IES Flood Report
Photometric Filename: HCP-332928.IES

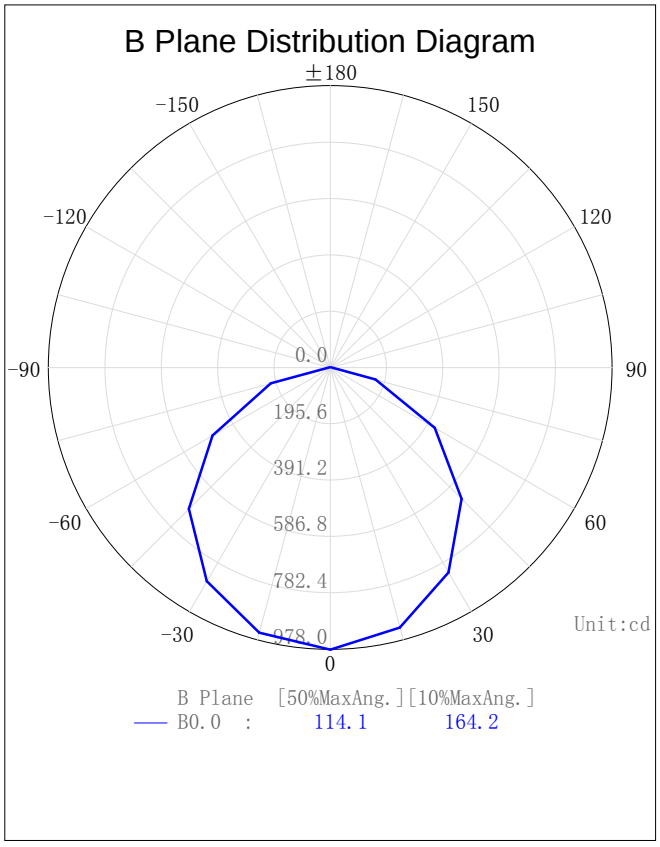
Flood Luminaire Photometric Data

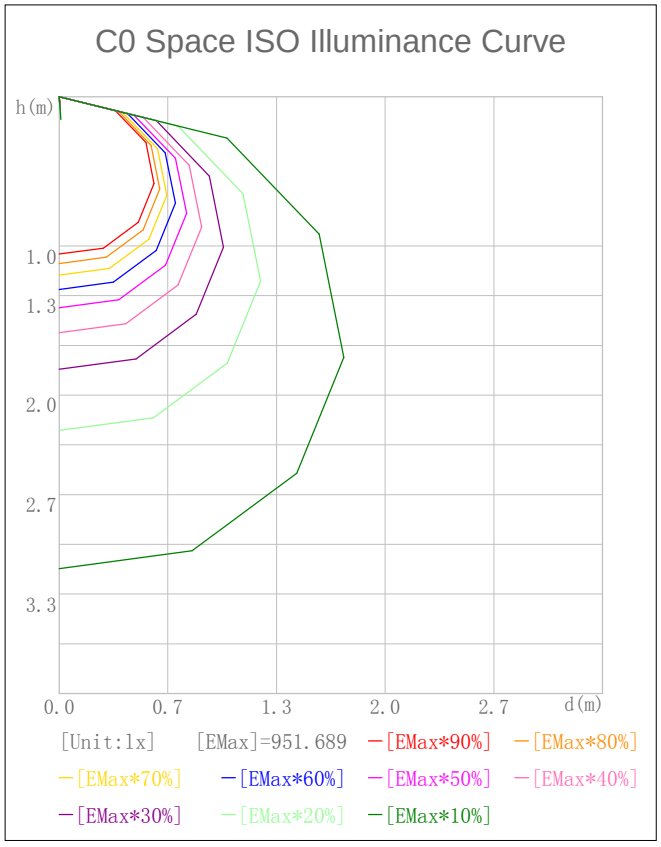
Description Information

Luminary Name: HCP-3329283		Lum. Catelog:	Test ID:
Lamp Name: 2110 3000K		Lamp Catelog:	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.(℃):	Humidity(%):

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter			
Rated Flux(lm):	3193.800	Luminary Flux(lm):	2837.369	Beam Lumens(lm):	2063.88
Rated Power(W):		Luminary Efficiency:	88.84%	Beam Efficiency(%):	72.74
Rated Voltage(V):		Luminary EER(lm/W):	95.342	Field Lumens(lm):	2774.71
Tested Power(W):	29.760	Max.Candela(cd):	977.979	Field Efficiency(%):	97.79
Lamps' Inside:	1	Max Cand@Ang.(°):	B=0.0 β=0.0	ErP Φuse(120°):	2218.187lm
Tested Electrics(V,A,pf):24.0,1.24,0.000		Beam Angle(50%)(V,H):	114.1(°),114.1(°)	IRF(%):	108.210
Lamp Size(W*L*H):0.012m*0.100m*0.010m		Field Angle(10%)(V,H):	166.0(°),164.2(°)		



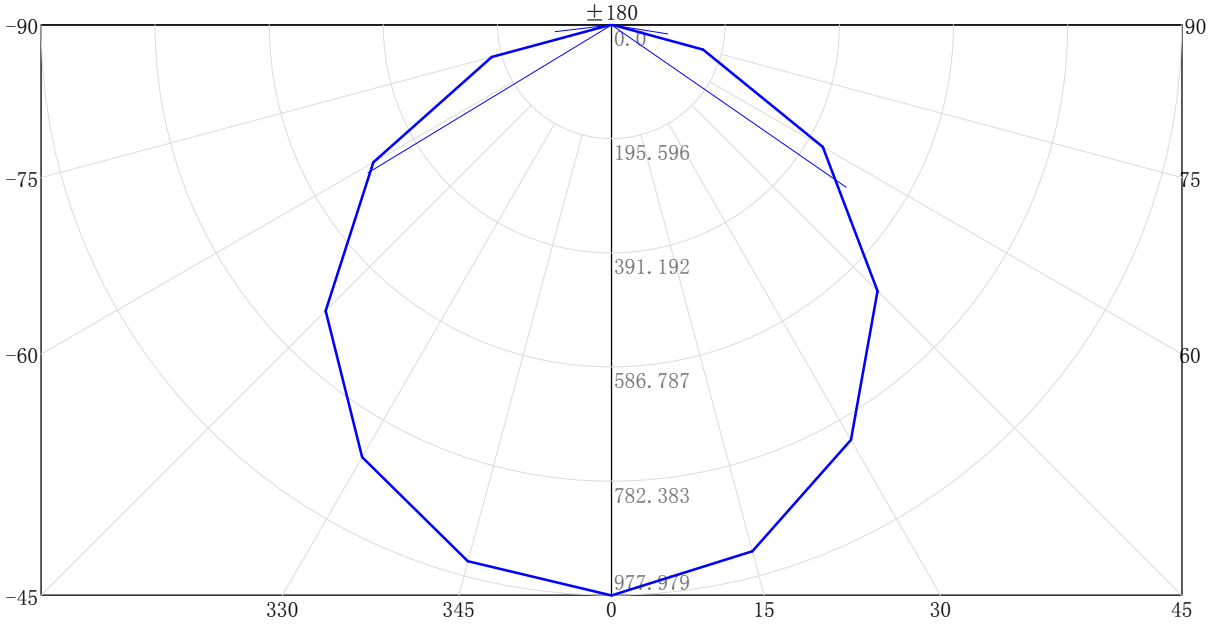


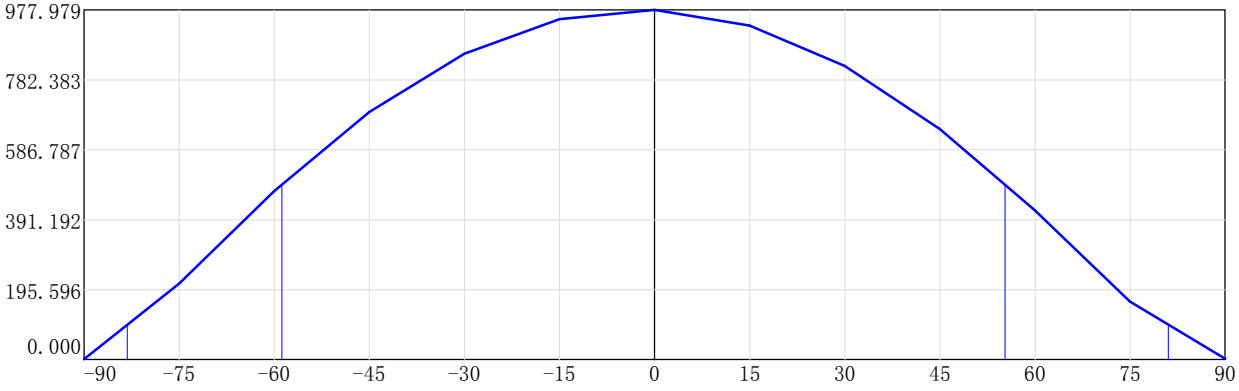
IES Flood Report
Photometric Filename: HCP-3329283.IES

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-3329283	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/25

B Plane Distribution Diagram





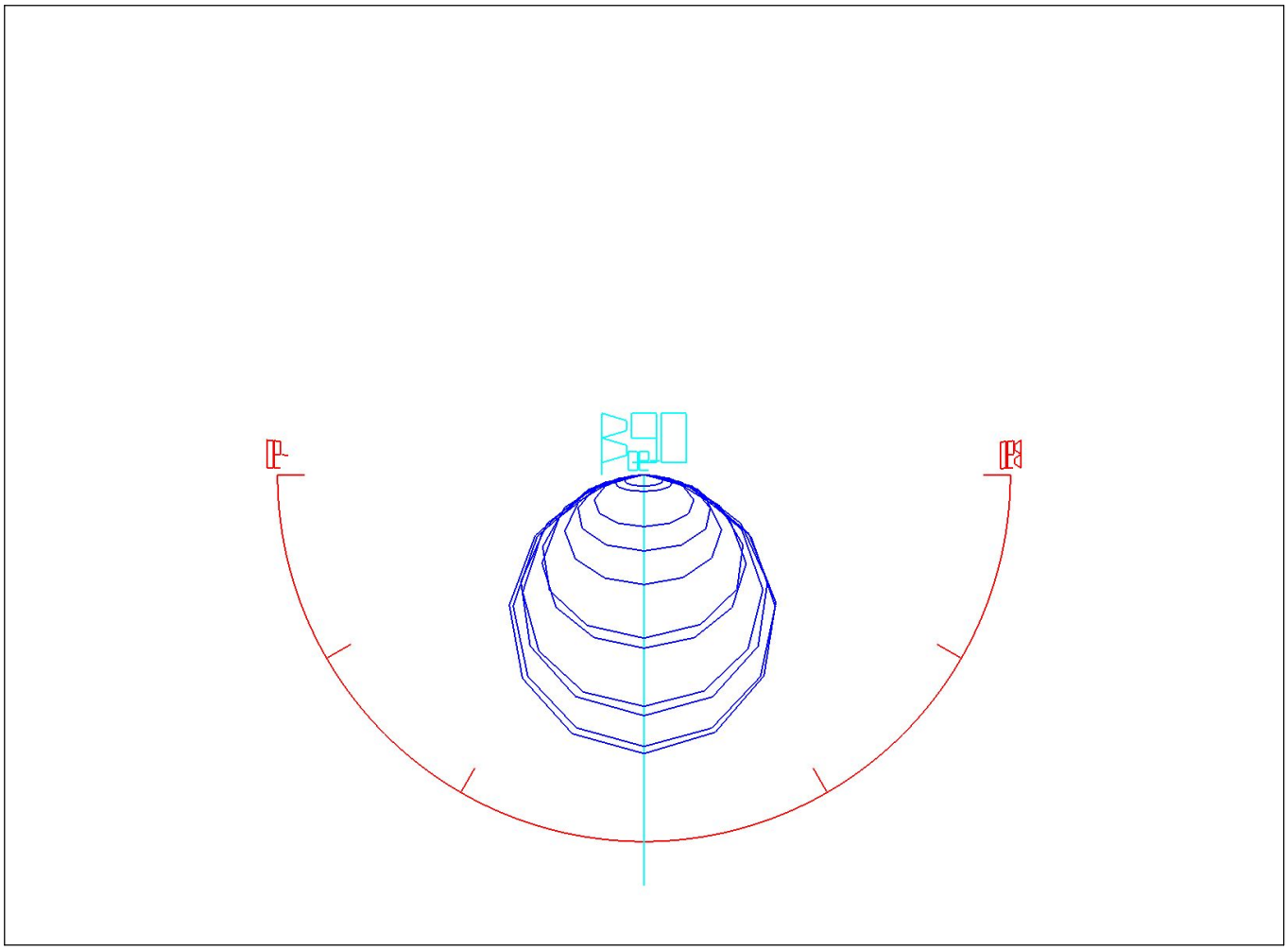
B Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
B0.0 :	114.1	164.2	

IES Flood Report
Photometric Filename: HCP-3329283.IES

3D Light Intensity Distribution Modal

Lum.Name: HCP-3329283	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	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
Photometric Filename: HCP-3329283.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	0.12	0.97	2.64	4.59	6.33	7.23	7.15	6.13	4.25	2.26	0.75	0.08	
B-75.0	0.31	2.84	7.95	13.99	19.22	21.94	21.55	18.16	12.58	6.67	2.12	0.21	
B-60.0	0.52	4.90	13.61	23.90	32.74	37.49	37.01	31.42	22.12	11.94	3.89	0.37	
B-45.0	0.72	6.75	18.54	32.33	44.11	50.52	49.99	42.64	30.34	16.65	5.56	0.53	
B-30.0	0.86	8.09	22.04	38.25	52.06	59.64	59.07	50.49	36.12	20.00	6.79	0.65	
B-15.0	0.94	8.78	23.80	41.24	56.07	64.25	63.65	54.44	39.03	21.70	7.43	0.72	
B0.0	0.94	8.78	23.77	41.20	56.01	64.19	63.59	54.38	39.00	21.67	7.43	0.72	
B15.0	0.86	8.08	21.95	38.13	51.86	59.45	58.87	50.29	36.01	19.91	6.79	0.65	
B30.0	0.71	6.74	18.39	32.14	43.79	50.19	49.66	42.32	30.16	16.50	5.55	0.52	
B45.0	0.52	4.89	13.42	23.64	32.31	37.04	36.56	30.99	21.88	11.75	3.88	0.36	
B60.0	0.30	2.83	7.74	13.70	18.72	21.40	21.02	17.67	12.31	6.46	2.10	0.20	
B75.0	0.11	0.95	2.57	4.55	6.13	6.84	6.63	5.53	3.81	1.95	0.64	0.07	
B90.0													
Total	6.90	64.60	176.42	307.66	419.33	480.18	474.74	404.47	287.60	157.45	52.93	5.08	

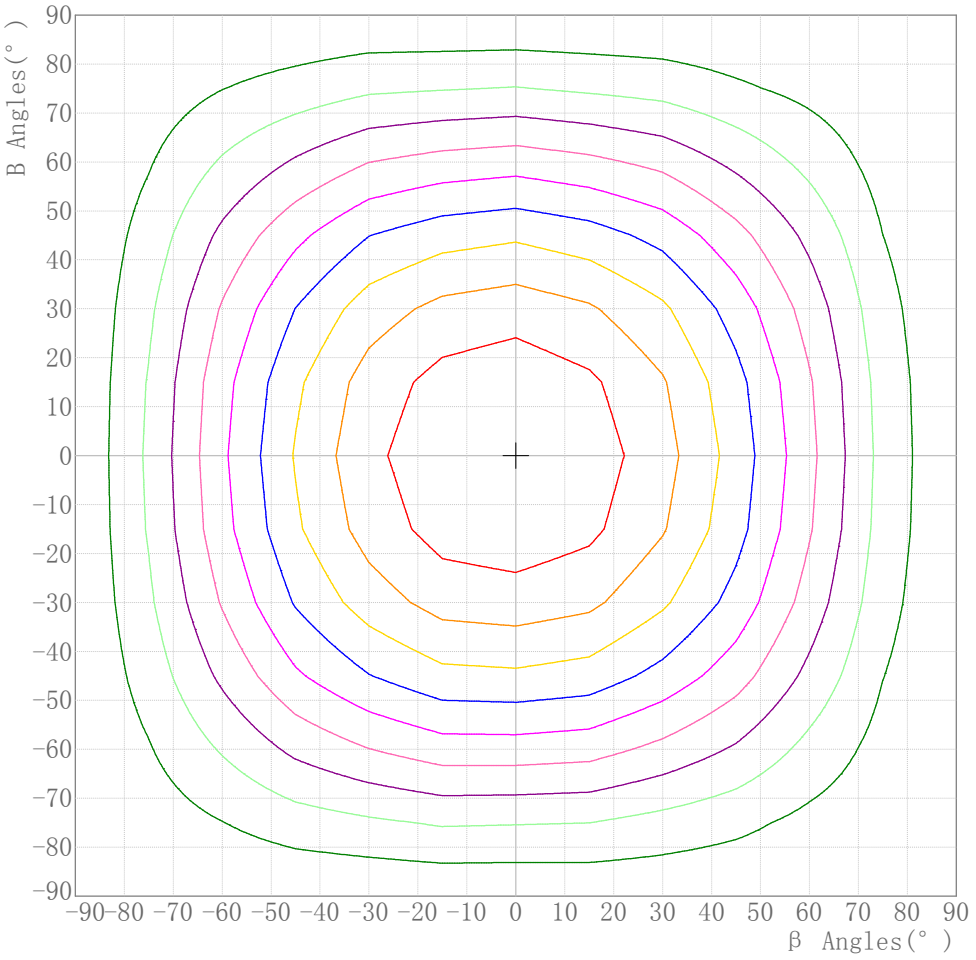
	β 90.0	Total
B-90.0		42.49
B-75.0		127.55
B-60.0		219.91
B-45.0		298.68
B-30.0		354.08
B-15.0		382.05
B0.0		381.65
B15.0		352.84
B30.0		296.68
B45.0		217.23
B60.0		124.43
B75.0		39.78
B90.0		
Total		2837.37

IES Flood Report
Photometric Filename: HCP-3329283.IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-3329283	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/25

ISO Lighting Intensity Curve



Curves:
[Unit: cd]
[IMax] =977.979
[IMax*90%]=880.181
[IMax*80%]=782.383
[IMax*70%]=684.585
[IMax*60%]=586.787
[IMax*50%]=488.990
[IMax*40%]=391.192
[IMax*30%]=293.394
[IMax*20%]=195.596
[IMax*10%]=97.798

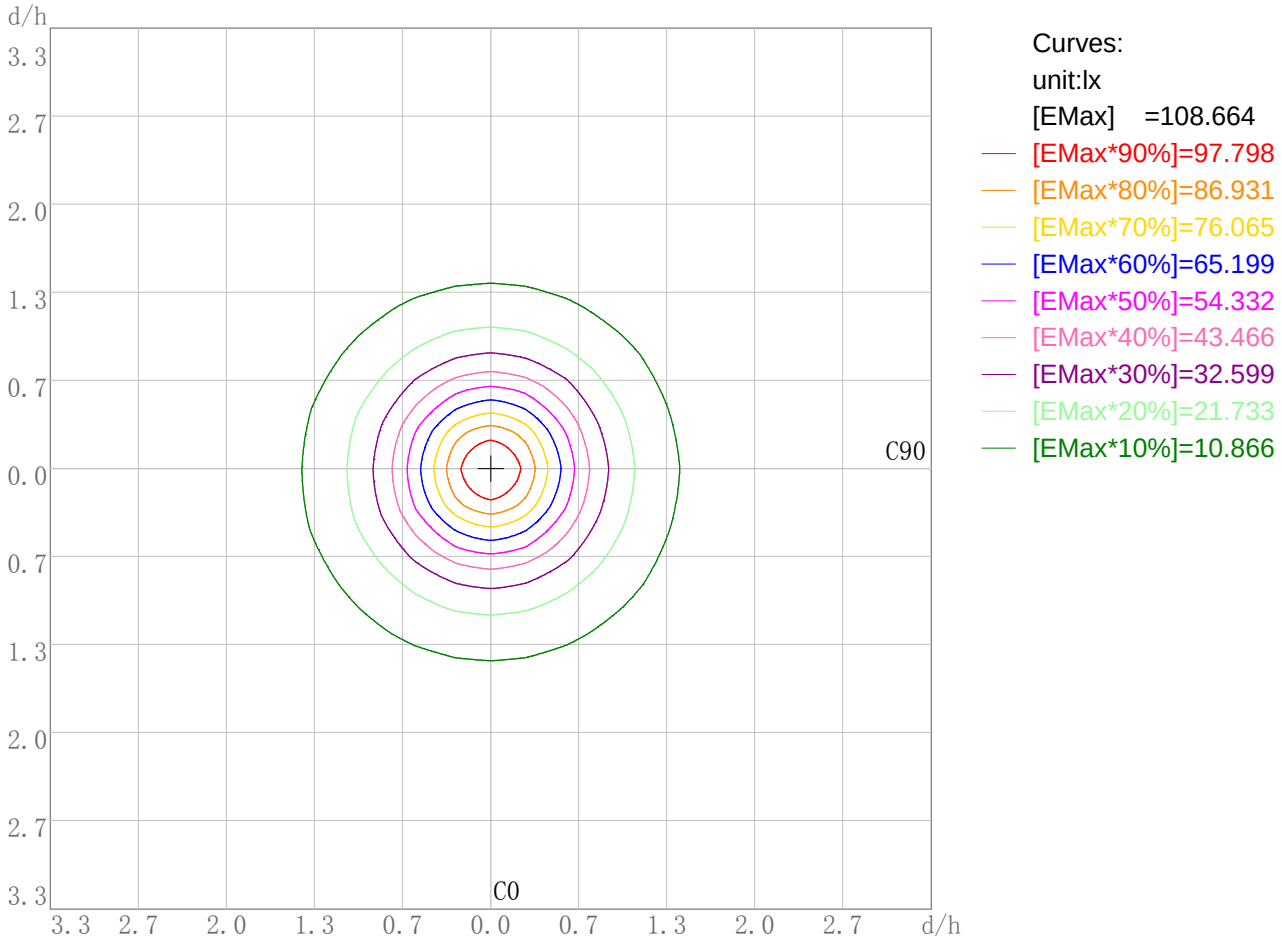
Maximum Light Intensity(cd): 977.98
Maximum Cand.@Angle: H=0.0°,V=0.0°

IES Flood Report
Photometric Filename: HCP-3329283.IES

Plane ISO-Illuminance Diagram

Lum.Name: HCP-3329283	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/25

Plane ISO-Illuminance Curve



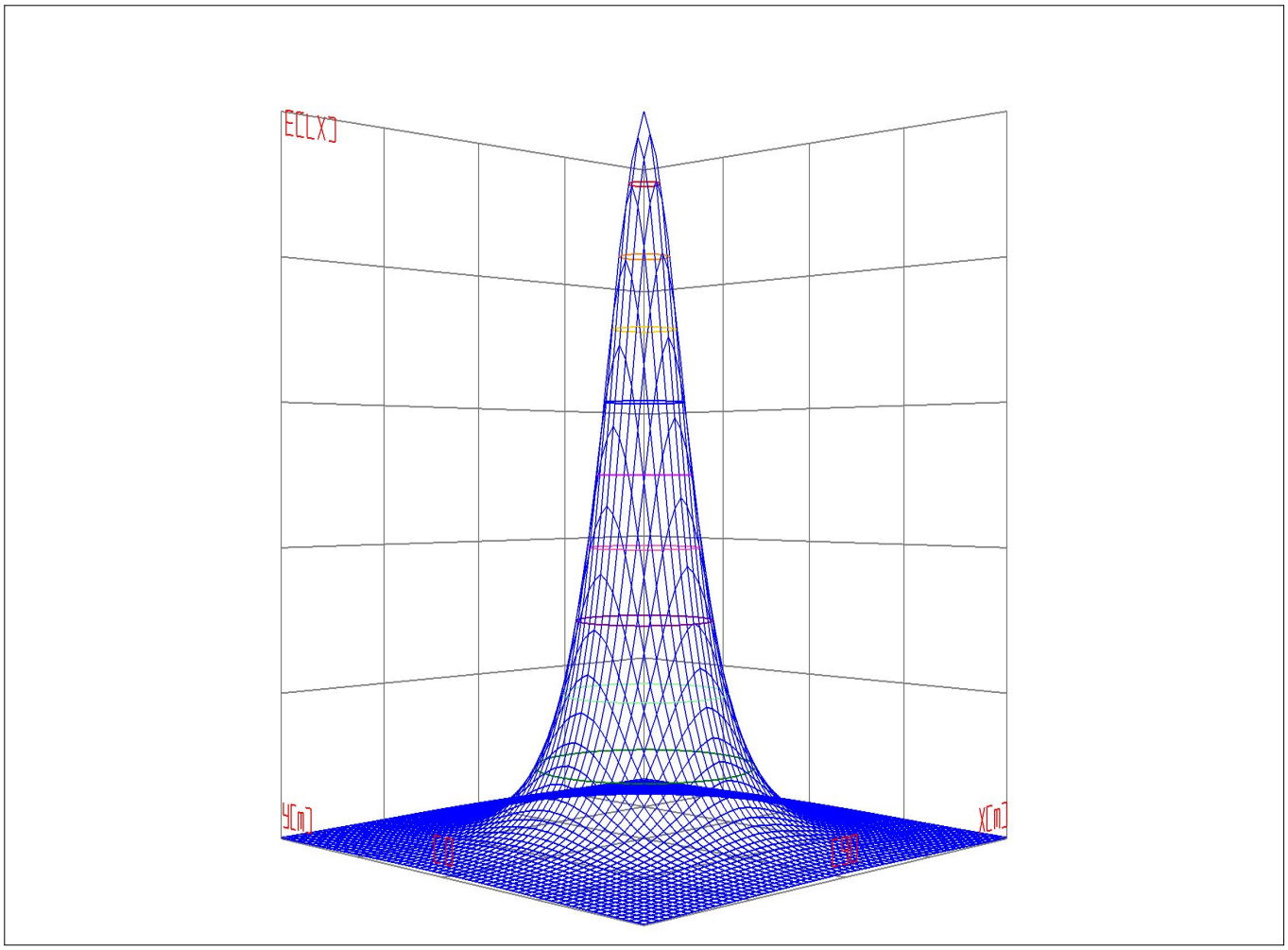
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 108.66
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

IES Flood Report
Photometric Filename: HCP-3329283.IES

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-3329283	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/25

3D Plane Illuminance Modal



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

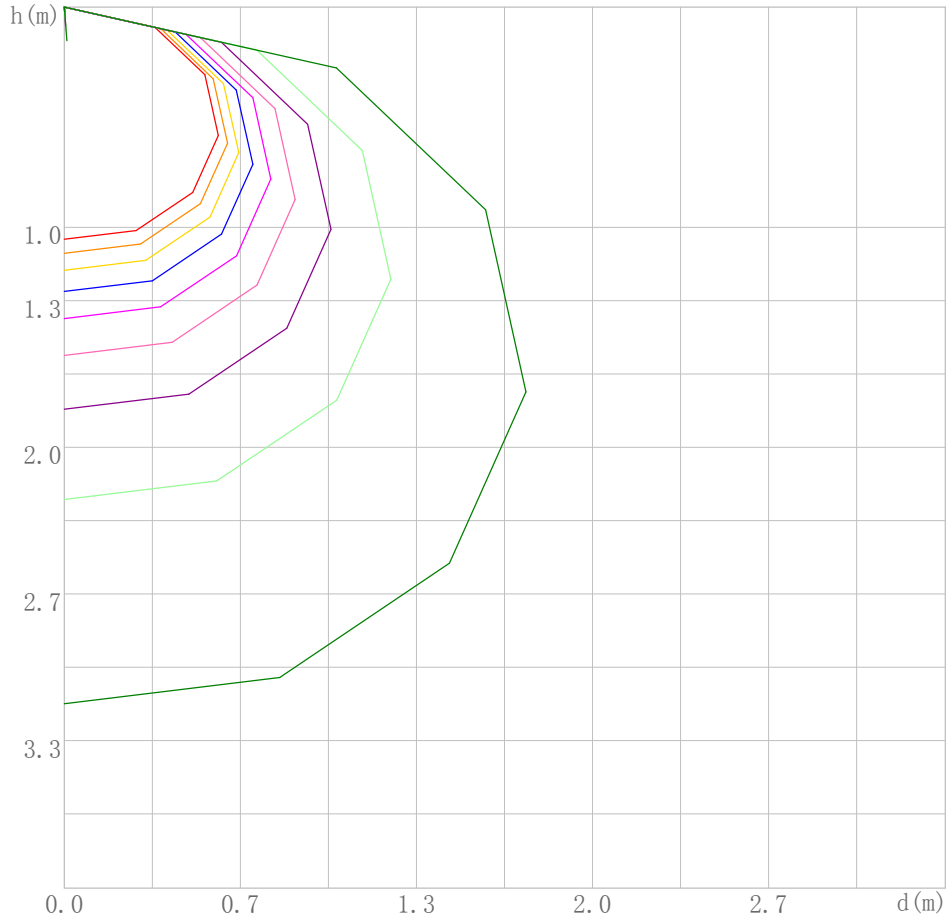
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

IES Flood Report
Photometric Filename: HCP-3329283.IES

Space ISO Illuminance Diagram

Lum.Name: HCP-3329283	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/25

Space ISO Illuminance Curve



Curves:
[Unit: lx]
[EMax] =951.689
[EMax*90%]=856.520
[EMax*80%]=761.351
[EMax*70%]=666.182
[EMax*60%]=571.013
[EMax*50%]=475.845
[EMax*40%]=380.676
[EMax*30%]=285.507
[EMax*20%]=190.338
[EMax*10%]=95.169

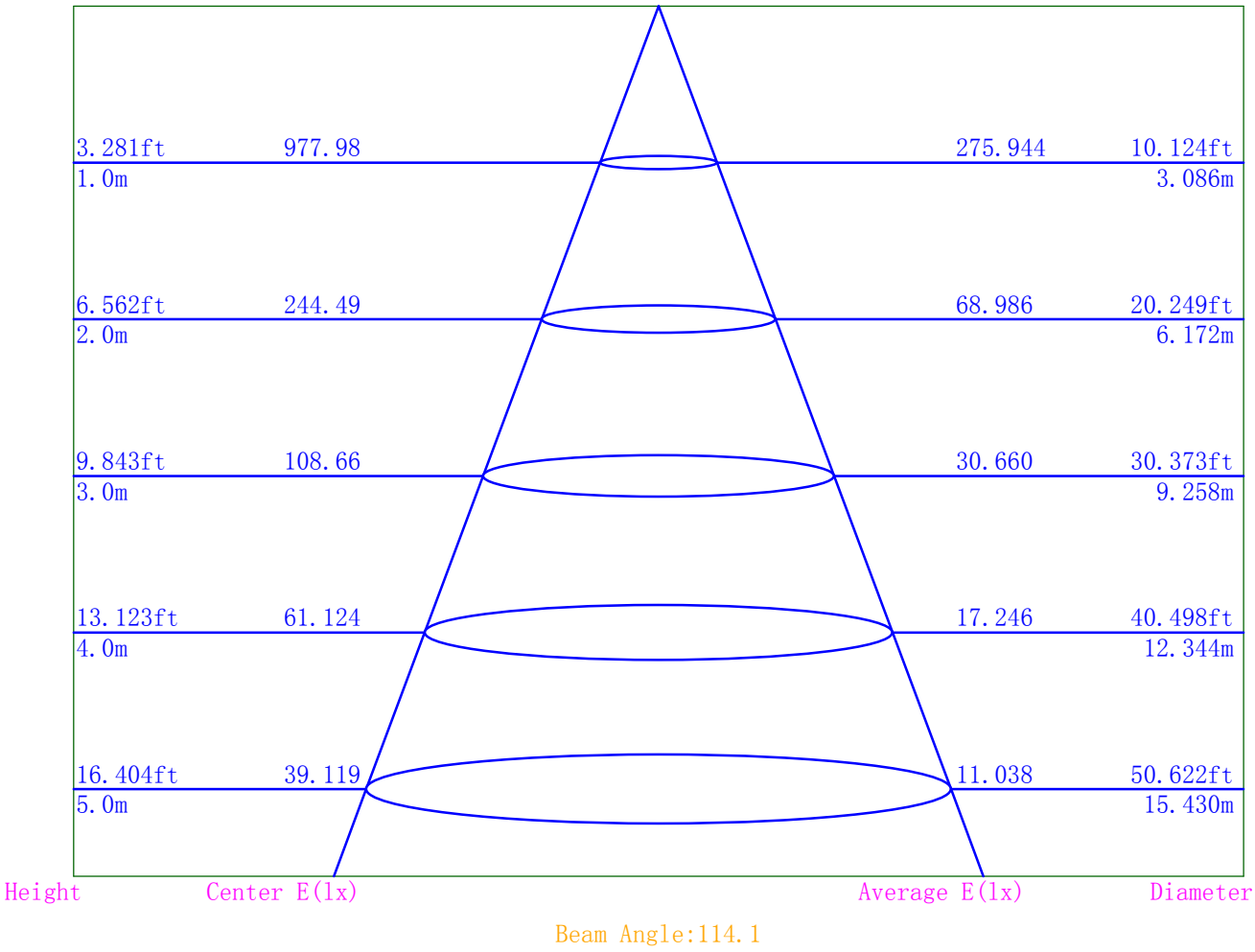
Space Plane Maximum Illuminance and @Angle:951.69lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:977.979cd,0eg

IES Flood Report
Photometric Filename: HCP-3329283.IES

Illuminance-Distance Diagram

Lum.Name: HCP-3329283	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/25

Illuminance-Distance Curve



Beam Angle:114.1

IES Flood Report
Photometric Filename: HCP-3329283.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	2.07	4.19	4.93	5.67	5.86	9.98	10.22	14.89	16.63	13.06	10.58	6.85
B-75.0	2.07	43.34	95.62	147.95	179.02	205.84	200.98	195.95	160.59	123.05	70.47	26.66
B-60.0	2.07	90.84	204.77	316.20	389.27	443.66	444.86	430.35	363.58	280.91	166.40	61.32
B-45.0	2.07	139.60	313.52	474.38	583.26	657.91	666.81	642.81	554.00	433.33	267.13	99.91
B-30.0	2.07	179.16	399.36	595.52	732.17	820.75	837.13	804.25	700.35	550.87	349.14	133.60
B-15.0	2.07	204.32	454.77	669.50	824.44	920.43	942.61	903.04	790.92	622.51	400.67	155.49
B0.0	2.07	212.69	471.20	692.75	855.38	951.69	977.98	933.88	821.18	644.95	418.03	162.62
B15.0	2.07	203.16	455.09	665.87	825.37	915.60	943.80	898.08	791.74	619.01	401.33	154.72
B30.0	2.07	177.36	400.63	588.44	733.36	811.14	838.69	794.53	701.58	543.96	350.10	132.09
B45.0	2.07	137.58	315.02	464.43	585.03	644.32	668.96	629.26	555.54	423.88	268.49	98.04
B60.0	2.07	90.00	205.77	304.69	390.03	427.15	445.94	414.11	364.52	269.87	167.30	59.24
B75.0	2.07	41.77	95.85	137.39	178.49	190.12	200.12	180.45	160.18	113.38	70.19	24.42
B90.0	2.07	1.69	6.24	7.44	12.22	7.45	6.06	4.94	5.05	2.34	1.90	1.74

V/H	β 90.0
B-90.0	2.24
B-75.0	2.24
B-60.0	2.24
B-45.0	2.24
B-30.0	2.24
B-15.0	2.24
B0.0	2.24
B15.0	2.24
B30.0	2.24
B45.0	2.24
B60.0	2.24
B75.0	2.24
B90.0	2.24