

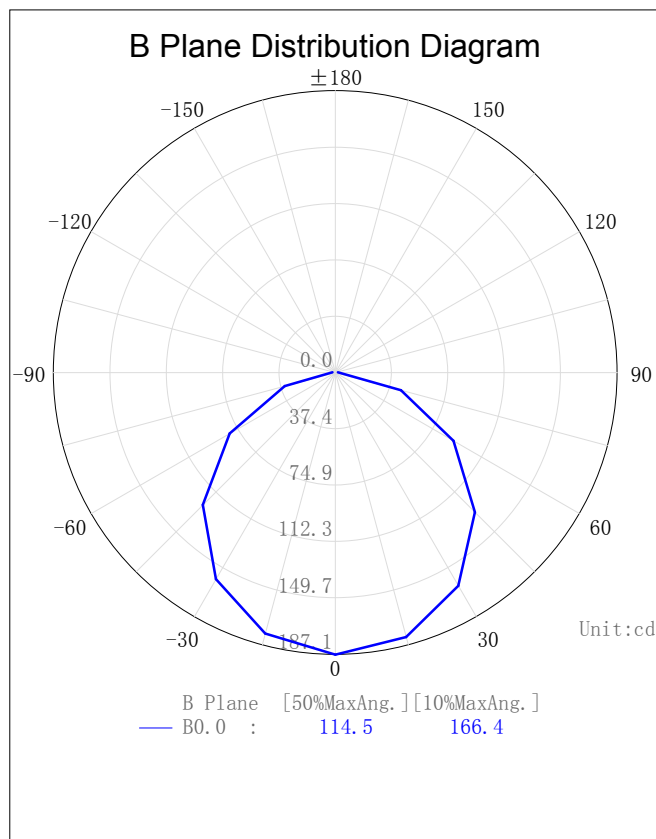
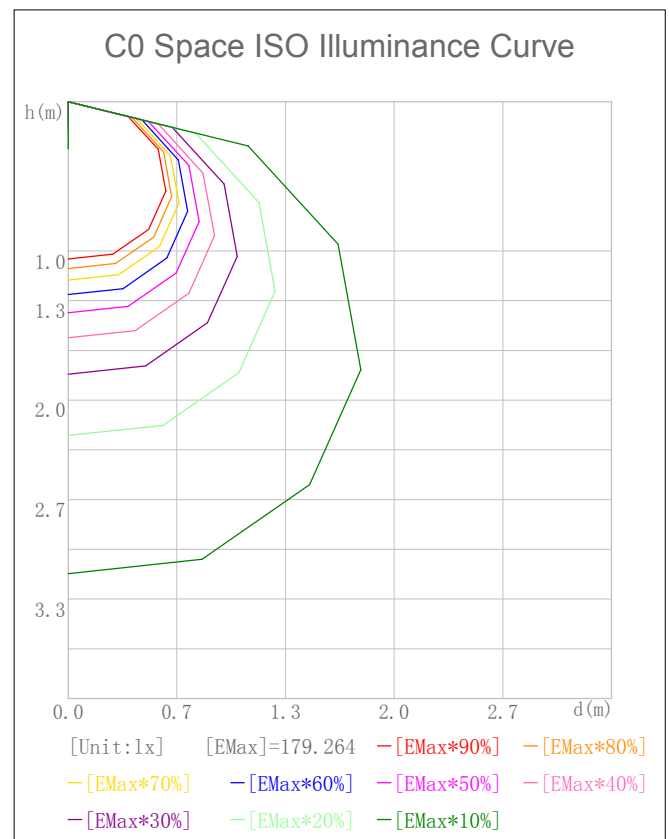
Flood Luminaire Photometric Data

Description Information

Luminary Name: HCP-3365963	Lum. Catalog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catalog:	Test Date: 2019/07/17
Manufacture: HAVIT COMMERCIAL	Shld. Ang(°):	Test Machine: GON-2000
Test Lab:	Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H): 0.008m*1.000m*0.010m	Lum. Area (m2): 0.018	Lum. W (kg):
Test System: B, β	Test Step: B=15.0 β =15.0	Temp. (°C):
		Humidity (%):

Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 677.630	Luminary Flux(lm): 599.014	Beam Lumens(lm): 433.68
Rated Power(W):	Luminary Efficiency: 88.40%	Beam Efficiency(%): 72.40
Rated Voltage(V):	Luminary EER(lm/W): 63.671	Field Lumens(lm): 591.55
Tested Power(W): 9.408	Max. Candela(cd): 187.126	Field Efficiency(%): 98.75
Lamps' Inside: 1	Max Cand@Ang. (°): B=0.0 β =0.0	ErP Φ use(120°): 435.366lm
Tested Electrics(V, A, pf): 24.0, 0.392, 0.000	Beam Angle(50%) (V, H): 125.7(°), 114.5(°)	IRF(%): 105.882
Lamp Size (W*L*H): 0.008m*1.000m*0.010m	Field Angle(10%) (V, H): 176.3(°), 166.4(°)	



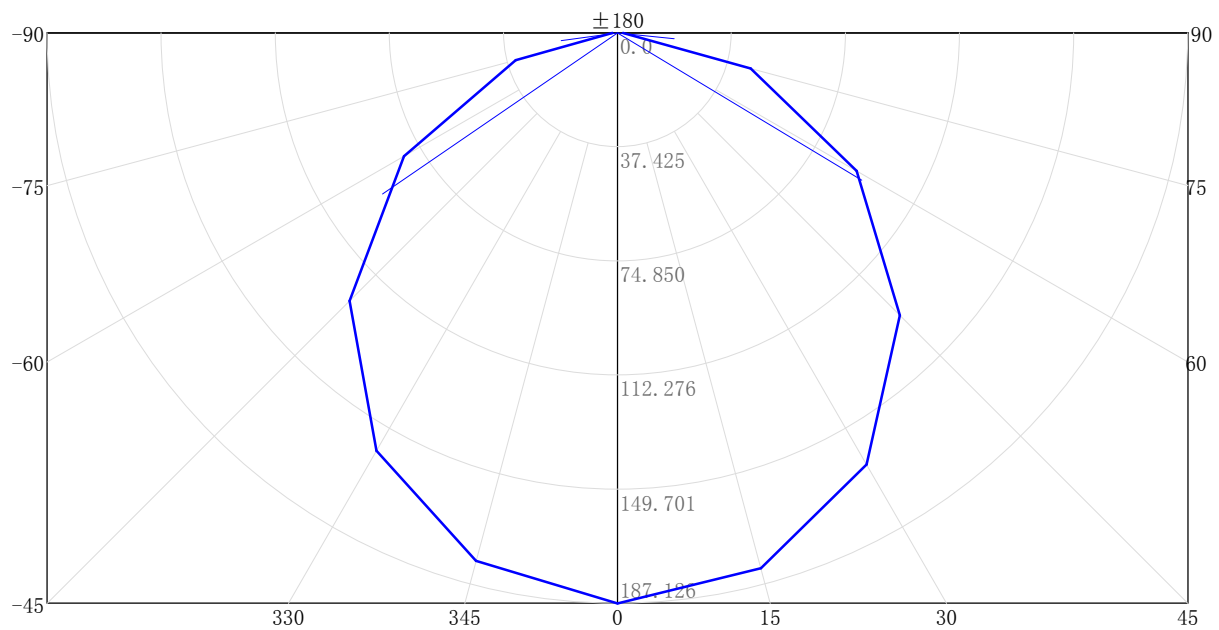
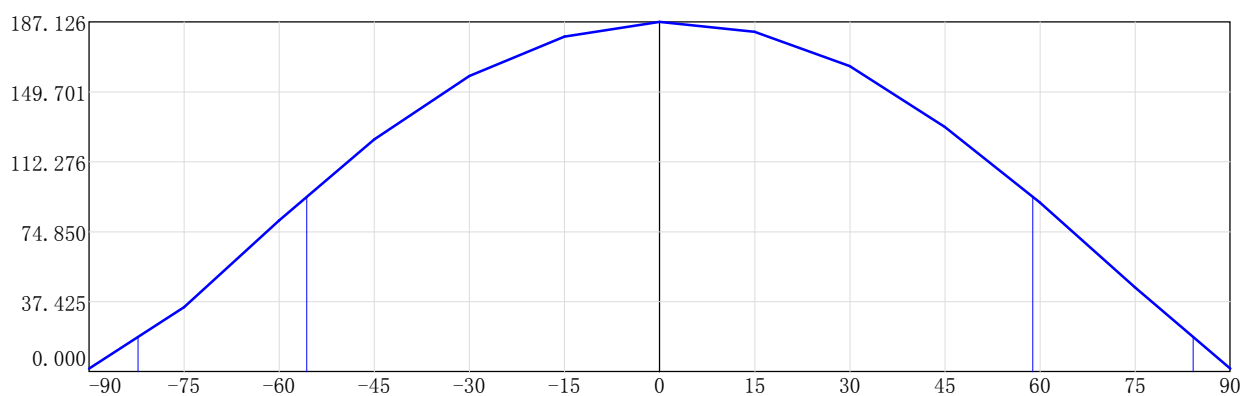
IES Flood Report

Photometric Filename: HCP-3365963.IES

2D Plane Light Intensity Distribution Curve

Lum. Name: HCP-3365963	Lum. Catalog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/07/17

B Plane Distribution Diagram



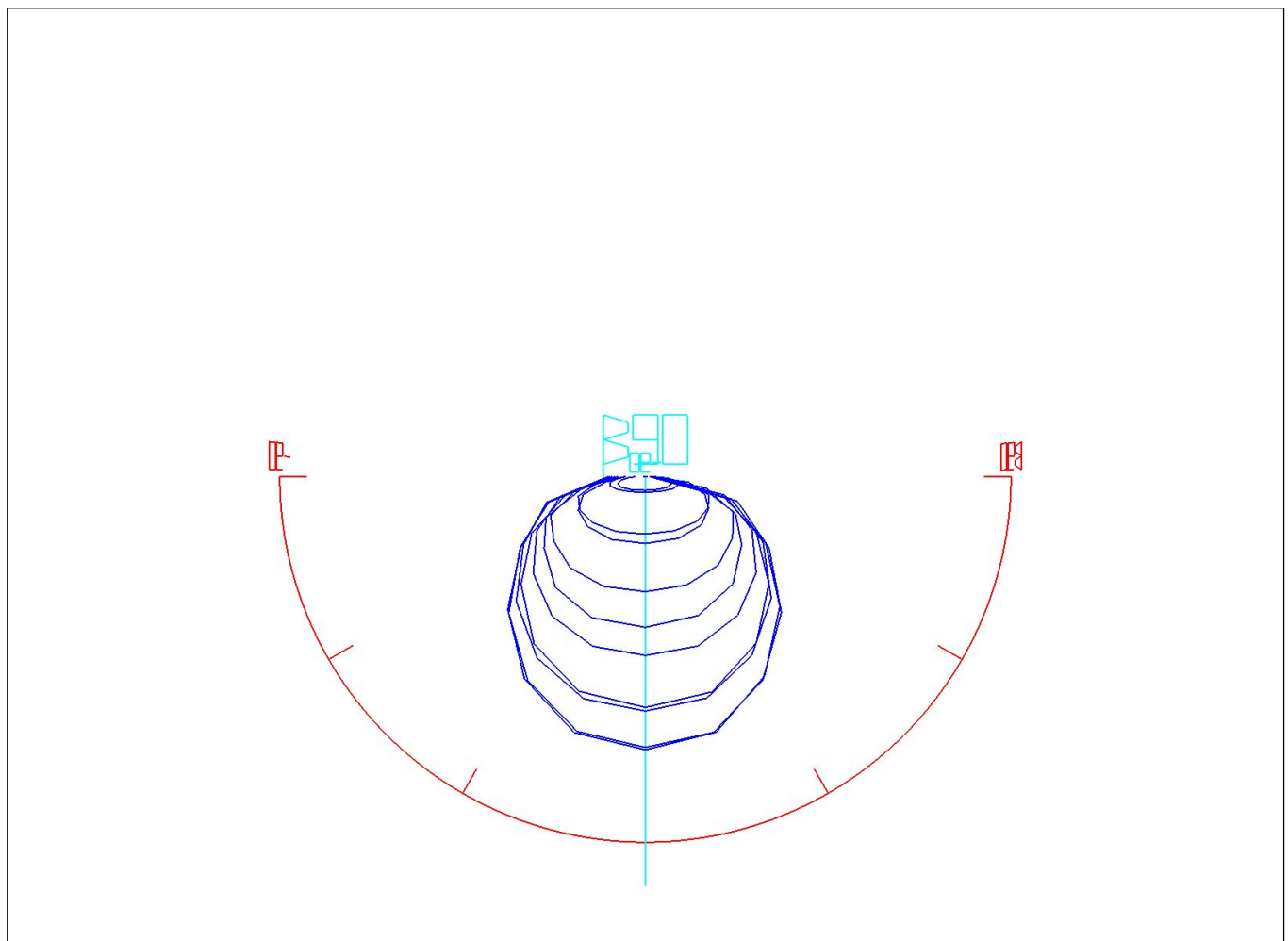
— B Plane [50%MaxAng.] [10%MaxAng.] Unit:cd
 B0.0 : 114.5 166.4

IES Flood Report
Photometric Filename: HCP-3365963.IES

3D Light Intensity Distribution Modal

Lum. Name: HCP-3365963	Lum. Catalog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/07/17

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

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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													
B-75.0	0.05	0.40	1.09	1.90	2.67	3.15	3.25	2.89	2.16	1.33	0.58	0.08	
B-60.0	0.08	0.70	2.04	3.58	4.88	5.69	5.78	5.09	3.81	2.30	0.91	0.12	
B-45.0	0.11	1.01	2.86	4.97	6.72	7.78	7.87	6.93	5.21	3.13	1.24	0.15	
B-30.0	0.14	1.25	3.47	6.12	8.46	9.85	9.94	8.70	6.43	3.78	1.49	0.18	
B-15.0	0.15	1.42	3.98	7.09	9.83	11.45	11.55	10.09	7.42	4.32	1.68	0.20	
B0.0	0.16	1.50	4.22	7.56	10.52	12.25	12.34	10.77	7.89	4.57	1.76	0.21	
B15.0	0.16	1.48	4.19	7.55	10.52	12.26	12.34	10.75	7.86	4.53	1.75	0.21	
B30.0	0.15	1.38	3.90	7.03	9.79	11.42	11.49	10.01	7.32	4.22	1.63	0.19	
B45.0	0.13	1.20	3.34	6.00	8.36	9.75	9.82	8.56	6.27	3.63	1.42	0.17	
B60.0	0.10	0.96	2.69	4.78	6.58	7.65	7.72	6.77	5.02	2.95	1.16	0.14	
B75.0	0.07	0.65	1.87	3.35	4.63	5.41	5.46	4.79	3.57	2.10	0.82	0.10	
B90.0	0.04	0.28	0.76	1.36	1.90	2.24	2.27	1.98	1.47	0.88	0.38	0.06	
Total	1.34	12.22	34.43	61.28	84.86	98.91	99.84	87.34	64.44	37.74	14.82	1.81	

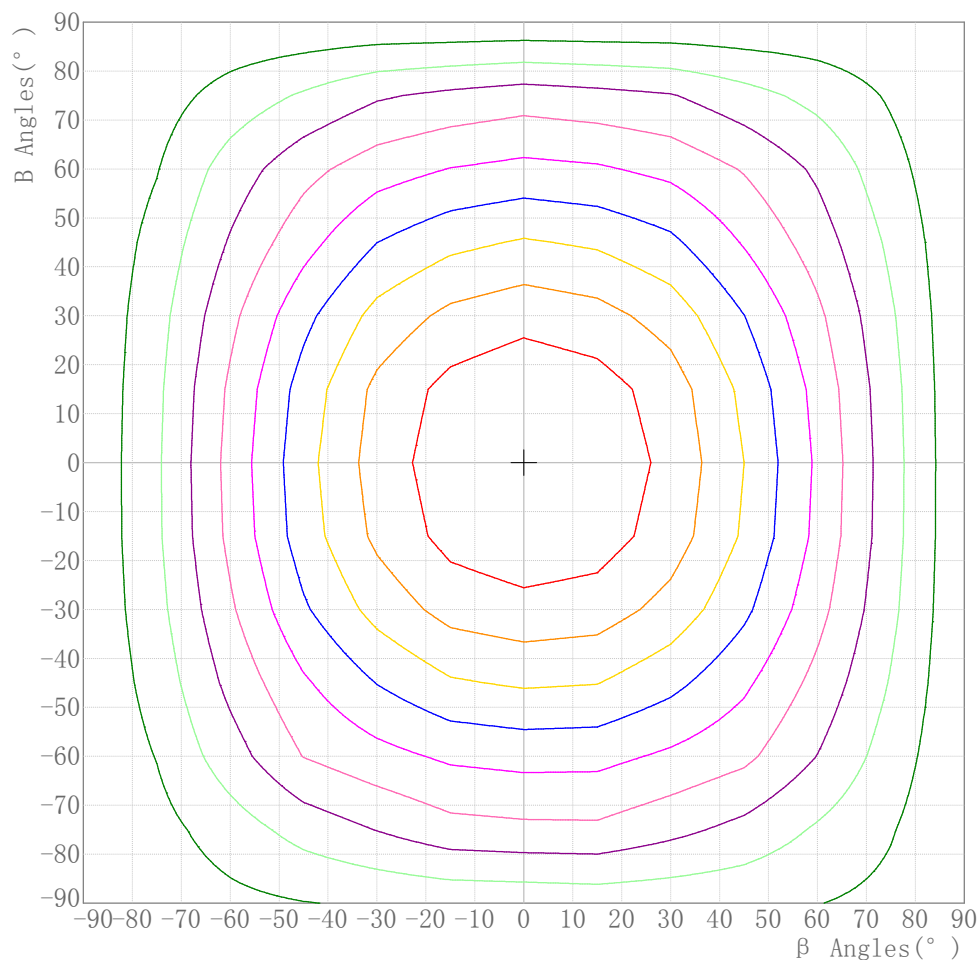
β 90.0	Total
B-90.0	19.55
B-75.0	34.98
B-60.0	47.99
B-45.0	59.81
B-30.0	69.17
B-15.0	73.75
B0.0	73.61
B15.0	68.54
B30.0	58.66
B45.0	46.51
B60.0	32.84
B75.0	13.61
B90.0	
Total	599.01

IES Flood Report
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Rectangle ISO Lighting Intensity Diagram

Lum. Name: HCP-3365963	Lum. Catalog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/07/17

ISO Lighting Intensity Curve



Curves:

[Unit: cd]

[IMax] =187.126

— [IMax*90%]=168.413

— [IMax*80%]=149.701

— [IMax*70%]=130.988

— [IMax*60%]=112.276

— [IMax*50%]=93.563

— [IMax*40%]=74.850

— [IMax*30%]=56.138

— [IMax*20%]=37.425

— [IMax*10%]=18.713

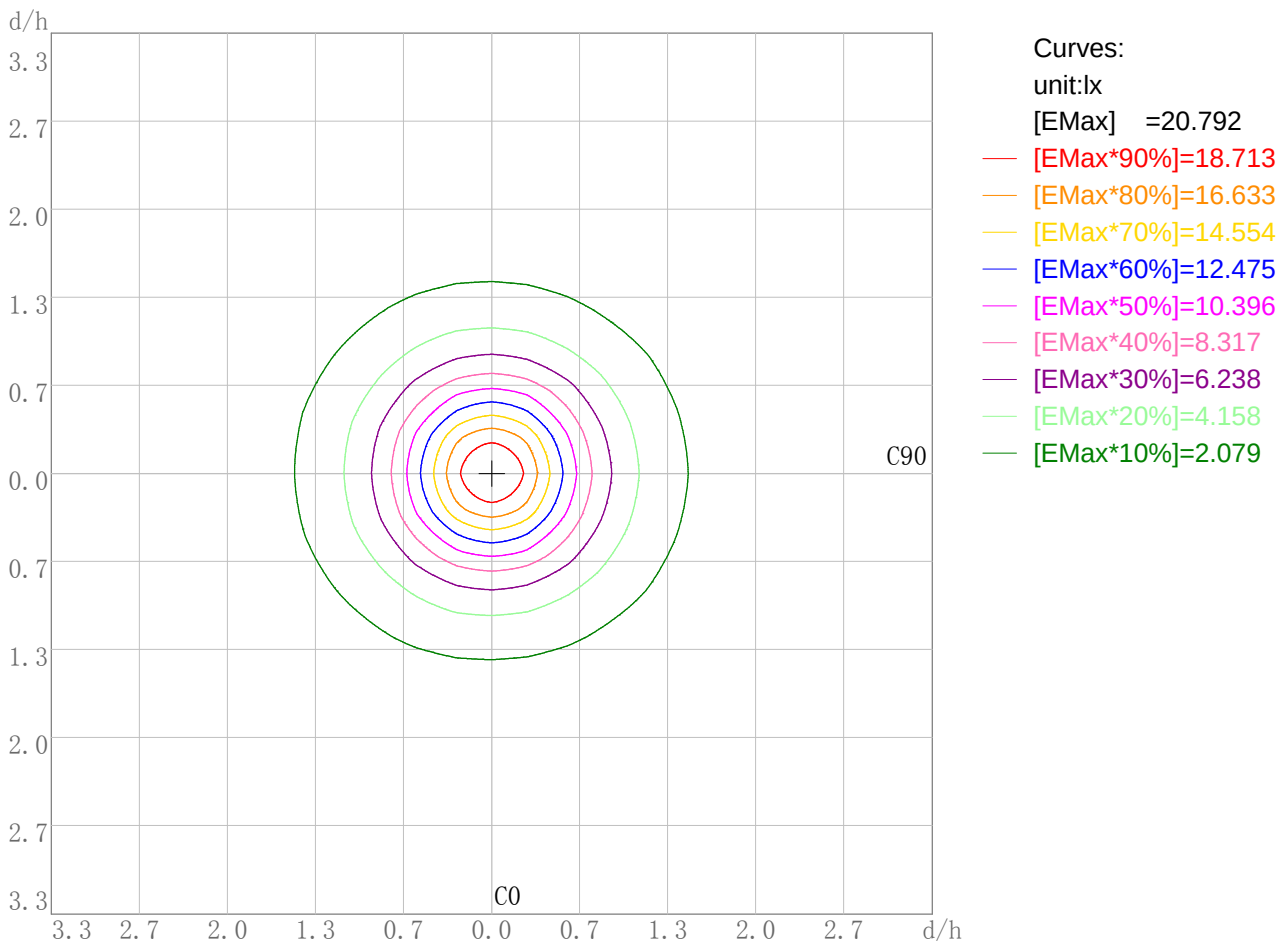
Maximum Light Intensity(cd): 187.13

Maximum Cand.@Angle: H=0.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: HCP-3365963	Lum. Catalog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/07/17

Plane ISO-Illuminance Curve

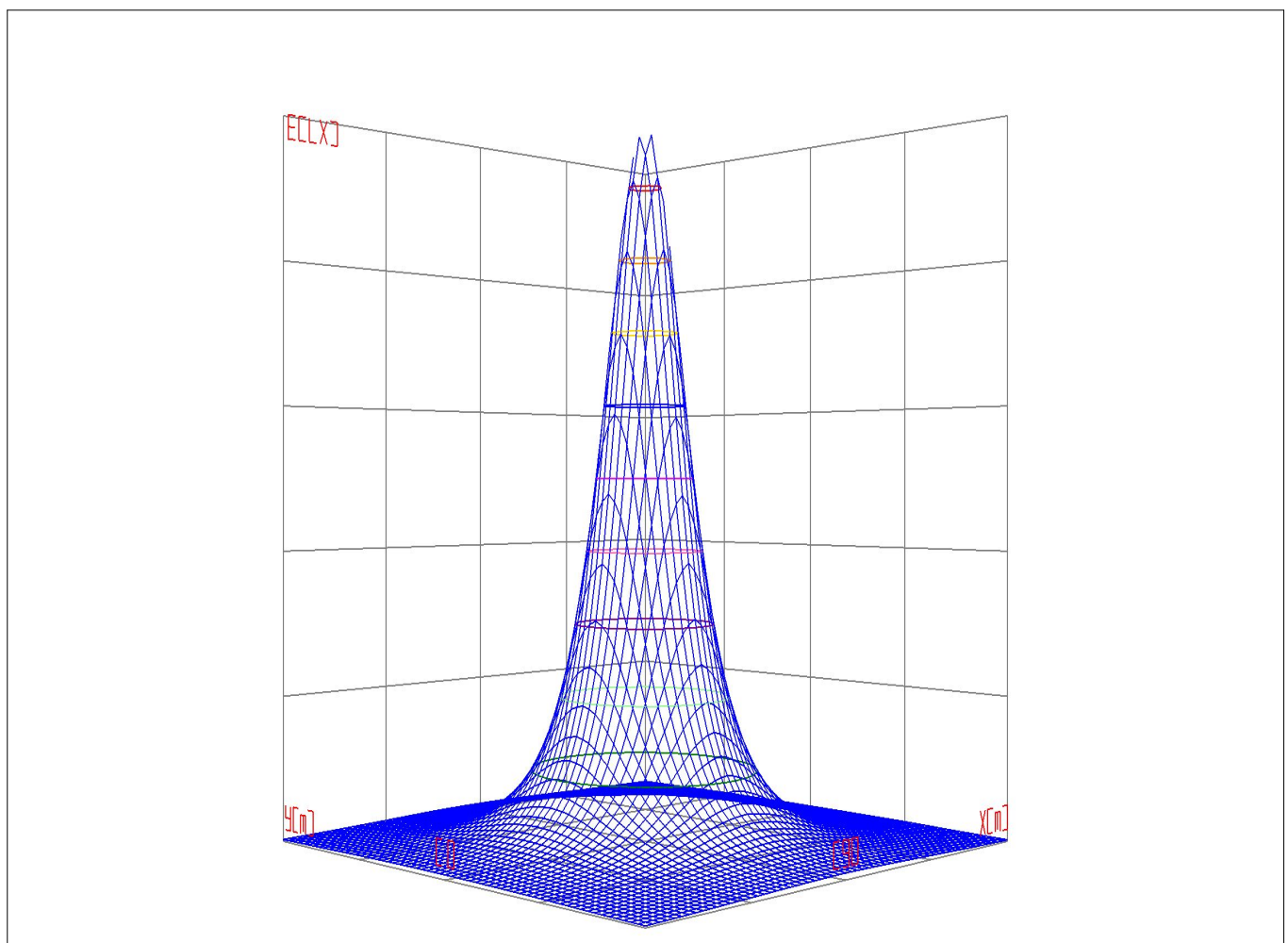


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 20.79
Working Plane Maximum Illuminance Position(d/h): H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: HCP-3365963	Lum. Catalog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/07/17

3D Plane Illuminance Model



Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

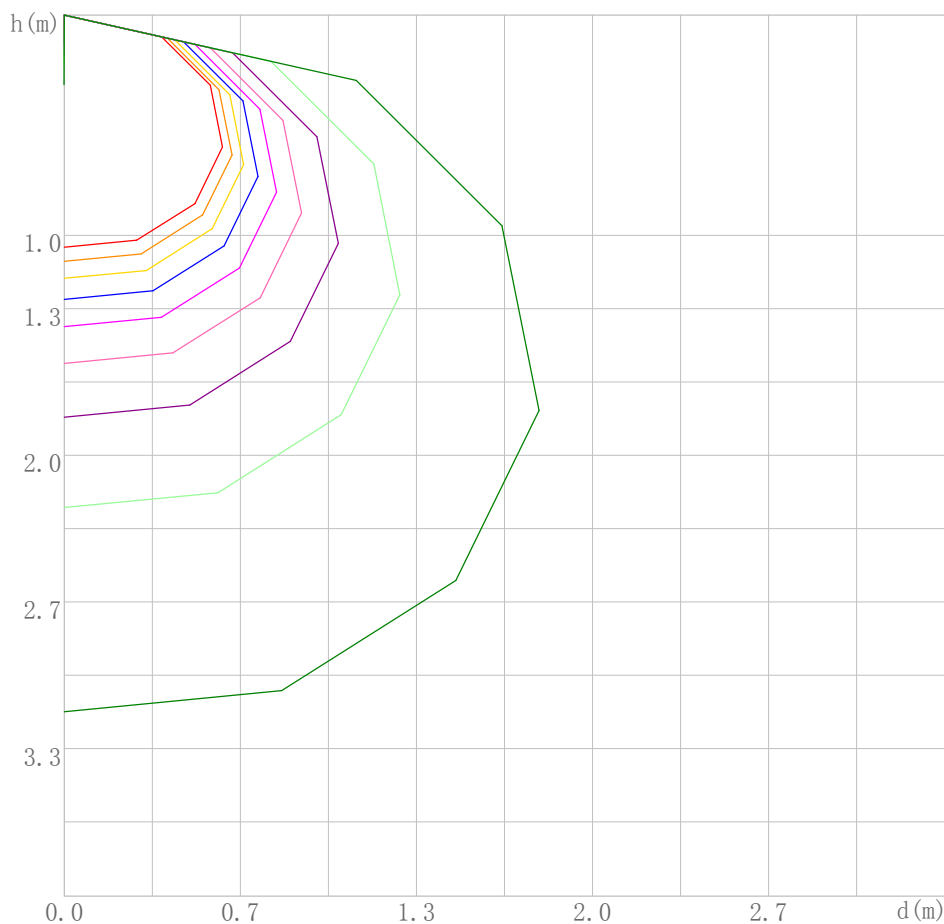
IES Flood Report

Photometric Filename: HCP-3365963.IES

Space ISO Illuminance Diagram

Lum. Name: HCP-3365963	Lum. Catalog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/07/17

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =179.264

— [EMax*90%]=161.338

— [EMax*80%]=143.411

— [EMax*70%]=125.485

— [EMax*60%]=107.558

— [EMax*50%]=89.632

— [EMax*40%]=71.706

— [EMax*30%]=53.779

— [EMax*20%]=35.853

— [EMax*10%]=17.926

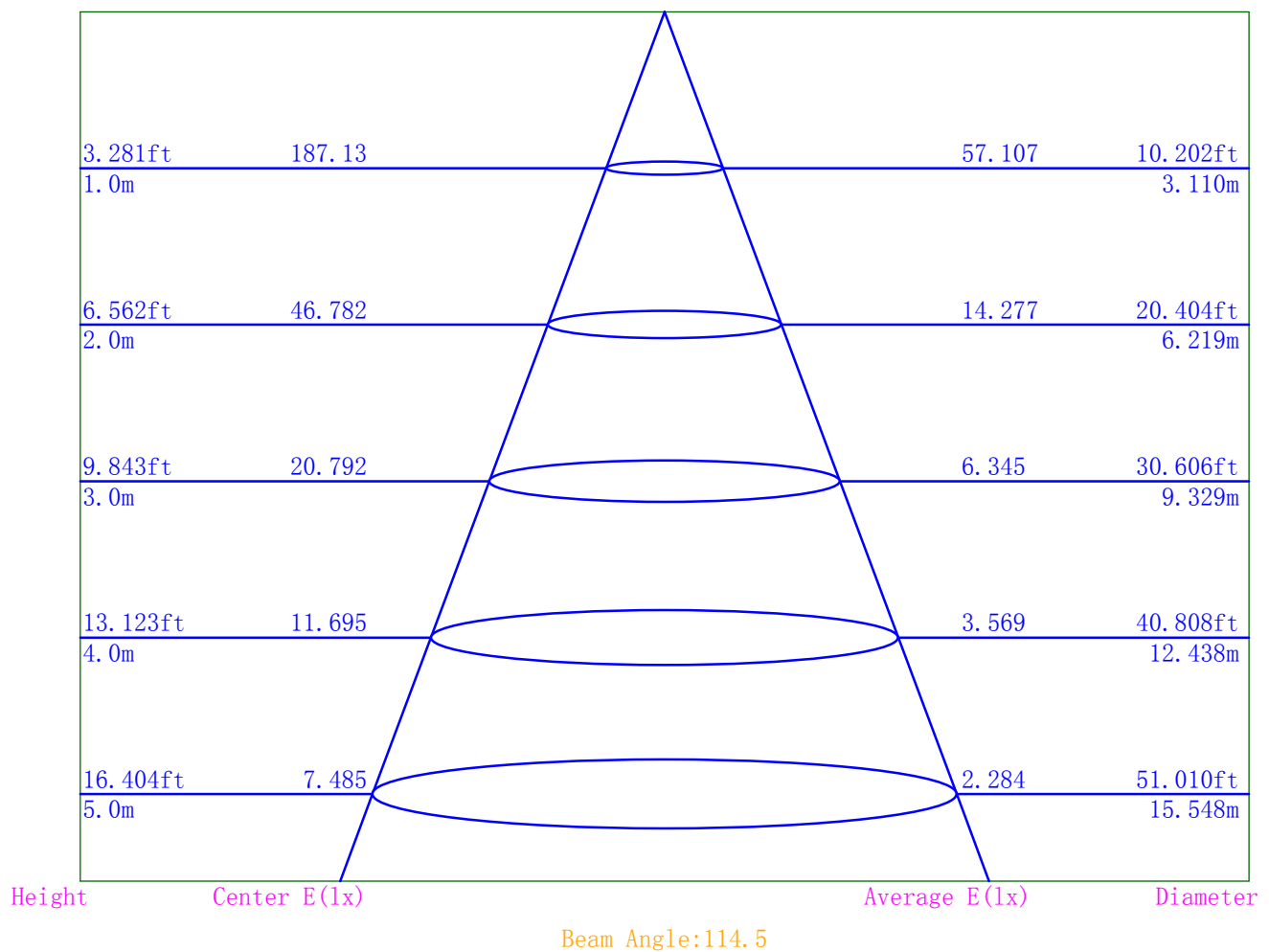
Space Plane Maximum Illuminance and @Angle:179.26lx,0.0deg

Plane Maximum Lighting Intensity and @Angle:187.126cd,0deg

Illuminance-Distance Diagram

Lum. Name: HCP-3365963	Lum. Catalog:	Test ID:
Lamp Name: 2110 3000K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/07/17

Illuminance-Distance Curve



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	1.73	7.29	13.77	18.08	20.96	23.09	24.05	25.77	24.61	23.06	19.20	13.78
B-75.0	1.73	12.16	27.91	44.69	56.69	68.30	70.71	71.23	61.36	50.53	35.10	20.00
B-60.0	1.73	19.39	47.83	75.41	87.28	96.92	100.10	99.45	90.19	79.34	55.74	28.38
B-45.0	1.73	26.20	61.23	90.97	112.83	128.79	133.51	131.59	117.68	97.23	69.03	36.05
B-30.0	1.73	31.39	72.00	109.72	137.63	156.56	162.60	159.27	142.91	116.42	81.21	41.81
B-15.0	1.73	34.19	79.34	121.63	153.86	174.82	182.23	177.54	159.33	128.40	88.94	44.79
B0.0	1.73	34.53	80.91	124.22	158.22	179.26	187.13	181.74	163.50	131.04	90.56	45.22
B15.0	1.73	33.24	78.04	120.06	154.24	174.54	182.83	176.94	159.13	126.49	87.56	43.75
B30.0	1.73	30.16	69.99	106.91	137.09	154.44	162.19	156.54	141.63	112.56	78.86	39.88
B45.0	1.73	24.86	57.89	86.76	112.12	125.95	132.86	128.10	116.24	91.98	65.66	33.53
B60.0	1.73	17.77	45.69	68.71	85.01	94.06	98.69	95.86	88.40	73.41	52.73	25.02
B75.0	1.73	10.30	25.89	39.71	53.70	60.57	65.87	62.09	57.40	44.33	31.57	16.50
B90.0	1.73	2.74	3.68	3.37	3.37	2.82	3.05	2.86	3.37	3.67	4.75	4.65

V/H	β 90.0
B-90.0	1.78
B-75.0	1.78
B-60.0	1.78
B-45.0	1.78
B-30.0	1.78
B-15.0	1.78
B0.0	1.78
B15.0	1.78
B30.0	1.78
B45.0	1.78
B60.0	1.78
B75.0	1.78
B90.0	1.78