# IES Flood Report
# Photometric Filename: HCP-3365145.IES

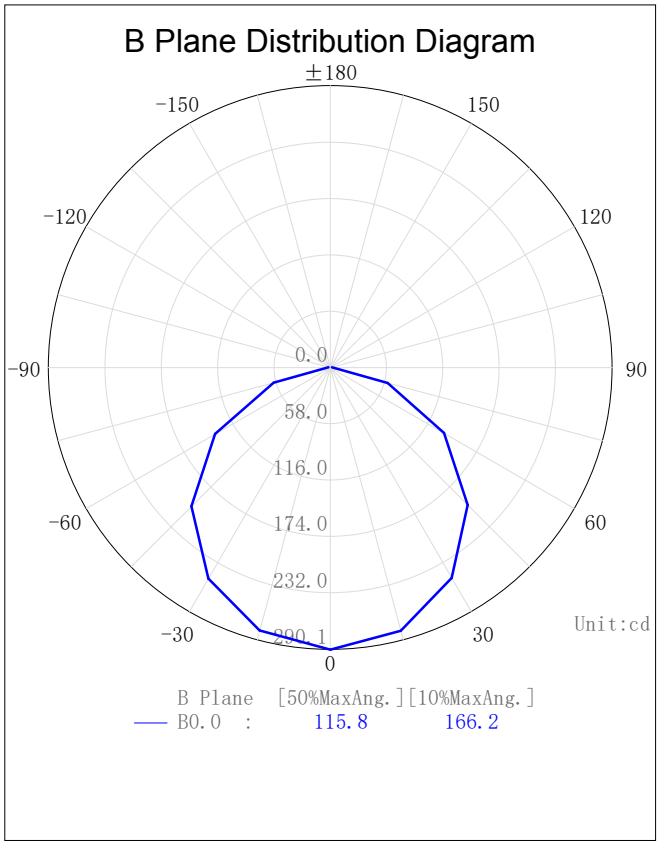
## Flood Luminaire Photometric Data

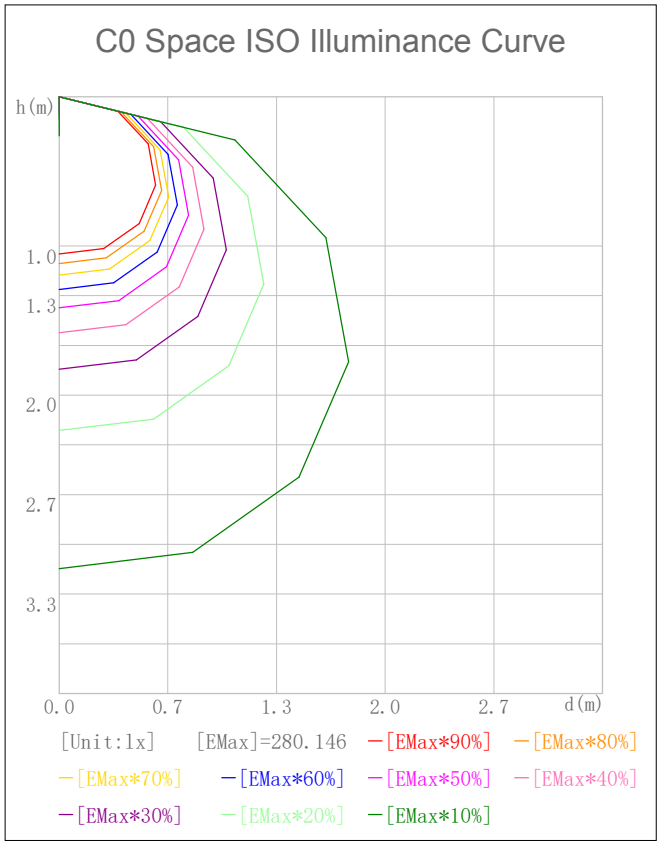
### Description Information

| | | | |
|---|---|---|---|
| Luminary Name: HCP-3365145 | | Lum. Catelog: | Test ID: |
| Lamp Name: 2110 5000k | | Lamp Catelog: | Test Date: 2019/07/03 |
| Manufacture: HAVIT COMMERCIAL | | Shld.Ang(° ): | Test Machine:GON-2000 |
| Test Lab: | | Frequency(Hz): | Lamp CCT(K): Ra: |
| Lum.Size(W*L*H):0.010m*1.000m*0.010m | | Lum.Area(m2):0.020 | Lum.W(kg): |
| Test System: B,β | Test Step: B=15.0 β=15.0 | Temp.(℃): | Humidity(%): |

### Character Parameter

| Lamp Speciality Parameter | | Luminaire Speciality Parameter | |
|---|---|---|---|
| Rated Flux(lm): 869.360 | Luminary Flux(lm): 933.316 | Beam Lumens(lm): 680.78 | |
| Rated Power(W): | Luminary Efficiency: 107.36% | Beam Efficiency(%): 72.94 | |
| Rated Voltage(V): | Luminary EER(lm/W): 63.751 | Field Lumens(lm): 924.41 | |
| Tested Power(W): 14.640 | Max.Candela(cd): 290.052 | Field Efficiency(%): 99.05 | |
| Lamps' Inside: 1 | Max Cand@Ang.(° ): B=0.0 β=0.0 | ErP Φuse(120° ): 681.160lm | |
| Tested Electrics(V,A,pf):24.0,0.610,0.000 | Beam Angle(50%)(V,H): 125.7(° ),115.8(° | IRF(%): 104.500 | |
| Lamp Size(W*L*H):0.010m*1.000m*0.010m | Field Angle(10%)(V,H): 179.7(° ),166.2(° ) | | |





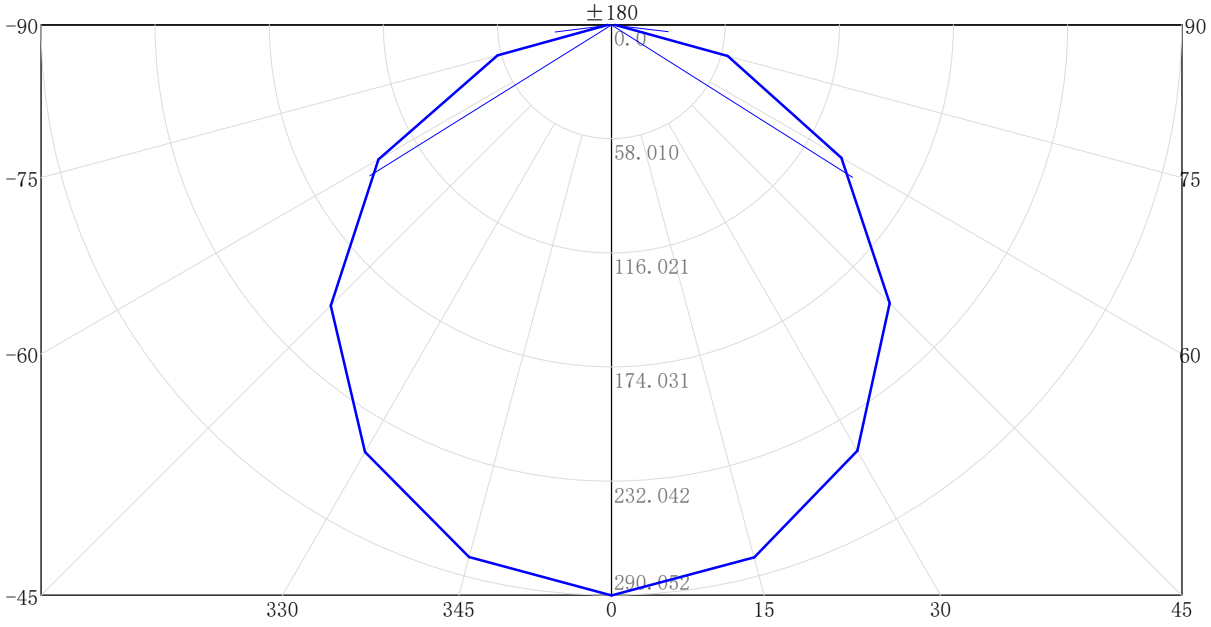
HAVIT LIGHTING
143 BEAUCHAMP RD., MATRAVILLE,NSW 2036 AUSTRALIA

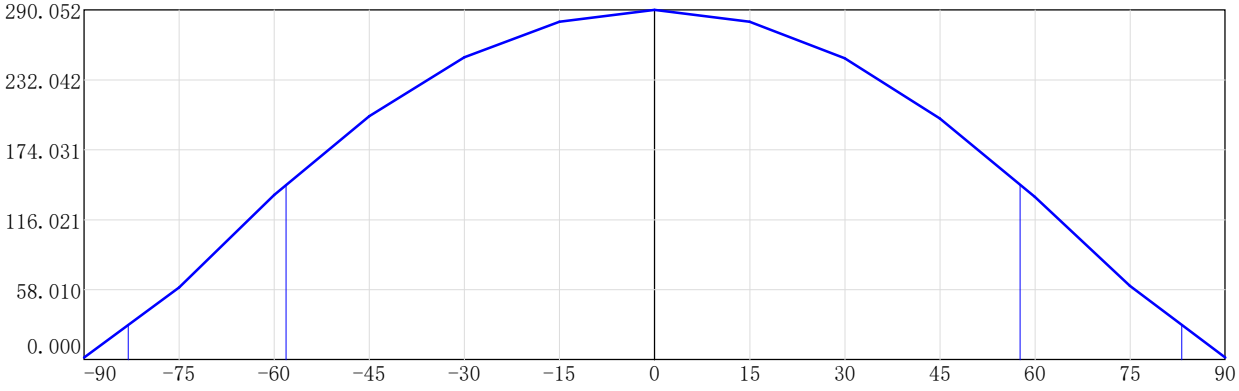
# IES Flood Report
# Photometric Filename: HCP-3365145.IES

## 2D Plane Light Intensity Distribution Curve

| | | |
|---|---|---|
| Lum.Name: HCP-3365145 | Lum.Catelog: | Test ID: |
| Lamp Name: 2110 5000k | Lamp Catelog: | Test Lab: |
| Manufacture: HAVIT COMMERCIAL | Test Machine:GON-2000 | Test Date: 2019/07/03 |

### B Plane Distribution Diagram



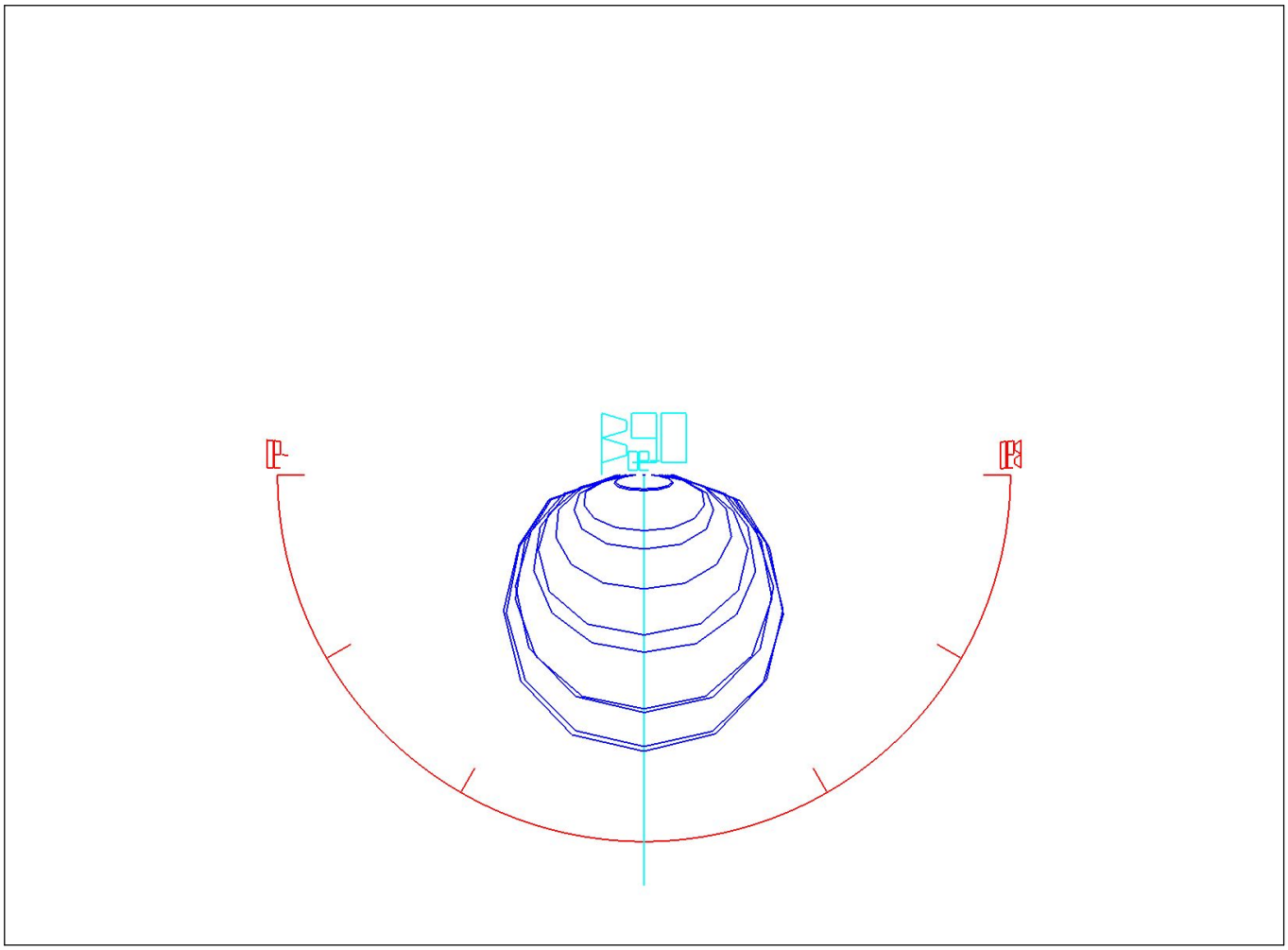

| B Plane | [50%MaxAng.] | [10%MaxAng.] | Unit:cd |
|---|---|---|---|
| B0.0 : | 115.8 | 166.2 | |

# IES Flood Report
# Photometric Filename: HCP-3365145.IES

## 3D Light Intensity Distribution Modal

| | | |
|---|---|---|
| Lum.Name: HCP-3365145 | Lum.Catelog: | Test ID: |
| Lamp Name: 2110 5000k | Lamp Catelog: | Test Lab: |
| Manufacture: HAVIT COMMERCIAL | Test Machine:GON-2000 | Test Date: 2019/07/03 |

3D Light Intensity Distribution Modal



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

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

# IES Flood Report
# Photometric Filename: HCP-3365145.IES

## Zone Lumens Tabulation

| | β -90.0 | β -75.0 | β -60.0 | β -45.0 | β -30.0 | β -15.0 | β 0.0 | β 15.0 | β 30.0 | β 45.0 | β 60.0 | β 75.0 | β 90.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-90.0 | 0.07 | 0.52 | 1.42 | 2.58 | 3.73 | 4.44 | 4.48 | 3.88 | 2.80 | 1.61 | 0.61 | 0.08 | |
| B-75.0 | 0.12 | 1.11 | 3.14 | 5.48 | 7.53 | 8.70 | 8.68 | 7.46 | 5.39 | 3.07 | 1.10 | 0.12 | |
| B-60.0 | 0.18 | 1.63 | 4.51 | 7.76 | 10.54 | 12.12 | 12.11 | 10.49 | 7.67 | 4.43 | 1.62 | 0.18 | |
| B-45.0 | 0.23 | 2.06 | 5.63 | 9.80 | 13.40 | 15.44 | 15.42 | 13.34 | 9.70 | 5.55 | 2.04 | 0.23 | |
| B-30.0 | 0.26 | 2.38 | 6.52 | 11.37 | 15.54 | 17.91 | 17.89 | 15.48 | 11.26 | 6.43 | 2.37 | 0.26 | |
| B-15.0 | 0.27 | 2.54 | 6.96 | 12.12 | 16.57 | 19.09 | 19.09 | 16.53 | 12.04 | 6.87 | 2.53 | 0.28 | |
| B0.0 | 0.27 | 2.54 | 6.96 | 12.13 | 16.56 | 19.09 | 19.09 | 16.55 | 12.06 | 6.89 | 2.54 | 0.28 | |
| B15.0 | 0.25 | 2.38 | 6.52 | 11.38 | 15.54 | 17.91 | 17.91 | 15.53 | 11.32 | 6.46 | 2.38 | 0.26 | |
| B30.0 | 0.22 | 2.04 | 5.60 | 9.80 | 13.40 | 15.45 | 15.46 | 13.38 | 9.75 | 5.56 | 2.06 | 0.23 | |
| B45.0 | 0.17 | 1.60 | 4.40 | 7.65 | 10.47 | 12.09 | 12.10 | 10.47 | 7.63 | 4.38 | 1.62 | 0.18 | |
| B60.0 | 0.11 | 1.07 | 3.02 | 5.35 | 7.41 | 8.62 | 8.61 | 7.39 | 5.33 | 3.02 | 1.11 | 0.12 | |
| B75.0 | 0.06 | 0.57 | 1.59 | 2.84 | 3.93 | 4.56 | 4.54 | 3.89 | 2.79 | 1.54 | 0.57 | 0.07 | |
| B90.0 | | | | | | | | | | | | | |
| Total | 2.21 | 20.44 | 56.25 | 98.26 | 134.61 | 155.41 | 155.38 | 134.39 | 97.74 | 55.79 | 20.54 | 2.29 | |

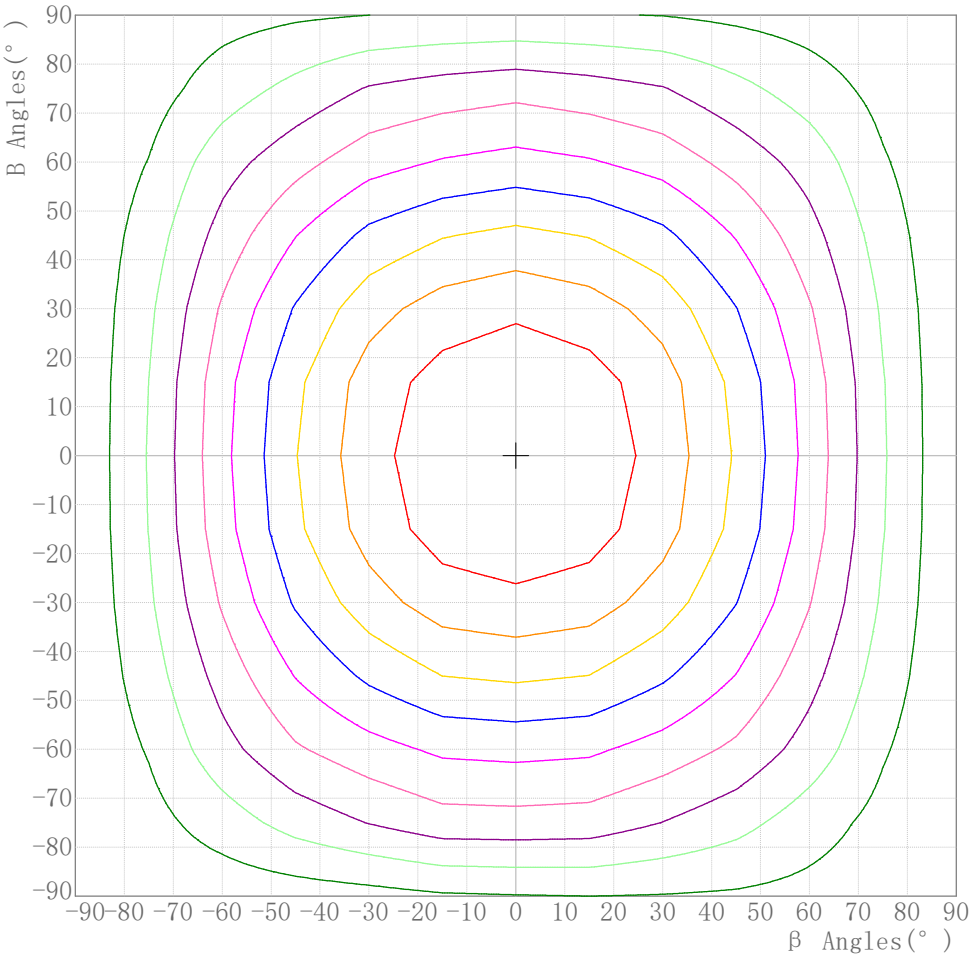
| | β 90.0 | Total |
|---|---|---|
| B-90.0 | | 26.23 |
| B-75.0 | | 51.89 |
| B-60.0 | | 73.24 |
| B-45.0 | | 92.84 |
| B-30.0 | | 107.65 |
| B-15.0 | | 114.88 |
| B0.0 | | 114.96 |
| B15.0 | | 107.83 |
| B30.0 | | 92.94 |
| B45.0 | | 72.76 |
| B60.0 | | 51.17 |
| B75.0 | | 26.93 |
| B90.0 | | |
| Total | | 933.32 |

# IES Flood Report
# Photometric Filename: HCP-3365145.IES

## Rectangle ISO Lighting Intensity Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-3365145 | Lum.Catelog: | Test ID: |
| Lamp Name: 2110 5000k | Lamp Catelog: | Test Lab: |
| Manufacture: HAVIT COMMERCIAL | Test Machine:GON-2000 | Test Date: 2019/07/03 |

ISO Lighting Intensity Curve




Curves:
[Unit: cd]
[IMax] =290.052
[IMax*90%]=261.047
[IMax*80%]=232.042
[IMax*70%]=203.036
[IMax*60%]=174.031
[IMax*50%]=145.026
[IMax*40%]=116.021
[IMax*30%]=87.016
[IMax*20%]=58.010
[IMax*10%]=29.005

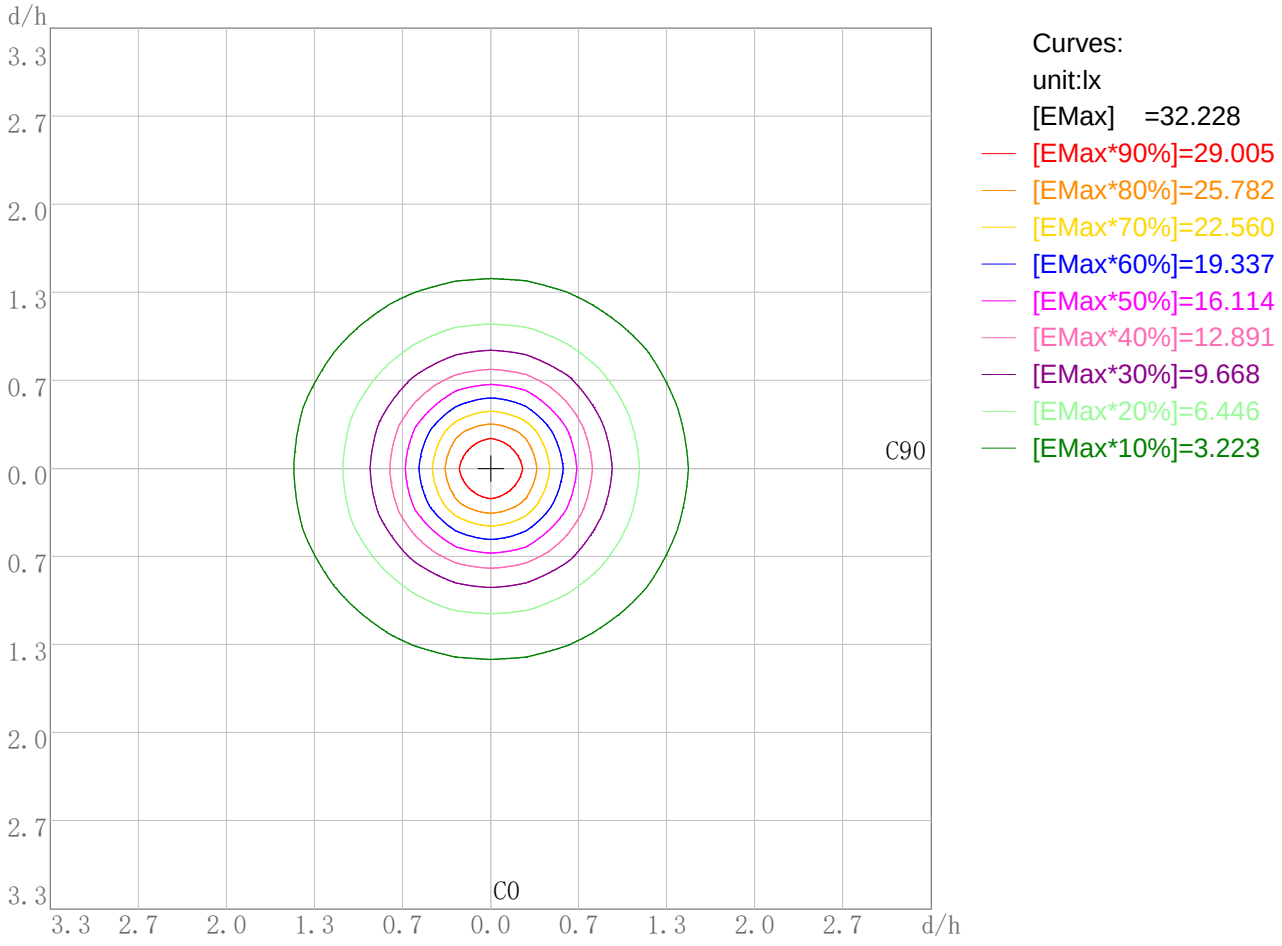
Maximum Light Intensity(cd): 290.05
Maximum Cand.@Angle: H=0.0°,V=0.0°

# IES Flood Report
# Photometric Filename: HCP-3365145.IES

## Plane ISO-Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-3365145 | Lum.Catelog: | Test ID: |
| Lamp Name: 2110 5000k | Lamp Catelog: | Test Lab: |
| Manufacture: HAVIT COMMERCIAL | Test Machine:GON-2000 | Test Date: 2019/07/03 |

Plane ISO-Illuminance Curve



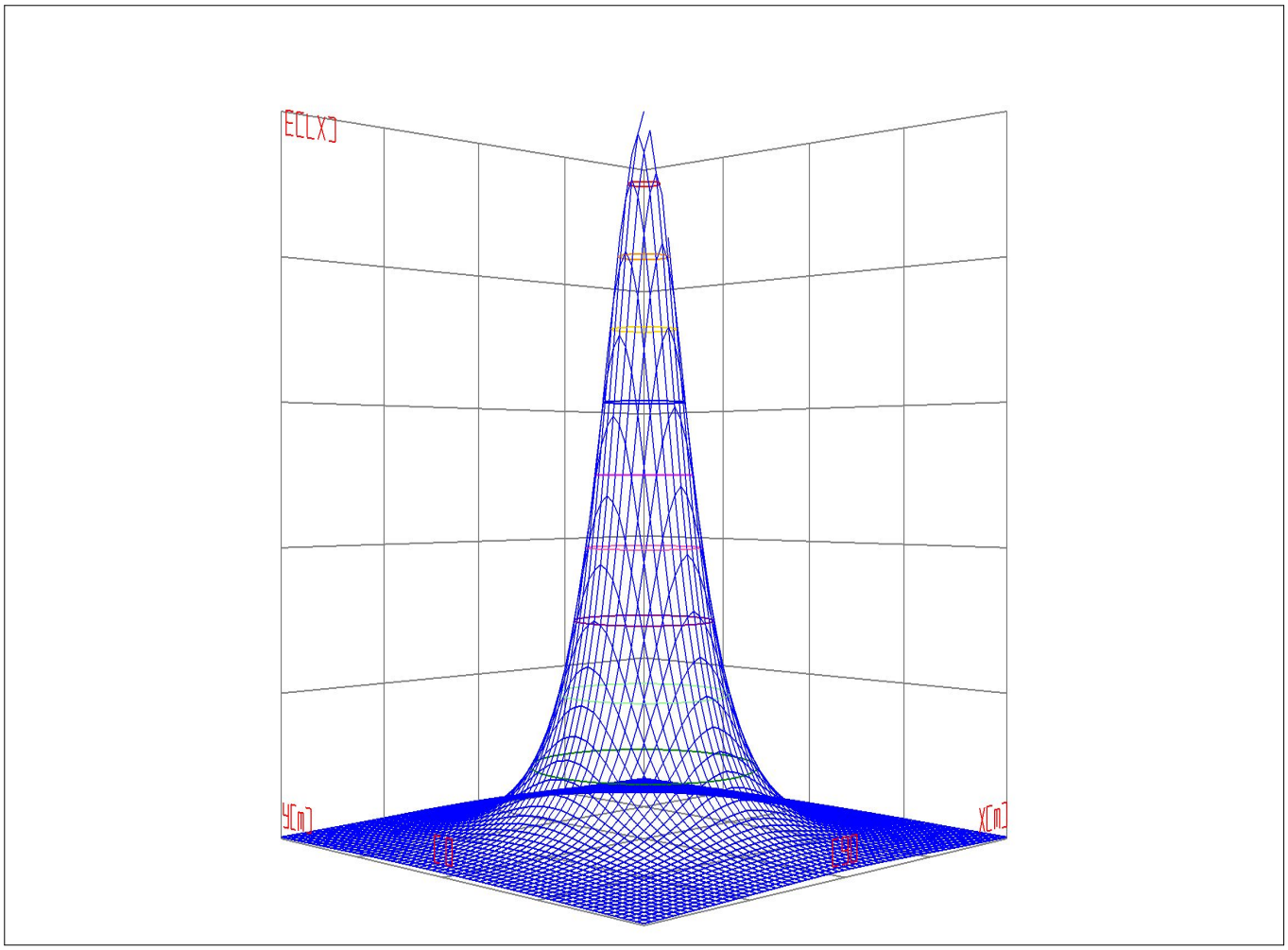

Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 32.23
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

# IES Flood Report
# Photometric Filename: HCP-3365145.IES

## 3D Plane ISO Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-3365145 | Lum.Catelog: | Test ID: |
| Lamp Name: 2110 5000k | Lamp Catelog: | Test Lab: |
| Manufacture: HAVIT COMMERCIAL | Test Machine:GON-2000 | Test Date: 2019/07/03 |

3D Plane Illuminance Modal




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

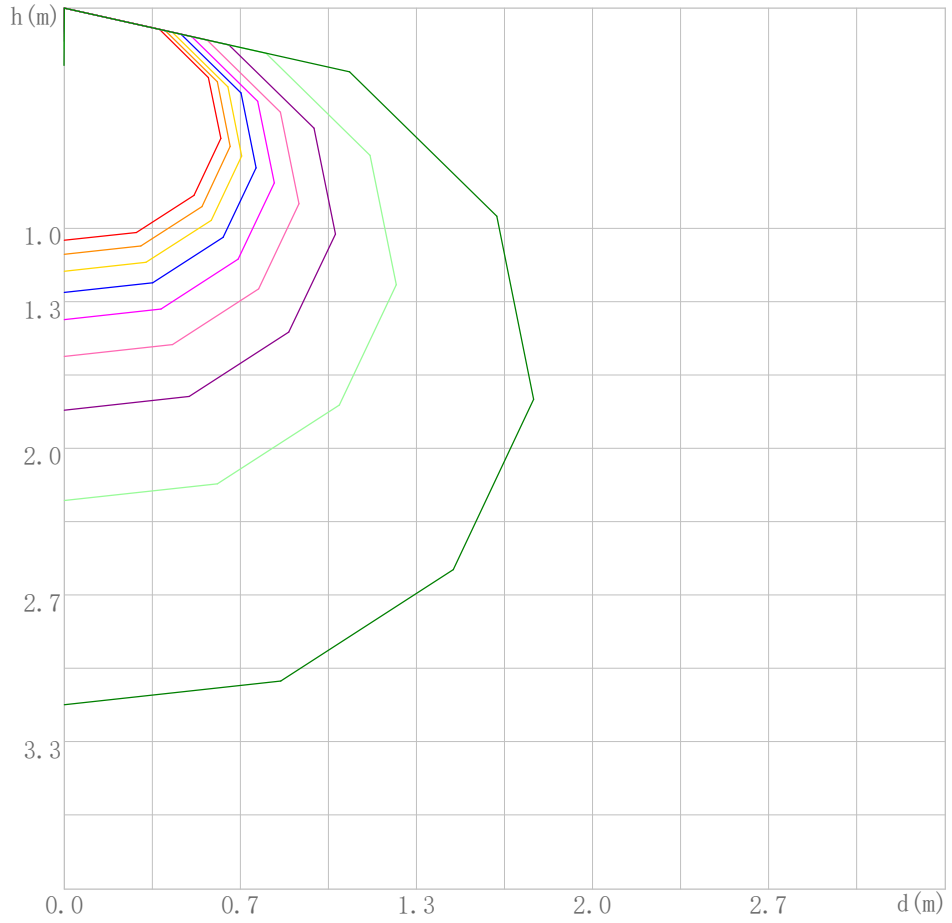
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

# IES Flood Report
# Photometric Filename: HCP-3365145.IES

## Space ISO Illuminance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-3365145 | Lum.Catelog: | Test ID: |
| Lamp Name: 2110 5000k | Lamp Catelog: | Test Lab: |
| Manufacture: HAVIT COMMERCIAL | Test Machine:GON-2000 | Test Date: 2019/07/03 |

Space ISO Illuminance Curve



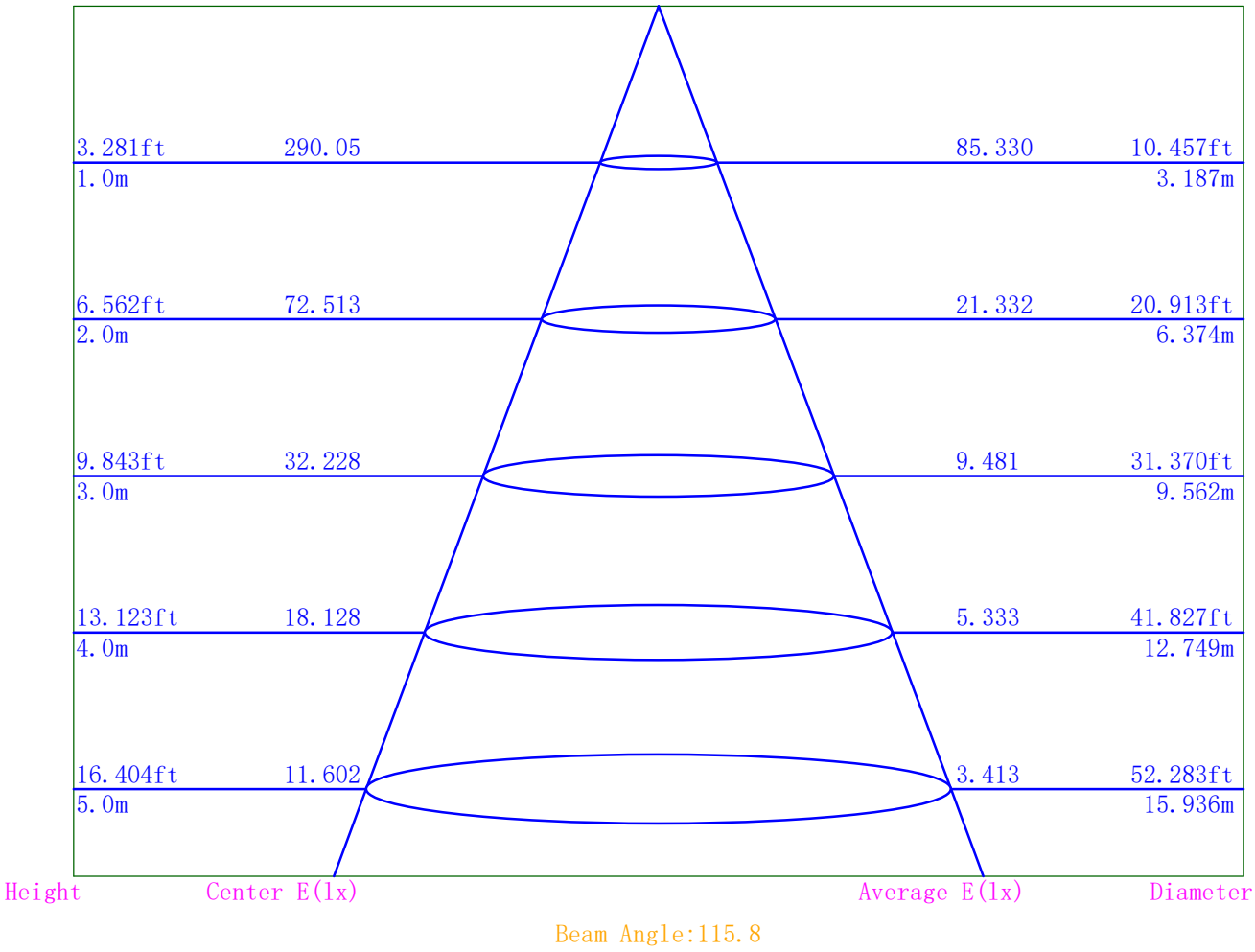

Space Plane Maximum Illuminance and @Angle:280.15lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:290.052cd,0eg

# IES Flood Report
# Photometric Filename: HCP-3365145.IES

## Illuminance-Distance Diagram

| | | |
|---|---|---|
| Lum.Name: HCP-3365145 | Lum.Catelog: | Test ID: |
| Lamp Name: 2110 5000k | Lamp Catelog: | Test Lab: |
| Manufacture: HAVIT COMMERCIAL | Test Machine:GON-2000 | Test Date: 2019/07/03 |

Illuminance-Distance Curve




Beam Angle:115.8

# IES Flood Report
# Photometric Filename: HCP-3365145.IES

## Candela Tabulation

| V/H | β -90.0 | β -75.0 | β -60.0 | β -45.0 | β -30.0 | β -15.0 | β 0.0 | β 15.0 | β 30.0 | β 45.0 | β 60.0 | β 75.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-90.0 | 1.91 | 8.18 | 9.96 | 13.99 | 18.69 | 25.45 | 27.58 | 29.01 | 27.50 | 24.95 | 19.70 | 11.51 |
| B-75.0 | 1.91 | 18.49 | 43.28 | 69.36 | 88.01 | 104.10 | 105.18 | 102.98 | 86.44 | 67.97 | 42.44 | 19.57 |
| B-60.0 | 1.91 | 31.30 | 76.54 | 112.56 | 134.03 | 150.62 | 153.71 | 150.29 | 132.91 | 110.12 | 74.48 | 32.10 |
| B-45.0 | 1.91 | 43.94 | 98.22 | 146.22 | 179.97 | 203.16 | 208.09 | 202.62 | 178.69 | 144.22 | 96.88 | 44.50 |
| B-30.0 | 1.91 | 53.26 | 119.17 | 177.54 | 219.35 | 246.51 | 253.61 | 245.99 | 217.89 | 174.88 | 117.39 | 53.86 |
| B-15.0 | 1.91 | 58.67 | 132.98 | 197.19 | 244.43 | 274.05 | 282.84 | 273.63 | 243.25 | 194.68 | 130.95 | 59.54 |
| B0.0 | 1.91 | 60.01 | 136.77 | 201.93 | 250.79 | 280.15 | 290.05 | 280.21 | 249.98 | 200.02 | 134.98 | 61.21 |
| B15.0 | 1.91 | 58.15 | 133.50 | 196.88 | 245.25 | 273.04 | 283.43 | 273.45 | 244.65 | 195.21 | 132.09 | 59.70 |
| B30.0 | 1.91 | 52.28 | 119.61 | 176.47 | 220.91 | 245.14 | 255.37 | 245.30 | 220.13 | 174.95 | 118.61 | 53.97 |
| B45.0 | 1.91 | 42.63 | 97.97 | 144.15 | 181.36 | 201.22 | 210.54 | 201.51 | 180.93 | 143.11 | 97.57 | 44.37 |
| B60.0 | 1.91 | 29.91 | 74.81 | 105.82 | 133.24 | 147.33 | 154.73 | 147.56 | 133.09 | 105.69 | 74.44 | 32.01 |
| B75.0 | 1.91 | 16.18 | 43.06 | 66.37 | 89.23 | 99.90 | 106.78 | 99.15 | 88.56 | 66.24 | 43.61 | 19.45 |
| B90.0 | 1.91 | 8.79 | 18.41 | 24.78 | 28.99 | 30.79 | 31.55 | 30.36 | 28.38 | 22.42 | 15.81 | 7.56 |

| V/H | β 90.0 |
|---|---|
| B-90.0 | 1.90 |
| B-75.0 | 1.90 |
| B-60.0 | 1.90 |
| B-45.0 | 1.90 |
| B-30.0 | 1.90 |
| B-15.0 | 1.90 |
| B0.0 | 1.90 |
| B15.0 | 1.90 |
| B30.0 | 1.90 |
| B45.0 | 1.90 |
| B60.0 | 1.90 |
| B75.0 | 1.90 |
| B90.0 | 1.90 |