

IES Flood Report

Photometric Filename: HCP-3328242.IES

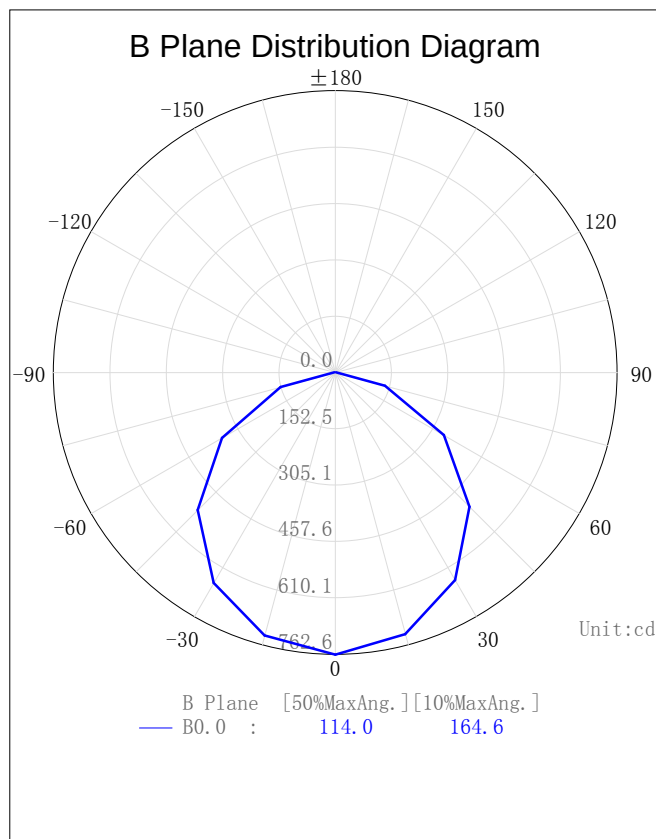
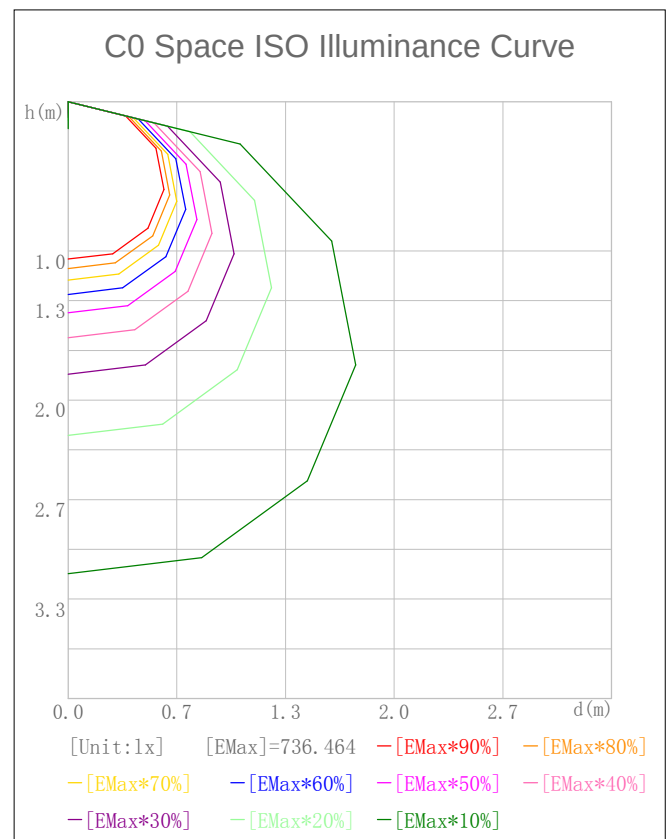
Flood Luminaire Photometric Data

Description Information

Luminary Name: HCP-3328242	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	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): 2506.100	Luminary Flux(lm): 2214.166	Beam Lumens(lm): 1602.24
Rated Power(W):	Luminary Efficiency: 88.35%	Beam Efficiency(%): 72.36
Rated Voltage(V):	Luminary EER(lm/W): 89.642	Field Lumens(lm): 2165.63
Tested Power(W): 24.700	Max. Candela(cd): 762.630	Field Efficiency(%): 97.81
Lamps' Inside: 1	Max Cand@Ang. (°): B=0.0 β=0.0	ErP Φuse(120°): 1725.888lm
Tested Electrics(V, A, pf): 24.0, 1.03, 0.000	Beam Angle(50%) (V, H): 114.2(°), 114.0(°)	IRF(%): 108.731
Lamp Size(W*L*H): 0.010m*0.100m*0.010m	Field Angle(10%) (V, H): 167.0(°), 164.6(°)	



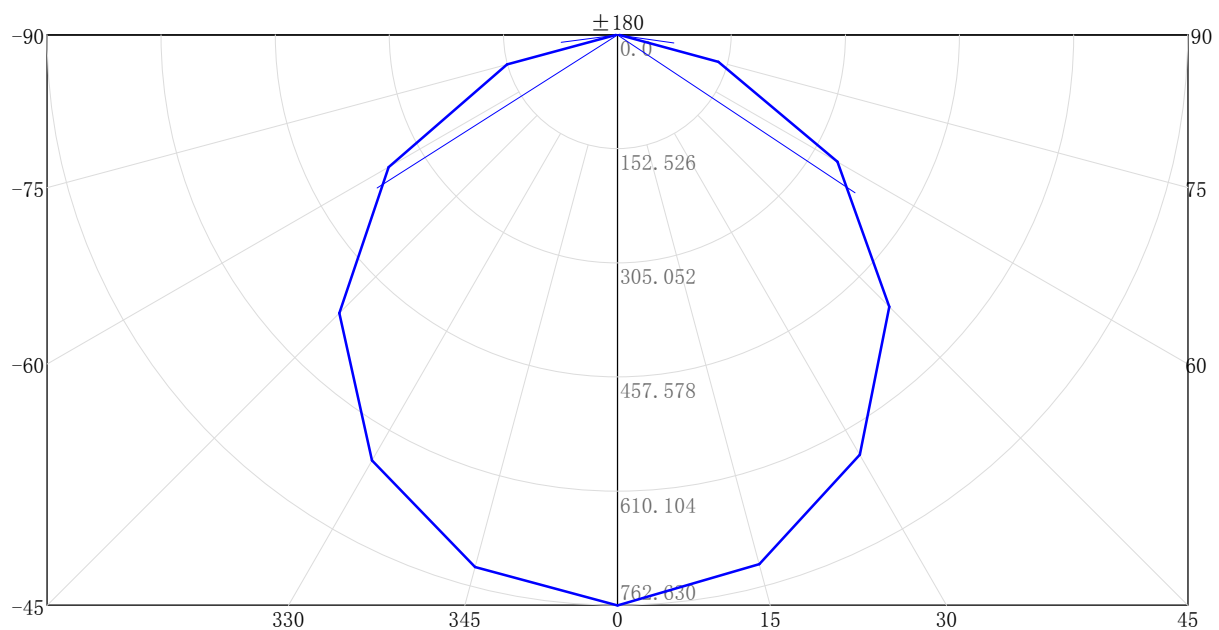
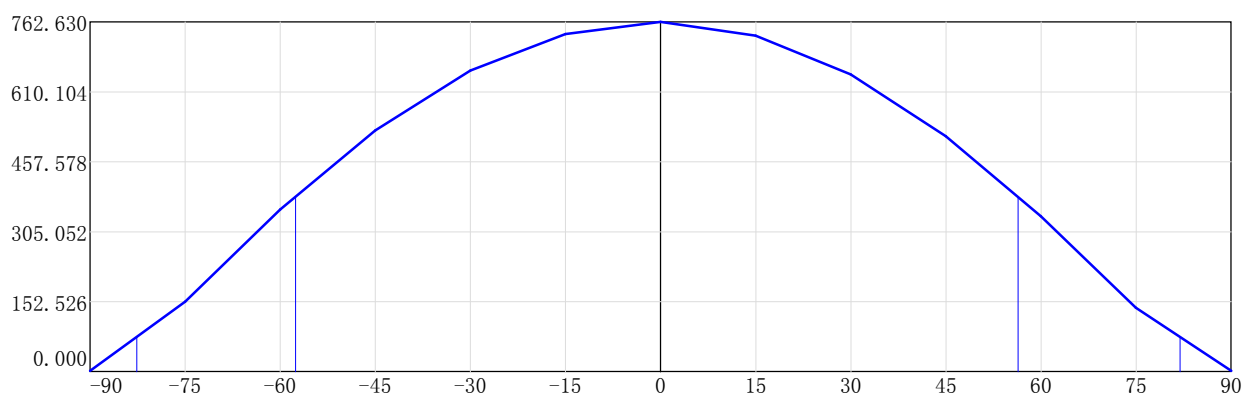
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2D Plane Light Intensity Distribution Curve

Lum. Name: HCP-3328242	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

B Plane Distribution Diagram



— B Plane
 B0.0 : [50%MaxAng.] [10%MaxAng.] Unit:cd
 114.0 164.6

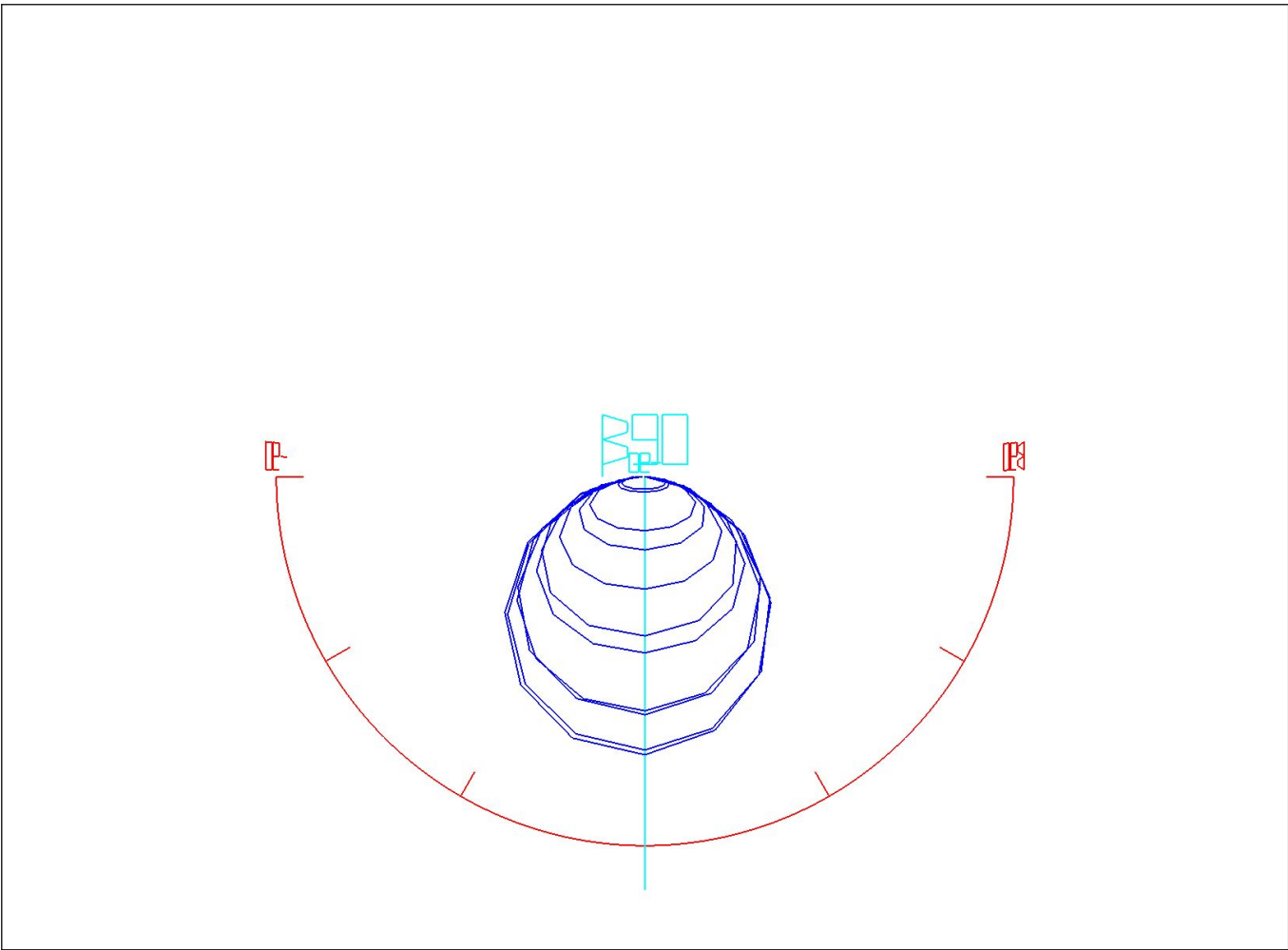
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3D Light Intensity Distribution Modal

Lum. Name: HCP-3328242	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	Test Lab:
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	0.09	0.83	2.46	4.53	6.37	7.33	7.30	6.29	4.44	2.44	0.86	0.10	
B-60.0	0.23	2.21	6.45	11.64	16.26	18.84	18.75	16.02	11.31	6.18	2.09	0.22	
B-45.0	0.39	3.75	10.76	19.20	26.60	30.77	30.65	26.28	18.76	10.36	3.53	0.36	
B-30.0	0.53	5.11	14.41	25.45	35.05	40.49	40.36	34.69	24.95	13.93	4.82	0.49	
B-15.0	0.63	6.07	16.91	29.70	40.80	47.11	46.97	40.41	29.15	16.38	5.74	0.58	
B0.0	0.68	6.52	18.07	31.67	43.46	50.18	50.04	43.05	31.10	17.52	6.17	0.62	
B15.0	0.67	6.45	17.83	31.29	42.93	49.57	49.44	42.53	30.73	17.29	6.10	0.61	
B30.0	0.60	5.83	16.22	28.56	39.22	45.31	45.19	38.86	28.04	15.72	5.51	0.55	
B45.0	0.49	4.74	13.30	23.61	32.51	37.60	37.50	32.20	23.17	12.87	4.46	0.44	
B60.0	0.34	3.31	9.37	16.84	23.32	27.02	26.94	23.07	16.48	9.02	3.09	0.31	
B75.0	0.19	1.79	5.07	9.20	12.81	14.87	14.81	12.63	8.94	4.82	1.65	0.17	
B90.0	0.07	0.55	1.51	2.73	3.79	4.38	4.36	3.71	2.63	1.42	0.51	0.06	
Total	4.92	47.16	132.35	234.42	323.11	373.46	372.32	319.74	229.70	127.95	44.52	4.51	

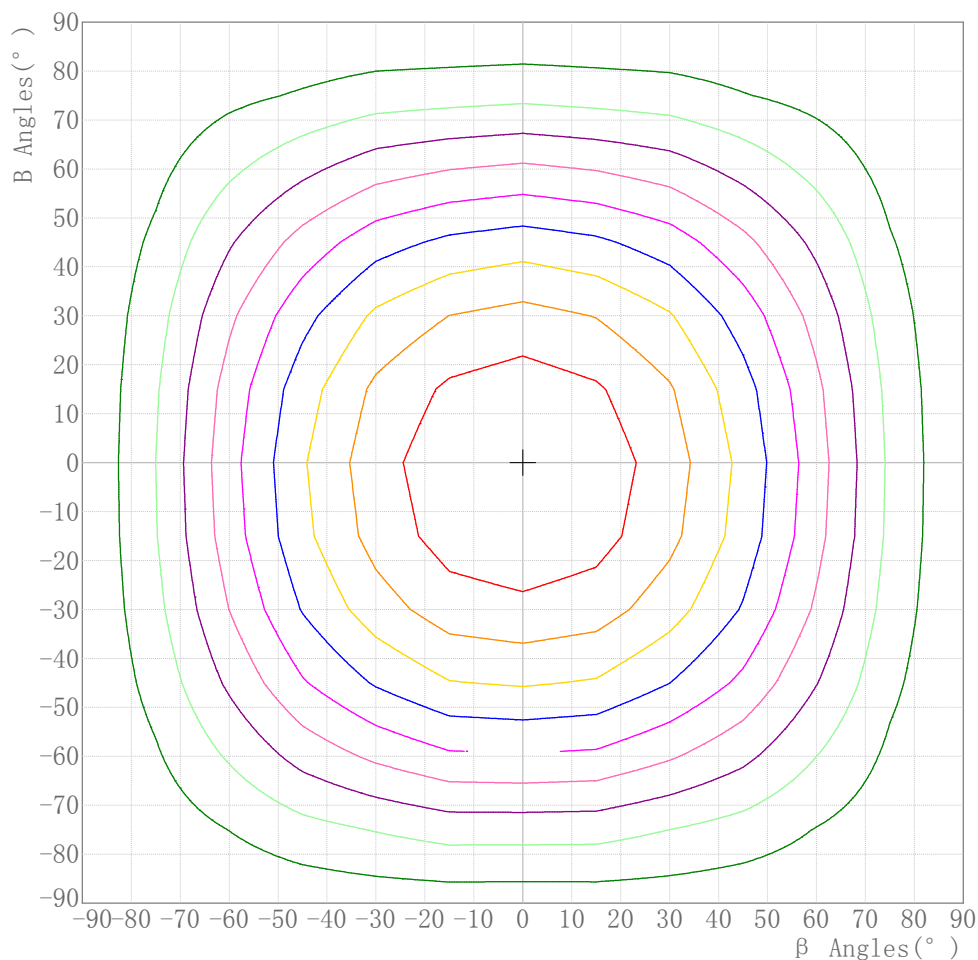
β 90.0	Total
B-90.0	43.04
B-75.0	110.19
B-60.0	181.42
B-45.0	240.28
B-30.0	280.46
B-15.0	299.09
B0.0	295.44
B15.0	269.62
B30.0	222.89
B45.0	159.08
B60.0	86.94
B75.0	25.72
B90.0	2214.17
Total	

IES Flood Report
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Rectangle ISO Lighting Intensity Diagram

Lum. Name: HCP-3328242	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

ISO Lighting Intensity Curve



Curves:
[Unit: cd]
[IMax] =762.630
[IMax*90%]=686.367
[IMax*80%]=610.104
[IMax*70%]=533.841
[IMax*60%]=457.578
[IMax*50%]=381.315
[IMax*40%]=305.052
[IMax*30%]=228.789
[IMax*20%]=152.526
[IMax*10%]=76.263

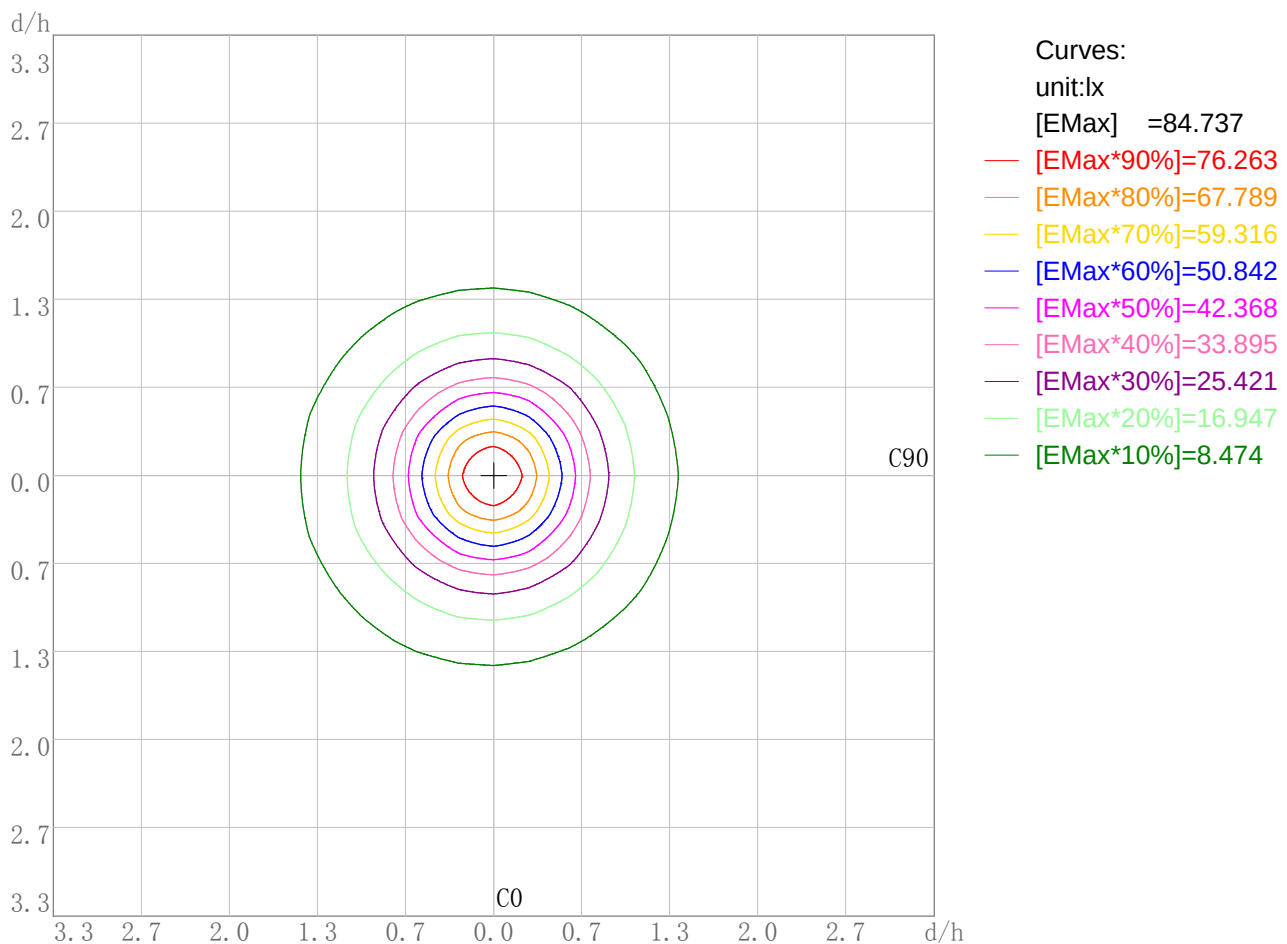
Maximum Light Intensity(cd): 762.63
Maximum Cand.@Angle: H=0.0°,V=0.0°

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Plane ISO-Illuminance Diagram

Lum. Name: HCP-3328242	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

Plane ISO-Illuminance Curve

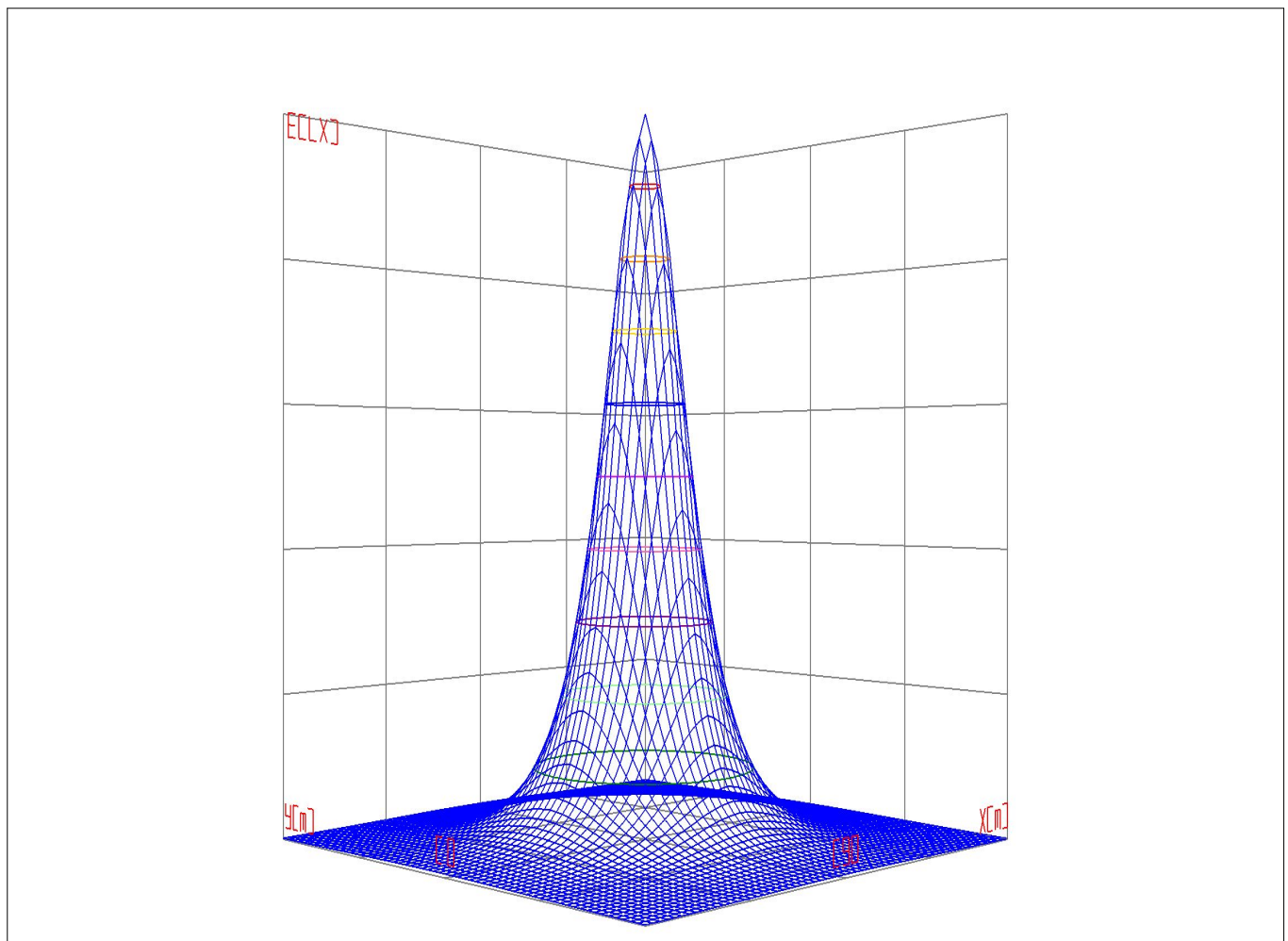


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 84.74
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: HCP-3328242	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

3D Plane Illuminance Model

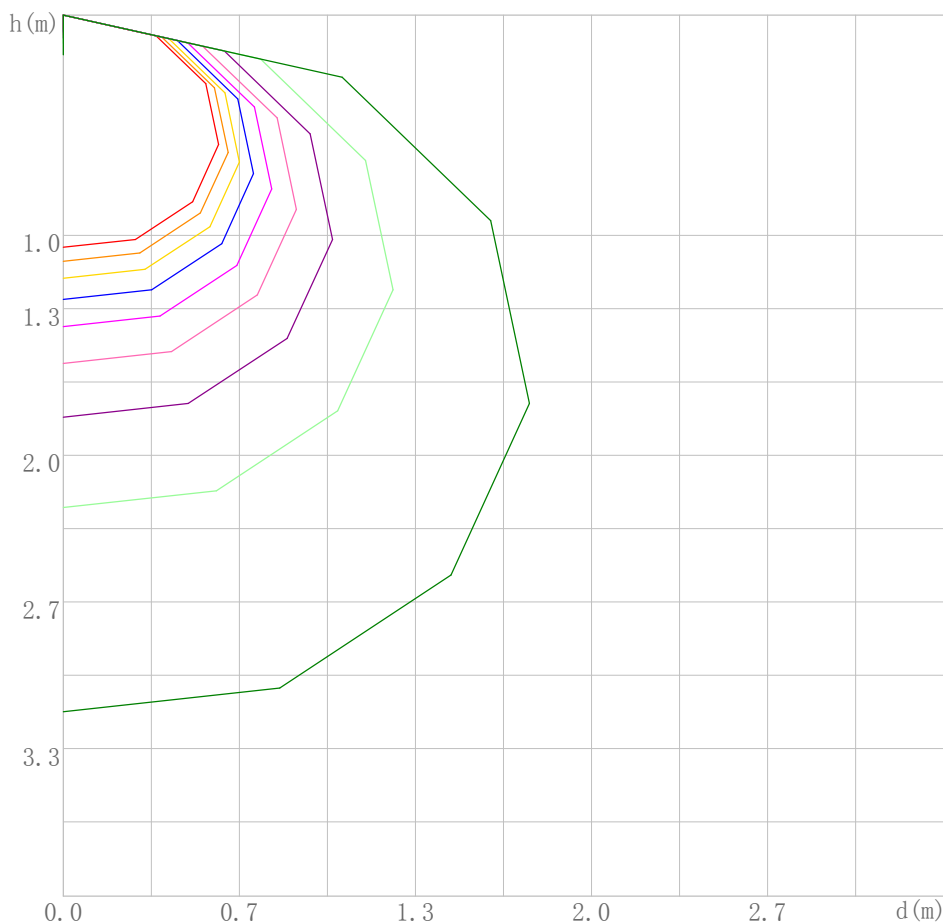


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: HCP-3328242	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

Space ISO Illuminance Curve



Curves:
[Unit: lx]
[EMax] = 736.464

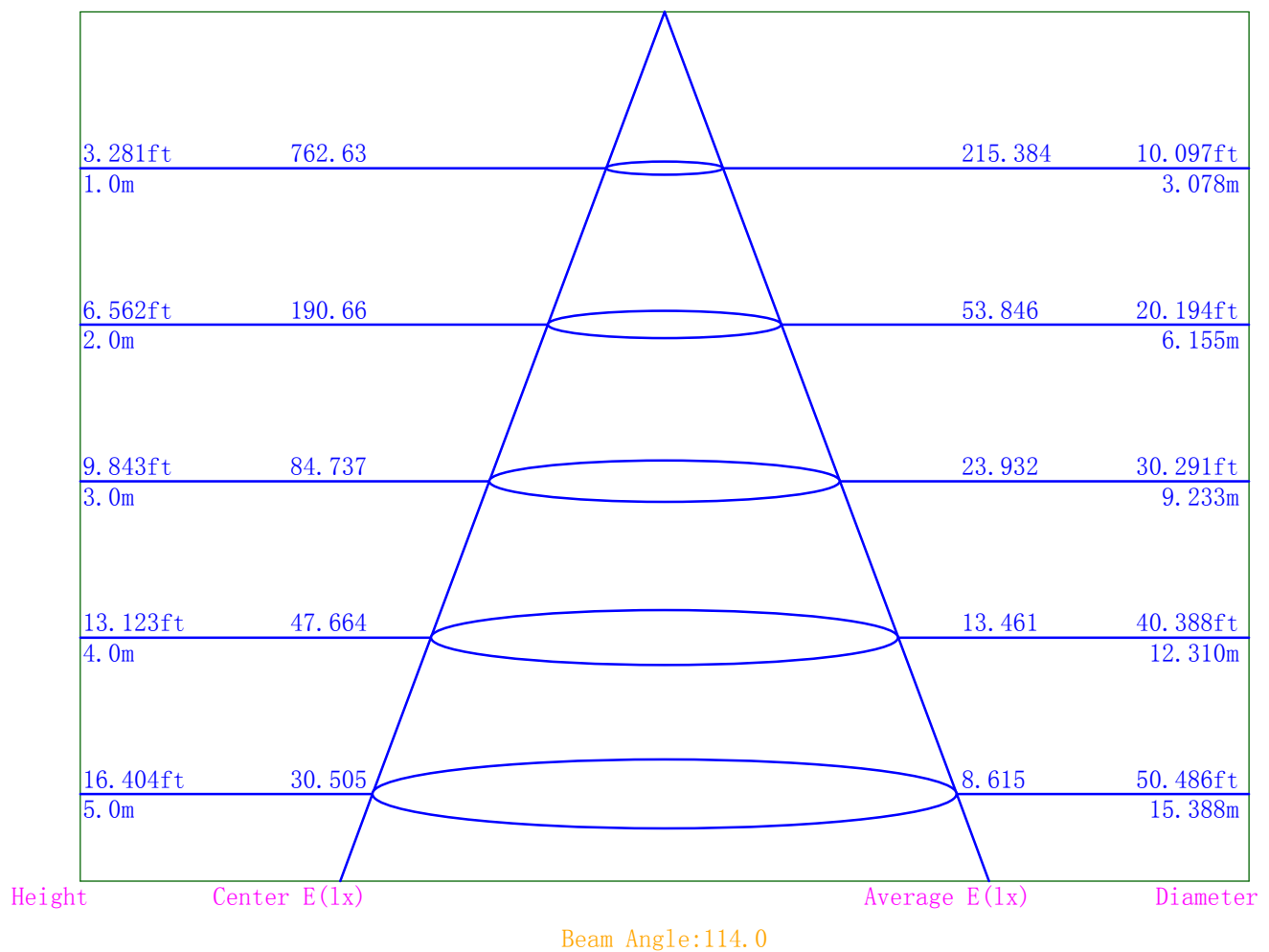
- [EMax*90%]=662.818
- [EMax*80%]=589.171
- [EMax*70%]=515.525
- [EMax*60%]=441.878
- [EMax*50%]=368.232
- [EMax*40%]=294.586
- [EMax*30%]=220.939
- [EMax*20%]=147.293
- [EMax*10%]=73.646

Space Plane Maximum Illuminance and @Angle: 736.46lx, 0.0deg
Plane Maximum Lighting Intensity and @Angle: 762.630cd, 0deg

Illuminance-Distance Diagram

Lum. Name: HCP-3328242	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

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	2.33	6.01	11.60	22.16	30.28	32.68	31.81	33.06	31.00	23.59	17.16	10.23
B-75.0	2.33	31.57	77.31	125.56	156.38	184.20	183.85	182.14	152.31	120.43	73.25	31.32
B-60.0	2.33	67.61	161.23	256.15	320.27	369.19	374.73	366.19	314.01	247.89	152.70	61.89
B-45.0	2.33	102.61	242.55	374.34	465.58	530.11	542.15	526.50	458.25	364.19	231.56	93.56
B-30.0	2.33	130.83	305.62	462.43	574.96	649.95	668.16	645.97	566.81	451.04	292.93	119.59
B-15.0	2.33	148.29	343.35	513.96	639.83	720.10	743.00	715.94	631.11	501.66	329.61	135.66
B0.0	2.33	152.77	353.47	526.05	656.80	736.46	762.63	732.41	647.96	513.58	339.30	139.64
B15.0	2.33	143.78	335.73	499.36	626.09	700.02	727.29	696.26	617.76	487.50	322.13	131.28
B30.0	2.33	122.36	290.29	433.84	547.62	610.77	636.79	607.47	540.23	423.36	278.08	111.20
B45.0	2.33	91.44	220.86	334.03	426.43	474.77	497.23	472.07	420.16	325.26	210.63	82.43
B60.0	2.33	56.30	137.09	209.03	272.70	303.16	319.92	301.15	267.83	202.18	128.88	49.92
B75.0	2.33	23.31	57.18	84.08	113.12	122.48	131.98	121.06	109.93	79.79	52.41	20.82
B90.0	2.33	2.00	2.03	2.05	2.14	2.10	2.13	2.15	2.19	2.12	2.13	2.12
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											