IES Flood Report
Photometric Filename: HCP-3365144.IES

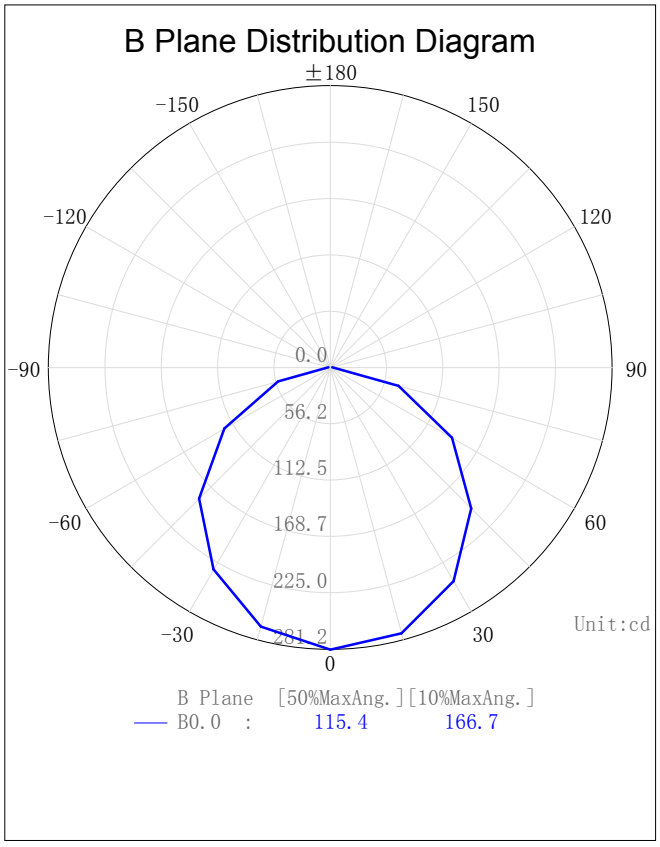
Flood Luminaire Photometric Data

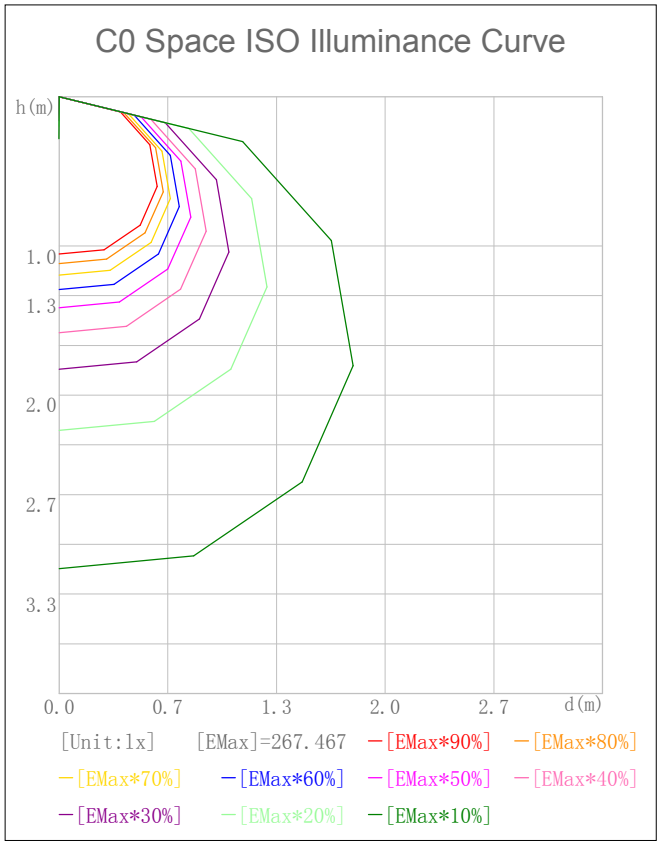
Description Information

Luminary Name: HCP-3365144		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):	1094.800	Luminary Flux(lm):	904.831	Beam Lumens(lm):	656.81
Rated Power(W):		Luminary Efficiency:	82.65%	Beam Efficiency(%):	72.59
Rated Voltage(V):		Luminary EER(lm/W):	62.836	Field Lumens(lm):	893.88
Tested Power(W):	14.400	Max.Candela(cd):	281.204	Field Efficiency(%):	98.79
Lamps' Inside:	1	Max Cand@Ang.(°):	B=0.0 β=0.0	ErP Φuse(120°):	654.068lm
Tested Electrics(V,A,pf):24.0,0.6,0.000		Beam Angle(50%)(V,H):	127.7(°),115.4(°)	IRF(%):	106.250
Lamp Size(W*L*H):0.010m*1.000m*0.010m		Field Angle(10%)(V,H):	176.5(°),166.7(°)		





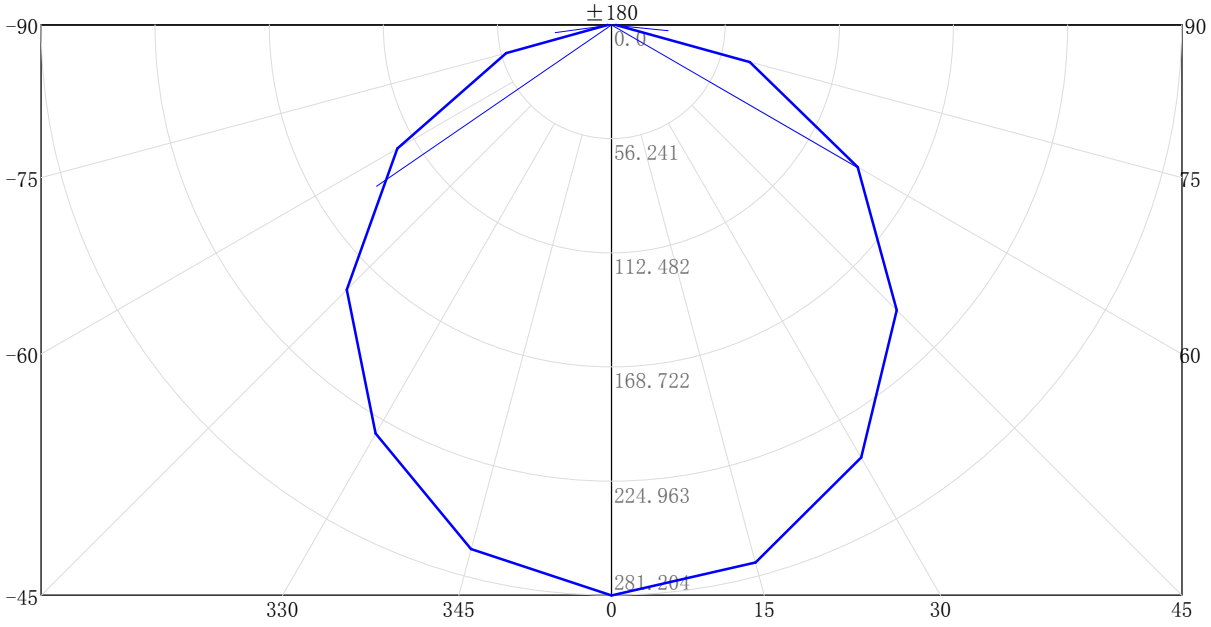
HAVIT LIGHTING
143 BEAUCHAMP RD., MATRAVILLE,NSW 2036 AUSTRALIA

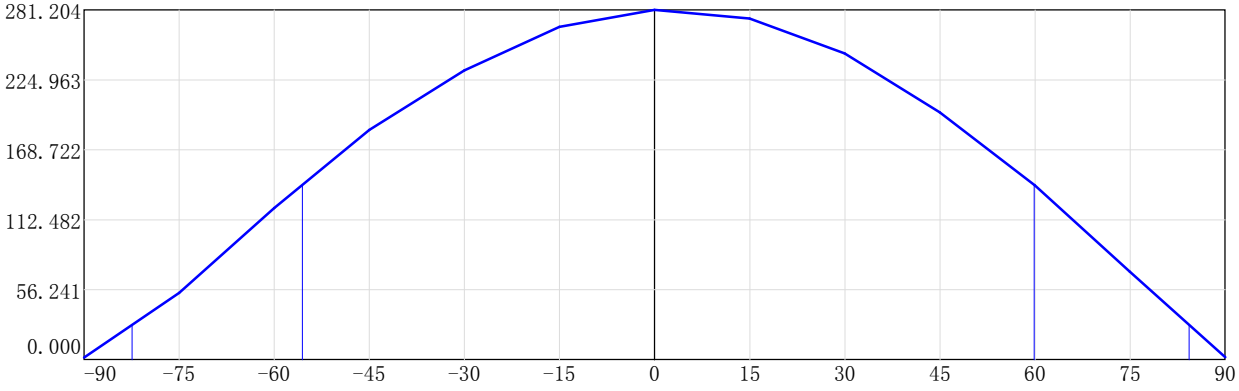
IES Flood Report
Photometric Filename: HCP-3365144.IES

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-3365144	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





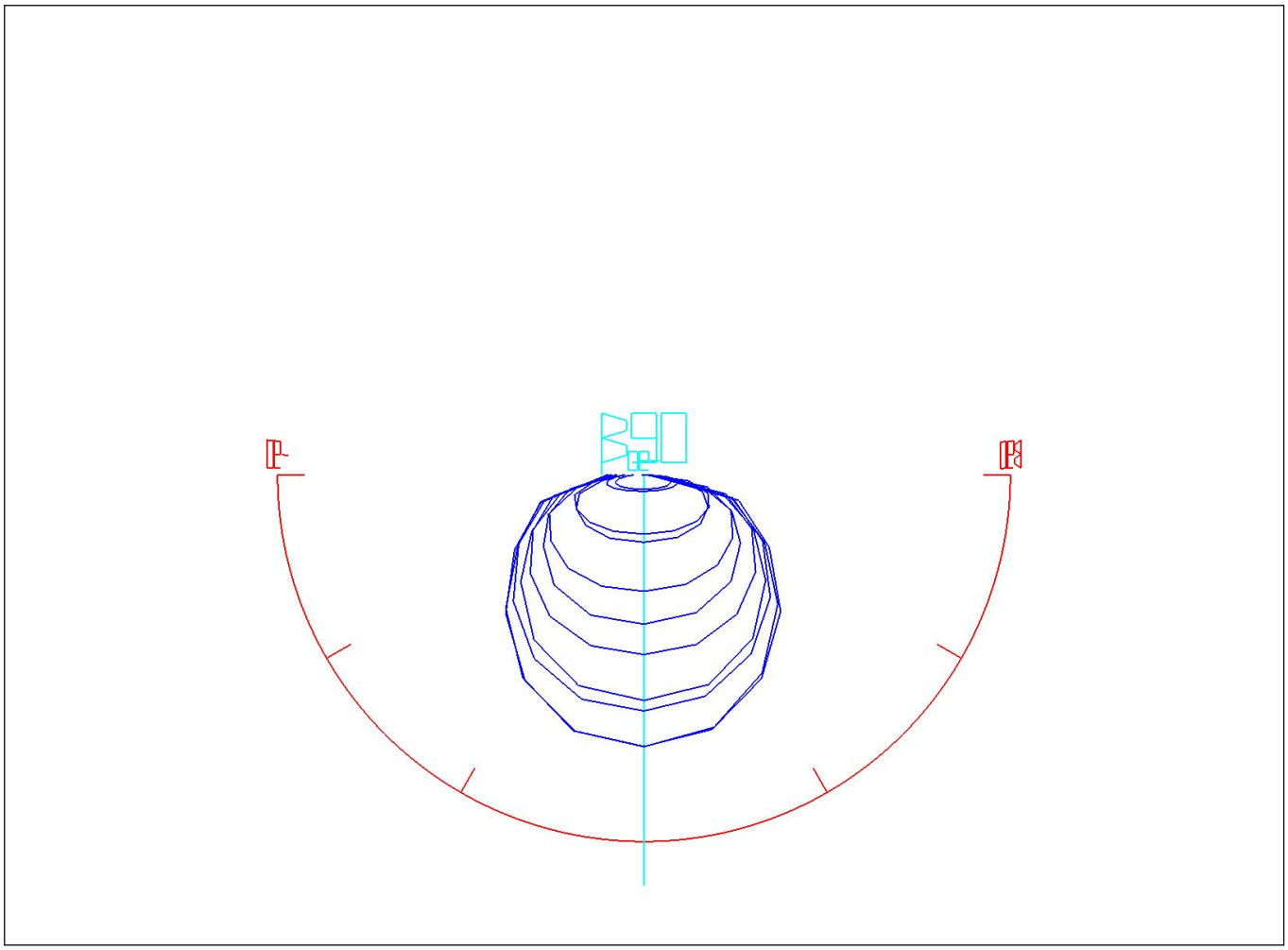
B Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
B0.0 :	115.4	166.7	

IES Flood Report
Photometric Filename: HCP-3365144.IES

3D Light Intensity Distribution Modal

Lum.Name: HCP-3365144	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-3365144.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	0.07	0.62	1.72	3.04	4.23	4.97	5.07	4.51	3.39	2.05	0.86	0.12
B-75.0	0.12	1.10	3.10	5.39	7.44	8.79	9.00	7.93	5.91	3.55	1.41	0.17
B-60.0	0.17	1.56	4.27	7.33	10.07	11.84	12.04	10.58	7.92	4.79	1.92	0.23
B-45.0	0.21	1.90	5.21	9.10	12.64	14.87	15.09	13.22	9.79	5.80	2.32	0.28
B-30.0	0.24	2.16	5.97	10.52	14.65	17.25	17.48	15.29	11.26	6.62	2.61	0.31
B-15.0	0.25	2.28	6.32	11.19	15.61	18.38	18.62	16.26	11.94	6.99	2.73	0.32
B0.0	0.24	2.26	6.28	11.14	15.54	18.29	18.52	16.16	11.87	6.94	2.71	0.32
B15.0	0.23	2.11	5.85	10.38	14.47	17.02	17.22	15.04	11.05	6.46	2.53	0.30
B30.0	0.20	1.82	5.03	8.92	12.41	14.60	14.77	12.91	9.51	5.58	2.20	0.26
B45.0	0.15	1.45	4.02	7.09	9.81	11.51	11.66	10.23	7.59	4.49	1.77	0.21
B60.0	0.10	0.98	2.80	5.03	7.00	8.23	8.34	7.32	5.43	3.19	1.24	0.15
B75.0	0.05	0.40	1.11	2.05	2.92	3.48	3.56	3.13	2.32	1.36	0.55	0.07
B90.0												
Total	2.02	18.63	51.69	91.18	126.78	149.22	151.35	132.57	97.98	57.81	22.86	2.75

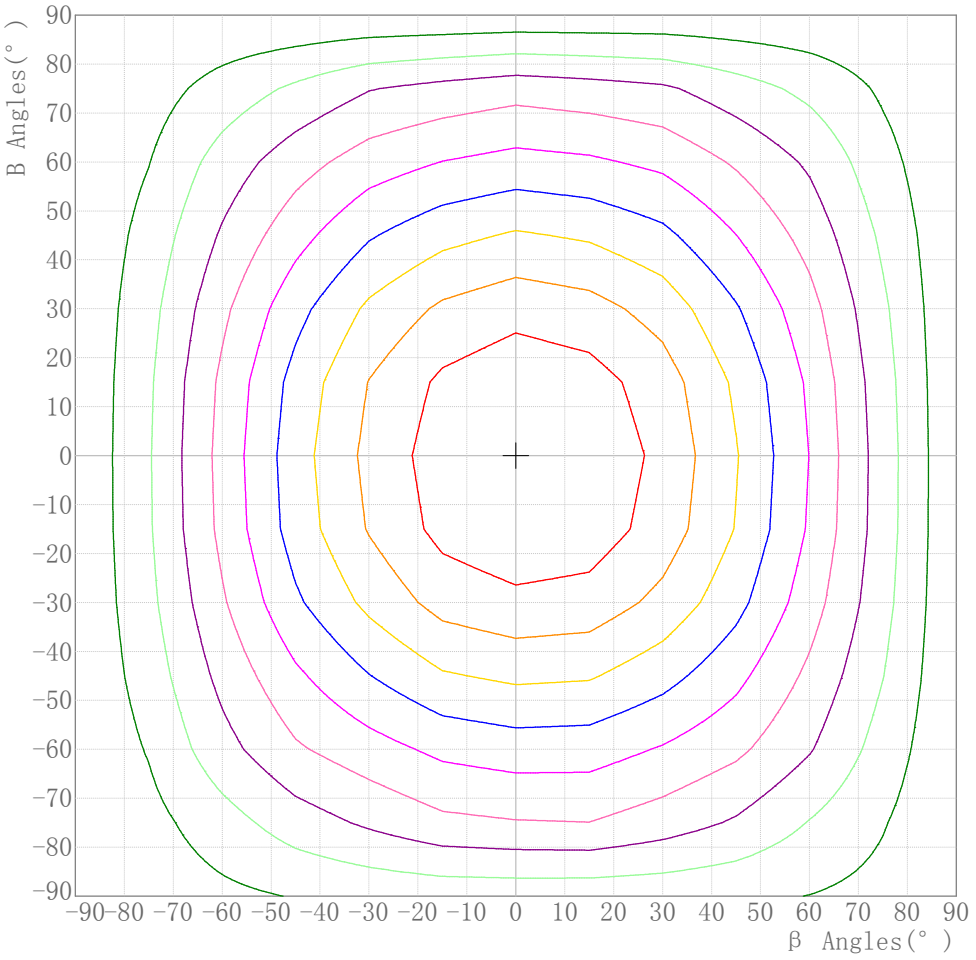
β 90.0	Total
B-90.0	30.64
B-75.0	53.91
B-60.0	72.72
B-45.0	90.44
B-30.0	104.35
B-15.0	110.89
B0.0	110.26
B15.0	102.67
B30.0	88.20
B45.0	69.96
B60.0	49.81
B75.0	21.00
B90.0	
Total	904.83

IES Flood Report
Photometric Filename: HCP-3365144.IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-3365144	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] =281.204
[IMax*90%]=253.084
[IMax*80%]=224.963
[IMax*70%]=196.843
[IMax*60%]=168.722
[IMax*50%]=140.602
[IMax*40%]=112.482
[IMax*30%]=84.361
[IMax*20%]=56.241
[IMax*10%]=28.120

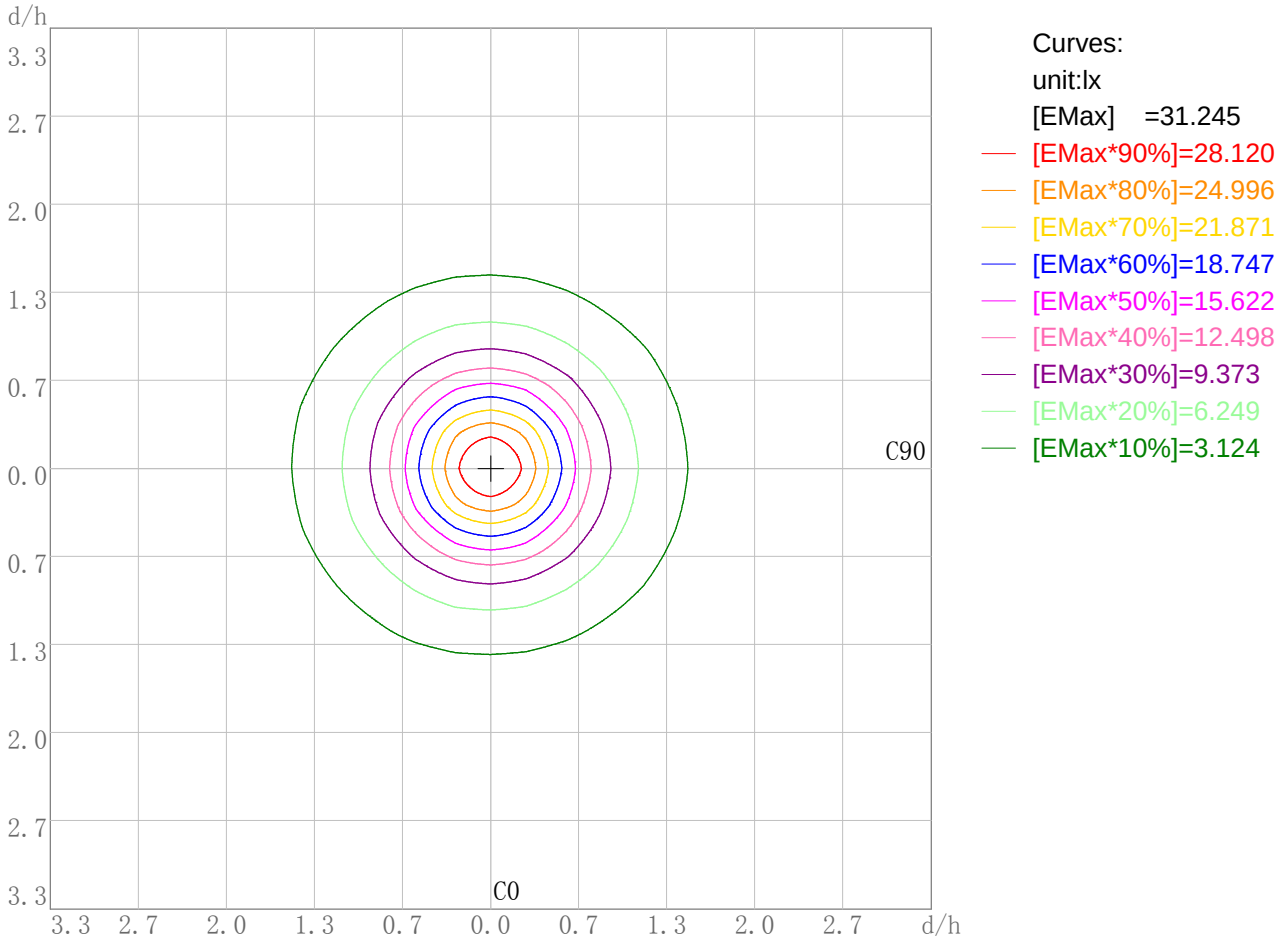
Maximum Light Intensity(cd): 281.20
Maximum Cand.@Angle: H=0.0°,V=0.0°

IES Flood Report
Photometric Filename: HCP-3365144.IES

Plane ISO-Illuminance Diagram

Lum.Name: HCP-3365144	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



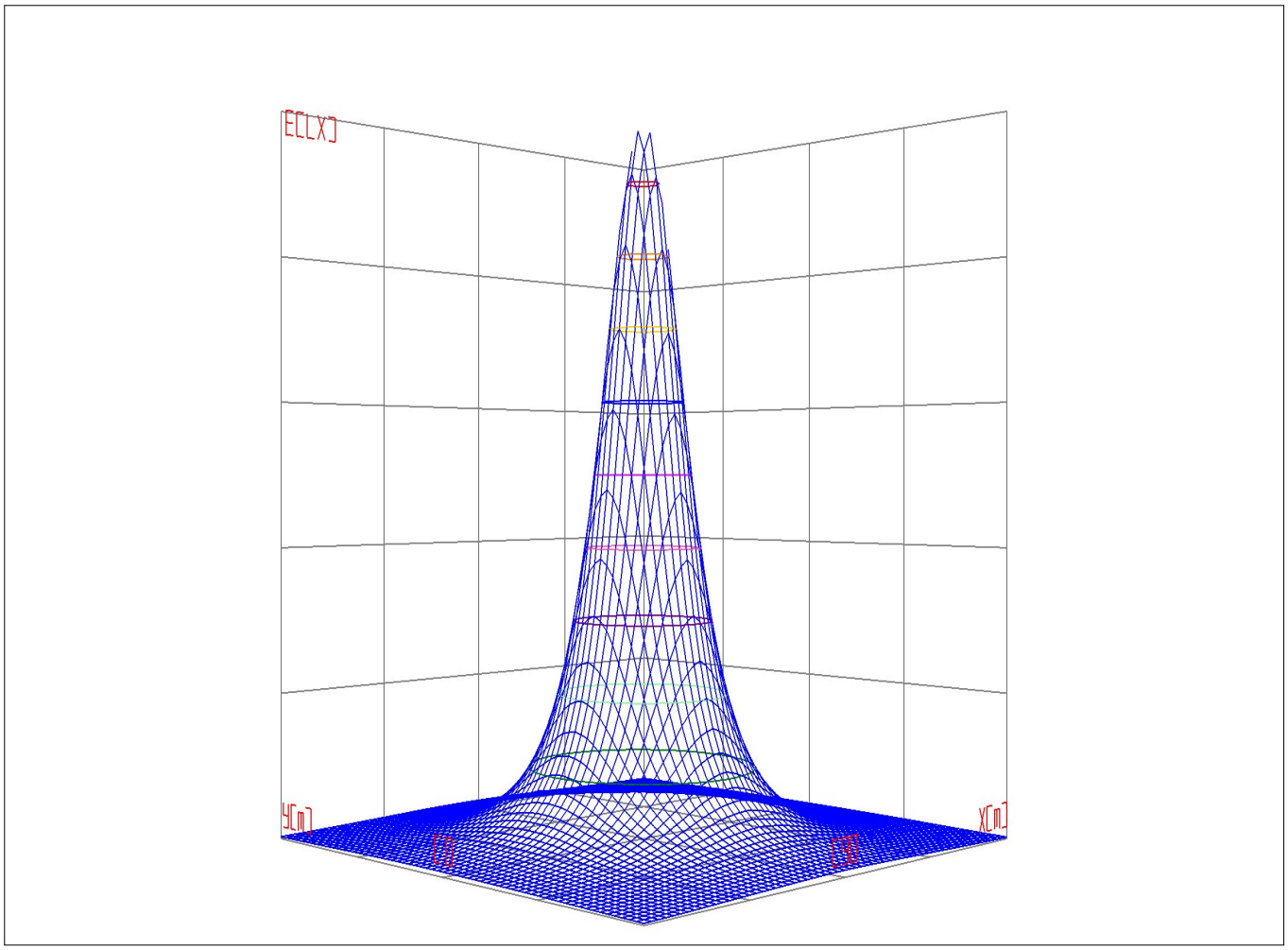
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 31.24
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

IES Flood Report
Photometric Filename: HCP-3365144.IES

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-3365144	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%

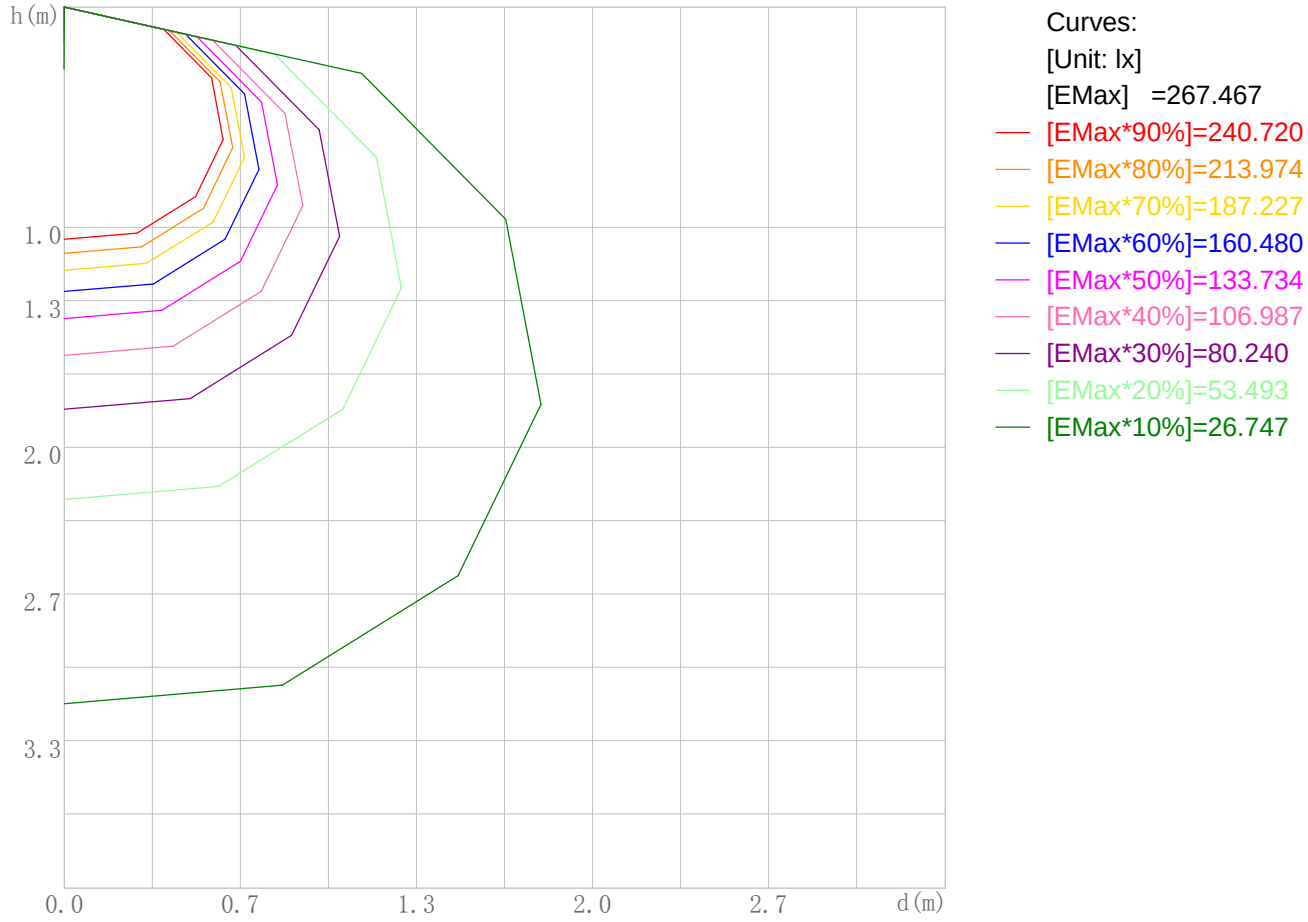
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

IES Flood Report
Photometric Filename: HCP-3365144.IES

Space ISO Illuminance Diagram

Lum.Name: HCP-3365144	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



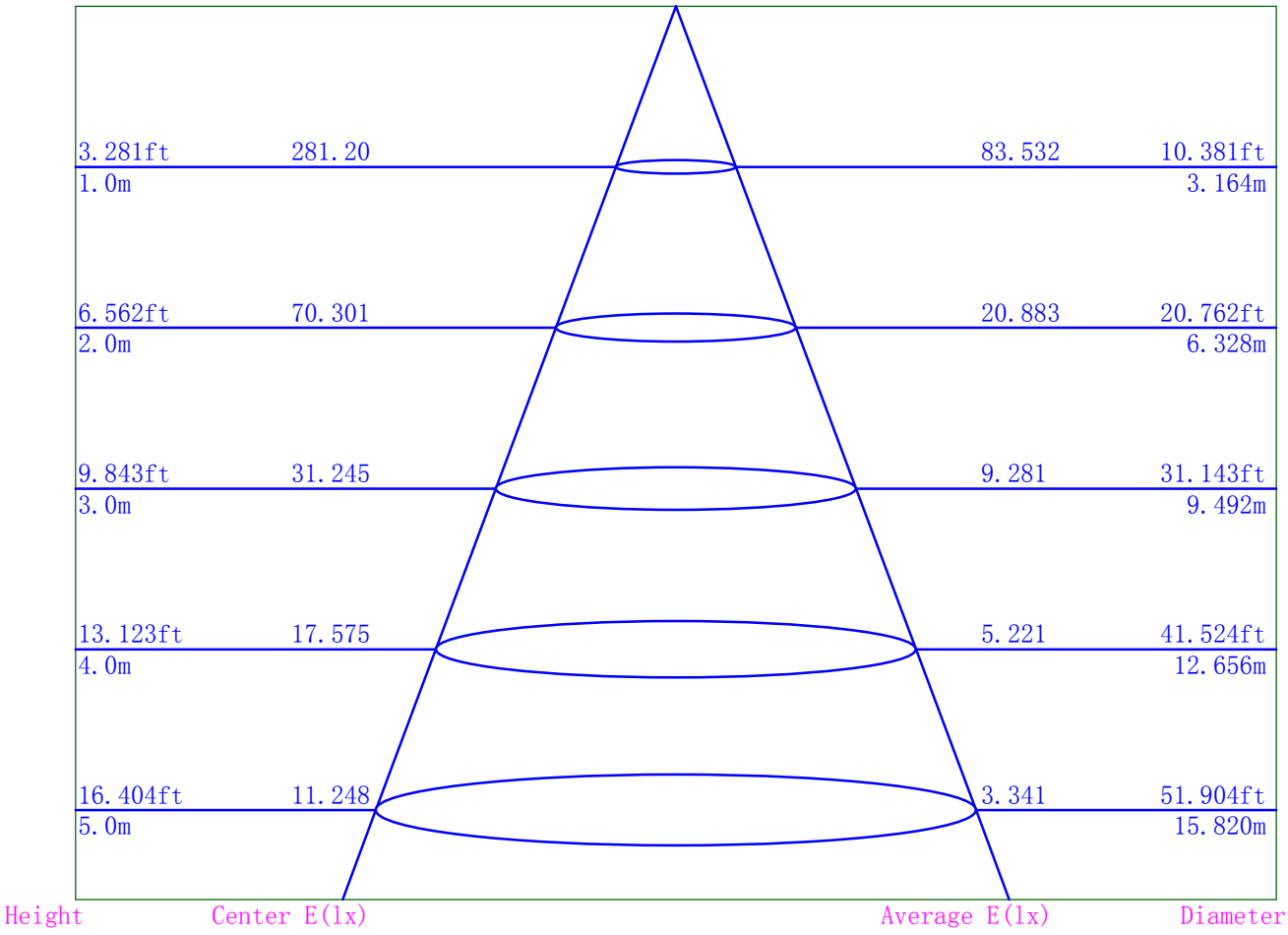
Space Plane Maximum Illuminance and @Angle:267.47lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:281.204cd,0eg

IES Flood Report
Photometric Filename: HCP-3365144.IES

Illuminance-Distance Diagram

Lum.Name: HCP-3365144	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:115.4

IES Flood Report
Photometric Filename: HCP-3365144.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	1.84	10.29	21.38	29.50	34.88	37.93	38.49	37.93	36.84	33.47	27.62	19.18
B-75.0	1.84	18.80	44.28	70.64	88.95	105.99	110.71	112.18	98.57	80.95	54.91	30.03
B-60.0	1.84	30.20	74.25	108.73	128.97	147.45	154.79	153.51	138.17	118.66	86.70	44.21
B-45.0	1.84	40.96	92.47	135.43	167.85	193.87	202.56	199.73	178.99	148.43	106.34	56.95
B-30.0	1.84	48.78	108.93	164.07	203.95	235.31	246.33	242.02	216.85	177.80	125.45	65.61
B-15.0	1.84	52.94	119.72	181.41	227.01	261.88	274.66	268.77	240.68	195.49	137.33	70.05
B0.0	1.84	53.67	121.88	184.67	232.49	267.47	281.20	274.34	246.09	198.85	140.13	70.62
B15.0	1.84	51.96	118.25	178.63	225.86	258.66	272.68	264.87	238.53	191.90	135.89	67.85
B30.0	1.84	46.76	106.11	159.40	202.12	229.99	243.47	235.59	213.49	171.38	122.38	61.24
B45.0	1.84	38.31	87.80	130.39	165.86	188.01	200.18	192.89	175.69	140.95	101.91	50.98
B60.0	1.84	27.26	67.90	100.51	126.25	141.10	149.90	145.14	134.04	108.94	79.90	37.73
B75.0	1.84	15.15	39.31	61.24	82.87	93.04	101.56	95.95	88.83	68.84	48.80	23.91
B90.0	1.84	2.75	3.36	3.21	4.14	4.68	5.97	6.41	7.12	6.53	6.26	5.39

V/H	β 90.0
B-90.0	2.10
B-75.0	2.10
B-60.0	2.10
B-45.0	2.10
B-30.0	2.10
B-15.0	2.10
B0.0	2.10
B15.0	2.10
B30.0	2.10
B45.0	2.10
B60.0	2.10
B75.0	2.10
B90.0	2.10