

# IES Flood Report

## Photometric Filename: HCP-3763144.IES

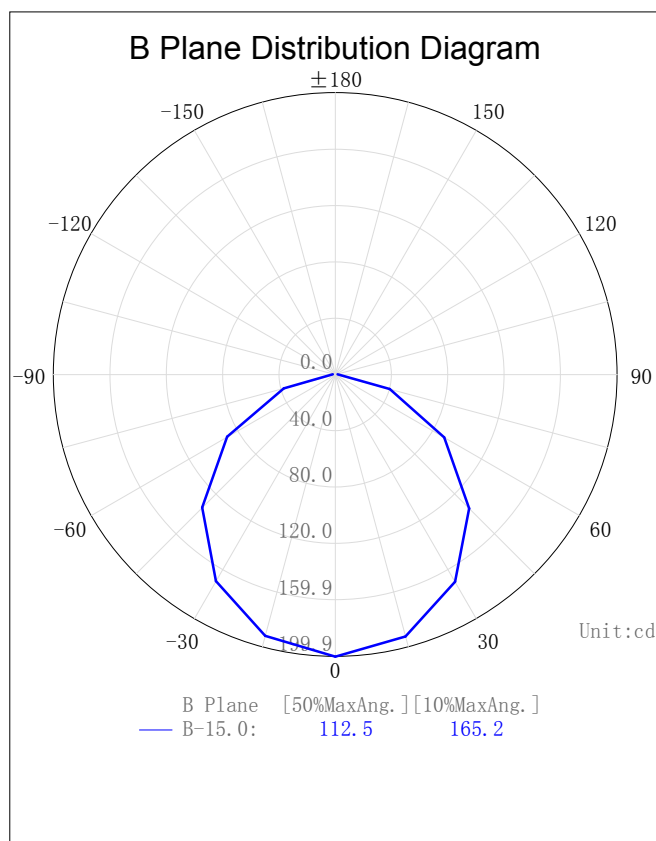
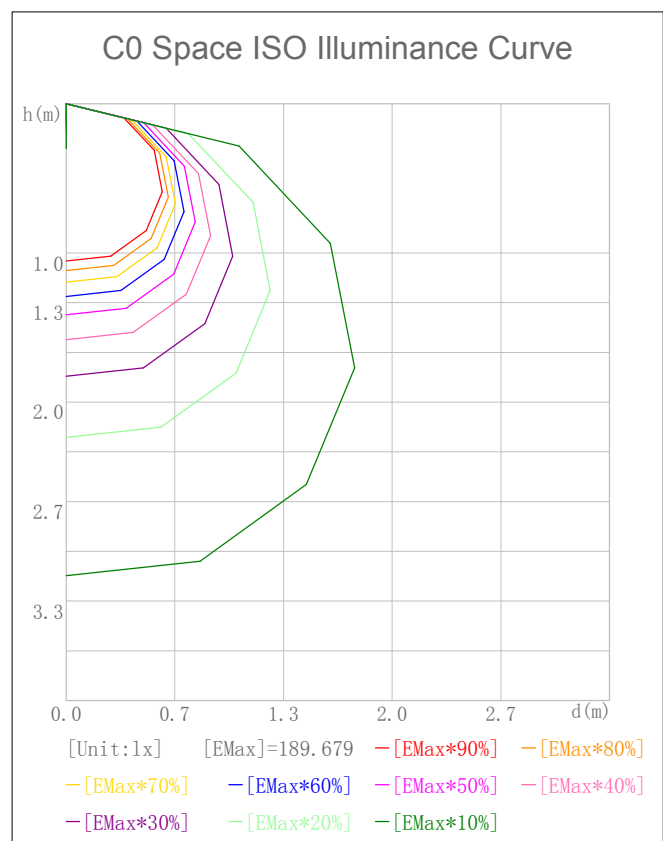
### Flood Luminaire Photometric Data

#### Description Information

|                                         |                          |                        |
|-----------------------------------------|--------------------------|------------------------|
| Luminary Name: HCP-3763144              | Lum. Catalog:            | Test ID:               |
| Lamp Name: 2835 4000K                   | Lamp Catalog:            | Test Date: 2019/06/28  |
| Manufacture: HAVIT COMMERCIAL           | Shld. Ang(°):            | Test Machine: GON-2000 |
| Test Lab:                               | Frequency (Hz):          | Lamp CCT (K): Ra:      |
| Lum. Size (W*L*H): 0.008m*1.000m*0.010m | Lum. Area (m2): 0.018    | Lum. W (kg):           |
| Test System: B, β                       | Test Step: B=15.0 β=15.0 | Temp. (°C):            |
|                                         |                          | Humidity (%):          |

#### Character Parameter

| Lamp Speciality Parameter                      | Luminaire Speciality Parameter              |                            |
|------------------------------------------------|---------------------------------------------|----------------------------|
| Rated Flux(lm): 1168.400                       | Luminary Flux(lm): 810.028                  | Beam Lumens(lm): 702.71    |
| Rated Power(W):                                | Luminary Efficiency: 69.33%                 | Beam Efficiency(%): 86.75  |
| Rated Voltage(V):                              | Luminary EER(lm/W): 59.605                  | Field Lumens(lm): 807.82   |
| Tested Power(W): 13.590                        | Max. Candela(cd): 199.927                   | Field Efficiency(%): 99.73 |
| Lamps' Inside: 1                               | Max Cand@Ang. (°): B=-15.0 β=0.0            | ErP Φuse(120°): 513.384lm  |
| Tested Electrics(V, A, pf): 24.0, 0.575, 0.000 | Beam Angle(50%) (V, H): 180.0(°), 112.5(°)  | IRF(%): 95.356             |
| Lamp Size (W*L*H): 0.008m*1.000m*0.010m        | Field Angle(10%) (V, H): 180.0(°), 165.2(°) |                            |



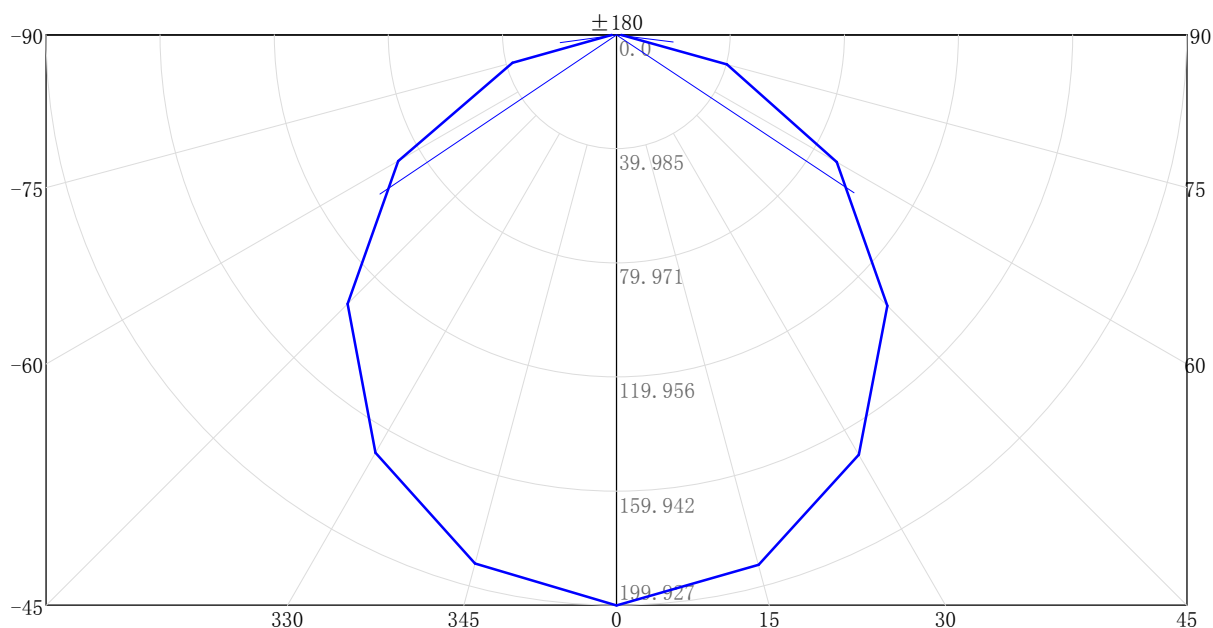
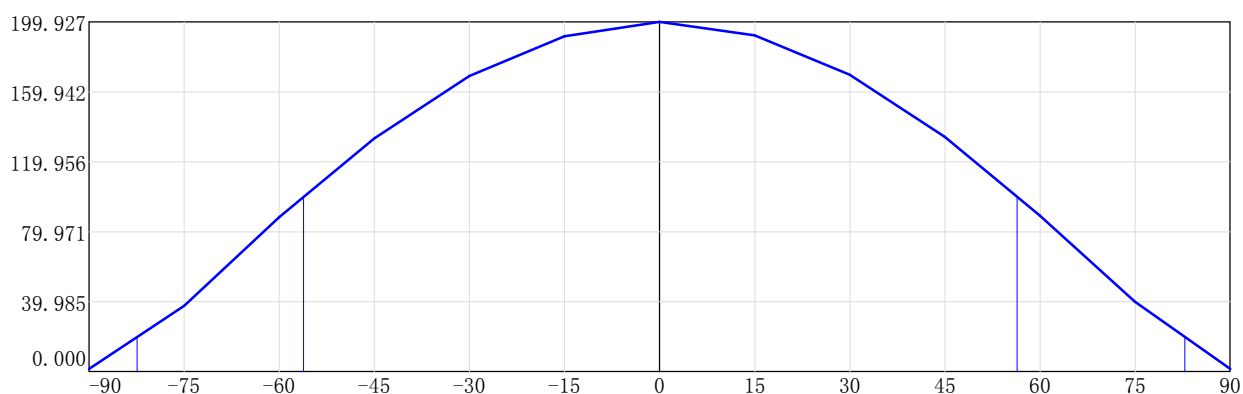
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### 2D Plane Light Intensity Distribution Curve

|                               |                        |                       |
|-------------------------------|------------------------|-----------------------|
| Lum. Name: HCP-3763144        | Lum. Catalog:          | Test ID:              |
| Lamp Name: 2835 4000K         | Lamp Catalog:          | Test Lab:             |
| Manufacture: HAVIT COMMERCIAL | Test Machine: GON-2000 | Test Date: 2019/06/28 |

B Plane Distribution Diagram



— B Plane [50%MaxAng.] [10%MaxAng.] Unit:cd  
 B-15.0: 112.5 165.2

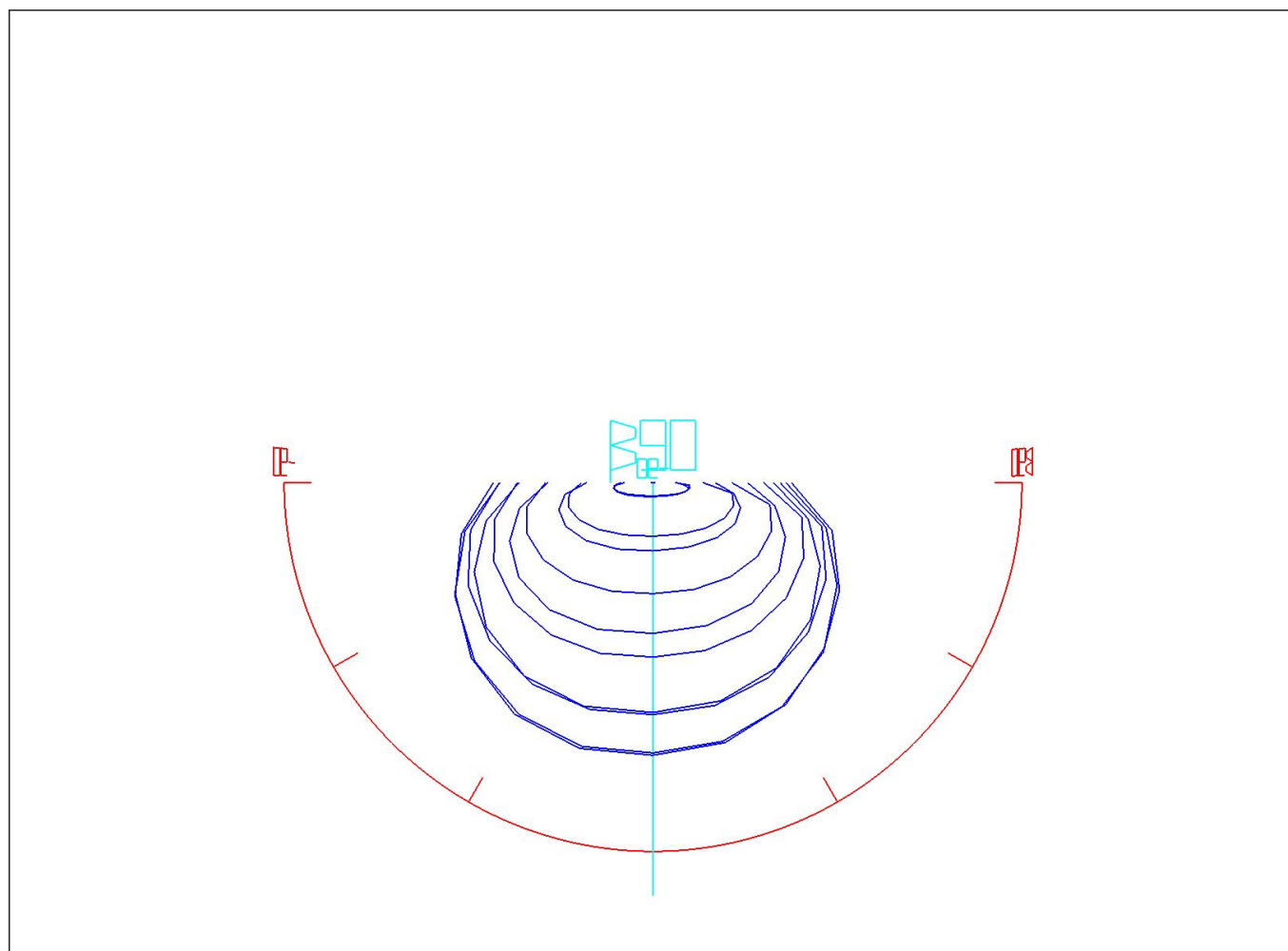
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### 3D Light Intensity Distribution Modal

|                               |                        |                       |
|-------------------------------|------------------------|-----------------------|
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| Manufacture: HAVIT COMMERCIAL | Test Machine: GON-2000 | Test Date: 2019/06/28 |

### 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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### 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 |         |         |         |         |         |         |        |        |        |        |        |        |        |
| B-75.0 | 0.12    | 1.06    | 3.00    | 5.37    | 7.48    | 8.71    | 8.72   | 7.51   | 5.42   | 3.06   | 1.11   | 0.13   |        |
| B-60.0 | 0.14    | 1.31    | 3.66    | 6.46    | 8.95    | 10.40   | 10.41  | 8.96   | 6.47   | 3.66   | 1.33   | 0.15   |        |
| B-45.0 | 0.16    | 1.48    | 4.11    | 7.27    | 10.07   | 11.71   | 11.72  | 10.09  | 7.29   | 4.13   | 1.51   | 0.17   |        |
| B-30.0 | 0.17    | 1.59    | 4.43    | 7.84    | 10.88   | 12.65   | 12.67  | 10.91  | 7.88   | 4.46   | 1.62   | 0.18   |        |
| B-15.0 | 0.18    | 1.64    | 4.58    | 8.13    | 11.29   | 13.15   | 13.16  | 11.33  | 8.17   | 4.62   | 1.68   | 0.19   |        |
| B0.0   | 0.17    | 1.64    | 4.58    | 8.15    | 11.33   | 13.20   | 13.22  | 11.37  | 8.20   | 4.63   | 1.68   | 0.19   |        |
| B15.0  | 0.17    | 1.62    | 4.53    | 8.06    | 11.21   | 13.07   | 13.09  | 11.26  | 8.13   | 4.59   | 1.67   | 0.18   |        |
| B30.0  | 0.17    | 1.58    | 4.43    | 7.89    | 10.96   | 12.78   | 12.80  | 11.02  | 7.96   | 4.50   | 1.64   | 0.18   |        |
| B45.0  | 0.16    | 1.51    | 4.21    | 7.49    | 10.39   | 12.10   | 12.12  | 10.44  | 7.56   | 4.28   | 1.56   | 0.17   |        |
| B60.0  | 0.15    | 1.38    | 3.86    | 6.84    | 9.49    | 11.05   | 11.07  | 9.54   | 6.91   | 3.92   | 1.43   | 0.16   |        |
| B75.0  | 0.13    | 1.19    | 3.38    | 6.00    | 8.33    | 9.70    | 9.72   | 8.38   | 6.07   | 3.44   | 1.26   | 0.14   |        |
| B90.0  | 0.10    | 0.95    | 2.74    | 4.90    | 6.77    | 7.85    | 7.78   | 6.62   | 4.68   | 2.56   | 0.93   | 0.11   |        |
| Total  | 1.81    | 16.96   | 47.52   | 84.40   | 117.14  | 136.36  | 136.48 | 117.43 | 84.73  | 47.83  | 17.43  | 1.93   |        |

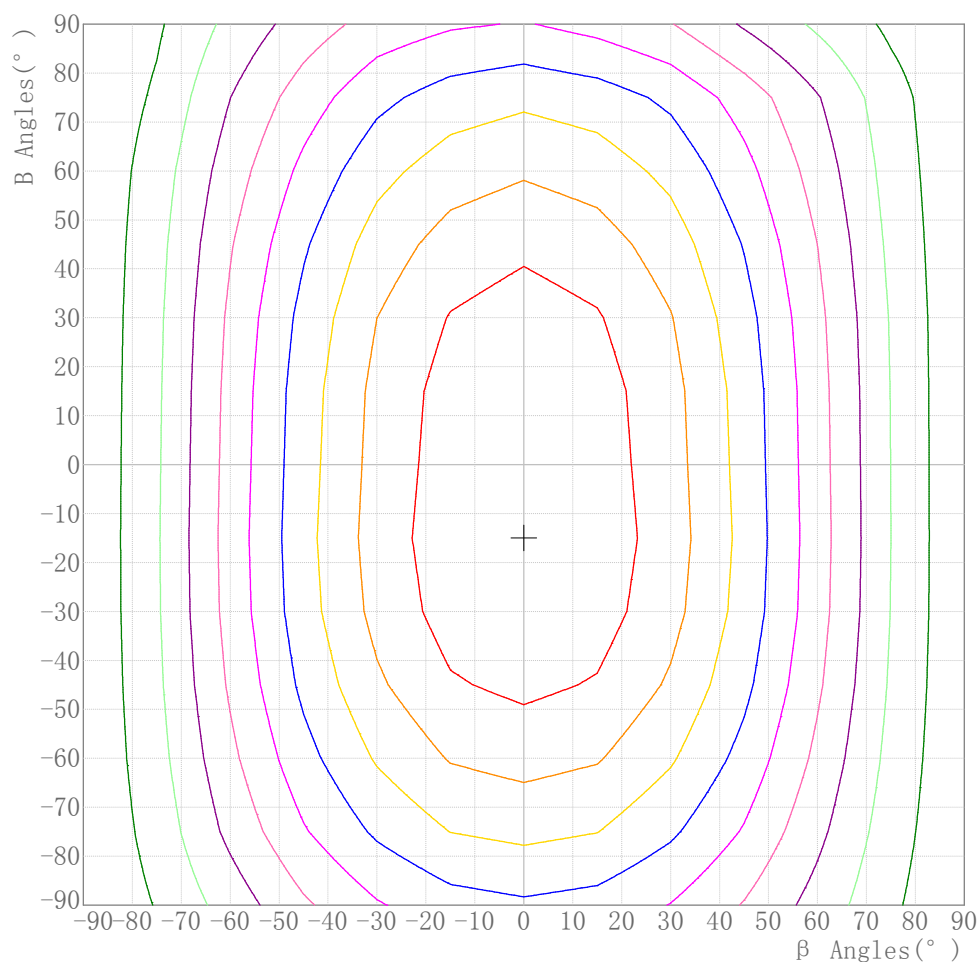
| β 90.0 | Total  |
|--------|--------|
| B-90.0 | 51.68  |
| B-75.0 | 61.91  |
| B-60.0 | 69.71  |
| B-45.0 | 75.28  |
| B-30.0 | 78.11  |
| B-15.0 | 78.36  |
| B0.0   | 77.59  |
| B15.0  | 75.90  |
| B30.0  | 71.99  |
| B45.0  | 65.78  |
| B60.0  | 57.72  |
| B75.0  | 45.99  |
| B90.0  |        |
| Total  | 810.03 |

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**Rectangle ISO Lighting Intensity Diagram**

|                               |                        |                       |
|-------------------------------|------------------------|-----------------------|
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| Lamp Name: 2835 4000K         | Lamp Catalog:          | Test Lab:             |
| Manufacture: HAVIT COMMERCIAL | Test Machine: GON-2000 | Test Date: 2019/06/28 |

**ISO Lighting Intensity Curve**



Curves:

[Unit: cd]

[IMax] =199.927

— [IMax\*90%]=179.934

— [IMax\*80%]=159.942

— [IMax\*70%]=139.949

— [IMax\*60%]=119.956

— [IMax\*50%]=99.964

— [IMax\*40%]=79.971

— [IMax\*30%]=59.978

— [IMax\*20%]=39.985

— [IMax\*10%]=19.993

Maximum Light Intensity(cd): 199.93

Maximum Cand.@Angle: H=0.0°,V=-15.0°

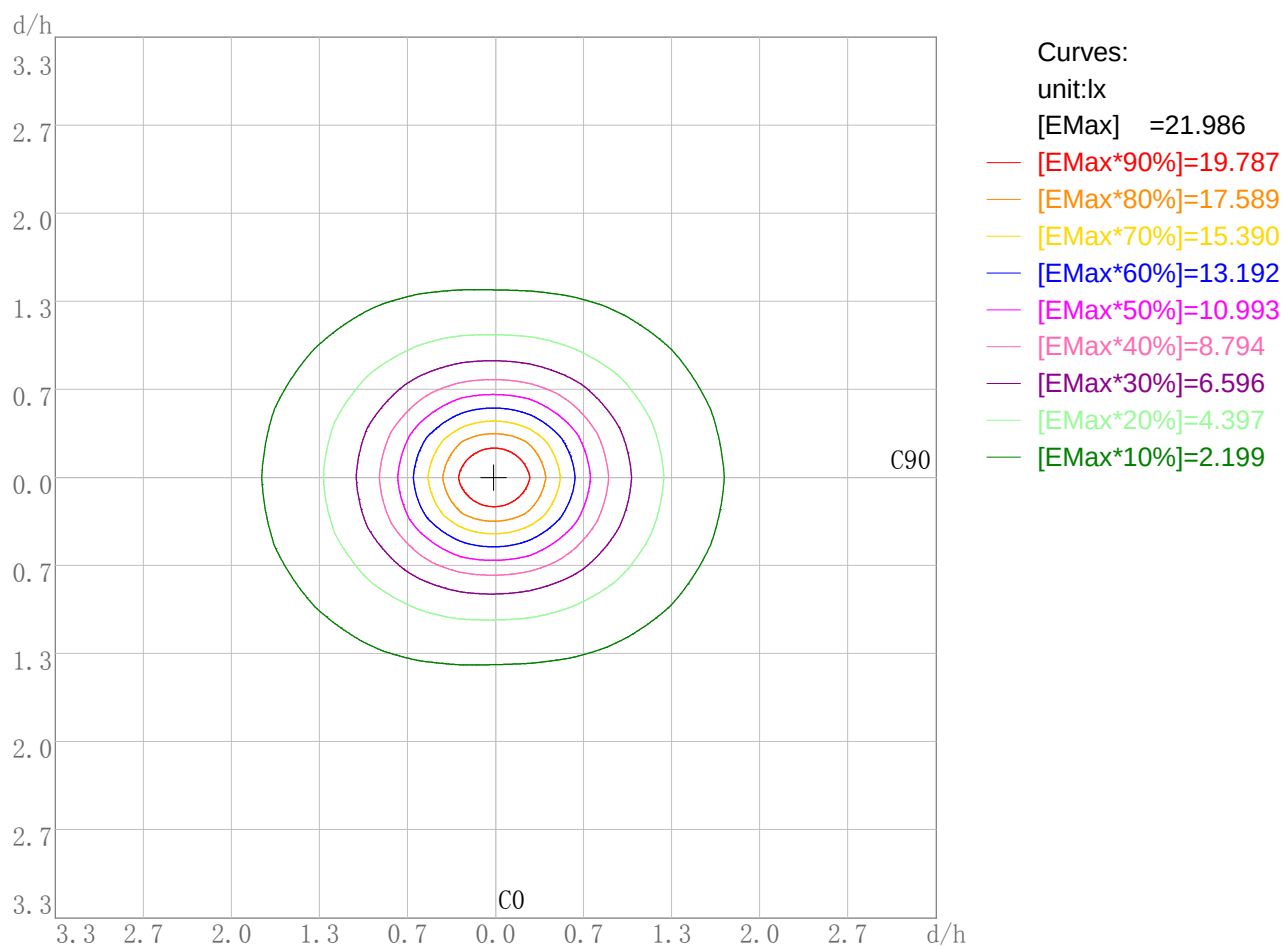
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### Plane ISO-Illuminance Diagram

|                               |                        |                       |
|-------------------------------|------------------------|-----------------------|
| Lum. Name: HCP-3763144        | Lum. Catalog:          | Test ID:              |
| Lamp Name: 2835 4000K         | Lamp Catalog:          | Test Lab:             |
| Manufacture: HAVIT COMMERCIAL | Test Machine: GON-2000 | Test Date: 2019/06/28 |

### Plane ISO-Illuminance Curve

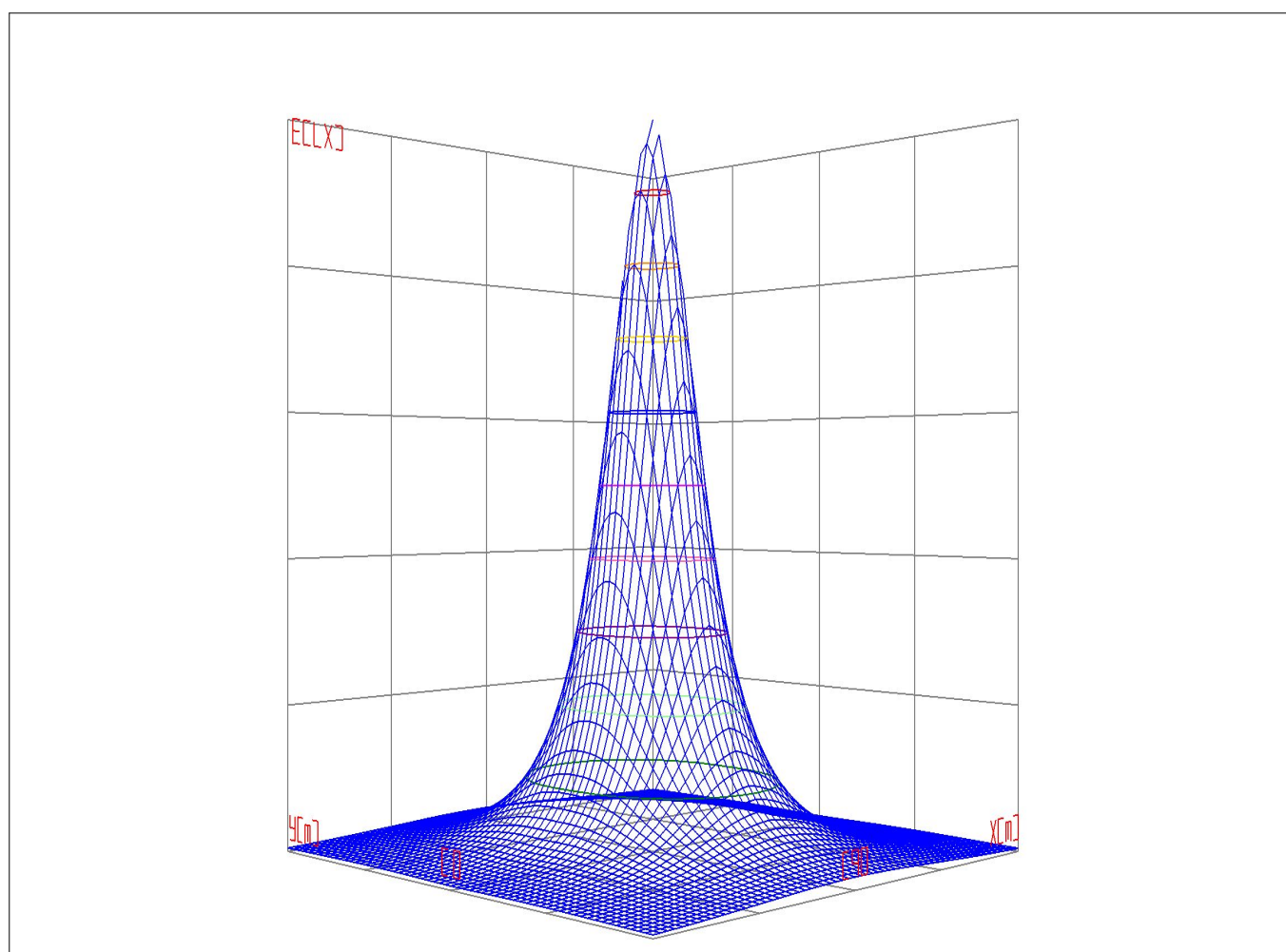


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 21.99  
Working Plane Maximum Illuminance Position(d/h):H-0.0 V0.0

### 3D Plane ISO Illuminance Diagram

|                               |                        |                       |
|-------------------------------|------------------------|-----------------------|
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| Lamp Name: 2835 4000K         | Lamp Catalog:          | Test Lab:             |
| Manufacture: HAVIT COMMERCIAL | Test Machine: GON-2000 | Test Date: 2019/06/28 |

### 3D Plane Illuminance Model



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

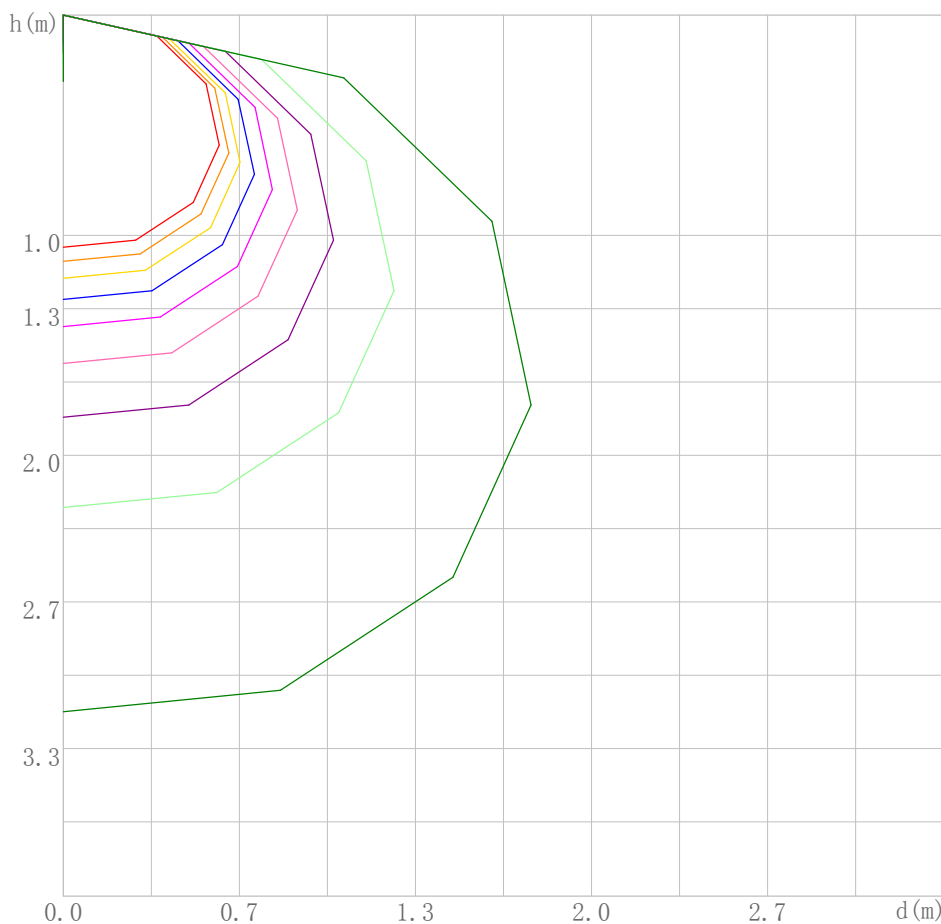
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### Space ISO Illuminance Diagram

|                               |                        |                       |
|-------------------------------|------------------------|-----------------------|
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| Lamp Name: 2835 4000K         | Lamp Catalog:          | Test Lab:             |
| Manufacture: HAVIT COMMERCIAL | Test Machine: GON-2000 | Test Date: 2019/06/28 |

### Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =189.679

— [EMax\*90%]=170.711

— [EMax\*80%]=151.743

— [EMax\*70%]=132.775

— [EMax\*60%]=113.807

— [EMax\*50%]=94.840

— [EMax\*40%]=75.872

— [EMax\*30%]=56.904

— [EMax\*20%]=37.936

— [EMax\*10%]=18.968

Space Plane Maximum Illuminance and @Angle:189.68lx,0.0deg

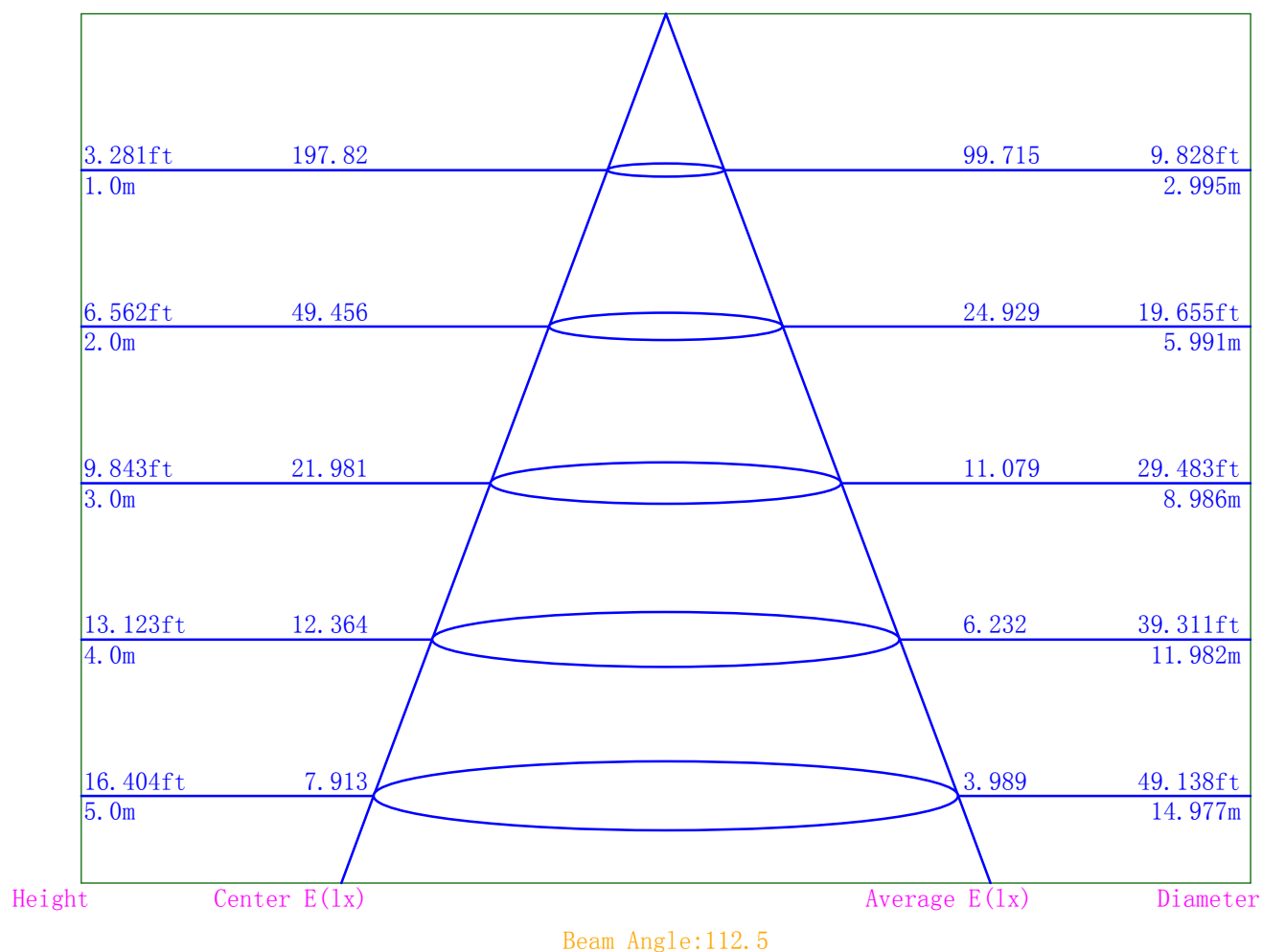
Plane Maximum Lighting Intensity and @Angle:197.825cd,0deg

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## Illuminance-Distance Diagram

|                               |                        |                       |
|-------------------------------|------------------------|-----------------------|
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| Lamp Name: 2835 4000K         | Lamp Catalog:          | Test Lab:             |
| Manufacture: HAVIT COMMERCIAL | Test Machine: GON-2000 | Test Date: 2019/06/28 |

Illuminance-Distance Curve



## 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. 70    | 21. 05   | 48. 40   | 76. 79   | 98. 08   | 111. 98  | 116. 78 | 112. 52 | 99. 31  | 78. 68  | 52. 32  | 23. 51  |
| B-75. 0 | 1. 70    | 27. 82   | 65. 10   | 98. 11   | 123. 28  | 140. 23  | 145. 22 | 140. 38 | 123. 33 | 98. 24  | 65. 03  | 29. 36  |
| B-60. 0 | 1. 70    | 32. 67   | 75. 23   | 113. 05  | 142. 09  | 161. 38  | 167. 22 | 161. 64 | 142. 33 | 113. 42 | 75. 36  | 34. 06  |
| B-45. 0 | 1. 70    | 35. 76   | 82. 78   | 124. 49  | 156. 71  | 177. 83  | 184. 63 | 178. 25 | 157. 16 | 125. 14 | 83. 27  | 37. 53  |
| B-30. 0 | 1. 70    | 37. 42   | 87. 28   | 131. 46  | 166. 01  | 188. 39  | 196. 03 | 188. 90 | 166. 68 | 132. 32 | 87. 99  | 39. 52  |
| B-15. 0 | 1. 70    | 37. 76   | 88. 36   | 133. 34  | 169. 01  | 191. 78  | 199. 93 | 192. 27 | 169. 77 | 134. 24 | 89. 17  | 40. 03  |
| B0. 0   | 1. 70    | 37. 26   | 87. 29   | 131. 81  | 167. 17  | 189. 68  | 197. 82 | 190. 26 | 168. 06 | 132. 95 | 88. 41  | 39. 80  |
| B15. 0  | 1. 70    | 36. 63   | 86. 21   | 130. 42  | 165. 57  | 187. 96  | 196. 10 | 188. 60 | 166. 65 | 131. 86 | 87. 69  | 39. 49  |
| B30. 0  | 1. 70    | 35. 51   | 83. 58   | 125. 96  | 159. 91  | 181. 04  | 189. 18 | 181. 67 | 161. 02 | 127. 44 | 85. 22  | 38. 45  |
| B45. 0  | 1. 70    | 33. 33   | 78. 30   | 117. 35  | 148. 98  | 168. 21  | 175. 96 | 168. 82 | 150. 05 | 118. 87 | 79. 88  | 35. 46  |
| B60. 0  | 1. 70    | 29. 70   | 70. 06   | 104. 94  | 133. 37  | 150. 43  | 157. 56 | 151. 01 | 134. 44 | 106. 36 | 71. 63  | 31. 85  |
| B75. 0  | 1. 70    | 22. 99   | 59. 78   | 89. 72   | 114. 52  | 129. 16  | 135. 58 | 129. 73 | 115. 59 | 91. 09  | 61. 34  | 27. 99  |
| B90. 0  | 1. 70    | 17. 01   | 45. 31   | 69. 08   | 88. 03   | 97. 29   | 101. 27 | 92. 98  | 80. 96  | 57. 63  | 36. 48  | 15. 94  |

| V/H    | $\beta$ 90.0 |
|--------|--------------|
| B-90.0 | 1.71         |
| B-75.0 | 1.71         |
| B-60.0 | 1.71         |
| B-45.0 | 1.71         |
| B-30.0 | 1.71         |
| B-15.0 | 1.71         |
| B0.0   | 1.71         |
| B15.0  | 1.71         |
| B30.0  | 1.71         |
| B45.0  | 1.71         |
| B60.0  | 1.71         |
| B75.0  | 1.71         |
| B90.0  | 1.71         |