IES Flood Report
Photometric Filename: HCP-3355963.IES

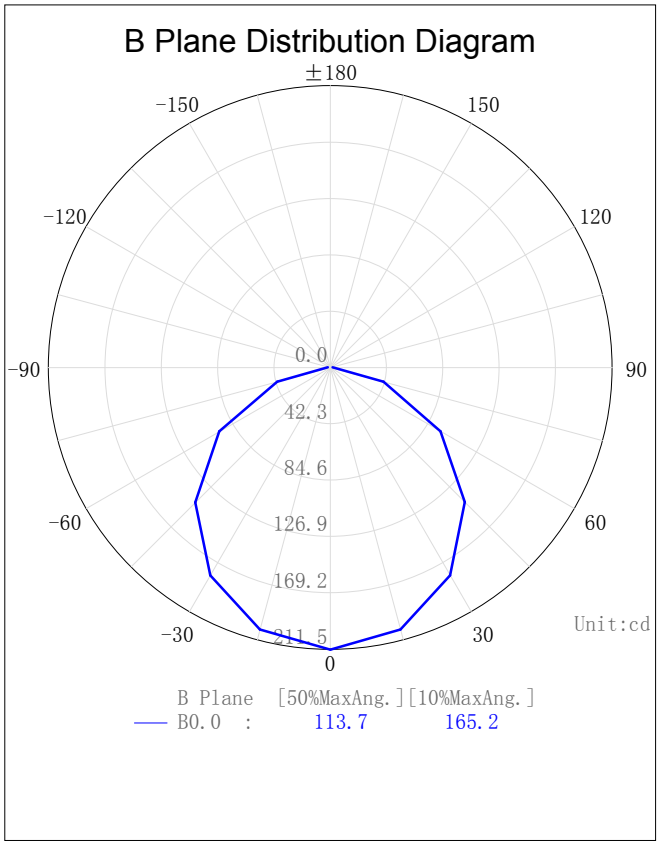
Flood Luminaire Photometric Data

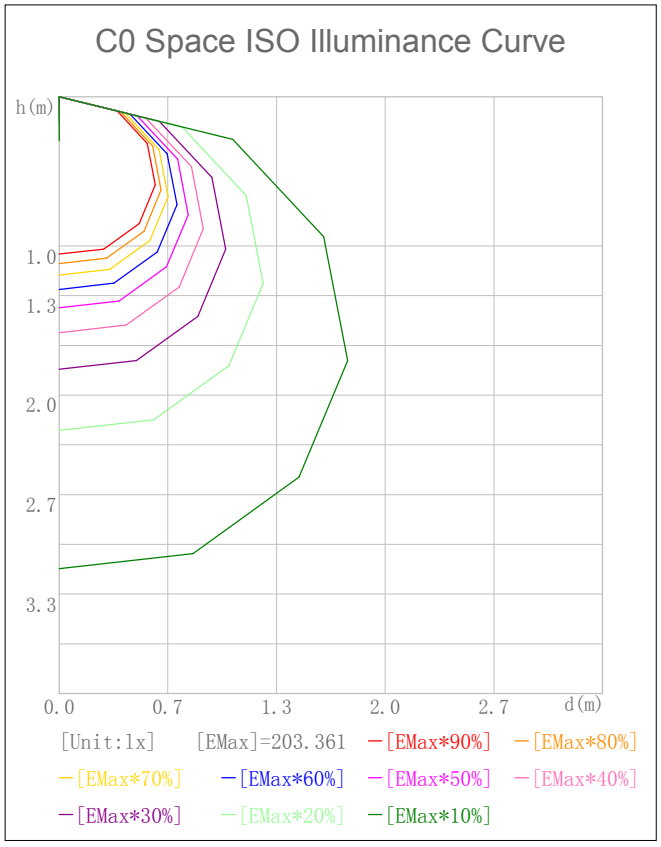
Description Information

Luminary Name: HCP-3355963		Lum. Catelog:	Test ID:
Lamp Name: 2110 3000K		Lamp Catelog:	Test Date: 2019/07/02
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): 671.250	Luminary Flux(lm): 653.872	Beam Lumens(lm): 480.71	
Rated Power(W):	Luminary Efficiency: 97.41%	Beam Efficiency(%): 73.52	
Rated Voltage(V):	Luminary EER(lm/W): 70.218	Field Lumens(lm): 641.93	
Tested Power(W): 9.312	Max.Candela(cd): 211.513	Field Efficiency(%): 98.17	
Lamps' Inside: 1	Max Cand@Ang.(°): B=0.0 β=0.0	ErP Φuse(120°): 490.249lm	
Tested Electrics(V,A,pf):24.0,0.388,0.000	Beam Angle(50%)(V,H): 123.0(°),113.7(°)	IRF(%): 105.945	
Lamp Size(W*L*H):0.010m*1.000m*0.010m	Field Angle(10%)(V,H): 175.0(°),165.2(°)		





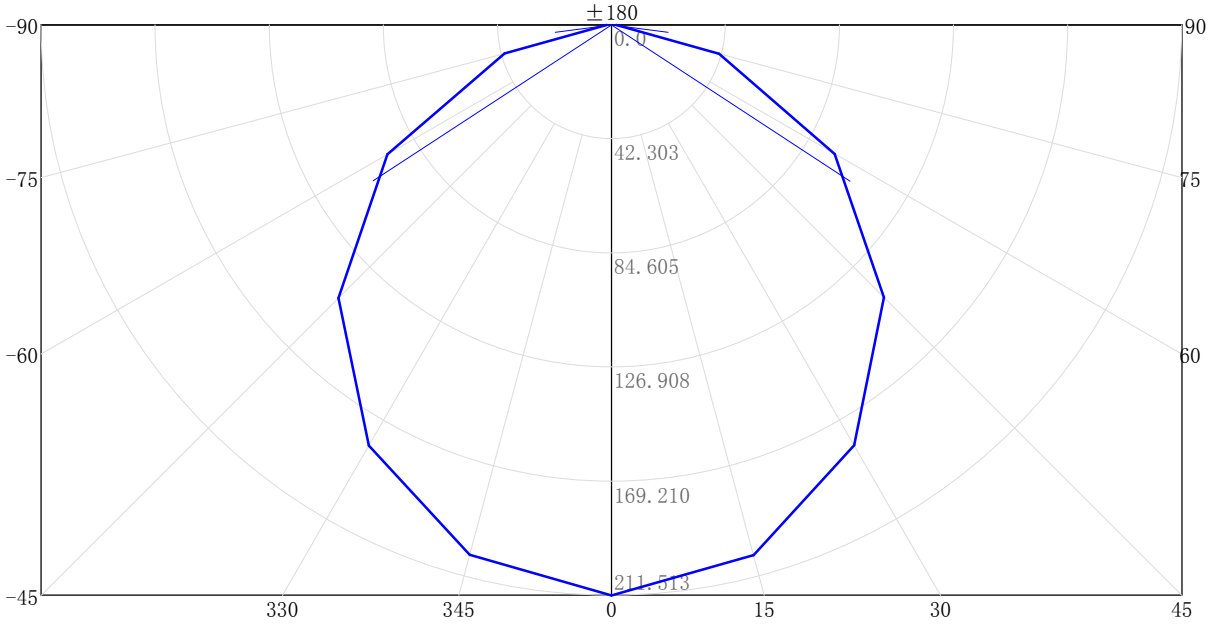
HAVIT LIGHTING
143 BEAUCHAMP RD., MATRAVILLE,NSW 2036 AUSTRALIA

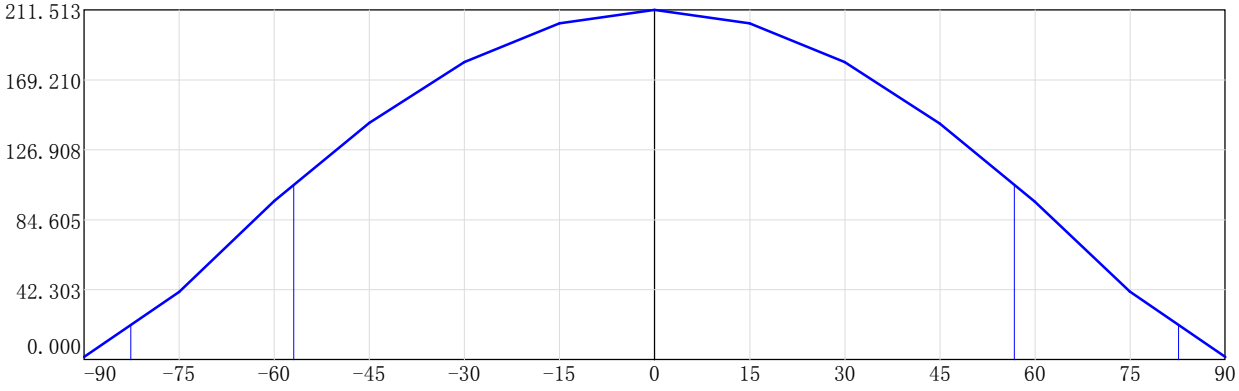
IES Flood Report
Photometric Filename: HCP-3355963.IES

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-3355963	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/02

B Plane Distribution Diagram





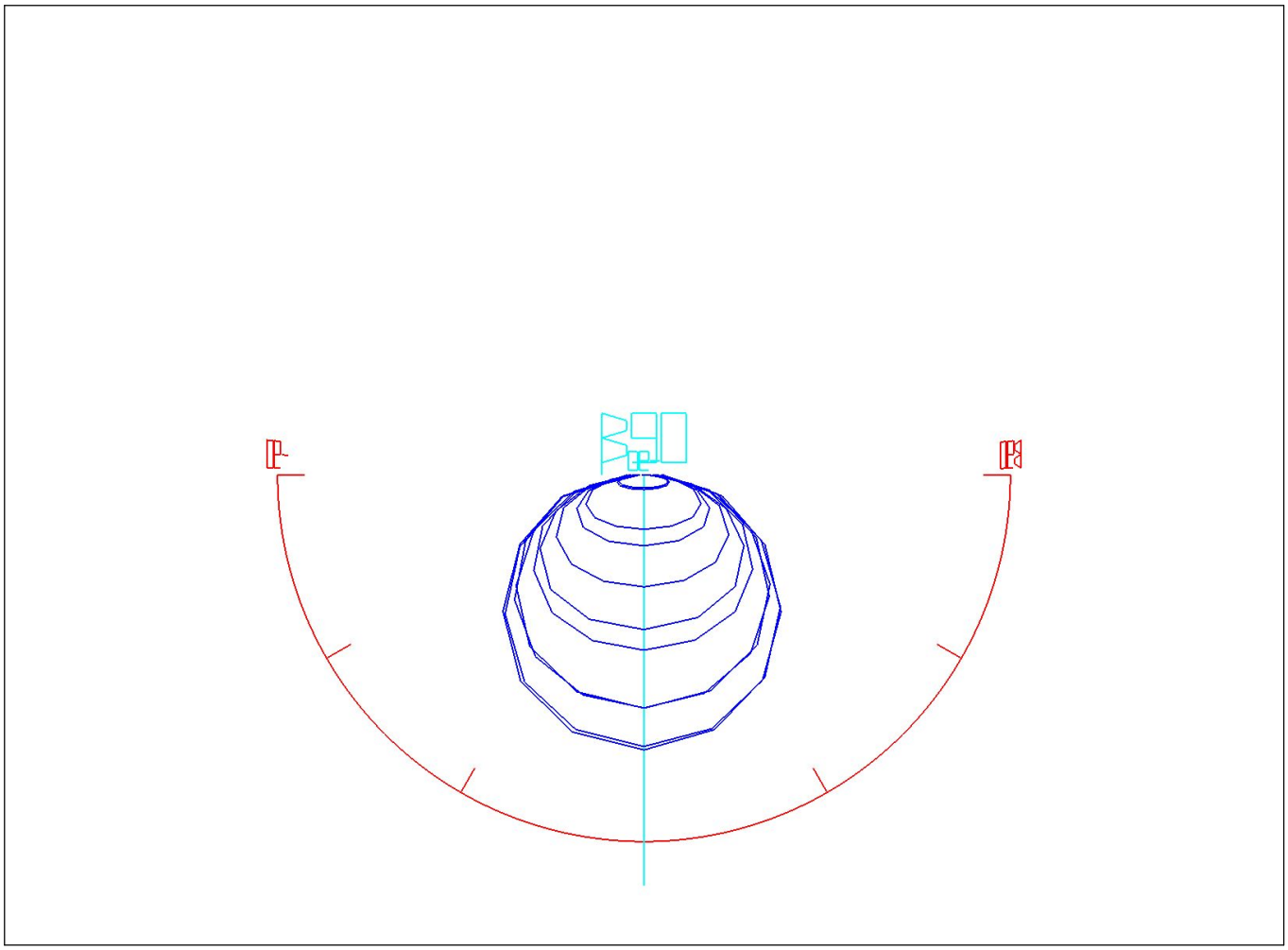
	B Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
	B0.0 :	113.7	165.2	

IES Flood Report
Photometric Filename: HCP-3355963.IES

3D Light Intensity Distribution Modal

Lum.Name: HCP-3355963	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/02

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-3355963.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	0.04	0.29	0.80	1.44	2.09	2.53	2.62	2.27	1.61	0.89	0.32	0.04	
B-75.0	0.08	0.69	2.02	3.66	5.14	5.98	5.97	5.11	3.63	1.99	0.68	0.08	
B-60.0	0.12	1.08	3.10	5.51	7.64	8.85	8.85	7.61	5.48	3.07	1.07	0.11	
B-45.0	0.15	1.43	4.02	7.08	9.76	11.31	11.31	9.75	7.06	4.00	1.42	0.15	
B-30.0	0.18	1.66	4.64	8.15	11.23	13.03	13.03	11.23	8.13	4.62	1.65	0.18	
B-15.0	0.19	1.77	4.92	8.65	11.94	13.86	13.86	11.94	8.64	4.90	1.76	0.19	
B0.0	0.19	1.76	4.89	8.62	11.90	13.82	13.82	11.90	8.61	4.88	1.76	0.19	
B15.0	0.17	1.64	4.58	8.06	11.12	12.91	12.91	11.12	8.05	4.57	1.64	0.17	
B30.0	0.14	1.39	3.93	6.95	9.58	11.12	11.11	9.57	6.93	3.91	1.39	0.15	
B45.0	0.11	1.04	2.98	5.34	7.40	8.59	8.58	7.38	5.31	2.96	1.04	0.11	
B60.0	0.07	0.64	1.88	3.45	4.85	5.66	5.66	4.83	3.42	1.86	0.64	0.07	
B75.0	0.03	0.28	0.83	1.54	2.18	2.54	2.50	2.06	1.40	0.72	0.25	0.03	
B90.0													
Total	1.46	13.67	38.58	68.45	94.82	110.21	110.22	94.75	68.27	38.36	13.62	1.47	

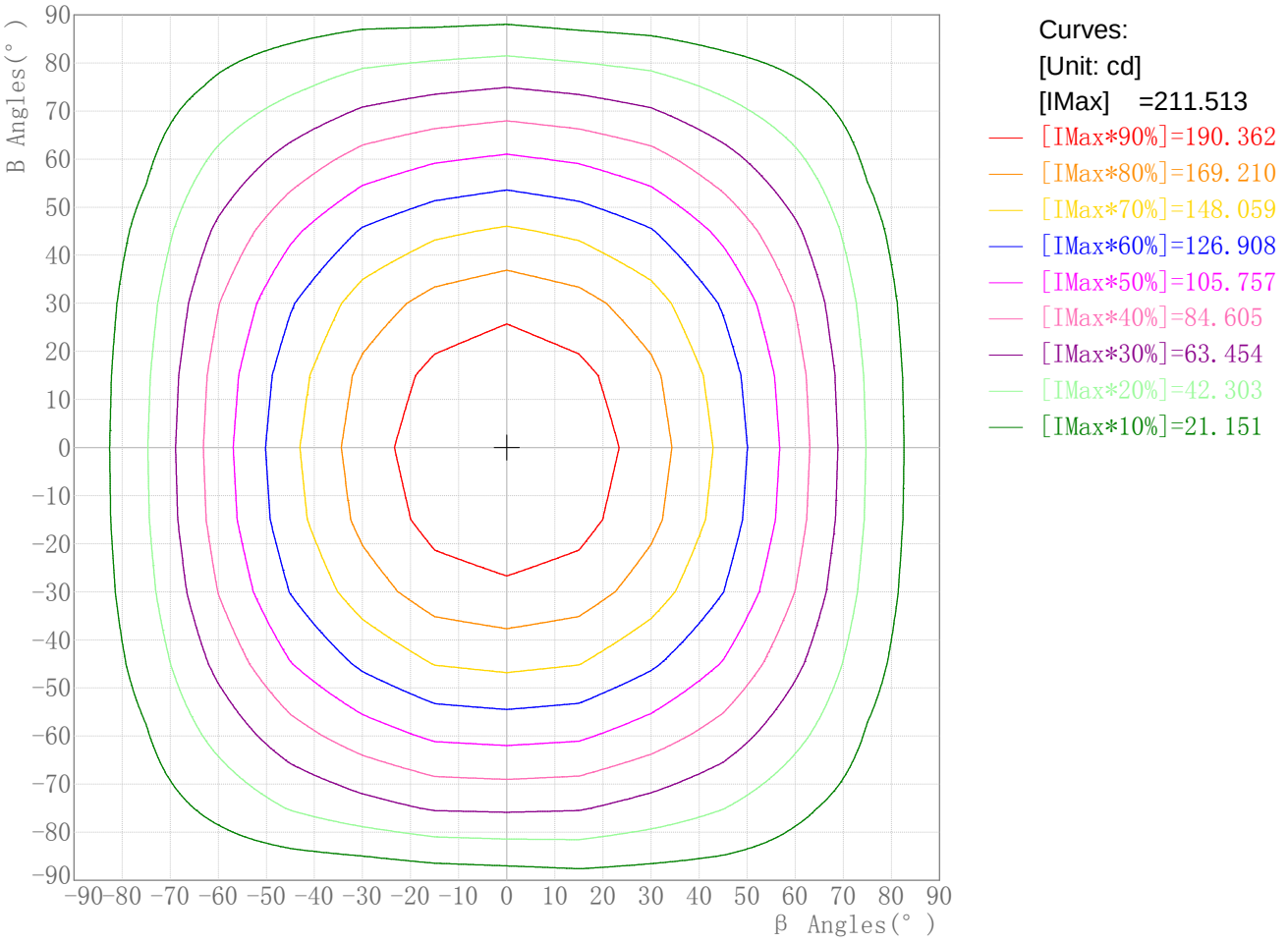
	β 90.0	Total
B-90.0		14.93
B-75.0		35.02
B-60.0		52.51
B-45.0		67.43
B-30.0		77.74
B-15.0		82.60
B0.0		82.33
B15.0		76.93
B30.0		66.17
B45.0		50.83
B60.0		33.02
B75.0		14.36
B90.0		
Total		653.87

IES Flood Report
Photometric Filename: HCP-3355963.IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-3355963	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/02

ISO Lighting Intensity Curve



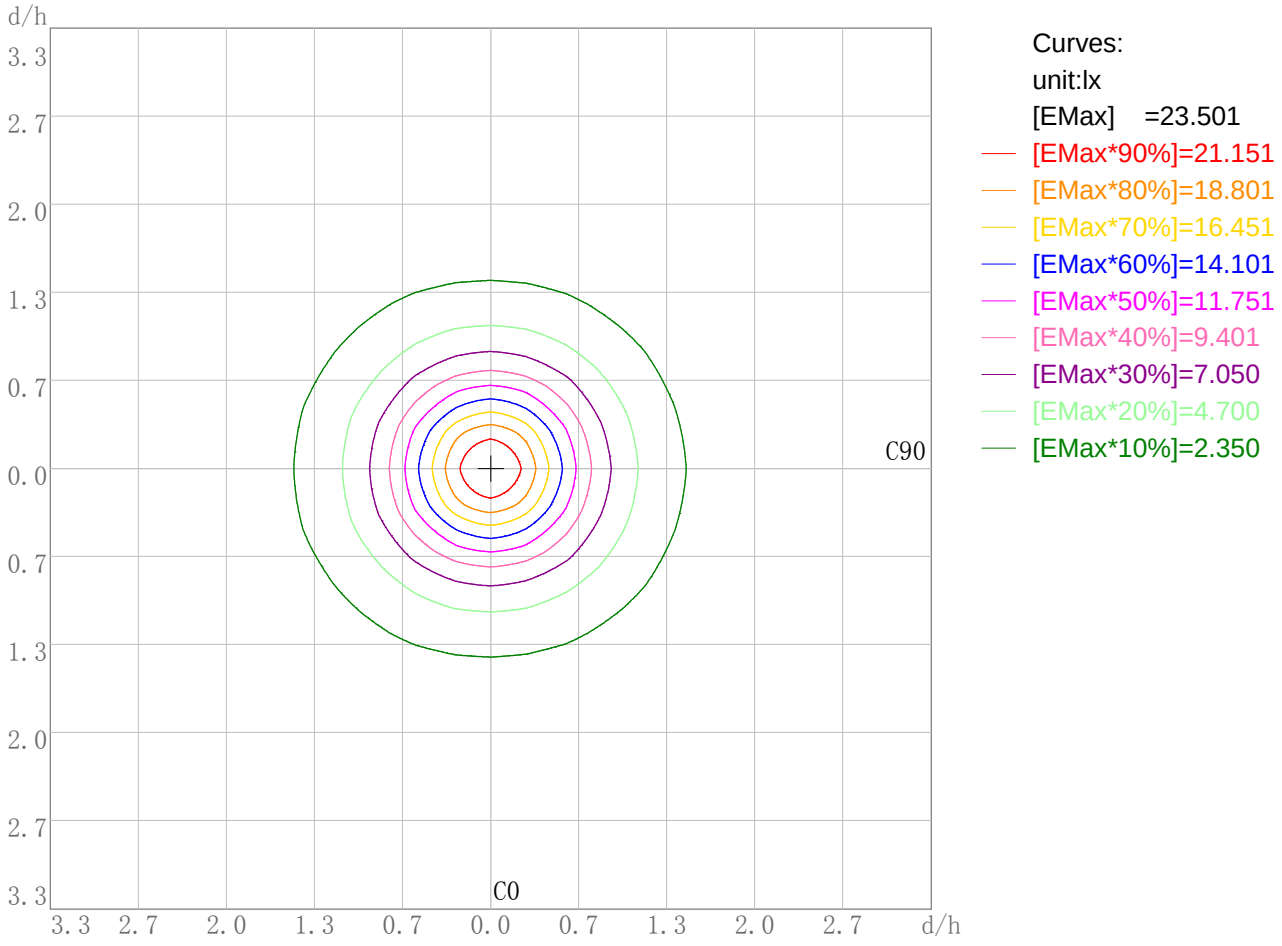
Maximum Light Intensity(cd): 211.51
Maximum Cand.@Angle: H=0.0°,V=0.0°

IES Flood Report
Photometric Filename: HCP-3355963.IES

Plane ISO-Illuminance Diagram

Lum.Name: HCP-3355963	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/02

Plane ISO-Illuminance Curve



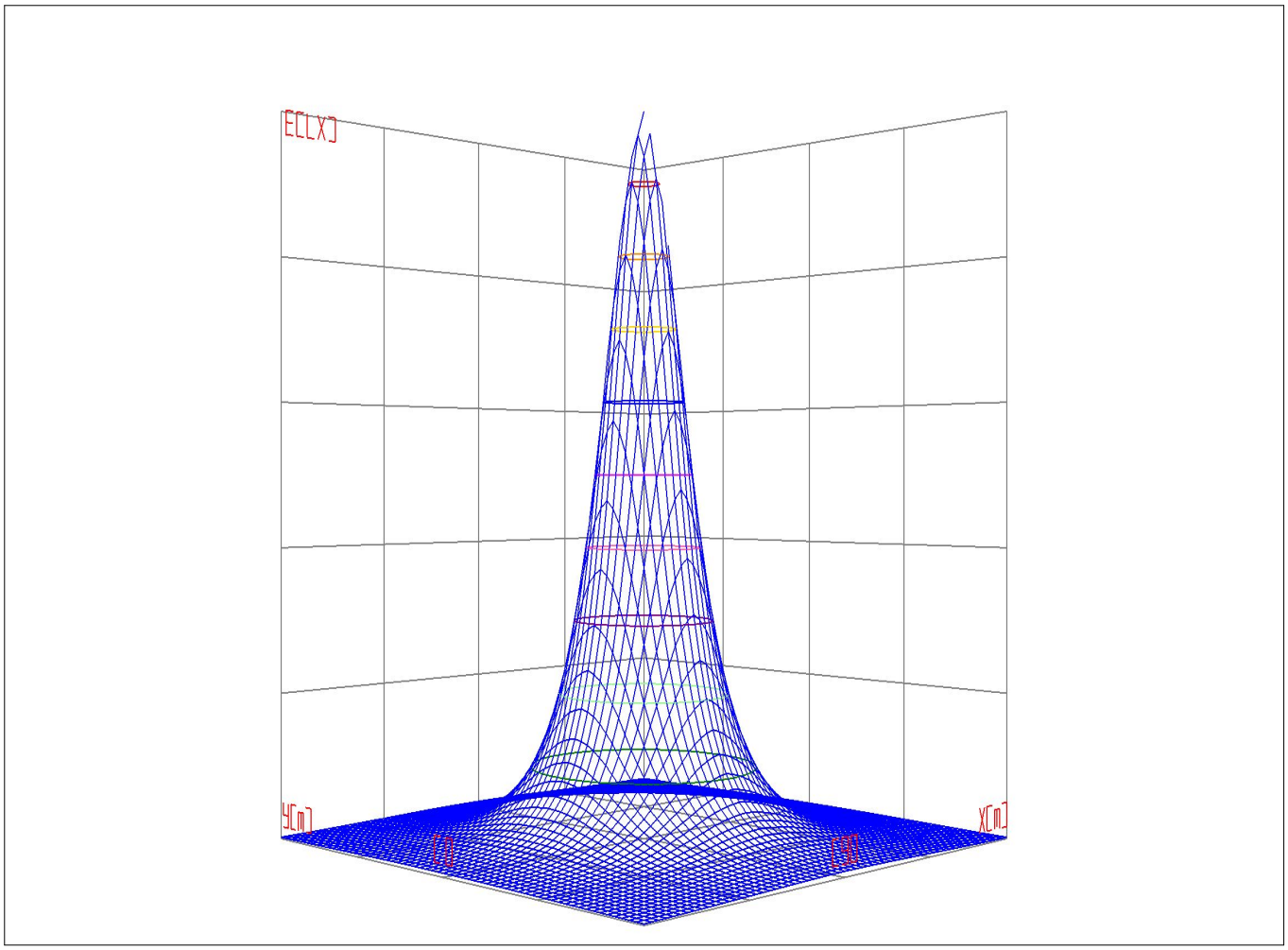
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 23.50
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

IES Flood Report
Photometric Filename: HCP-3355963.IES

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-3355963	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/02

3D Plane Illuminance Modal



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

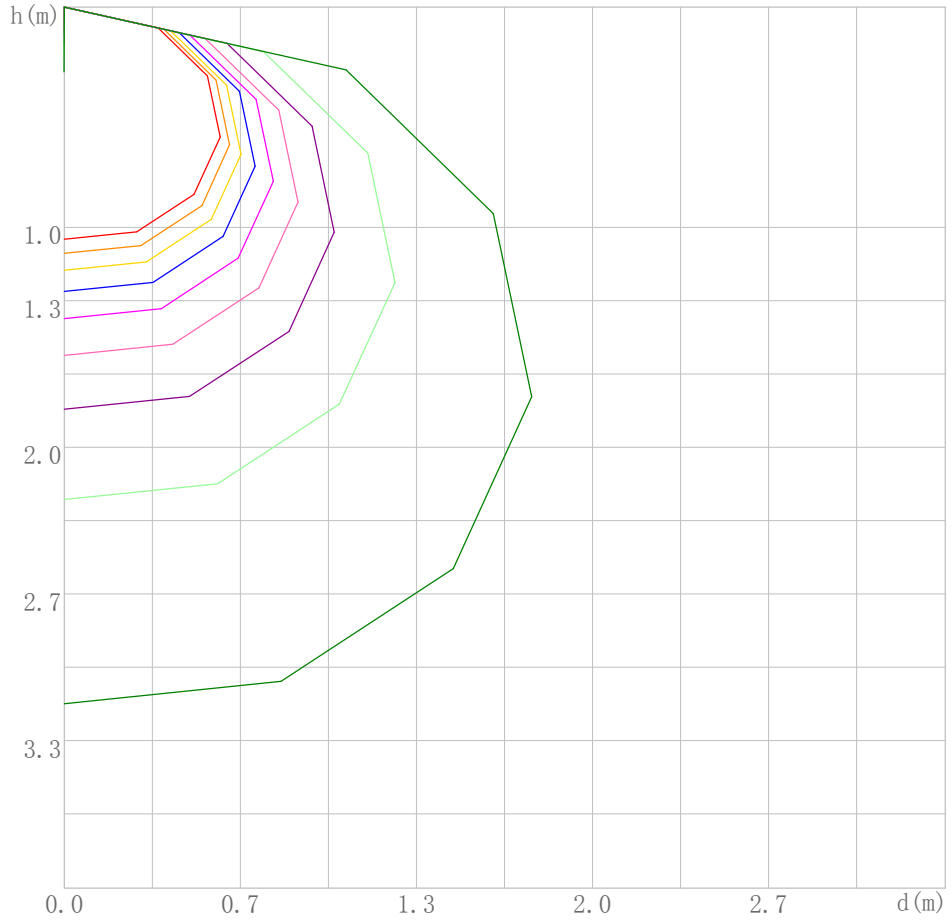
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

IES Flood Report
Photometric Filename: HCP-3355963.IES

Space ISO Illuminance Diagram

Lum.Name: HCP-3355963	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/02

Space ISO Illuminance Curve



Curves:
[Unit: lx]
[EMax] =203.361
[EMax*90%]=183.025
[EMax*80%]=162.689
[EMax*70%]=142.353
[EMax*60%]=122.017
[EMax*50%]=101.680
[EMax*40%]=81.344
[EMax*30%]=61.008
[EMax*20%]=40.672
[EMax*10%]=20.336

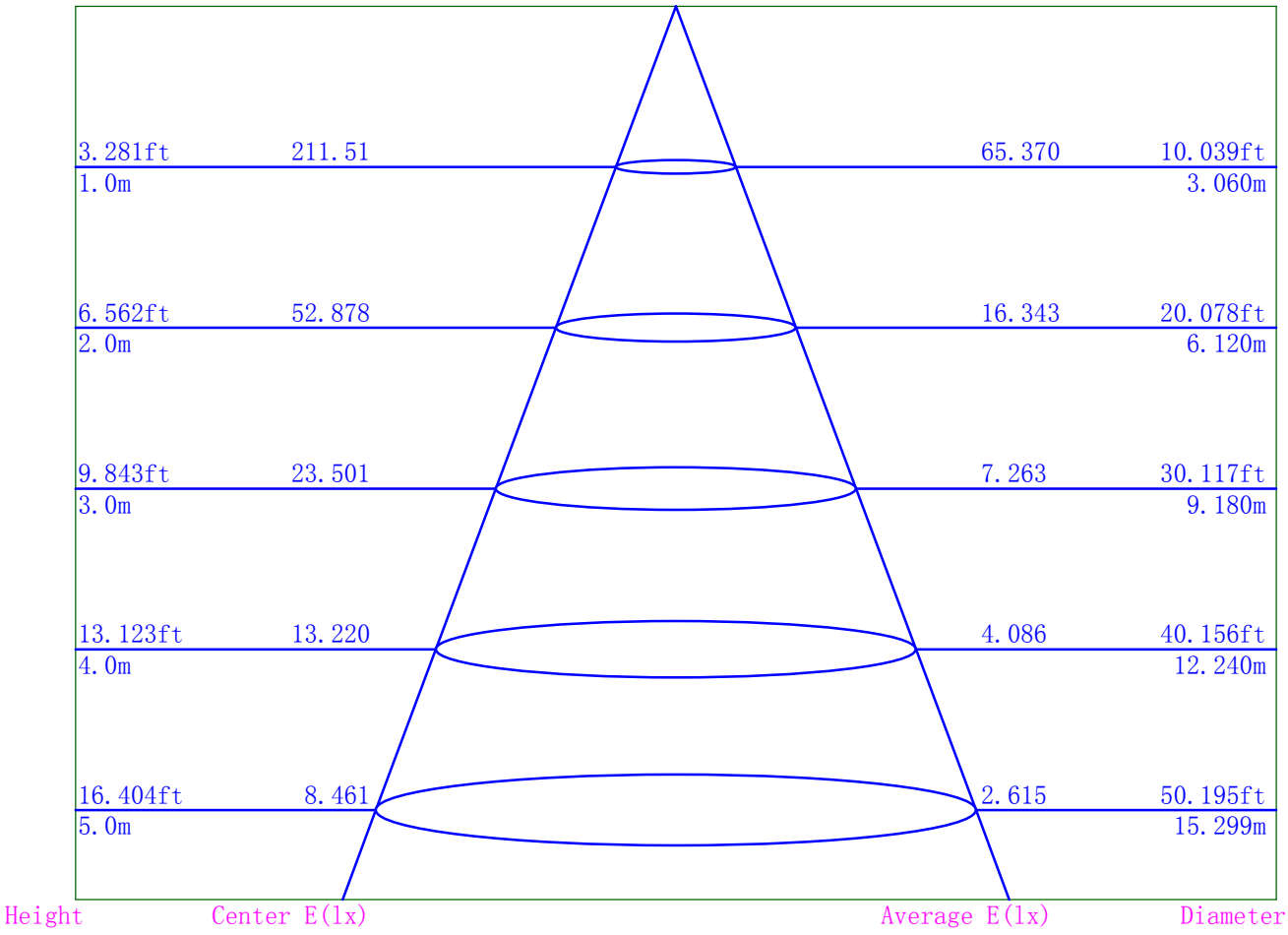
Space Plane Maximum Illuminance and @Angle:203.36lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:211.513cd,0eg

IES Flood Report
Photometric Filename: HCP-3355963.IES

Illuminance-Distance Diagram

Lum.Name: HCP-3355963	Lum.Catelog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/07/02

Illuminance-Distance Curve



Beam Angle:113.7

IES Flood Report
Photometric Filename: HCP-3355963.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	1.72	3.08	3.63	3.52	3.68	7.44	9.82	12.80	11.01	9.61	7.44	4.74
B-75.0	1.72	10.85	26.44	43.48	55.64	65.46	66.69	65.18	55.05	42.82	25.71	10.68
B-60.0	1.72	19.69	48.50	75.84	95.17	109.14	111.70	108.89	94.59	75.24	47.63	19.46
B-45.0	1.72	28.65	68.94	105.00	130.67	148.74	153.02	148.63	130.24	104.51	68.22	28.41
B-30.0	1.72	35.65	85.00	127.63	158.82	179.96	186.16	179.93	158.60	127.20	84.36	35.60
B-15.0	1.72	39.89	93.64	139.80	174.98	197.95	205.30	198.00	174.80	139.42	92.99	39.99
B0.0	1.72	41.02	95.96	143.17	180.04	203.36	211.51	203.47	179.99	142.90	95.58	41.28
B15.0	1.72	39.13	92.88	138.32	174.22	196.15	204.56	196.24	174.16	138.14	92.65	39.59
B30.0	1.72	34.36	83.85	124.92	157.51	176.58	184.70	176.53	157.26	124.64	83.57	34.84
B45.0	1.72	27.01	67.57	101.29	128.92	144.06	151.00	143.79	128.38	100.77	67.00	27.36
B60.0	1.72	17.93	46.46	71.13	92.41	103.38	108.85	103.13	91.94	70.73	46.01	18.22
B75.0	1.72	9.35	24.34	38.37	52.30	58.95	63.18	58.83	51.93	38.07	24.06	9.74
B90.0	1.72	2.26	6.99	9.78	13.39	13.28	14.78	10.90	8.64	4.34	2.64	1.64

V/H	β 90.0
B-90.0	1.75
B-75.0	1.75
B-60.0	1.75
B-45.0	1.75
B-30.0	1.75
B-15.0	1.75
B0.0	1.75
B15.0	1.75
B30.0	1.75
B45.0	1.75
B60.0	1.75
B75.0	1.75
B90.0	1.75