IES Flood Report
Photometric Filename: HCP-3355483.IES

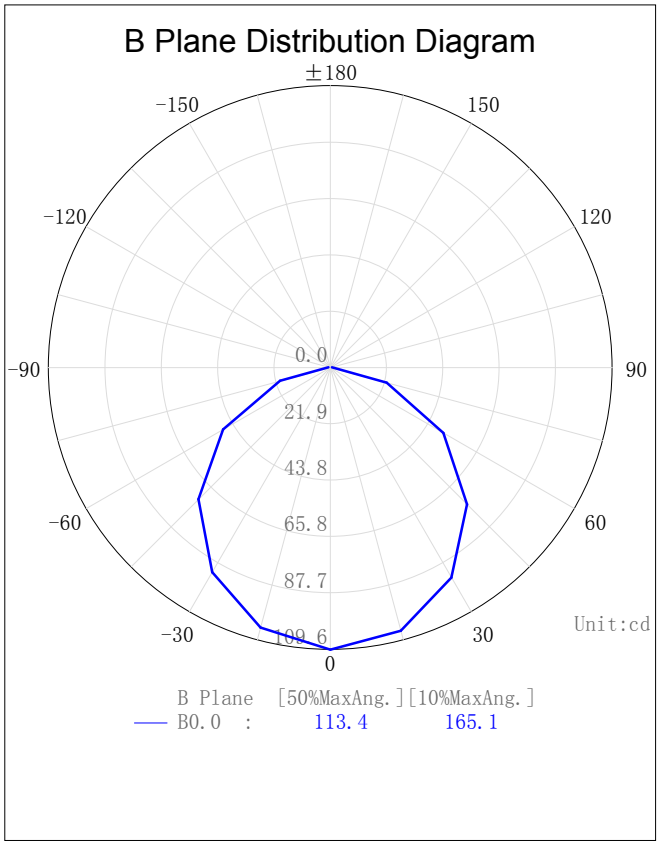
Flood Luminaire Photometric Data

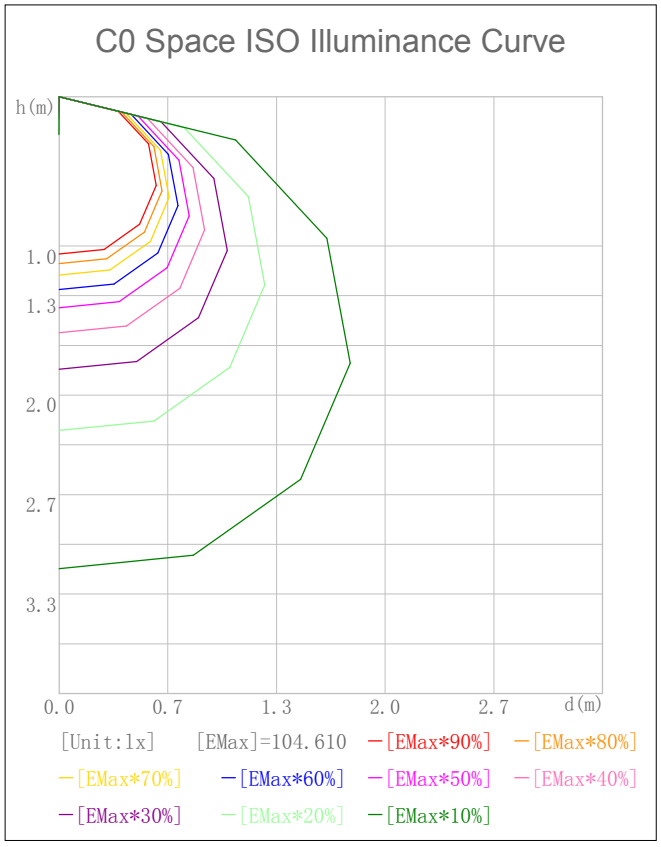
Description Information

Luminary Name: HCP-3355483		Lum. Catelog:	Test ID:
Lamp Name: 2110 3000K		Lamp Catelog:	Test Date: 2019/4/30
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):	342.210	Luminary Flux(lm):	330.997	Beam Lumens(lm):	240.32
Rated Power(W):		Luminary Efficiency:	96.72%	Beam Efficiency(%):	72.60
Rated Voltage(V):		Luminary EER(lm/W):	71.459	Field Lumens(lm):	324.48
Tested Power(W):	4.632	Max.Candela(cd):	109.611	Field Efficiency(%):	98.03
Lamps' Inside:	1	Max Cand@Ang.(°):	B=0.0 β=0.0	ErP Φuse(120°):	251.350lm
Tested Electrics(V,A,pf):24.0,0.1930,0.000		Beam Angle(50%)(V,H):	119.5(°),113.4(°	IRF(%):	107.089
Lamp Size(W*L*H):0.010m*1.000m*0.010m		Field Angle(10%)(V,H):	173.0(°),165.1(°)		





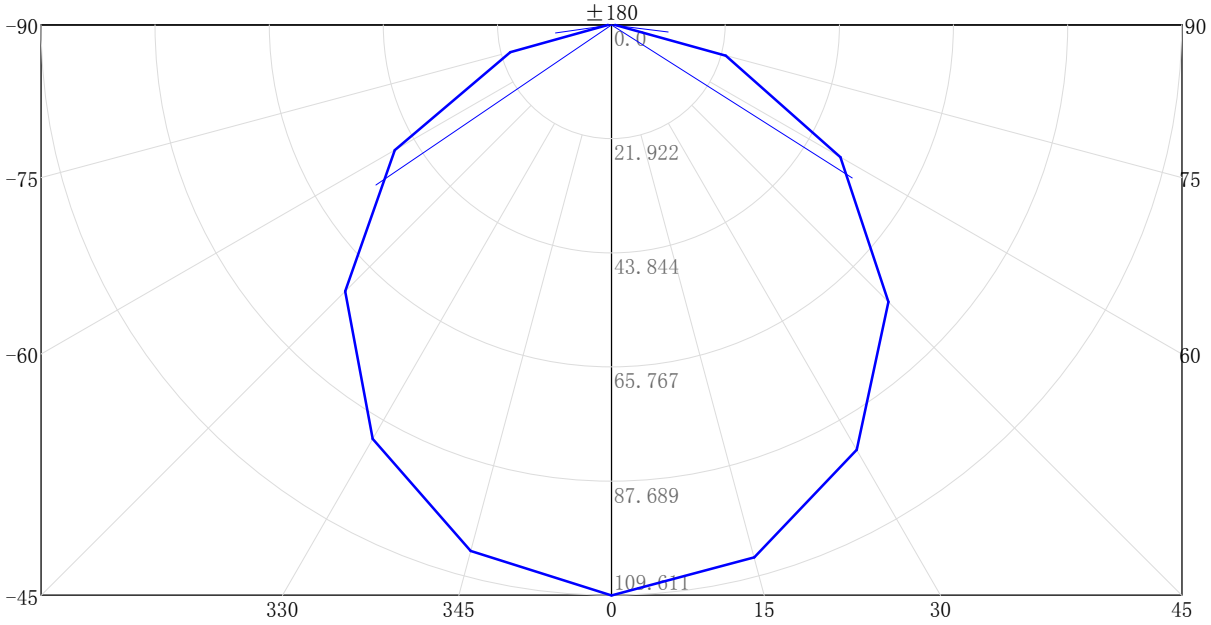
HAVIT COMMERCIAL
133 BEAUCHAMP RD., MATRAVILLE,NSW 2036 AUSTRALIA

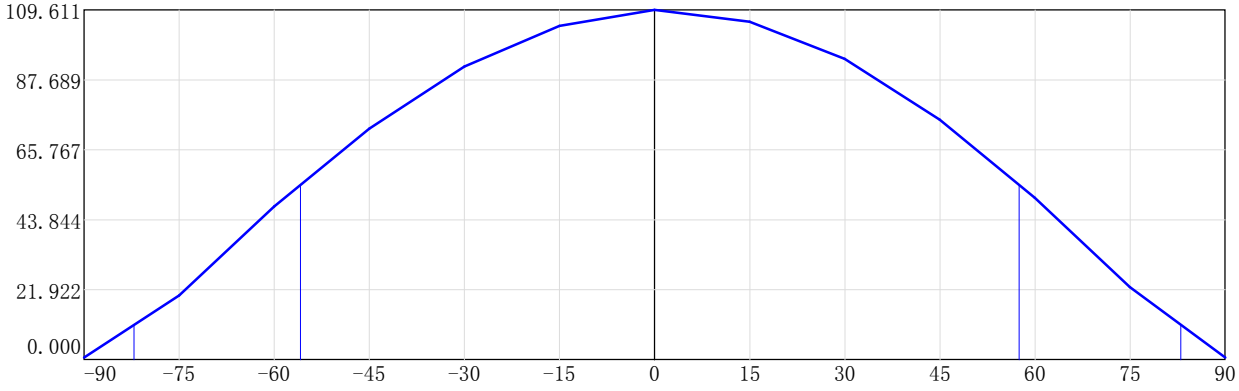
IES Flood Report
Photometric Filename: HCP-3355483.IES

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-3355483	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/4/30

B Plane Distribution Diagram





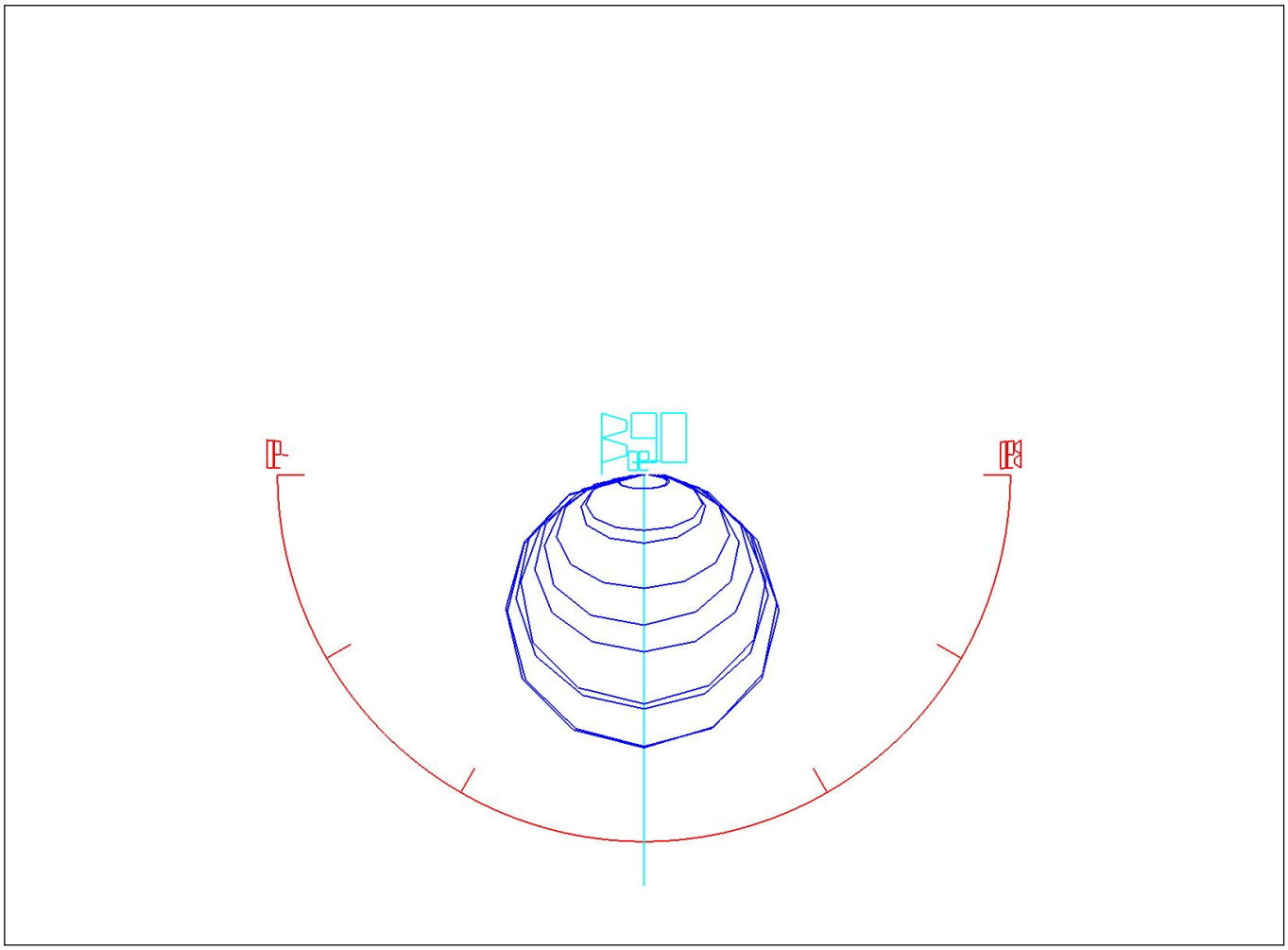
B Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
B0.0 :	113.4	165.1	

IES Flood Report
Photometric Filename: HCP-3355483.IES

3D Light Intensity Distribution Modal

Lum.Name: HCP-3355483	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/4/30

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-3355483.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	0.02	0.13	0.38	0.67	0.93	1.08	1.09	0.93	0.66	0.37	0.14	0.02	
B-75.0	0.03	0.32	0.96	1.75	2.49	2.93	2.94	2.52	1.80	1.00	0.35	0.04	
B-60.0	0.05	0.52	1.52	2.73	3.82	4.47	4.49	3.87	2.80	1.58	0.56	0.06	
B-45.0	0.07	0.70	2.00	3.56	4.95	5.78	5.81	5.02	3.65	2.08	0.75	0.08	
B-30.0	0.09	0.82	2.33	4.13	5.74	6.70	6.73	5.83	4.24	2.42	0.88	0.10	
B-15.0	0.09	0.88	2.47	4.39	6.11	7.15	7.19	6.22	4.53	2.58	0.95	0.10	
B0.0	0.09	0.87	2.45	4.36	6.09	7.13	7.17	6.21	4.51	2.57	0.94	0.10	
B15.0	0.08	0.80	2.27	4.06	5.66	6.63	6.68	5.78	4.20	2.40	0.88	0.09	
B30.0	0.07	0.68	1.94	3.48	4.85	5.68	5.72	4.95	3.61	2.05	0.75	0.08	
B45.0	0.05	0.50	1.45	2.62	3.65	4.27	4.31	3.75	2.74	1.55	0.56	0.06	
B60.0	0.03	0.30	0.87	1.59	2.22	2.61	2.64	2.30	1.69	0.95	0.34	0.04	
B75.0	0.02	0.13	0.38	0.69	0.98	1.15	1.17	1.01	0.74	0.42	0.16	0.02	
B90.0													
Total	0.69	6.66	19.02	34.02	47.48	55.59	55.92	48.41	35.17	19.98	7.25	0.79	

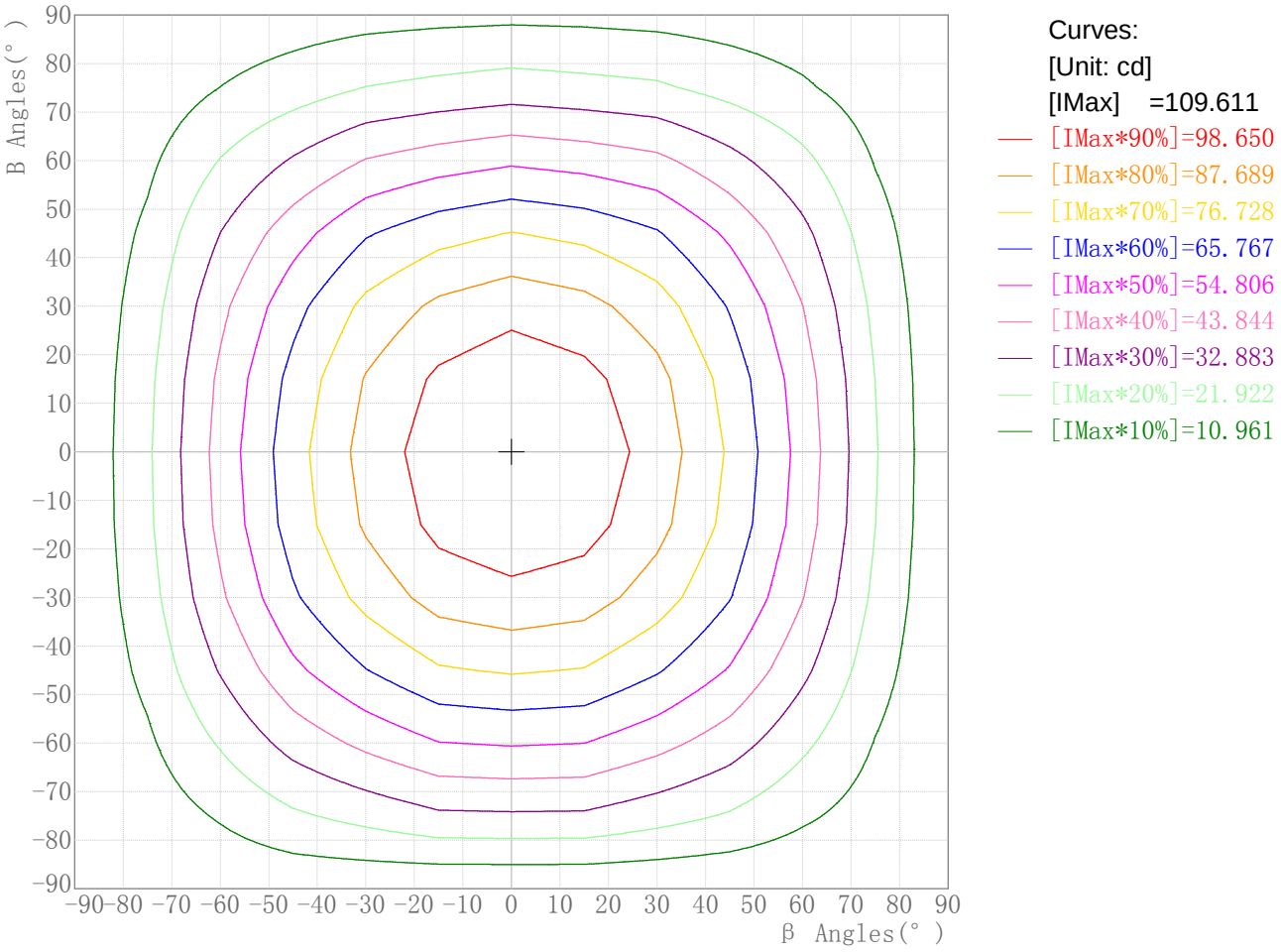
	β 90.0	Total
B-90.0		6.42
B-75.0		17.13
B-60.0		26.47
B-45.0		34.45
B-30.0		40.01
B-15.0		42.68
B0.0		42.50
B15.0		39.54
B30.0		33.84
B45.0		25.53
B60.0		15.58
B75.0		6.87
B90.0		
Total		331.00

IES Flood Report
Photometric Filename: HCP-3355483.IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-3355483	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/4/30

ISO Lighting Intensity Curve



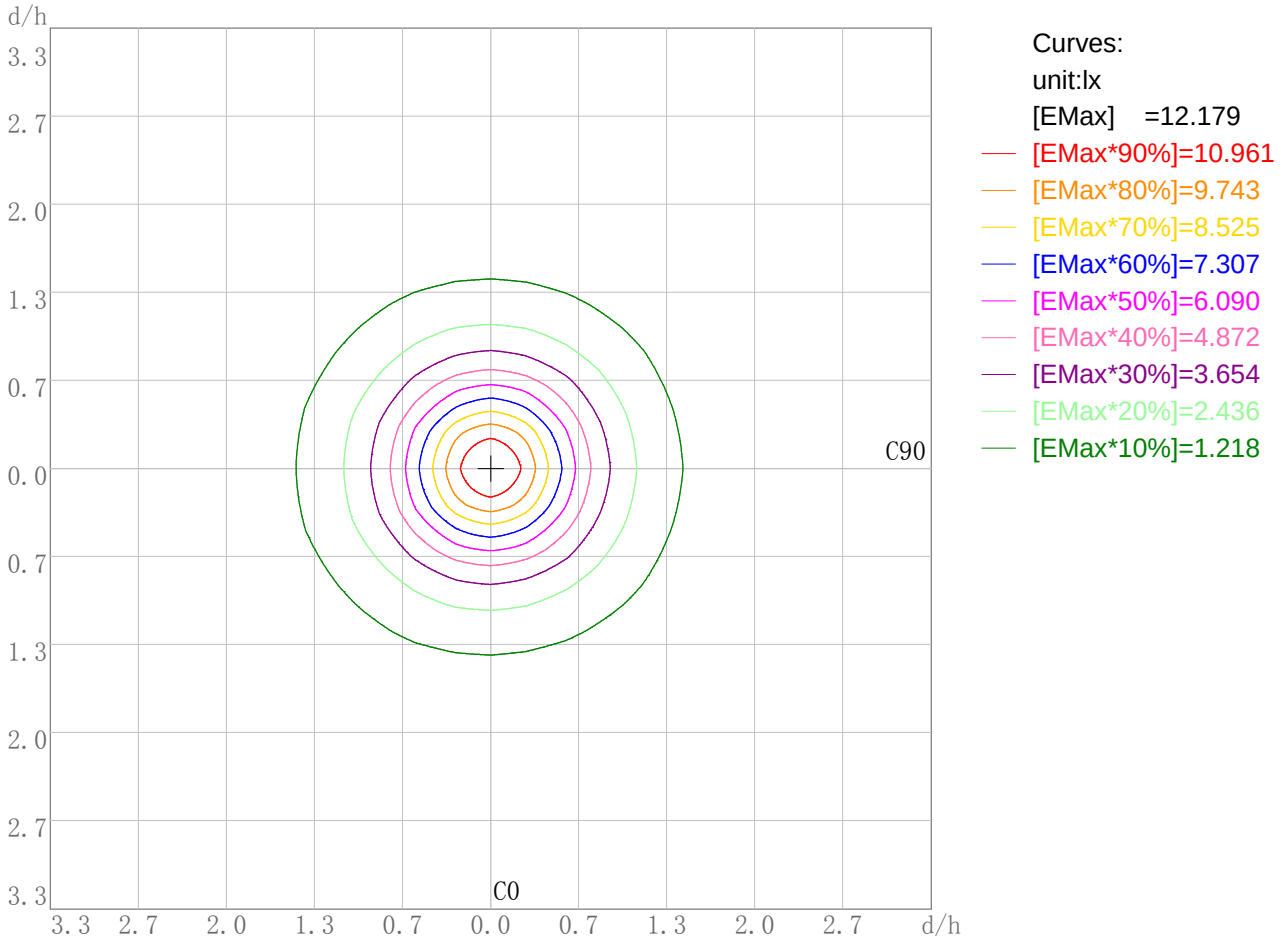
Maximum Light Intensity(cd): 109.61
Maximum Cand.@Angle: H=0.0°,V=0.0°

IES Flood Report
Photometric Filename: HCP-3355483.IES

Plane ISO-Illuminance Diagram

Lum.Name: HCP-3355483	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/4/30

Plane ISO-Illuminance Curve



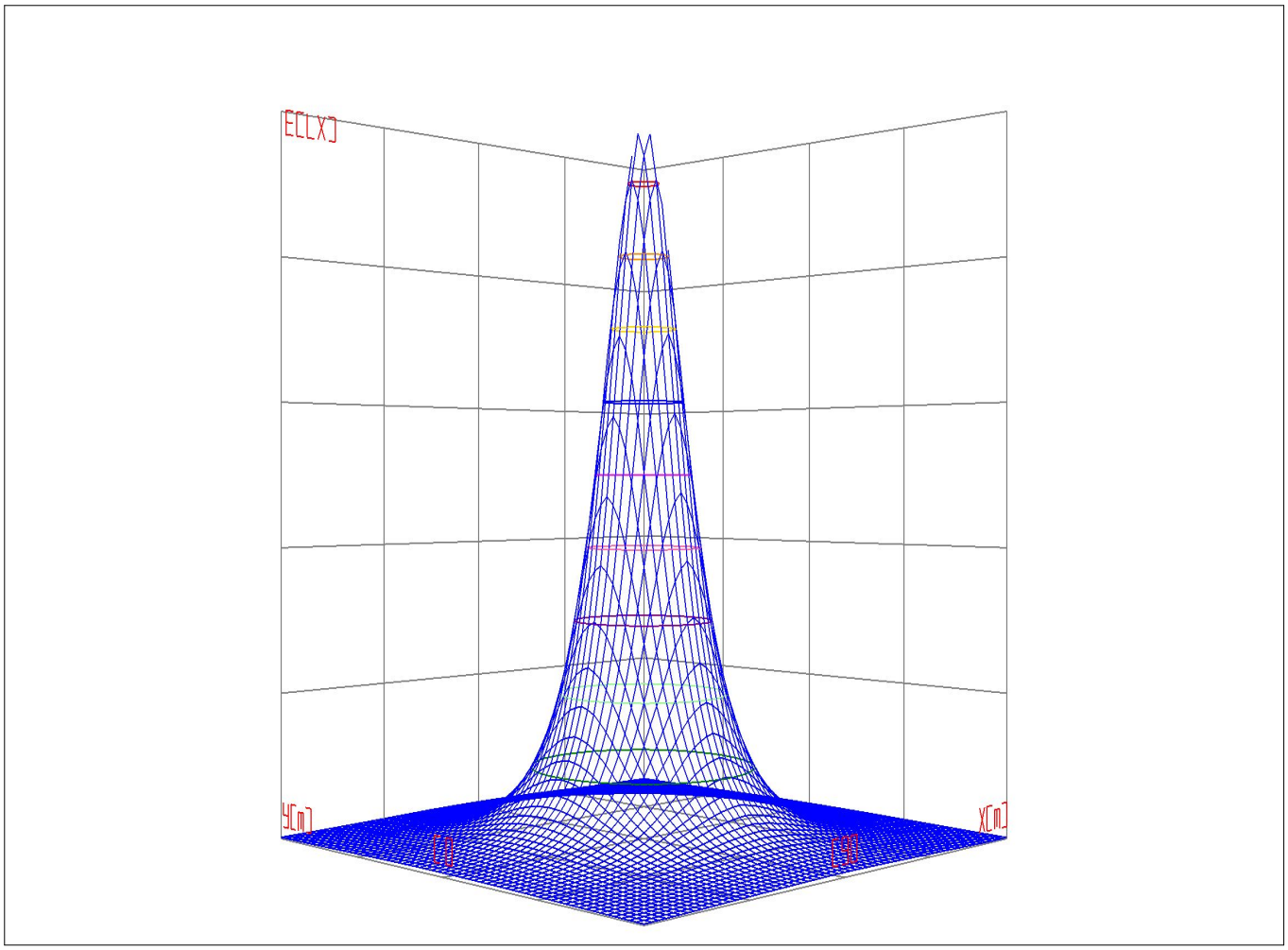
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 12.18
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

IES Flood Report
Photometric Filename: HCP-3355483.IES

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-3355483	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/4/30

3D Plane Illuminance Modal



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

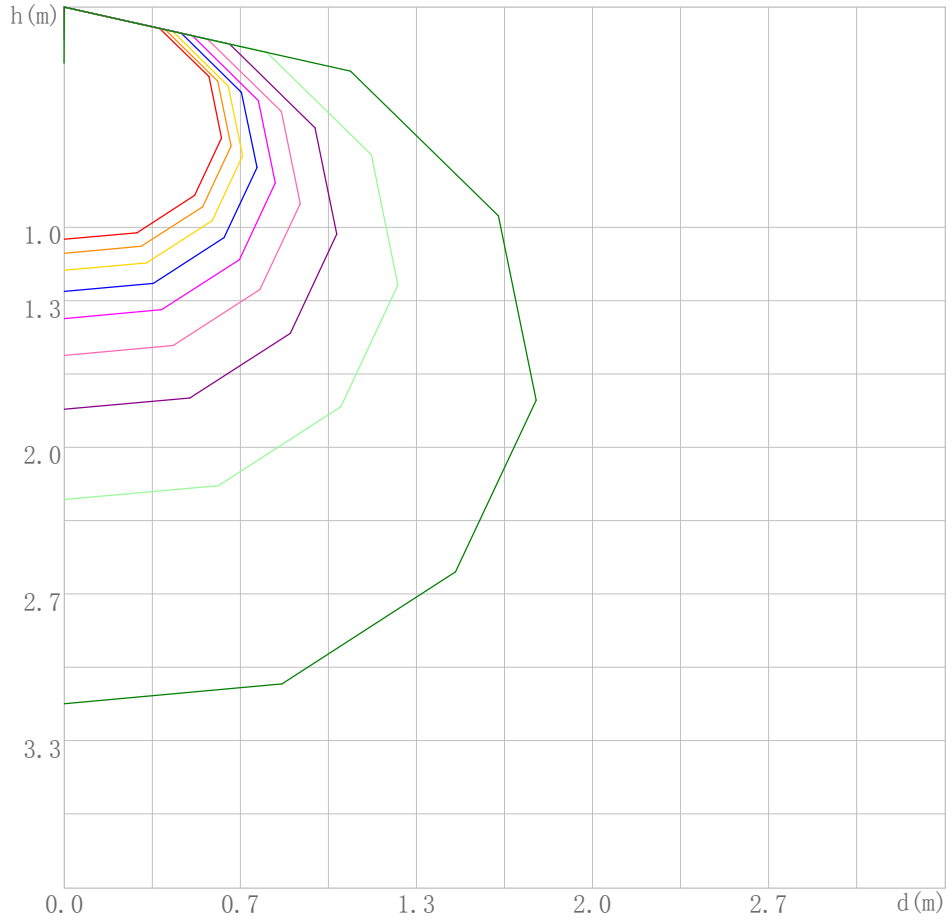
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

IES Flood Report
Photometric Filename: HCP-3355483.IES

Space ISO Illuminance Diagram

Lum.Name: HCP-3355483	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/4/30

Space ISO Illuminance Curve



Curves:
[Unit: lx]
[EMax] =104.610
[EMax*90%]=94.149
[EMax*80%]=83.688
[EMax*70%]=73.227
[EMax*60%]=62.766
[EMax*50%]=52.305
[EMax*40%]=41.844
[EMax*30%]=31.383
[EMax*20%]=20.922
[EMax*10%]=10.461

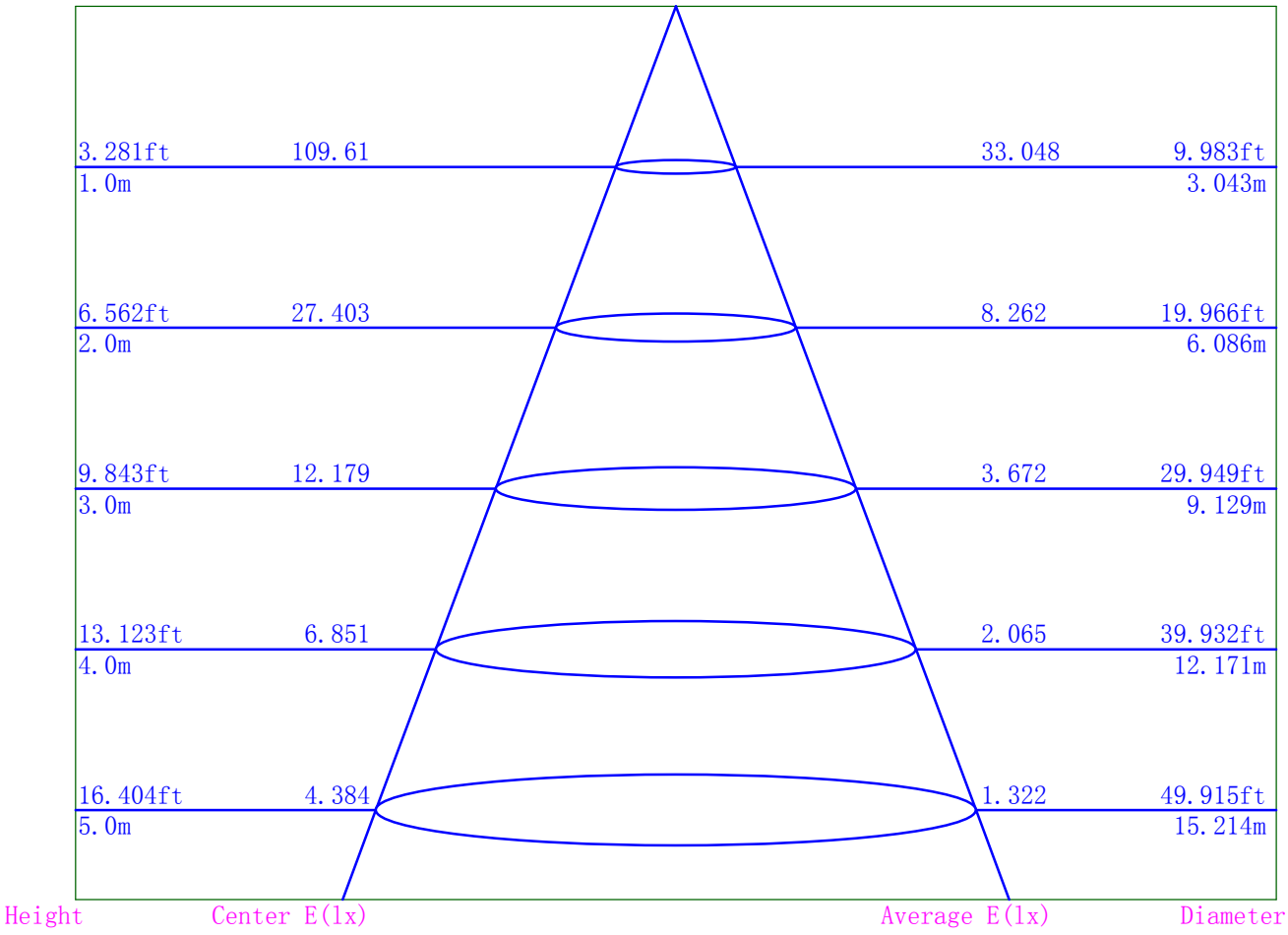
Space Plane Maximum Illuminance and @Angle:104.61lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:109.611cd,0eg

IES Flood Report
Photometric Filename: HCP-3355483.IES

Illuminance-Distance Diagram

Lum.Name: HCP-3355483	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/4/30

Illuminance-Distance Curve



Beam Angle:113.4

IES Flood Report
Photometric Filename: HCP-3355483.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	0.67	0.94	1.95	2.32	1.70	0.74	0.75	0.75	0.75	0.79	0.79	1.39
B-75.0	0.67	4.66	12.08	20.16	25.55	31.04	31.50	31.27	26.25	20.82	12.80	5.87
B-60.0	0.67	9.21	23.00	36.91	46.51	54.51	55.80	54.89	47.54	38.09	24.31	10.49
B-45.0	0.67	13.84	33.69	52.28	65.43	75.56	77.94	76.15	66.86	53.97	35.48	15.44
B-30.0	0.67	17.42	42.05	64.17	80.41	92.12	95.63	92.97	82.19	66.28	44.28	19.49
B-15.0	0.67	19.59	46.65	70.74	89.22	101.73	106.07	102.83	91.29	73.21	49.30	22.00
B0.0	0.67	20.15	48.06	72.40	91.82	104.61	109.61	105.92	94.25	75.22	50.77	22.75
B15.0	0.67	19.16	46.03	69.26	88.41	100.66	105.90	102.01	91.04	72.41	48.98	21.79
B30.0	0.67	16.60	41.03	62.07	79.51	90.03	95.07	91.30	81.82	64.89	44.01	19.23
B45.0	0.67	13.10	32.97	50.14	64.73	72.79	77.13	73.86	66.79	52.74	35.71	15.25
B60.0	0.67	8.72	22.32	33.95	44.38	49.44	52.98	50.48	46.40	36.31	24.57	10.33
B75.0	0.67	3.99	11.07	16.50	22.19	24.70	26.96	25.28	23.54	18.13	12.41	5.36
B90.0	0.67	1.75	3.77	5.44	6.92	7.97	8.44	8.14	7.20	5.79	4.05	2.06

V/H	β 90.0
B-90.0	0.67
B-75.0	0.67
B-60.0	0.67
B-45.0	0.67
B-30.0	0.67
B-15.0	0.67
B0.0	0.67
B15.0	0.67
B30.0	0.67
B45.0	0.67
B60.0	0.67
B75.0	0.67
B90.0	0.67