

IES Flood Report

Photometric Filename: HCP-3328245.IES

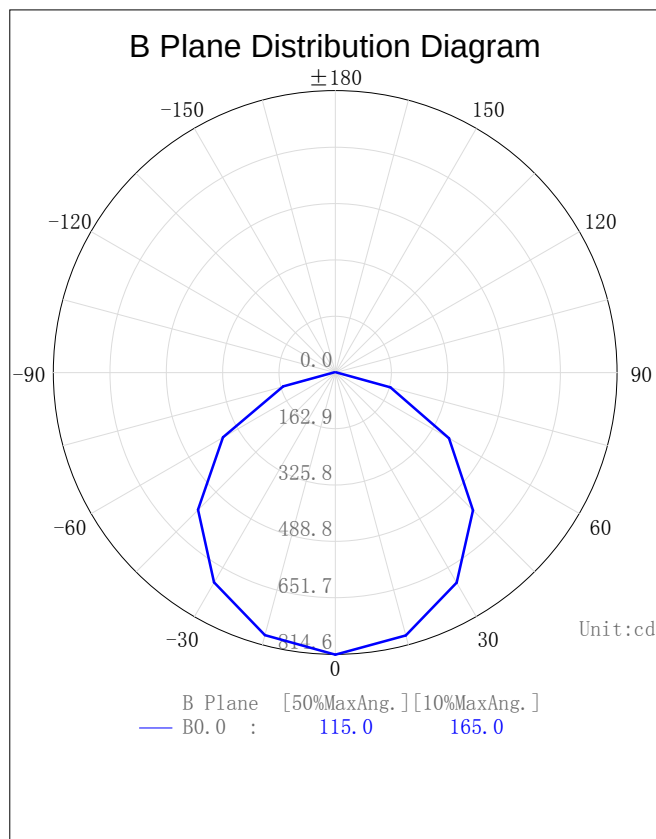
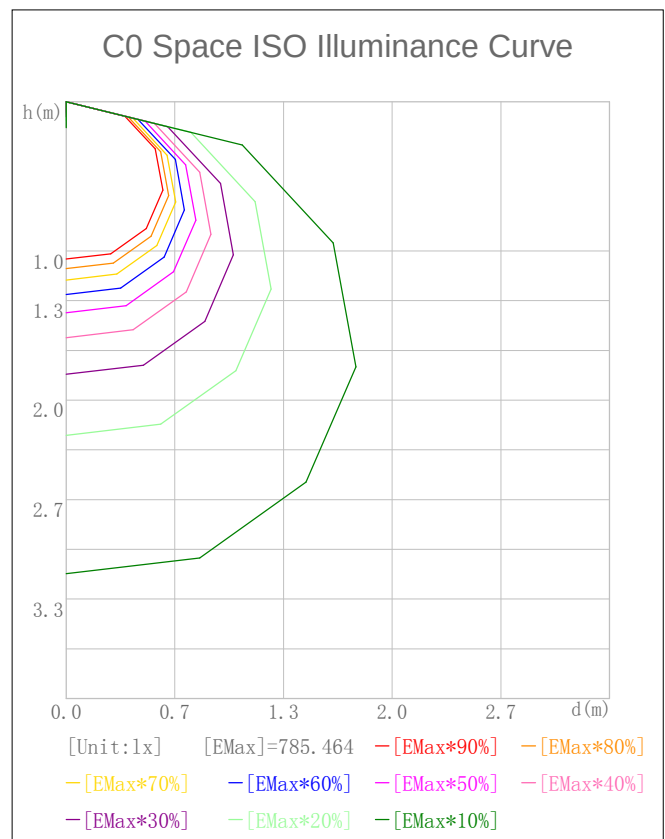
Flood Luminaire Photometric Data

Description Information

Luminary Name: HCP-3328245	Lum. Catalog:	Test ID:
Lamp Name: 2110 5000K	Lamp Catalog:	Test Date: 2019/05/21
Manufacture: HAVIT COMMERCIAL	Shld. Ang(°):	Test Machine: GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H): 0.010m*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): 2606.100	Luminary Flux(lm): 2384.091	Beam Lumens(lm): 1737.93
Rated Power(W):	Luminary Efficiency: 91.48%	Beam Efficiency(%): 72.90
Rated Voltage(V):	Luminary EER(lm/W): 96.444	Field Lumens(lm): 2331.71
Tested Power(W): 24.720	Max. Candela(cd): 814.598	Field Efficiency(%): 97.80
Lamps' Inside: 1	Max Cand@Ang. (°): B=0.0 β=0.0	ErP Φuse(120°): 1856.696lm
Tested Electrics(V, A, pf): 24.0, 1.030, 0.000	Beam Angle(50%) (V, H): 114.8(°), 115.0(°)	IRF(%): 107.741
Lamp Size(W*L*H): 0.010m*0.100m*0.010m	Field Angle(10%) (V, H): 166.9(°), 165.0(°)	



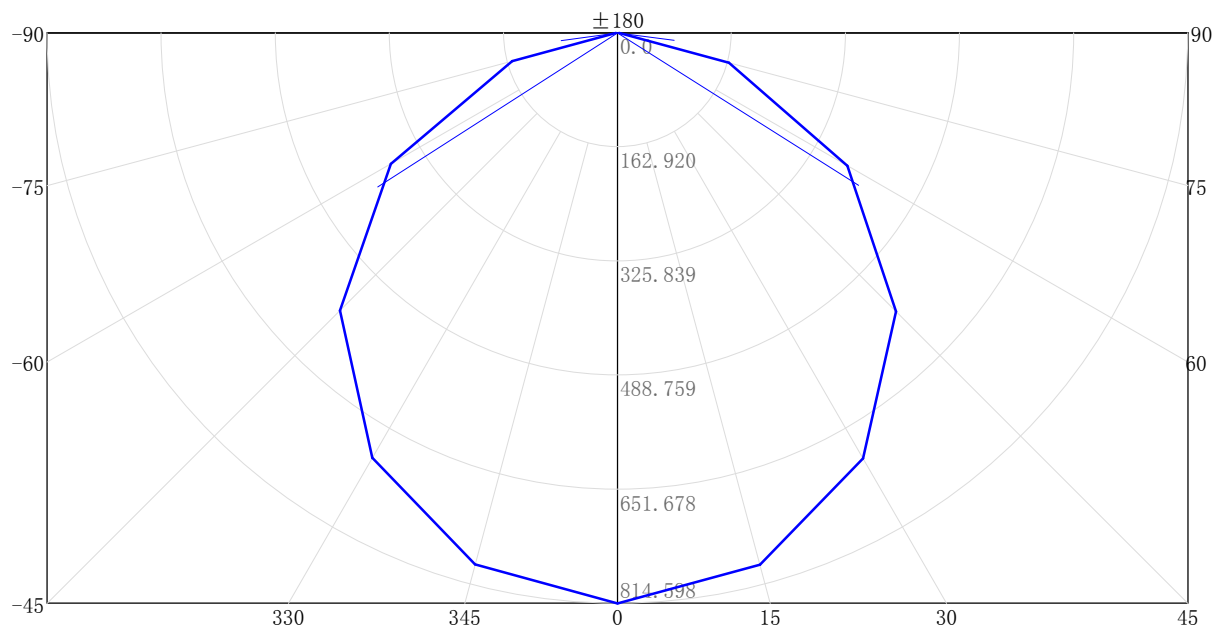
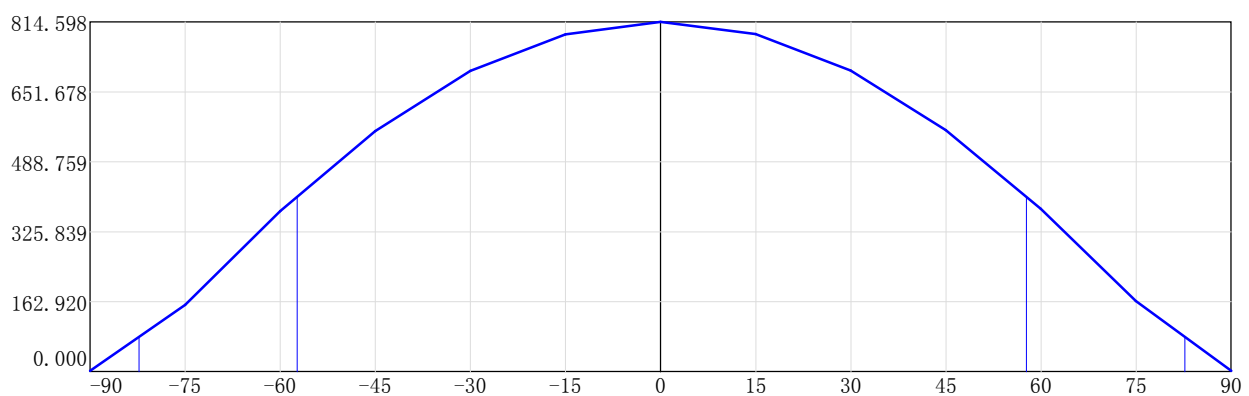
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2D Plane Light Intensity Distribution Curve

Lum. Name: HCP-3328245	Lum. Catalog:	Test ID:
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Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

B Plane Distribution Diagram

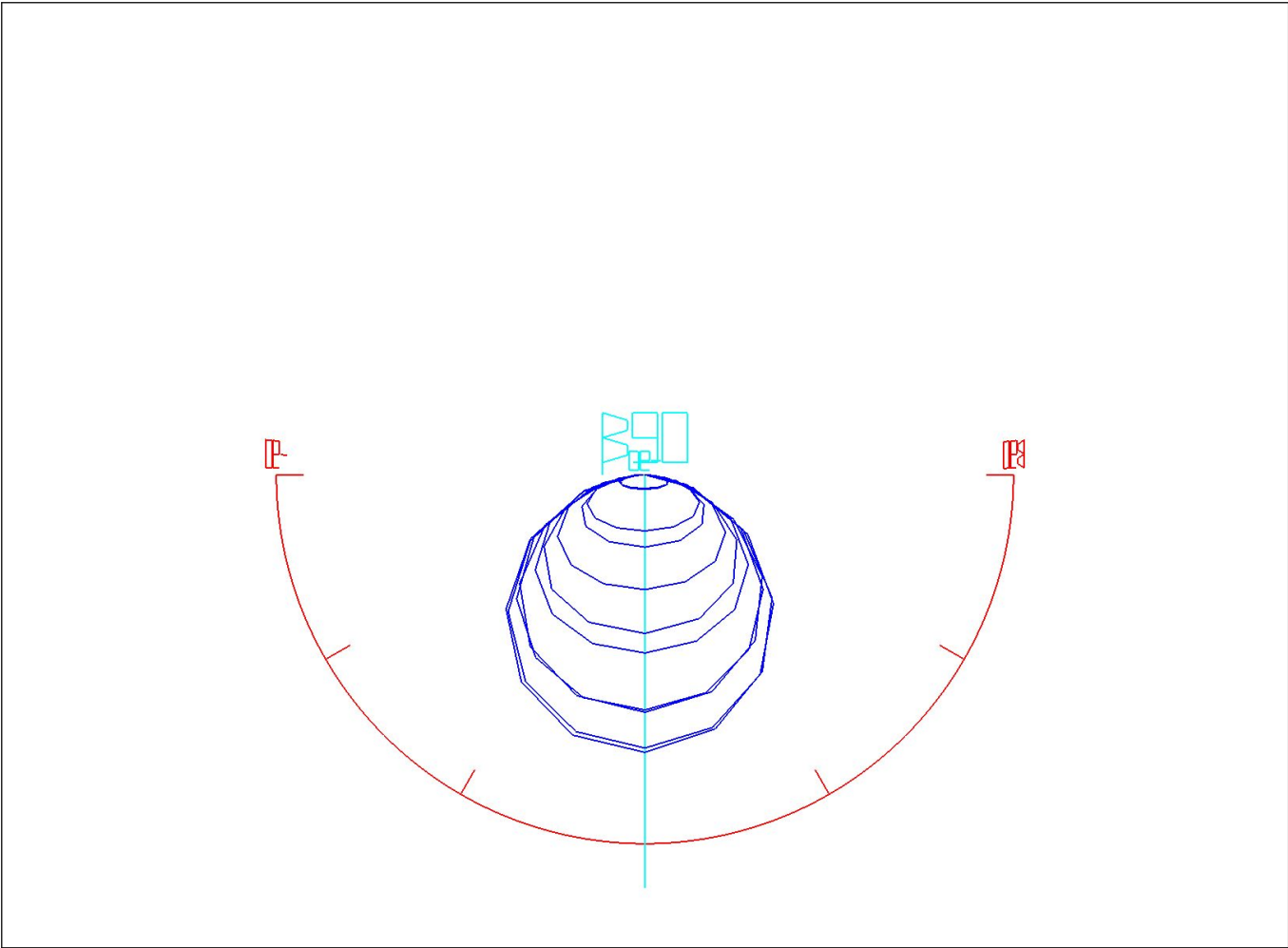


B Plane [50%MaxAng.] [10%MaxAng.] Unit:cd
 B0.0 : 115.0 165.0

3D Light Intensity Distribution Modal

Lum. Name: HCP-3328245	Lum. Catalog:	Test ID:
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Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

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

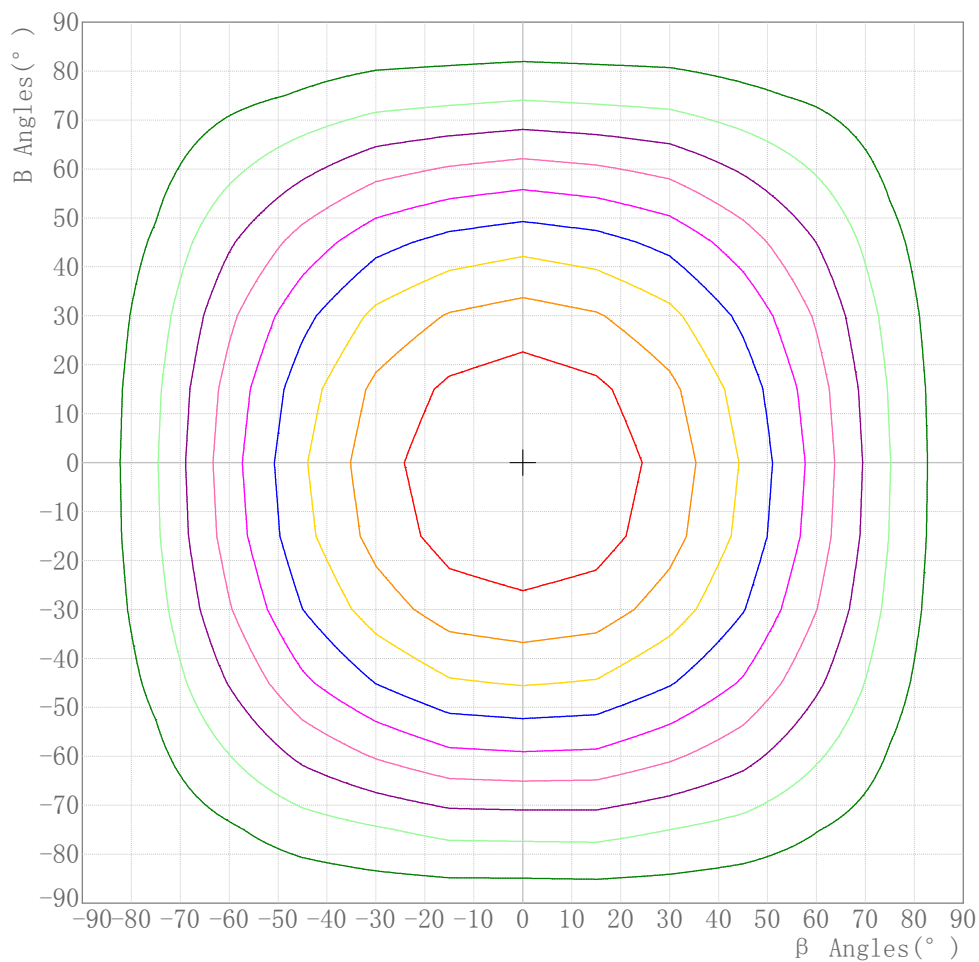
	β -90.0	β -75.0	β -60.0	β -45.0	β -30.0	β -15.0	β 0.0	β 15.0	β 30.0	β 45.0	β 60.0	β 75.0	β 90.0
B-90.0													
B-75.0	0.08	0.75	2.29	4.29	6.17	7.24	7.36	6.49	4.70	2.67	1.00	0.12	
B-60.0	0.21	2.10	6.39	11.79	16.72	19.60	19.74	17.09	12.29	6.88	2.43	0.27	
B-45.0	0.37	3.74	11.05	20.01	27.95	32.53	32.64	28.24	20.41	11.48	4.05	0.43	
B-30.0	0.52	5.22	15.06	26.84	37.14	43.05	43.13	37.34	27.12	15.38	5.49	0.58	
B-15.0	0.64	6.28	17.83	31.51	43.38	50.19	50.24	43.51	31.68	18.06	6.51	0.68	
B0.0	0.69	6.81	19.15	33.71	46.30	53.52	53.55	46.38	33.82	19.32	7.00	0.73	
B15.0	0.69	6.75	18.97	33.41	45.86	53.01	53.03	45.92	33.50	19.13	6.94	0.73	
B30.0	0.62	6.12	17.30	30.62	42.10	48.70	48.73	42.18	30.75	17.50	6.33	0.66	
B45.0	0.49	4.96	14.22	25.43	35.12	40.72	40.77	35.26	25.65	14.51	5.21	0.54	
B60.0	0.34	3.43	10.00	18.20	25.38	29.56	29.66	25.63	18.56	10.38	3.70	0.38	
B75.0	0.18	1.81	5.35	9.95	14.05	16.49	16.61	14.37	10.38	5.77	2.08	0.22	
B90.0	0.06	0.54	1.57	2.93	4.16	4.92	4.98	4.33	3.15	1.77	0.67	0.08	
Total	4.89	48.52	139.19	248.70	344.34	399.54	400.46	346.74	252.00	142.86	51.43	5.43	

β 90.0	Total
B-90.0	43.17
B-75.0	115.51
B-60.0	192.91
B-45.0	256.89
B-30.0	300.52
B-15.0	320.99
B0.0	317.94
B15.0	291.61
B30.0	242.87
B45.0	175.22
B60.0	97.27
B75.0	29.18
B90.0	2384.09
Total	

Rectangle ISO Lighting Intensity Diagram

Lum. Name: HCP-3328245	Lum. Catalog:	Test ID:
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Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

ISO Lighting Intensity Curve



Maximum Light Intensity(cd): 814.60

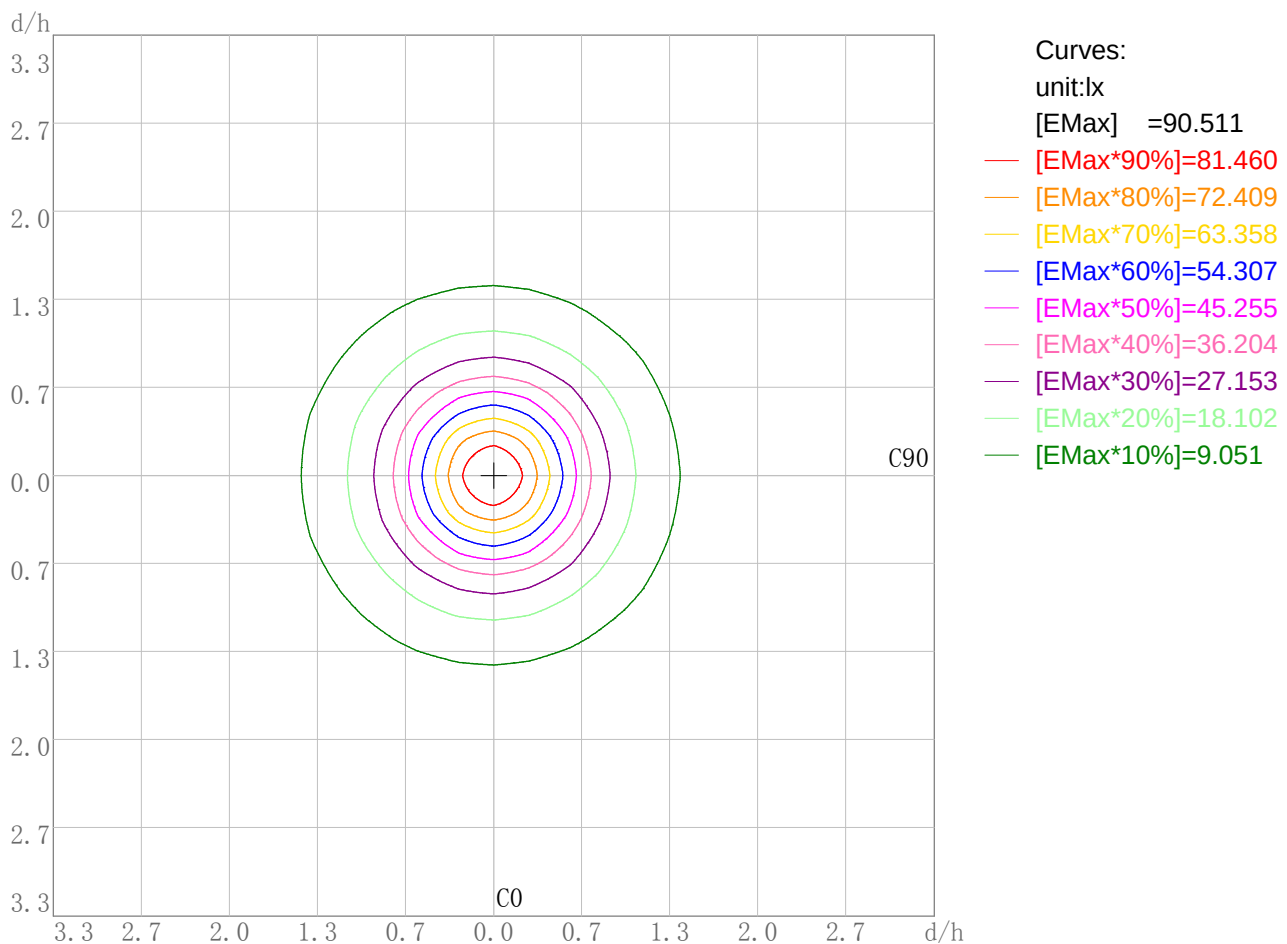
Maximum Cand.@Angle: H=0.0°,V=0.0°

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Plane ISO-Illuminance Diagram

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Plane ISO-Illuminance Curve

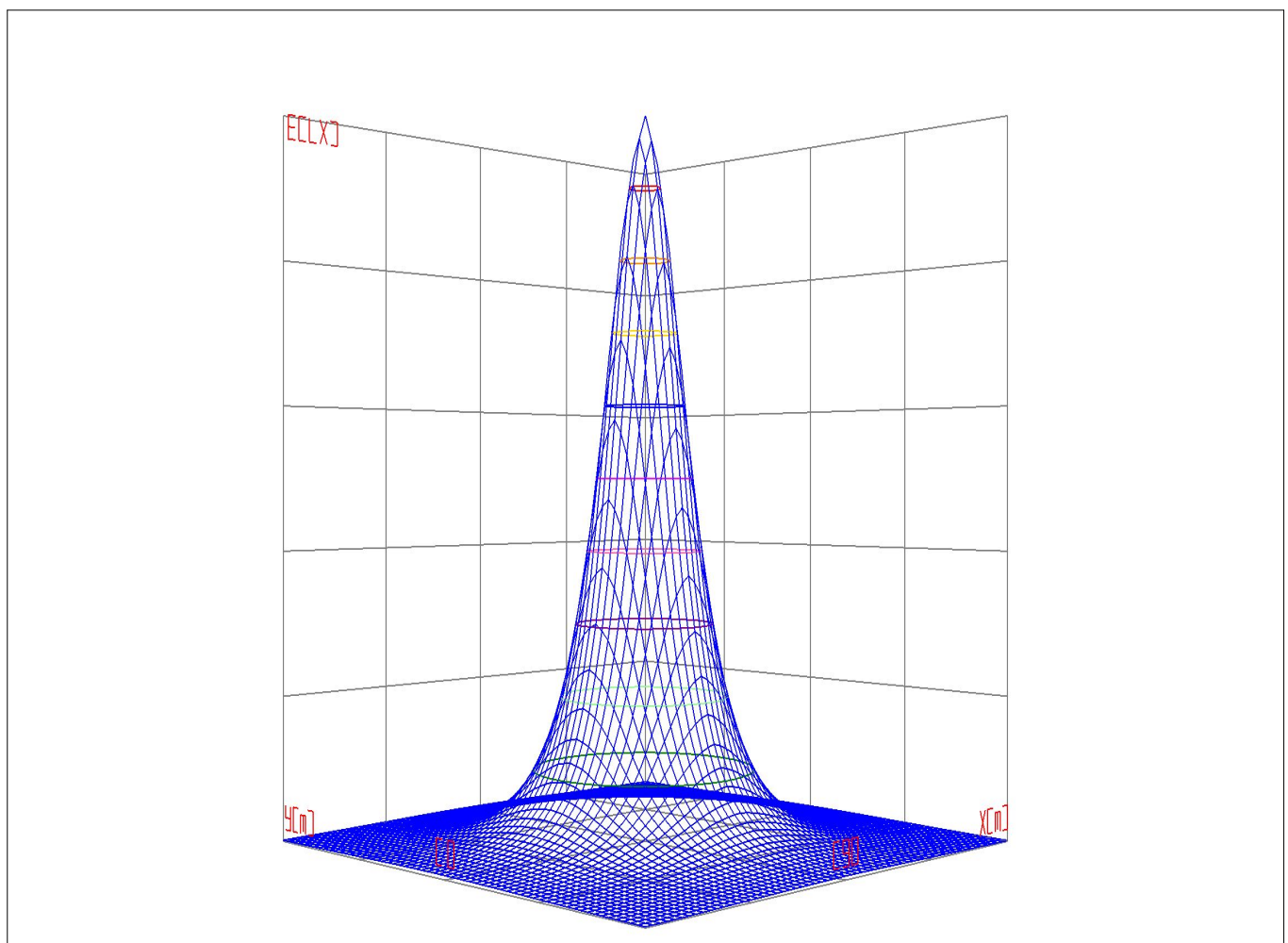


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 90.51
Working Plane Maximum Illuminance Position(d/h): H0.0 V0.0

3D Plane ISO Illuminance Diagram

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Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

3D Plane Illuminance Model

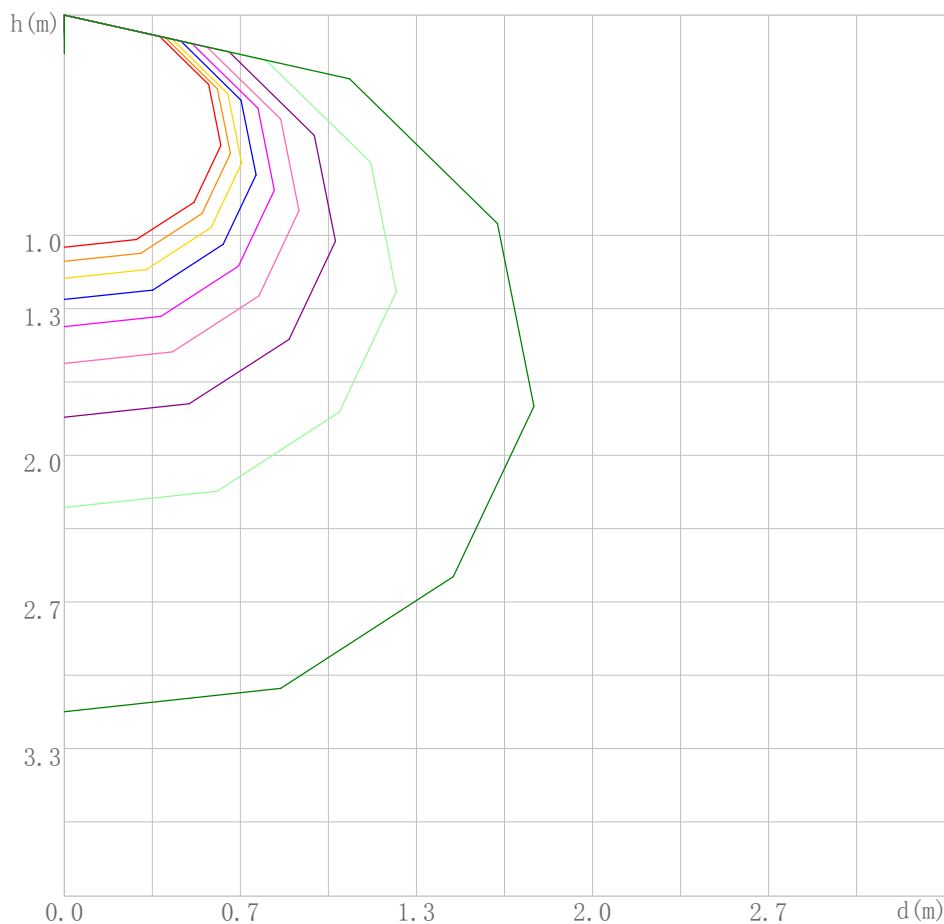


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: HCP-3328245	Lum. Catalog:	Test ID:
Lamp Name: 2110 5000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] = 785.464

— [EMax*90%]=706.918

— [EMax*80%]=628.371

— [EMax*70%]=549.825

— [EMax*60%]=471.278

— [EMax*50%]=392.732

— [EMax*40%]=314.186

— [EMax*30%]=235.639

— [EMax*20%]=157.093

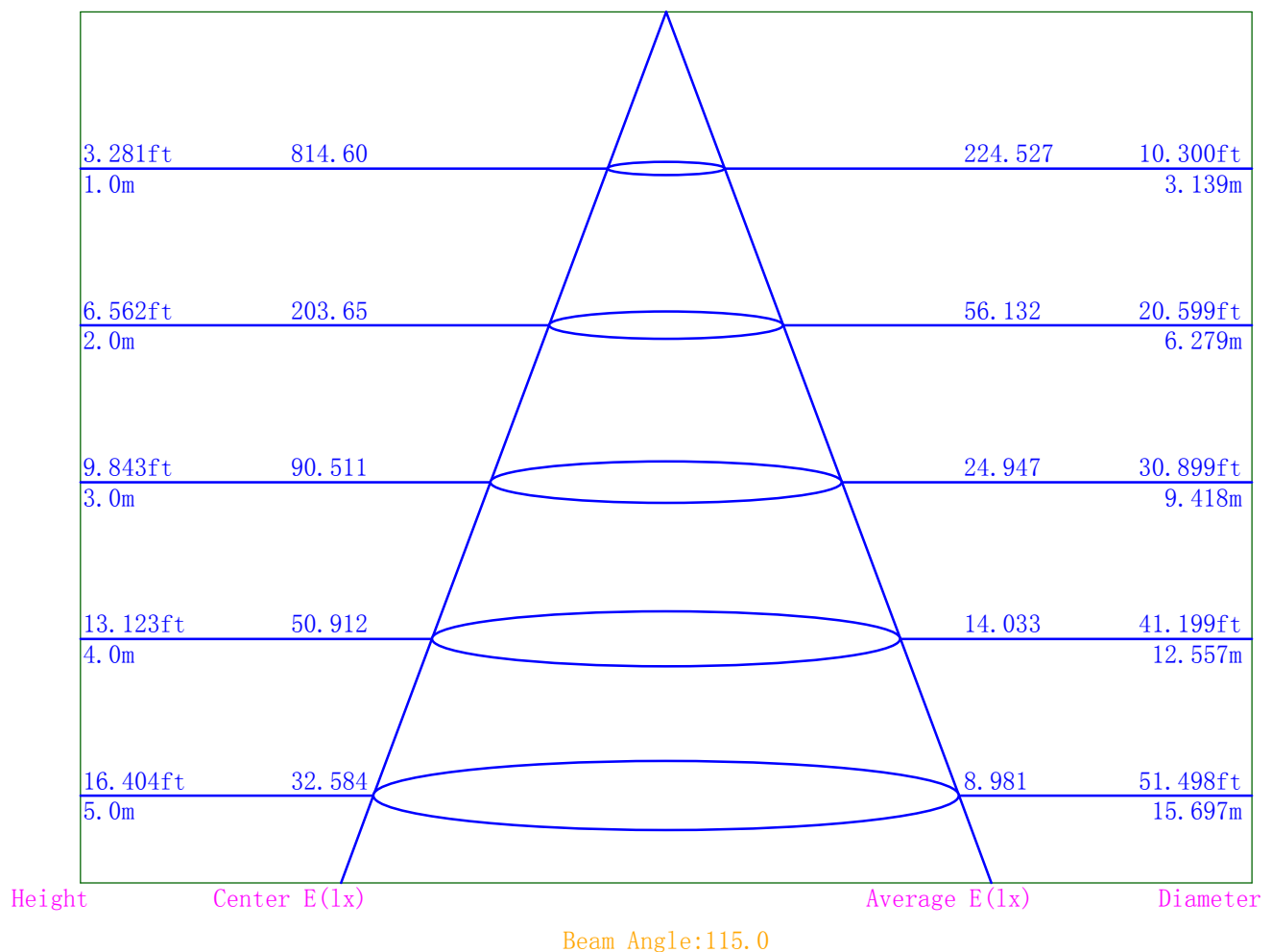
— [EMax*10%]=78.546

Space Plane Maximum Illuminance and @Angle:785.46lx,0.0deg
 Plane Maximum Lighting Intensity and @Angle:814.598cd,0deg

Illuminance-Distance Diagram

Lum. Name: HCP-3328245	Lum. Catalog:	Test ID:
Lamp Name: 2110 5000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

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	2.36	5.48	11.12	16.71	24.13	26.17	26.34	29.11	28.71	22.83	17.85	11.38
B-75.0	2.36	26.84	71.41	121.07	154.63	186.05	188.71	190.49	162.80	132.25	84.01	39.48
B-60.0	2.36	62.98	160.40	261.79	332.10	386.55	395.80	390.33	339.11	272.19	173.04	75.21
B-45.0	2.36	99.93	248.96	391.36	490.76	561.27	576.94	563.93	495.72	398.79	259.71	111.68
B-30.0	2.36	130.71	318.92	488.37	609.92	690.93	712.51	692.83	613.14	493.23	327.09	141.50
B-15.0	2.36	150.21	361.37	545.61	680.76	766.63	792.74	767.85	682.56	548.42	367.52	159.80
B0.0	2.36	155.74	373.76	560.47	700.36	785.46	814.60	786.14	701.36	562.42	379.11	164.85
B15.0	2.36	146.93	355.97	533.82	670.22	749.48	779.85	750.02	671.28	536.06	361.74	156.17
B30.0	2.36	124.52	308.35	465.45	589.34	658.05	687.68	659.10	591.49	469.44	315.69	134.51
B45.0	2.36	91.64	234.22	359.12	461.79	515.68	542.21	517.85	465.59	365.77	243.70	102.41
B60.0	2.36	54.62	143.61	224.43	297.40	332.96	354.38	336.44	303.62	234.04	154.75	65.30
B75.0	2.36	20.70	57.77	88.99	123.31	136.19	149.90	139.99	130.30	98.09	67.85	30.70
B90.0	2.36	2.08	2.10	2.11	2.10	2.07	2.11	2.12	2.10	2.12	2.10	2.10

V/H	β 90.0
B-90.0	2.40
B-75.0	2.40
B-60.0	2.40
B-45.0	2.40
B-30.0	2.40
B-15.0	2.40
B0.0	2.40
B15.0	2.40
B30.0	2.40
B45.0	2.40
B60.0	2.40
B75.0	2.40
B90.0	2.40