

Indoor Luminaire Photometric Data

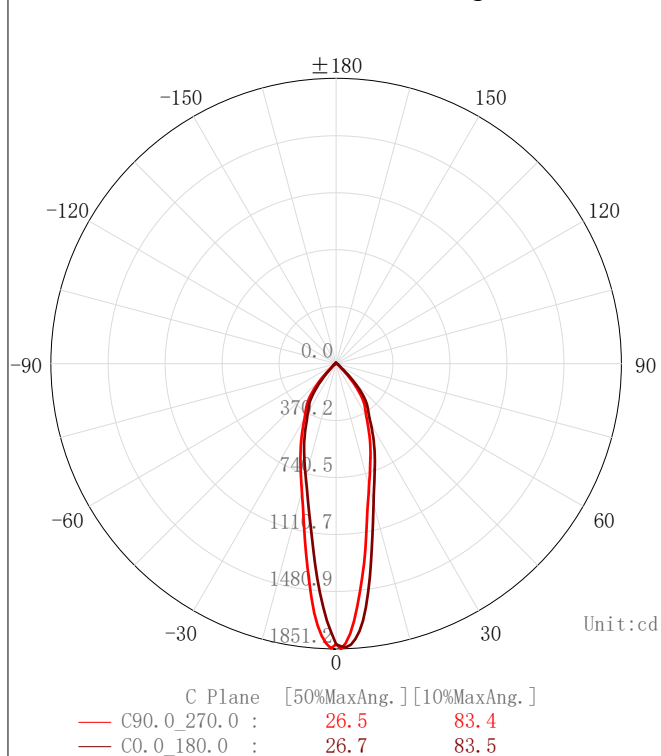
Description Information

Luminary Name: HCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2020/10/12
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*0.000m*0.080m	Lum. Area (m ²): 0.016	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=1.0	Temp. (°C): 25
		Humidity (%): 50.0

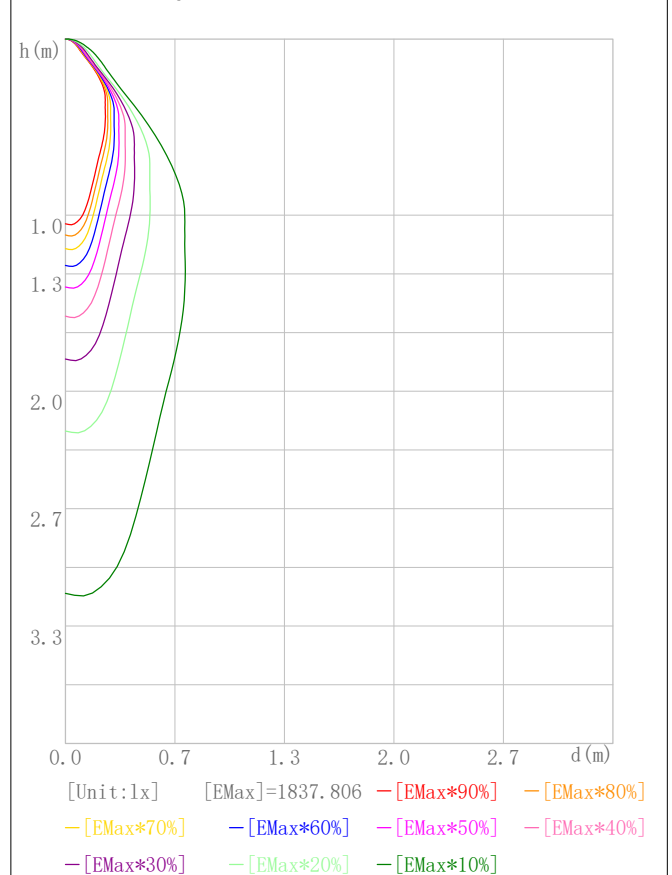
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 966.580	Luminary Flux(lm): 966.583	Field Angle(10%Imax): 83.4(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 953.164lm 98.61%
Rated Voltage(V):	Luminary EER(lm/W): 60.677	Up Lumens&Percent: 13.419lm 1.39%
Tested Power(W): 15.930	Max. Candela(cd): 1851.151	S/MH: C0_a180=0.438 C90_270=0.437
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf): 240.1, 0.068, 0.967	Beam Angle(50%Imax): 26.5(°)	ErP Φ use(90°): 854.477lm
Lamp Size (W*L*H): 0.050m*0.000m*0.080m	Left=-13.6°, Right=12.9°	IRF (%): 397.268

C Plane Distribution Diagram



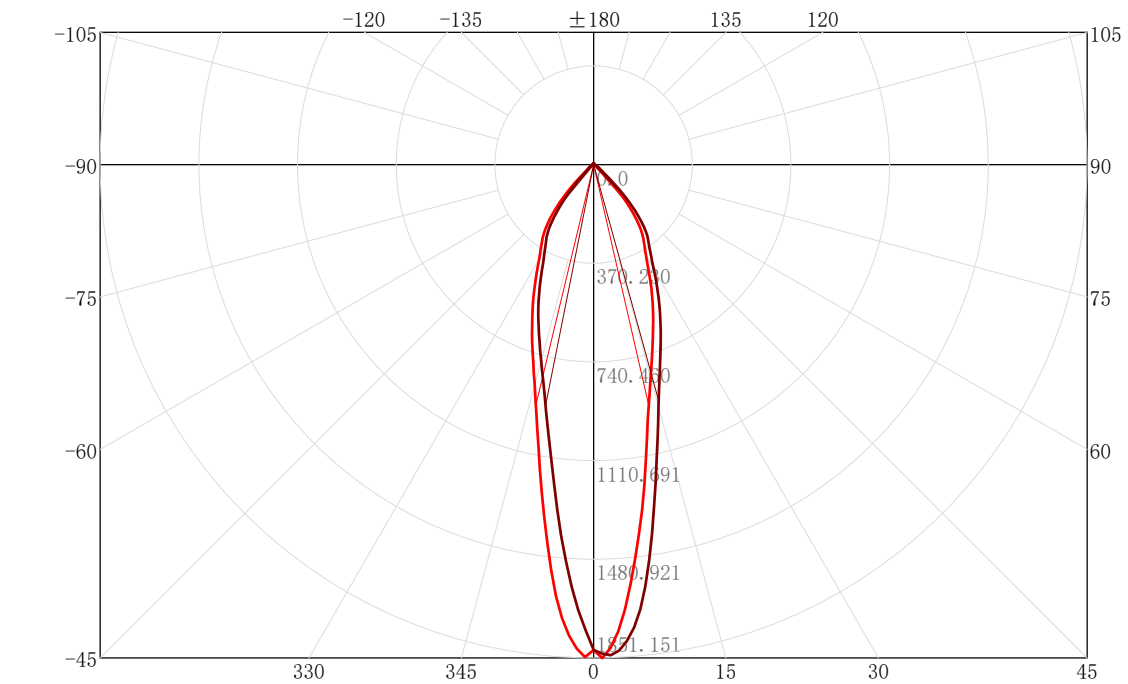
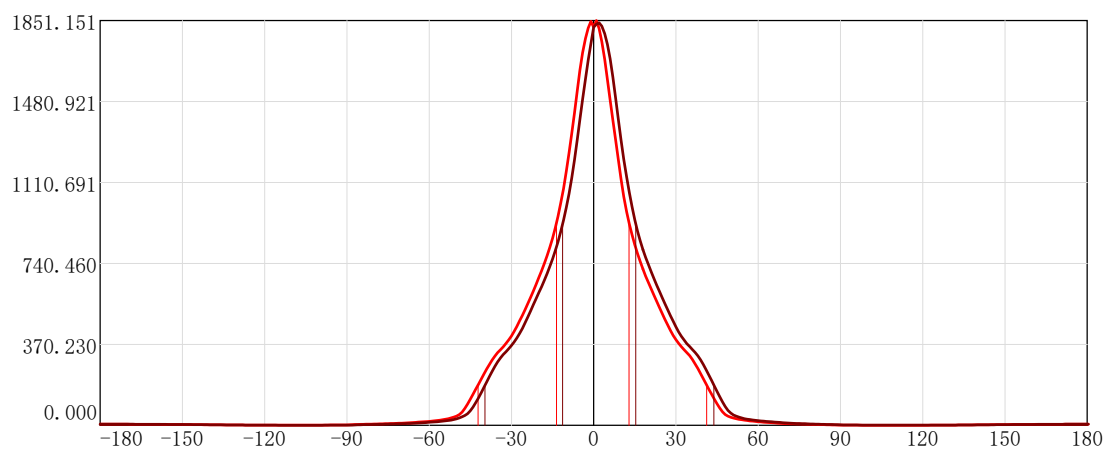
C0 Space ISO Illuminance Curve



2D Plane Light Intensity Distribution Curve

Lum. Name: HCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/10/12

C Plane Distribution Diagram



C Plane [50%MaxAng.] [10%MaxAng.]

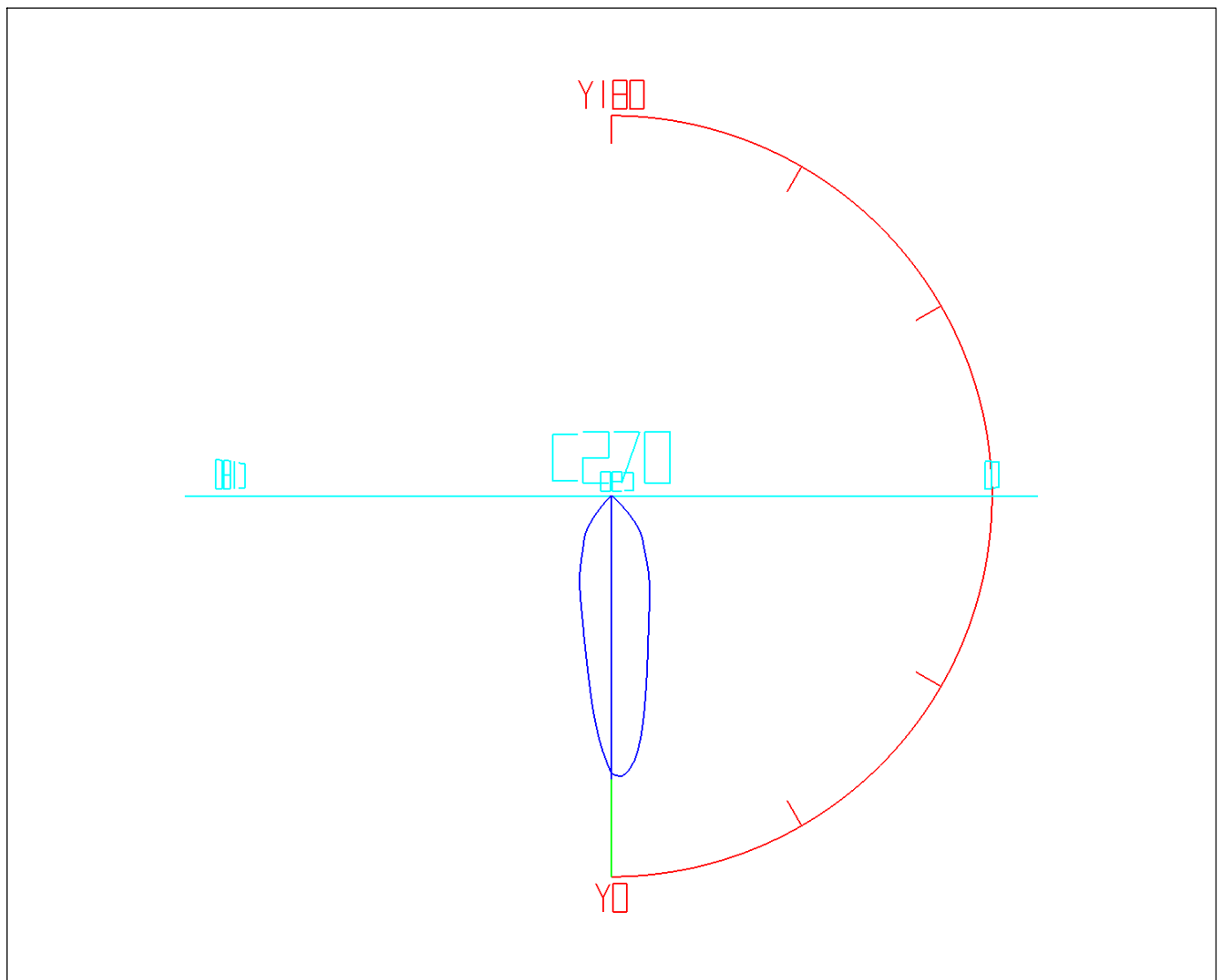
C90.0_270.0 :	26.5	83.4
C0.0_180.0 :	26.7	83.5

Unit:cd

3D Light Intensity Distribution Modal

Lum. Name: HCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/10/12

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	1.74	1.74	0.18	0.18	47.0-48.0	5.35	895.91	0.55	92.69
1.0-2.0	5.17	6.92	0.54	0.72	48.0-49.0	4.44	900.35	0.46	93.15
2.0-3.0	8.42	15.33	0.87	1.59	49.0-50.0	3.77	904.12	0.39	93.54
3.0-4.0	11.38	26.71	1.18	2.76	50.0-51.0	3.31	907.43	0.34	93.88
4.0-5.0	13.99	40.70	1.45	4.21	51.0-52.0	2.98	910.42	0.31	94.19
5.0-6.0	16.21	56.91	1.68	5.89	52.0-53.0	2.73	913.14	0.28	94.47
6.0-7.0	18.03	74.94	1.87	7.75	53.0-54.0	2.52	915.67	0.26	94.73
7.0-8.0	19.50	94.44	2.02	9.77	54.0-55.0	2.35	918.02	0.24	94.98
8.0-9.0	20.64	115.08	2.14	11.91	55.0-56.0	2.20	920.22	0.23	95.20
9.0-10.0	21.51	136.59	2.23	14.13	56.0-57.0	2.07	922.28	0.21	95.42
10.0-11.0	22.17	158.76	2.29	16.42	57.0-58.0	1.95	924.24	0.20	95.62
11.0-12.0	22.68	181.44	2.35	18.77	58.0-59.0	1.85	926.08	0.19	95.81
12.0-13.0	23.12	204.56	2.39	21.16	59.0-60.0	1.75	927.83	0.18	95.99
13.0-14.0	23.52	228.08	2.43	23.60	60.0-61.0	1.67	929.50	0.17	96.16
14.0-15.0	23.86	251.94	2.47	26.06	61.0-62.0	1.59	931.09	0.16	96.33
15.0-16.0	24.16	276.10	2.50	28.56	62.0-63.0	1.51	932.60	0.16	96.48
16.0-17.0	24.43	300.53	2.53	31.09	63.0-64.0	1.44	934.04	0.15	96.63
17.0-18.0	24.67	325.20	2.55	33.64	64.0-65.0	1.36	935.40	0.14	96.77
18.0-19.0	24.85	350.06	2.57	36.22	65.0-66.0	1.29	936.69	0.13	96.91
19.0-20.0	24.98	375.03	2.58	38.80	66.0-67.0	1.22	937.91	0.13	97.03
20.0-21.0	25.04	400.07	2.59	41.39	67.0-68.0	1.14	939.05	0.12	97.15
21.0-22.0	25.02	425.09	2.59	43.98	68.0-69.0	1.08	940.13	0.11	97.26
22.0-23.0	24.91	450.00	2.58	46.56	69.0-70.0	1.02	941.14	0.11	97.37
23.0-24.0	24.72	474.71	2.56	49.11	70.0-71.0	0.96	942.10	0.10	97.47
24.0-25.0	24.45	499.16	2.53	51.64	71.0-72.0	0.91	943.02	0.09	97.56
25.0-26.0	24.10	523.27	2.49	54.14	72.0-73.0	0.87	943.89	0.09	97.65
26.0-27.0	23.69	546.96	2.45	56.59	73.0-74.0	0.83	944.72	0.09	97.74
27.0-28.0	23.24	570.20	2.40	58.99	74.0-75.0	0.79	945.51	0.08	97.82
28.0-29.0	22.80	592.99	2.36	61.35	75.0-76.0	0.75	946.27	0.08	97.90
29.0-30.0	22.37	615.37	2.31	63.66	76.0-77.0	0.72	946.98	0.07	97.97
30.0-31.0	21.99	637.35	2.27	65.94	77.0-78.0	0.68	947.67	0.07	98.04
31.0-32.0	21.65	659.00	2.24	68.18	78.0-79.0	0.65	948.31	0.07	98.11
32.0-33.0	21.35	680.36	2.21	70.39	79.0-80.0	0.61	948.92	0.06	98.17
33.0-34.0	21.04	701.40	2.18	72.57	80.0-81.0	0.58	949.50	0.06	98.23
34.0-35.0	20.68	722.08	2.14	74.70	81.0-82.0	0.54	950.04	0.06	98.29
35.0-36.0	20.20	742.28	2.09	76.79	82.0-83.0	0.51	950.55	0.05	98.34
36.0-37.0	19.54	761.83	2.02	78.82	83.0-84.0	0.48	951.04	0.05	98.39
37.0-38.0	18.72	780.54	1.94	80.75	84.0-85.0	0.45	951.49	0.05	98.44
38.0-39.0	17.71	798.26	1.83	82.59	85.0-86.0	0.42	951.91	0.04	98.48
39.0-40.0	16.54	814.80	1.71	84.30	86.0-87.0	0.38	952.28	0.04	98.52
40.0-41.0	15.23	830.04	1.58	85.87	87.0-88.0	0.34	952.62	0.03	98.56
41.0-42.0	13.82	843.86	1.43	87.30	88.0-89.0	0.29	952.91	0.03	98.59
42.0-43.0	12.33	856.18	1.28	88.58	89.0-90.0	0.25	953.16	0.03	98.61
43.0-44.0	10.79	866.98	1.12	89.70	90.0-91.0	0.23	953.39	0.02	98.64
44.0-45.0	9.27	876.25	0.96	90.65	91.0-92.0	0.21	953.60	0.02	98.66
45.0-46.0	7.82	884.07	0.81	91.46	92.0-93.0	0.20	953.80	0.02	98.68
46.0-47.0	6.49	890.56	0.67	92.14	93.0-94.0	0.19	953.99	0.02	98.70

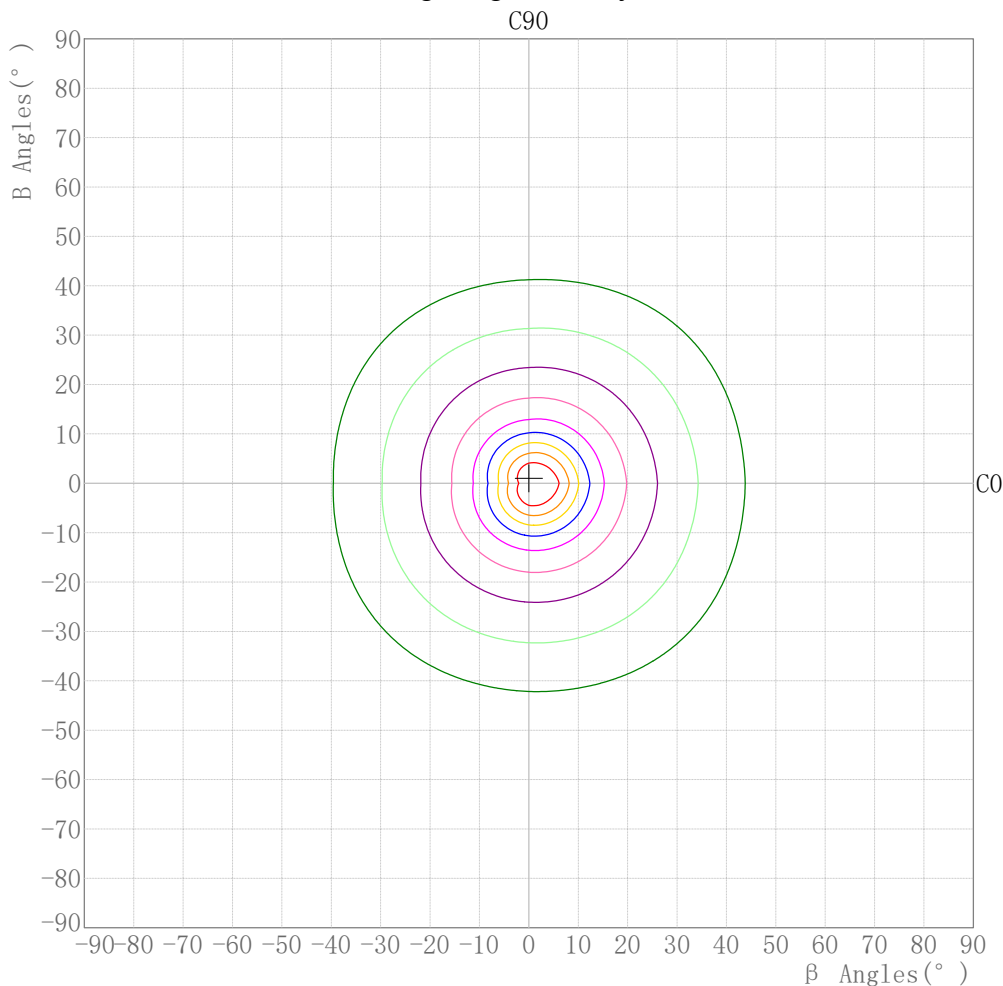
Zonal Flux Tabulation - (Cont.)

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	0.18	954.17	0.02	98.72	141.0-142.0	0.21	960.79	0.02	99.40
95.0-96.0	0.17	954.34	0.02	98.73	142.0-143.0	0.21	961.01	0.02	99.42
96.0-97.0	0.16	954.51	0.02	98.75	143.0-144.0	0.22	961.22	0.02	99.45
97.0-98.0	0.15	954.66	0.02	98.77	144.0-145.0	0.22	961.44	0.02	99.47
98.0-99.0	0.15	954.81	0.02	98.78	145.0-146.0	0.22	961.66	0.02	99.49
99.0-100.0	0.14	954.95	0.01	98.80	146.0-147.0	0.22	961.88	0.02	99.51
100.0-101.0	0.14	955.08	0.01	98.81	147.0-148.0	0.22	962.10	0.02	99.54
101.0-102.0	0.13	955.21	0.01	98.82	148.0-149.0	0.22	962.32	0.02	99.56
102.0-103.0	0.13	955.34	0.01	98.84	149.0-150.0	0.22	962.54	0.02	99.58
103.0-104.0	0.12	955.46	0.01	98.85	150.0-151.0	0.22	962.76	0.02	99.60
104.0-105.0	0.12	955.58	0.01	98.86	151.0-152.0	0.22	962.98	0.02	99.63
105.0-106.0	0.11	955.69	0.01	98.87	152.0-153.0	0.21	963.19	0.02	99.65
106.0-107.0	0.11	955.81	0.01	98.89	153.0-154.0	0.21	963.40	0.02	99.67
107.0-108.0	0.11	955.92	0.01	98.90	154.0-155.0	0.21	963.61	0.02	99.69
108.0-109.0	0.11	956.02	0.01	98.91	155.0-156.0	0.20	963.82	0.02	99.71
109.0-110.0	0.11	956.13	0.01	98.92	156.0-157.0	0.20	964.02	0.02	99.73
110.0-111.0	0.11	956.24	0.01	98.93	157.0-158.0	0.20	964.21	0.02	99.75
111.0-112.0	0.11	956.34	0.01	98.94	158.0-159.0	0.19	964.40	0.02	99.77
112.0-113.0	0.11	956.45	0.01	98.95	159.0-160.0	0.18	964.59	0.02	99.79
113.0-114.0	0.11	956.56	0.01	98.96	160.0-161.0	0.18	964.77	0.02	99.81
114.0-115.0	0.11	956.67	0.01	98.97	161.0-162.0	0.17	964.94	0.02	99.83
115.0-116.0	0.11	956.77	0.01	98.99	162.0-163.0	0.17	965.10	0.02	99.85
116.0-117.0	0.11	956.88	0.01	99.00	163.0-164.0	0.16	965.26	0.02	99.86
117.0-118.0	0.11	957.00	0.01	99.01	164.0-165.0	0.15	965.41	0.02	99.88
118.0-119.0	0.11	957.11	0.01	99.02	165.0-166.0	0.14	965.56	0.01	99.89
119.0-120.0	0.12	957.23	0.01	99.03	166.0-167.0	0.14	965.69	0.01	99.91
120.0-121.0	0.12	957.34	0.01	99.04	167.0-168.0	0.13	965.82	0.01	99.92
121.0-122.0	0.12	957.47	0.01	99.06	168.0-169.0	0.12	965.94	0.01	99.93
122.0-123.0	0.12	957.59	0.01	99.07	169.0-170.0	0.11	966.05	0.01	99.94
123.0-124.0	0.13	957.72	0.01	99.08	170.0-171.0	0.10	966.15	0.01	99.96
124.0-125.0	0.13	957.85	0.01	99.10	171.0-172.0	0.09	966.24	0.01	99.96
125.0-126.0	0.14	957.98	0.01	99.11	172.0-173.0	0.08	966.32	0.01	99.97
126.0-127.0	0.14	958.12	0.01	99.13	173.0-174.0	0.07	966.39	0.01	99.98
127.0-128.0	0.14	958.27	0.01	99.14	174.0-175.0	0.06	966.45	0.01	99.99
128.0-129.0	0.15	958.42	0.02	99.16	175.0-176.0	0.05	966.50	0.01	99.99
129.0-130.0	0.15	958.57	0.02	99.17	176.0-177.0	0.04	966.53	0.00	100.00
130.0-131.0	0.16	958.73	0.02	99.19	177.0-178.0	0.03	966.56	0.00	100.00
131.0-132.0	0.16	958.89	0.02	99.20	178.0-179.0	0.02	966.58	0.00	100.00
132.0-133.0	0.17	959.06	0.02	99.22	179.0-180.0	0.01	966.58	0.00	100.00
133.0-134.0	0.17	959.23	0.02	99.24					
134.0-135.0	0.18	959.41	0.02	99.26					
135.0-136.0	0.18	959.59	0.02	99.28					
136.0-137.0	0.19	959.78	0.02	99.30					
137.0-138.0	0.19	959.97	0.02	99.32					
138.0-139.0	0.20	960.17	0.02	99.34					
139.0-140.0	0.20	960.37	0.02	99.36					
140.0-141.0	0.21	960.58	0.02	99.38					

Rectangle ISO Lighting Intensity Diagram

Lum. Name: HCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/10/12

ISO Lighting Intensity Curve



Curves:

[Unit: cd]

[IMax] =1851.151

— [IMax*90%]=1666.036

— [IMax*80%]=1480.921

— [IMax*70%]=1295.806

— [IMax*60%]=1110.691

— [IMax*50%]=925.576

— [IMax*40%]=740.460

— [IMax*30%]=555.345

— [IMax*20%]=370.230

— [IMax*10%]=185.115

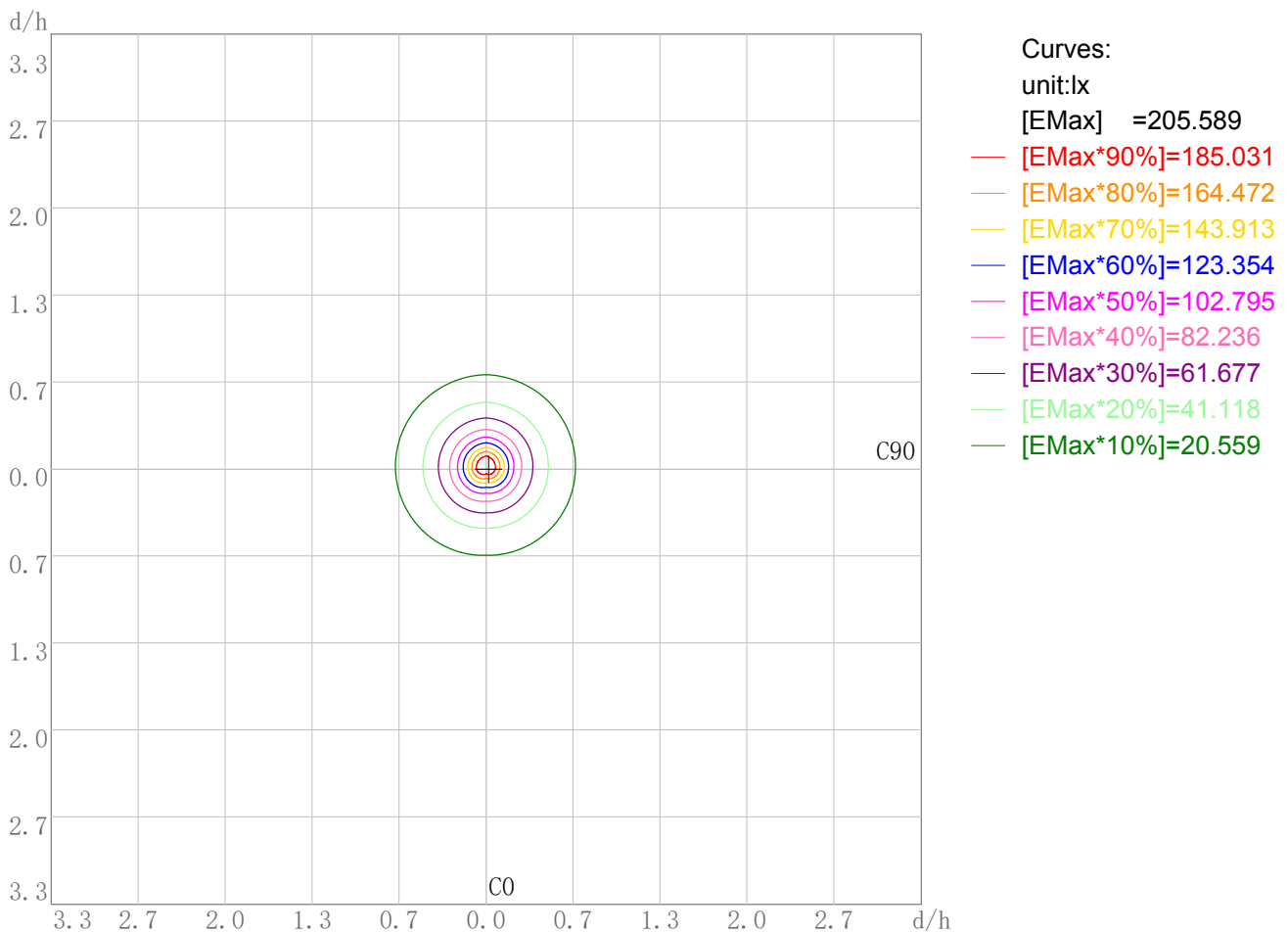
Maximum Light Intensity(cd): 1851.15

Maximum Cand.@Angle: H=0.0°,V=1.0°

Plane ISO-Illuminance Diagram

Lum. Name: HCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/10/12

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

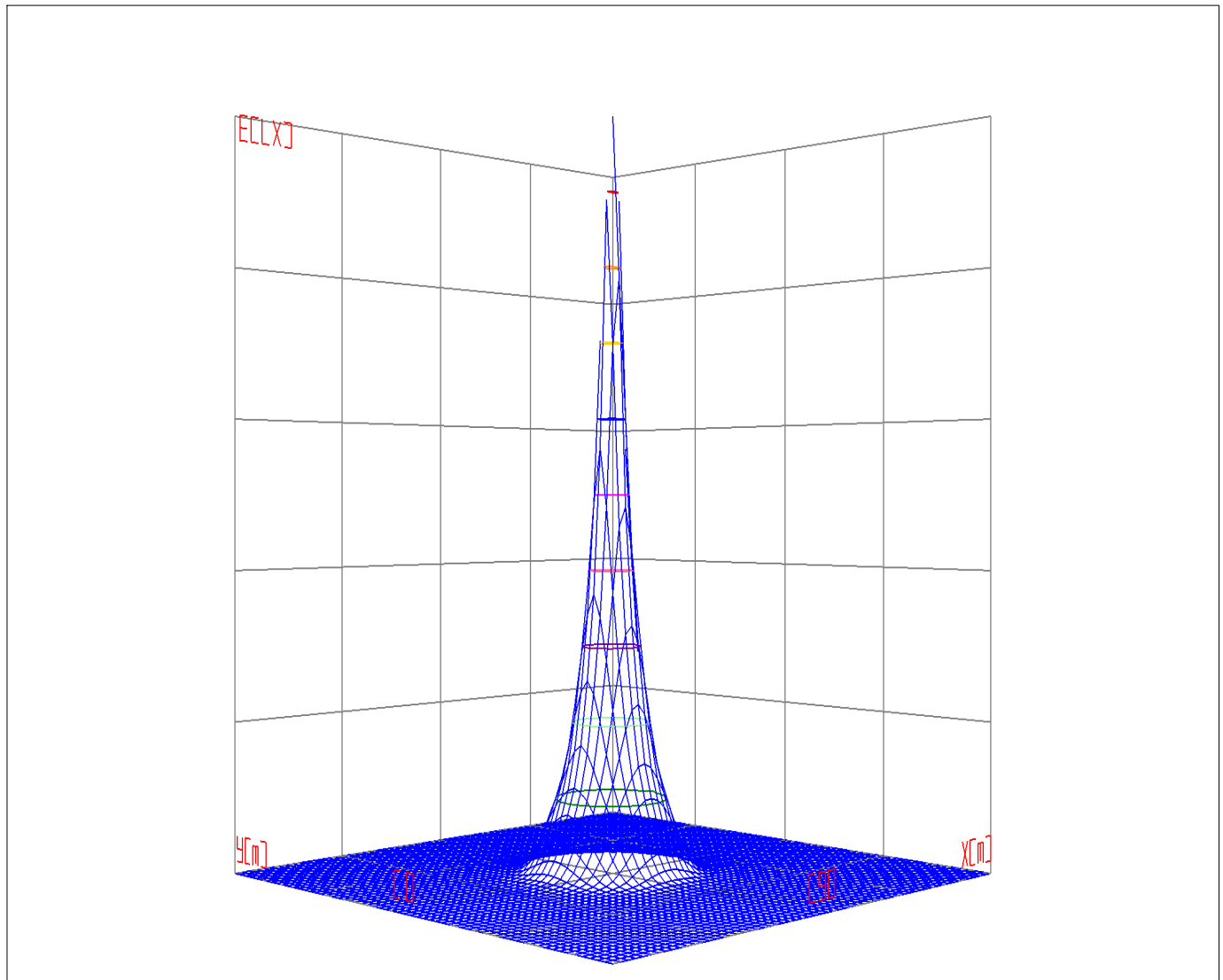
Working Plane Maximum Illuminance(lx): 205.59

Working Plane Maximum Illuminance Position(d/h): H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: HCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/10/12

3D Plane Illuminance Model

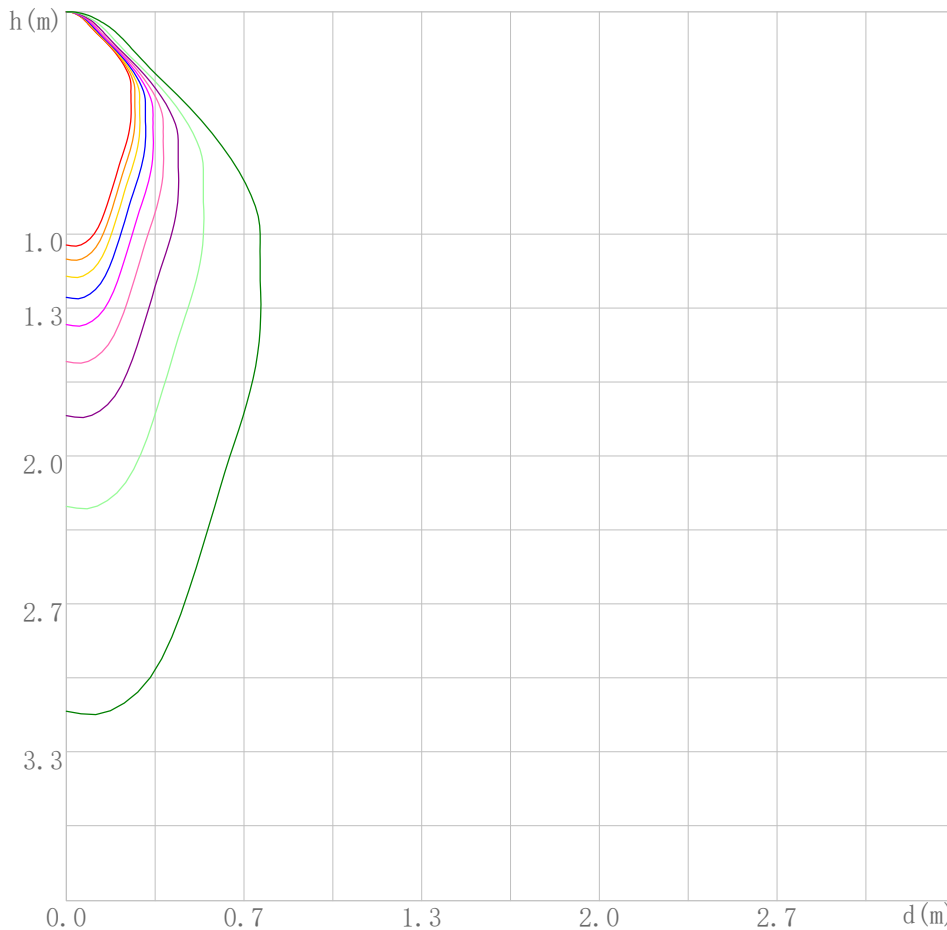


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: HCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/10/12

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[E_{Max}] = 1837.806

— [E_{Max}*90%]=1654.026

— [E_{Max}*80%]=1470.245

— [E_{Max}*70%]=1286.464

— [E_{Max}*60%]=1102.684

— [E_{Max}*50%]=918.903

— [E_{Max}*40%]=735.122

— [E_{Max}*30%]=551.342

— [E_{Max}*20%]=367.561

— [E_{Max}*10%]=183.781

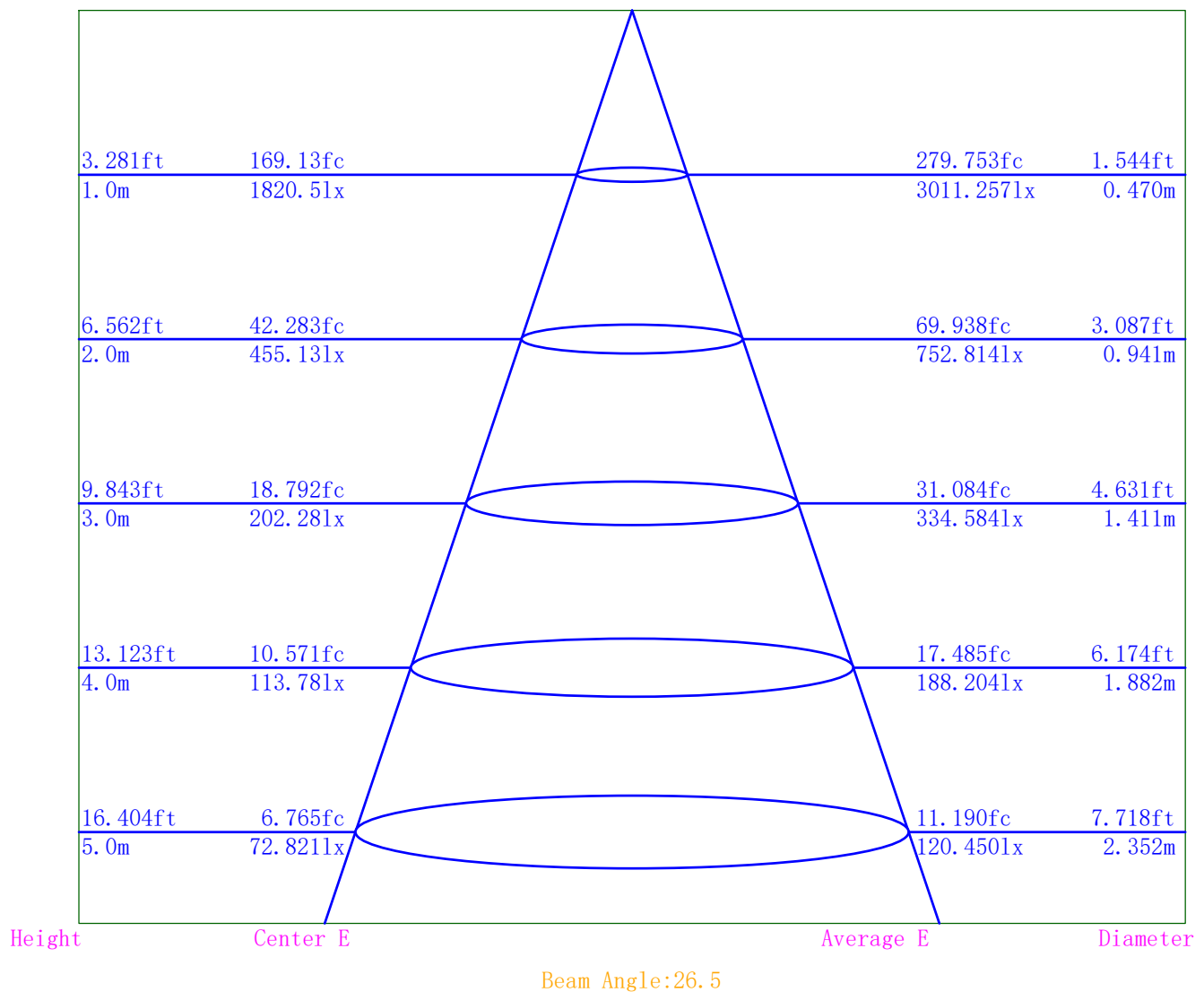
Space Plane Maximum Illuminance and @Angle:1837.81lx,2.0deg

Plane Maximum Lighting Intensity and @Angle:1841.169cd,0deg

Illuminance-Distance Diagram

Lum. Name: MHCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/10/12

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: HCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/10/12

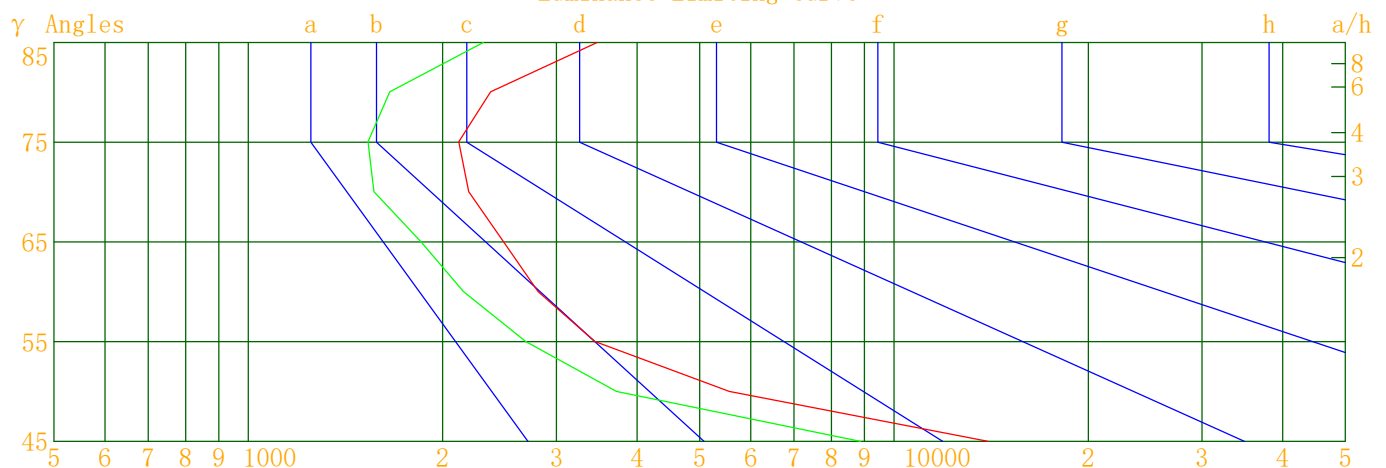
Glare Grade Table

GI	Quality	Using Illuminance							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama(deg)	45	50	55	60	65	70	75	80	85
C0	13995	5558	3442	2810	2484	2194	2118	2373	3468
C90	8873	3718	2689	2153	1850	1566	1533	1656	2311

Luminance Limiting Curve



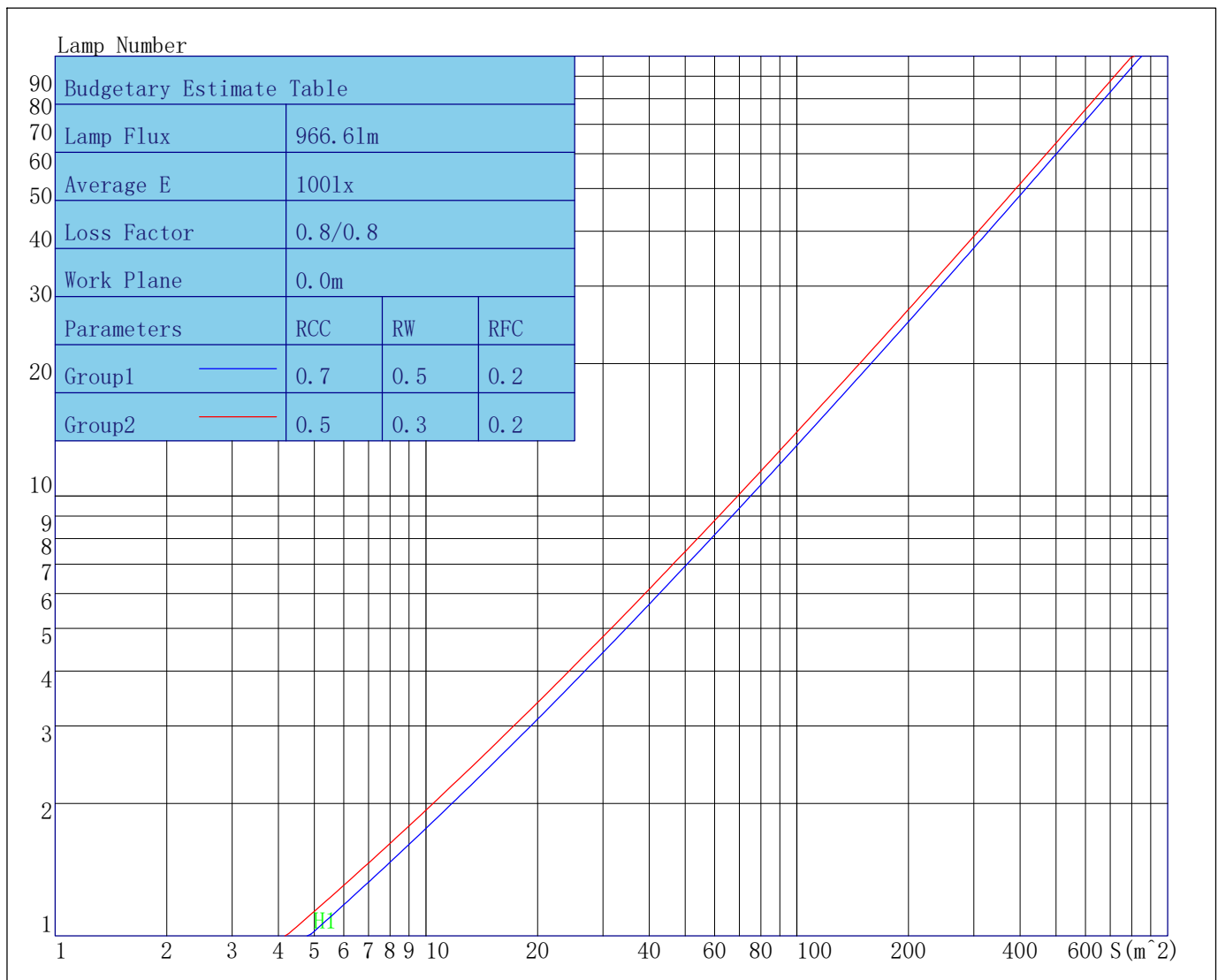
Luminous Size: Length(m)=0.000 Width(m)=-0.050 Height(m)=0.080 Area(m^2)=0.015708

Luminous Type: Without Luminous Side

Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: HCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/10/12



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8
 Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8
 Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

Indoor Coefficient of Utilization Table

Lum. Name: HCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/10/12

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	113	110	107	105	110	107	105	103	103	101	99	99	98	96	95	94	93	91
2	107	101	97	94	104	100	96	92	96	93	90	93	90	88	90	88	86	84
3	101	94	89	85	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	96	88	82	78	94	86	81	77	84	80	76	82	78	75	80	77	74	72
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	75	72	69	67
6	86	77	71	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	67	63	60	59
8	78	68	62	58	76	67	62	58	66	61	57	65	60	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	56	53	52
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	53	50	49

Unified Glare Rating Table

Lum. Name: HCP-817024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Havit Commercial	Test Machine: GON-2000	Test Date: 2020/10/12

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	17.2	18.3	17.6	18.7	19.0	15.9	17.0	16.3	17.3	17.7
	17.3	18.2	17.7	18.6	19.0	15.9	16.9	16.3	17.2	17.6
	17.3	18.2	17.7	18.6	19.0	15.9	16.8	16.3	17.2	17.6
	17.3	18.1	17.8	18.5	19.0	15.9	16.7	16.3	17.1	17.6
	17.3	18.1	17.8	18.5	19.0	15.9	16.7	16.4	17.1	17.5
	17.4	18.1	17.8	18.6	19.0	15.9	16.7	16.4	17.1	17.5
X=4H Y=2H	17.1	18.0	17.5	18.3	18.8	15.7	16.6	16.2	17.0	17.4
	17.1	17.9	17.6	18.3	18.8	15.8	16.5	16.2	17.0	17.4
	17.2	17.9	17.7	18.3	18.8	15.8	16.5	16.3	16.9	17.4
	17.3	17.9	17.8	18.4	18.9	15.9	16.5	16.4	17.0	17.5
	17.4	17.9	17.9	18.4	18.9	15.9	16.5	16.4	17.0	17.5
	17.5	18.0	18.0	18.5	19.0	16.0	16.5	16.5	17.0	17.5
X=8H Y=4H	17.1	17.7	17.6	18.2	18.7	15.7	16.3	16.2	16.8	17.3
	17.3	17.8	17.8	18.3	18.9	15.9	16.3	16.4	16.9	17.4
	17.4	17.9	18.0	18.4	18.9	16.0	16.4	16.5	16.9	17.5
	17.7	18.0	18.2	18.6	19.2	16.1	16.5	16.7	17.0	17.6
X=12H Y=4H	17.1	17.6	17.6	18.1	18.6	15.7	16.2	16.2	16.7	17.2
	17.3	17.7	17.9	18.2	18.8	15.9	16.3	16.4	16.8	17.4
	17.5	17.8	18.0	18.4	19.0	16.0	16.4	16.6	16.9	17.5
Variations with the observer position at spacings										
S=1.0H	0.2/-0.2					0.3/-0.3				
S=1.5H	0.4/-0.4					0.5/-0.5				
S=2.0H	0.7/-0.6					0.8/-0.7				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	0.8					0.7				

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	C270.0
γ 0.0	1820.54	1820.54	1820.54	1820.54
γ 1.0	1834.36	1851.15	1745.45	1847.85
γ 2.0	1841.17	1814.43	1670.63	1816.46
γ 3.0	1825.65	1754.21	1584.06	1768.85
γ 4.0	1791.33	1674.23	1490.97	1704.31
γ 5.0	1742.29	1581.13	1398.12	1623.43
γ 6.0	1676.60	1487.38	1302.84	1526.59
γ 7.0	1592.79	1395.76	1212.26	1426.63
γ 8.0	1498.05	1306.97	1130.70	1333.56
γ 9.0	1400.63	1216.27	1058.25	1244.76
γ 10.0	1305.03	1127.11	995.79	1161.20
γ 11.0	1216.95	1046.37	938.57	1082.97
γ 12.0	1135.97	976.53	885.03	1015.88
γ 13.0	1064.49	920.70	838.16	955.19
γ 14.0	999.41	871.45	798.21	902.46
γ 15.0	940.15	826.30	760.03	854.74
γ 16.0	888.21	785.84	726.54	813.67
γ 17.0	843.31	749.36	693.92	775.24
γ 18.0	803.48	714.62	663.98	740.75
γ 19.0	767.88	681.57	634.29	707.58
γ 20.0	733.56	651.89	606.91	675.04
γ 21.0	701.50	623.47	578.91	644.08
γ 22.0	671.02	595.06	551.58	614.18
γ 23.0	641.31	567.09	523.01	585.34
γ 24.0	612.86	539.51	495.72	557.38
γ 25.0	584.39	512.29	469.38	529.61
γ 26.0	556.65	485.27	443.66	503.09
γ 27.0	528.28	458.98	419.83	477.57
γ 28.0	501.33	433.77	399.57	452.50
γ 29.0	475.97	411.25	381.24	429.58
γ 30.0	450.82	392.18	365.12	408.47
γ 31.0	427.10	375.39	350.28	390.79
γ 32.0	407.37	360.30	336.80	374.68
γ 33.0	390.39	346.25	323.93	359.48
γ 34.0	374.12	333.03	308.57	345.77
γ 35.0	360.38	318.76	290.53	332.66
γ 36.0	347.11	301.38	269.75	317.14
γ 37.0	333.94	281.20	247.42	299.15
γ 38.0	318.36	260.25	223.65	279.08
γ 39.0	299.90	237.41	199.18	258.10
γ 40.0	278.67	213.87	174.77	235.45
γ 41.0	255.46	190.24	150.26	212.48
γ 42.0	231.48	166.12	126.67	188.99
γ 43.0	205.90	142.63	103.93	165.46
γ 44.0	180.28	119.82	83.75	142.10
γ 45.0	155.44	98.55	66.22	118.99
γ 46.0	130.88	78.75	53.53	97.18

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	107.91	62.09	45.04	77.37
γ 48.0	86.51	49.90	39.39	61.02
γ 49.0	68.88	42.51	34.56	49.51
γ 50.0	56.12	37.54	30.22	42.75
γ 51.0	47.85	33.71	26.89	38.21
γ 52.0	42.36	30.50	24.39	34.14
γ 53.0	38.00	28.11	22.55	30.89
γ 54.0	34.03	26.03	20.98	28.36
γ 55.0	31.01	24.23	19.46	26.31
γ 56.0	28.73	22.47	18.21	24.31
γ 57.0	26.90	20.81	17.00	22.56
γ 58.0	25.08	19.43	15.88	21.13
γ 59.0	23.46	18.08	15.06	19.89
γ 60.0	22.07	16.91	14.27	18.65
γ 61.0	20.67	15.96	13.47	17.64
γ 62.0	19.47	15.00	12.76	16.77
γ 63.0	18.50	14.09	11.93	15.81
γ 64.0	17.46	13.17	11.25	15.01
γ 65.0	16.49	12.28	10.44	14.13
γ 66.0	15.54	11.41	9.78	13.37
γ 67.0	14.55	10.54	9.00	12.49
γ 68.0	13.65	9.70	8.54	11.78
γ 69.0	12.64	8.94	8.15	10.99
γ 70.0	11.79	8.41	7.77	10.38
γ 71.0	10.84	7.92	7.40	9.93
γ 72.0	10.21	7.45	7.06	9.48
γ 73.0	9.63	7.01	6.73	9.08
γ 74.0	9.10	6.63	6.38	8.69
γ 75.0	8.61	6.23	6.06	8.30
γ 76.0	8.14	5.87	5.73	7.93
γ 77.0	7.69	5.51	5.41	7.57
γ 78.0	7.26	5.16	5.10	7.20
γ 79.0	6.86	4.83	4.79	6.83
γ 80.0	6.47	4.52	4.49	6.47
γ 81.0	6.09	4.22	4.24	6.11
γ 82.0	5.74	3.95	4.00	5.80
γ 83.0	5.38	3.69	3.70	5.50
γ 84.0	5.05	3.42	3.41	5.27
γ 85.0	4.75	3.16	3.08	4.96
γ 86.0	4.45	2.81	2.64	4.62
γ 87.0	4.14	2.46	2.05	4.30
γ 88.0	3.80	2.08	1.83	3.88
γ 89.0	3.45	1.76	1.73	2.87
γ 90.0	3.00	1.59	1.64	2.50
γ 91.0	2.53	1.51	1.55	2.37
γ 92.0	2.30	1.43	1.48	2.25
γ 93.0	2.19	1.36	1.40	2.16

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	2.08	1.29	1.32	2.04
γ 95.0	1.99	1.23	1.26	1.95
γ 96.0	1.89	1.16	1.21	1.85
γ 97.0	1.80	1.10	1.15	1.77
γ 98.0	1.72	1.05	1.10	1.69
γ 99.0	1.64	0.99	1.06	1.62
γ 100.0	1.57	0.95	1.03	1.56
γ 101.0	1.51	0.92	1.00	1.50
γ 102.0	1.45	0.88	0.97	1.45
γ 103.0	1.39	0.86	0.96	1.41
γ 104.0	1.35	0.82	0.94	1.36
γ 105.0	1.30	0.80	0.94	1.34
γ 106.0	1.27	0.80	0.94	1.30
γ 107.0	1.23	0.78	0.93	1.28
γ 108.0	1.20	0.79	0.94	1.27
γ 109.0	1.18	0.78	0.95	1.25
γ 110.0	1.16	0.78	0.96	1.24
γ 111.0	1.14	0.78	0.98	1.24
γ 112.0	1.14	0.81	1.01	1.23
γ 113.0	1.13	0.81	1.04	1.25
γ 114.0	1.13	0.83	1.07	1.26
γ 115.0	1.14	0.85	1.10	1.27
γ 116.0	1.13	0.86	1.13	1.29
γ 117.0	1.14	0.90	1.18	1.33
γ 118.0	1.14	0.92	1.23	1.35
γ 119.0	1.16	0.96	1.28	1.38
γ 120.0	1.18	1.00	1.34	1.42
γ 121.0	1.21	1.04	1.40	1.45
γ 122.0	1.23	1.09	1.45	1.50
γ 123.0	1.27	1.14	1.52	1.54
γ 124.0	1.31	1.20	1.59	1.60
γ 125.0	1.35	1.26	1.67	1.66
γ 126.0	1.40	1.32	1.75	1.73
γ 127.0	1.46	1.40	1.82	1.78
γ 128.0	1.51	1.48	1.92	1.86
γ 129.0	1.58	1.56	2.00	1.92
γ 130.0	1.64	1.64	2.10	1.99
γ 131.0	1.72	1.74	2.20	2.08
γ 132.0	1.81	1.83	2.30	2.17
γ 133.0	1.89	1.94	2.41	2.25
γ 134.0	1.97	2.04	2.54	2.35
γ 135.0	2.07	2.14	2.66	2.45
γ 136.0	2.17	2.26	2.77	2.56
γ 137.0	2.27	2.37	2.90	2.67
γ 138.0	2.37	2.49	3.03	2.79
γ 139.0	2.48	2.61	3.15	2.92
γ 140.0	2.58	2.73	3.27	3.04

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	2.70	2.85	3.39	3.16
γ 142.0	2.82	2.98	3.50	3.28
γ 143.0	2.94	3.10	3.61	3.39
γ 144.0	3.06	3.21	3.73	3.50
γ 145.0	3.17	3.33	3.83	3.61
γ 146.0	3.29	3.44	3.94	3.71
γ 147.0	3.40	3.55	4.03	3.82
γ 148.0	3.50	3.65	4.12	3.92
γ 149.0	3.61	3.77	4.22	4.02
γ 150.0	3.73	3.87	4.30	4.11
γ 151.0	3.83	3.97	4.37	4.20
γ 152.0	3.93	4.06	4.46	4.29
γ 153.0	4.03	4.16	4.55	4.38
γ 154.0	4.12	4.25	4.63	4.46
γ 155.0	4.22	4.33	4.72	4.53
γ 156.0	4.31	4.42	4.80	4.61
γ 157.0	4.41	4.51	4.87	4.69
γ 158.0	4.49	4.58	4.94	4.76
γ 159.0	4.59	4.66	5.00	4.84
γ 160.0	4.67	4.75	5.07	4.90
γ 161.0	4.76	4.83	5.13	4.97
γ 162.0	4.84	4.90	5.20	5.05
γ 163.0	4.92	4.97	5.26	5.11
γ 164.0	4.98	5.05	5.32	5.17
γ 165.0	5.07	5.12	5.37	5.23
γ 166.0	5.14	5.19	5.42	5.29
γ 167.0	5.20	5.26	5.47	5.35
γ 168.0	5.28	5.32	5.51	5.41
γ 169.0	5.34	5.37	5.56	5.46
γ 170.0	5.40	5.43	5.59	5.51
γ 171.0	5.46	5.48	5.63	5.57
γ 172.0	5.51	5.53	5.65	5.61
γ 173.0	5.56	5.56	5.67	5.64
γ 174.0	5.60	5.61	5.70	5.68
γ 175.0	5.64	5.63	5.71	5.72
γ 176.0	5.67	5.66	5.72	5.74
γ 177.0	5.69	5.68	5.73	5.77
γ 178.0	5.73	5.70	5.74	5.78
γ 179.0	5.73	5.73	5.74	5.80
γ 180.0	5.75	5.75	5.75	5.75