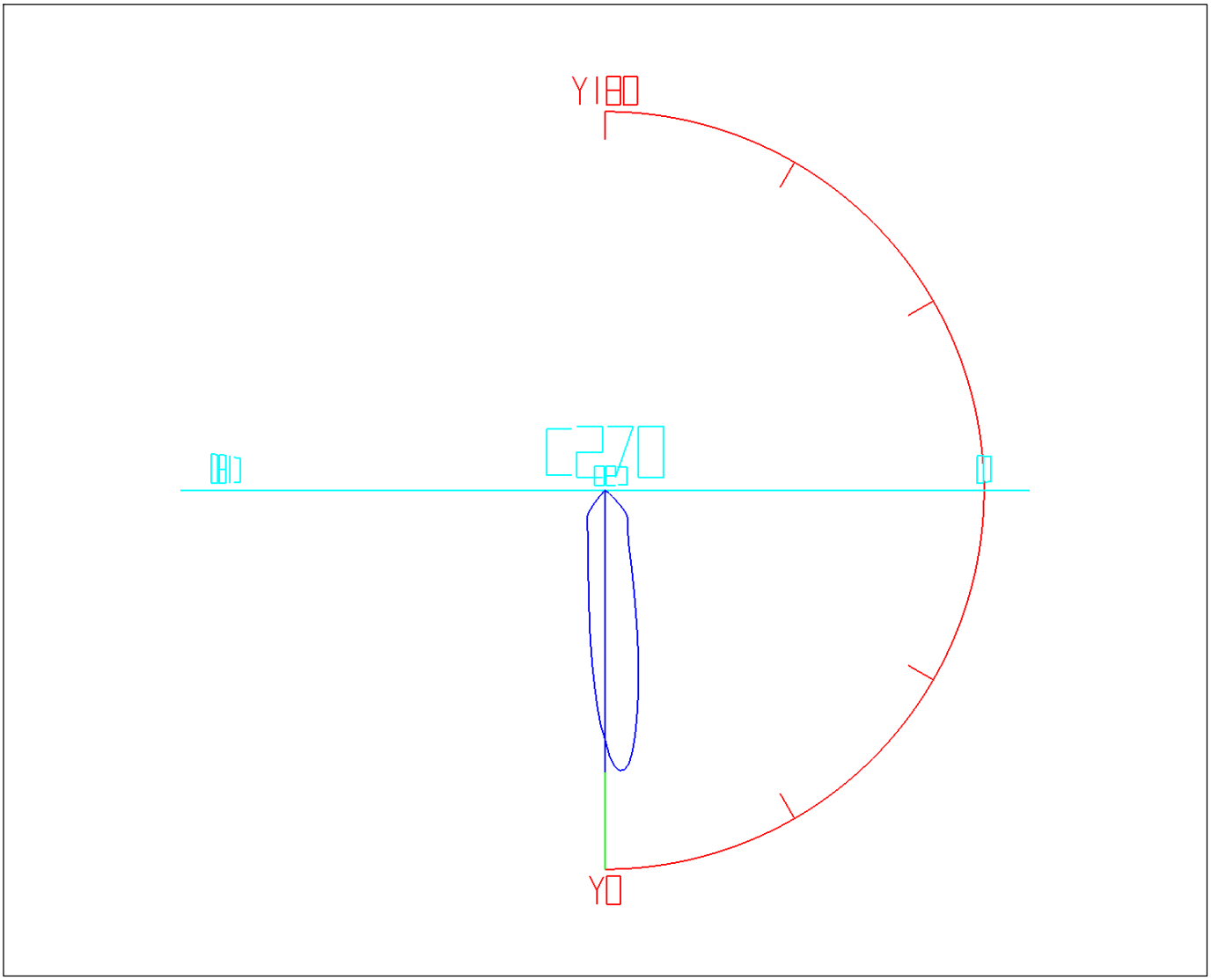

| C Plane | [50%MaxAng.] | [10%MaxAng.] | Unit:cd |
|---|---|---|---|
| C0.0_180.0 : | 19.3 | 79.5 | |
| C90.0_270.0 : | 19.9 | 79.6 | |

**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# 3D Light Intensity Distribution Modal

| | | |
|---|---|---|
| Lum.Name: HCP-806024-4000K RA90 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

3D Light Intensity Distribution Modal




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

**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# 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 | 0.83 | 0.83 | 0.23 | 0.23 | 47.0-48.0 | 2.66 | 345.72 | 0.73 | 94.94 |
| 1.0-2.0 | 2.46 | 3.30 | 0.68 | 0.91 | 48.0-49.0 | 2.16 | 347.88 | 0.59 | 95.54 |
| 2.0-3.0 | 4.02 | 7.31 | 1.10 | 2.01 | 49.0-50.0 | 1.72 | 349.60 | 0.47 | 96.01 |
| 3.0-4.0 | 5.44 | 12.75 | 1.49 | 3.50 | 50.0-51.0 | 1.37 | 350.97 | 0.38 | 96.38 |
| 4.0-5.0 | 6.69 | 19.44 | 1.84 | 5.34 | 51.0-52.0 | 1.14 | 352.12 | 0.31 | 96.70 |
| 5.0-6.0 | 7.73 | 27.16 | 2.12 | 7.46 | 52.0-53.0 | 1.00 | 353.11 | 0.27 | 96.97 |
| 6.0-7.0 | 8.53 | 35.69 | 2.34 | 9.80 | 53.0-54.0 | 0.90 | 354.01 | 0.25 | 97.22 |
| 7.0-8.0 | 9.12 | 44.82 | 2.51 | 12.31 | 54.0-55.0 | 0.81 | 354.82 | 0.22 | 97.44 |
| 8.0-9.0 | 9.54 | 54.36 | 2.62 | 14.93 | 55.0-56.0 | 0.72 | 355.54 | 0.20 | 97.64 |
| 9.0-10.0 | 9.79 | 64.15 | 2.69 | 17.62 | 56.0-57.0 | 0.65 | 356.19 | 0.18 | 97.82 |
| 10.0-11.0 | 9.88 | 74.03 | 2.71 | 20.33 | 57.0-58.0 | 0.59 | 356.78 | 0.16 | 97.98 |
| 11.0-12.0 | 9.85 | 83.88 | 2.71 | 23.04 | 58.0-59.0 | 0.54 | 357.32 | 0.15 | 98.13 |
| 12.0-13.0 | 9.74 | 93.62 | 2.67 | 25.71 | 59.0-60.0 | 0.51 | 357.83 | 0.14 | 98.27 |
| 13.0-14.0 | 9.55 | 103.17 | 2.62 | 28.33 | 60.0-61.0 | 0.47 | 358.30 | 0.13 | 98.39 |
| 14.0-15.0 | 9.33 | 112.50 | 2.56 | 30.90 | 61.0-62.0 | 0.44 | 358.73 | 0.12 | 98.51 |
| 15.0-16.0 | 9.11 | 121.61 | 2.50 | 33.40 | 62.0-63.0 | 0.41 | 359.14 | 0.11 | 98.63 |
| 16.0-17.0 | 8.92 | 130.53 | 2.45 | 35.85 | 63.0-64.0 | 0.38 | 359.52 | 0.10 | 98.73 |
| 17.0-18.0 | 8.76 | 139.29 | 2.40 | 38.25 | 64.0-65.0 | 0.35 | 359.87 | 0.10 | 98.83 |
| 18.0-19.0 | 8.61 | 147.90 | 2.37 | 40.62 | 65.0-66.0 | 0.33 | 360.20 | 0.09 | 98.92 |
| 19.0-20.0 | 8.48 | 156.38 | 2.33 | 42.95 | 66.0-67.0 | 0.31 | 360.50 | 0.08 | 99.00 |
| 20.0-21.0 | 8.36 | 164.74 | 2.29 | 45.24 | 67.0-68.0 | 0.28 | 360.79 | 0.08 | 99.08 |
| 21.0-22.0 | 8.25 | 172.98 | 2.27 | 47.51 | 68.0-69.0 | 0.26 | 361.05 | 0.07 | 99.15 |
| 22.0-23.0 | 8.16 | 181.14 | 2.24 | 49.75 | 69.0-70.0 | 0.25 | 361.30 | 0.07 | 99.22 |
| 23.0-24.0 | 8.08 | 189.23 | 2.22 | 51.97 | 70.0-71.0 | 0.23 | 361.53 | 0.06 | 99.28 |
| 24.0-25.0 | 8.02 | 197.25 | 2.20 | 54.17 | 71.0-72.0 | 0.21 | 361.74 | 0.06 | 99.34 |
| 25.0-26.0 | 7.98 | 205.23 | 2.19 | 56.36 | 72.0-73.0 | 0.20 | 361.93 | 0.05 | 99.39 |
| 26.0-27.0 | 7.95 | 213.18 | 2.18 | 58.54 | 73.0-74.0 | 0.18 | 362.12 | 0.05 | 99.44 |
| 27.0-28.0 | 7.94 | 221.13 | 2.18 | 60.73 | 74.0-75.0 | 0.17 | 362.28 | 0.05 | 99.49 |
| 28.0-29.0 | 7.94 | 229.06 | 2.18 | 62.91 | 75.0-76.0 | 0.15 | 362.44 | 0.04 | 99.53 |
| 29.0-30.0 | 7.94 | 237.00 | 2.18 | 65.09 | 76.0-77.0 | 0.14 | 362.58 | 0.04 | 99.57 |
| 30.0-31.0 | 7.94 | 244.94 | 2.18 | 67.26 | 77.0-78.0 | 0.13 | 362.71 | 0.04 | 99.61 |
| 31.0-32.0 | 7.92 | 252.86 | 2.18 | 69.44 | 78.0-79.0 | 0.11 | 362.82 | 0.03 | 99.64 |
| 32.0-33.0 | 7.91 | 260.77 | 2.17 | 71.61 | 79.0-80.0 | 0.10 | 362.92 | 0.03 | 99.67 |
| 33.0-34.0 | 7.86 | 268.63 | 2.16 | 73.77 | 80.0-81.0 | 0.09 | 363.01 | 0.02 | 99.69 |
| 34.0-35.0 | 7.76 | 276.39 | 2.13 | 75.90 | 81.0-82.0 | 0.08 | 363.09 | 0.02 | 99.71 |
| 35.0-36.0 | 7.59 | 283.98 | 2.08 | 77.99 | 82.0-83.0 | 0.07 | 363.16 | 0.02 | 99.73 |
| 36.0-37.0 | 7.34 | 291.33 | 2.02 | 80.00 | 83.0-84.0 | 0.06 | 363.23 | 0.02 | 99.75 |
| 37.0-38.0 | 7.04 | 298.37 | 1.93 | 81.94 | 84.0-85.0 | 0.06 | 363.29 | 0.02 | 99.77 |
| 38.0-39.0 | 6.69 | 305.06 | 1.84 | 83.77 | 85.0-86.0 | 0.05 | 363.34 | 0.01 | 99.78 |
| 39.0-40.0 | 6.30 | 311.35 | 1.73 | 85.50 | 86.0-87.0 | 0.04 | 363.38 | 0.01 | 99.79 |
| 40.0-41.0 | 5.88 | 317.23 | 1.61 | 87.12 | 87.0-88.0 | 0.04 | 363.42 | 0.01 | 99.80 |
| 41.0-42.0 | 5.43 | 322.66 | 1.49 | 88.61 | 88.0-89.0 | 0.03 | 363.45 | 0.01 | 99.81 |
| 42.0-43.0 | 4.98 | 327.64 | 1.37 | 89.98 | 89.0-90.0 | 0.02 | 363.48 | 0.01 | 99.82 |
| 43.0-44.0 | 4.53 | 332.17 | 1.24 | 91.22 | 90.0-91.0 | 0.02 | 363.49 | 0.00 | 99.82 |
| 44.0-45.0 | 4.09 | 336.26 | 1.12 | 92.34 | 91.0-92.0 | 0.01 | 363.50 | 0.00 | 99.82 |
| 45.0-46.0 | 3.64 | 339.90 | 1.00 | 93.34 | 92.0-93.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 46.0-47.0 | 3.16 | 343.06 | 0.87 | 94.21 | 93.0-94.0 | 0.00 | 363.50 | 0.00 | 99.82 |

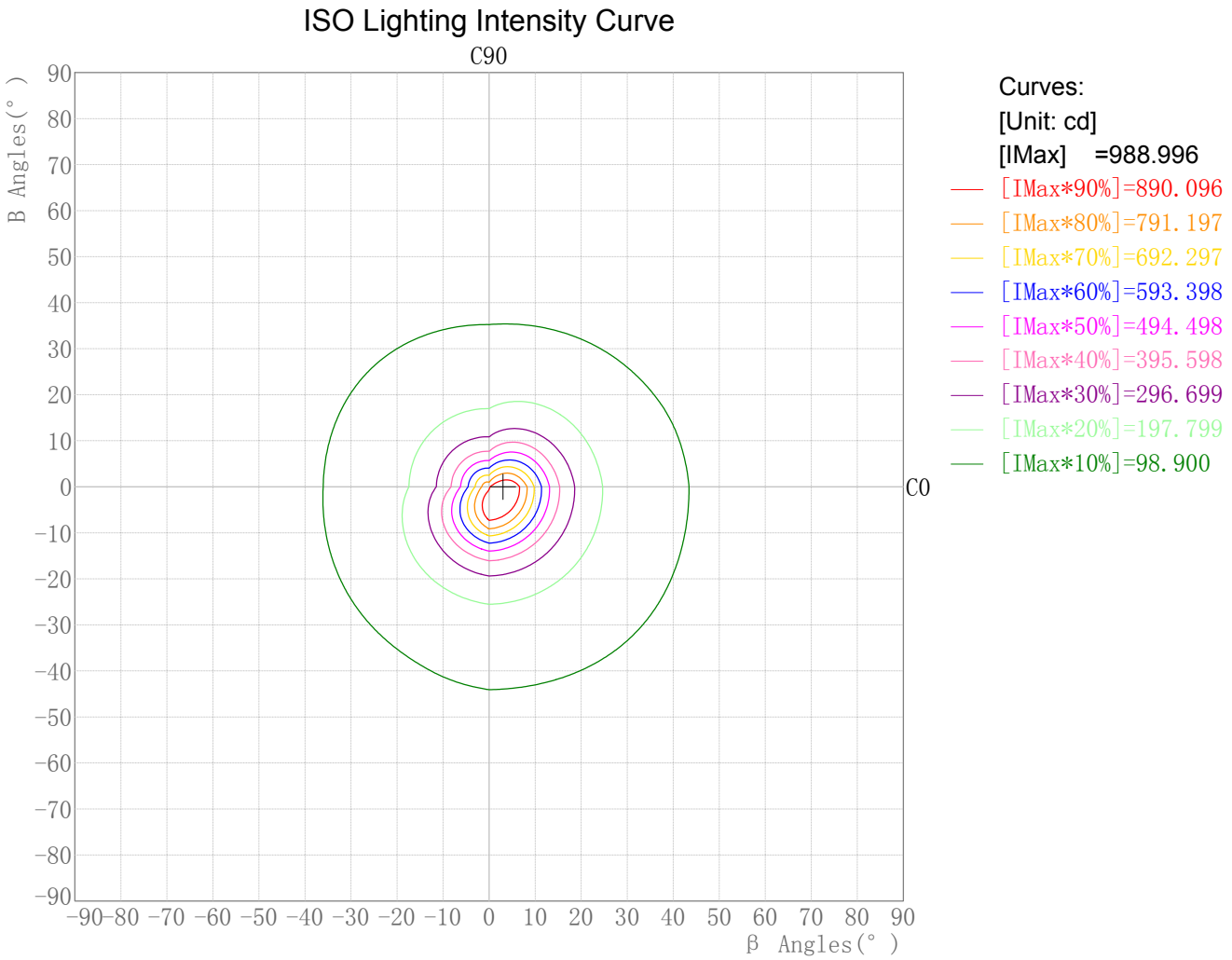
# Zonal Flux Tabulation - (Cont.)

| Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|---|---|---|---|---|
| 94.0-95.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 95.0-96.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 96.0-97.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 97.0-98.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 98.0-99.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 99.0-100.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 100.0-101.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 101.0-102.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 102.0-103.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 103.0-104.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 104.0-105.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 105.0-106.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 106.0-107.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 107.0-108.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 108.0-109.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 109.0-110.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 110.0-111.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 111.0-112.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 112.0-113.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 113.0-114.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 114.0-115.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 115.0-116.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 116.0-117.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 117.0-118.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 118.0-119.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 119.0-120.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 120.0-121.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 121.0-122.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 122.0-123.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 123.0-124.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 124.0-125.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 125.0-126.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 126.0-127.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 127.0-128.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 128.0-129.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 129.0-130.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 130.0-131.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 131.0-132.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 132.0-133.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 133.0-134.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 134.0-135.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 135.0-136.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 136.0-137.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 137.0-138.0 | 0.00 | 363.50 | 0.00 | 99.82 |
| 138.0-139.0 | 0.00 | 363.50 | 0.00 | 99.83 |
| 139.0-140.0 | 0.00 | 363.51 | 0.00 | 99.83 |
| 140.0-141.0 | 0.00 | 363.51 | 0.00 | 99.83 |
| 141.0-142.0 | 0.00 | 363.51 | 0.00 | 99.83 |
| 142.0-143.0 | 0.01 | 363.52 | 0.00 | 99.83 |
| 143.0-144.0 | 0.01 | 363.52 | 0.00 | 99.83 |
| 144.0-145.0 | 0.01 | 363.53 | 0.00 | 99.83 |
| 145.0-146.0 | 0.01 | 363.54 | 0.00 | 99.84 |
| 146.0-147.0 | 0.01 | 363.56 | 0.00 | 99.84 |
| 147.0-148.0 | 0.01 | 363.57 | 0.00 | 99.84 |
| 148.0-149.0 | 0.02 | 363.59 | 0.00 | 99.85 |
| 149.0-150.0 | 0.02 | 363.60 | 0.00 | 99.85 |
| 150.0-151.0 | 0.02 | 363.62 | 0.01 | 99.86 |
| 151.0-152.0 | 0.02 | 363.64 | 0.01 | 99.86 |
| 152.0-153.0 | 0.02 | 363.67 | 0.01 | 99.87 |
| 153.0-154.0 | 0.02 | 363.69 | 0.01 | 99.88 |
| 154.0-155.0 | 0.02 | 363.71 | 0.01 | 99.88 |
| 155.0-156.0 | 0.02 | 363.74 | 0.01 | 99.89 |
| 156.0-157.0 | 0.02 | 363.76 | 0.01 | 99.90 |
| 157.0-158.0 | 0.02 | 363.79 | 0.01 | 99.90 |
| 158.0-159.0 | 0.02 | 363.81 | 0.01 | 99.91 |
| 159.0-160.0 | 0.03 | 363.84 | 0.01 | 99.92 |
| 160.0-161.0 | 0.02 | 363.86 | 0.01 | 99.92 |
| 161.0-162.0 | 0.02 | 363.89 | 0.01 | 99.93 |
| 162.0-163.0 | 0.02 | 363.91 | 0.01 | 99.94 |
| 163.0-164.0 | 0.02 | 363.93 | 0.01 | 99.94 |
| 164.0-165.0 | 0.02 | 363.96 | 0.01 | 99.95 |
| 165.0-166.0 | 0.02 | 363.98 | 0.01 | 99.96 |
| 166.0-167.0 | 0.02 | 364.00 | 0.01 | 99.96 |
| 167.0-168.0 | 0.02 | 364.02 | 0.01 | 99.97 |
| 168.0-169.0 | 0.02 | 364.04 | 0.01 | 99.97 |
| 169.0-170.0 | 0.02 | 364.06 | 0.00 | 99.98 |
| 170.0-171.0 | 0.02 | 364.07 | 0.00 | 99.98 |
| 171.0-172.0 | 0.01 | 364.09 | 0.00 | 99.99 |
| 172.0-173.0 | 0.01 | 364.10 | 0.00 | 99.99 |
| 173.0-174.0 | 0.01 | 364.11 | 0.00 | 99.99 |
| 174.0-175.0 | 0.01 | 364.12 | 0.00 | 99.99 |
| 175.0-176.0 | 0.01 | 364.13 | 0.00 | 100.00 |
| 176.0-177.0 | 0.01 | 364.13 | 0.00 | 100.00 |
| 177.0-178.0 | 0.00 | 364.14 | 0.00 | 100.00 |
| 178.0-179.0 | 0.00 | 364.14 | 0.00 | 100.00 |
| 179.0-180.0 | 0.00 | 364.14 | 0.00 | 100.00 |

**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# Rectangle ISO Lighting Intensity Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-806024-4000K RA90 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |



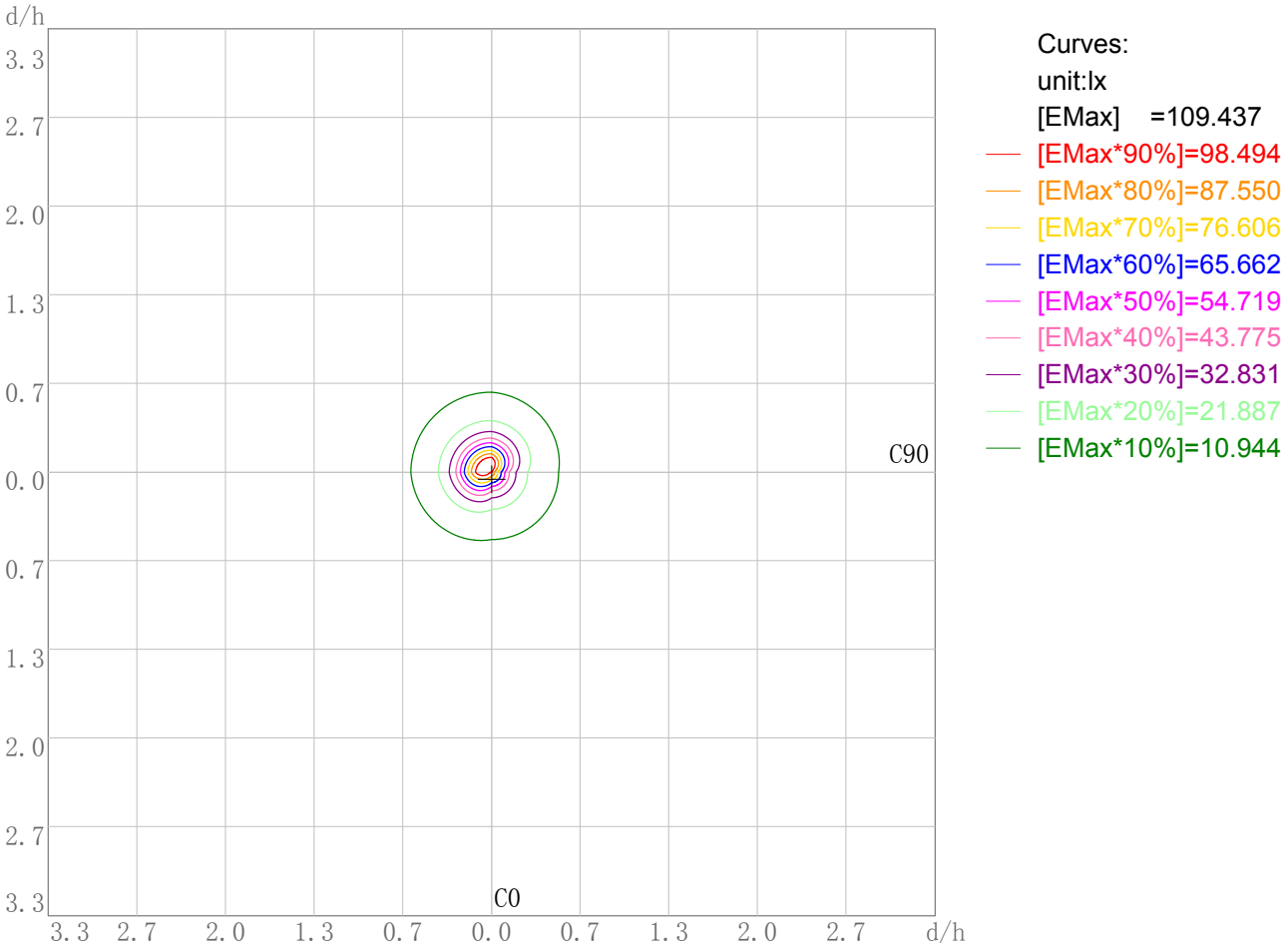

Maximum Light Intensity(cd): 989.00
Maximum Cand.@Angle: H=3.0°,V=0.0°

**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# Plane ISO-Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-806024-4000K RA90 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

## Plane ISO-Illuminance Curve



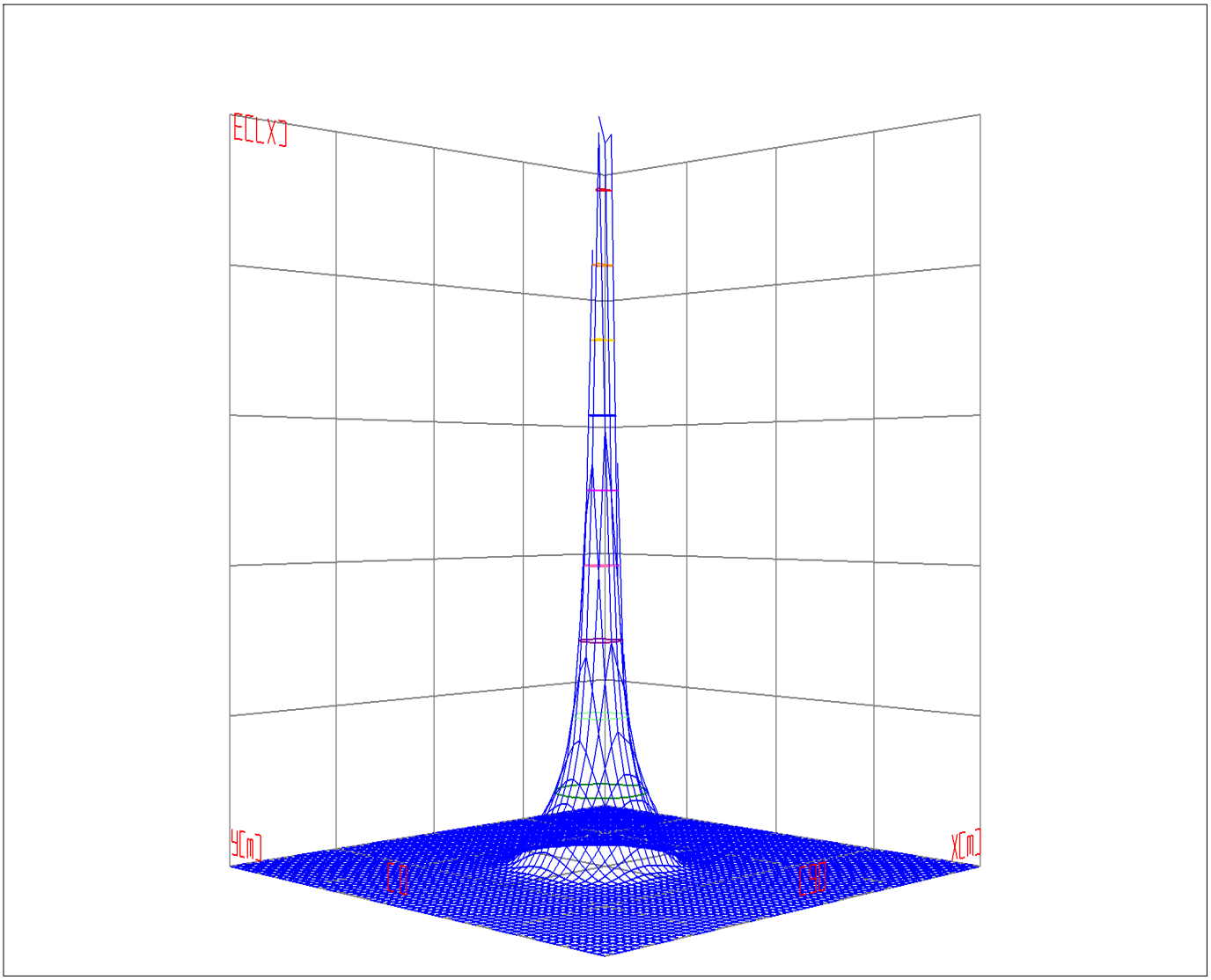

Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 109.44
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.1

**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# 3D Plane ISO Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-806024-4000K RA90 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

## 3D Plane Illuminance Modal



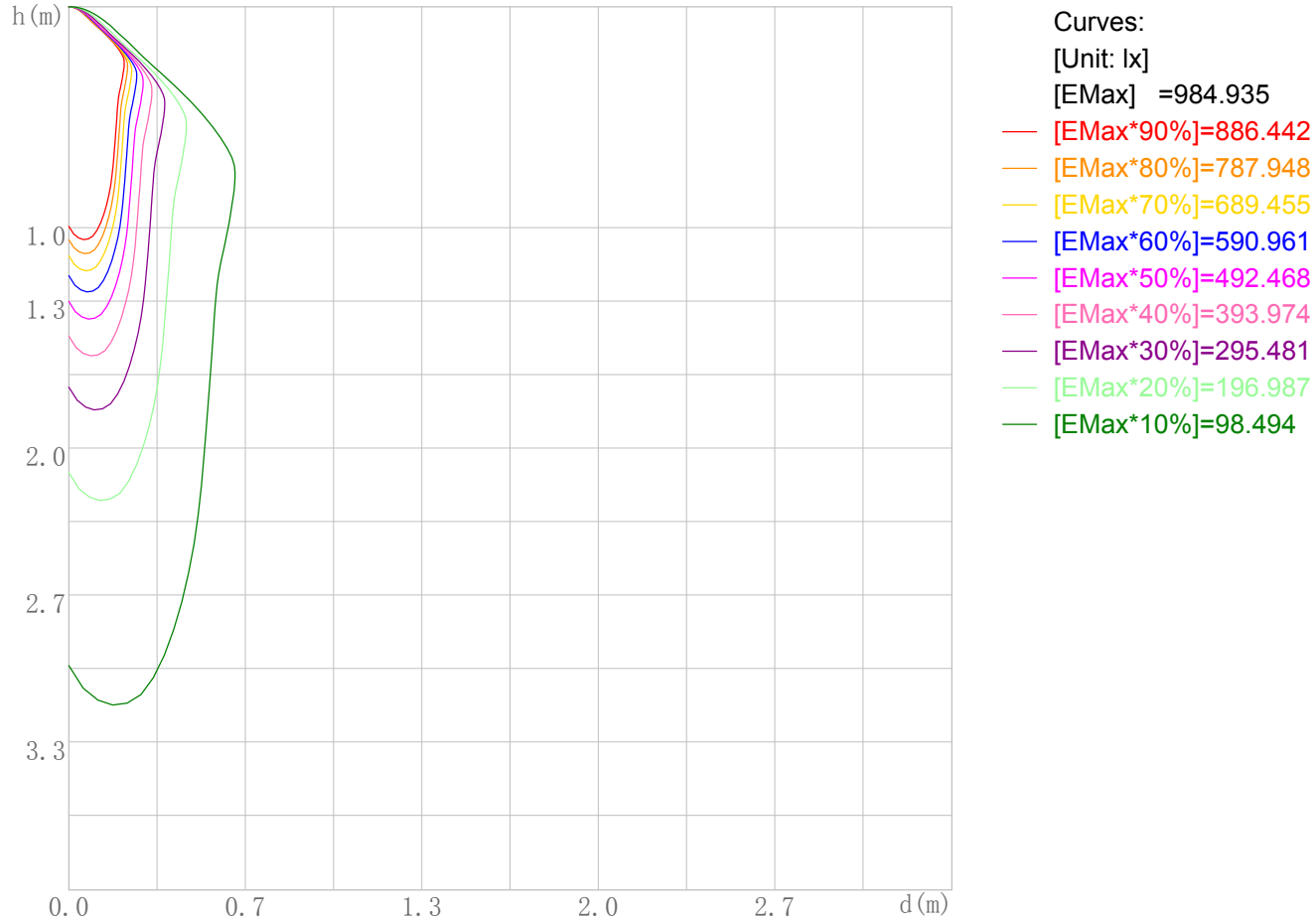

Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# Space ISO Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-806024-4000K RA90 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

## Space ISO Illuminance Curve

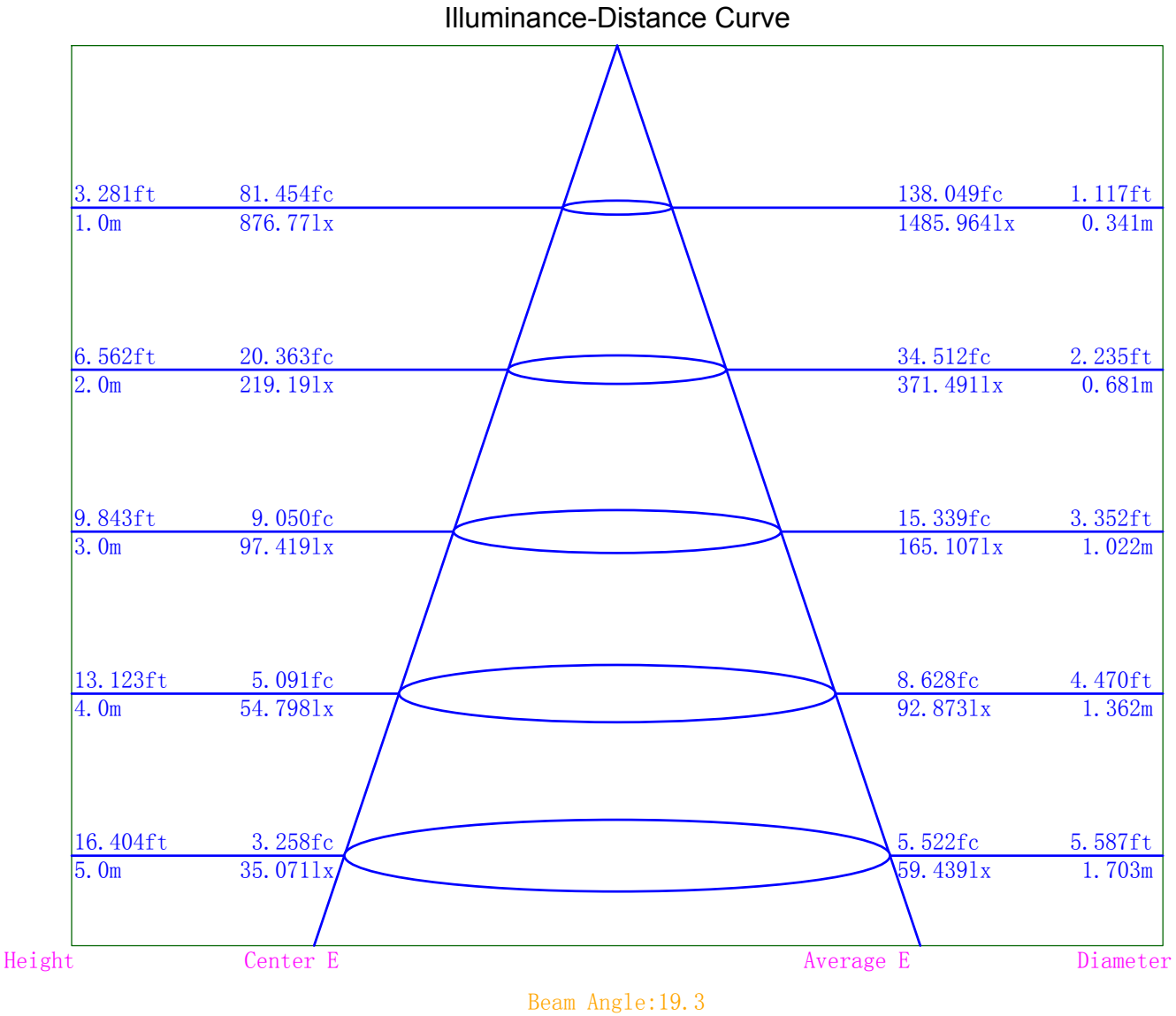



Space Plane Maximum Illuminance and @Angle:984.94lx,3.0deg
Plane Maximum Lighting Intensity and @Angle:988.996cd,0eg

**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# Illuminance-Distance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-806024-4000K RA90 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |



**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# Indoor Luminance Limiting Curves

| | | |
|---|---|---|
| Lum.Name: HCP-806024-4000K RA90 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

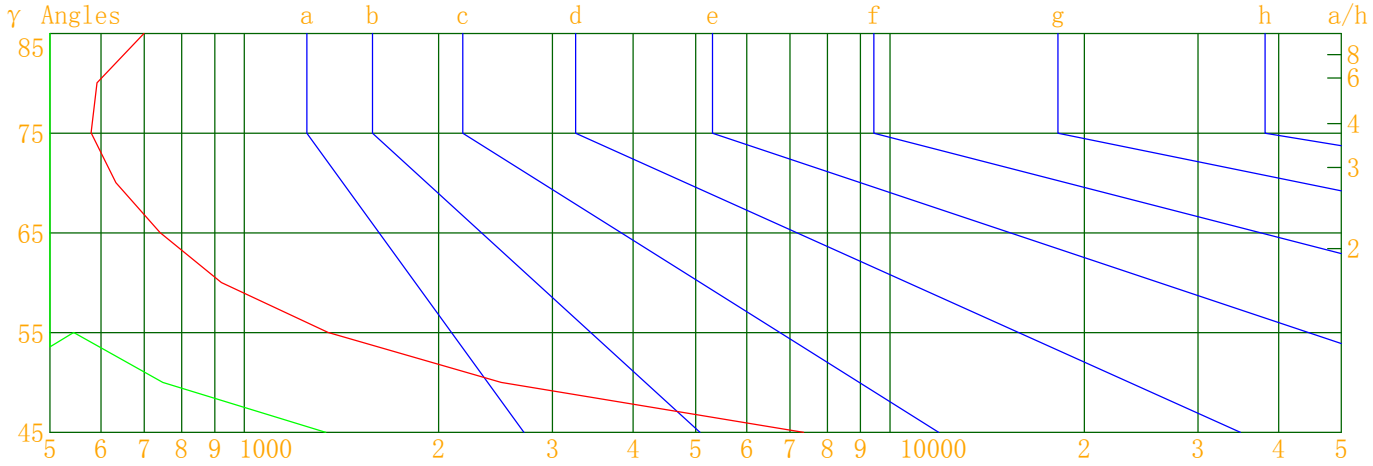
Glare Grade Table

| 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 | 7349 | 2500 | 1349 | 921 | 741 | 633 | 579 | 591 | 699 |
| C90 | 1337 | 748 | 544 | 407 | 313 | 236 | 160 | 47 | 0 |

Luminance Limiting Curve

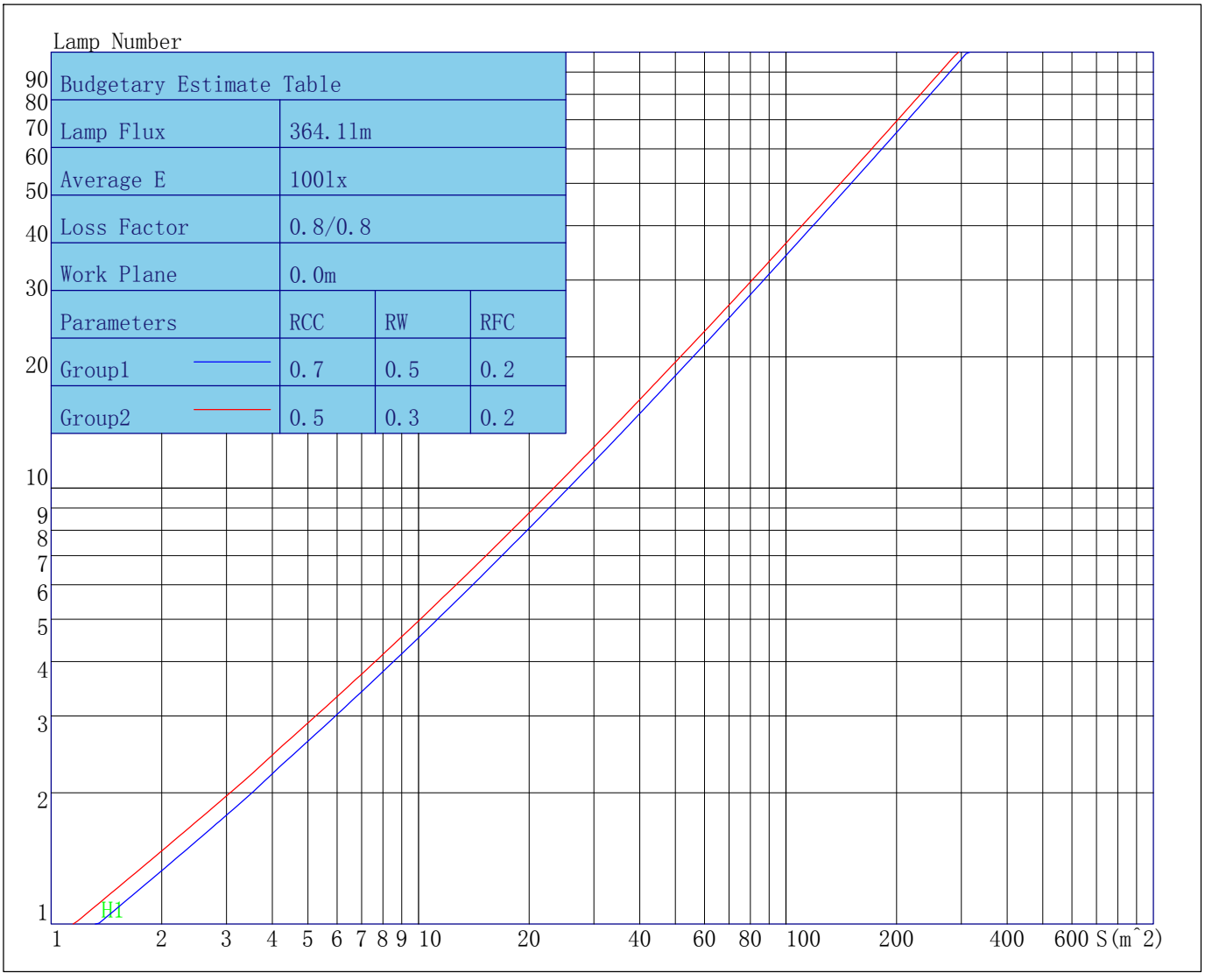



Luminous Size: Length(m)=0.000 Width(m)=-0.050 Height(m)=0.062 Area(m^2)=0.015708
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# Indoor Budgetary Estimate Table

| | | |
|---|---|---|
| Lum.Name: HCP-806024-4000K RA90 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |




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

**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# Indoor Coefficient of Utilization Table

| | | |
|---|---|---|
| Lum.Name: HCP-806024-4000K RA90 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

| 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 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 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 | 96 | 91 | 86 | 100 | 94 | 90 | 86 | 92 | 88 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 |
| 4 | 97 | 89 | 84 | 79 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 |
| 5 | 92 | 84 | 78 | 73 | 90 | 83 | 77 | 73 | 81 | 76 | 72 | 79 | 75 | 72 | 78 | 74 | 71 | 70 |
| 6 | 88 | 79 | 73 | 68 | 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 | 80 | 70 | 64 | 60 | 78 | 70 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 59 | 66 | 62 | 59 | 58 |
| 9 | 76 | 66 | 61 | 57 | 75 | 66 | 60 | 57 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 55 |
| 10 | 73 | 63 | 57 | 54 | 72 | 63 | 57 | 54 | 62 | 57 | 53 | 61 | 57 | 53 | 60 | 56 | 53 | 52 |

**HAVIT COMMERCIAL**
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

# Unified Glare Rating Table

| | | |
|---|---|---|
| Lum.Name: HCP-806024-4000K RA90 15D | Lum.Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Department |
| Manufacture: Havit Commercial | Test Machine:GON-2000 | Test Date: 2020/09/15 |

## 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 | 14.8 | 16.0 | 15.1 | 16.3 | 16.6 | 10.6 | 11.8 | 11.0 | 12.1 | 12.4 |
| | Y=3H | 14.7 | 15.7 | 15.0 | 16.1 | 16.4 | 10.5 | 11.5 | 10.8 | 11.9 | 12.2 |
| | Y=4H | 14.6 | 15.6 | 15.0 | 16.0 | 16.4 | 10.4 | 11.4 | 10.8 | 11.8 | 12.1 |
| | Y=6H | 14.5 | 15.5 | 15.0 | 15.9 | 16.3 | 10.3 | 11.2 | 10.7 | 11.6 | 12.0 |
| | Y=8H | 14.5 | 15.4 | 14.9 | 15.8 | 16.2 | 10.2 | 11.1 | 10.7 | 11.5 | 11.9 |
| | Y=12H | 14.5 | 15.4 | 14.9 | 15.7 | 16.2 | 10.2 | 11.0 | 10.6 | 11.4 | 11.9 |
| X=4H | Y=2H | 14.5 | 15.5 | 14.9 | 15.9 | 16.3 | 10.4 | 11.4 | 10.8 | 11.8 | 12.1 |
| | Y=3H | 14.4 | 15.3 | 14.8 | 15.7 | 16.1 | 10.3 | 11.1 | 10.7 | 11.5 | 12.0 |
| | Y=4H | 14.4 | 15.2 | 14.8 | 15.6 | 16.1 | 10.2 | 11.0 | 10.6 | 11.4 | 11.8 |
| | Y=6H | 14.3 | 15.1 | 14.8 | 15.5 | 16.0 | 10.1 | 10.8 | 10.5 | 11.2 | 11.7 |
| | Y=8H | 14.3 | 15.0 | 14.8 | 15.5 | 15.9 | 10.0 | 10.7 | 10.5 | 11.1 | 11.6 |
| | Y=12H | 14.3 | 14.9 | 14.8 | 15.4 | 15.9 | 10.0 | 10.6 | 10.4 | 11.1 | 11.5 |
| X=8H | Y=4H | 14.2 | 14.9 | 14.7 | 15.4 | 15.8 | 10.0 | 10.7 | 10.5 | 11.2 | 11.6 |
| | Y=6H | 14.2 | 14.8 | 14.7 | 15.3 | 15.9 | 9.9 | 10.5 | 10.4 | 11.0 | 11.6 |
| | Y=8H | 14.2 | 14.8 | 14.7 | 15.3 | 15.8 | 9.9 | 10.4 | 10.4 | 10.9 | 11.4 |
| | Y=12H | 14.2 | 14.7 | 14.7 | 15.2 | 15.8 | 9.8 | 10.3 | 10.3 | 10.8 | 11.4 |
| X=12H | Y=4H | 14.2 | 14.8 | 14.7 | 15.3 | 15.8 | 10.0 | 10.6 | 10.5 | 11.1 | 11.6 |
| | Y=6H | 14.2 | 14.7 | 14.7 | 15.2 | 15.7 | 9.9 | 10.4 | 10.4 | 10.9 | 11.4 |
| | Y=8H | 14.2 | 14.7 | 14.7 | 15.2 | 15.7 | 9.8 | 10.3 | 10.3 | 10.8 | 11.4 |
| Variations with the observer position at spacings | | | | | | | | | | | |
| S=1.0H | | 0.3/-0.3 | | | | | 1.3/-1.7 | | | | |
| S=1.5H | | 0.6/-0.7 | | | | | 1.7/-2.5 | | | | |
| S=2.0H | | 1.1/-1.0 | | | | | 2.4/-3.1 | | | | |
| Reduced UGR Table: | | | | | | | | | | | |
| Nordic Standard Table: | | BK0 | | | | | BK0 | | | | |
| Correction Value | | 0.3 | | | | | 0.2 | | | | |

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 | 876.77 | 876.77 | 876.77 | 876.77 |
| γ 1.0 | 938.68 | 790.15 | 832.12 | 900.41 |
| γ 2.0 | 972.85 | 725.78 | 765.74 | 941.93 |
| γ 3.0 | 989.00 | 660.19 | 694.80 | 966.86 |
| γ 4.0 | 986.73 | 596.59 | 628.45 | 974.41 |
| γ 5.0 | 966.80 | 534.87 | 565.26 | 965.66 |
| γ 6.0 | 924.14 | 476.58 | 505.96 | 940.87 |
| γ 7.0 | 868.60 | 425.22 | 451.88 | 903.74 |
| γ 8.0 | 806.18 | 383.37 | 405.14 | 855.87 |
| γ 9.0 | 741.88 | 349.07 | 367.57 | 799.60 |
| γ 10.0 | 678.02 | 319.37 | 335.87 | 735.67 |
| γ 11.0 | 615.65 | 292.72 | 308.47 | 669.93 |
| γ 12.0 | 555.52 | 270.53 | 283.71 | 608.50 |
| γ 13.0 | 500.44 | 251.14 | 262.86 | 549.10 |
| γ 14.0 | 449.86 | 234.30 | 244.43 | 492.66 |
| γ 15.0 | 407.24 | 219.98 | 228.24 | 441.81 |
| γ 16.0 | 370.15 | 207.91 | 214.21 | 398.14 |
| γ 17.0 | 338.34 | 197.51 | 202.10 | 362.40 |
| γ 18.0 | 310.82 | 188.78 | 191.90 | 332.57 |
| γ 19.0 | 286.50 | 180.86 | 183.15 | 305.73 |
| γ 20.0 | 265.29 | 173.93 | 175.30 | 281.96 |
| γ 21.0 | 246.46 | 167.54 | 168.53 | 261.54 |
| γ 22.0 | 230.35 | 161.51 | 162.31 | 243.81 |
| γ 23.0 | 216.27 | 156.03 | 156.82 | 228.26 |
| γ 24.0 | 204.28 | 150.75 | 151.59 | 214.81 |
| γ 25.0 | 194.48 | 145.77 | 146.63 | 203.09 |
| γ 26.0 | 186.27 | 140.91 | 142.05 | 193.02 |
| γ 27.0 | 179.26 | 136.66 | 137.80 | 184.48 |
| γ 28.0 | 172.98 | 132.57 | 134.06 | 176.96 |
| γ 29.0 | 166.95 | 129.20 | 130.53 | 170.47 |
| γ 30.0 | 161.63 | 125.58 | 127.24 | 164.64 |
| γ 31.0 | 156.72 | 121.69 | 123.87 | 159.18 |
| γ 32.0 | 151.91 | 118.06 | 120.63 | 154.17 |
| γ 33.0 | 147.38 | 114.28 | 117.47 | 149.62 |
| γ 34.0 | 143.18 | 108.93 | 113.24 | 145.12 |
| γ 35.0 | 139.42 | 101.24 | 107.64 | 140.91 |
| γ 36.0 | 136.08 | 91.60 | 99.37 | 137.25 |
| γ 37.0 | 132.68 | 80.96 | 89.11 | 133.75 |
| γ 38.0 | 129.33 | 69.85 | 77.60 | 130.36 |
| γ 39.0 | 125.87 | 58.42 | 65.46 | 126.92 |
| γ 40.0 | 122.35 | 46.90 | 52.97 | 123.37 |
| γ 41.0 | 118.26 | 35.94 | 40.94 | 119.37 |
| γ 42.0 | 112.21 | 26.56 | 30.11 | 114.78 |
| γ 43.0 | 103.42 | 20.31 | 21.89 | 108.16 |
| γ 44.0 | 93.00 | 16.86 | 16.60 | 99.64 |
| γ 45.0 | 81.63 | 14.85 | 13.76 | 89.31 |
| γ 46.0 | 69.46 | 13.38 | 11.96 | 77.96 |

## Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---|---|---|---|---|
| γ 47.0 | 57.00 | 11.68 | 10.58 | 66.09 |
| γ 48.0 | 44.52 | 10.08 | 9.29 | 54.03 |
| γ 49.0 | 33.50 | 8.53 | 8.04 | 42.52 |
| γ 50.0 | 25.25 | 7.55 | 7.12 | 32.14 |
| γ 51.0 | 20.25 | 6.90 | 6.49 | 24.17 |
| γ 52.0 | 17.45 | 6.31 | 5.91 | 19.12 |
| γ 53.0 | 15.46 | 5.79 | 5.34 | 16.37 |
| γ 54.0 | 13.72 | 5.33 | 4.88 | 14.40 |
| γ 55.0 | 12.15 | 4.90 | 4.50 | 12.46 |
| γ 56.0 | 10.62 | 4.51 | 4.13 | 10.70 |
| γ 57.0 | 9.42 | 4.16 | 3.81 | 9.33 |
| γ 58.0 | 8.52 | 3.79 | 3.52 | 8.43 |
| γ 59.0 | 7.83 | 3.48 | 3.24 | 7.74 |
| γ 60.0 | 7.24 | 3.20 | 2.95 | 7.11 |
| γ 61.0 | 6.72 | 2.94 | 2.70 | 6.51 |
| γ 62.0 | 6.24 | 2.71 | 2.47 | 5.97 |
| γ 63.0 | 5.78 | 2.48 | 2.28 | 5.49 |
| γ 64.0 | 5.33 | 2.27 | 2.11 | 5.07 |
| γ 65.0 | 4.92 | 2.08 | 1.96 | 4.70 |
| γ 66.0 | 4.57 | 1.90 | 1.82 | 4.36 |
| γ 67.0 | 4.23 | 1.72 | 1.69 | 4.04 |
| γ 68.0 | 3.93 | 1.56 | 1.55 | 3.73 |
| γ 69.0 | 3.64 | 1.42 | 1.44 | 3.46 |
| γ 70.0 | 3.40 | 1.27 | 1.32 | 3.22 |
| γ 71.0 | 3.17 | 1.14 | 1.20 | 3.01 |
| γ 72.0 | 2.94 | 0.99 | 1.11 | 2.80 |
| γ 73.0 | 2.73 | 0.85 | 0.99 | 2.62 |
| γ 74.0 | 2.54 | 0.76 | 0.88 | 2.45 |
| γ 75.0 | 2.35 | 0.65 | 0.76 | 2.31 |
| γ 76.0 | 2.19 | 0.53 | 0.66 | 2.16 |
| γ 77.0 | 2.02 | 0.43 | 0.55 | 2.03 |
| γ 78.0 | 1.87 | 0.32 | 0.44 | 1.88 |
| γ 79.0 | 1.73 | 0.21 | 0.33 | 1.75 |
| γ 80.0 | 1.61 | 0.13 | 0.22 | 1.63 |
| γ 81.0 | 1.48 | 0.02 | 0.12 | 1.51 |
| γ 82.0 | 1.33 | 0.00 | 0.01 | 1.39 |
| γ 83.0 | 1.21 | 0.00 | 0.00 | 1.27 |
| γ 84.0 | 1.08 | 0.00 | 0.00 | 1.16 |
| γ 85.0 | 0.96 | 0.00 | 0.00 | 1.03 |
| γ 86.0 | 0.84 | 0.00 | 0.00 | 0.92 |
| γ 87.0 | 0.72 | 0.00 | 0.00 | 0.80 |
| γ 88.0 | 0.60 | 0.00 | 0.00 | 0.67 |
| γ 89.0 | 0.49 | 0.00 | 0.00 | 0.55 |
| γ 90.0 | 0.37 | 0.00 | 0.00 | 0.38 |
| γ 91.0 | 0.20 | 0.00 | 0.00 | 0.28 |
| γ 92.0 | 0.00 | 0.00 | 0.00 | 0.10 |
| 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 | 0.01 | 0.00 |
| γ 139.0 | 0.00 | 0.00 | 0.08 | 0.00 |
| γ 140.0 | 0.00 | 0.00 | 0.13 | 0.00 |

# Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---|---|---|---|---|
| γ 141.0 | 0.00 | 0.01 | 0.18 | 0.00 |
| γ 142.0 | 0.00 | 0.06 | 0.22 | 0.00 |
| γ 143.0 | 0.00 | 0.11 | 0.27 | 0.00 |
| γ 144.0 | 0.00 | 0.15 | 0.32 | 0.00 |
| γ 145.0 | 0.00 | 0.20 | 0.35 | 0.05 |
| γ 146.0 | 0.00 | 0.24 | 0.39 | 0.10 |
| γ 147.0 | 0.03 | 0.27 | 0.43 | 0.16 |
| γ 148.0 | 0.08 | 0.31 | 0.45 | 0.21 |
| γ 149.0 | 0.13 | 0.35 | 0.49 | 0.26 |
| γ 150.0 | 0.18 | 0.38 | 0.51 | 0.31 |
| γ 151.0 | 0.23 | 0.42 | 0.55 | 0.34 |
| γ 152.0 | 0.27 | 0.44 | 0.58 | 0.38 |
| γ 153.0 | 0.31 | 0.47 | 0.60 | 0.41 |
| γ 154.0 | 0.36 | 0.50 | 0.63 | 0.45 |
| γ 155.0 | 0.40 | 0.52 | 0.67 | 0.49 |
| γ 156.0 | 0.44 | 0.56 | 0.69 | 0.52 |
| γ 157.0 | 0.48 | 0.58 | 0.71 | 0.55 |
| γ 158.0 | 0.52 | 0.60 | 0.73 | 0.56 |
| γ 159.0 | 0.55 | 0.64 | 0.77 | 0.60 |
| γ 160.0 | 0.59 | 0.67 | 0.79 | 0.63 |
| γ 161.0 | 0.62 | 0.69 | 0.81 | 0.64 |
| γ 162.0 | 0.65 | 0.72 | 0.83 | 0.68 |
| γ 163.0 | 0.68 | 0.76 | 0.85 | 0.70 |
| γ 164.0 | 0.71 | 0.77 | 0.87 | 0.72 |
| γ 165.0 | 0.74 | 0.79 | 0.88 | 0.74 |
| γ 166.0 | 0.76 | 0.81 | 0.89 | 0.75 |
| γ 167.0 | 0.79 | 0.82 | 0.90 | 0.79 |
| γ 168.0 | 0.81 | 0.83 | 0.91 | 0.80 |
| γ 169.0 | 0.85 | 0.85 | 0.92 | 0.82 |
| γ 170.0 | 0.86 | 0.84 | 0.92 | 0.83 |
| γ 171.0 | 0.89 | 0.85 | 0.93 | 0.85 |
| γ 172.0 | 0.90 | 0.85 | 0.93 | 0.87 |
| γ 173.0 | 0.92 | 0.85 | 0.91 | 0.88 |
| γ 174.0 | 0.94 | 0.85 | 0.91 | 0.90 |
| γ 175.0 | 0.94 | 0.86 | 0.91 | 0.90 |
| γ 176.0 | 0.95 | 0.86 | 0.92 | 0.92 |
| γ 177.0 | 0.96 | 0.87 | 0.92 | 0.93 |
| γ 178.0 | 0.96 | 0.87 | 0.92 | 0.94 |
| γ 179.0 | 0.96 | 0.88 | 0.94 | 0.93 |
| γ 180.0 | 0.93 | 0.93 | 0.93 | 0.93 |