

IES Flood Report

Photometric Filename: HCP-3326192.IES

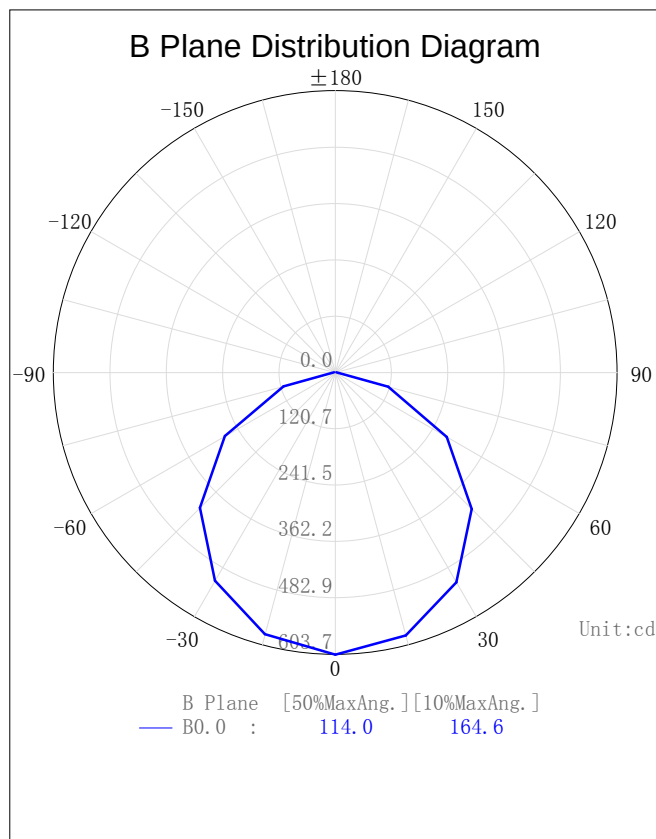
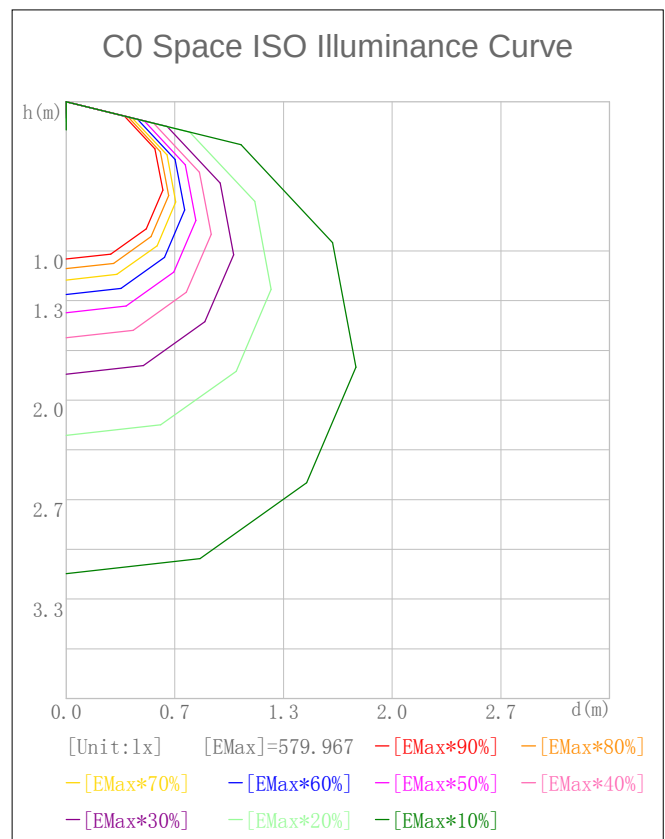
Flood Luminaire Photometric Data

Description Information

Luminary Name: HCP-3326192	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	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. (°C):
		Humidity(%):

Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 1973.600	Luminary Flux(lm): 1753.101	Beam Lumens(lm): 1266.91
Rated Power(W):	Luminary Efficiency: 88.83%	Beam Efficiency(%): 72.27
Rated Voltage(V):	Luminary EER(lm/W): 83.085	Field Lumens(lm): 1714.51
Tested Power(W): 21.100	Max. Candela(cd): 603.656	Field Efficiency(%): 97.80
Lamps' Inside: 1	Max Cand@Ang. (°): B=0.0 β=0.0	ErP Φuse(120°): 1365.788lm
Tested Electrics(V, A, pf): 24.0, 0.880, 0.000	Beam Angle(50%)(V, H): 114.2(°), 114.0(°)	IRF(%): 108.663
Lamp Size(W*L*H): 0.006m*0.100m*0.010m	Field Angle(10%)(V, H): 167.3(°), 164.6(°)	



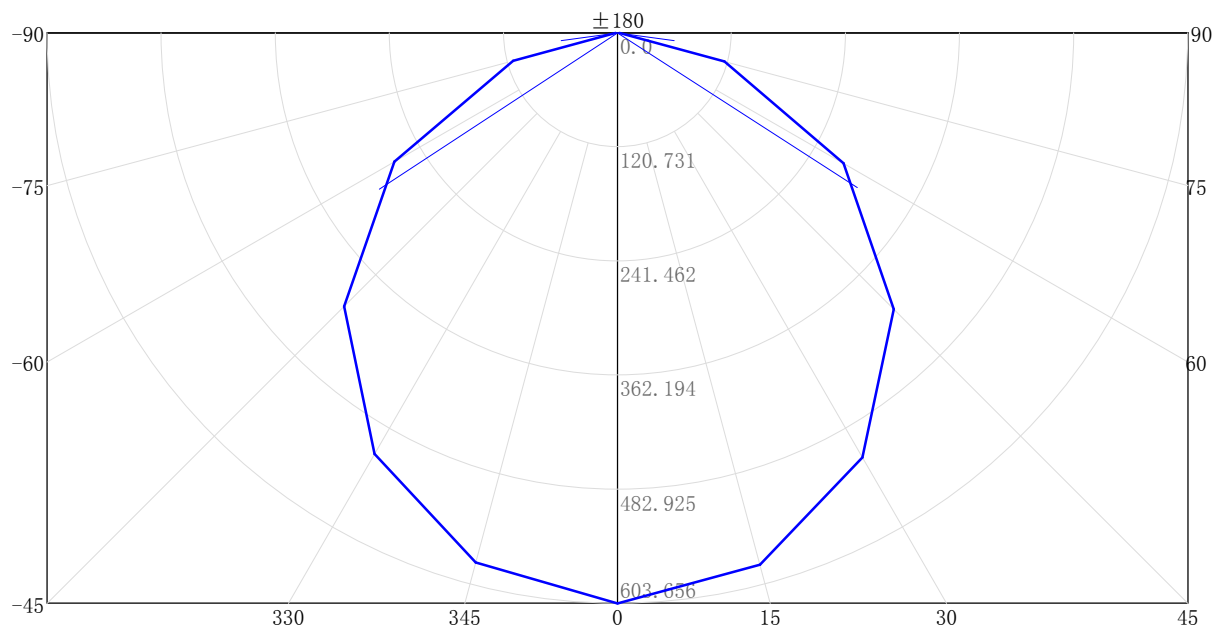
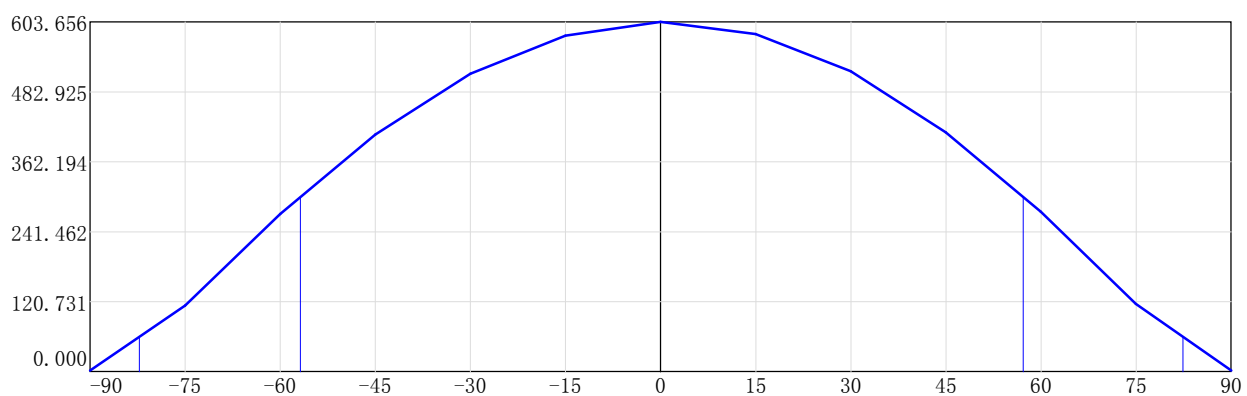
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2D Plane Light Intensity Distribution Curve

Lum. Name: HCP-3326192	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

B Plane Distribution Diagram



— B Plane
 B0.0 : [50%MaxAng.] [10%MaxAng.] Unit:cd
 114.0 164.6

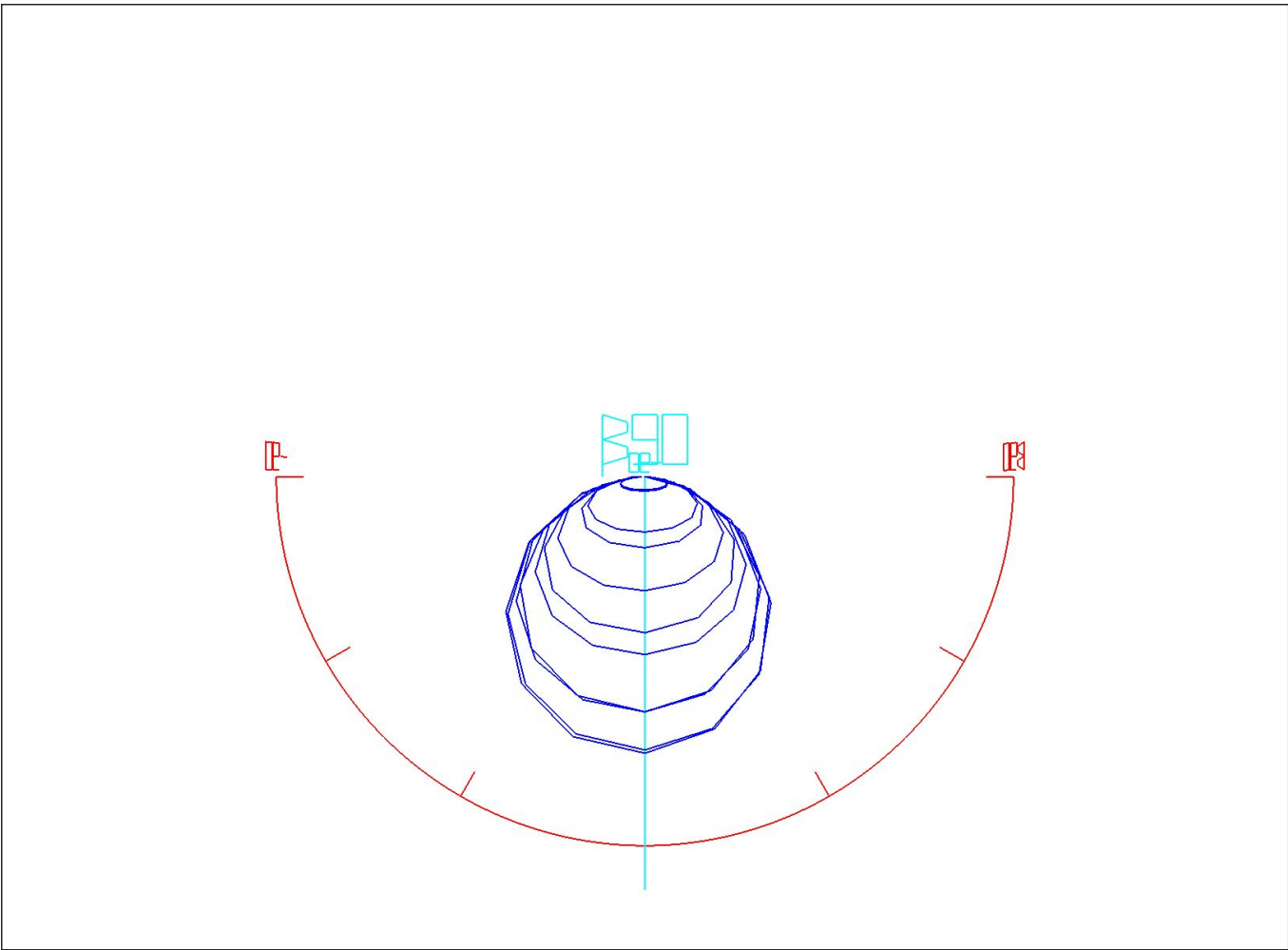
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3D Light Intensity Distribution Modal

Lum. Name: HCP-3326192	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	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

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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	0.08	0.66	1.92	3.49	4.94	5.81	5.87	5.10	3.68	2.09	0.77	0.10	
B-60.0	0.17	1.65	4.89	8.92	12.62	14.79	14.88	12.85	9.20	5.11	1.78	0.19	
B-45.0	0.29	2.82	8.23	14.86	20.77	24.22	24.31	21.01	15.14	8.46	2.95	0.31	
B-30.0	0.39	3.87	11.10	19.79	27.46	31.93	32.02	27.70	20.06	11.31	3.98	0.41	
B-15.0	0.47	4.62	13.08	23.16	32.02	37.19	37.28	32.25	23.41	13.26	4.72	0.49	
B0.0	0.51	4.98	14.00	24.72	34.13	39.62	39.71	34.35	24.96	14.16	5.07	0.52	
B15.0	0.50	4.93	13.83	24.44	33.72	39.15	39.23	33.93	24.66	13.98	5.01	0.52	
B30.0	0.45	4.46	12.57	22.31	30.82	35.79	35.86	31.01	22.52	12.72	4.54	0.47	
B45.0	0.36	3.61	10.30	18.44	25.55	29.70	29.77	25.71	18.62	10.45	3.70	0.38	
B60.0	0.25	2.50	7.22	13.12	18.31	21.35	21.41	18.45	13.29	7.37	2.59	0.27	
B75.0	0.14	1.34	3.87	7.11	10.00	11.72	11.77	10.13	7.27	4.01	1.43	0.15	
B90.0	0.05	0.41	1.14	2.09	2.93	3.45	3.47	2.99	2.16	1.21	0.45	0.06	
Total	3.68	35.85	102.15	182.45	253.27	294.70	295.58	255.48	184.96	104.15	36.99	3.86	

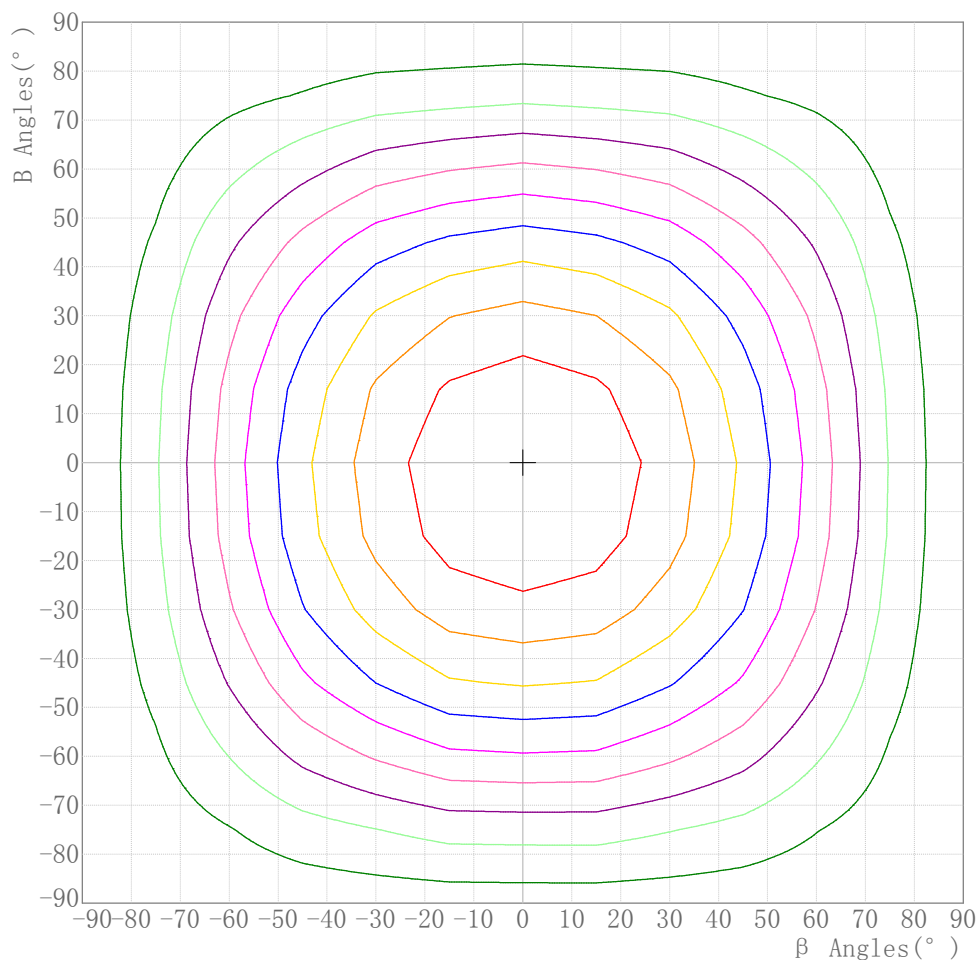
β 90.0	Total
B-90.0	34.51
B-75.0	87.06
B-60.0	143.37
B-45.0	190.03
B-30.0	221.94
B-15.0	236.72
B0.0	233.89
B15.0	213.52
B30.0	176.59
B45.0	126.13
B60.0	68.93
B75.0	20.41
B90.0	1753.10
Total	

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Rectangle ISO Lighting Intensity Diagram

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ISO Lighting Intensity Curve



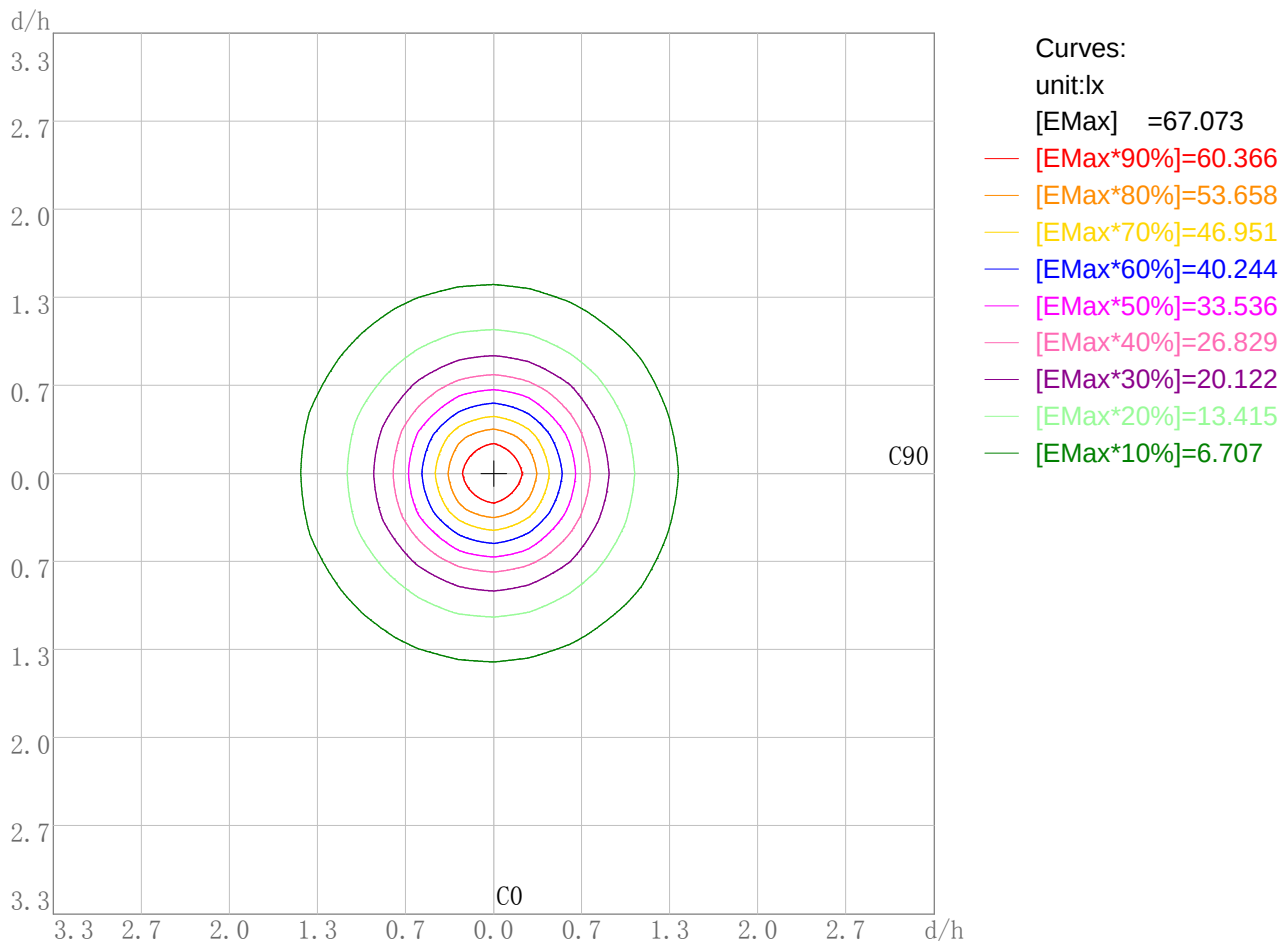
Curves:	
[Unit: cd]	
[IMax] =603.656	
—	[IMax*90%]=543.290
—	[IMax*80%]=482.925
—	[IMax*70%]=422.559
—	[IMax*60%]=362.194
—	[IMax*50%]=301.828
—	[IMax*40%]=241.462
—	[IMax*30%]=181.097
—	[IMax*20%]=120.731
—	[IMax*10%]=60.366

Maximum Light Intensity(cd): 603.66
Maximum Cand.@Angle: H=0.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: HCP-3326192	Lum. Catalog:	Test ID:
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Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

Plane ISO-Illuminance Curve

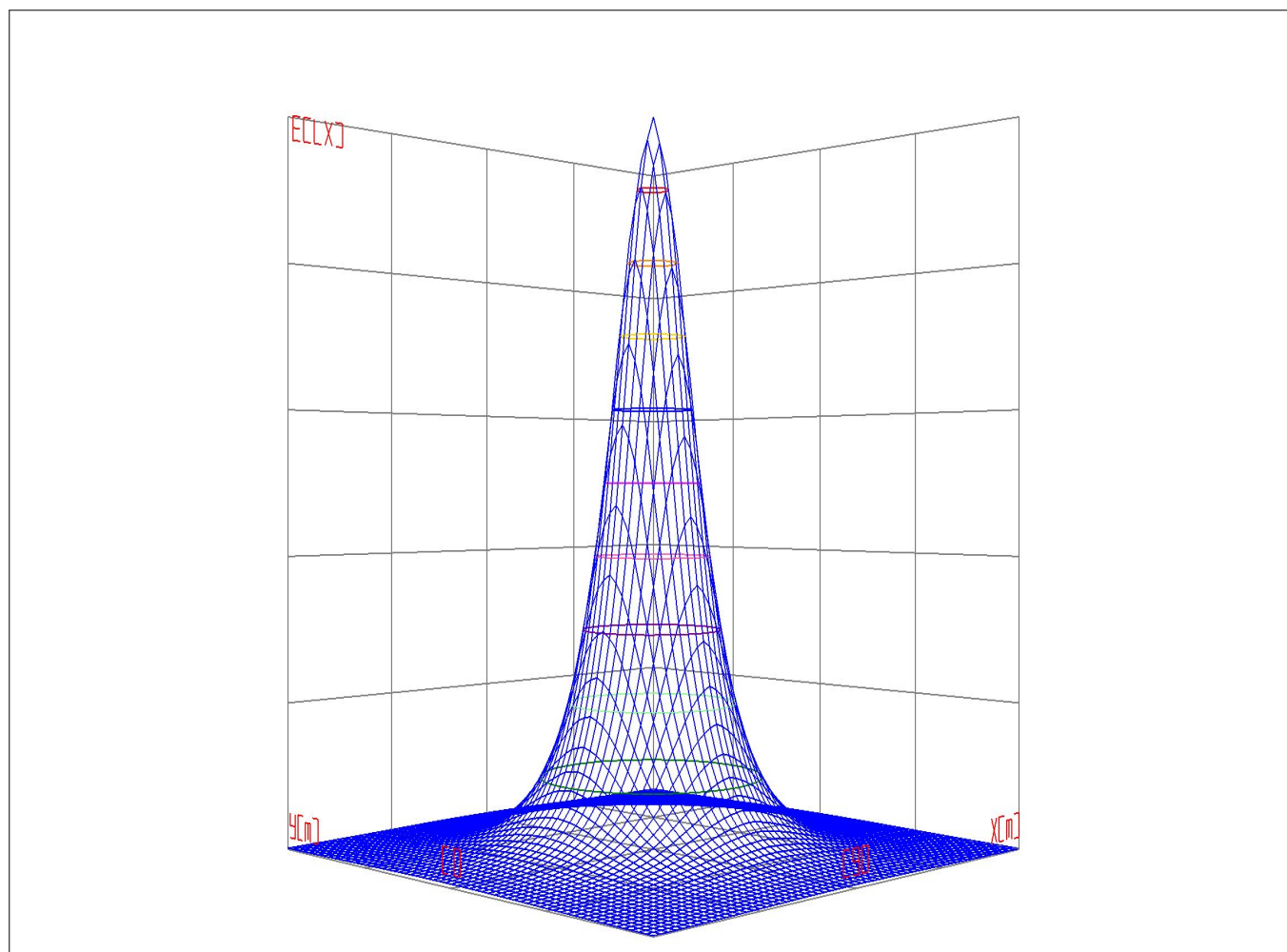


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 67.07
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: HCP-3326192	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

3D Plane Illuminance Model

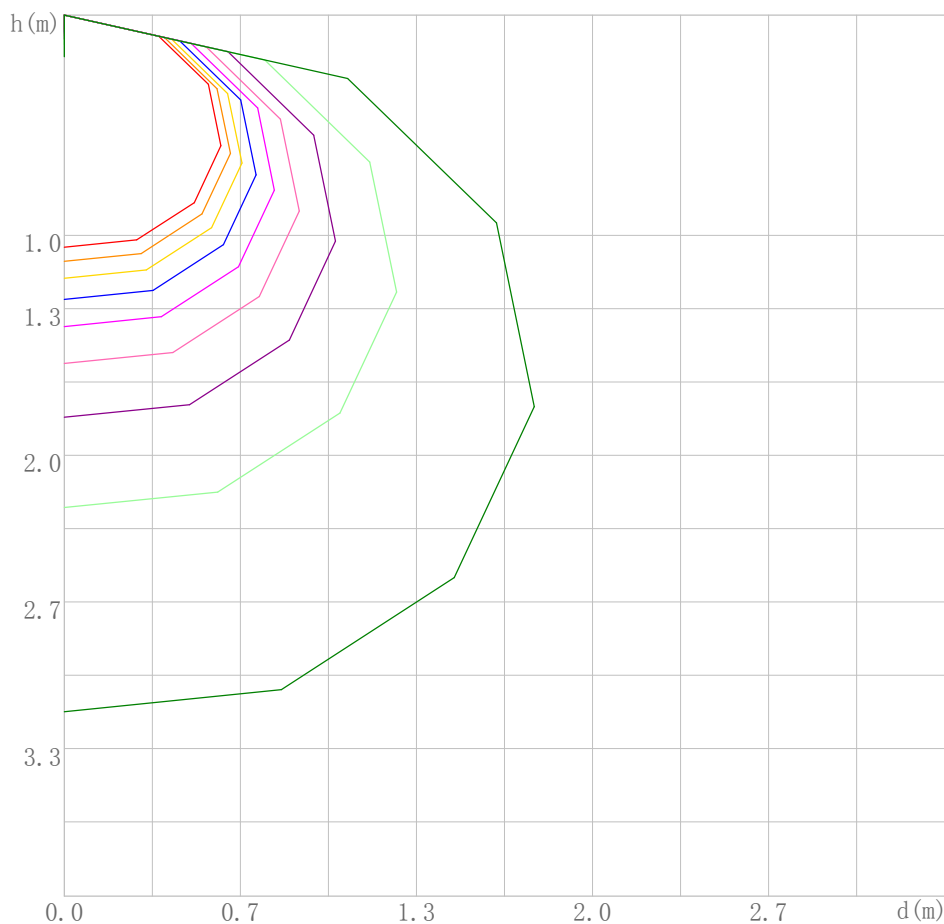


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: HCP-3326192	Lum. Catalog:	Test ID:
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Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

Space ISO Illuminance Curve

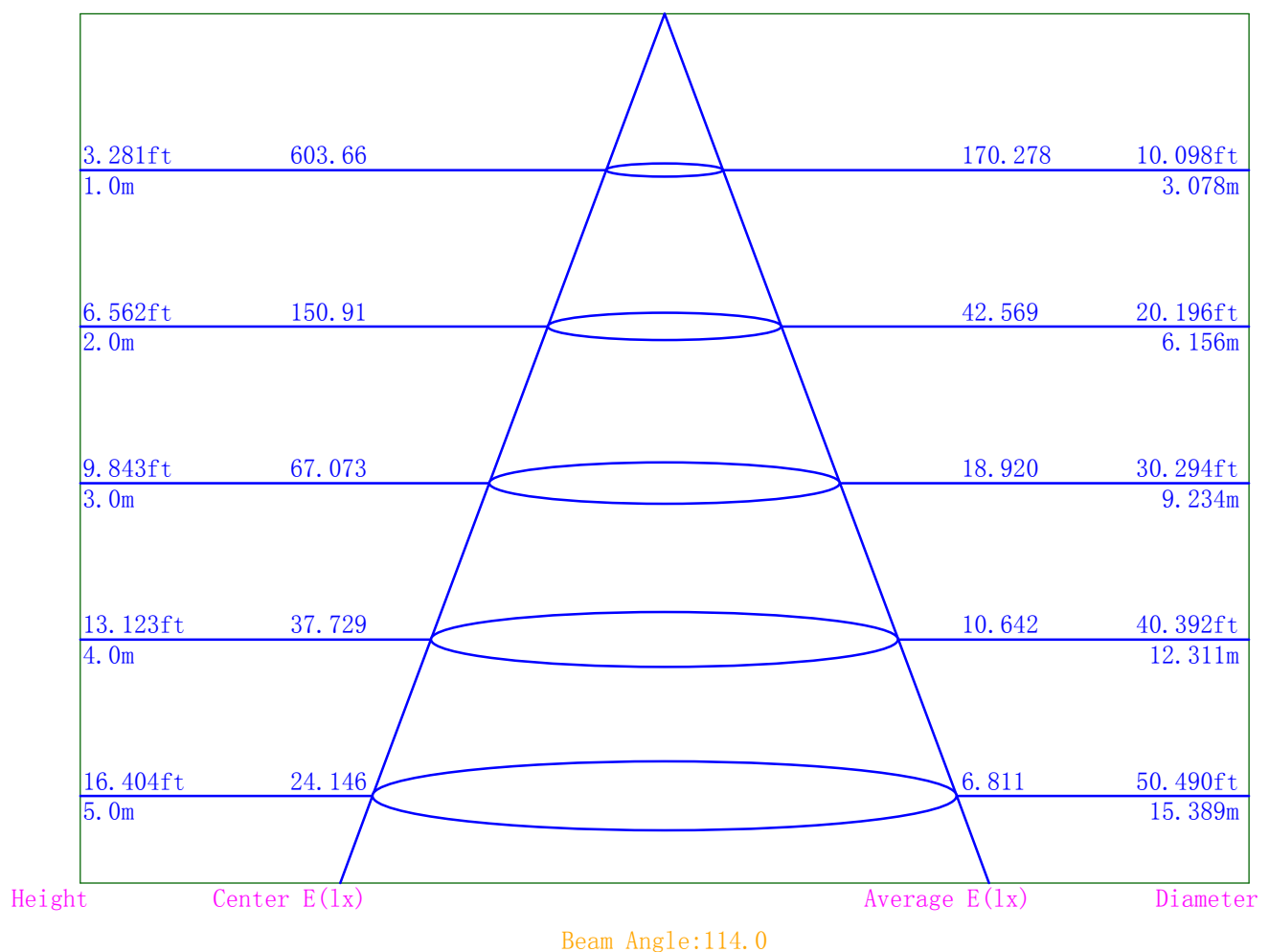


Space Plane Maximum Illuminance and @Angle:579.97lx,0.0deg
 Plane Maximum Lighting Intensity and @Angle:603.656cd,0deg

Illuminance-Distance Diagram

Lum. Name: HCP-3326192	Lum. Catalog:	Test ID:
Lamp Name: 2110 2700K	Lamp Catalog:	Test Lab:
Manufacture: HAVIT COMMERCIAL	Test Machine: GON-2000	Test Date: 2019/05/21

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	2. 06	7. 04	13. 38	19. 54	23. 63	26. 69	27. 81	27. 87	25. 73	22. 10	16. 71	10. 37
B-75. 0	2. 06	23. 86	57. 32	94. 58	119. 42	143. 23	145. 10	145. 73	123. 68	99. 94	62. 44	28. 30
B-60. 0	2. 06	49. 41	121. 43	196. 35	247. 90	289. 13	295. 91	291. 91	252. 66	202. 07	127. 08	53. 82
B-45. 0	2. 06	75. 51	184. 73	289. 22	362. 56	416. 48	428. 14	419. 26	367. 38	294. 62	189. 88	79. 76
B-30. 0	2. 06	97. 35	234. 51	358. 88	449. 19	511. 54	528. 50	514. 34	453. 99	363. 84	238. 90	100. 92
B-15. 0	2. 06	110. 87	264. 31	399. 55	500. 62	567. 06	588. 08	569. 69	505. 15	404. 02	268. 18	113. 90
B0. 0	2. 06	114. 36	272. 48	409. 29	514. 29	579. 97	603. 66	582. 57	518. 55	413. 38	276. 06	117. 12
B15. 0	2. 06	107. 68	258. 90	388. 71	490. 69	551. 43	575. 89	553. 76	494. 65	392. 47	262. 36	110. 44
B30. 0	2. 06	91. 18	223. 72	337. 55	429. 28	481. 08	504. 39	483. 16	432. 80	341. 17	227. 22	94. 20
B45. 0	2. 06	67. 52	169. 66	259. 27	334. 27	373. 85	394. 01	375. 71	337. 17	262. 78	173. 29	70. 80
B60. 0	2. 06	40. 92	104. 14	161. 37	213. 07	238. 50	253. 83	240. 12	215. 79	164. 91	108. 08	44. 33
B75. 0	2. 06	16. 73	42. 49	63. 75	86. 49	95. 28	104. 33	96. 58	88. 99	66. 80	45. 78	20. 05
B90. 0	2. 06	1. 82	1. 85	1. 88	1. 92	1. 90	1. 89	1. 88	1. 89	1. 87	1. 83	1. 83
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											