IES Flood Report
Photometric Filename: HCP-3355964.IES

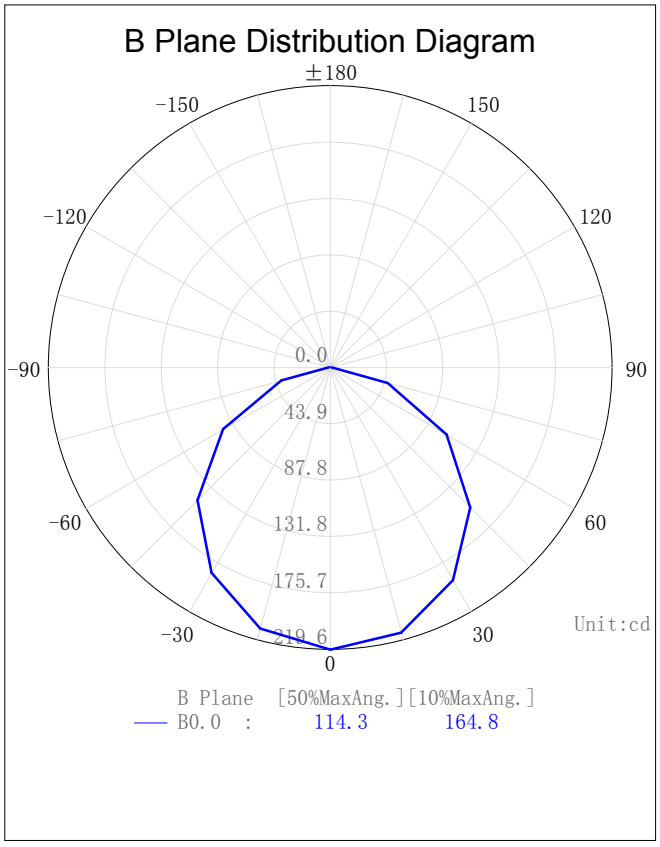
Flood Luminaire Photometric Data

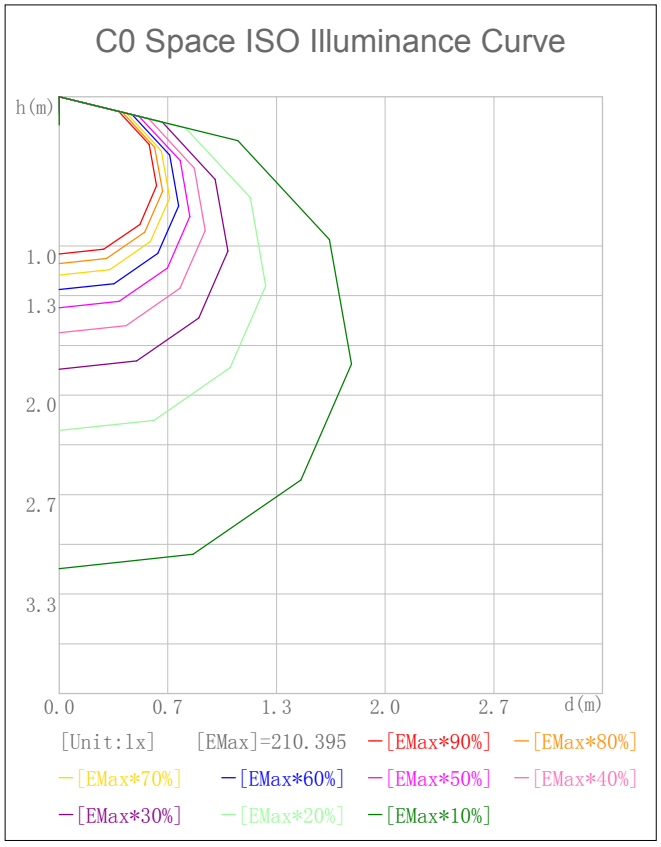
Description Information

Luminary Name: HCP-3355964		Lum. Catelog:	Test ID:
Lamp Name: 2110 4000K		Lamp Catelog:	Test Date: 2019/7/2
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):	713.890	Luminary Flux(lm):	691.413	Beam Lumens(lm): 513.43
Rated Power(W):		Luminary Efficiency:	96.85%	Beam Efficiency(%): 74.26
Rated Voltage(V):		Luminary EER(lm/W):	73.869	Field Lumens(lm): 680.43
Tested Power(W):	9.360	Max.Candela(cd):	219.617	Field Efficiency(%): 98.41
Lamps' Inside:	1	Max Cand@Ang.(°):	B=0.0 β=0.0	ErP Φuse(120°): 513.6241m
Tested Electrics(V,A,pf):24.0,0.390,0.000		Beam Angle(50%)(V,H):	126.7(°),114.3(°)	IRF(%): 105.463
Lamp Size(W*L*H):0.010m*1.000m*0.010m		Field Angle(10%)(V,H):	176.0(°),164.8(°)	





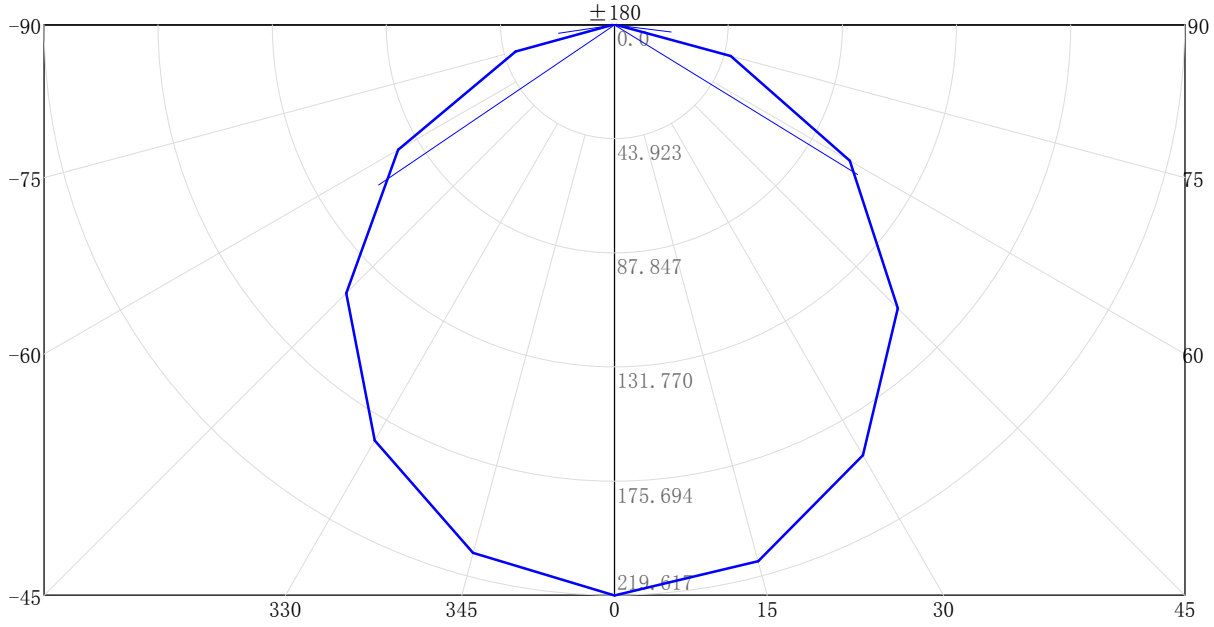
HAVIT COMMERCIAL
133 BEAUCHAMP RD., MATRAVILLE,NSW 2036 AUSTRALIA

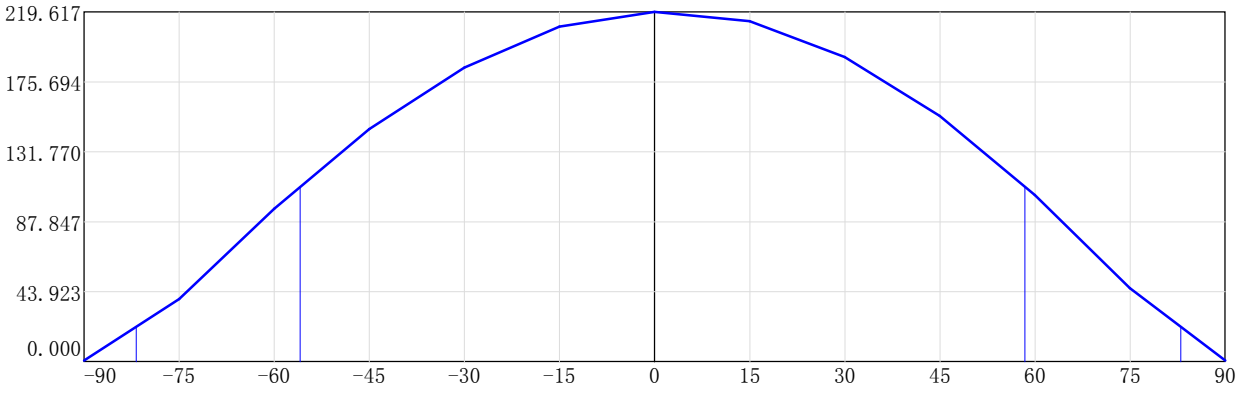
IES Flood Report
Photometric Filename: HCP-3355964.IES

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-3355964	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/7/2

B Plane Distribution Diagram





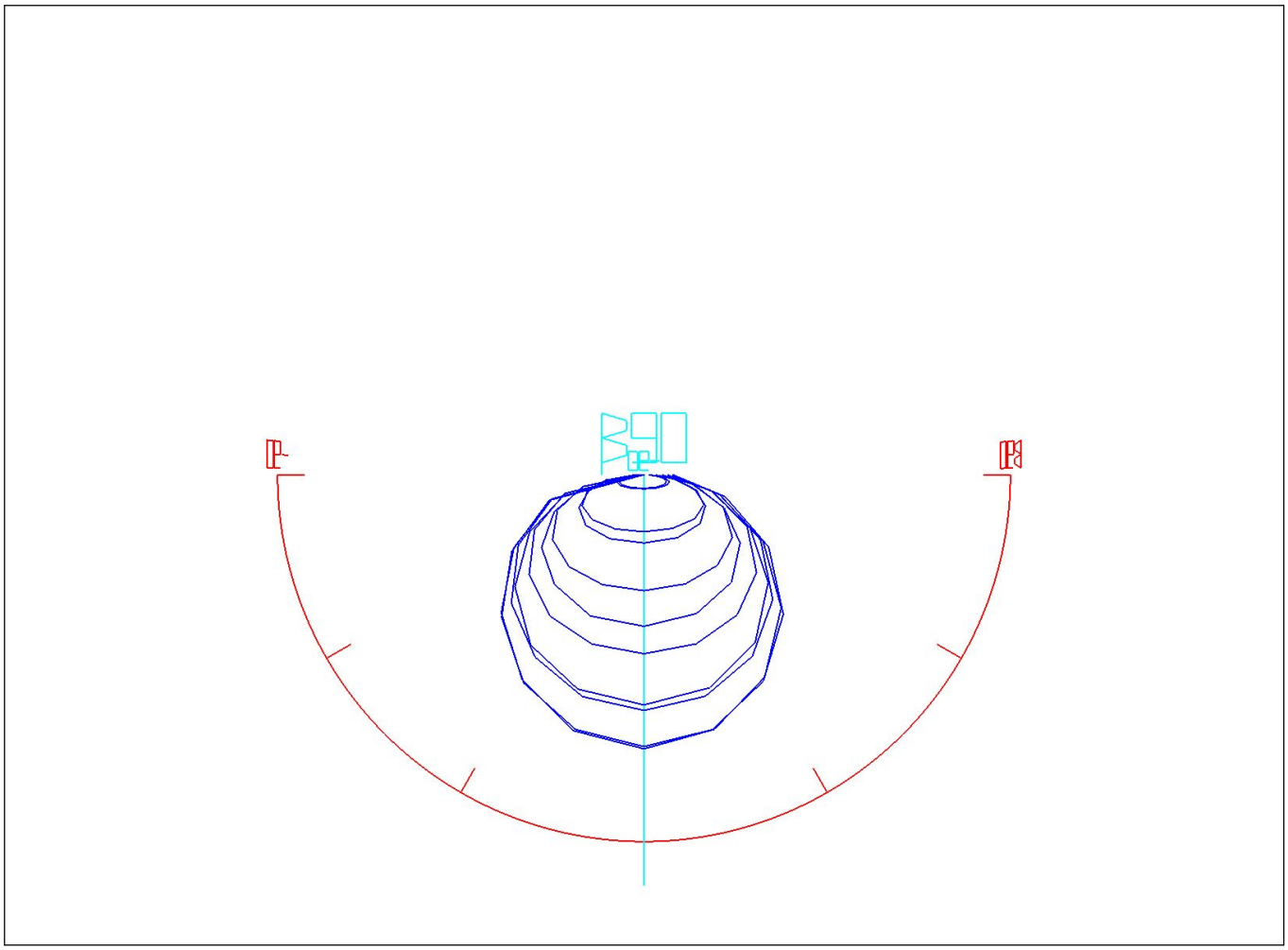
B Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
B0.0 :	114.3	164.8	

IES Flood Report
Photometric Filename: HCP-3355964.IES

3D Light Intensity Distribution Modal

Lum.Name: HCP-3355964	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/7/2

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-3355964.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	0.03	0.33	0.97	1.65	2.26	2.68	2.69	2.31	1.65	0.92	0.33	0.04	
B-75.0	0.07	0.71	2.18	4.03	5.73	6.75	6.79	5.86	4.21	2.33	0.81	0.08	
B-60.0	0.11	1.09	3.20	5.79	8.12	9.51	9.57	8.31	6.05	3.42	1.21	0.13	
B-45.0	0.14	1.42	4.05	7.26	10.13	11.83	11.91	10.36	7.60	4.35	1.57	0.16	
B-30.0	0.17	1.65	4.67	8.31	11.57	13.50	13.59	11.83	8.69	5.00	1.82	0.19	
B-15.0	0.18	1.75	4.98	8.85	12.30	14.36	14.46	12.59	9.23	5.31	1.95	0.21	
B0.0	0.17	1.74	4.94	8.81	12.27	14.34	14.46	12.59	9.22	5.29	1.93	0.21	
B15.0	0.16	1.60	4.58	8.20	11.47	13.43	13.54	11.78	8.62	4.93	1.79	0.19	
B30.0	0.13	1.34	3.90	7.05	9.89	11.62	11.73	10.20	7.45	4.23	1.52	0.16	
B45.0	0.10	1.01	2.97	5.44	7.69	9.07	9.16	7.95	5.76	3.23	1.14	0.12	
B60.0	0.06	0.63	1.90	3.56	5.09	6.04	6.10	5.25	3.75	2.05	0.71	0.07	
B75.0	0.03	0.31	0.93	1.75	2.52	3.00	3.03	2.57	1.80	0.97	0.33	0.04	
B90.0													
Total	1.35	13.57	39.27	70.69	99.03	116.13	117.03	101.59	74.02	42.04	15.11	1.58	

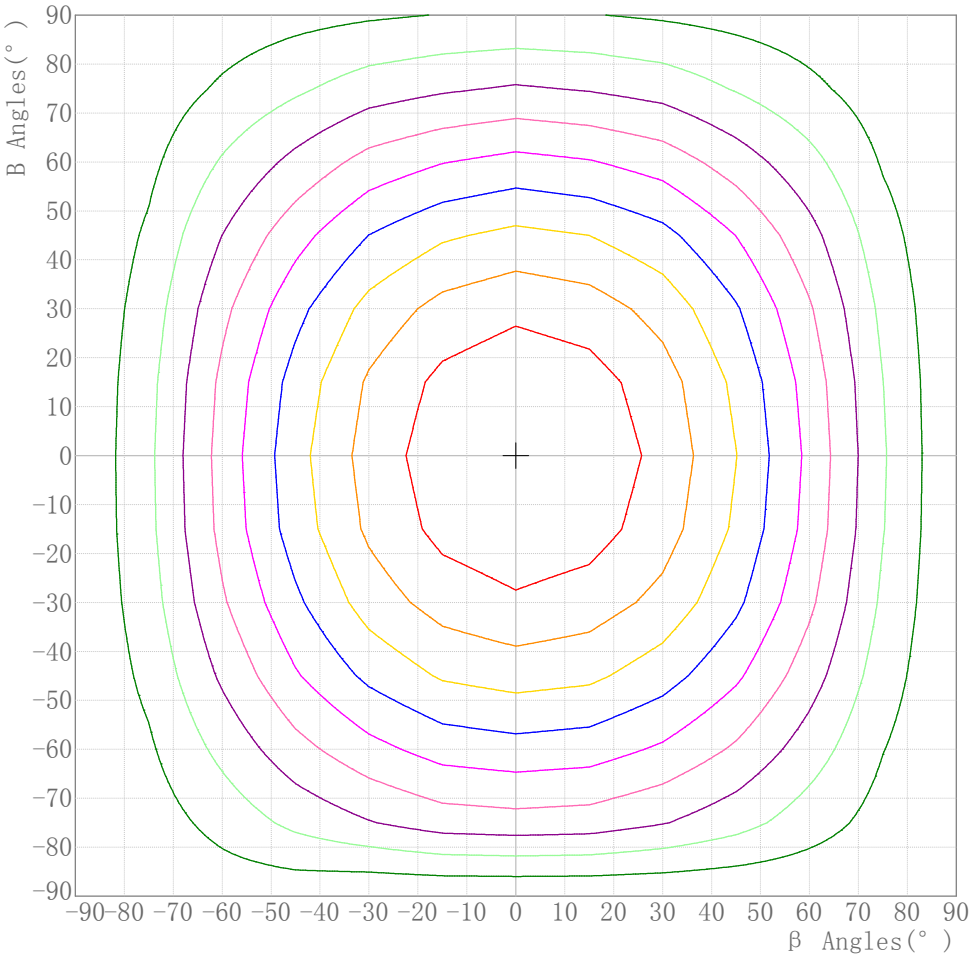
	β 90.0	Total
B-90.0		15.86
B-75.0		39.54
B-60.0		56.50
B-45.0		70.78
B-30.0		80.99
B-15.0		86.17
B0.0		85.96
B15.0		80.29
B30.0		69.21
B45.0		53.62
B60.0		35.20
B75.0		17.28
B90.0		
Total		691.41

IES Flood Report
Photometric Filename: HCP-3355964.IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-3355964	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/7/2

ISO Lighting Intensity Curve



Curves:
[Unit: cd]
[IMax] =219.617
[IMax*90%]=197.655
[IMax*80%]=175.694
[IMax*70%]=153.732
[IMax*60%]=131.770
[IMax*50%]=109.809
[IMax*40%]=87.847
[IMax*30%]=65.885
[IMax*20%]=43.923
[IMax*10%]=21.962

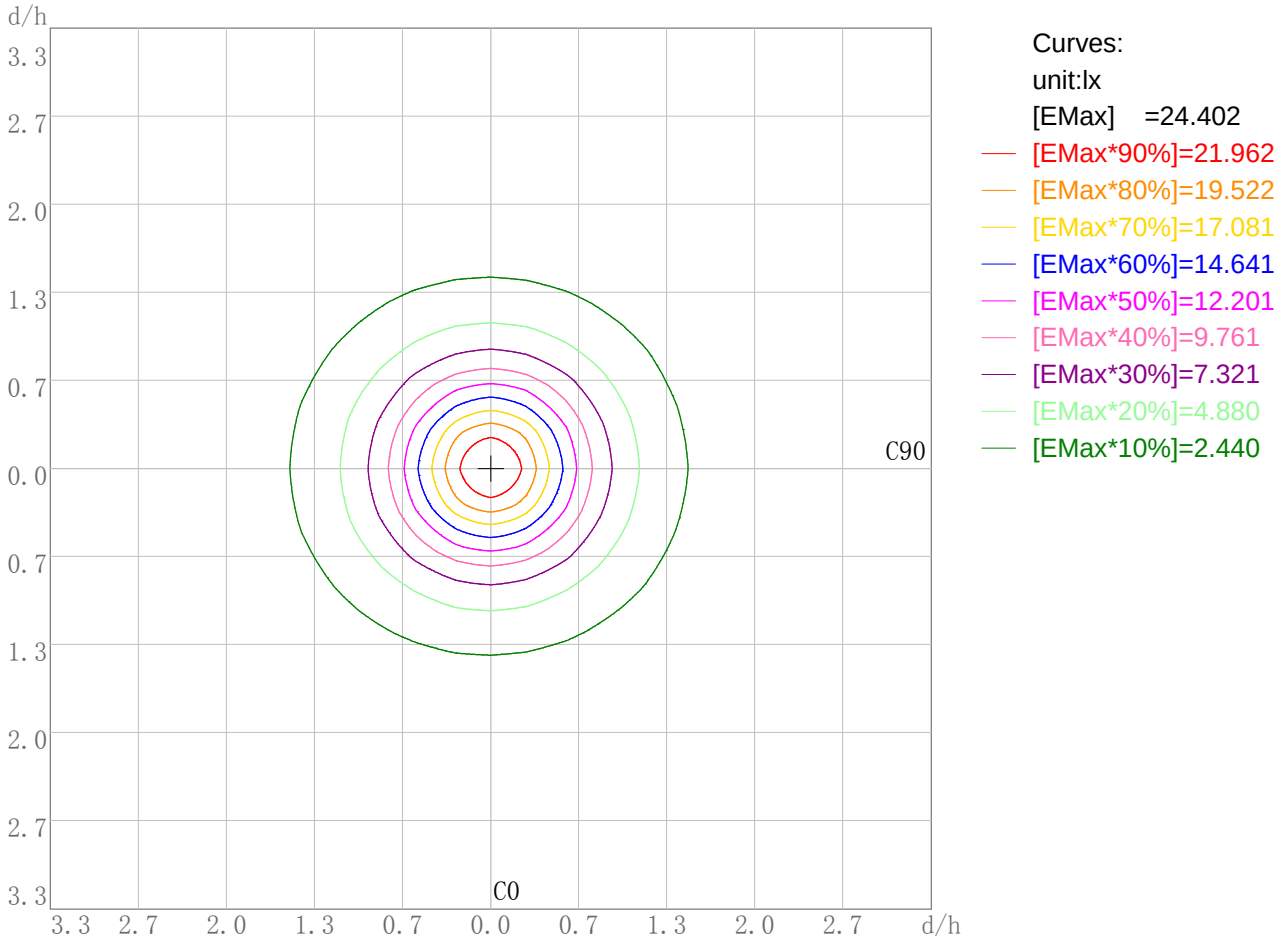
Maximum Light Intensity(cd): 219.62
Maximum Cand.@Angle: H=0.0°,V=0.0°

IES Flood Report
Photometric Filename: HCP-3355964.IES

Plane ISO-Illuminance Diagram

Lum.Name: HCP-3355964	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/7/2

Plane ISO-Illuminance Curve



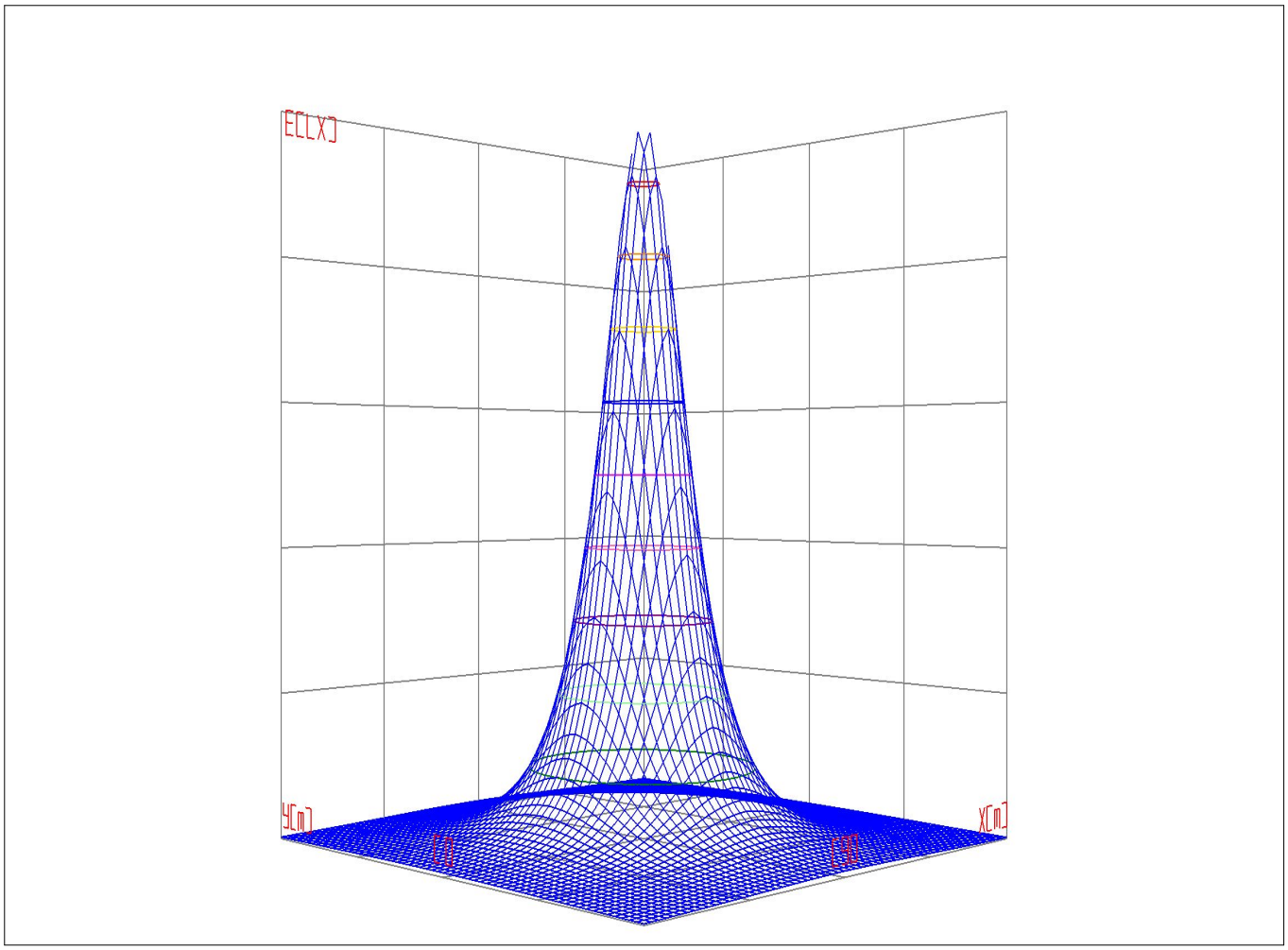
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 24.40
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

IES Flood Report
Photometric Filename: HCP-3355964.IES

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-3355964	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/7/2

3D Plane Illuminance Modal



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

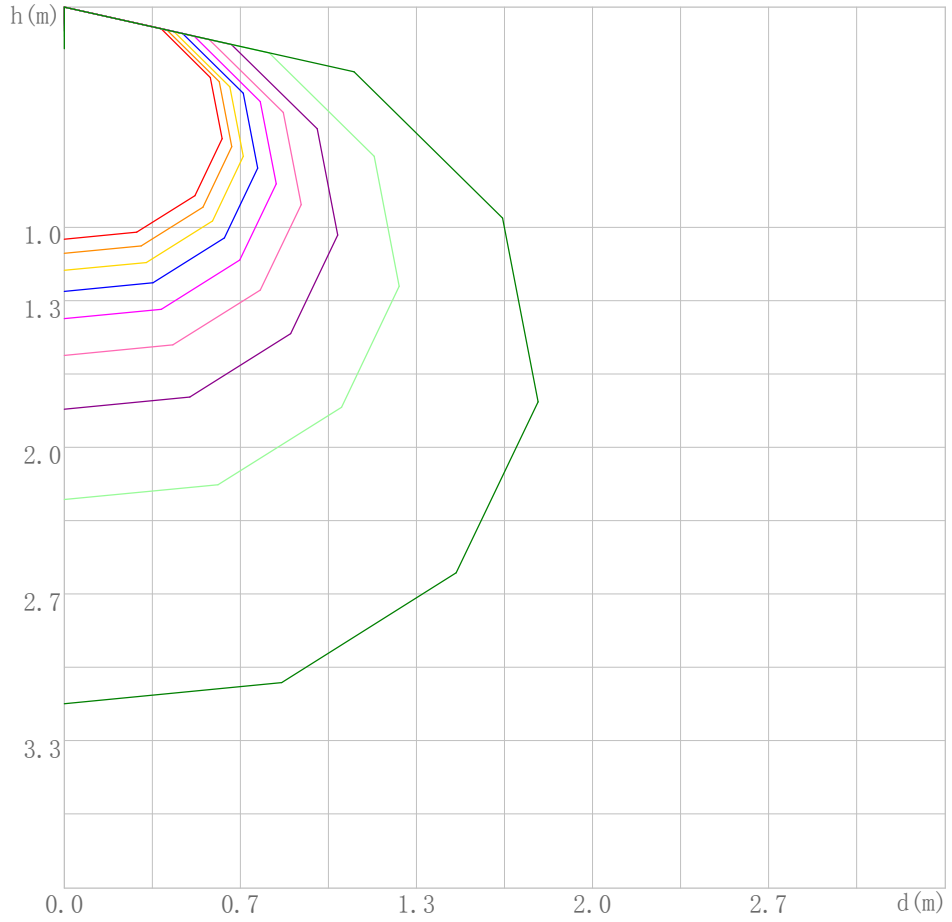
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

IES Flood Report
Photometric Filename: HCP-3355964.IES

Space ISO Illuminance Diagram

Lum.Name: HCP-3355964	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/7/2

Space ISO Illuminance Curve



Curves:
[Unit: lx]
[EMax] =210.395
[EMax*90%]=189.356
[EMax*80%]=168.316
[EMax*70%]=147.277
[EMax*60%]=126.237
[EMax*50%]=105.198
[EMax*40%]=84.158
[EMax*30%]=63.119
[EMax*20%]=42.079
[EMax*10%]=21.040

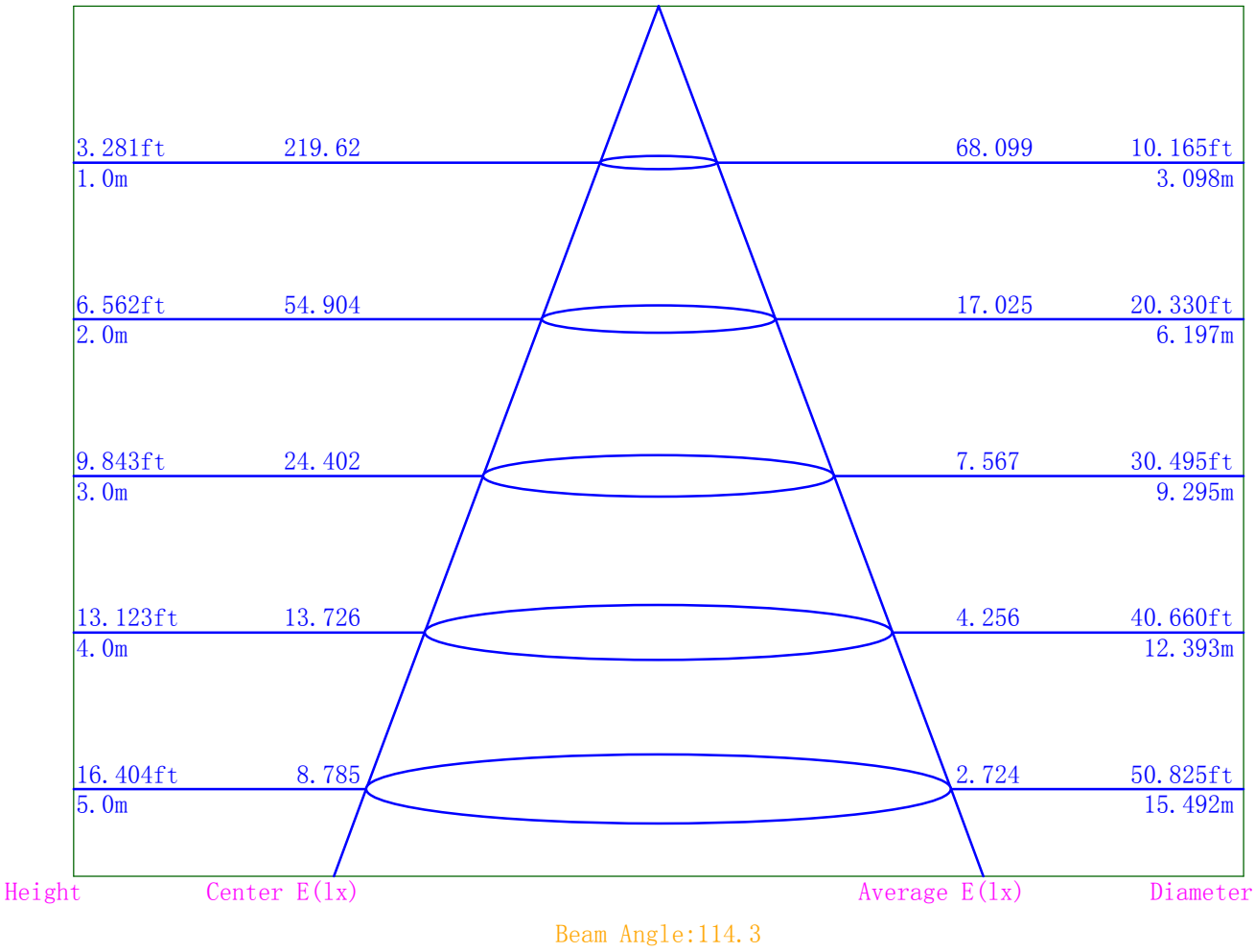
Space Plane Maximum Illuminance and @Angle:210.40lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:219.617cd,0eg

IES Flood Report
Photometric Filename: HCP-3355964.IES

Illuminance-Distance Diagram

Lum.Name: HCP-3355964	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/7/2

Illuminance-Distance Curve



Beam Angle:114.3

IES Flood Report
Photometric Filename: HCP-3355964.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	0.81	2.18	7.75	6.61	1.12	1.01	0.94	0.97	0.94	0.94	2.35	2.98
B-75.0	0.81	10.42	29.64	49.58	64.61	76.64	79.50	77.44	67.18	52.29	32.44	13.26
B-60.0	0.81	18.83	50.05	80.23	102.75	118.78	123.47	120.16	106.41	84.57	54.99	22.62
B-45.0	0.81	27.53	69.57	107.61	136.79	156.20	162.94	158.47	141.33	113.67	75.75	32.17
B-30.0	0.81	34.33	85.01	127.51	163.64	184.98	194.47	187.35	168.95	136.56	92.29	39.93
B-15.0	0.81	38.43	94.03	142.36	179.76	204.40	213.23	207.26	185.63	150.04	101.96	44.92
B0.0	0.81	39.36	96.14	145.99	184.65	210.40	219.62	213.72	191.20	154.24	104.60	46.27
B15.0	0.81	37.30	92.65	140.27	178.74	203.44	213.27	206.89	185.50	148.93	100.82	44.20
B30.0	0.81	32.31	82.27	125.12	161.02	183.17	192.82	186.46	167.46	133.98	90.32	38.71
B45.0	0.81	25.18	65.95	101.57	132.03	150.48	159.43	153.67	138.39	109.51	73.12	30.24
B60.0	0.81	16.89	45.96	71.89	95.59	108.91	116.48	111.27	100.00	77.37	50.68	20.03
B75.0	0.81	8.80	25.03	40.05	55.02	62.74	68.18	64.05	57.17	42.24	26.76	10.39
B90.0	0.81	4.09	9.51	14.84	19.11	22.62	23.77	22.80	19.07	14.48	9.48	3.91

V/H	β 90.0
B-90.0	0.76
B-75.0	0.76
B-60.0	0.76
B-45.0	0.76
B-30.0	0.76
B-15.0	0.76
B0.0	0.76
B15.0	0.76
B30.0	0.76
B45.0	0.76
B60.0	0.76
B75.0	0.76
B90.0	0.76