IES Flood Report
Photometric Filename: HCP-3365964 .IES

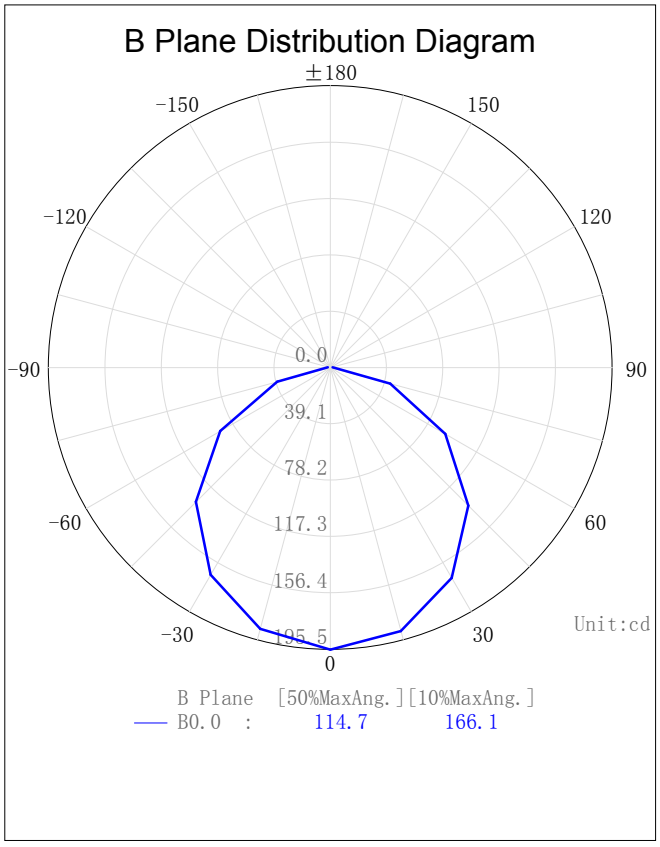
Flood Luminaire Photometric Data

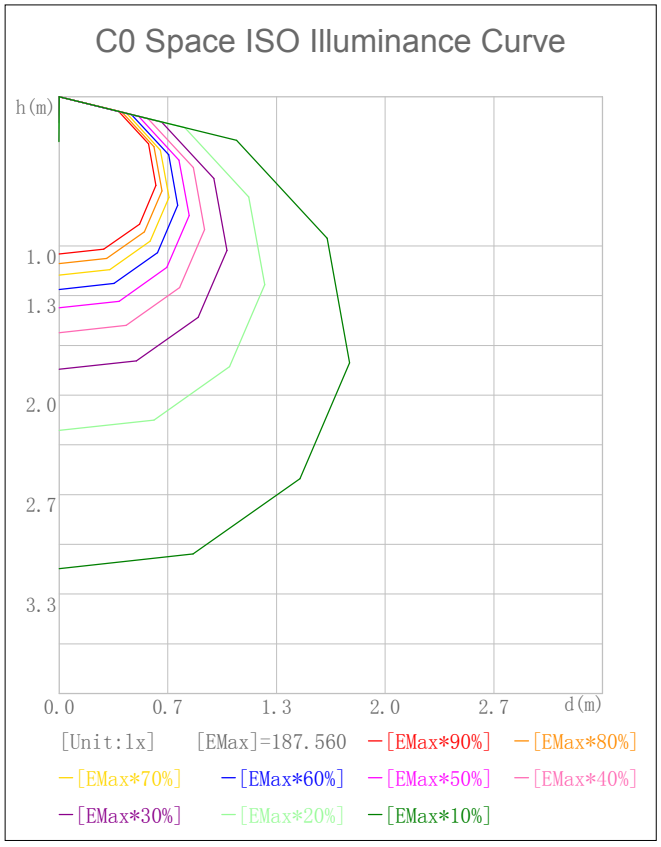
Description Information

Luminary Name: HCP-3365964		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):	730.000	Luminary Flux(lm):	629.540	Beam Lumens(lm):	462.32
Rated Power(W):		Luminary Efficiency:	86.24%	Beam Efficiency(%):	73.44
Rated Voltage(V):		Luminary EER(lm/W):	66.073	Field Lumens(lm):	621.40
Tested Power(W):	9.528	Max.Candela(cd):	195.463	Field Efficiency(%):	98.71
Lamps' Inside:	1	Max Cand@Ang.(°):	B=0.0 β=0.0	ErP Φuse(120°):	457.457lm
Tested Electrics(V,A,pf):24.0,0.3970,0.000		Beam Angle(50%)(V,H):	128.6(°),114.7(°)	IRF(%):	105.483
Lamp Size(W*L*H):0.010m*1.000m*0.010m		Field Angle(10%)(V,H):	175.9(°),166.1(°)		





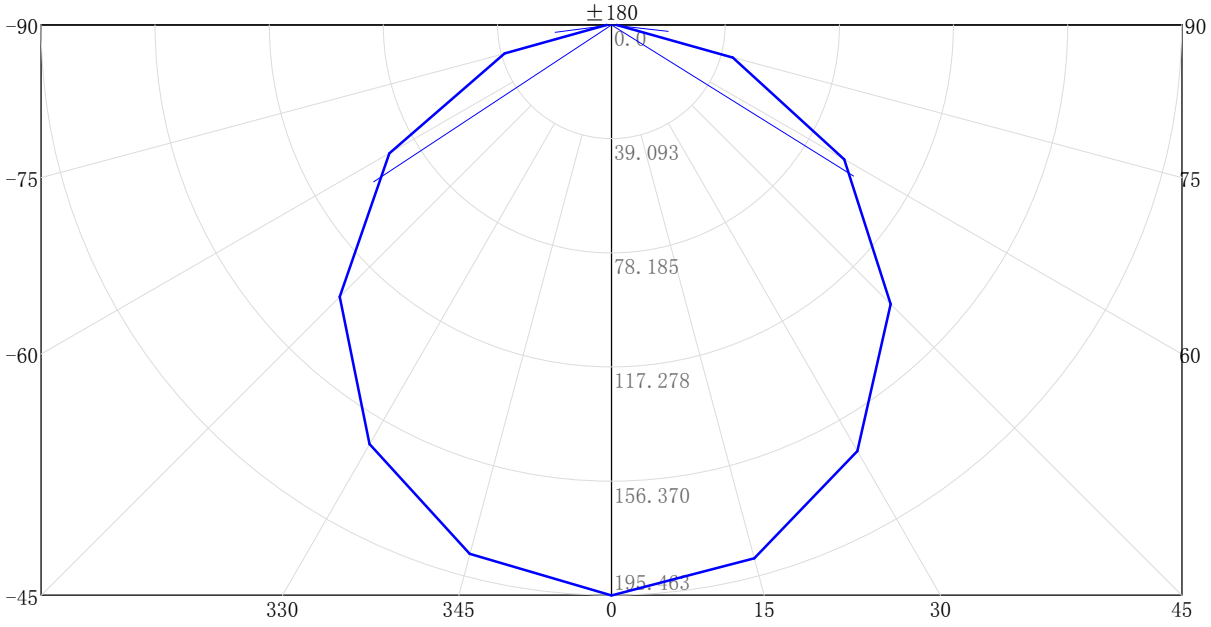
HAVIT LIGHTING
143 BEAUCHAMP RD., MATRAVILLE,NSW 2036 AUSTRALIA

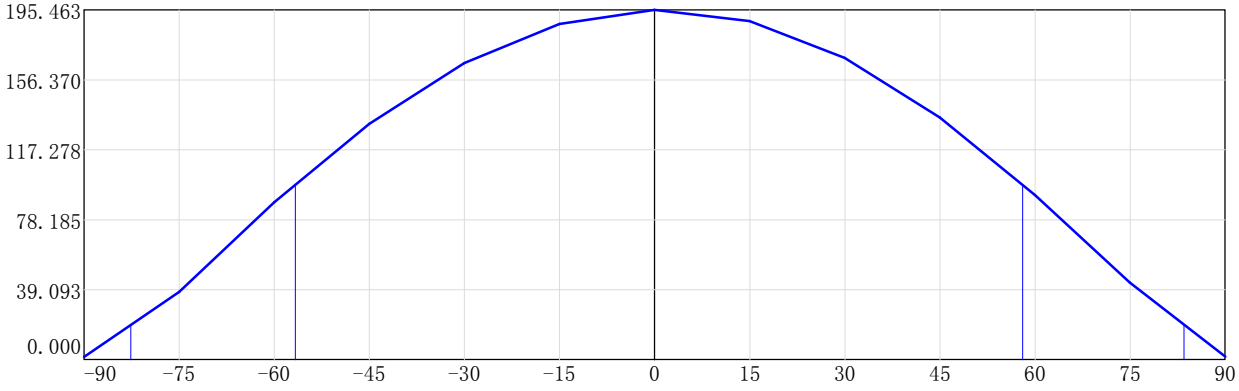
IES Flood Report
Photometric Filename: HCP-3365964 .IES

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-3365964	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





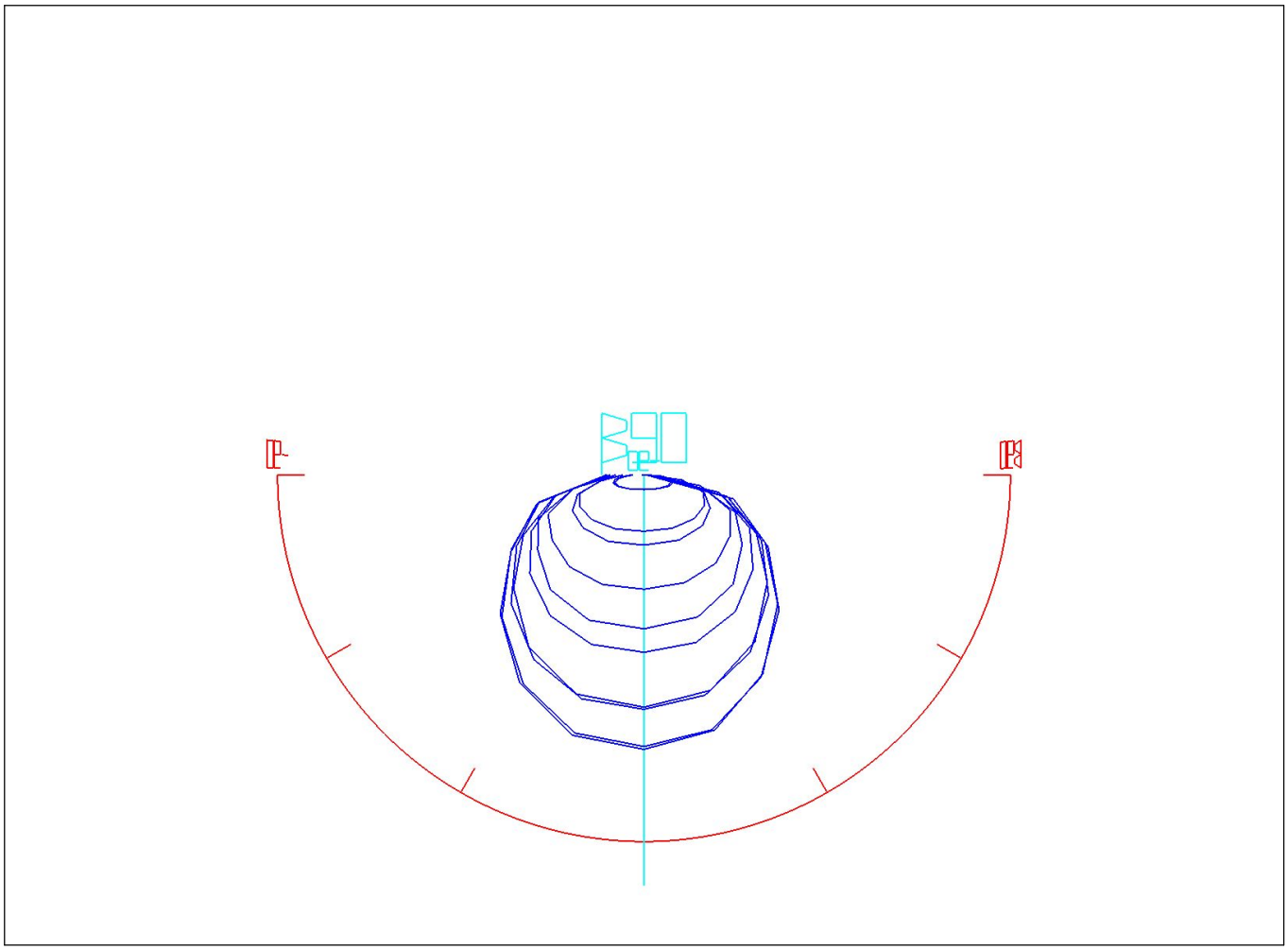
B Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
B0.0 :	114.7	166.1	

IES Flood Report
Photometric Filename: HCP-3365964 .IES

3D Light Intensity Distribution Modal

Lum.Name: HCP-3365964	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-3365964 .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	0.05	0.44	1.23	2.19	3.07	3.59	3.61	3.11	2.23	1.27	0.48	0.06	
B-75.0	0.08	0.77	2.28	4.02	5.48	6.37	6.40	5.55	4.08	2.34	0.84	0.10	
B-60.0	0.12	1.11	3.15	5.44	7.37	8.52	8.56	7.45	5.53	3.23	1.19	0.13	
B-45.0	0.15	1.37	3.78	6.61	9.13	10.60	10.65	9.24	6.75	3.90	1.47	0.17	
B-30.0	0.17	1.56	4.30	7.58	10.47	12.17	12.22	10.59	7.73	4.45	1.67	0.19	
B-15.0	0.18	1.64	4.54	8.01	11.07	12.88	12.93	11.21	8.17	4.70	1.75	0.20	
B0.0	0.17	1.62	4.50	7.94	10.98	12.78	12.83	11.12	8.11	4.66	1.74	0.20	
B15.0	0.16	1.51	4.18	7.38	10.20	11.86	11.92	10.33	7.54	4.33	1.63	0.19	
B30.0	0.14	1.30	3.58	6.30	8.70	10.12	10.17	8.82	6.45	3.71	1.40	0.16	
B45.0	0.11	1.02	2.87	5.03	6.87	7.96	8.01	6.98	5.15	2.98	1.11	0.13	
B60.0	0.07	0.68	1.96	3.50	4.82	5.60	5.63	4.90	3.60	2.05	0.76	0.09	
B75.0	0.03	0.27	0.75	1.36	1.91	2.24	2.25	1.94	1.40	0.79	0.31	0.04	
B90.0													
Total	1.44	13.29	37.12	65.36	90.06	104.69	105.19	91.25	66.73	38.42	14.34	1.65	

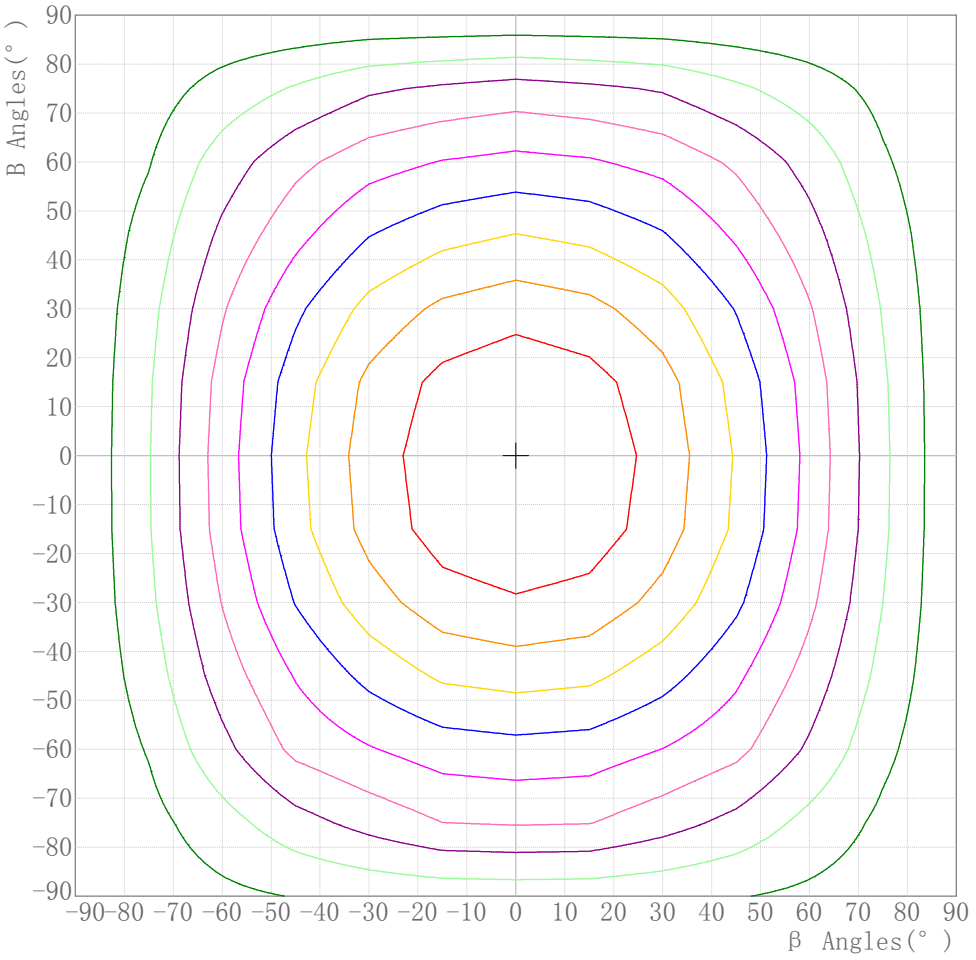
	β 90.0	Total
B-90.0		21.33
B-75.0		38.32
B-60.0		51.81
B-45.0		63.83
B-30.0		73.09
B-15.0		77.27
B0.0		76.66
B15.0		71.23
B30.0		60.85
B45.0		48.22
B60.0		33.66
B75.0		13.28
B90.0		
Total		629.54

IES Flood Report
Photometric Filename: HCP-3365964 .IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-3365964	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] =195.463
[IMax*90%]=175.917
[IMax*80%]=156.370
[IMax*70%]=136.824
[IMax*60%]=117.278
[IMax*50%]=97.731
[IMax*40%]=78.185
[IMax*30%]=58.639
[IMax*20%]=39.093
[IMax*10%]=19.546

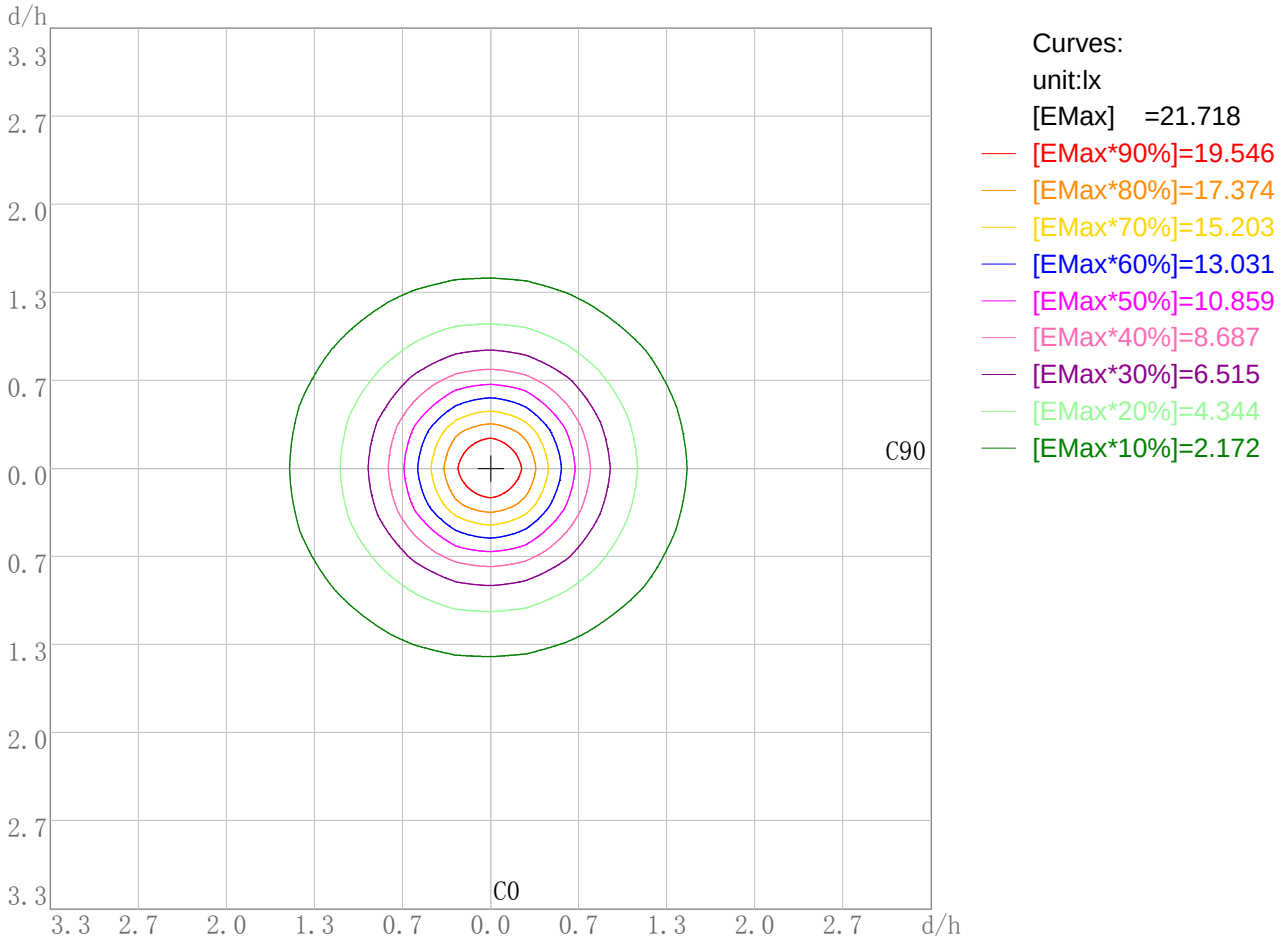
Maximum Light Intensity(cd): 195.46
Maximum Cand.@Angle: H=0.0°,V=0.0°

IES Flood Report
Photometric Filename: HCP-3365964 .IES

Plane ISO-Illuminance Diagram

Lum.Name: HCP-3365964	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



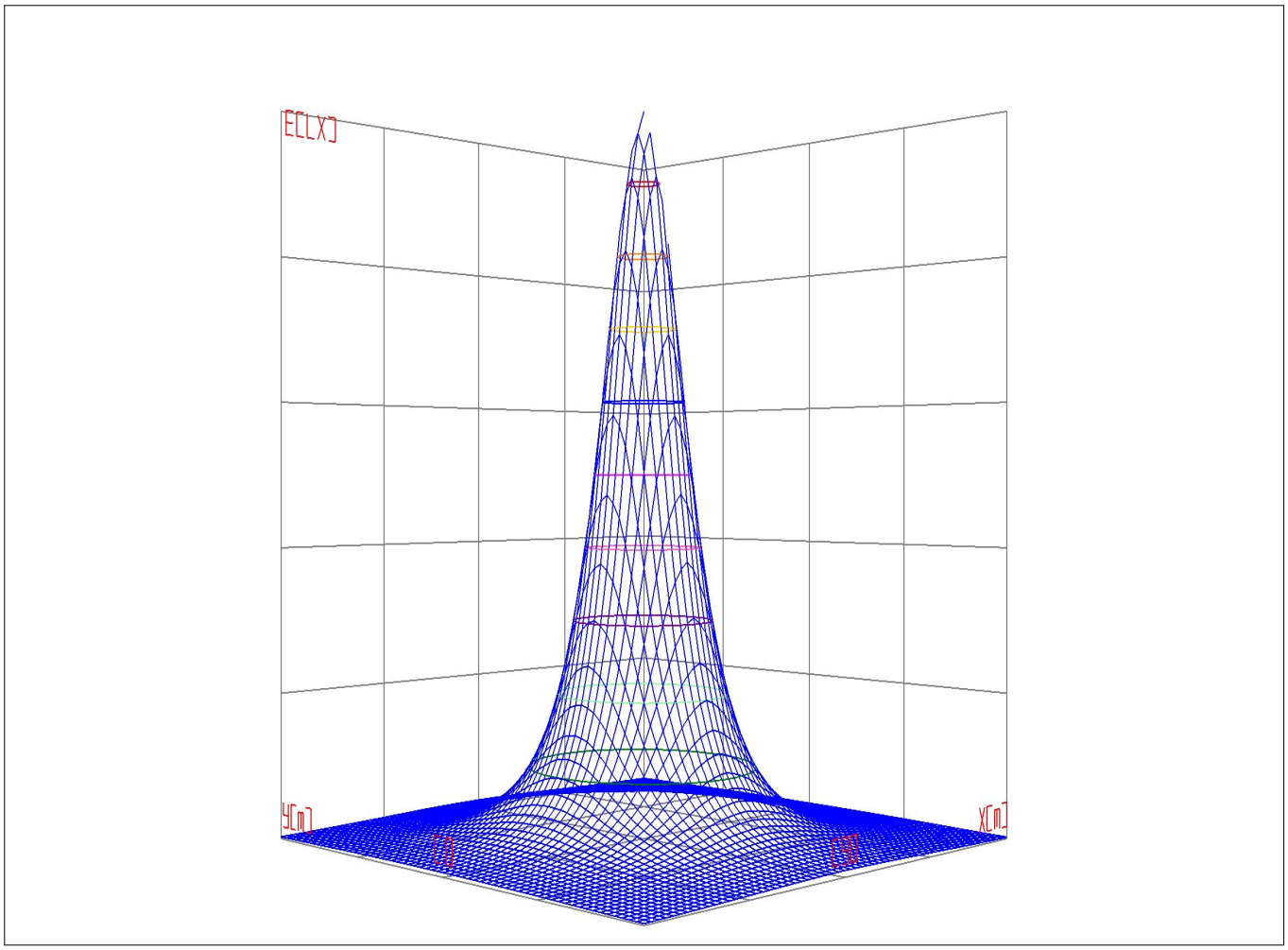
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 21.72
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

IES Flood Report
Photometric Filename: HCP-3365964 .IES

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-3365964	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%

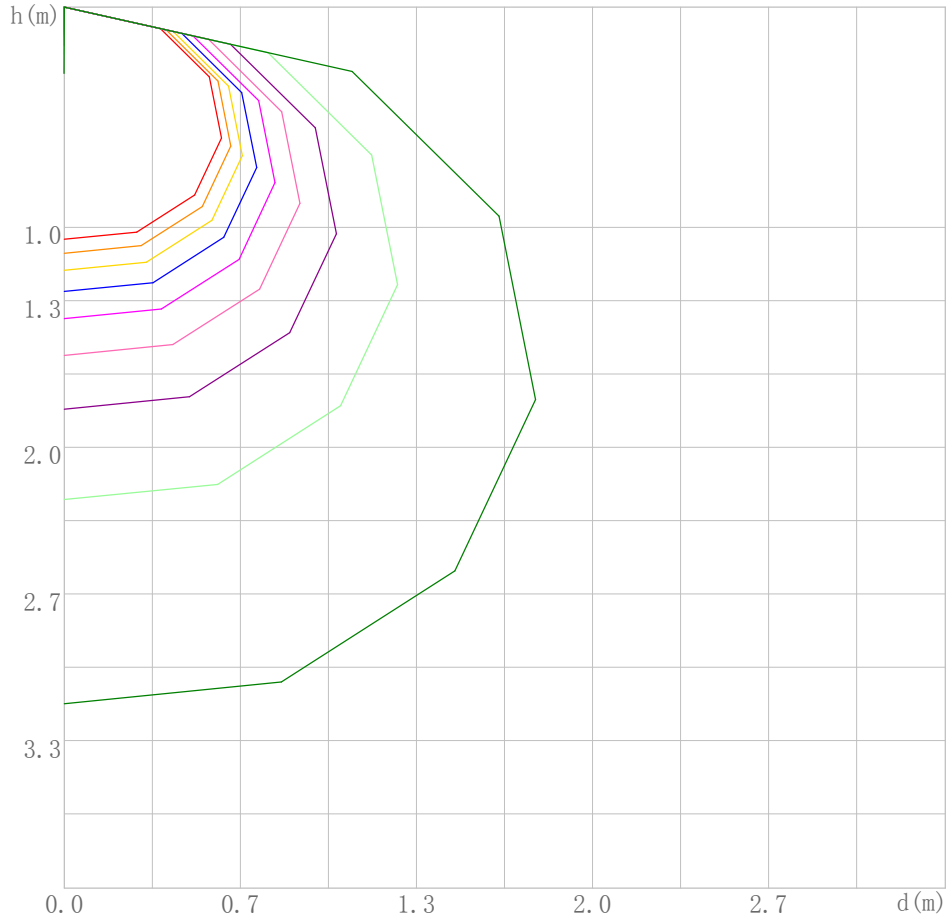
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

IES Flood Report
Photometric Filename: HCP-3365964 .IES

Space ISO Illuminance Diagram

Lum.Name: HCP-3365964	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



Curves:
[Unit: lx]
[EMax] =187.560
[EMax*90%]=168.804
[EMax*80%]=150.048
[EMax*70%]=131.292
[EMax*60%]=112.536
[EMax*50%]=93.780
[EMax*40%]=75.024
[EMax*30%]=56.268
[EMax*20%]=37.512
[EMax*10%]=18.756

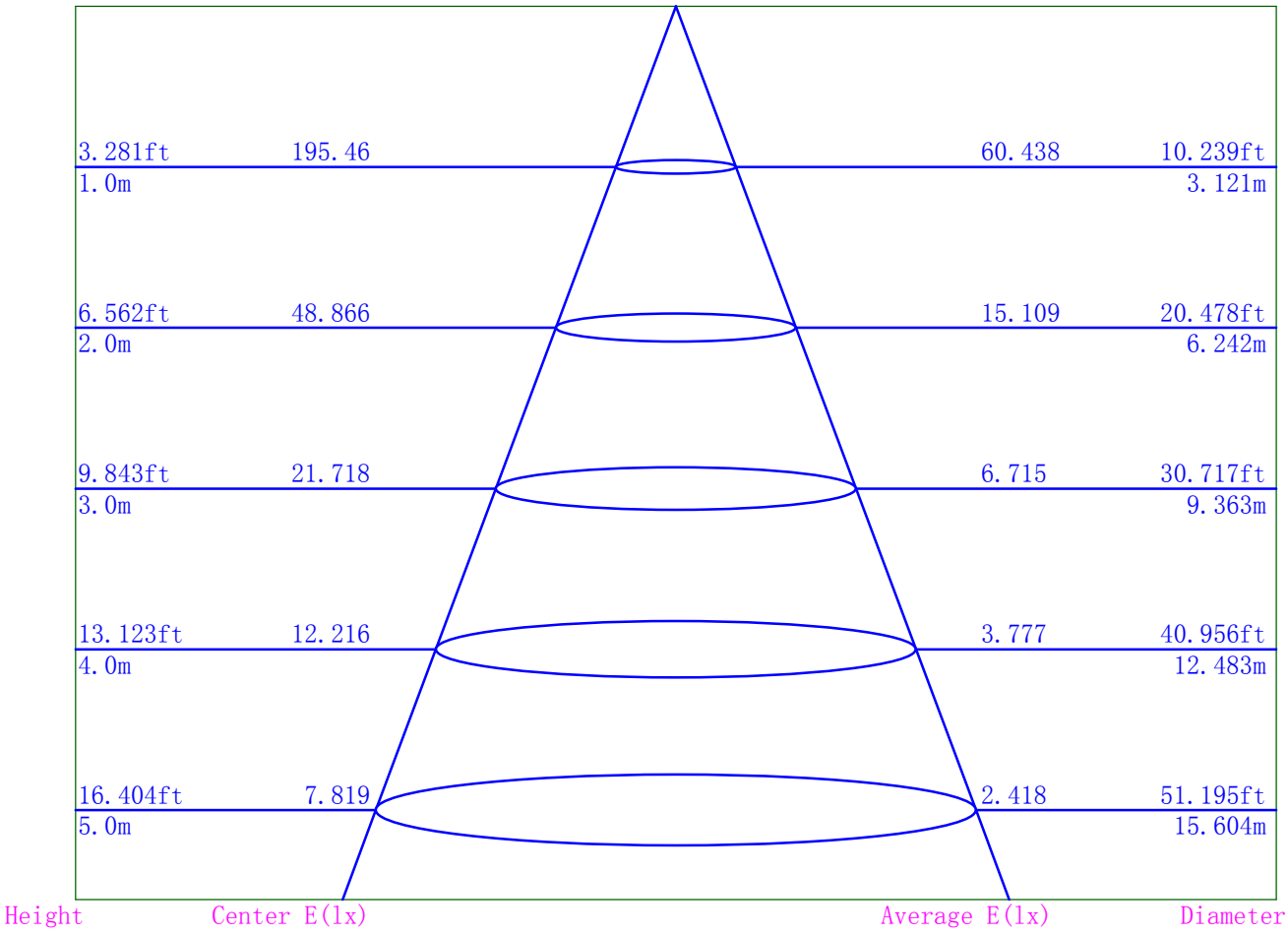
Space Plane Maximum Illuminance and @Angle:187.56lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:195.463cd,0eg

IES Flood Report
Photometric Filename: HCP-3365964 .IES

Illuminance-Distance Diagram

Lum.Name: HCP-3365964	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:114.7

IES Flood Report
Photometric Filename: HCP-3365964 .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	1.68	7.79	15.00	20.35	24.30	26.59	27.32	26.79	24.43	20.60	15.49	9.09
B-75.0	1.68	13.18	31.39	51.26	65.55	78.08	79.97	78.94	66.85	52.84	33.12	15.28
B-60.0	1.68	20.95	52.93	83.23	96.29	107.50	110.68	108.43	97.43	83.79	55.56	24.28
B-45.0	1.68	28.82	67.69	99.08	122.96	140.04	144.72	141.32	124.95	101.63	69.91	32.80
B-30.0	1.68	34.59	78.92	118.17	147.62	167.52	173.72	169.02	149.96	121.32	82.49	39.16
B-15.0	1.68	37.63	86.72	129.91	163.15	184.88	192.32	186.45	165.74	133.38	90.65	42.46
B0.0	1.68	37.93	87.94	131.75	165.77	187.56	195.46	189.22	168.57	135.29	92.10	43.07
B15.0	1.68	36.70	85.29	127.46	160.82	181.58	189.82	183.18	163.65	130.75	89.42	41.86
B30.0	1.68	32.95	76.08	113.21	142.93	160.58	168.41	162.16	145.49	116.24	79.84	37.81
B45.0	1.68	26.57	62.92	92.16	116.75	130.60	137.53	132.11	119.01	94.81	66.05	30.96
B60.0	1.68	18.45	48.23	72.57	89.54	98.61	103.14	99.88	91.31	74.77	51.12	22.15
B75.0	1.68	10.25	26.76	41.05	55.38	61.77	66.85	62.55	56.65	42.78	28.84	13.60
B90.0	1.68	2.07	2.33	2.04	1.84	1.73	1.78	1.76	1.84	1.82	2.08	2.23

V/H	β 90.0
B-90.0	1.70
B-75.0	1.70
B-60.0	1.70
B-45.0	1.70
B-30.0	1.70
B-15.0	1.70
B0.0	1.70
B15.0	1.70
B30.0	1.70
B45.0	1.70
B60.0	1.70
B75.0	1.70
B90.0	1.70