

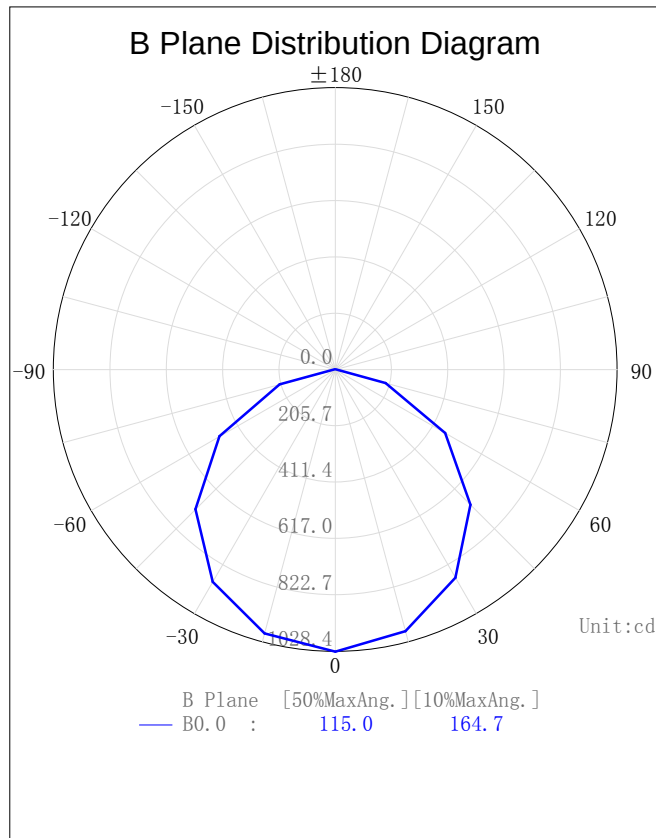
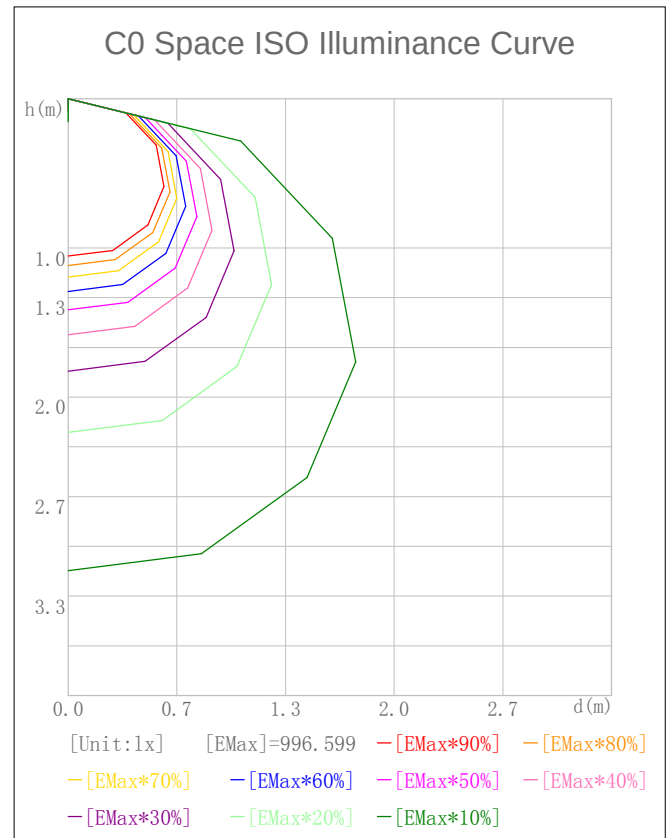
Flood Luminaire Photometric Data

Description Information

Luminary Name: HCP-3329284	Lum. Catalog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catalog:	Test Date: 2019/05/25
Manufacture: HAVIT COMMERCIAL	Shld. Ang(°):	Test Machine: GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H): 0.012m*0.100m*0.010m	Lum. Area(m2): 0.002	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): 3320.300	Luminary Flux(lm): 2999.799	Beam Lumens(lm): 2198.91
Rated Power(W):	Luminary Efficiency: 90.35%	Beam Efficiency(%): 73.30
Rated Voltage(V):	Luminary EER(lm/W): 98.678	Field Lumens(lm): 2933.81
Tested Power(W): 30.400	Max. Candela(cd): 1028.412	Field Efficiency(%): 97.80
Lamps' Inside: 1	Max Cand@Ang. (°): B=0.0 β=0.0	ErP Φuse(120°): 2346.582lm
Tested Electrics(V, A, pf): 24.0, 1.27, 0.000	Beam Angle(50%) (V, H): 114.8(°), 115.0(°)	IRF(%): 107.324
Lamp Size(W*L*H): 0.012m*0.100m*0.010m	Field Angle(10%) (V, H): 165.7(°), 164.7(°)	



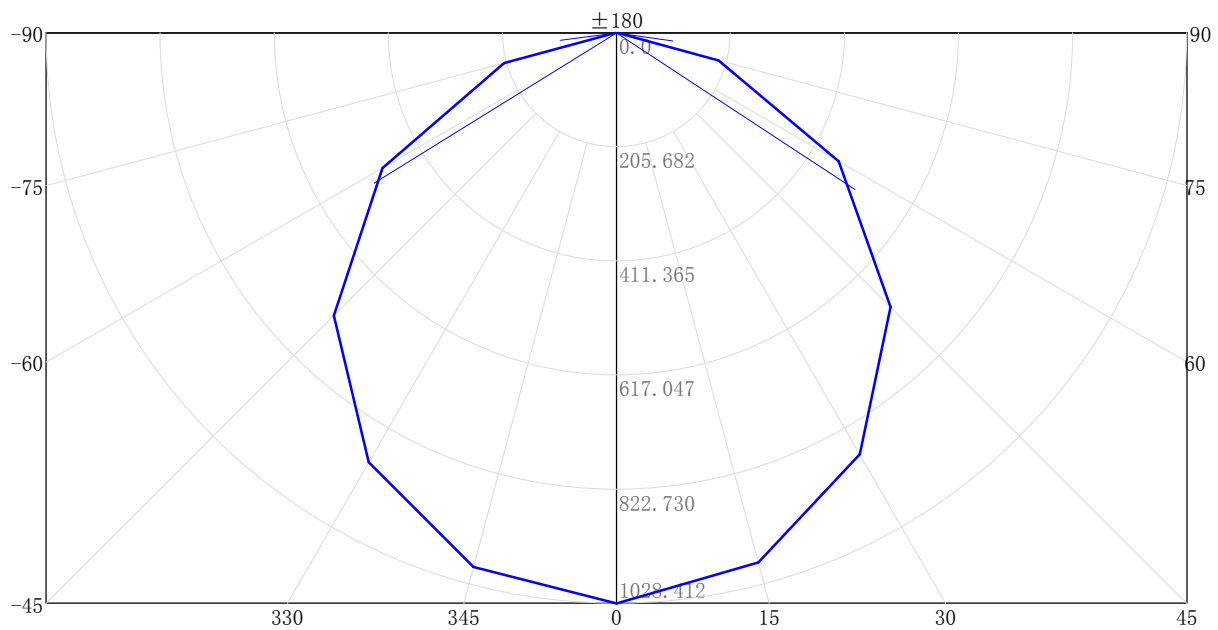
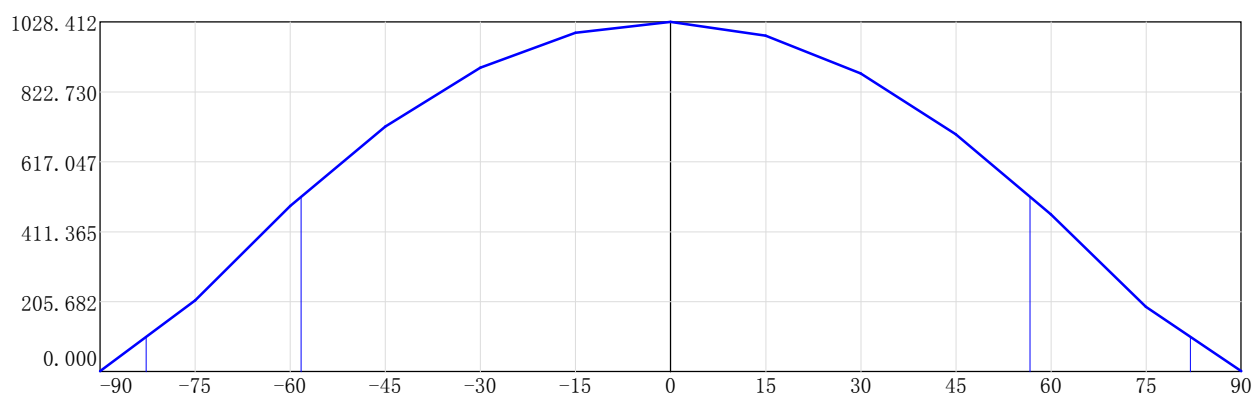
IES Flood Report

Photometric Filename: HCP-3329284.IES

2D Plane Light Intensity Distribution Curve

Lum. Name: HCP-3329284	Lum. Catalog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/25

B Plane Distribution Diagram

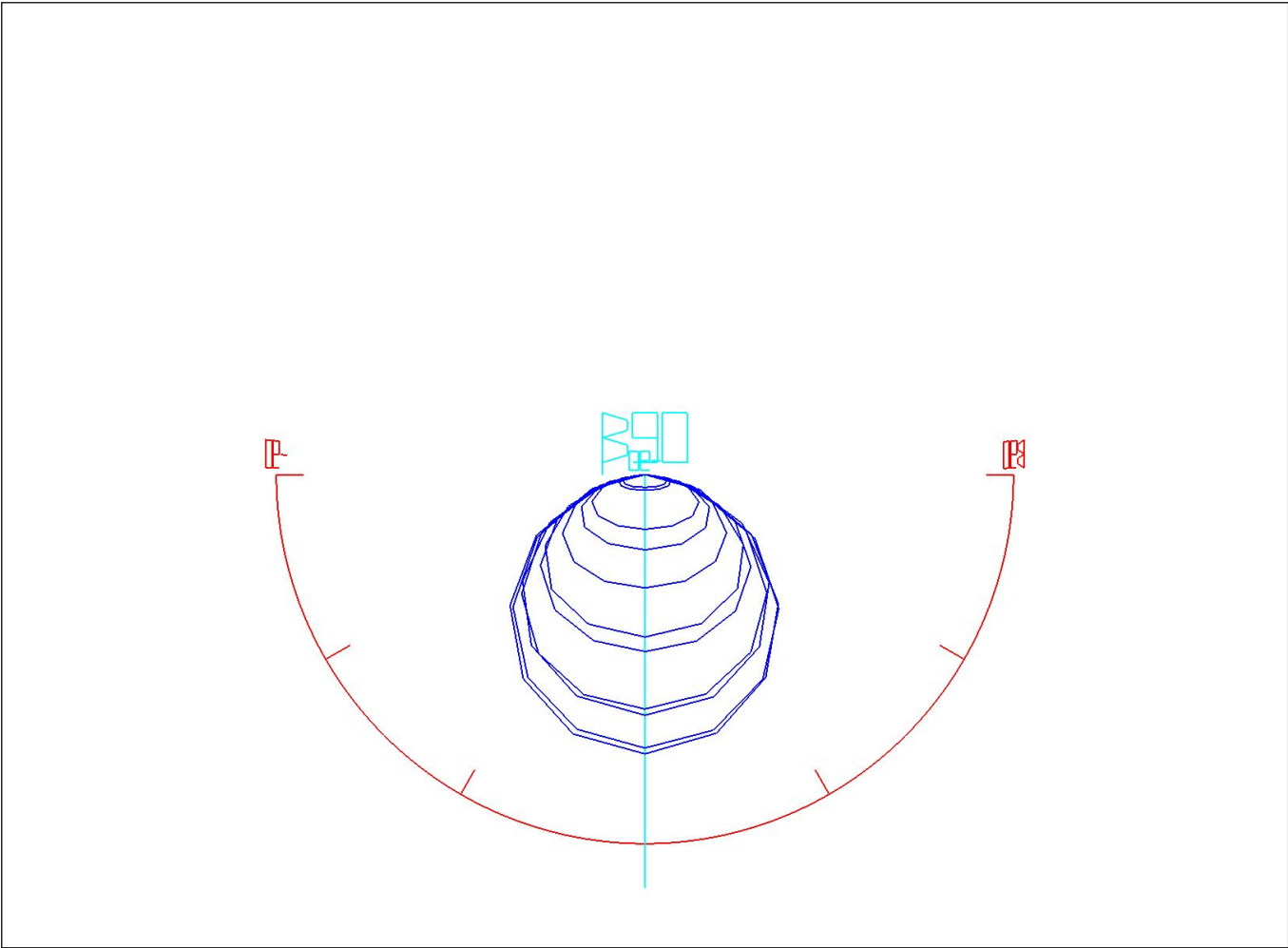


— B Plane
 B0.0 : [50%MaxAng.] [10%MaxAng.] Unit:cd
 115.0 164.7

3D Light Intensity Distribution Modal

Lum. Name: HCP-3329284	Lum. Catalog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/25

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

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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	0.10	0.83	2.41	4.33	6.14	7.17	7.19	6.22	4.38	2.39	0.83	0.10	
B-60.0	0.27	2.62	7.74	14.01	19.61	22.70	22.59	19.29	13.59	7.37	2.45	0.25	
B-45.0	0.48	4.77	13.79	24.63	34.09	39.35	39.17	33.59	23.97	13.19	4.45	0.44	
B-30.0	0.69	6.73	19.05	33.58	46.09	53.07	52.84	45.45	32.73	18.28	6.30	0.63	
B-15.0	0.84	8.17	22.77	39.82	54.43	62.61	62.34	53.70	38.85	21.87	7.66	0.77	
B0.0	0.92	8.92	24.66	42.99	58.64	67.42	67.14	57.86	41.94	23.70	8.36	0.84	
B15.0	0.92	8.93	24.66	43.00	58.65	67.44	67.15	57.86	41.96	23.70	8.38	0.84	
B30.0	0.84	8.20	22.76	39.86	54.44	62.65	62.38	53.71	38.90	21.88	7.70	0.77	
B45.0	0.68	6.77	19.03	33.63	46.10	53.14	52.91	45.49	32.82	18.30	6.36	0.63	
B60.0	0.48	4.82	13.76	24.70	34.11	39.43	39.27	33.65	24.10	13.23	4.53	0.44	
B75.0	0.26	2.66	7.69	14.07	19.61	22.78	22.69	19.36	13.74	7.41	2.53	0.25	
B90.0	0.09	0.83	2.38	4.40	6.16	7.14	7.12	6.07	4.28	2.28	0.79	0.09	
Total	6.59	64.26	180.71	319.01	438.08	504.90	502.78	432.26	311.25	173.58	60.33	6.04	

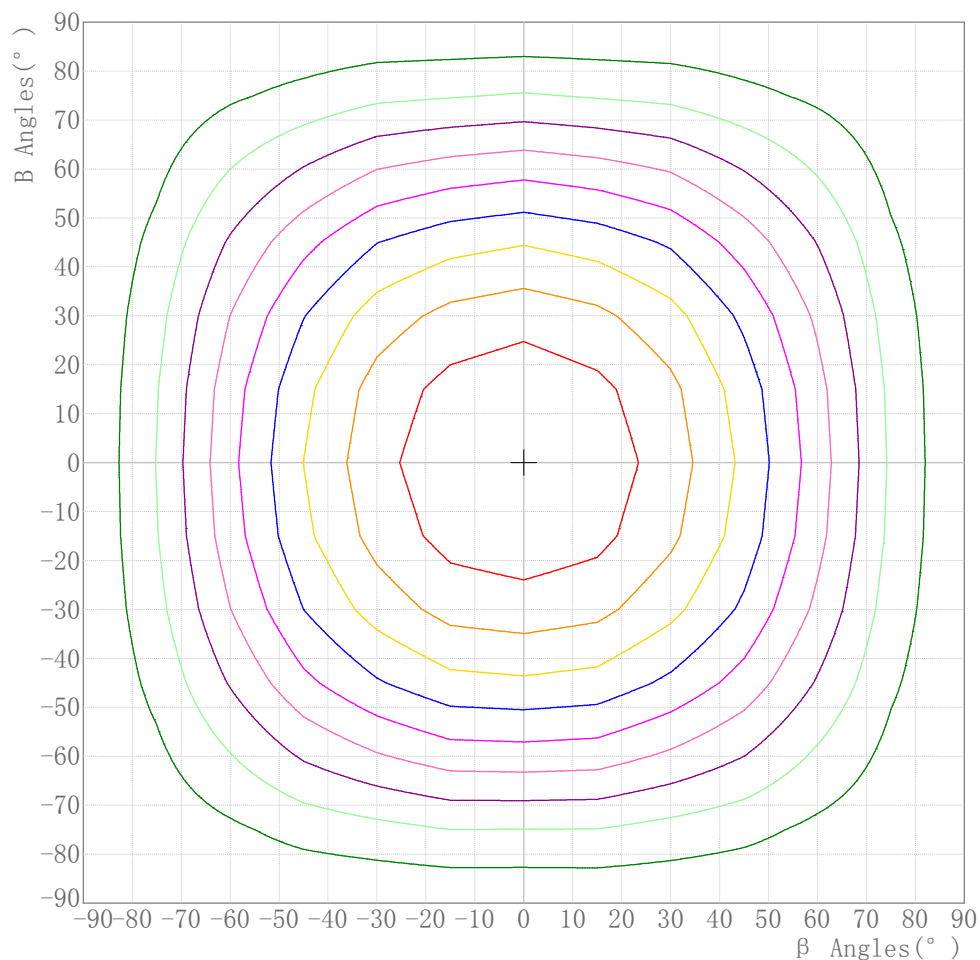
β 90.0	Total
B-90.0	42.07
B-75.0	132.48
B-60.0	231.92
B-45.0	315.43
B-30.0	373.84
B-15.0	403.39
B0.0	403.50
B15.0	374.09
B30.0	315.87
B45.0	232.51
B60.0	133.06
B75.0	41.63
B90.0	
Total	2999.80

IES Flood Report
Photometric Filename: HCP-3329284.IES

Rectangle ISO Lighting Intensity Diagram

Lum. Name: HCP-3329284	Lum. Catalog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/25

ISO Lighting Intensity Curve



Curves:
[Unit: cd]
[IMax] =1028.412
— [IMax*90%]=925.571
— [IMax*80%]=822.730
— [IMax*70%]=719.888
— [IMax*60%]=617.047
— [IMax*50%]=514.206
— [IMax*40%]=411.365
— [IMax*30%]=308.524
— [IMax*20%]=205.682
— [IMax*10%]=102.841

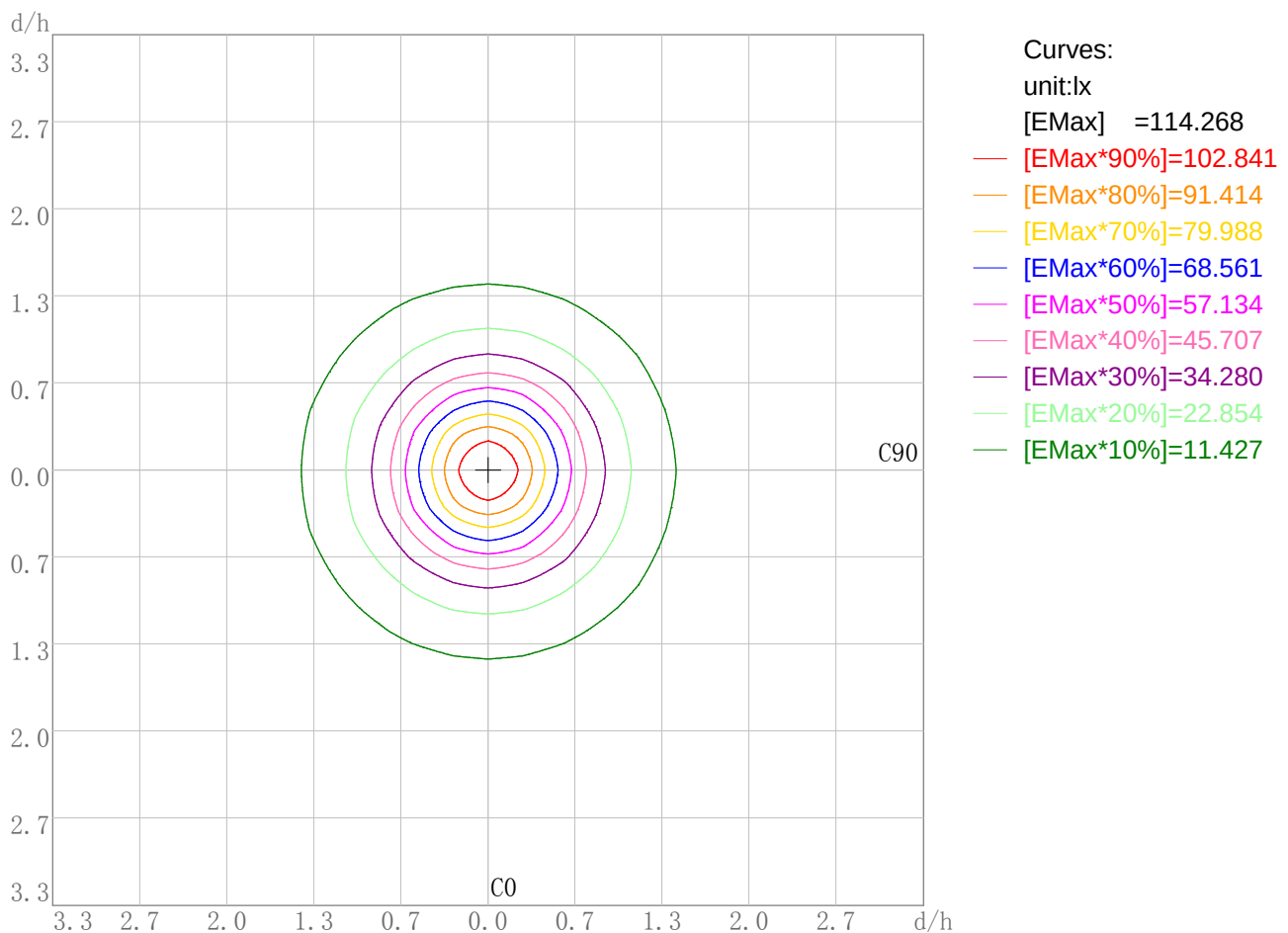
Maximum Light Intensity(cd): 1028.41
Maximum Cand.@Angle: H=0.0°,V=0.0°

IES Flood Report
Photometric Filename: HCP-3329284.IES

Plane ISO-Illuminance Diagram

Lum. Name: HCP-3329284	Lum. Catalog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/25

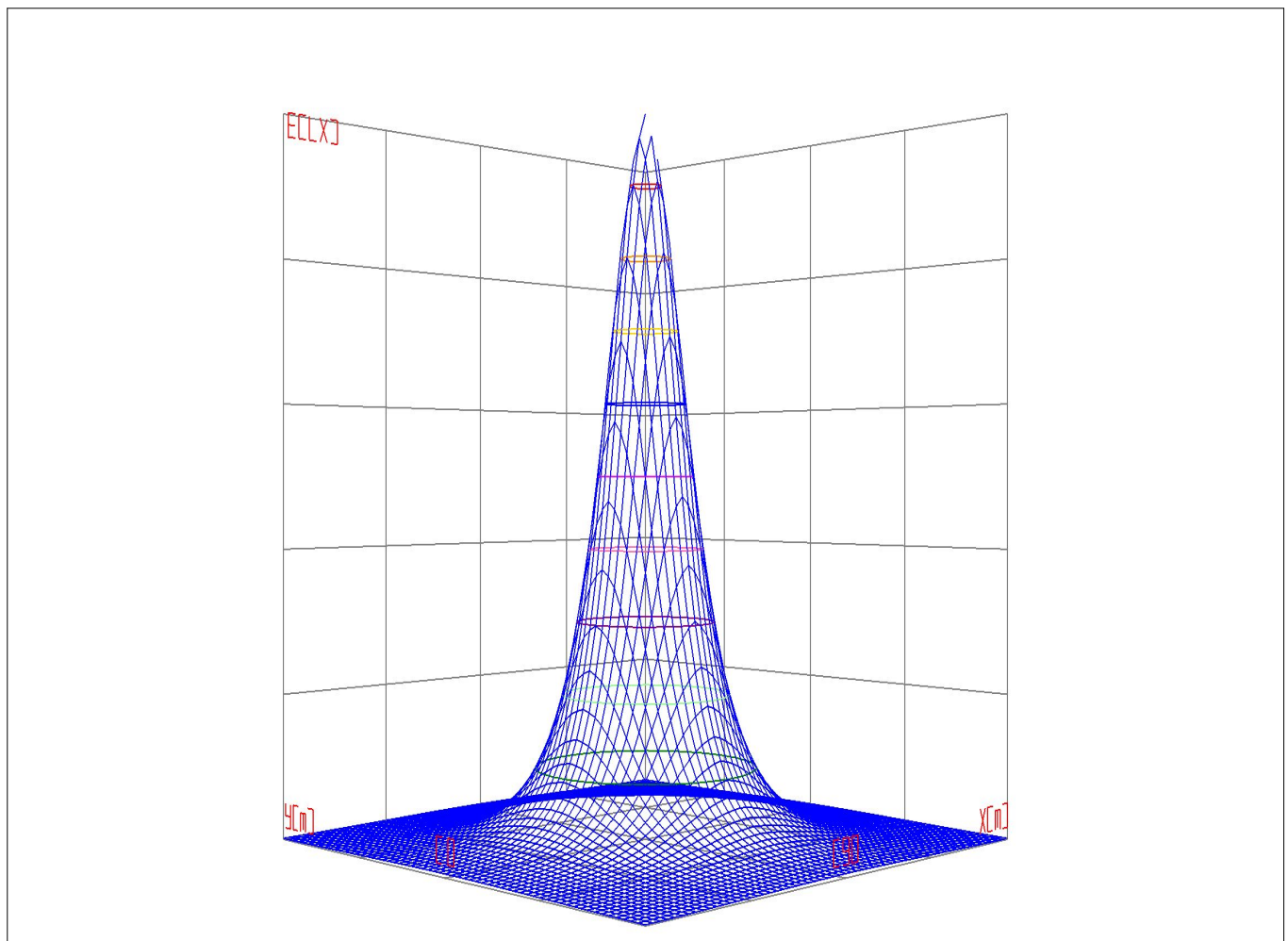
Plane ISO-Illuminance Curve



3D Plane ISO Illuminance Diagram

Lum. Name: HCP-3329284	Lum. Catalog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/25

3D Plane Illuminance Model

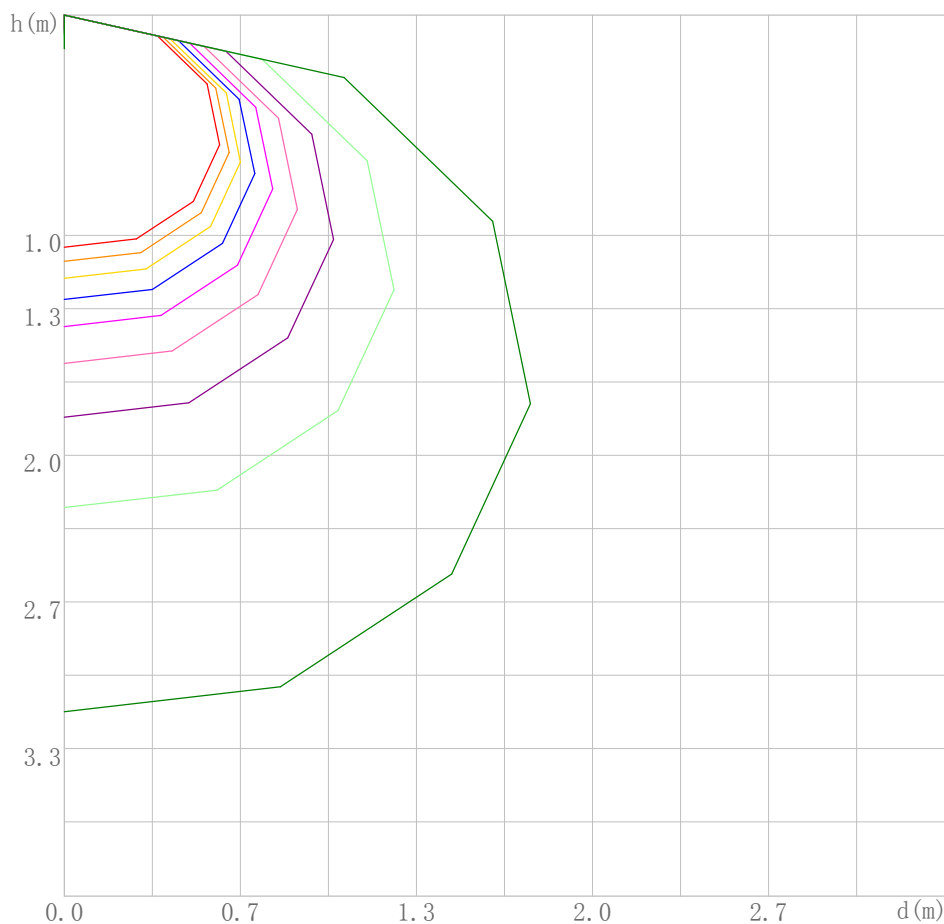


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: HCP-3329284	Lum. Catalog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/25

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] = 996.599

— [EMax*90%]=896.939

— [EMax*80%]=797.279

— [EMax*70%]=697.619

— [EMax*60%]=597.959

— [EMax*50%]=498.299

— [EMax*40%]=398.640

— [EMax*30%]=298.980

— [EMax*20%]=199.320

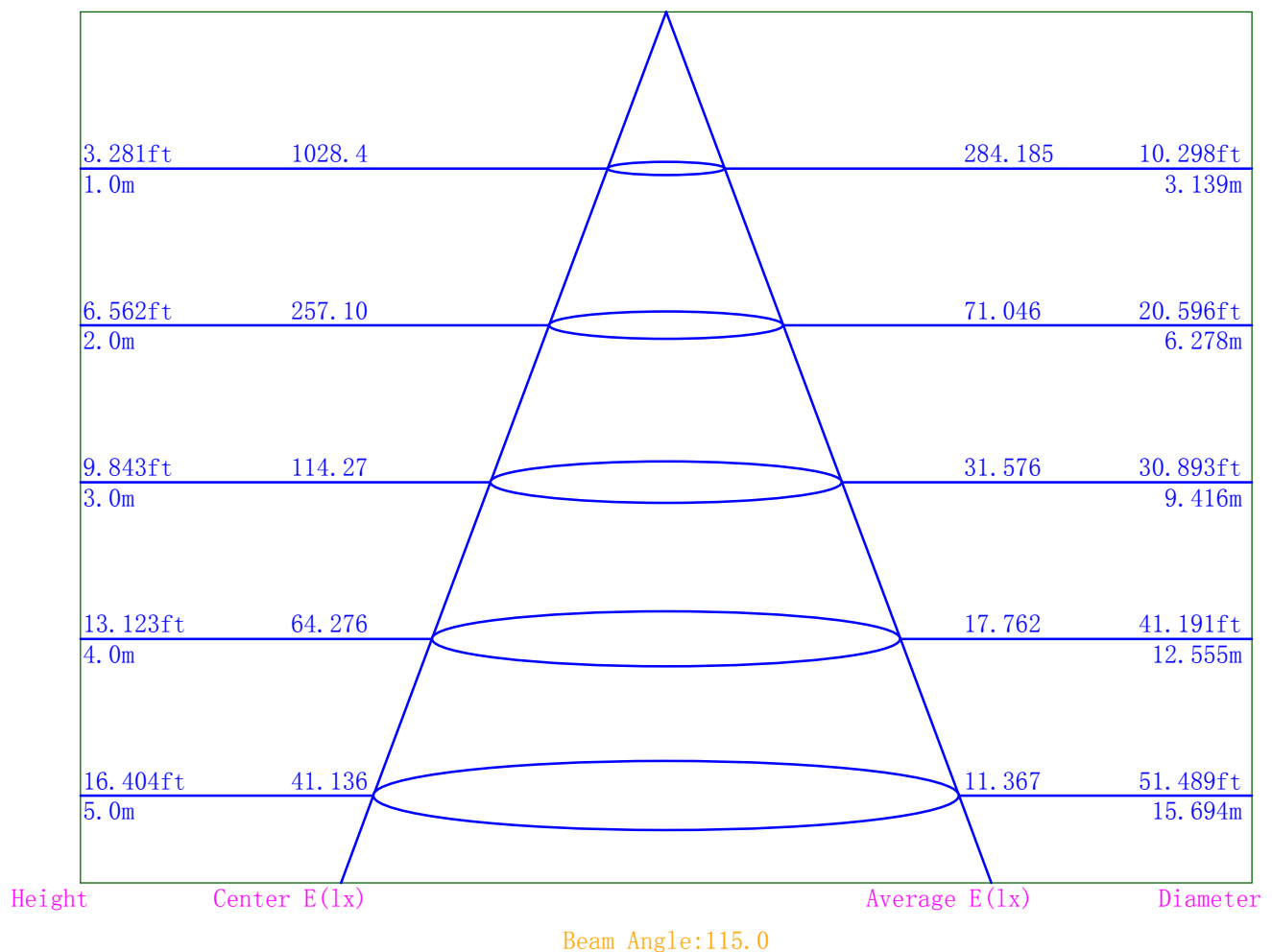
— [EMax*10%]=99.660

Space Plane Maximum Illuminance and @Angle:996.60lx,0.0deg
 Plane Maximum Lighting Intensity and @Angle:1028.412cd,0deg

Illuminance-Distance Diagram

Lum. Name: HCP-3329284	Lum. Catalog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/25

Illuminance-Distance Curve



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	2. 20	3. 67	3. 88	3. 82	3. 42	6. 85	7. 36	10. 48	11. 64	9. 49	8. 34	6. 04
B-75. 0	2. 20	35. 10	84. 49	139. 05	173. 44	205. 35	203. 58	202. 96	168. 77	132. 86	78. 84	33. 26
B-60. 0	2. 20	81. 56	200. 03	320. 46	400. 87	462. 80	468. 48	458. 26	392. 07	308. 58	187. 84	74. 18
B-45. 0	2. 20	131. 22	316. 41	488. 90	606. 76	689. 07	702. 88	682. 95	594. 77	472. 65	298. 98	119. 00
B-30. 0	2. 20	173. 32	409. 07	617. 35	763. 92	859. 85	881. 26	852. 34	749. 27	597. 78	387. 75	157. 41
B-15. 0	2. 20	200. 44	467. 25	695. 75	860. 89	963. 71	991. 25	955. 50	844. 68	674. 00	443. 41	182. 39
B0. 0	2. 20	209. 42	487. 29	720. 81	893. 80	996. 60	1028. 41	988. 05	877. 10	698. 25	462. 68	190. 80
B15. 0	2. 20	199. 78	469. 22	693. 74	863. 98	961. 02	995. 00	952. 65	847. 95	672. 16	445. 68	182. 40
B30. 0	2. 20	172. 16	412. 40	613. 20	769. 62	854. 34	888. 05	846. 83	755. 29	594. 21	391. 96	157. 28
B45. 0	2. 20	130. 27	321. 05	483. 20	615. 10	681. 67	712. 66	675. 82	603. 64	468. 13	305. 01	119. 04
B60. 0	2. 20	80. 55	205. 04	313. 58	409. 99	453. 92	479. 32	450. 16	402. 33	304. 00	194. 47	74. 32
B75. 0	2. 20	33. 63	88. 05	133. 02	181. 18	197. 39	213. 85	196. 07	178. 20	129. 40	84. 19	33. 31
B90. 0	2. 20	1. 71	3. 84	3. 54	6. 65	5. 17	5. 23	5. 07	5. 22	3. 11	2. 32	1. 76
V/H	β 90. 0											
B-90. 0	2. 31											
B-75. 0	2. 31											
B-60. 0	2. 31											
B-45. 0	2. 31											
B-30. 0	2. 31											
B-15. 0	2. 31											
B0. 0	2. 31											
B15. 0	2. 31											
B30. 0	2. 31											
B45. 0	2. 31											
B60. 0	2. 31											
B75. 0	2. 31											
B90. 0	2. 31											