IES Flood Report
Photometric Filename: HCP-3365194.IES

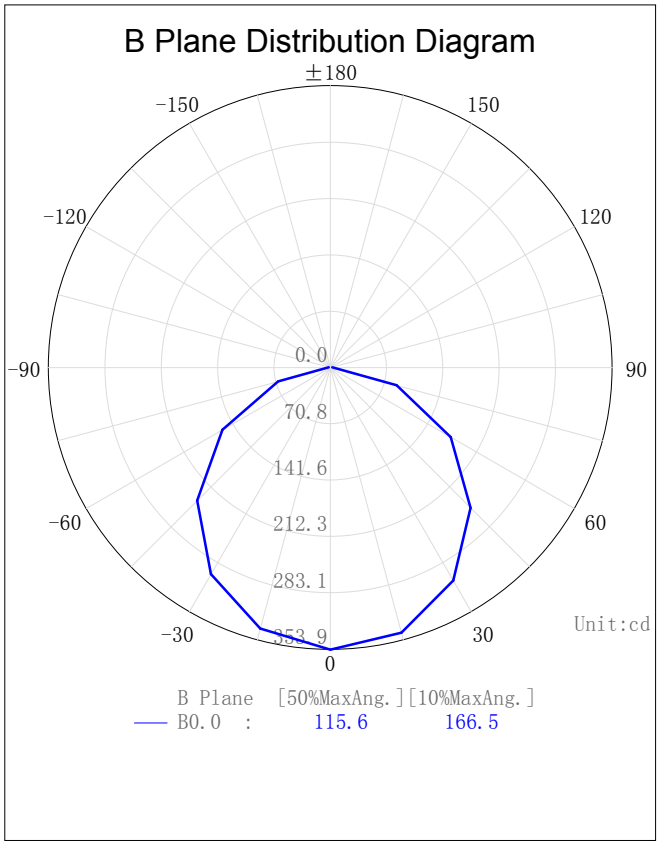
Flood Luminaire Photometric Data

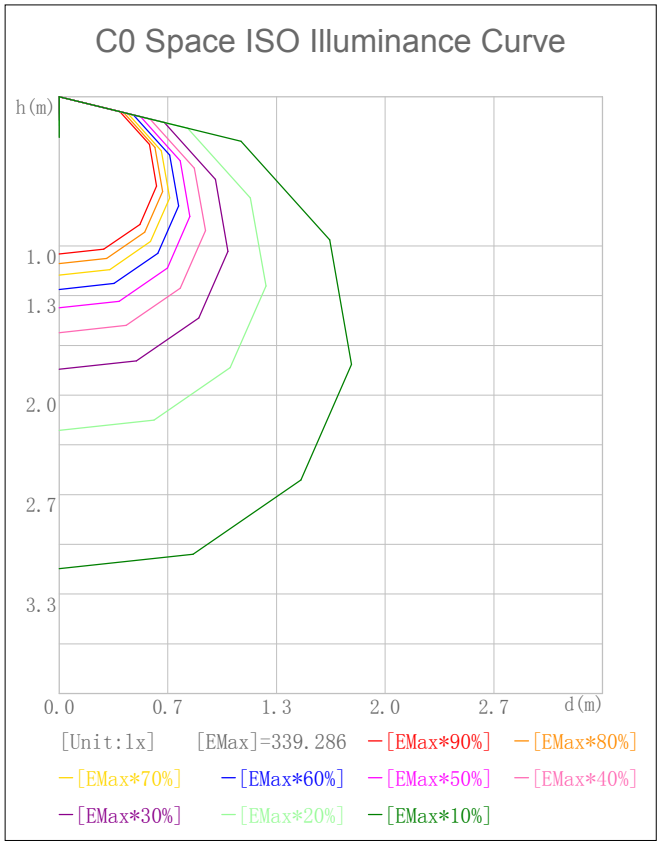
Description Information

Luminary Name: HCP-3365194		Lum. Catelog:	Test ID:
Lamp Name: 2110 4000K		Lamp Catelog:	Test Date: 2019/07/16
Manufacture: HAVIT COMMERCIAL		Shld.Ang(°):	Test Machine:GON-2000
Test Lab:		Frequency(Hz):	Lamp CCT(K): Ra:
Lum.Size(W*L*H):0.010m*1.000m*0.010m		Lum.Area(m2):0.020	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):	1382.800	Luminary Flux(lm):	1146.105	Beam Lumens(lm):	840.72
Rated Power(W):		Luminary Efficiency:	82.88%	Beam Efficiency(%):	73.35
Rated Voltage(V):		Luminary EER(lm/W):	60.449	Field Lumens(lm):	1132.30
Tested Power(W):	18.960	Max.Candela(cd):	353.909	Field Efficiency(%):	98.80
Lamps' Inside:	1	Max Cand@Ang.(°):	B=0.0 β=0.0	ErP Φuse(120°):	828.9291m
Tested Electrics(V,A,pf):24.0,0.79,0.000		Beam Angle(50%)(V,H):	128.6(°),115.6(°)	IRF(%):	105.346
Lamp Size(W*L*H):0.010m*1.000m*0.010m		Field Angle(10%)(V,H):	176.6(°),166.5(°)		





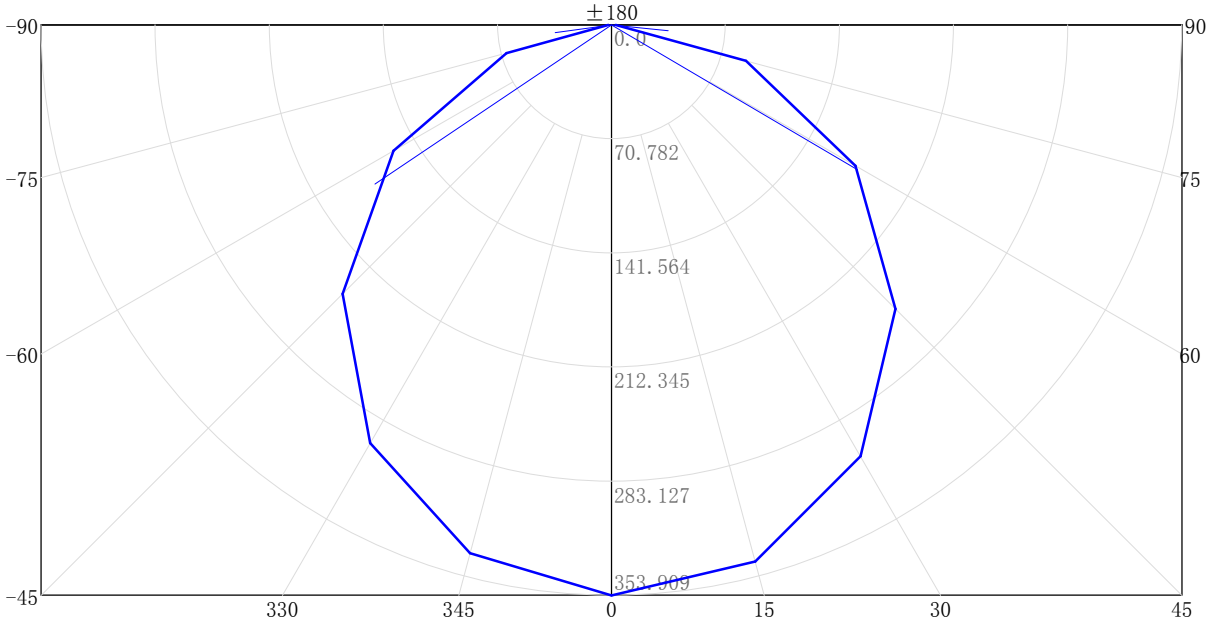
HAVIT LIGHTING
143 BEAUCHAMP RD., MATRAVILLE,NSW 2036 AUSTRALIA

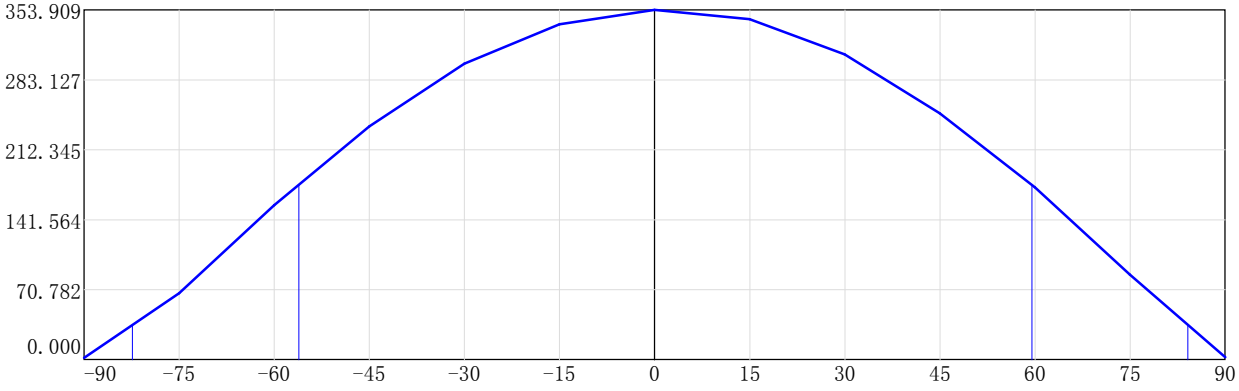
IES Flood Report
Photometric Filename: HCP-3365194.IES

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-3365194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/16

B Plane Distribution Diagram





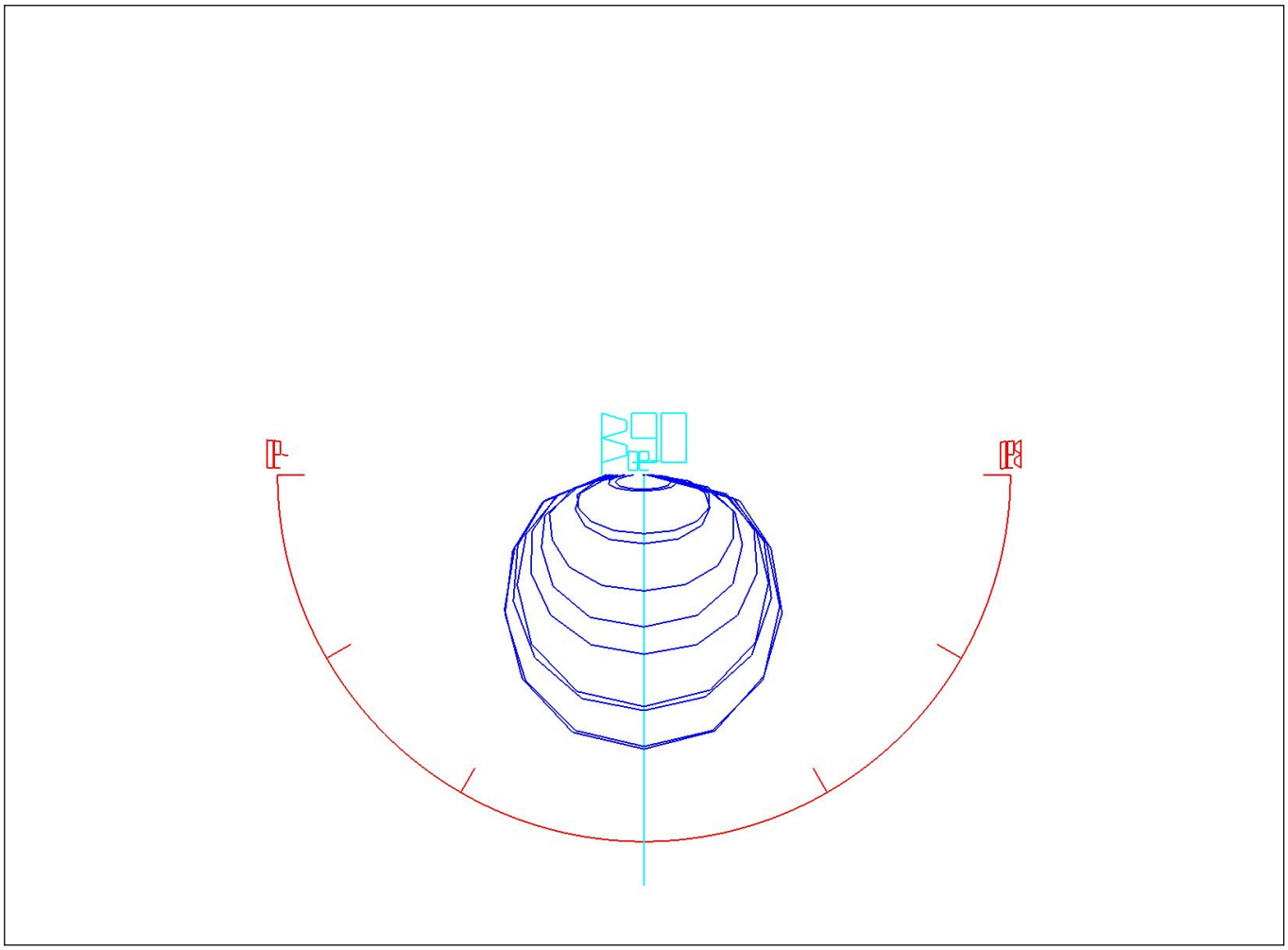
	B Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
	B0.0 :	115.6	166.5	

IES Flood Report
Photometric Filename: HCP-3365194.IES

3D Light Intensity Distribution Modal

Lum.Name: HCP-3365194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/16

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-3365194.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	0.78	2.16	3.83	5.35	6.24	6.29	5.52	4.10	2.47	1.05	0.15	
B-75.0	0.14	1.36	3.94	6.98	9.58	11.14	11.28	9.87	7.34	4.34	1.69	0.21	
B-60.0	0.21	1.96	5.47	9.53	13.00	15.08	15.24	13.34	9.93	5.91	2.32	0.28	
B-45.0	0.26	2.41	6.65	11.68	16.14	18.79	18.96	16.55	12.18	7.17	2.82	0.34	
B-30.0	0.29	2.74	7.61	13.48	18.68	21.73	21.92	19.12	14.04	8.21	3.20	0.38	
B-15.0	0.31	2.90	8.08	14.36	19.93	23.20	23.39	20.39	14.95	8.72	3.38	0.39	
B0.0	0.30	2.88	8.04	14.30	19.88	23.17	23.34	20.34	14.92	8.69	3.36	0.39	
B15.0	0.29	2.70	7.50	13.33	18.53	21.64	21.80	19.01	13.96	8.14	3.15	0.36	
B30.0	0.25	2.34	6.47	11.45	15.90	18.59	18.76	16.39	12.07	7.06	2.75	0.32	
B45.0	0.19	1.86	5.20	9.14	12.58	14.68	14.84	13.05	9.72	5.73	2.22	0.25	
B60.0	0.13	1.26	3.63	6.50	8.99	10.51	10.63	9.37	6.98	4.09	1.57	0.18	
B75.0	0.06	0.50	1.44	2.63	3.70	4.42	4.54	4.04	3.01	1.76	0.72	0.10	
B90.0													
Total	2.52	23.70	66.20	117.20	162.25	189.18	190.98	167.00	123.21	72.28	28.24	3.35	

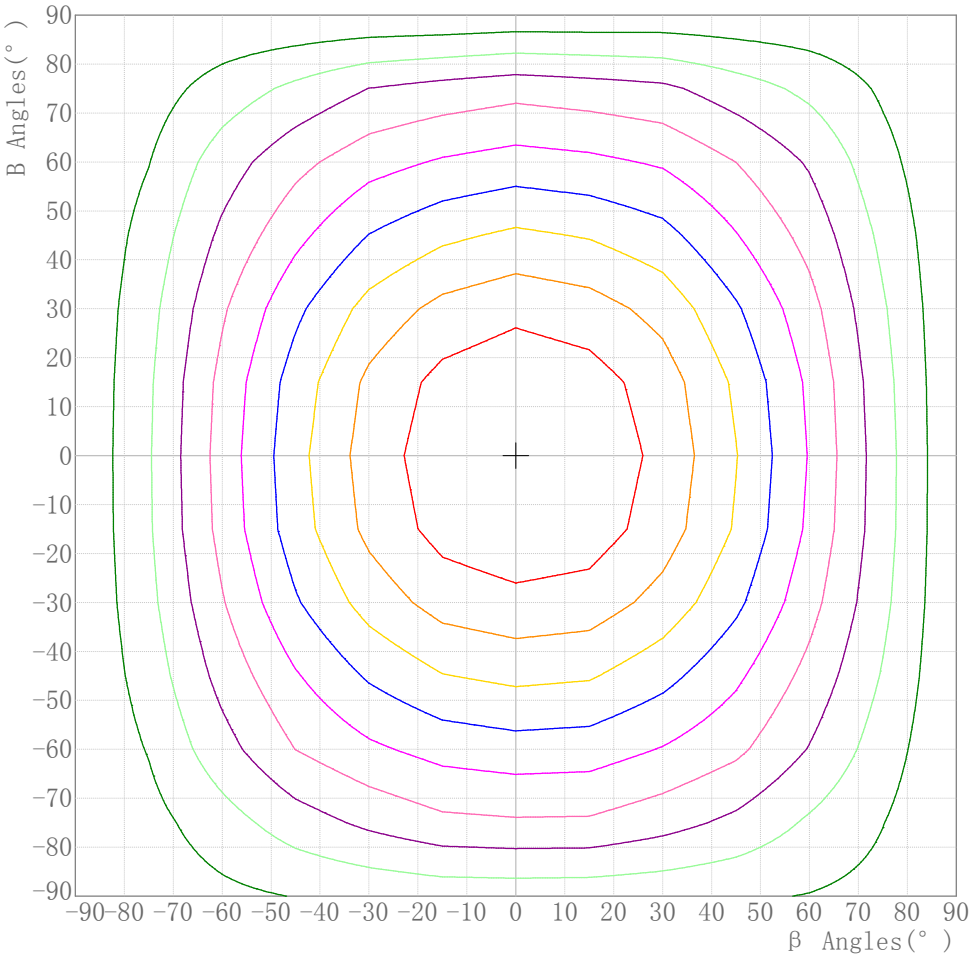
	β 90.0	Total
B-90.0		38.02
B-75.0		67.89
B-60.0		92.25
B-45.0		113.95
B-30.0		131.40
B-15.0		139.99
B0.0		139.61
B15.0		130.43
B30.0		112.34
B45.0		89.47
B60.0		63.83
B75.0		26.93
B90.0		
Total		1146.11

IES Flood Report
Photometric Filename: HCP-3365194.IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-3365194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/16

ISO Lighting Intensity Curve



Curves:
[Unit: cd]
[IMax] =353.909
[IMax*90%]=318.518
[IMax*80%]=283.127
[IMax*70%]=247.736
[IMax*60%]=212.345
[IMax*50%]=176.954
[IMax*40%]=141.564
[IMax*30%]=106.173
[IMax*20%]=70.782
[IMax*10%]=35.391

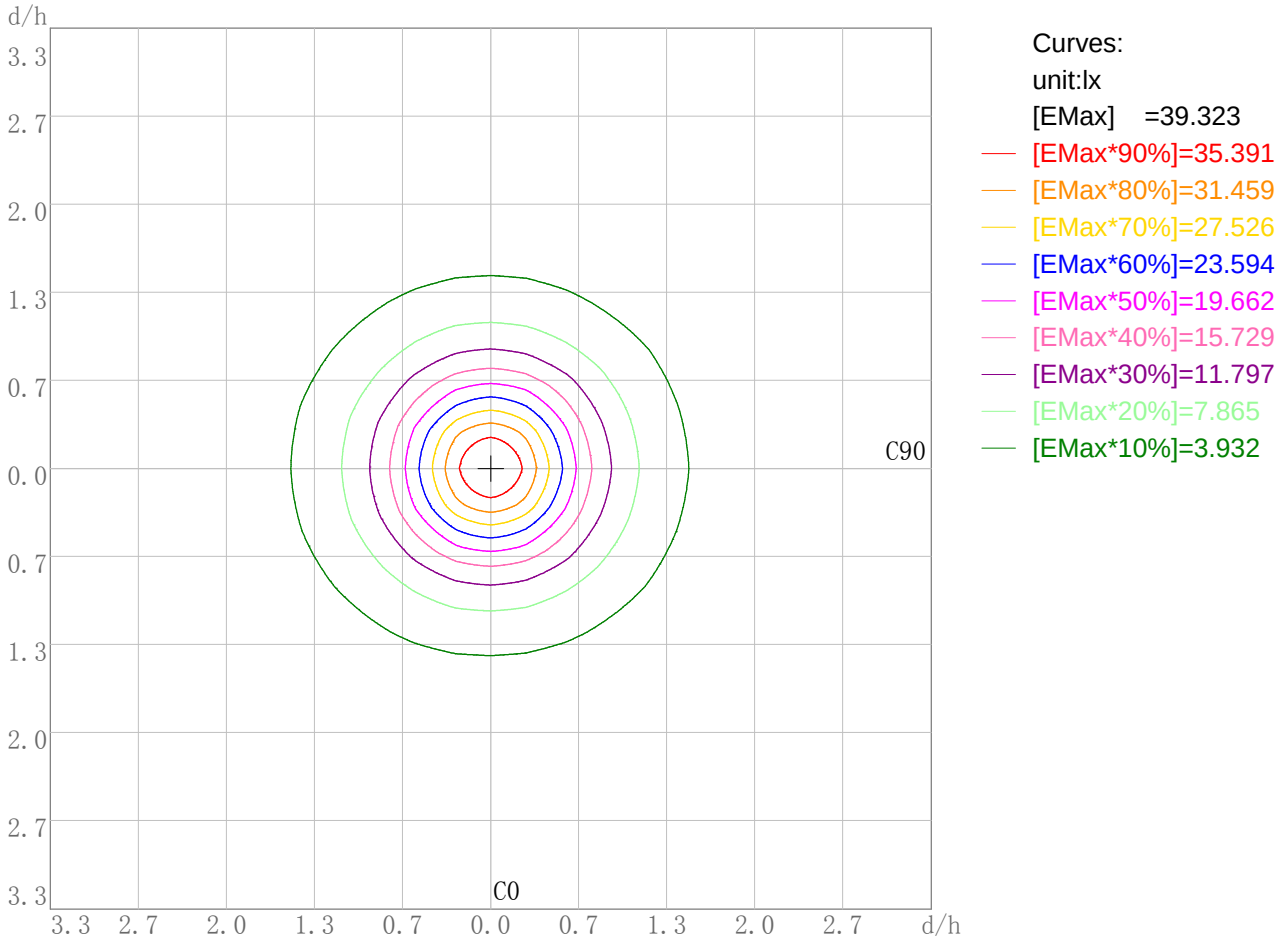
Maximum Light Intensity(cd): 353.91
Maximum Cand.@Angle: H=0.0°,V=0.0°

IES Flood Report
Photometric Filename: HCP-3365194.IES

Plane ISO-Illuminance Diagram

Lum.Name: HCP-3365194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/16

Plane ISO-Illuminance Curve



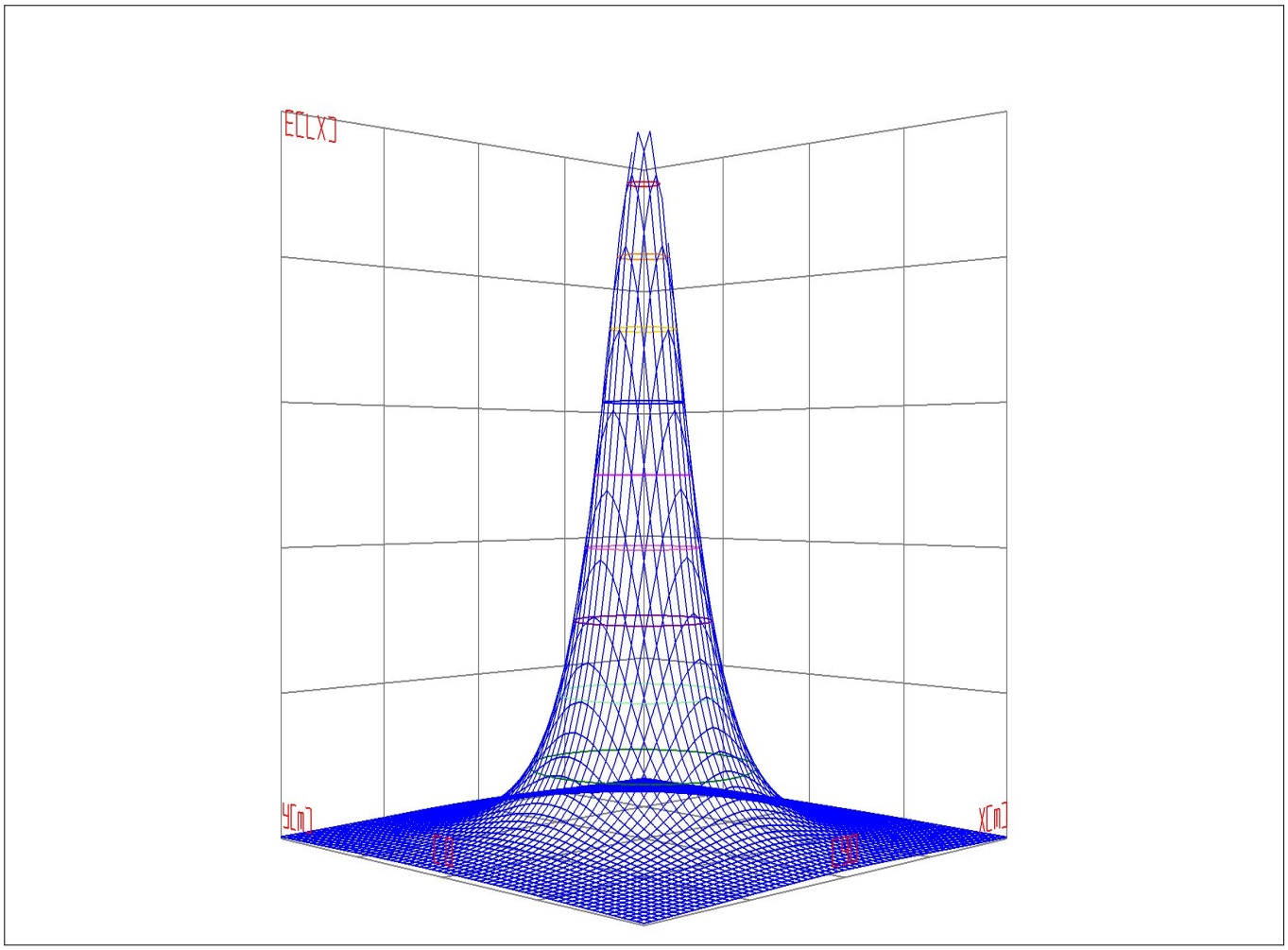
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 39.32
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

IES Flood Report
Photometric Filename: HCP-3365194.IES

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-3365194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/16

3D Plane Illuminance Modal



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

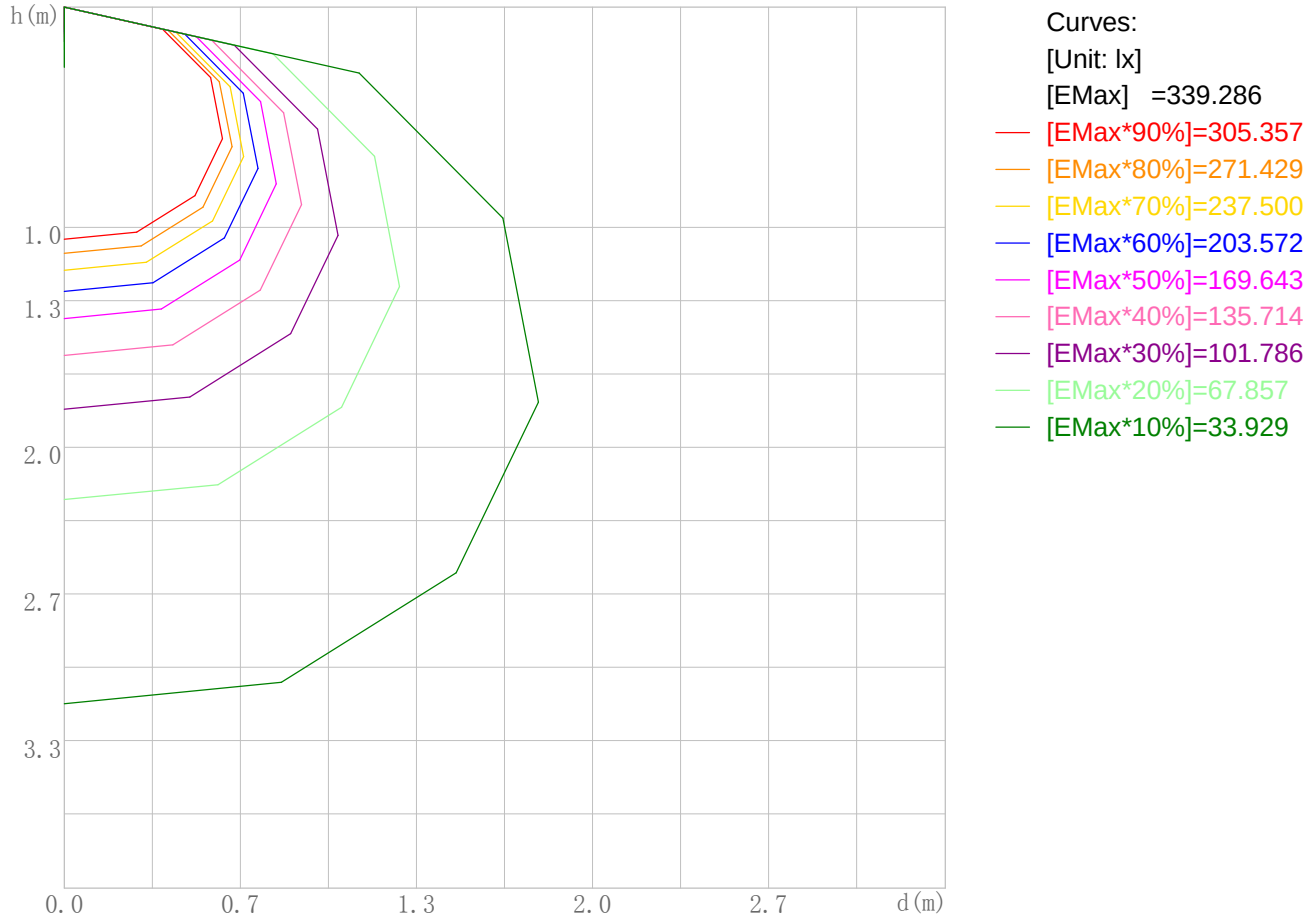
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

IES Flood Report
Photometric Filename: HCP-3365194.IES

Space ISO Illuminance Diagram

Lum.Name: HCP-3365194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/16

Space ISO Illuminance Curve



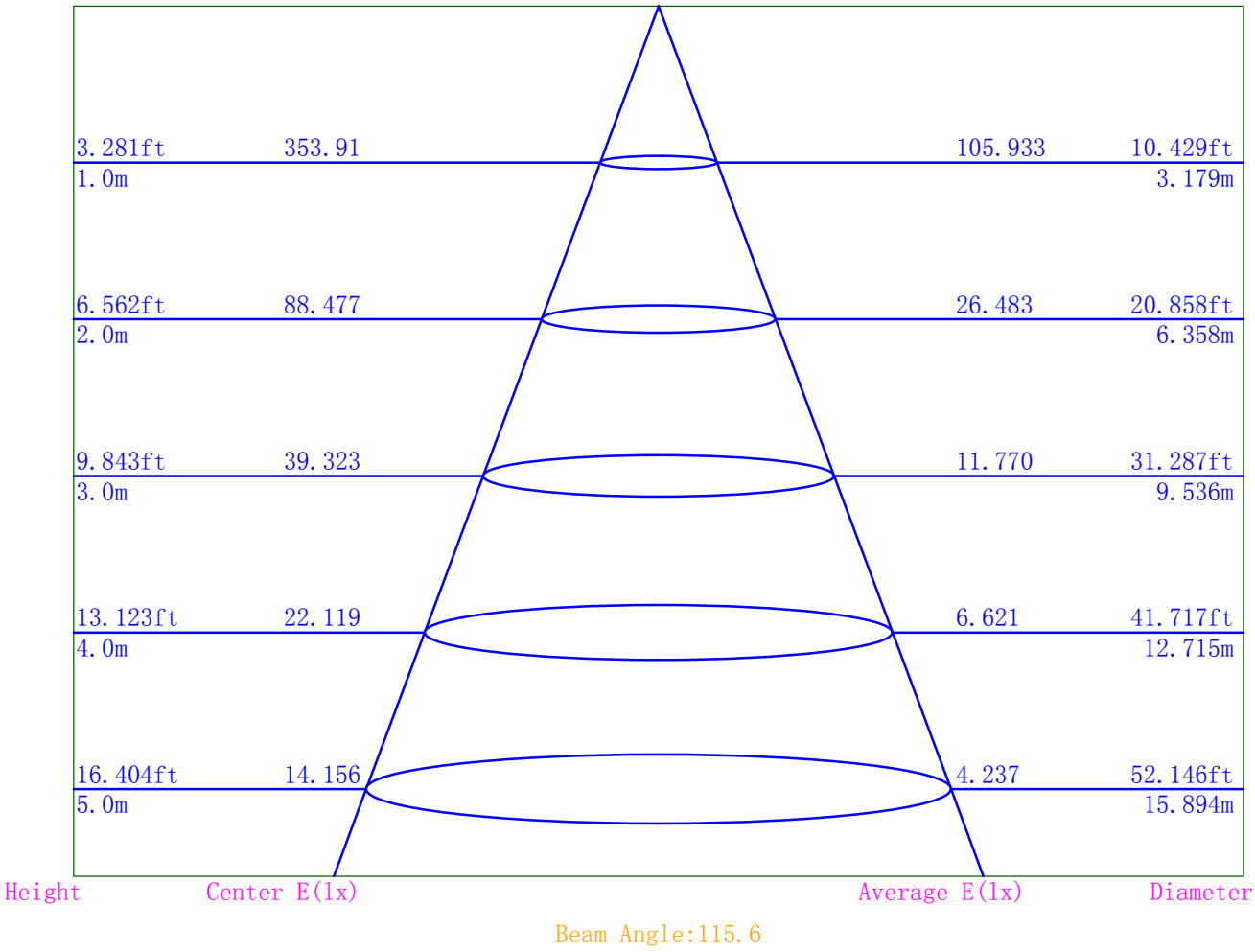
Space Plane Maximum Illuminance and @Angle:339.29lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:353.909cd,0eg

IES Flood Report
Photometric Filename: HCP-3365194.IES

Illuminance-Distance Diagram

Lum.Name: HCP-3365194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/16

Illuminance-Distance Curve



Beam Angle:115.6

IES Flood Report
Photometric Filename: HCP-3365194.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	1.91	13.55	26.88	36.58	43.24	48.54	49.39	48.30	45.38	40.23	33.95	24.27
B-75.0	1.91	23.23	55.43	89.09	113.69	133.15	137.10	136.42	119.51	97.70	65.63	36.20
B-60.0	1.91	37.50	92.57	141.96	170.21	189.91	197.57	194.63	175.01	149.46	104.27	52.57
B-45.0	1.91	50.99	118.13	173.71	216.95	246.18	256.37	251.33	223.98	183.86	130.36	67.92
B-30.0	1.91	61.03	138.79	208.55	262.11	297.49	309.00	302.86	270.37	220.38	154.29	79.37
B-15.0	1.91	66.49	153.06	231.33	292.38	331.47	344.89	337.15	301.05	244.02	170.19	85.32
B0.0	1.91	67.49	156.27	235.98	299.45	339.29	353.91	344.65	308.91	249.20	174.66	86.29
B15.0	1.91	65.39	151.89	228.51	290.65	329.73	344.87	334.33	300.80	241.55	170.30	82.91
B30.0	1.91	59.28	136.69	204.46	260.07	293.66	309.21	298.52	270.82	216.88	154.08	74.92
B45.0	1.91	48.58	113.41	167.20	213.28	239.99	254.56	244.90	224.26	178.71	128.99	62.35
B60.0	1.91	34.33	88.48	130.93	162.97	180.80	191.27	185.05	172.48	141.27	102.09	46.44
B75.0	1.91	18.67	50.66	78.90	106.58	119.03	129.08	122.07	113.69	87.64	62.08	30.24
B90.0	1.91	3.24	4.66	4.07	4.39	4.57	8.21	8.91	10.97	9.87	9.94	8.18

V/H	β 90.0
B-90.0	2.53
B-75.0	2.53
B-60.0	2.53
B-45.0	2.53
B-30.0	2.53
B-15.0	2.53
B0.0	2.53
B15.0	2.53
B30.0	2.53
B45.0	2.53
B60.0	2.53
B75.0	2.53
B90.0	2.53