IES Flood Report
Photometric Filename: HCP-3326194.IES

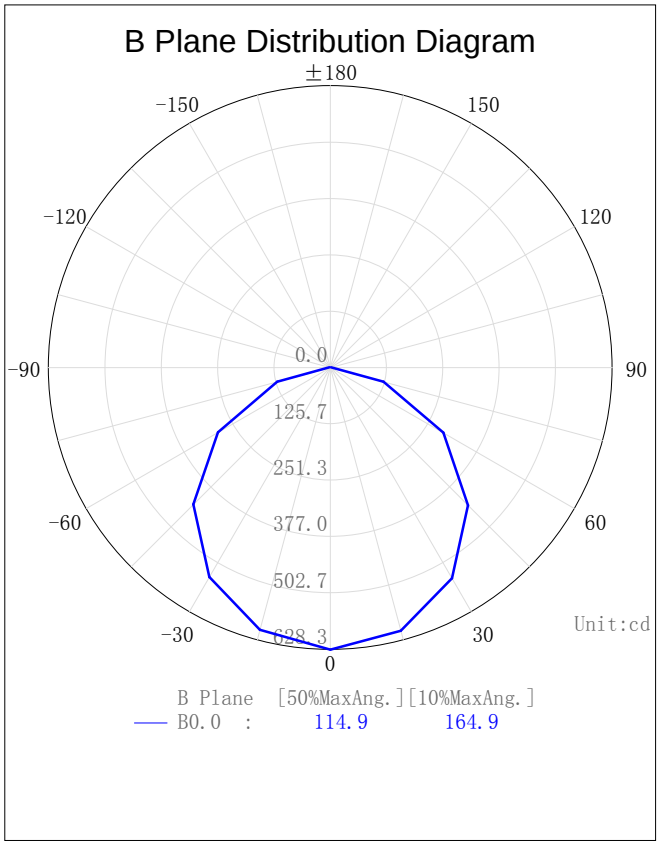
Flood Luminaire Photometric Data

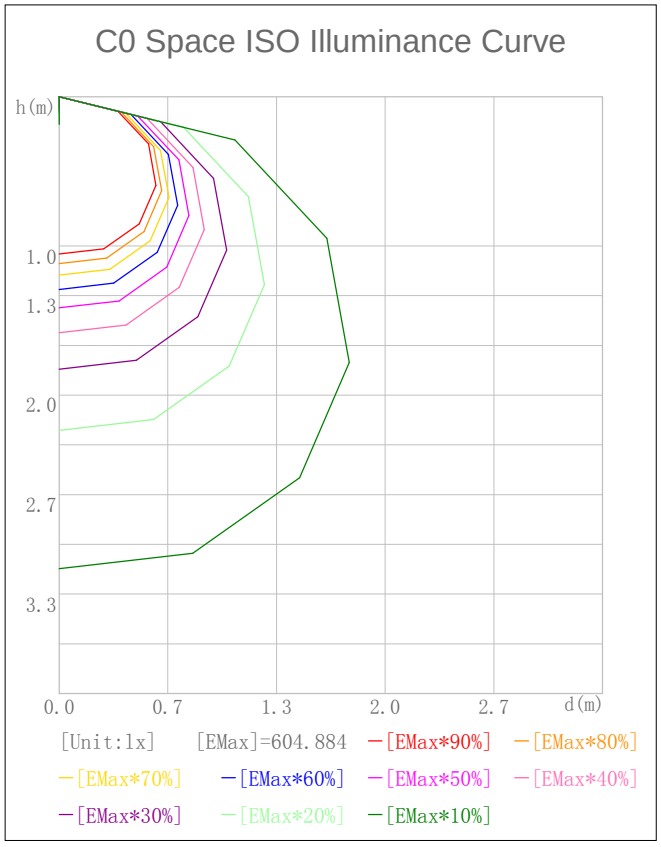
Description Information

Luminary Name: HCP-3326194		Lum. Catelog:	Test ID:
Lamp Name: 2110 4000K		Lamp Catelog:	Test Date: 2019/05/21
Manufacture: HAVIT COMMERCIAL		Shld.Ang(°):	Test Machine:GON-2000
Test Lab:		Frequency(Hz):	Lamp CCT(K): Ra:
Lum.Size(W*L*H):0.006m*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):	2175.500	Luminary Flux(lm):	1837.664	Beam Lumens(lm):	1337.65
Rated Power(W):		Luminary Efficiency:	84.47%	Beam Efficiency(%):	72.79
Rated Voltage(V):		Luminary EER(lm/W):	94.725	Field Lumens(lm):	1797.51
Tested Power(W):	19.400	Max.Candela(cd):	628.314	Field Efficiency(%):	97.82
Lamps' Inside:	1	Max Cand@Ang.(°):	B=0.0 β=0.0	ErP Φuse(120°):	1430.789lm
Tested Electrics(V,A,pf):24.0,0.81,0.000		Beam Angle(50%)(V,H):	114.8(°),114.9(°)	IRF(%):	107.907
Lamp Size(W*L*H):0.006m*0.100m*0.010m		Field Angle(10%)(V,H):	167.2(°),164.9(°)		



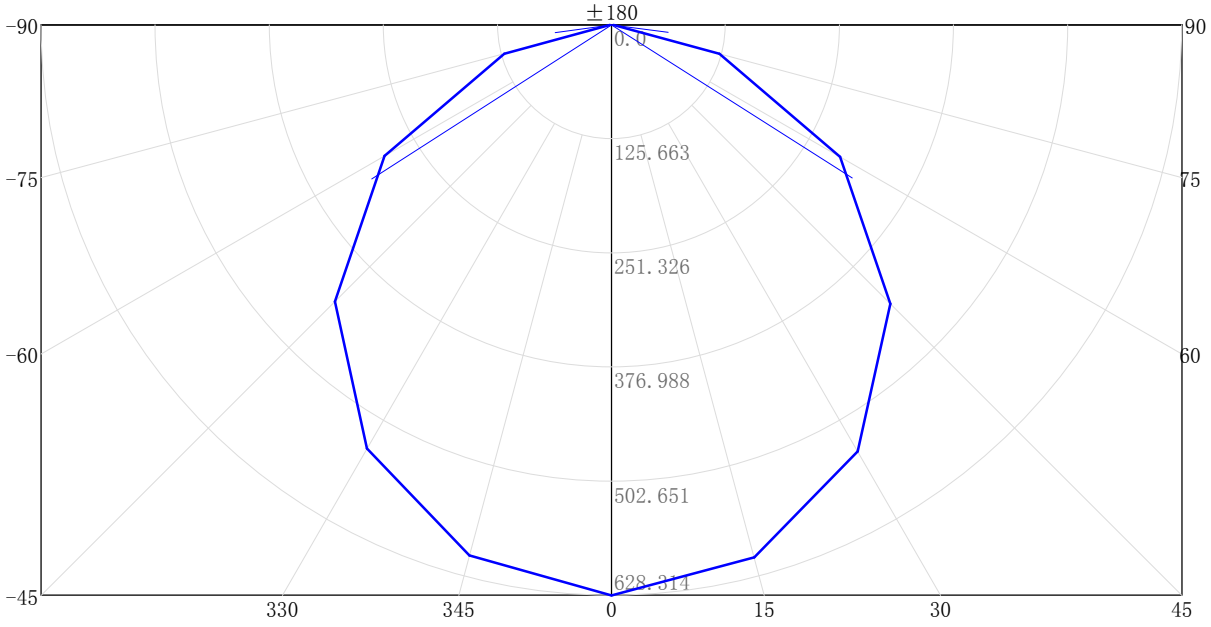


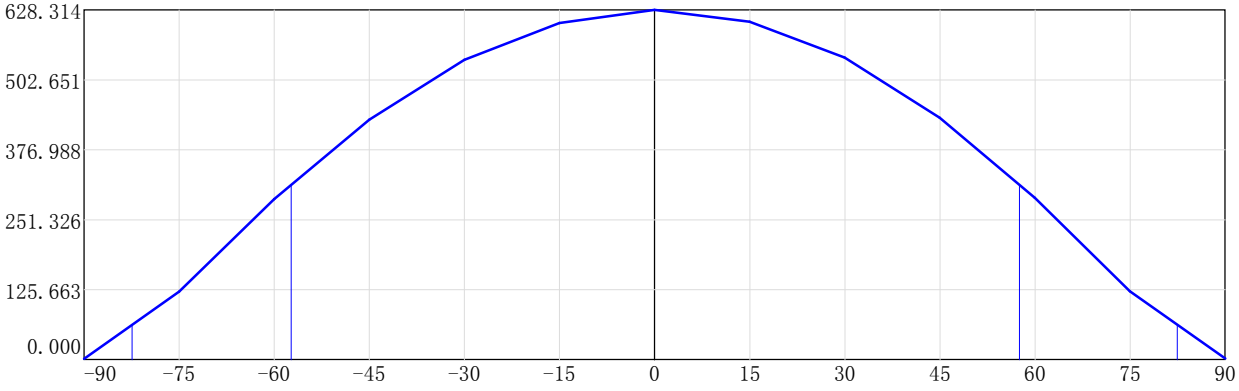
IES Flood Report
Photometric Filename: HCP-3326194.IES

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-3326194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

B Plane Distribution Diagram





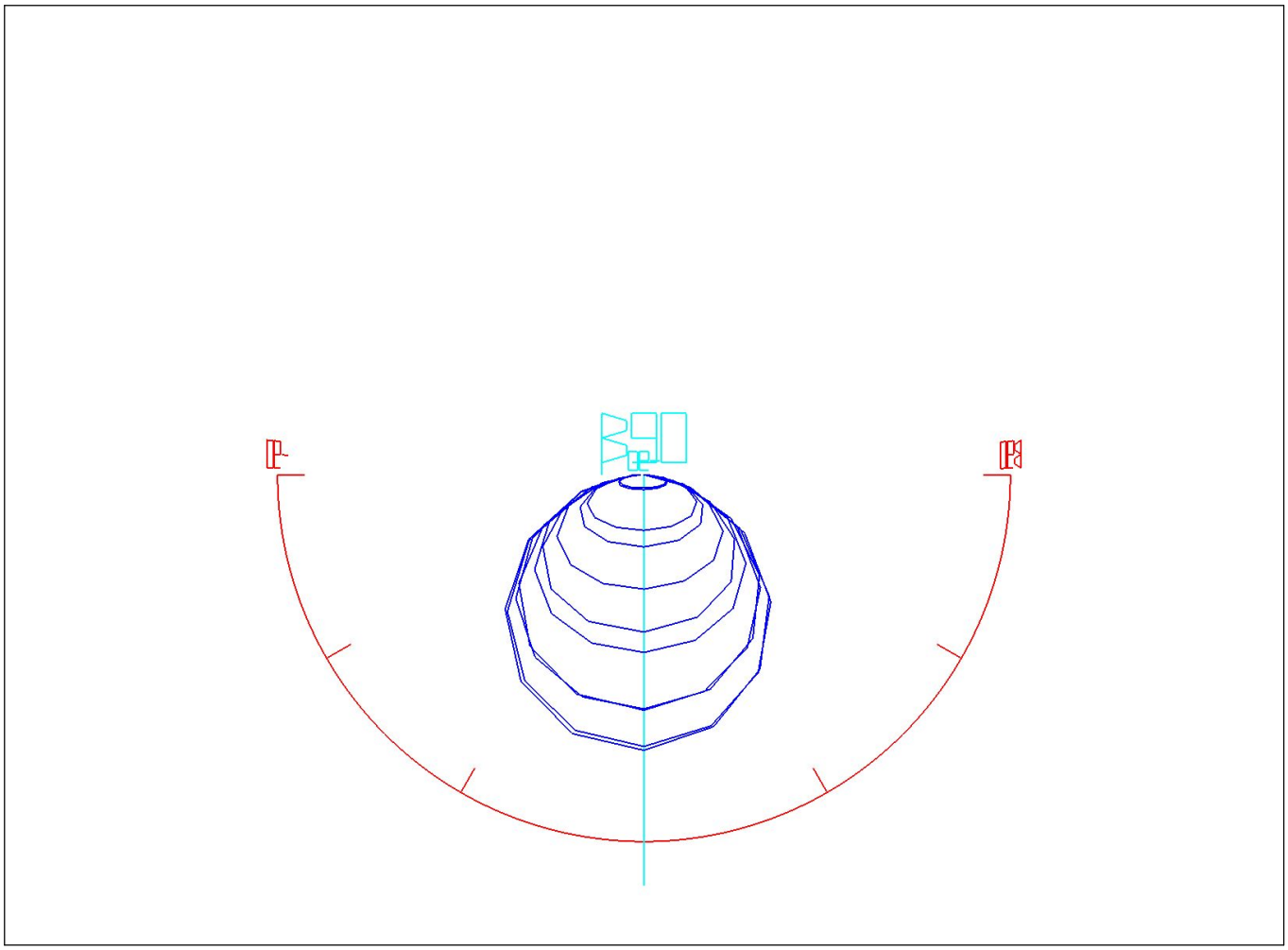
	B Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
	B0.0 :	114.9	164.9	

IES Flood Report
Photometric Filename: HCP-3326194.IES

3D Light Intensity Distribution Modal

Lum.Name: HCP-3326194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

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-3326194.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	0.08	0.69	2.01	3.61	5.08	5.92	5.95	5.13	3.68	2.07	0.74	0.09	
B-75.0	0.18	1.74	5.15	9.35	13.17	15.38	15.44	13.30	9.50	5.26	1.80	0.19	
B-60.0	0.30	2.99	8.68	15.60	21.73	25.28	25.35	21.90	15.78	8.81	3.05	0.31	
B-45.0	0.42	4.11	11.71	20.78	28.73	33.32	33.40	28.92	20.98	11.84	4.16	0.43	
B-30.0	0.51	4.91	13.80	24.31	33.47	38.76	38.84	33.66	24.51	13.92	4.95	0.51	
B-15.0	0.55	5.29	14.77	25.95	35.66	41.27	41.35	35.85	26.15	14.89	5.33	0.55	
B0.0	0.54	5.24	14.61	25.68	35.28	40.83	40.91	35.46	25.87	14.72	5.28	0.54	
B15.0	0.48	4.74	13.30	23.49	32.32	37.44	37.51	32.50	23.67	13.42	4.79	0.49	
B30.0	0.39	3.85	10.93	19.47	26.89	31.21	31.28	27.05	19.64	11.04	3.90	0.40	
B45.0	0.27	2.68	7.70	13.91	19.36	22.56	22.62	19.50	14.07	7.81	2.74	0.28	
B60.0	0.15	1.44	4.15	7.59	10.65	12.47	12.52	10.77	7.73	4.25	1.50	0.16	
B75.0	0.05	0.44	1.23	2.24	3.14	3.69	3.71	3.20	2.31	1.28	0.47	0.06	
B90.0													
Total	3.92	38.12	108.02	192.00	265.48	308.14	308.87	267.24	193.88	109.29	38.71	4.01	

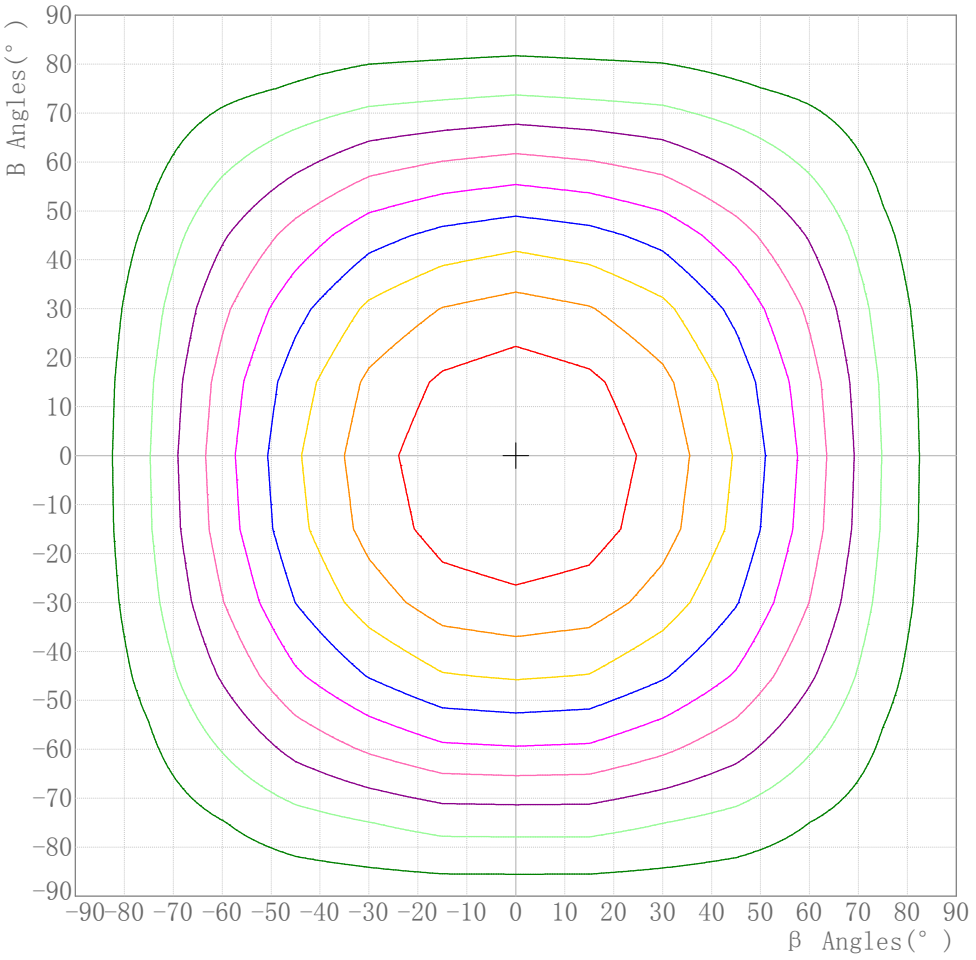
	β 90.0	Total
B-90.0		35.04
B-75.0		90.44
B-60.0		149.78
B-45.0		198.80
B-30.0		232.13
B-15.0		247.62
B0.0		244.94
B15.0		224.16
B30.0		186.06
B45.0		133.48
B60.0		73.38
B75.0		21.83
B90.0		
Total		1837.66

IES Flood Report
Photometric Filename: HCP-3326194.IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-3326194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

ISO Lighting Intensity Curve



Curves:
[Unit: cd]
[IMax] =628.314
[IMax*90%]=565.483
[IMax*80%]=502.651
[IMax*70%]=439.820
[IMax*60%]=376.988
[IMax*50%]=314.157
[IMax*40%]=251.326
[IMax*30%]=188.494
[IMax*20%]=125.663
[IMax*10%]=62.831

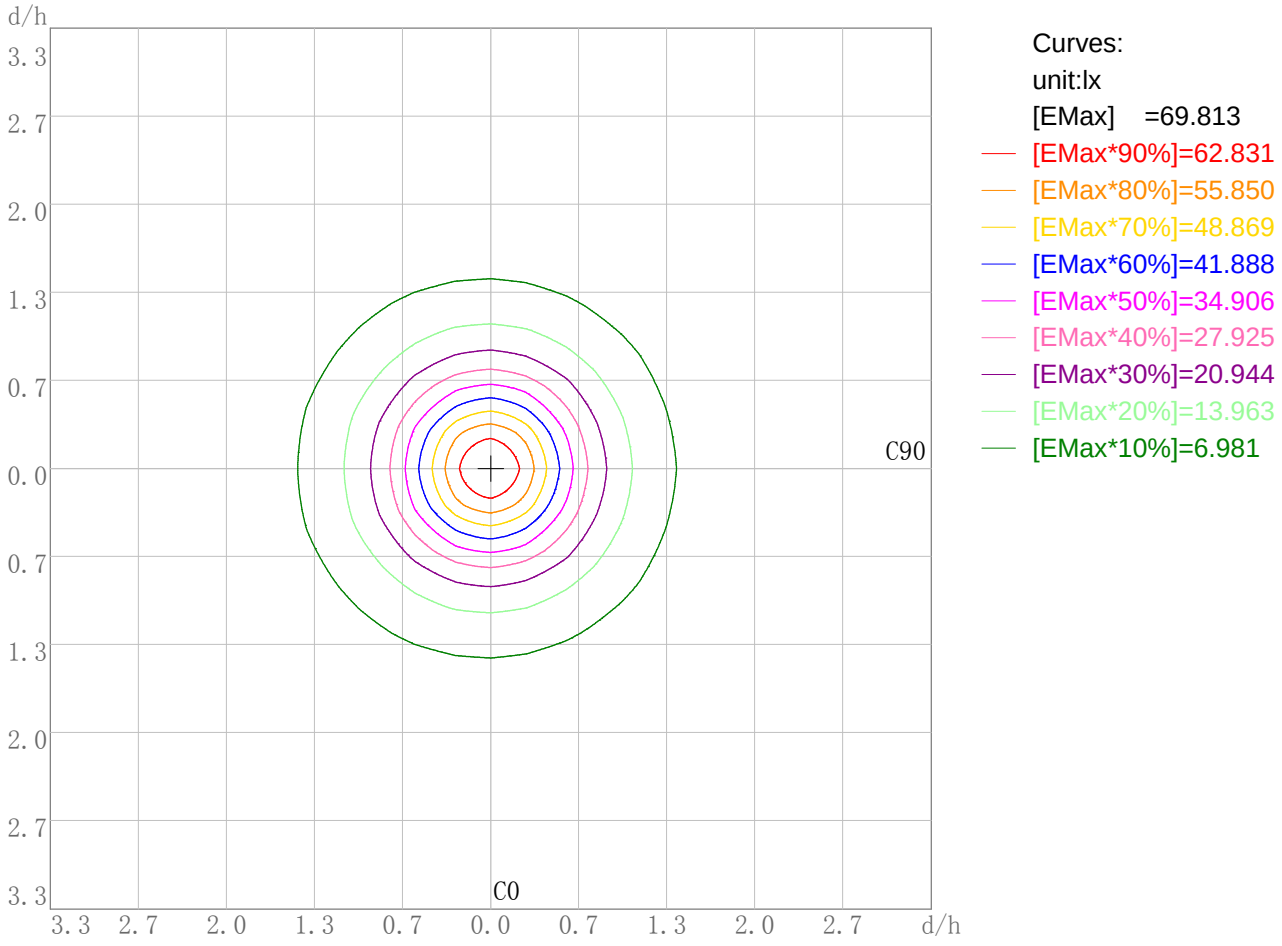
Maximum Light Intensity(cd): 628.31
Maximum Cand.@Angle: H=0.0°,V=0.0°

IES Flood Report
Photometric Filename: HCP-3326194.IES

Plane ISO-Illuminance Diagram

Lum.Name: HCP-3326194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

Plane ISO-Illuminance Curve



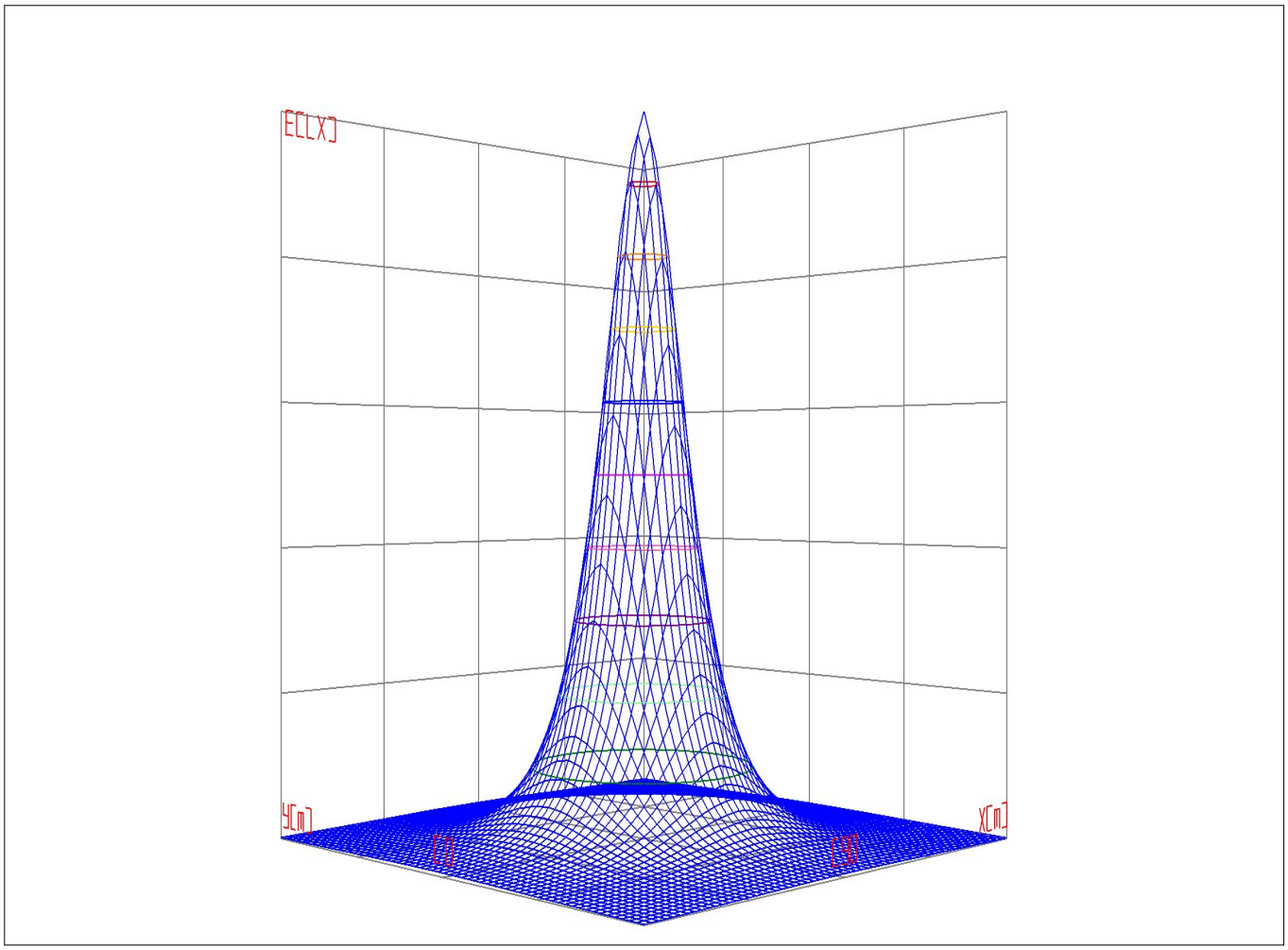
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 69.81
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

IES Flood Report
Photometric Filename: HCP-3326194.IES

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-3326194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

3D Plane Illuminance Modal



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

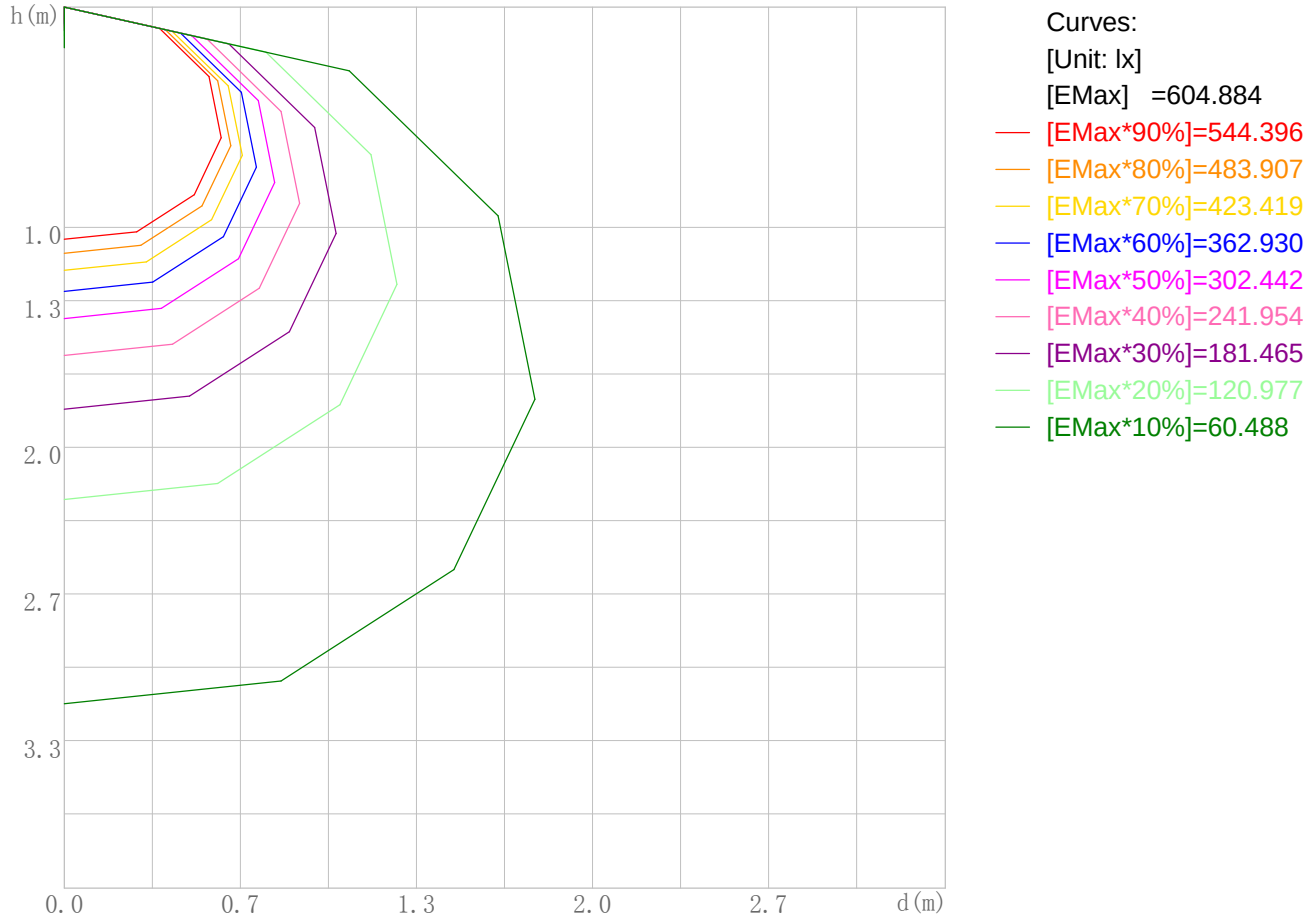
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

IES Flood Report
Photometric Filename: HCP-3326194.IES

Space ISO Illuminance Diagram

Lum.Name: HCP-3326194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

Space ISO Illuminance Curve



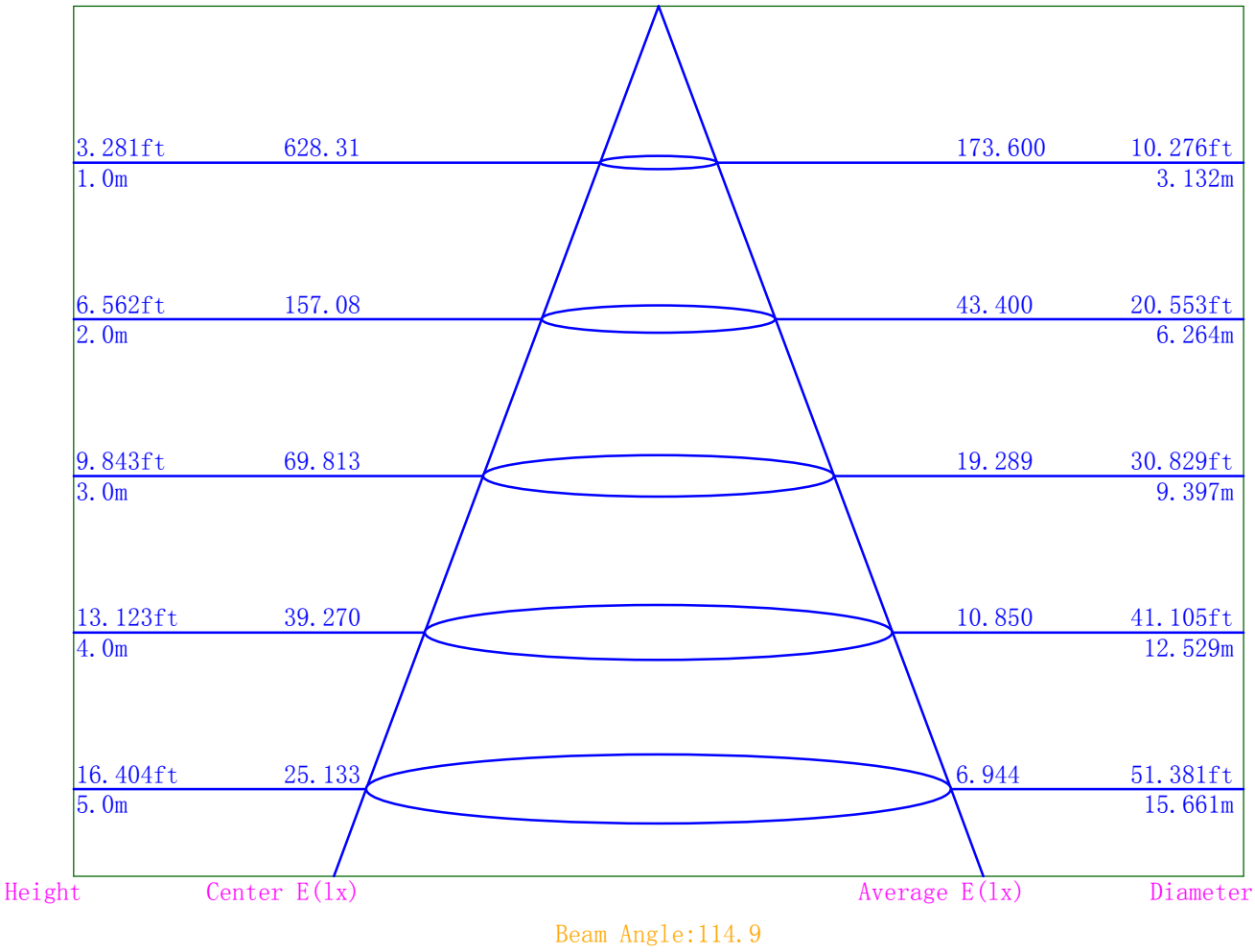
Space Plane Maximum Illuminance and @Angle:604.88lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:628.314cd,0eg

IES Flood Report
Photometric Filename: HCP-3326194.IES

Illuminance-Distance Diagram

Lum.Name: HCP-3326194	Lum.Catelog:	Test ID:
Lamp Name: 2110 4000K	Lamp Catelog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2019/05/21

Illuminance-Distance Curve



Beam Angle:114.9

IES Flood Report
Photometric Filename: HCP-3326194.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	6.88	13.46	19.56	23.09	25.51	25.97	25.61	23.27	19.65	14.76	8.91
B-75.0	1.91	24.47	60.51	99.37	124.42	148.49	149.71	149.68	126.59	101.88	62.72	27.20
B-60.0	1.91	51.99	128.49	206.30	259.58	301.69	308.26	303.58	262.52	209.54	131.23	54.49
B-45.0	1.91	80.84	195.48	304.36	380.39	435.12	447.11	437.40	383.90	307.94	198.14	82.36
B-30.0	1.91	104.15	248.12	377.71	470.89	533.84	550.98	536.24	474.65	381.35	250.46	105.12
B-15.0	1.91	118.56	279.95	420.58	524.38	591.12	611.98	593.58	528.08	424.03	281.99	119.31
B0.0	1.91	122.38	288.74	431.00	538.75	604.88	628.31	607.20	542.42	434.47	290.80	123.10
B15.0	1.91	115.32	274.65	409.87	514.80	576.29	600.82	578.51	518.30	413.21	276.77	116.29
B30.0	1.91	97.95	237.72	356.80	451.70	504.73	528.40	506.78	454.98	360.07	239.86	99.33
B45.0	1.91	72.75	180.92	274.98	353.06	394.19	415.27	396.05	355.98	278.09	183.22	74.47
B60.0	1.91	44.09	111.94	172.05	226.31	252.85	269.27	254.45	228.89	175.01	114.50	46.28
B75.0	1.91	18.05	46.12	68.80	93.11	102.26	111.94	103.48	95.31	71.22	48.22	20.46
B90.0	1.91	1.71	1.79	1.79	1.83	1.83	1.84	1.83	1.79	1.75	1.80	1.82

V/H	β 90.0
B-90.0	2.08
B-75.0	2.08
B-60.0	2.08
B-45.0	2.08
B-30.0	2.08
B-15.0	2.08
B0.0	2.08
B15.0	2.08
B30.0	2.08
B45.0	2.08
B60.0	2.08
B75.0	2.08
B90.0	2.08