

## Indoor Luminaire Photometric Data

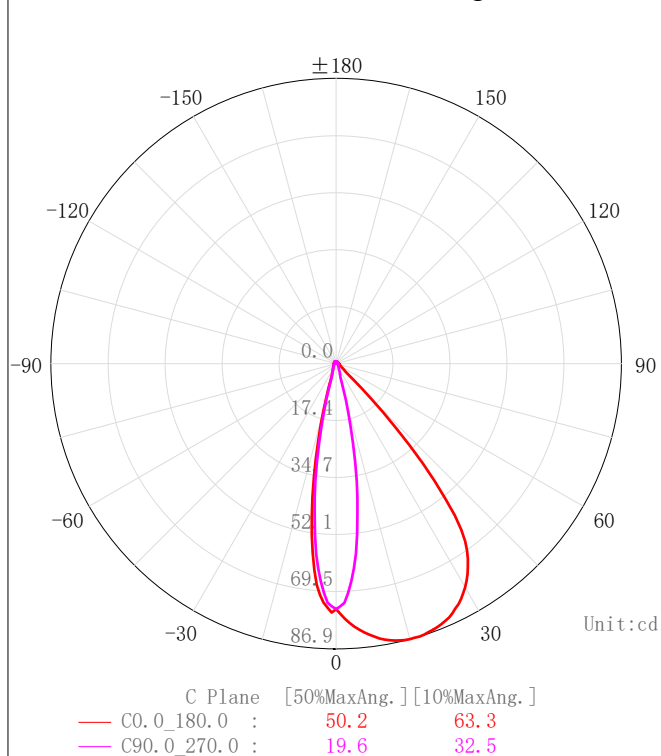
### Description Information

Luminary Name: HCP-22X2332+HCP-22X4332 3000K RA80	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2020/06/24
Manufacture: Havit Commercial	Shld. Ang(°):	Test Machine:GON-2000
Test Lab: Quality Department	Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H): 0.050m*0.050m*0.072m	Lum. Area (m2): 0.006	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=1.0	Temp. (°C): 25
		Humidity(%): 50.0

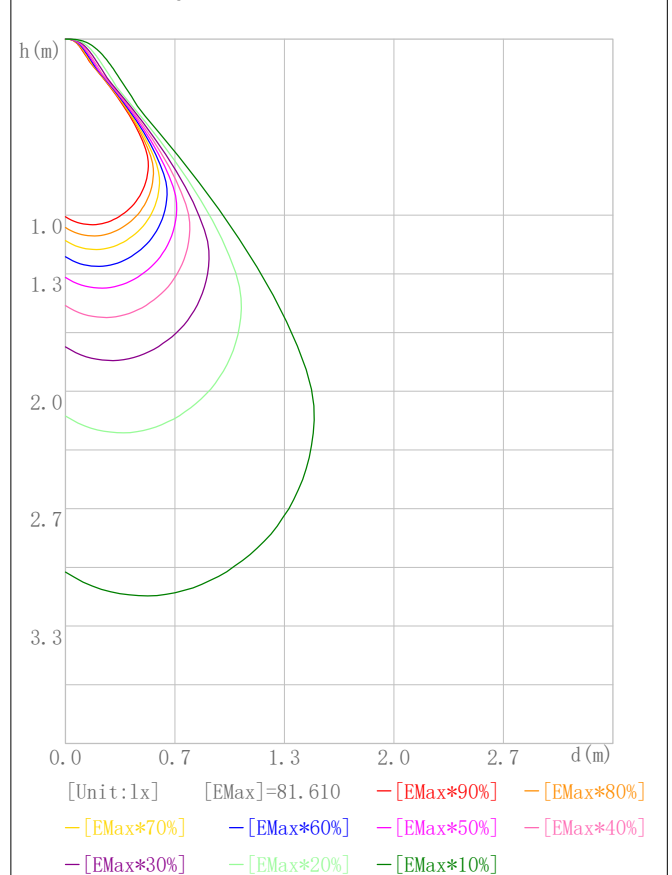
### Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 48.300	Luminary Flux(lm): 48.305	Field Angle(10%Imax): 63.3(°)
Rated Power(W):	Luminary Efficiency: 100.01%	Down Lumens&Percent: 44.342lm 91.80%
Rated Voltage(V):	Luminary EER(lm/W): 16.651	Up Lumens&Percent: 3.963lm 8.20%
Tested Power(W): 2.901	Max. Candela(cd): 86.871	S/MH: C0_a180=0.890 C90_270=0.335
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=17.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf): 240.2, 0.014, 0.808	Beam Angle(50%Imax): 50.2(°)	ErP Φ use(90°): 39.630lm
Lamp Size (W*L*H): 0.050m*0.050m*0.072m	Left=-9.6°, Right=40.5°	IRF(%): 244.821

#### C Plane Distribution Diagram



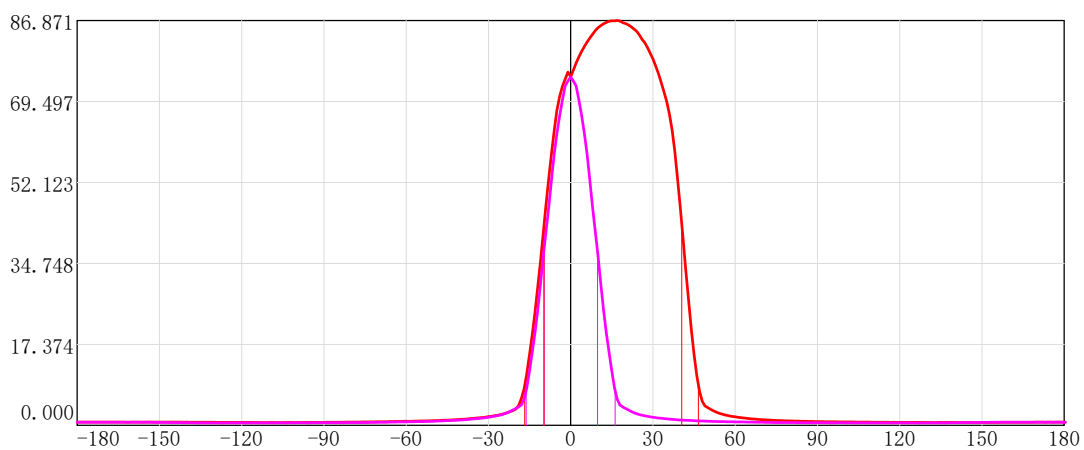
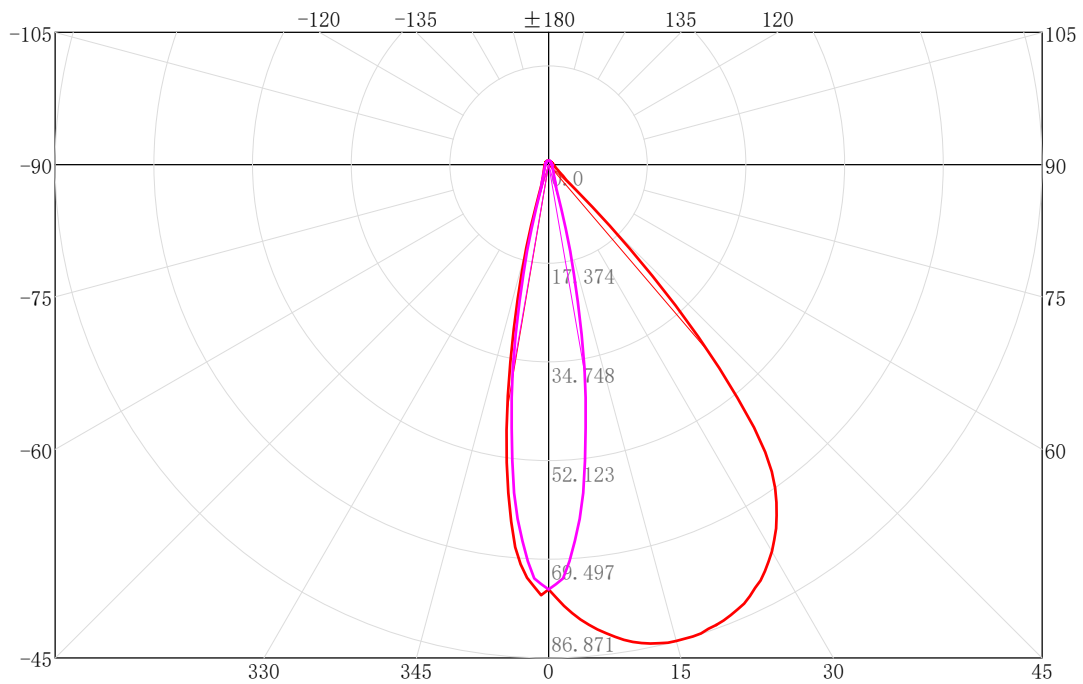
#### C0 Space ISO Illuminance Curve



## 2D Plane Light Intensity Distribution Curve

Lum. Name: HCP-22X2332+HCP-22X4332 3000K RA80	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/06/24

C Plane Distribution Diagram



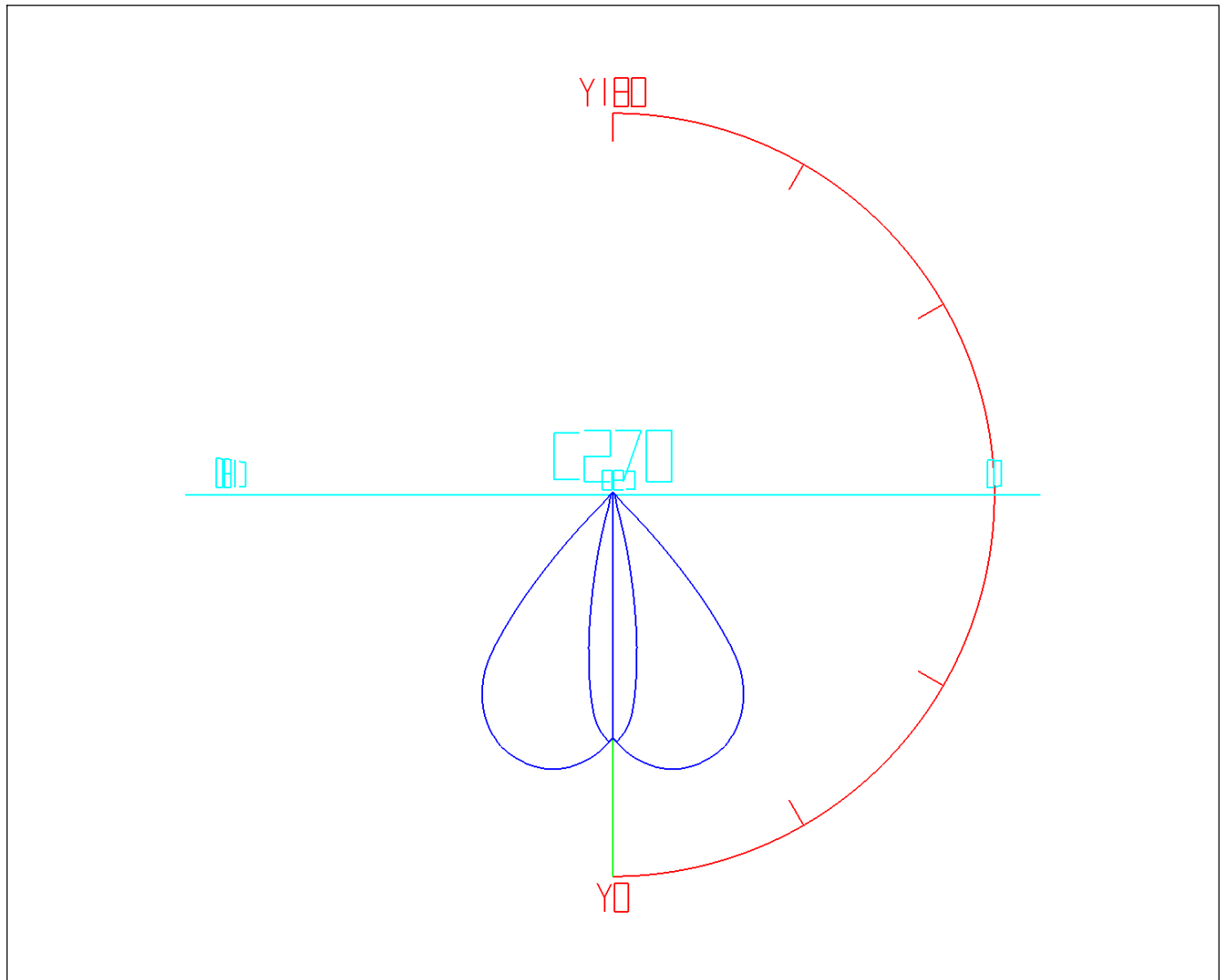
C Plane	[50%MaxAng.]	[10%MaxAng.]
C0.0_180.0 :	50.2	63.3
C90.0_270.0 :	19.6	32.5

Unit:cd

### 3D Light Intensity Distribution Modal

Lum. Name: HCP-22X2332+HCP-22X4332 3000K RA80	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/06/24

### 3D Light Intensity Distribution Modal



Curves: 3D Model — Fixture — Vert. HUD — Hori. HUD —  
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

## Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	0.07	0.07	0.15	0.15	47.0-48.0	0.19	40.37	0.39	83.59
1.0-2.0	0.21	0.29	0.44	0.59	48.0-49.0	0.16	40.53	0.32	83.91
2.0-3.0	0.35	0.64	0.73	1.32	49.0-50.0	0.14	40.67	0.30	84.21
3.0-4.0	0.48	1.12	1.00	2.32	50.0-51.0	0.14	40.81	0.28	84.49
4.0-5.0	0.60	1.72	1.24	3.56	51.0-52.0	0.13	40.94	0.27	84.76
5.0-6.0	0.70	2.42	1.46	5.02	52.0-53.0	0.13	41.07	0.26	85.02
6.0-7.0	0.79	3.21	1.63	6.65	53.0-54.0	0.12	41.19	0.25	85.27
7.0-8.0	0.85	4.07	1.77	8.42	54.0-55.0	0.12	41.30	0.24	85.51
8.0-9.0	0.90	4.97	1.87	10.29	55.0-56.0	0.11	41.41	0.23	85.74
9.0-10.0	0.94	5.91	1.94	12.23	56.0-57.0	0.11	41.52	0.23	85.97
10.0-11.0	0.95	6.86	1.97	14.20	57.0-58.0	0.11	41.63	0.22	86.19
11.0-12.0	0.95	7.81	1.96	16.16	58.0-59.0	0.10	41.73	0.22	86.40
12.0-13.0	0.94	8.74	1.94	18.10	59.0-60.0	0.10	41.84	0.21	86.62
13.0-14.0	0.92	9.66	1.91	20.01	60.0-61.0	0.10	41.94	0.21	86.82
14.0-15.0	0.90	10.57	1.87	21.88	61.0-62.0	0.10	42.03	0.20	87.03
15.0-16.0	0.88	11.44	1.82	23.69	62.0-63.0	0.10	42.13	0.20	87.23
16.0-17.0	0.86	12.30	1.77	25.47	63.0-64.0	0.10	42.23	0.20	87.43
17.0-18.0	0.85	13.15	1.77	27.23	64.0-65.0	0.09	42.32	0.19	87.62
18.0-19.0	0.87	14.02	1.80	29.04	65.0-66.0	0.09	42.41	0.19	87.81
19.0-20.0	0.90	14.92	1.85	30.89	66.0-67.0	0.09	42.50	0.19	88.00
20.0-21.0	0.93	15.85	1.92	32.81	67.0-68.0	0.09	42.59	0.19	88.18
21.0-22.0	0.96	16.80	1.98	34.79	68.0-69.0	0.09	42.68	0.18	88.37
22.0-23.0	0.99	17.79	2.04	36.83	69.0-70.0	0.09	42.77	0.18	88.55
23.0-24.0	1.01	18.80	2.10	38.93	70.0-71.0	0.09	42.86	0.18	88.73
24.0-25.0	1.04	19.84	2.16	41.09	71.0-72.0	0.08	42.94	0.18	88.90
25.0-26.0	1.07	20.91	2.21	43.29	72.0-73.0	0.08	43.02	0.17	89.08
26.0-27.0	1.09	22.00	2.25	45.55	73.0-74.0	0.08	43.11	0.17	89.25
27.0-28.0	1.11	23.11	2.30	47.84	74.0-75.0	0.08	43.19	0.17	89.42
28.0-29.0	1.13	24.24	2.34	50.18	75.0-76.0	0.08	43.27	0.17	89.59
29.0-30.0	1.14	25.38	2.37	52.55	76.0-77.0	0.08	43.35	0.17	89.75
30.0-31.0	1.16	26.54	2.39	54.94	77.0-78.0	0.08	43.43	0.17	89.92
31.0-32.0	1.17	27.70	2.41	57.36	78.0-79.0	0.08	43.51	0.16	90.08
32.0-33.0	1.17	28.87	2.42	59.78	79.0-80.0	0.08	43.59	0.16	90.25
33.0-34.0	1.17	30.04	2.42	62.20	80.0-81.0	0.08	43.67	0.16	90.41
34.0-35.0	1.17	31.21	2.41	64.61	81.0-82.0	0.08	43.74	0.16	90.57
35.0-36.0	1.15	32.36	2.39	67.00	82.0-83.0	0.08	43.82	0.16	90.73
36.0-37.0	1.13	33.49	2.34	69.34	83.0-84.0	0.08	43.90	0.16	90.88
37.0-38.0	1.09	34.58	2.25	71.58	84.0-85.0	0.08	43.97	0.16	91.04
38.0-39.0	1.02	35.59	2.11	73.69	85.0-86.0	0.08	44.05	0.16	91.19
39.0-40.0	0.93	36.53	1.93	75.62	86.0-87.0	0.07	44.12	0.15	91.35
40.0-41.0	0.84	37.36	1.74	77.36	87.0-88.0	0.07	44.20	0.15	91.50
41.0-42.0	0.73	38.10	1.51	78.87	88.0-89.0	0.07	44.27	0.15	91.65
42.0-43.0	0.62	38.72	1.28	80.16	89.0-90.0	0.07	44.34	0.15	91.80
43.0-44.0	0.51	39.22	1.05	81.21	90.0-91.0	0.07	44.41	0.15	91.95
44.0-45.0	0.41	39.63	0.84	82.05	91.0-92.0	0.07	44.49	0.15	92.10
45.0-46.0	0.32	39.95	0.65	82.70	92.0-93.0	0.07	44.56	0.15	92.25
46.0-47.0	0.24	40.19	0.50	83.20	93.0-94.0	0.07	44.63	0.15	92.40

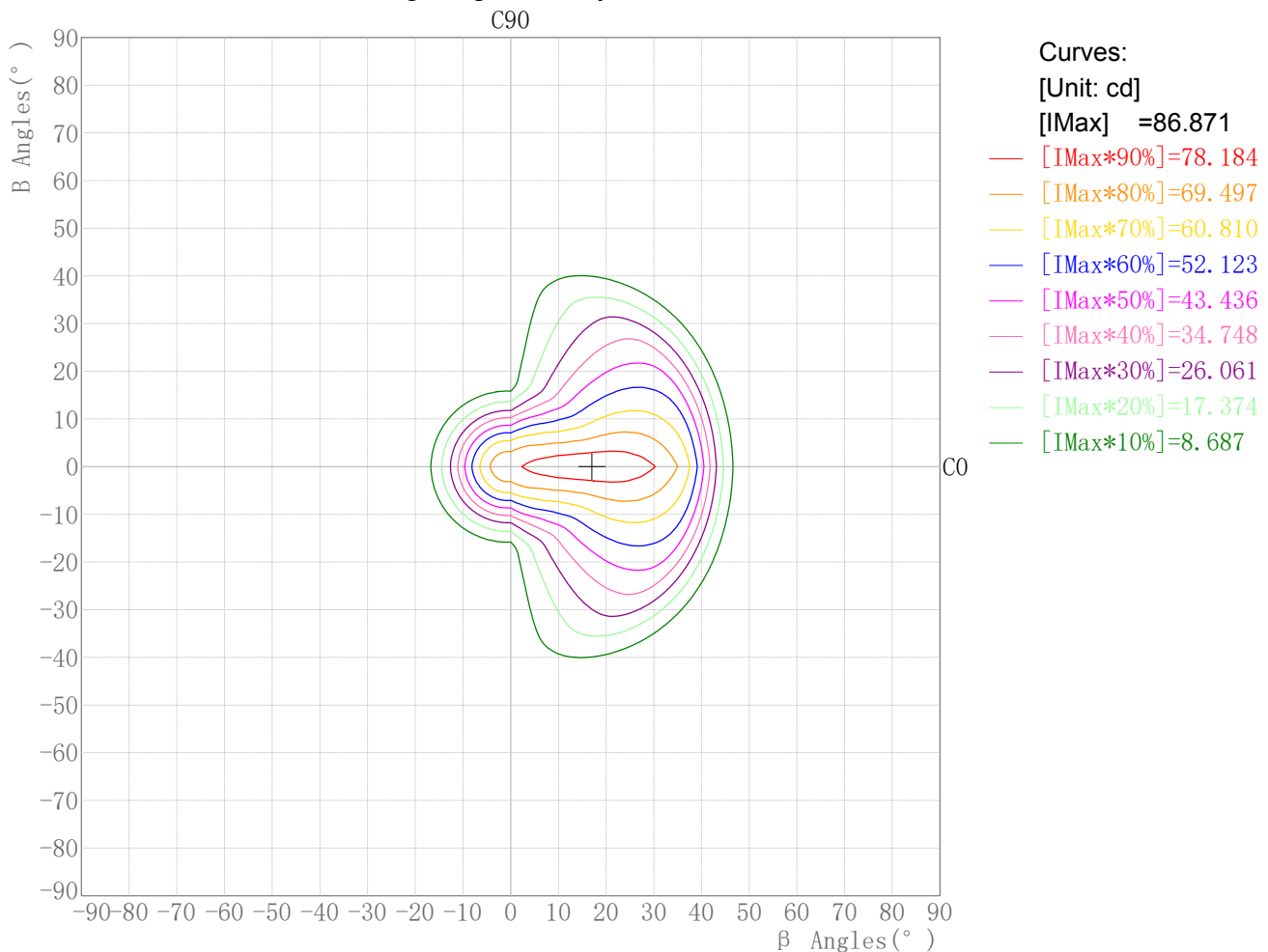
### Zonal Flux Tabulation - (Cont.)

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.07	44.70	0.15	92.54	141.0-142.0	0.04	47.40	0.09	98.15
95.0-96.0	0.07	44.77	0.14	92.69	142.0-143.0	0.04	47.45	0.09	98.23
96.0-97.0	0.07	44.84	0.14	92.83	143.0-144.0	0.04	47.49	0.09	98.32
97.0-98.0	0.07	44.91	0.14	92.98	144.0-145.0	0.04	47.53	0.09	98.41
98.0-99.0	0.07	44.98	0.14	93.12	145.0-146.0	0.04	47.57	0.08	98.49
99.0-100.0	0.07	45.05	0.14	93.26	146.0-147.0	0.04	47.61	0.08	98.57
100.0-101.0	0.07	45.11	0.14	93.40	147.0-148.0	0.04	47.65	0.08	98.65
101.0-102.0	0.07	45.18	0.14	93.54	148.0-149.0	0.04	47.69	0.08	98.73
102.0-103.0	0.07	45.25	0.14	93.68	149.0-150.0	0.04	47.73	0.08	98.81
103.0-104.0	0.07	45.31	0.14	93.82	150.0-151.0	0.04	47.76	0.08	98.88
104.0-105.0	0.07	45.38	0.14	93.95	151.0-152.0	0.04	47.80	0.07	98.96
105.0-106.0	0.07	45.45	0.14	94.09	152.0-153.0	0.03	47.83	0.07	99.03
106.0-107.0	0.07	45.51	0.13	94.23	153.0-154.0	0.03	47.86	0.07	99.10
107.0-108.0	0.06	45.58	0.13	94.36	154.0-155.0	0.03	47.90	0.07	99.16
108.0-109.0	0.06	45.64	0.13	94.49	155.0-156.0	0.03	47.93	0.06	99.23
109.0-110.0	0.06	45.70	0.13	94.62	156.0-157.0	0.03	47.96	0.06	99.29
110.0-111.0	0.06	45.77	0.13	94.75	157.0-158.0	0.03	47.99	0.06	99.35
111.0-112.0	0.06	45.83	0.13	94.88	158.0-159.0	0.03	48.01	0.06	99.41
112.0-113.0	0.06	45.89	0.13	95.01	159.0-160.0	0.03	48.04	0.05	99.46
113.0-114.0	0.06	45.95	0.13	95.14	160.0-161.0	0.03	48.07	0.05	99.52
114.0-115.0	0.06	46.01	0.13	95.26	161.0-162.0	0.02	48.09	0.05	99.57
115.0-116.0	0.06	46.07	0.12	95.39	162.0-163.0	0.02	48.11	0.05	99.61
116.0-117.0	0.06	46.13	0.12	95.51	163.0-164.0	0.02	48.14	0.04	99.66
117.0-118.0	0.06	46.19	0.12	95.63	164.0-165.0	0.02	48.16	0.04	99.70
118.0-119.0	0.06	46.25	0.12	95.75	165.0-166.0	0.02	48.17	0.04	99.74
119.0-120.0	0.06	46.31	0.12	95.87	166.0-167.0	0.02	48.19	0.04	99.78
120.0-121.0	0.06	46.36	0.12	95.99	167.0-168.0	0.02	48.21	0.03	99.81
121.0-122.0	0.06	46.42	0.12	96.11	168.0-169.0	0.02	48.22	0.03	99.84
122.0-123.0	0.06	46.47	0.11	96.22	169.0-170.0	0.01	48.24	0.03	99.87
123.0-124.0	0.05	46.53	0.11	96.33	170.0-171.0	0.01	48.25	0.03	99.90
124.0-125.0	0.05	46.58	0.11	96.45	171.0-172.0	0.01	48.26	0.02	99.92
125.0-126.0	0.05	46.64	0.11	96.56	172.0-173.0	0.01	48.27	0.02	99.94
126.0-127.0	0.05	46.69	0.11	96.67	173.0-174.0	0.01	48.28	0.02	99.96
127.0-128.0	0.05	46.74	0.11	96.77	174.0-175.0	0.01	48.29	0.02	99.98
128.0-129.0	0.05	46.79	0.11	96.88	175.0-176.0	0.01	48.29	0.01	99.99
129.0-130.0	0.05	46.84	0.11	96.98	176.0-177.0	0.00	48.30	0.01	100.00
130.0-131.0	0.05	46.89	0.10	97.09	177.0-178.0	0.00	48.30	0.01	100.01
131.0-132.0	0.05	46.94	0.10	97.19	178.0-179.0	0.00	48.30	0.00	100.01
132.0-133.0	0.05	46.99	0.10	97.29	179.0-180.0	0.00	48.31	0.00	100.01
133.0-134.0	0.05	47.04	0.10	97.39					
134.0-135.0	0.05	47.09	0.10	97.49					
135.0-136.0	0.05	47.14	0.10	97.59					
136.0-137.0	0.05	47.18	0.10	97.68					
137.0-138.0	0.05	47.23	0.09	97.78					
138.0-139.0	0.05	47.27	0.09	97.87					
139.0-140.0	0.04	47.32	0.09	97.97					
140.0-141.0	0.04	47.36	0.09	98.06					

## Rectangle ISO Lighting Intensity Diagram

Lum. Name: HCP-22X2332+HCP-22X4332 3000K RA80	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/06/24

### ISO Lighting Intensity Curve



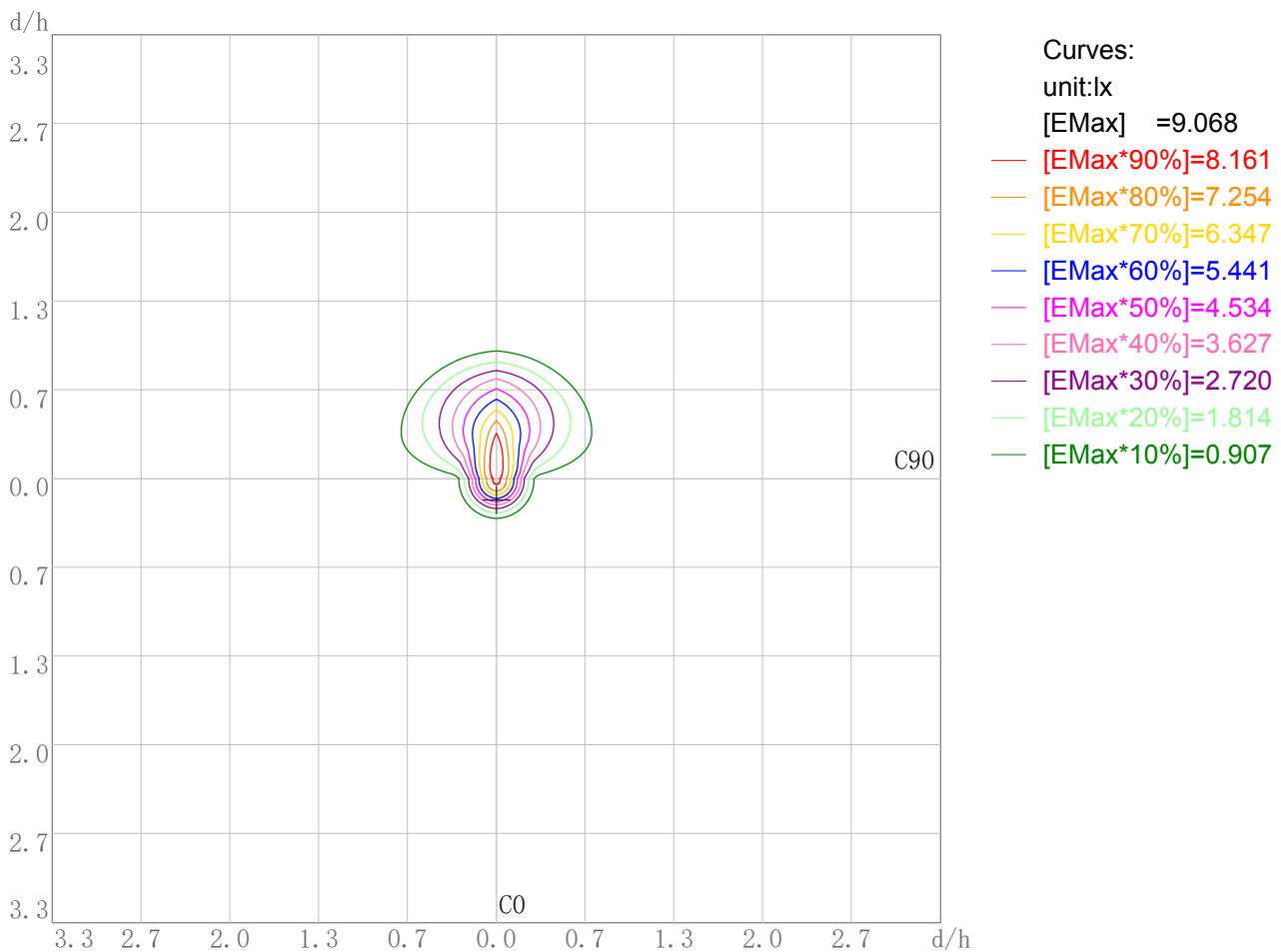
Maximum Light Intensity(cd): 86.87

Maximum Cand.@Angle: H=17.0°,V=0.0°

## Plane ISO-Illuminance Diagram

Lum. Name: HCP-22X2332+HCP-22X4332 3000K RA80	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/06/24

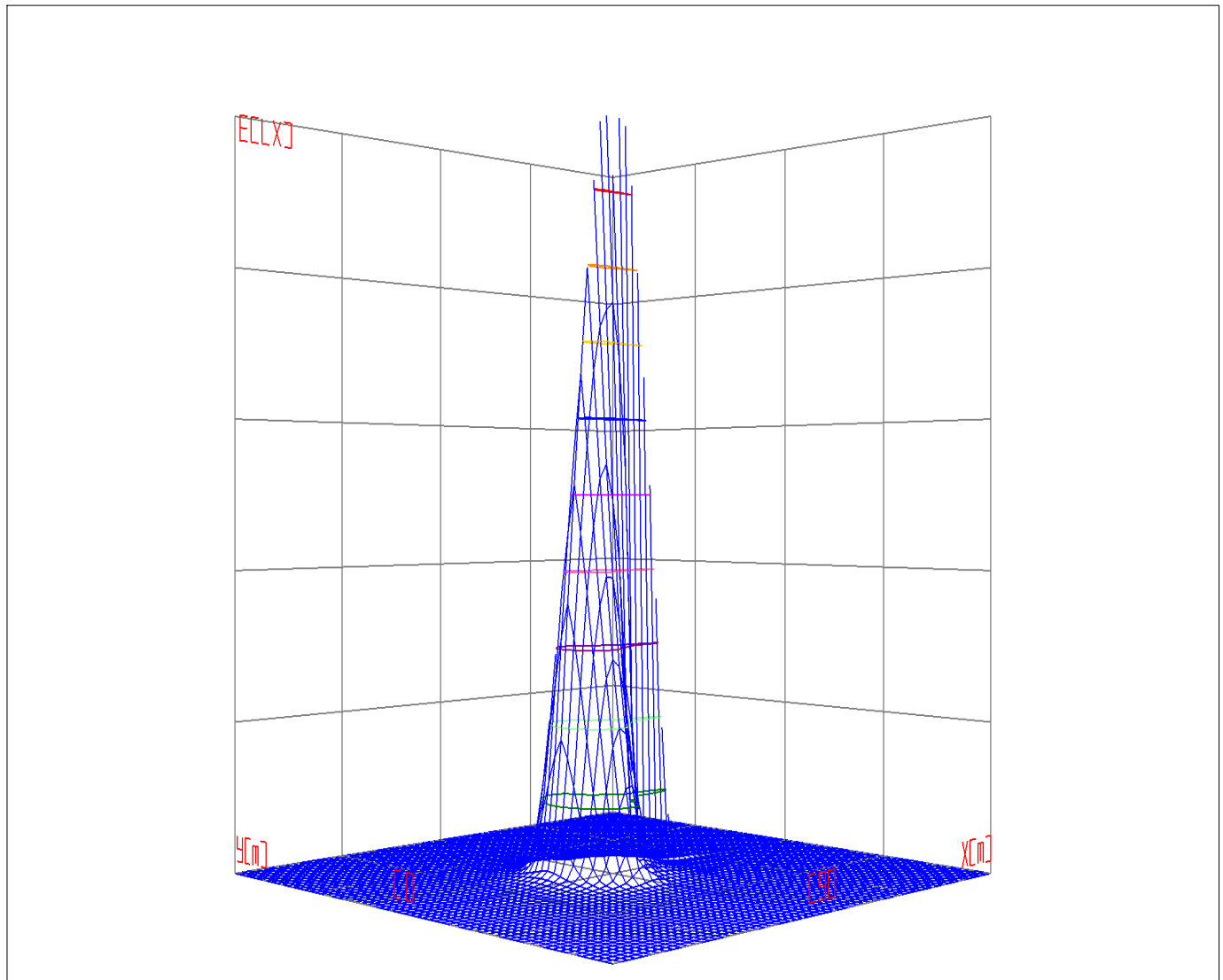
### Plane ISO-Illuminance Curve



### 3D Plane ISO Illuminance Diagram

Lum. Name: HCP-22X2332+HCP-22X4332 3000K RA80	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/06/24

### 3D Plane Illuminance Model



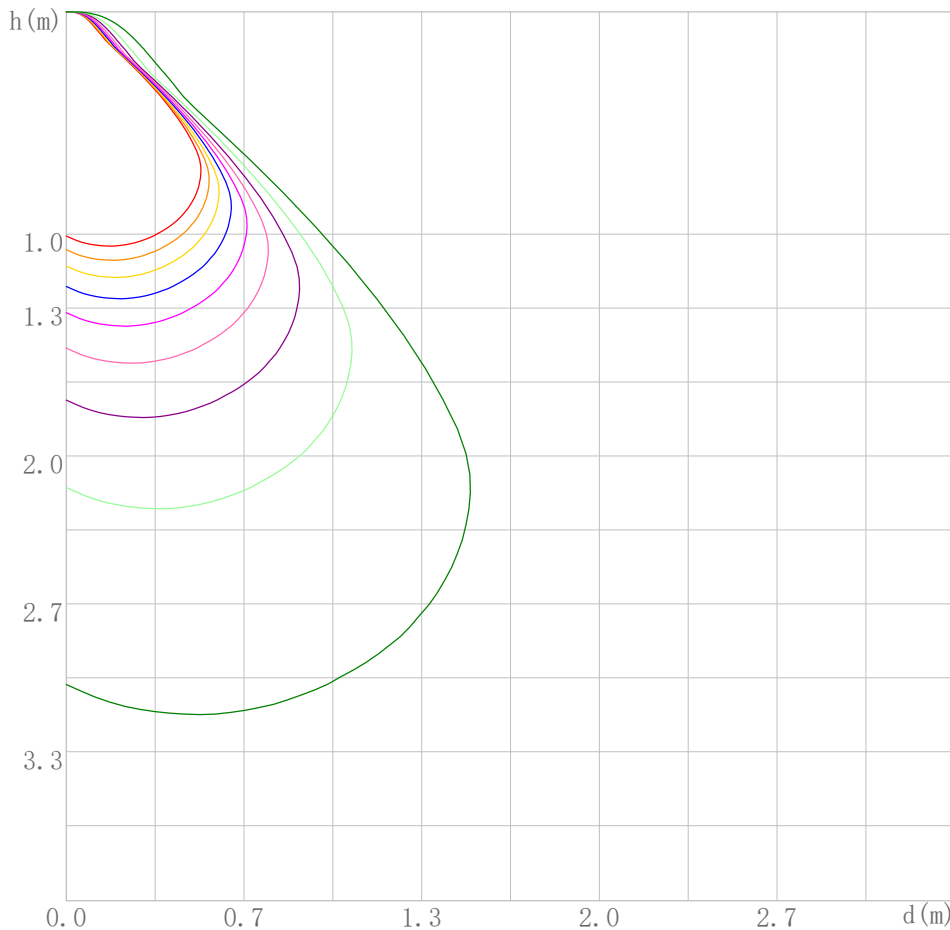
Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0



## Space ISO Illuminance Diagram

Lum. Name: HCP-22X2332+HCP-22X4332 3000K RA80	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/06/24

### Space ISO Illuminance Curve



Curves:

[Unit: lx]

[E<sub>Max</sub>] =81.610

— [E<sub>Max</sub>\*90%]=73.449

— [E<sub>Max</sub>\*80%]=65.288

— [E<sub>Max</sub>\*70%]=57.127

— [E<sub>Max</sub>\*60%]=48.966

— [E<sub>Max</sub>\*50%]=40.805

— [E<sub>Max</sub>\*40%]=32.644

— [E<sub>Max</sub>\*30%]=24.483

— [E<sub>Max</sub>\*20%]=16.322

— [E<sub>Max</sub>\*10%]=8.161

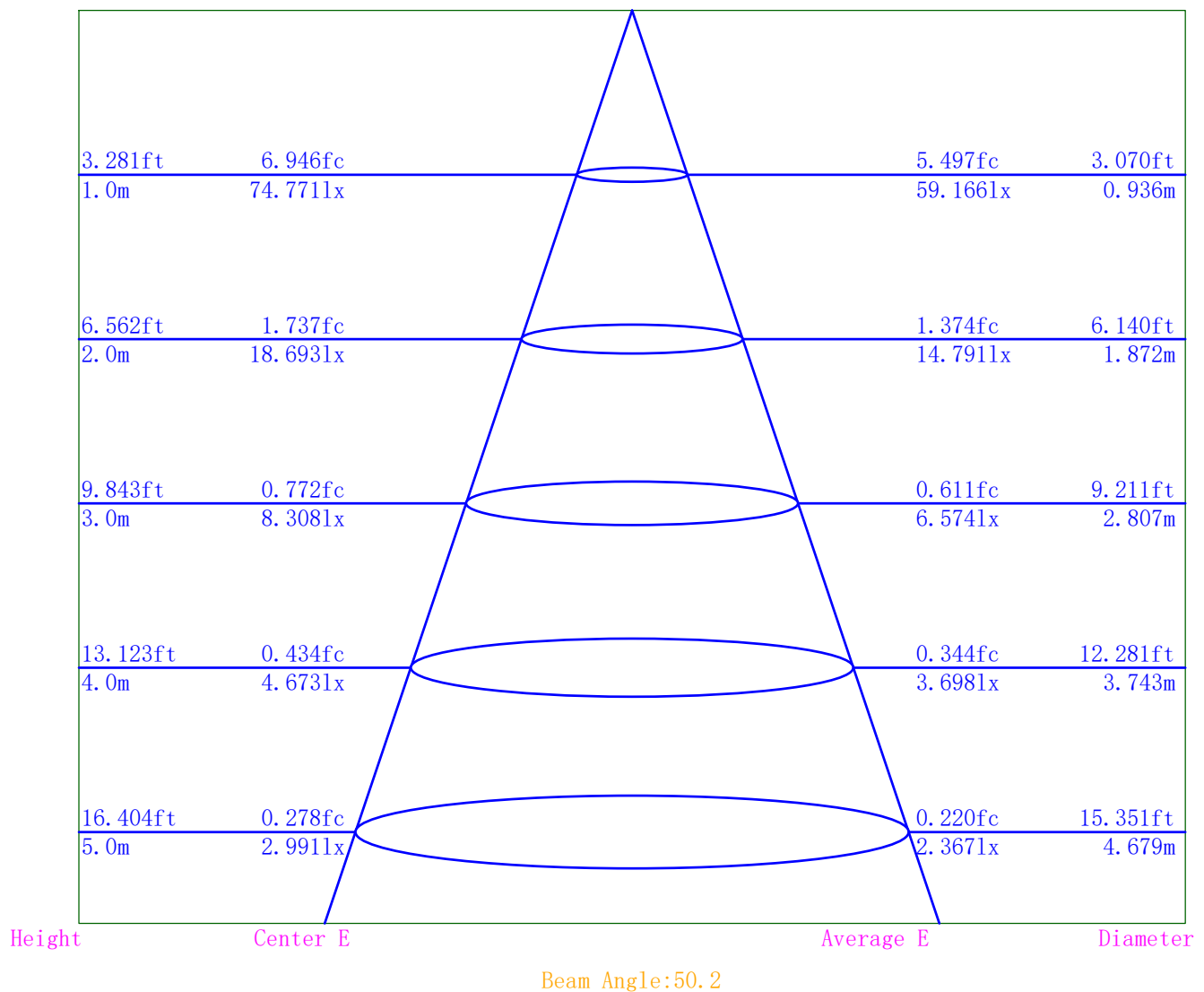
Space Plane Maximum Illuminance and @Angle:81.61lx,9.0deg

Plane Maximum Lighting Intensity and @Angle:86.871cd,0deg

## Illuminance-Distance Diagram

Lum. Name: HCP-22X2332+HCP-22X4332 3000K RA80	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/06/24

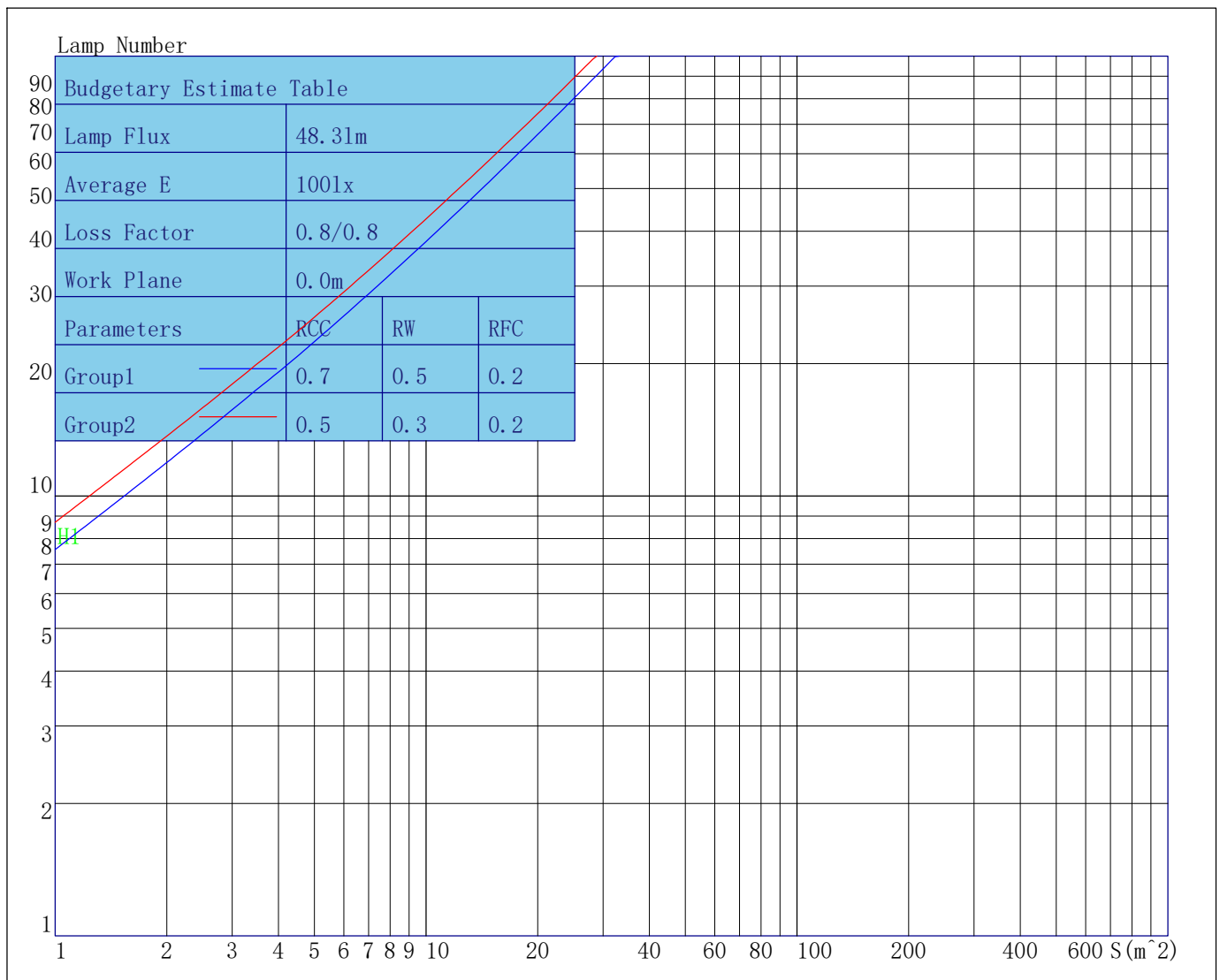
Illuminance-Distance Curve



Page 11 of 18

## Indoor Budgetary Estimate Table

Lum. Name: HCP-22X2332+HCP-22X4332 3000K RA80	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/06/24



## Indoor Coefficient of Utilization Table

Lum. Name: HCP-22X2332+HCP-22X4332 3000K RA80	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine:GON-2000	Test Date: 2020/06/24

Coefficients of Utilization – Zonal Cavity Method																		
Coef.	Effective Floor Cavity Reflectance RFC=0.20																	
RhoCC (%)	80				70				50			30			10			0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization(%)																	
0	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	110	107	104	101	107	104	101	98	98	96	94	93	91	90	88	87	86	83
2	103	98	93	89	100	95	91	87	91	87	84	86	84	81	82	80	78	76
3	97	90	84	80	95	88	83	78	84	80	76	80	77	74	77	74	72	70
4	92	83	77	72	89	81	76	71	78	73	69	75	71	68	72	69	66	64
5	87	77	71	66	84	76	70	65	73	68	64	70	66	62	68	64	61	59
6	82	72	65	60	80	71	64	60	68	63	59	66	61	58	64	60	57	55
7	77	67	61	56	75	66	60	55	64	59	55	62	57	54	60	56	53	51
8	73	63	56	52	72	62	56	52	60	55	51	58	54	50	57	53	49	48
9	70	59	53	48	68	58	52	48	57	51	48	55	50	47	54	50	46	45
10	66	56	50	45	65	55	49	45	54	48	45	52	47	44	51	47	44	42

## Unified Glare Rating Table

Lum. Name: HCP-22X2332+HCP-22X4332 3000K RA80	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/06/24

## Unified Glare Rating Table

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size	Vewed crosswise					Vewed endwise				
X=2H    Y=2H	16.2	17.2	16.7	17.7	18.2	7.1	8.1	7.6	8.6	9.1
	16.1	17.0	16.7	17.5	18.1	7.5	8.4	8.0	8.9	9.4
	16.2	17.0	16.7	17.5	18.1	7.8	8.7	8.4	9.2	9.8
	16.2	17.0	16.8	17.5	18.1	8.5	9.2	9.0	9.8	10.4
	16.3	17.0	16.9	17.6	18.2	8.9	9.7	9.5	10.2	10.8
	16.4	17.1	17.0	17.7	18.3	9.6	10.3	10.1	10.8	11.4
X=4H    Y=2H	16.0	16.8	16.5	17.3	17.9	7.1	8.0	7.7	8.5	9.1
	15.9	16.6	16.5	17.2	17.8	7.8	8.5	8.3	9.0	9.6
	16.0	16.6	16.6	17.2	17.8	8.4	9.0	8.9	9.6	10.2
	16.2	16.7	16.8	17.3	18.0	9.3	9.9	9.9	10.4	11.1
	16.3	16.8	16.9	17.4	18.1	10.0	10.5	10.6	11.1	11.7
	16.6	17.0	17.2	17.7	18.3	10.8	11.2	11.4	11.9	12.5
X=8H    Y=4H	15.9	16.4	16.5	17.0	17.7	8.7	9.2	9.3	9.8	10.5
	16.2	16.6	16.8	17.2	17.9	10.0	10.4	10.6	11.1	11.8
	16.4	16.8	17.1	17.5	18.1	10.9	11.2	11.5	11.9	12.6
	16.9	17.2	17.5	17.9	18.6	12.0	12.3	12.6	12.9	13.7
X=12H    Y=4H	15.9	16.3	16.5	16.9	17.6	8.9	9.3	9.5	9.9	10.6
	16.2	16.5	16.8	17.1	17.9	10.3	10.6	10.9	11.2	12.0
	16.5	16.8	17.1	17.4	18.2	11.3	11.6	11.9	12.2	13.0
Variations with the observer position at spacings										
S=1.0H	0.0/−0.0					0.1/−0.1				
S=1.5H	0.1/−0.1					0.1/−0.1				
S=2.0H	0.1/−0.1					0.1/−0.2				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	1.0					3.3				

o the CIE Pub. 117, data has been corrected, refers to the lamp's lumens 8.2flm.

## Candela Tabulation

V/H	C0.0	C90.0	C180.0
γ 0.0	74.77	74.77	74.77
γ 1.0	76.23	73.88	75.81
γ 2.0	77.73	72.88	74.30
γ 3.0	79.05	69.91	72.81
γ 4.0	80.26	66.39	70.54
γ 5.0	81.31	62.60	67.60
γ 6.0	82.27	58.12	63.17
γ 7.0	83.13	52.54	58.24
γ 8.0	83.93	46.81	52.95
γ 9.0	84.70	41.53	47.31
γ 10.0	85.33	36.40	41.31
γ 11.0	85.79	30.45	35.33
γ 12.0	86.18	24.63	29.61
γ 13.0	86.46	19.83	24.17
γ 14.0	86.75	15.70	19.42
γ 15.0	86.82	11.69	15.20
γ 16.0	86.82	8.08	11.12
γ 17.0	86.87	5.59	7.84
γ 18.0	86.77	4.41	5.77
γ 19.0	86.42	3.98	4.24
γ 20.0	86.23	3.65	3.49
γ 21.0	85.95	3.35	3.21
γ 22.0	85.55	3.03	3.00
γ 23.0	85.07	2.75	2.80
γ 24.0	84.61	2.53	2.59
γ 25.0	83.83	2.35	2.41
γ 26.0	82.90	2.19	2.28
γ 27.0	82.15	2.06	2.17
γ 28.0	81.06	1.95	2.06
γ 29.0	79.85	1.84	1.97
γ 30.0	78.61	1.75	1.88
γ 31.0	77.11	1.67	1.80
γ 32.0	75.54	1.60	1.73
γ 33.0	73.65	1.53	1.66
γ 34.0	71.71	1.46	1.60
γ 35.0	69.51	1.41	1.54
γ 36.0	66.81	1.36	1.48
γ 37.0	63.36	1.30	1.44
γ 38.0	58.72	1.26	1.38
γ 39.0	52.85	1.22	1.34
γ 40.0	46.74	1.17	1.31
γ 41.0	40.19	1.14	1.27
γ 42.0	33.38	1.11	1.23
γ 43.0	26.79	1.09	1.19
γ 44.0	20.52	1.05	1.17
γ 45.0	15.23	1.02	1.15
γ 46.0	10.71	1.00	1.12

## Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0
γ 47.0	7.34	0.97	1.10
γ 48.0	5.19	0.95	1.07
γ 49.0	4.20	0.93	1.04
γ 50.0	3.80	0.90	1.03
γ 51.0	3.47	0.89	1.01
γ 52.0	3.17	0.87	1.00
γ 53.0	2.89	0.86	0.98
γ 54.0	2.65	0.84	0.97
γ 55.0	2.46	0.82	0.95
γ 56.0	2.30	0.82	0.94
γ 57.0	2.17	0.81	0.92
γ 58.0	2.04	0.79	0.91
γ 59.0	1.93	0.78	0.89
γ 60.0	1.85	0.77	0.88
γ 61.0	1.75	0.76	0.88
γ 62.0	1.67	0.75	0.86
γ 63.0	1.60	0.74	0.86
γ 64.0	1.53	0.74	0.84
γ 65.0	1.47	0.72	0.83
γ 66.0	1.40	0.71	0.83
γ 67.0	1.36	0.70	0.80
γ 68.0	1.32	0.69	0.80
γ 69.0	1.28	0.68	0.80
γ 70.0	1.23	0.68	0.79
γ 71.0	1.20	0.65	0.78
γ 72.0	1.16	0.65	0.77
γ 73.0	1.14	0.64	0.77
γ 74.0	1.10	0.63	0.77
γ 75.0	1.07	0.63	0.75
γ 76.0	1.05	0.62	0.75
γ 77.0	1.03	0.61	0.73
γ 78.0	1.00	0.61	0.74
γ 79.0	0.99	0.62	0.72
γ 80.0	0.96	0.61	0.72
γ 81.0	0.95	0.61	0.71
γ 82.0	0.93	0.60	0.71
γ 83.0	0.92	0.59	0.70
γ 84.0	0.91	0.59	0.70
γ 85.0	0.88	0.58	0.69
γ 86.0	0.88	0.59	0.68
γ 87.0	0.85	0.58	0.68
γ 88.0	0.85	0.58	0.68
γ 89.0	0.84	0.58	0.67
γ 90.0	0.84	0.58	0.66
γ 91.0	0.82	0.57	0.66
γ 92.0	0.82	0.57	0.65
γ 93.0	0.81	0.57	0.65



## Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0
γ 94.0	0.80	0.58	0.65
γ 95.0	0.80	0.56	0.64
γ 96.0	0.79	0.57	0.64
γ 97.0	0.78	0.57	0.64
γ 98.0	0.76	0.57	0.65
γ 99.0	0.76	0.57	0.64
γ 100.0	0.75	0.57	0.63
γ 101.0	0.74	0.56	0.63
γ 102.0	0.74	0.57	0.64
γ 103.0	0.74	0.56	0.64
γ 104.0	0.74	0.56	0.63
γ 105.0	0.73	0.56	0.63
γ 106.0	0.72	0.57	0.63
γ 107.0	0.71	0.56	0.63
γ 108.0	0.71	0.56	0.63
γ 109.0	0.71	0.56	0.64
γ 110.0	0.70	0.56	0.63
γ 111.0	0.70	0.55	0.63
γ 112.0	0.69	0.56	0.63
γ 113.0	0.69	0.56	0.63
γ 114.0	0.69	0.56	0.64
γ 115.0	0.68	0.56	0.63
γ 116.0	0.68	0.55	0.65
γ 117.0	0.67	0.55	0.64
γ 118.0	0.67	0.55	0.64
γ 119.0	0.67	0.56	0.64
γ 120.0	0.67	0.54	0.64
γ 121.0	0.66	0.55	0.65
γ 122.0	0.66	0.55	0.66
γ 123.0	0.65	0.55	0.65
γ 124.0	0.65	0.55	0.67
γ 125.0	0.65	0.54	0.65
γ 126.0	0.65	0.55	0.67
γ 127.0	0.64	0.53	0.65
γ 128.0	0.65	0.54	0.66
γ 129.0	0.64	0.55	0.67
γ 130.0	0.63	0.55	0.67
γ 131.0	0.64	0.55	0.68
γ 132.0	0.63	0.55	0.68
γ 133.0	0.63	0.55	0.68
γ 134.0	0.64	0.55	0.69
γ 135.0	0.64	0.56	0.69
γ 136.0	0.63	0.56	0.69
γ 137.0	0.64	0.56	0.69
γ 138.0	0.64	0.57	0.69
γ 139.0	0.64	0.58	0.70
γ 140.0	0.64	0.59	0.70

## Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0
γ 141.0	0.63	0.60	0.70
γ 142.0	0.64	0.60	0.71
γ 143.0	0.64	0.61	0.71
γ 144.0	0.64	0.62	0.71
γ 145.0	0.64	0.62	0.71
γ 146.0	0.65	0.63	0.72
γ 147.0	0.65	0.64	0.71
γ 148.0	0.65	0.65	0.71
γ 149.0	0.65	0.65	0.71
γ 150.0	0.66	0.65	0.71
γ 151.0	0.66	0.67	0.71
γ 152.0	0.66	0.67	0.71
γ 153.0	0.66	0.67	0.71
γ 154.0	0.66	0.68	0.70
γ 155.0	0.66	0.69	0.71
γ 156.0	0.67	0.68	0.70
γ 157.0	0.68	0.69	0.71
γ 158.0	0.68	0.69	0.71
γ 159.0	0.67	0.69	0.71
γ 160.0	0.68	0.69	0.71
γ 161.0	0.68	0.70	0.70
γ 162.0	0.68	0.70	0.70
γ 163.0	0.69	0.69	0.71
γ 164.0	0.68	0.70	0.71
γ 165.0	0.69	0.70	0.71
γ 166.0	0.70	0.69	0.71
γ 167.0	0.70	0.70	0.71
γ 168.0	0.70	0.70	0.71
γ 169.0	0.70	0.69	0.71
γ 170.0	0.70	0.69	0.71
γ 171.0	0.70	0.69	0.72
γ 172.0	0.71	0.69	0.71
γ 173.0	0.70	0.68	0.71
γ 174.0	0.71	0.68	0.71
γ 175.0	0.71	0.69	0.72
γ 176.0	0.70	0.68	0.71
γ 177.0	0.71	0.68	0.71
γ 178.0	0.71	0.68	0.71
γ 179.0	0.72	0.67	0.71
γ 180.0	0.70	0.70	0.70