IES Flood Report
Photometric Filename: HCP-3328244.IES

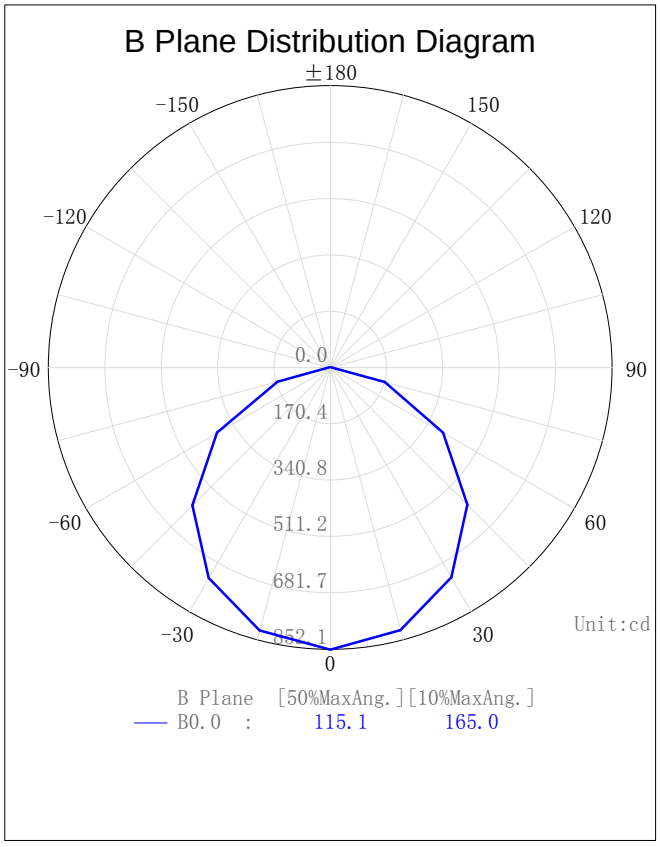
Flood Luminaire Photometric Data

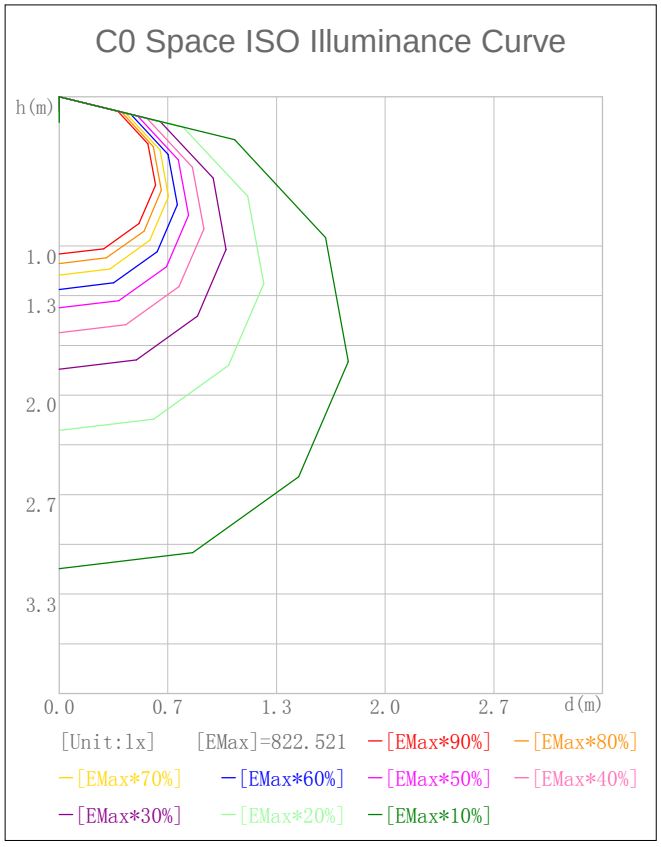
Description Information

Luminary Name: HCP-3328244		Lum. Catelog:	Test ID:
Lamp Name: 2110 4000K		Lamp Catelog:	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.(℃):	Humidity(%):

Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter		
Rated Flux(lm): 2675.000	Luminary Flux(lm):	2491.928	Beam Lumens(lm): 1819.33
Rated Power(W):	Luminary Efficiency:	93.16%	Beam Efficiency(%): 73.01
Rated Voltage(V):	Luminary EER(lm/W):	99.837	Field Lumens(lm): 2436.88
Tested Power(W): 24.960	Max.Candela(cd):	852.064	Field Efficiency(%): 97.79
Lamps' Inside: 1	Max Cand@Ang.(°):	B=0.0 β=0.0	ErP Φuse(120°): 1942.742lm
Tested Electrics(V,A,pf):24.0,1.040,0.000	Beam Angle(50%)(V,H):	114.9(°),115.1(°)	IRF(%): 107.584
Lamp Size(W*L*H):0.010m*0.100m*0.010m	Field Angle(10%)(V,H):	166.5(°),165.0(°)	



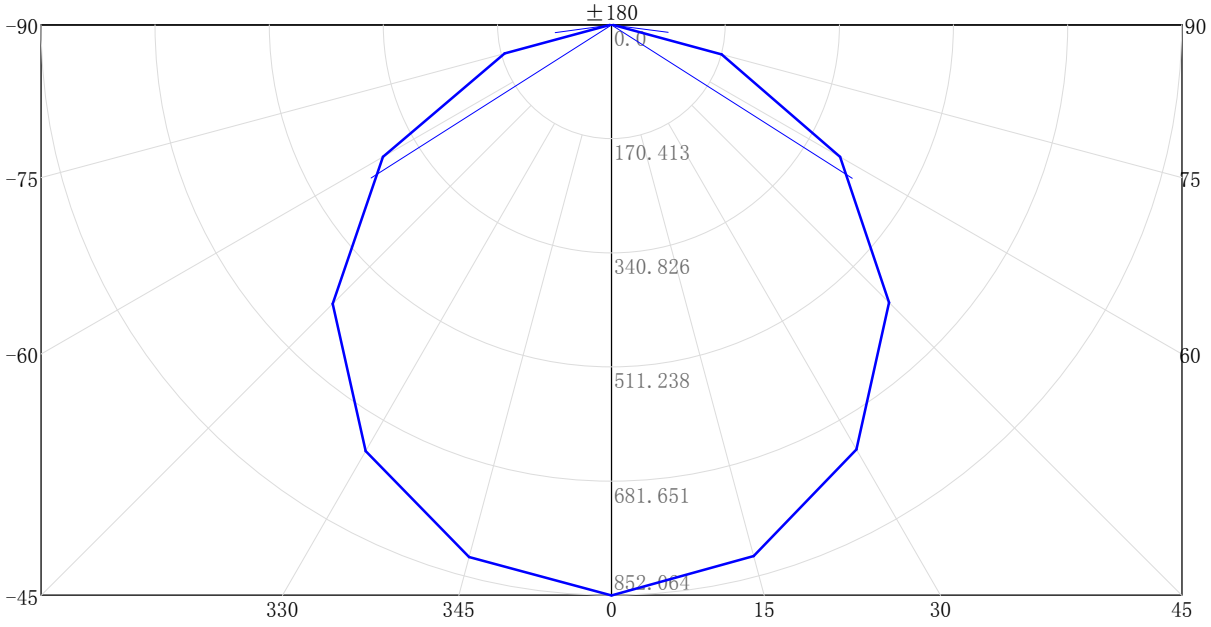


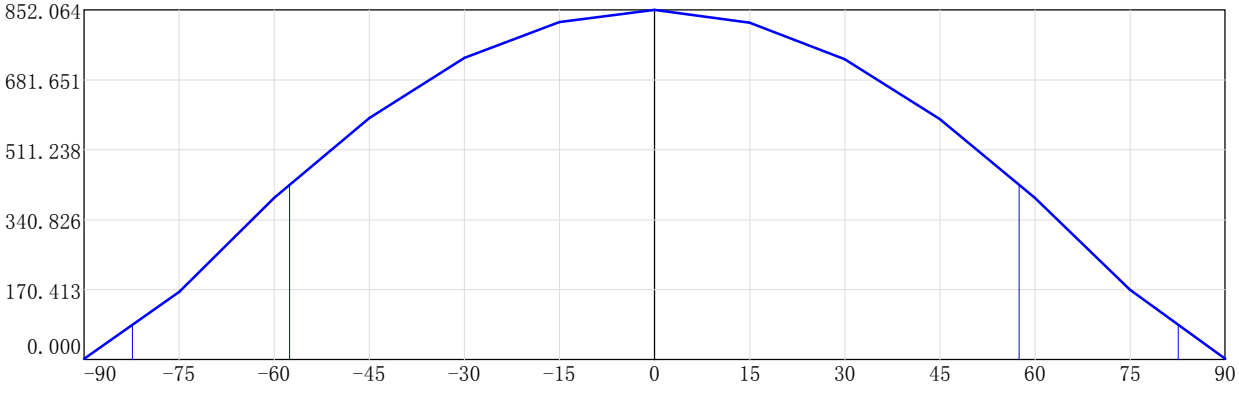
IES Flood Report
Photometric Filename: HCP-3328244.IES

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-3328244	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

B Plane Distribution Diagram





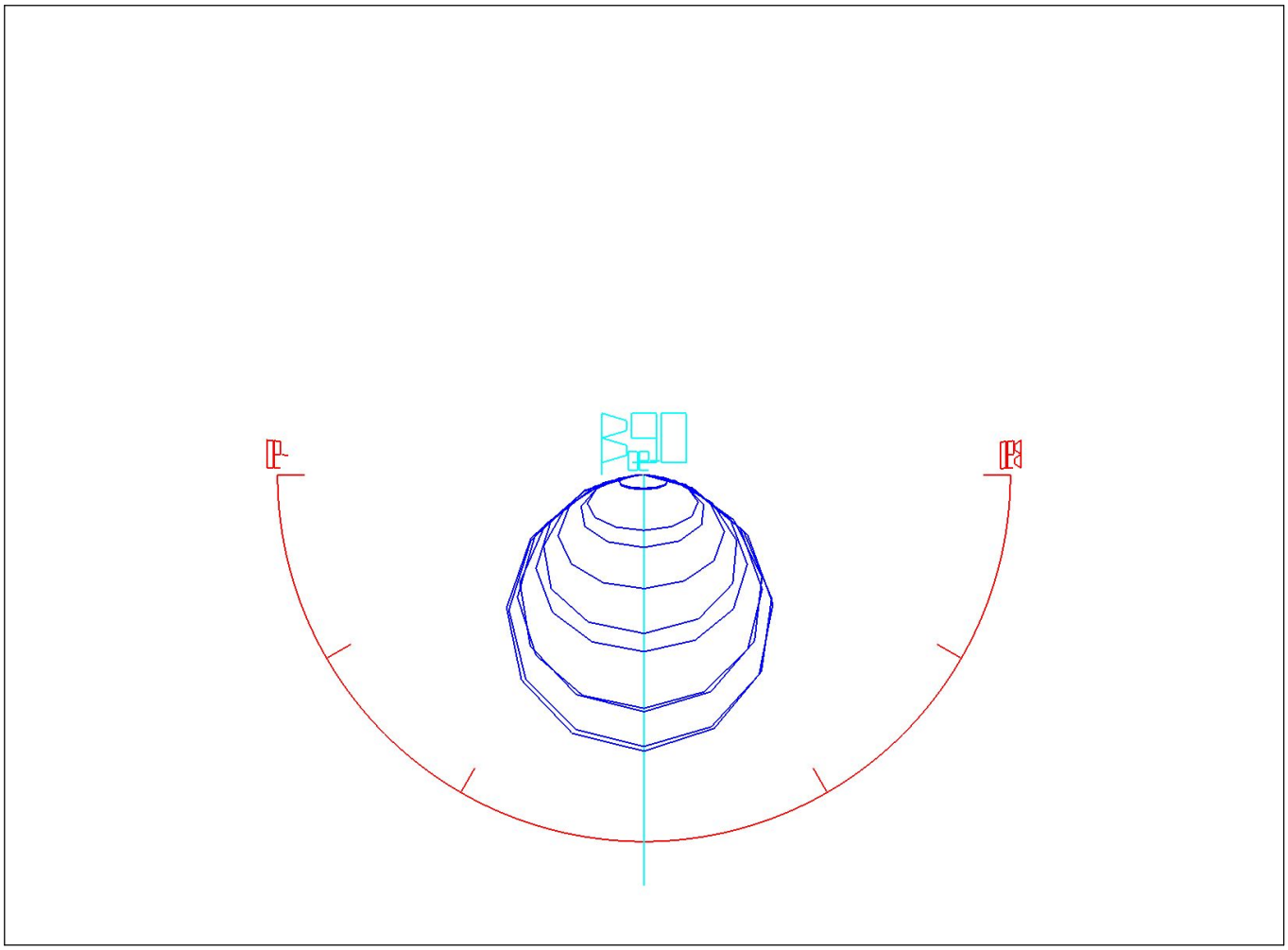
	B Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
	B0.0 :	115.1	165.0	

IES Flood Report
Photometric Filename: HCP-3328244.IES

3D Light Intensity Distribution Modal

Lum.Name: HCP-3328244	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	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

IES Flood Report
Photometric Filename: HCP-3328244.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	0.09	0.77	2.33	4.35	6.22	7.26	7.36	6.47	4.66	2.63	0.98	0.12	
B-75.0	0.22	2.19	6.64	12.22	17.29	20.22	20.32	17.54	12.55	7.00	2.45	0.27	
B-60.0	0.39	3.93	11.56	20.87	29.09	33.80	33.84	29.22	21.07	11.81	4.14	0.43	
B-45.0	0.55	5.49	15.78	28.06	38.74	44.83	44.83	38.75	28.11	15.91	5.65	0.59	
B-30.0	0.67	6.63	18.72	32.99	45.33	52.35	52.32	45.25	32.92	18.73	6.73	0.70	
B-15.0	0.73	7.19	20.14	35.36	48.47	55.95	55.90	48.35	35.23	20.09	7.26	0.76	
B0.0	0.73	7.14	19.99	35.11	48.12	55.55	55.50	48.00	34.98	19.94	7.21	0.75	
B15.0	0.65	6.49	18.27	32.25	44.28	51.16	51.13	44.20	32.17	18.28	6.59	0.68	
B30.0	0.53	5.28	15.06	26.86	37.04	42.90	42.90	37.05	26.90	15.17	5.42	0.56	
B45.0	0.36	3.66	10.64	19.30	26.86	31.26	31.31	27.01	19.52	10.88	3.86	0.40	
B60.0	0.19	1.94	5.71	10.57	14.90	17.47	17.57	15.17	10.92	6.05	2.17	0.23	
B75.0	0.06	0.57	1.66	3.11	4.40	5.20	5.26	4.56	3.30	1.85	0.70	0.09	
B90.0													
Total	5.18	51.26	146.52	261.05	360.74	417.94	418.25	361.56	262.32	148.34	53.18	5.58	

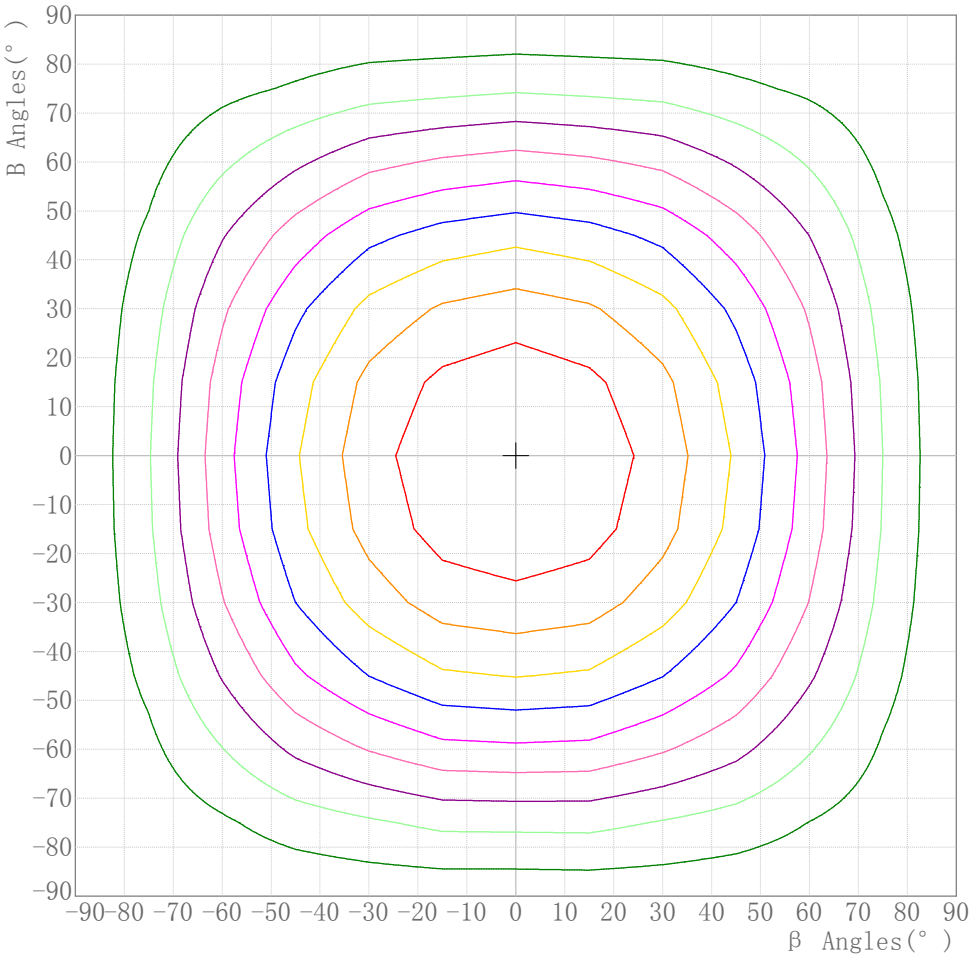
	β 90.0	Total
B-90.0		43.22
B-75.0		118.90
B-60.0		200.16
B-45.0		267.29
B-30.0		313.35
B-15.0		335.43
B0.0		333.02
B15.0		306.15
B30.0		255.67
B45.0		185.07
B60.0		102.89
B75.0		30.76
B90.0		
Total		2491.93

IES Flood Report
Photometric Filename: HCP-3328244.IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-3328244	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

ISO Lighting Intensity Curve



Curves:
[Unit: cd]
[IMax] =852.064
[IMax*90%]=766.858
[IMax*80%]=681.651
[IMax*70%]=596.445
[IMax*60%]=511.238
[IMax*50%]=426.032
[IMax*40%]=340.826
[IMax*30%]=255.619
[IMax*20%]=170.413
[IMax*10%]=85.206

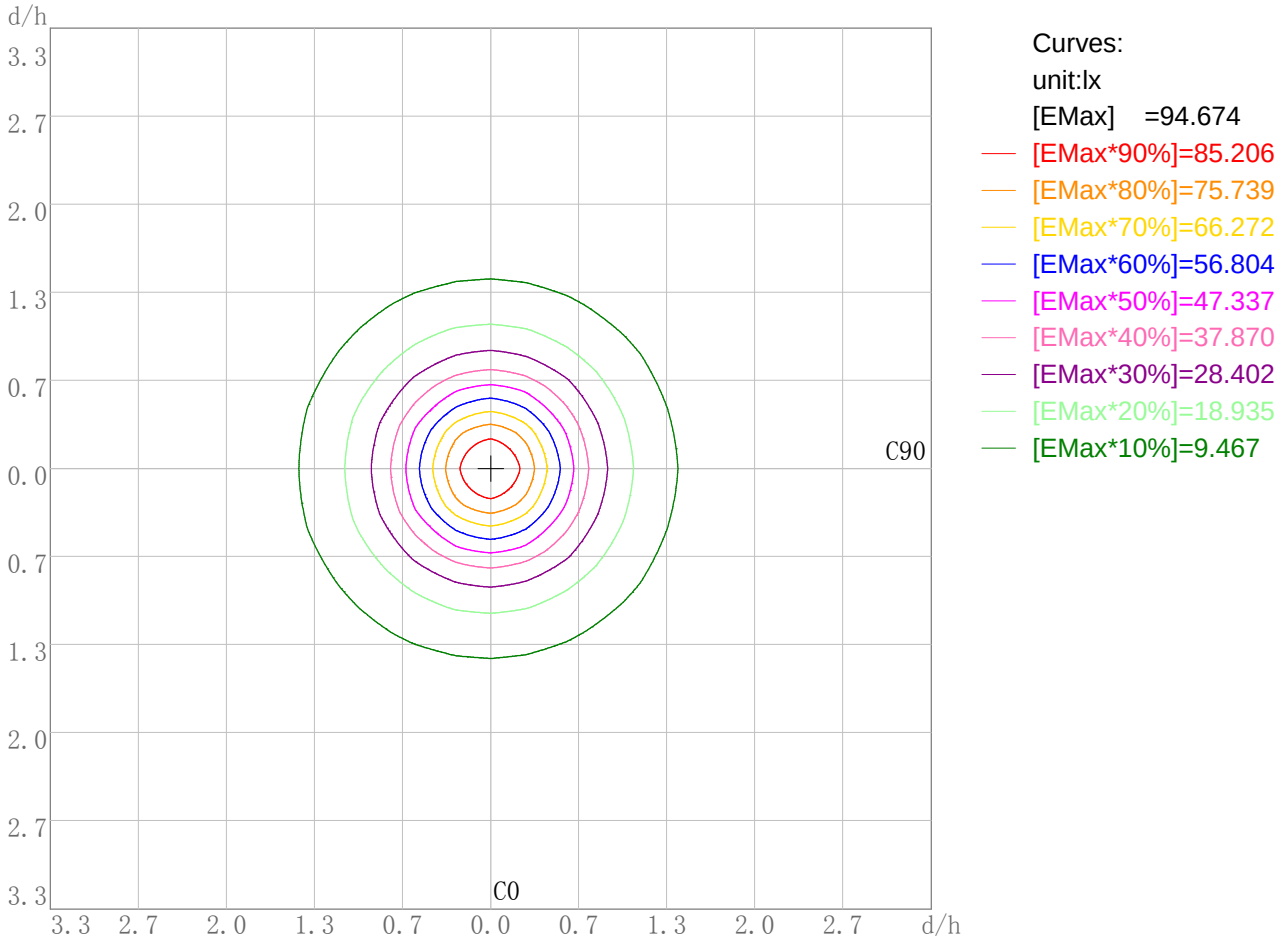
Maximum Light Intensity(cd): 852.06
Maximum Cand.@Angle: H=0.0°,V=0.0°

IES Flood Report
Photometric Filename: HCP-3328244.IES

Plane ISO-Illuminance Diagram

Lum.Name: HCP-3328244	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

Plane ISO-Illuminance Curve



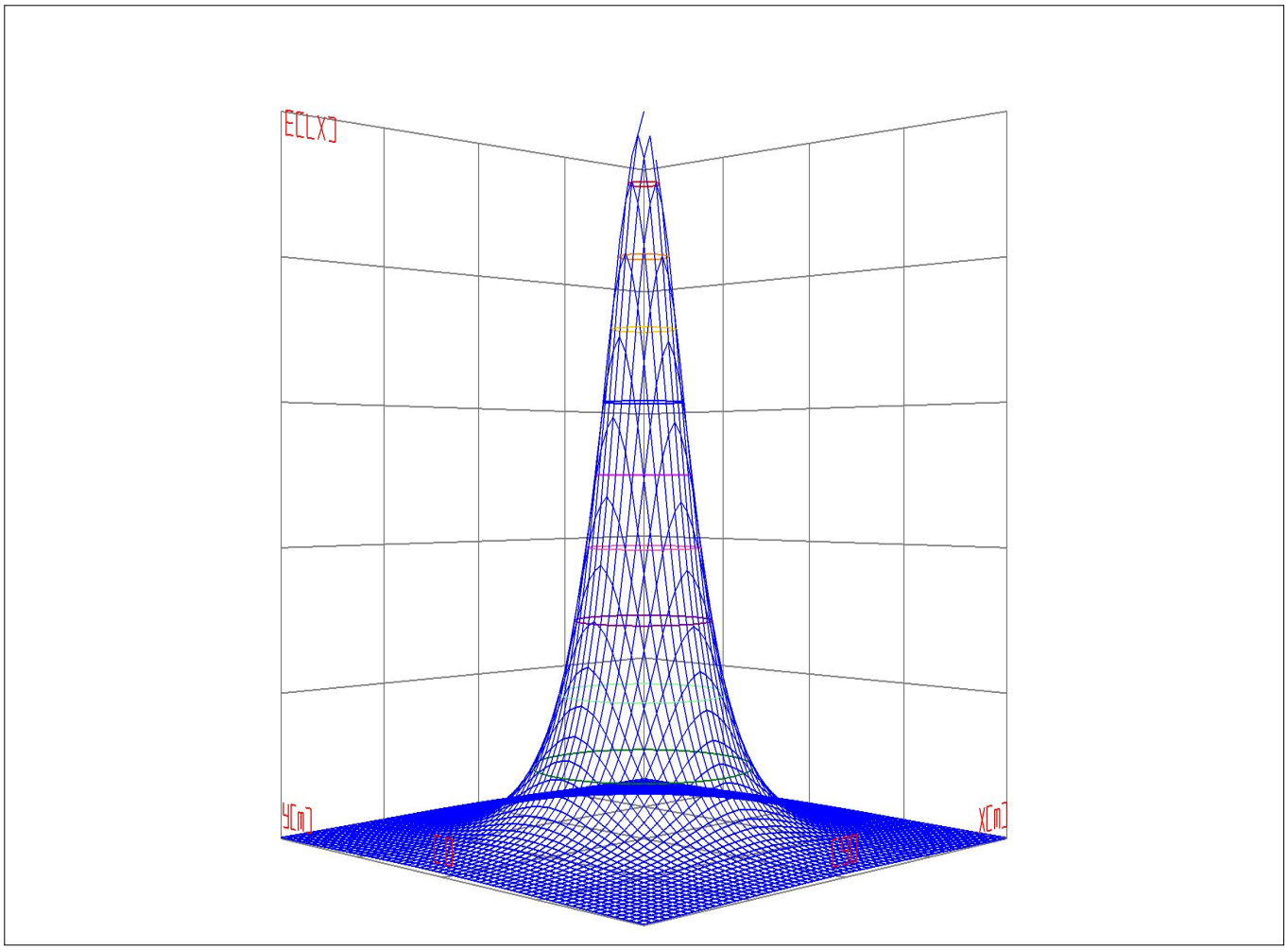
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 94.67
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

IES Flood Report
Photometric Filename: HCP-3328244.IES

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-3328244	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

3D Plane Illuminance Modal



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

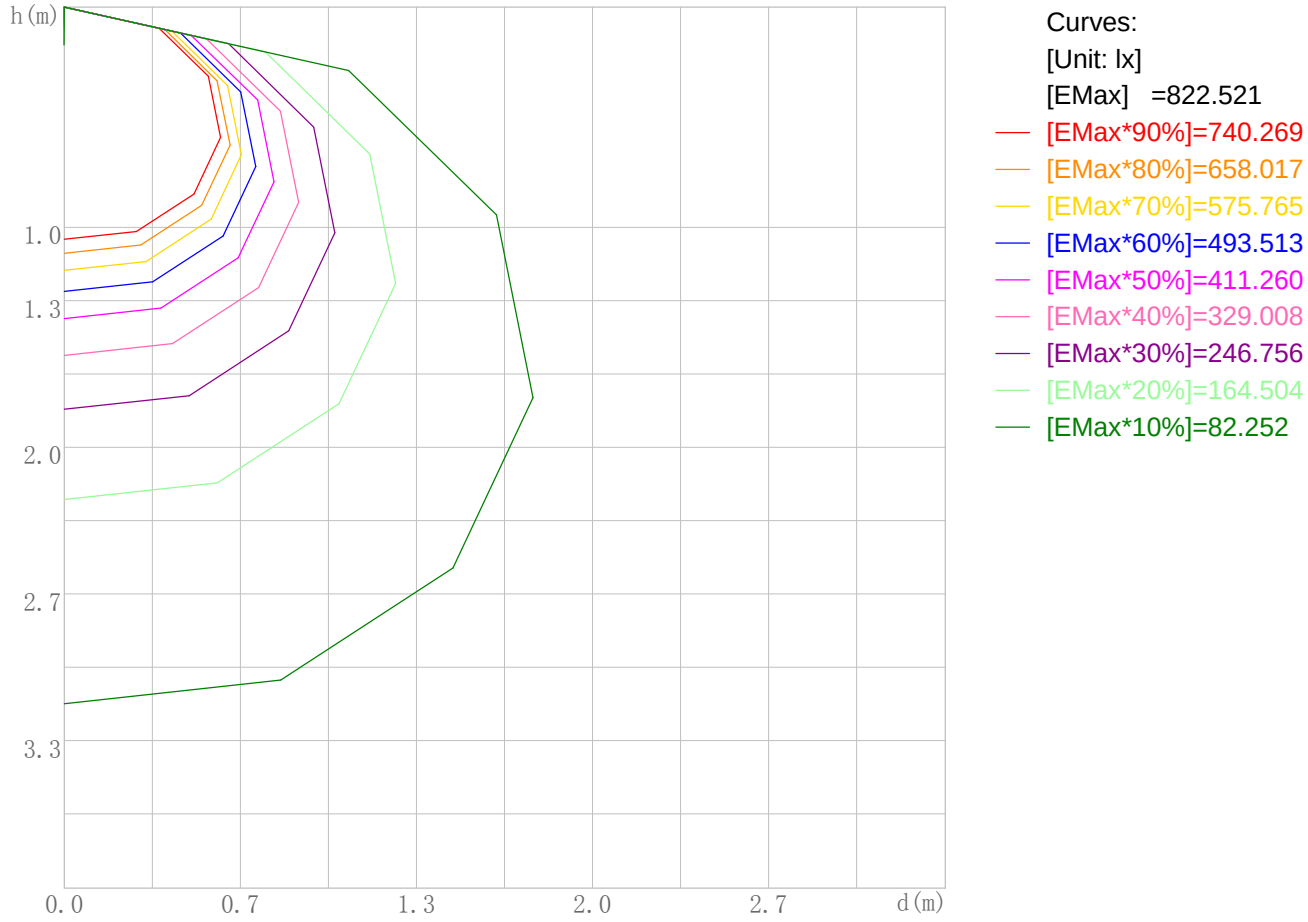
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

IES Flood Report
Photometric Filename: HCP-3328244.IES

Space ISO Illuminance Diagram

Lum.Name: HCP-3328244	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

Space ISO Illuminance Curve



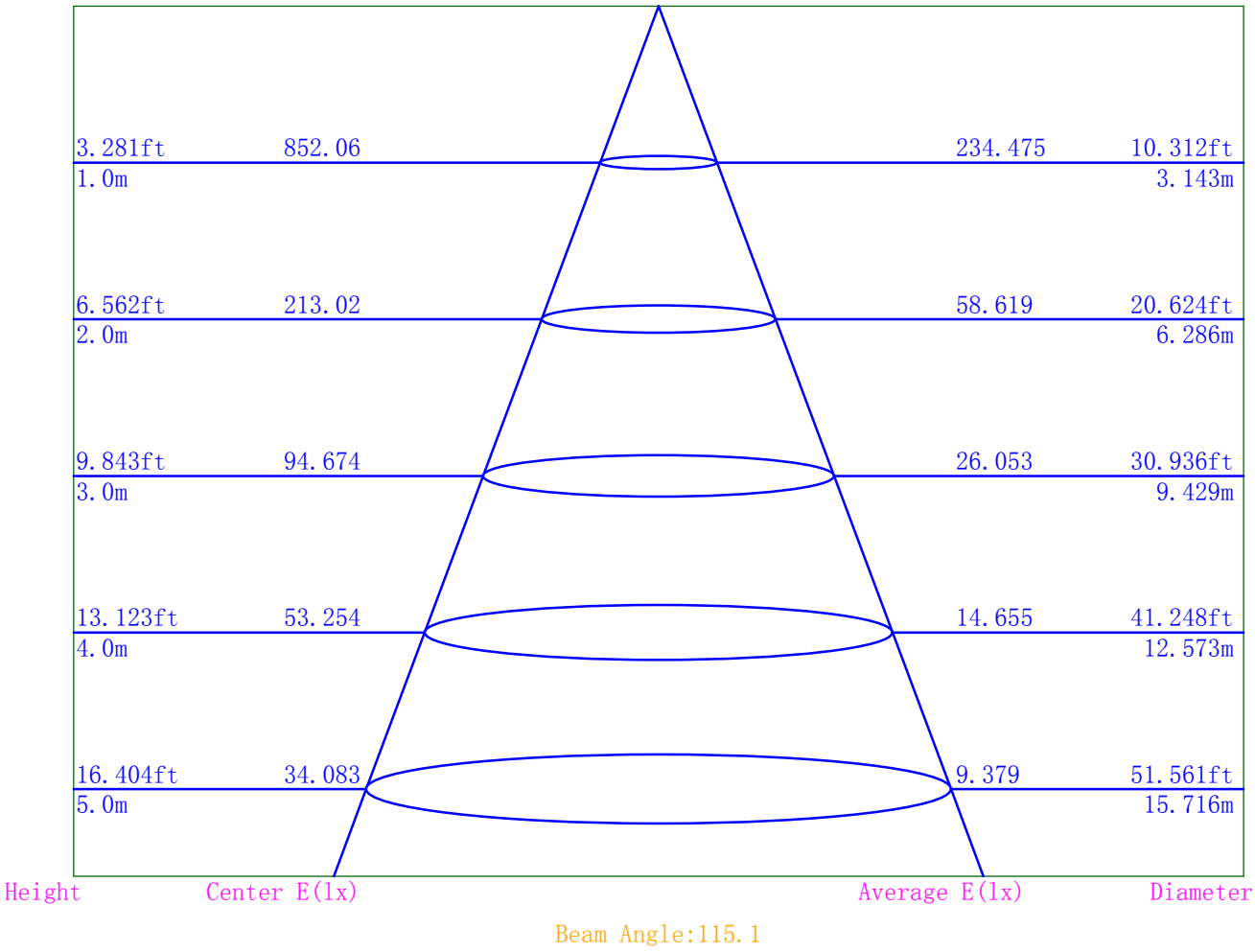
Space Plane Maximum Illuminance and @Angle:822.52lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:852.064cd,0eg

IES Flood Report
Photometric Filename: HCP-3328244.IES

Illuminance-Distance Diagram

Lum.Name: HCP-3328244	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

Illuminance-Distance Curve



Beam Angle:115.1

IES Flood Report
Photometric Filename: HCP-3328244.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	2.39	5.51	10.48	15.92	22.23	23.27	22.64	25.54	25.76	20.45	16.27	10.55
B-75.0	2.39	27.83	73.18	124.44	158.28	190.29	192.31	193.90	164.43	132.78	83.57	39.17
B-60.0	2.39	65.91	167.74	273.17	345.26	401.34	409.86	403.43	349.41	279.53	176.68	75.88
B-45.0	2.39	105.42	261.34	409.40	511.87	584.42	599.50	585.11	513.26	412.12	267.41	113.77
B-30.0	2.39	138.28	335.29	511.56	637.36	720.52	741.74	720.07	636.55	511.48	338.23	145.15
B-15.0	2.39	159.08	380.61	572.39	712.52	801.01	827.11	799.81	710.26	570.29	381.23	164.77
B0.0	2.39	165.14	394.28	588.92	734.78	822.52	852.06	821.08	731.94	586.23	394.14	170.40
B15.0	2.39	156.01	376.29	562.00	704.61	786.76	817.89	785.46	702.20	559.96	376.83	161.72
B30.0	2.39	132.72	326.94	491.38	621.12	692.61	722.94	692.07	620.22	491.22	329.37	139.48
B45.0	2.39	98.13	249.40	380.66	488.22	544.55	572.18	545.24	489.68	383.55	254.67	106.14
B60.0	2.39	58.63	153.65	239.39	315.76	353.18	375.54	355.59	320.55	245.92	161.90	67.74
B75.0	2.39	22.31	61.51	94.43	130.55	144.23	158.43	147.76	136.80	102.63	70.76	32.18
B90.0	2.39	2.05	2.01	2.05	2.07	2.06	2.13	2.09	2.10	2.10	2.08	2.03

V/H	β 90.0
B-90.0	2.44
B-75.0	2.44
B-60.0	2.44
B-45.0	2.44
B-30.0	2.44
B-15.0	2.44
B0.0	2.44
B15.0	2.44
B30.0	2.44
B45.0	2.44
B60.0	2.44
B75.0	2.44
B90.0	2.44