

Indoor Luminaire Photometric Data

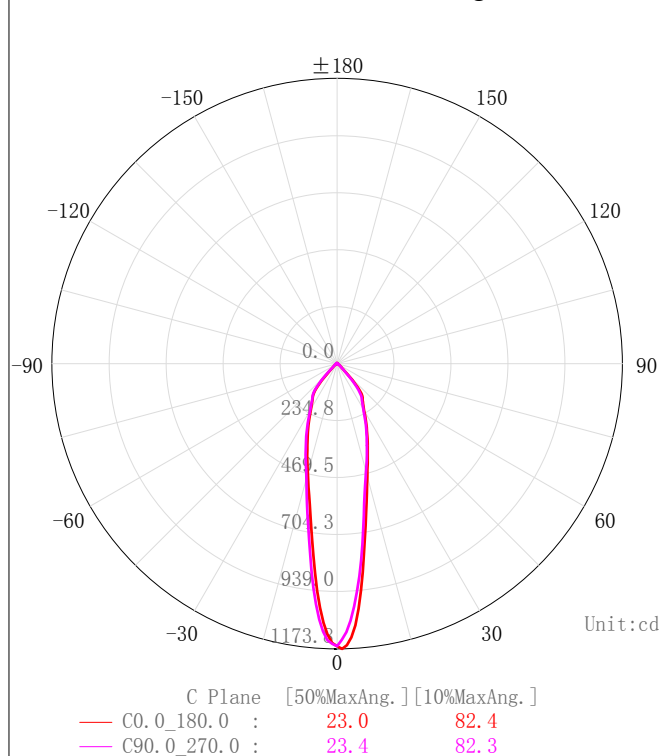
Description Information

Luminary Name: HCP-809024-3000K RA90 28D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2020/09/22
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 (m2): 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

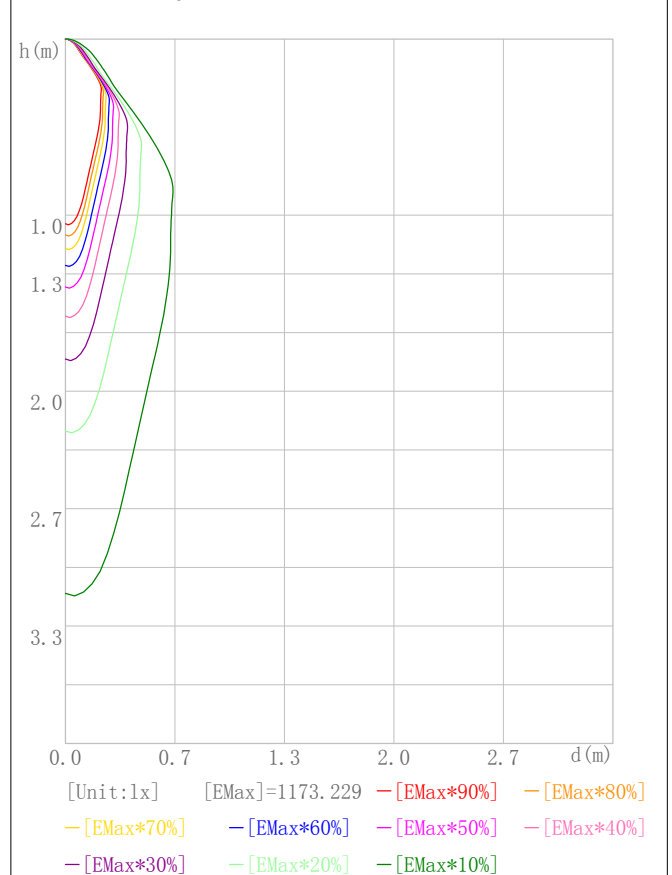
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 529.560	Luminary Flux(lm): 529.563	Field Angle(10%Imax): 82.4(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 526.965lm 99.51%
Rated Voltage(V):	Luminary EER(lm/W): 60.695	Up Lumens&Percent: 2.597lm 0.49%
Tested Power(W): 8.725	Max. Candela(cd): 1173.765	S/MH: C0_a180=0.383 C90_270=0.387
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf): 240.4, 0.039, 0.909	Beam Angle(50%Imax): 23.0(°)	ErP Φ use(90°): 487.045lm
Lamp Size (W*L*H): 0.050m*0.000m*0.080m	Left=-11.0°, Right=11.9°	IRF (%): 471.618

C Plane Distribution Diagram



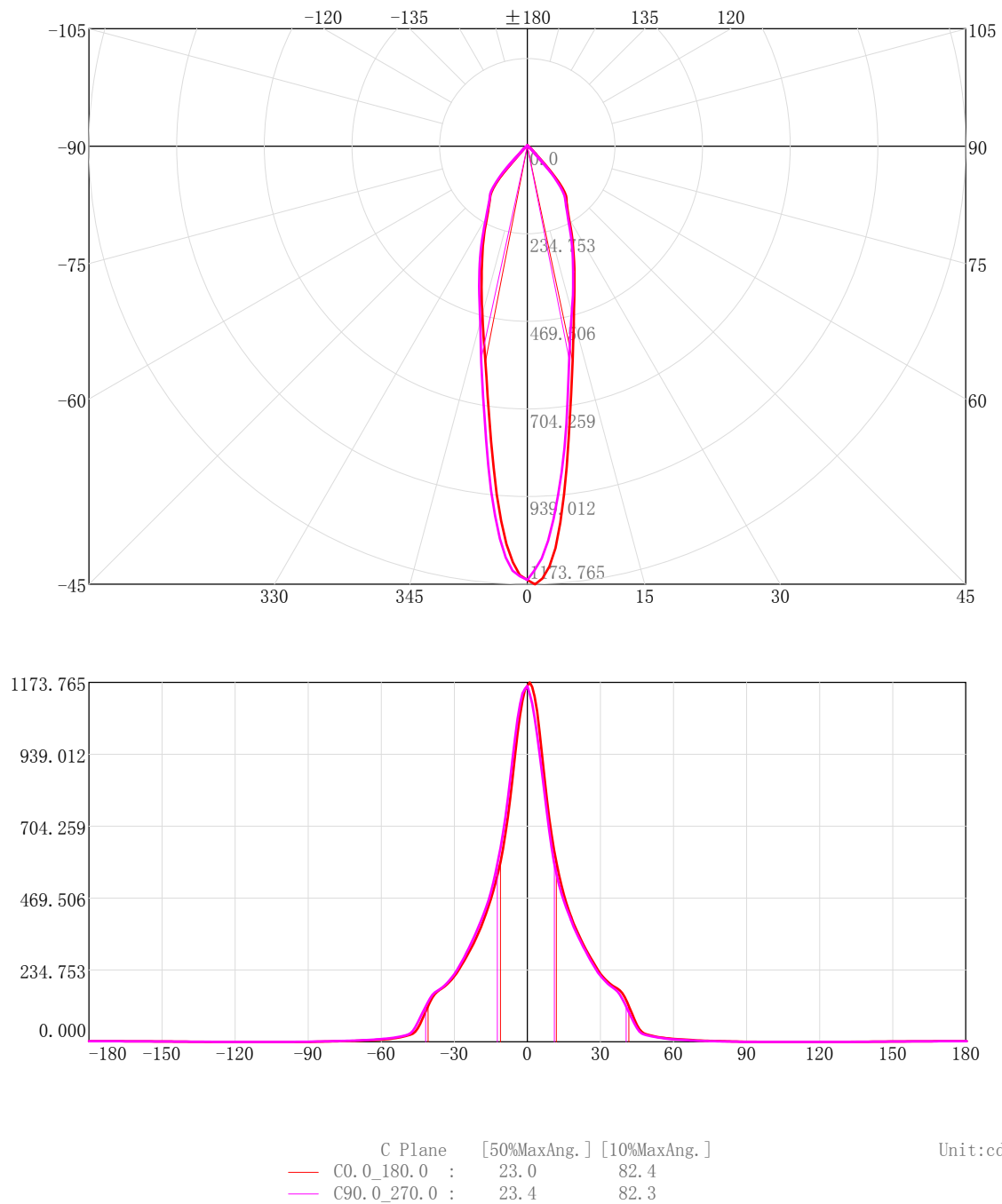
C0 Space ISO Illuminance Curve



2D Plane Light Intensity Distribution Curve

Lum. Name: HCP-809024-3000K 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: 2020/09/22

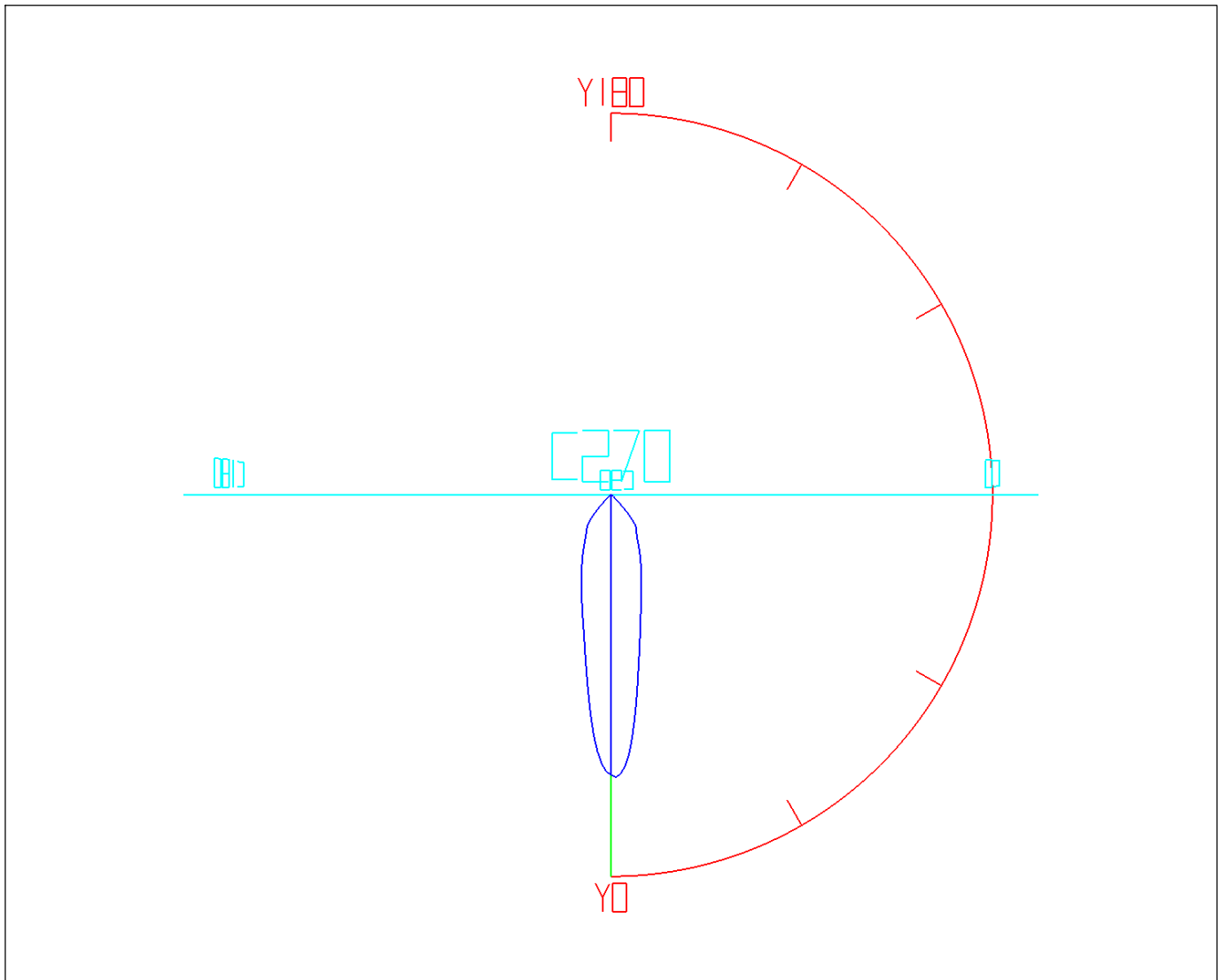
C Plane Distribution Diagram



3D Light Intensity Distribution Modal

Lum. Name: HCP-809024-3000K 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: 2020/09/22

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	1.11	1.11	0.21	0.21	47.0-48.0	2.29	500.34	0.43	94.48
1.0-2.0	3.28	4.38	0.62	0.83	48.0-49.0	2.00	502.34	0.38	94.86
2.0-3.0	5.31	9.69	1.00	1.83	49.0-50.0	1.82	504.16	0.34	95.20
3.0-4.0	7.11	16.80	1.34	3.17	50.0-51.0	1.68	505.84	0.32	95.52
4.0-5.0	8.63	25.43	1.63	4.80	51.0-52.0	1.55	507.39	0.29	95.81
5.0-6.0	9.85	35.28	1.86	6.66	52.0-53.0	1.42	508.81	0.27	96.08
6.0-7.0	10.78	46.06	2.04	8.70	53.0-54.0	1.30	510.11	0.25	96.33
7.0-8.0	11.47	57.53	2.17	10.86	54.0-55.0	1.21	511.32	0.23	96.56
8.0-9.0	11.97	69.50	2.26	13.12	55.0-56.0	1.13	512.45	0.21	96.77
9.0-10.0	12.34	81.84	2.33	15.45	56.0-57.0	1.05	513.49	0.20	96.97
10.0-11.0	12.63	94.47	2.39	17.84	57.0-58.0	0.98	514.47	0.19	97.15
11.0-12.0	12.87	107.35	2.43	20.27	58.0-59.0	0.92	515.39	0.17	97.32
12.0-13.0	13.08	120.42	2.47	22.74	59.0-60.0	0.86	516.25	0.16	97.49
13.0-14.0	13.24	133.67	2.50	25.24	60.0-61.0	0.81	517.06	0.15	97.64
14.0-15.0	13.39	147.05	2.53	27.77	61.0-62.0	0.77	517.83	0.14	97.78
15.0-16.0	13.51	160.56	2.55	30.32	62.0-63.0	0.73	518.55	0.14	97.92
16.0-17.0	13.62	174.17	2.57	32.89	63.0-64.0	0.69	519.24	0.13	98.05
17.0-18.0	13.70	187.87	2.59	35.48	64.0-65.0	0.65	519.89	0.12	98.17
18.0-19.0	13.72	201.59	2.59	38.07	65.0-66.0	0.61	520.50	0.11	98.29
19.0-20.0	13.71	215.30	2.59	40.66	66.0-67.0	0.57	521.07	0.11	98.40
20.0-21.0	13.68	228.97	2.58	43.24	67.0-68.0	0.52	521.59	0.10	98.49
21.0-22.0	13.62	242.59	2.57	45.81	68.0-69.0	0.48	522.07	0.09	98.59
22.0-23.0	13.53	256.13	2.56	48.37	69.0-70.0	0.44	522.51	0.08	98.67
23.0-24.0	13.42	269.55	2.53	50.90	70.0-71.0	0.41	522.93	0.08	98.75
24.0-25.0	13.27	282.82	2.51	53.41	71.0-72.0	0.39	523.32	0.07	98.82
25.0-26.0	13.09	295.91	2.47	55.88	72.0-73.0	0.37	523.68	0.07	98.89
26.0-27.0	12.86	308.77	2.43	58.31	73.0-74.0	0.35	524.03	0.07	98.96
27.0-28.0	12.61	321.39	2.38	60.69	74.0-75.0	0.33	524.36	0.06	99.02
28.0-29.0	12.34	333.73	2.33	63.02	75.0-76.0	0.31	524.66	0.06	99.08
29.0-30.0	12.09	345.82	2.28	65.30	76.0-77.0	0.29	524.95	0.05	99.13
30.0-31.0	11.88	357.70	2.24	67.55	77.0-78.0	0.27	525.22	0.05	99.18
31.0-32.0	11.70	369.40	2.21	69.76	78.0-79.0	0.25	525.46	0.05	99.23
32.0-33.0	11.53	380.94	2.18	71.93	79.0-80.0	0.23	525.69	0.04	99.27
33.0-34.0	11.39	392.32	2.15	74.08	80.0-81.0	0.21	525.90	0.04	99.31
34.0-35.0	11.27	403.59	2.13	76.21	81.0-82.0	0.19	526.09	0.04	99.35
35.0-36.0	11.18	414.78	2.11	78.32	82.0-83.0	0.17	526.27	0.03	99.38
36.0-37.0	11.09	425.87	2.09	80.42	83.0-84.0	0.16	526.42	0.03	99.41
37.0-38.0	10.92	436.79	2.06	82.48	84.0-85.0	0.14	526.56	0.03	99.43
38.0-39.0	10.56	447.34	1.99	84.47	85.0-86.0	0.12	526.69	0.02	99.46
39.0-40.0	9.95	457.29	1.88	86.35	86.0-87.0	0.10	526.79	0.02	99.48
40.0-41.0	9.09	466.38	1.72	88.07	87.0-88.0	0.08	526.87	0.02	99.49
41.0-42.0	8.06	474.44	1.52	89.59	88.0-89.0	0.06	526.93	0.01	99.50
42.0-43.0	6.92	481.37	1.31	90.90	89.0-90.0	0.04	526.97	0.01	99.51
43.0-44.0	5.73	487.10	1.08	91.98	90.0-91.0	0.03	526.99	0.01	99.52
44.0-45.0	4.58	491.68	0.86	92.85	91.0-92.0	0.02	527.02	0.00	99.52
45.0-46.0	3.57	495.25	0.67	93.52	92.0-93.0	0.02	527.04	0.00	99.52
46.0-47.0	2.80	498.04	0.53	94.05	93.0-94.0	0.02	527.05	0.00	99.53

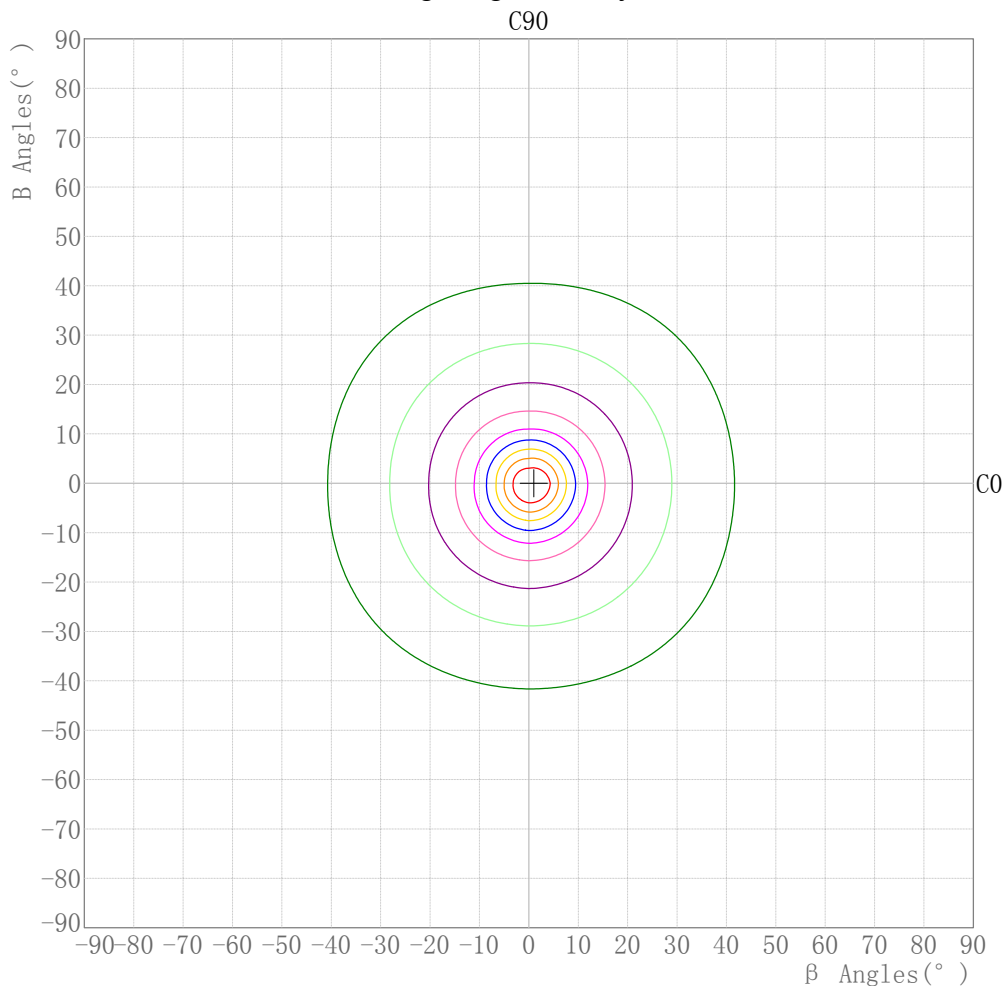
Zonal Flux Tabulation - (Cont.)

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	0.01	527.07	0.00	99.53	141.0-142.0	0.06	527.51	0.01	99.61
95.0-96.0	0.01	527.08	0.00	99.53	142.0-143.0	0.06	527.57	0.01	99.62
96.0-97.0	0.01	527.08	0.00	99.53	143.0-144.0	0.06	527.63	0.01	99.64
97.0-98.0	0.01	527.09	0.00	99.53	144.0-145.0	0.06	527.70	0.01	99.65
98.0-99.0	0.00	527.09	0.00	99.53	145.0-146.0	0.07	527.76	0.01	99.66
99.0-100.0	0.00	527.09	0.00	99.53	146.0-147.0	0.07	527.83	0.01	99.67
100.0-101.0	0.00	527.09	0.00	99.53	147.0-148.0	0.07	527.90	0.01	99.69
101.0-102.0	0.00	527.09	0.00	99.53	148.0-149.0	0.07	527.98	0.01	99.70
102.0-103.0	0.00	527.09	0.00	99.53	149.0-150.0	0.07	528.05	0.01	99.71
103.0-104.0	0.00	527.09	0.00	99.53	150.0-151.0	0.07	528.12	0.01	99.73
104.0-105.0	0.00	527.09	0.00	99.53	151.0-152.0	0.07	528.20	0.01	99.74
105.0-106.0	0.00	527.09	0.00	99.53	152.0-153.0	0.07	528.27	0.01	99.76
106.0-107.0	0.00	527.09	0.00	99.53	153.0-154.0	0.07	528.35	0.01	99.77
107.0-108.0	0.00	527.09	0.00	99.53	154.0-155.0	0.07	528.42	0.01	99.79
108.0-109.0	0.00	527.09	0.00	99.53	155.0-156.0	0.07	528.50	0.01	99.80
109.0-110.0	0.00	527.09	0.00	99.53	156.0-157.0	0.07	528.57	0.01	99.81
110.0-111.0	0.00	527.09	0.00	99.53	157.0-158.0	0.07	528.64	0.01	99.83
111.0-112.0	0.00	527.09	0.00	99.53	158.0-159.0	0.07	528.71	0.01	99.84
112.0-113.0	0.00	527.09	0.00	99.53	159.0-160.0	0.07	528.78	0.01	99.85
113.0-114.0	0.00	527.09	0.00	99.53	160.0-161.0	0.07	528.85	0.01	99.87
114.0-115.0	0.00	527.09	0.00	99.53	161.0-162.0	0.07	528.91	0.01	99.88
115.0-116.0	0.00	527.09	0.00	99.53	162.0-163.0	0.06	528.98	0.01	99.89
116.0-117.0	0.00	527.09	0.00	99.53	163.0-164.0	0.06	529.04	0.01	99.90
117.0-118.0	0.00	527.09	0.00	99.53	164.0-165.0	0.06	529.10	0.01	99.91
118.0-119.0	0.00	527.09	0.00	99.53	165.0-166.0	0.06	529.15	0.01	99.92
119.0-120.0	0.00	527.09	0.00	99.53	166.0-167.0	0.05	529.21	0.01	99.93
120.0-121.0	0.00	527.09	0.00	99.53	167.0-168.0	0.05	529.26	0.01	99.94
121.0-122.0	0.00	527.09	0.00	99.53	168.0-169.0	0.05	529.30	0.01	99.95
122.0-123.0	0.00	527.09	0.00	99.53	169.0-170.0	0.04	529.35	0.01	99.96
123.0-124.0	0.00	527.09	0.00	99.53	170.0-171.0	0.04	529.39	0.01	99.97
124.0-125.0	0.00	527.10	0.00	99.53	171.0-172.0	0.04	529.42	0.01	99.97
125.0-126.0	0.00	527.10	0.00	99.53	172.0-173.0	0.03	529.46	0.01	99.98
126.0-127.0	0.00	527.10	0.00	99.54	173.0-174.0	0.03	529.48	0.01	99.99
127.0-128.0	0.00	527.10	0.00	99.54	174.0-175.0	0.02	529.51	0.00	99.99
128.0-129.0	0.01	527.11	0.00	99.54	175.0-176.0	0.02	529.53	0.00	99.99
129.0-130.0	0.01	527.12	0.00	99.54	176.0-177.0	0.02	529.54	0.00	100.00
130.0-131.0	0.01	527.13	0.00	99.54	177.0-178.0	0.01	529.55	0.00	100.00
131.0-132.0	0.01	527.14	0.00	99.54	178.0-179.0	0.01	529.56	0.00	100.00
132.0-133.0	0.02	527.16	0.00	99.55	179.0-180.0	0.00	529.56	0.00	100.00
133.0-134.0	0.02	527.18	0.00	99.55					
134.0-135.0	0.03	527.21	0.00	99.56					
135.0-136.0	0.03	527.24	0.01	99.56					
136.0-137.0	0.03	527.27	0.01	99.57					
137.0-138.0	0.04	527.31	0.01	99.58					
138.0-139.0	0.04	527.36	0.01	99.58					
139.0-140.0	0.05	527.40	0.01	99.59					
140.0-141.0	0.05	527.45	0.01	99.60					

Rectangle ISO Lighting Intensity Diagram

Lum. Name: HCP-809024-3000K 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: 2020/09/22

ISO Lighting Intensity Curve



Curves:

[Unit: cd]

[IMax] =1173.765

— [IMax*90%]=1056.389

— [IMax*80%]=939.012

— [IMax*70%]=821.636

— [IMax*60%]=704.259

— [IMax*50%]=586.883

— [IMax*40%]=469.506

— [IMax*30%]=352.130

— [IMax*20%]=234.753

— [IMax*10%]=117.377

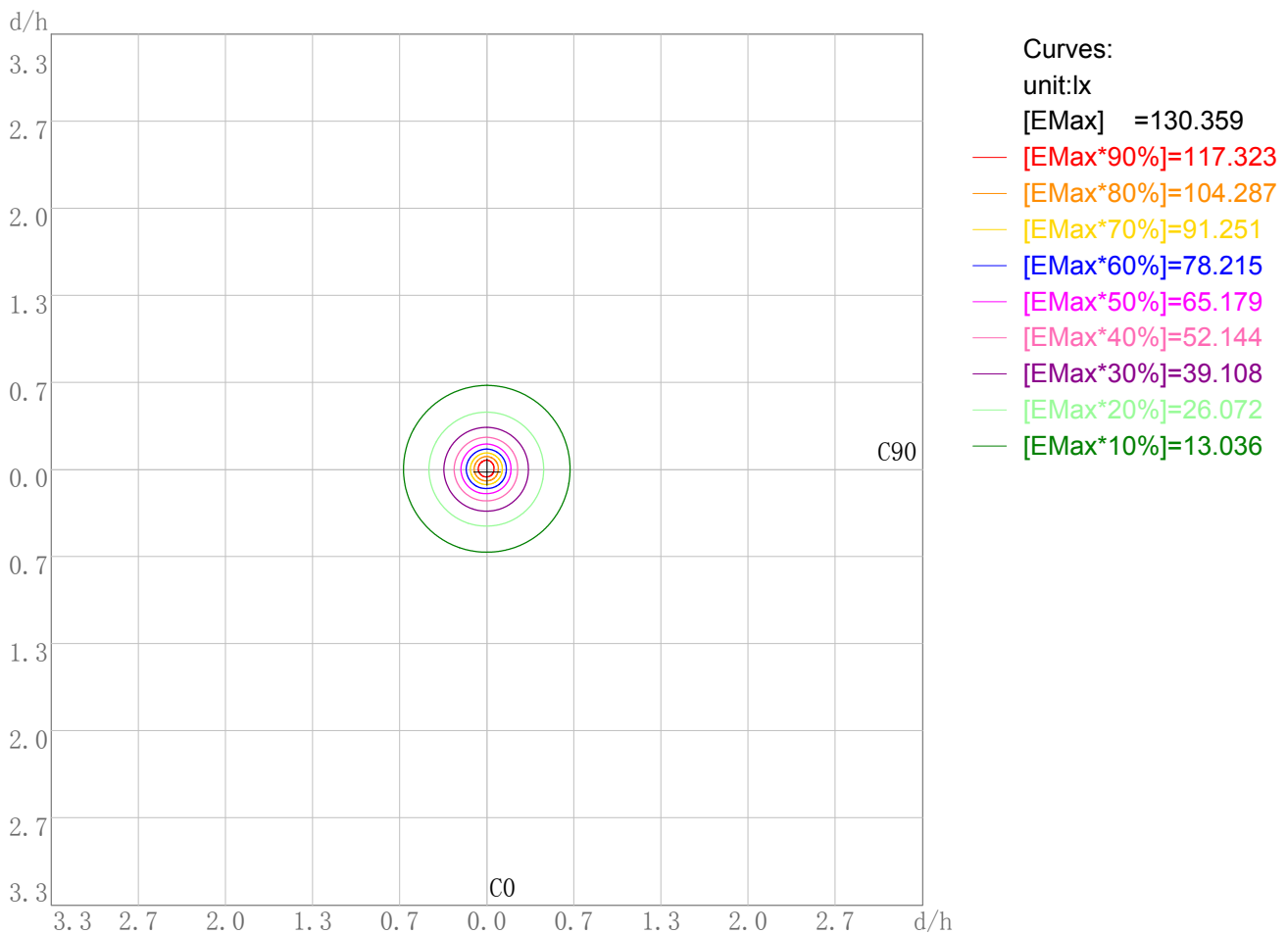
Maximum Light Intensity(cd): 1173.77

Maximum Cand.@Angle: H=1.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: HCP-809024-3000K 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: 2020/09/22

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

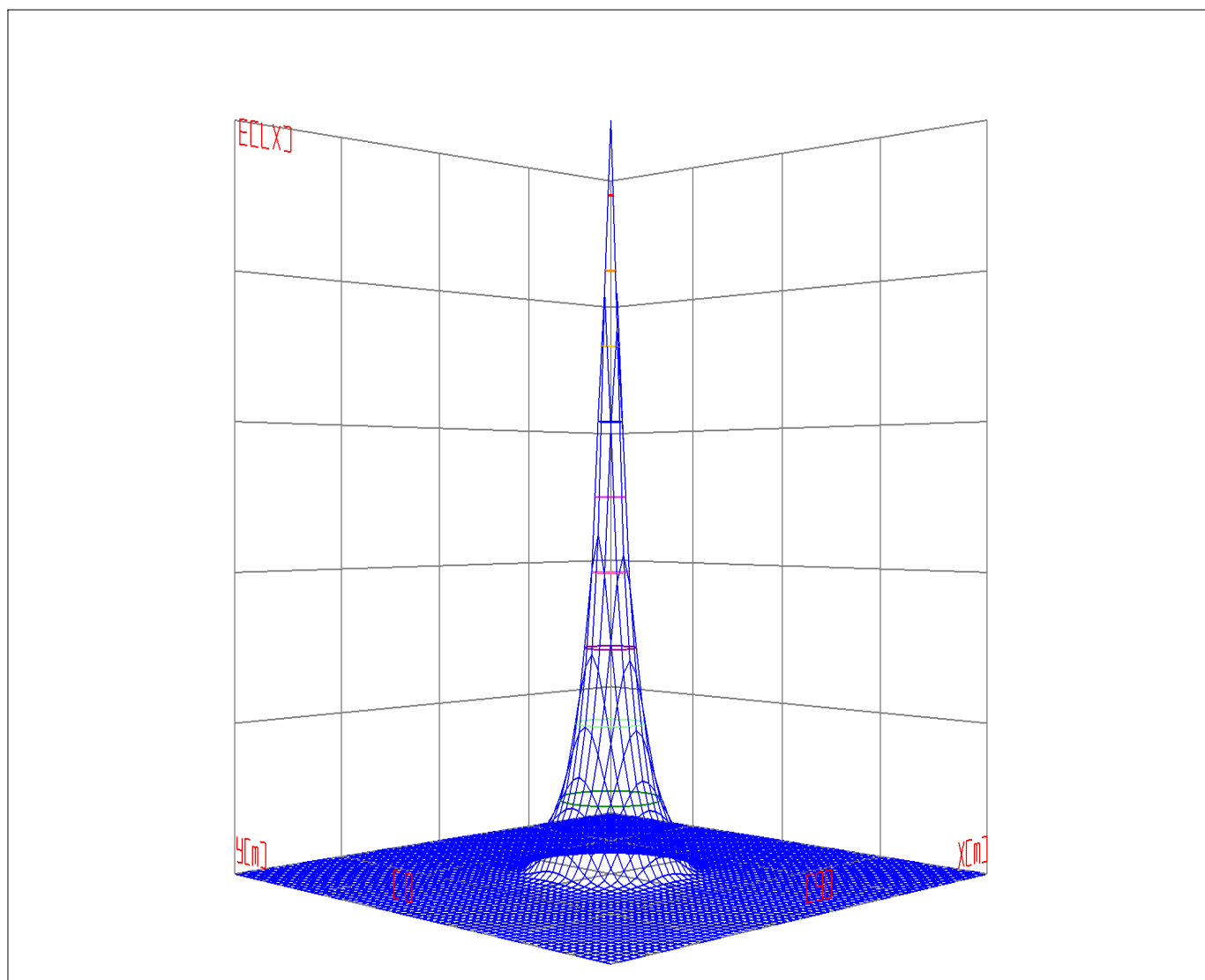
Working Plane Maximum Illuminance(lx): 130.36

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

3D Plane ISO Illuminance Diagram

Lum. Name: HCP-809024-3000K 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: 2020/09/22

3D Plane Illuminance Model

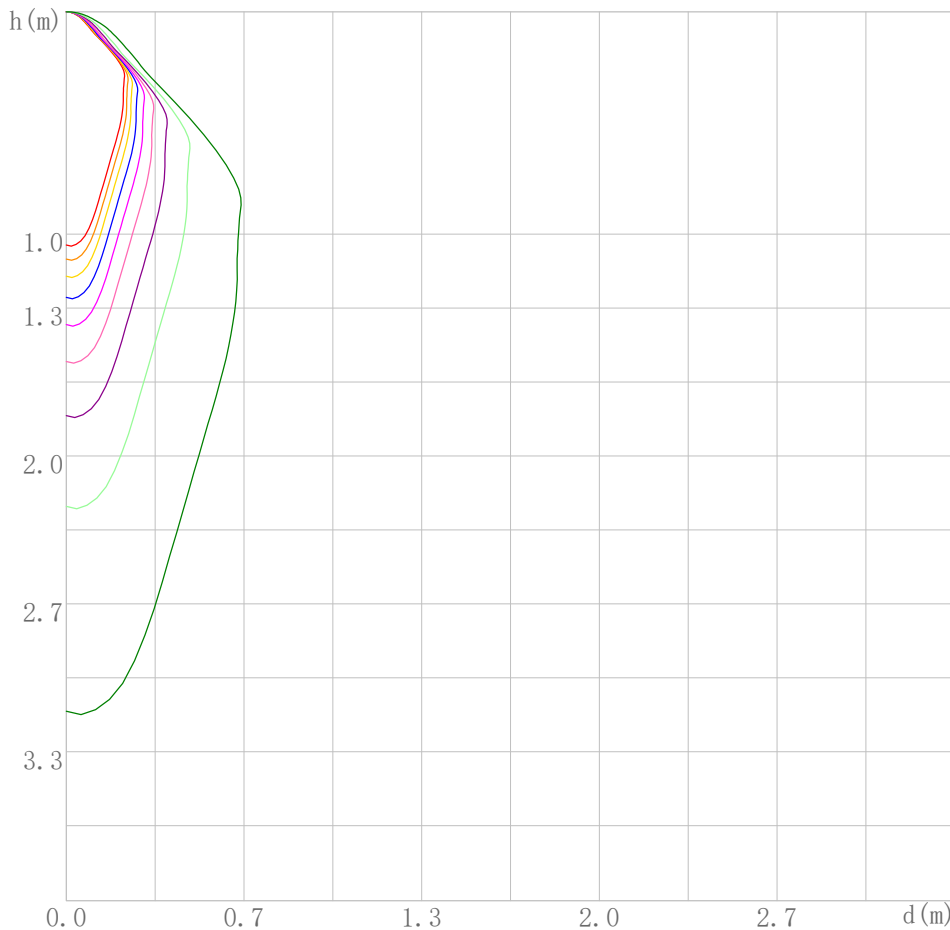


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: HCP-809024-3000K 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: 2020/09/22

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =1173.229

— [EMax*90%]=1055.906

— [EMax*80%]=938.583

— [EMax*70%]=821.260

— [EMax*60%]=703.937

— [EMax*50%]=586.614

— [EMax*40%]=469.292

— [EMax*30%]=351.969

— [EMax*20%]=234.646

— [EMax*10%]=117.323

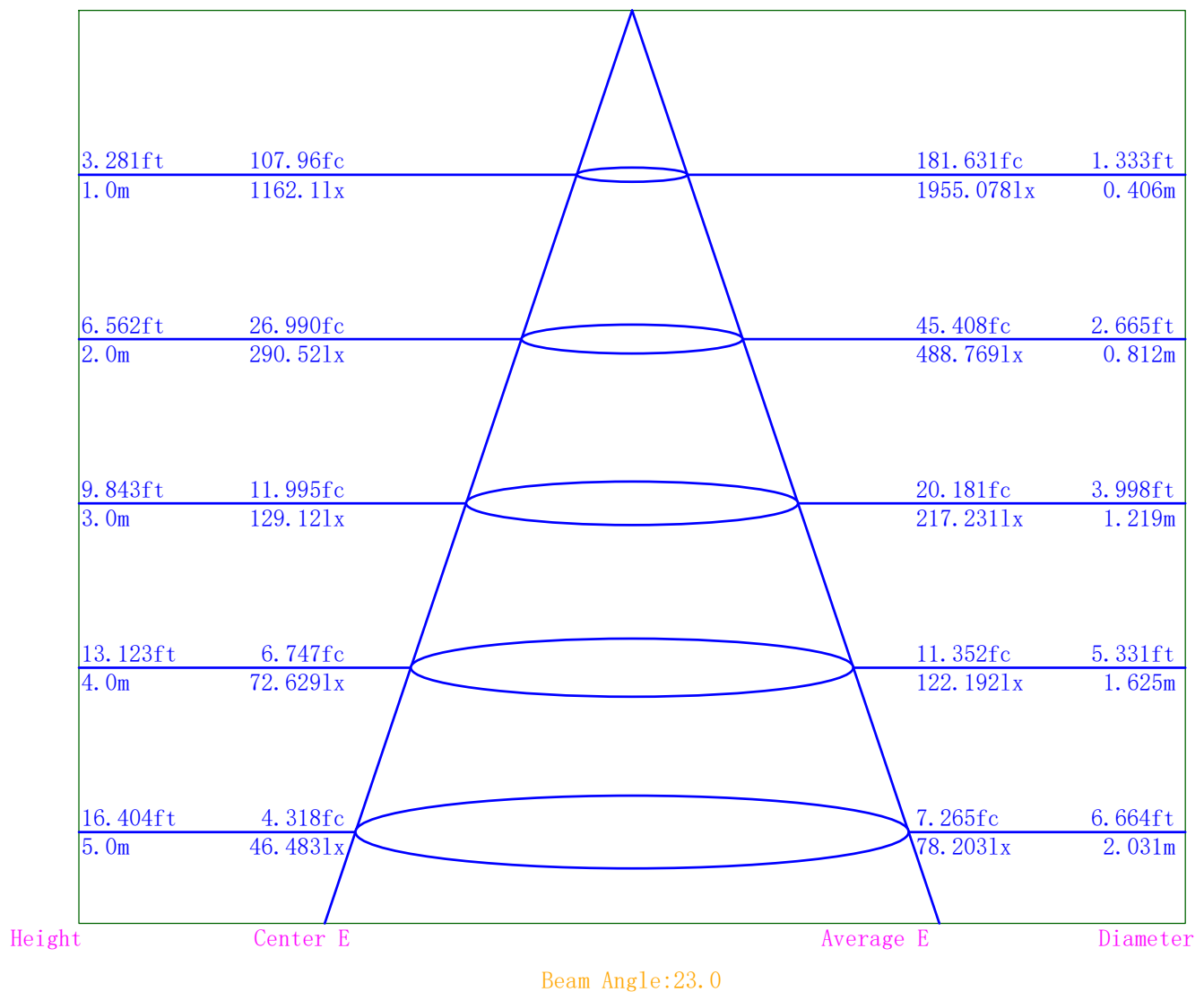
Space Plane Maximum Illuminance and @Angle:1173.23lx,1.0deg

Plane Maximum Lighting Intensity and @Angle:1173.765cd,0deg

Illuminance-Distance Diagram

Lum. Name: HCP-809024-3000K 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: 2020/09/22

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: HCP-809024-3000K 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: 2020/09/22

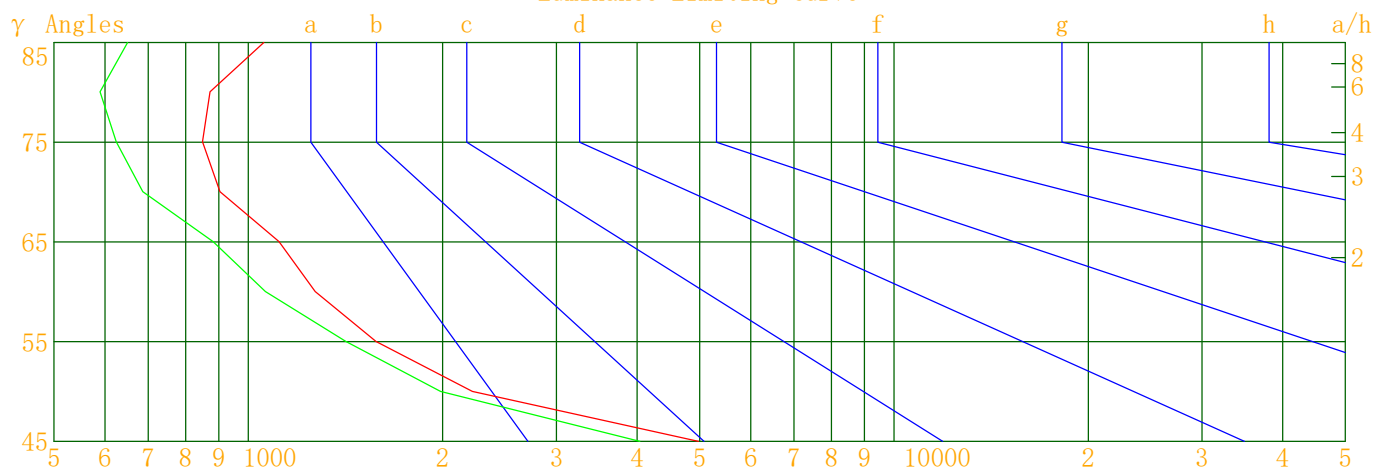
Glare Grade Table

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	4979	2224	1577	1270	1116	904	849	872	1057
C90	4041	1984	1416	1063	882	686	624	590	650

Luminance Limiting Curve



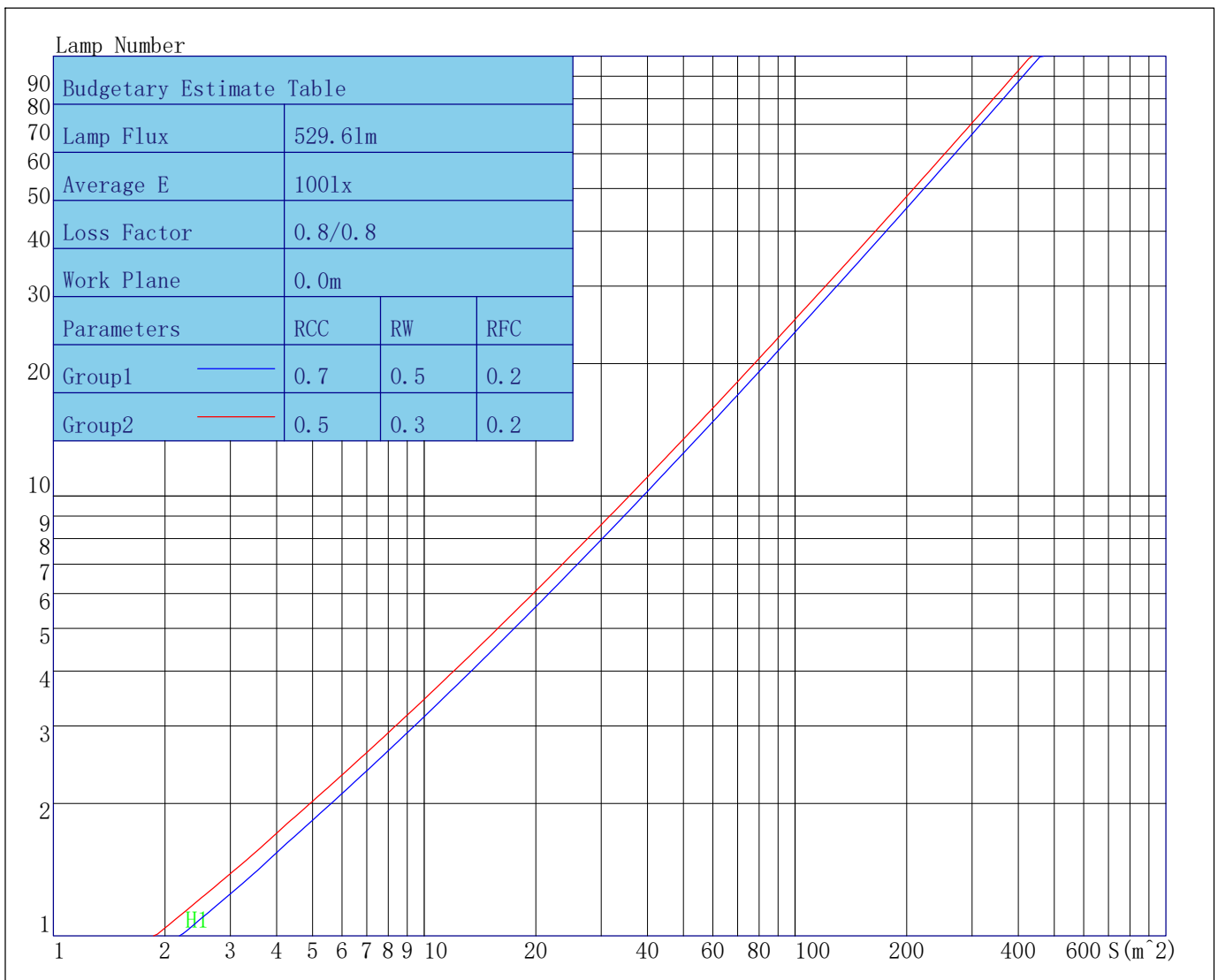
Luminous Size: Length(m)=0.000 Width(m)=0.050 Height(m)=0.080 Area(m²)=0.015708

Luminous Type: Without Luminous Side

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

Indoor Budgetary Estimate Table

Lum. Name: HCP-809024-3000K 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: 2020/09/22



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-809024-3000K 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: 2020/09/22

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	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	95	94	92
2	107	102	98	95	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	72	80	75	72	78	74	71	77	73	70	69
6	87	78	72	68	85	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	73	67	63	81	73	67	63	71	66	63	70	66	62	69	65	62	60
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	65	61	58	57
9	75	66	60	56	74	65	59	56	64	59	55	63	58	55	62	58	55	54
10	72	62	56	53	71	62	56	52	61	56	52	60	55	52	59	55	52	51

Unified Glare Rating Table

Lum. Name: HCP-809024-3000K 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: 2020/09/22

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	14.4	15.5	14.8	15.8	16.2	13.9	14.9	14.2	15.2	15.6
	14.4	15.3	14.8	15.7	16.1	13.8	14.7	14.2	15.1	15.4
	14.4	15.3	14.8	15.6	16.0	13.7	14.6	14.2	15.0	15.4
	14.4	15.2	14.8	15.6	16.0	13.7	14.5	14.1	14.9	15.3
	14.4	15.1	14.8	15.5	15.9	13.7	14.4	14.1	14.8	15.2
	14.4	15.1	14.8	15.5	15.9	13.6	14.3	14.1	14.7	15.2
X=4H Y=2H	14.2	15.1	14.7	15.5	15.9	13.7	14.5	14.1	14.9	15.3
	14.3	15.0	14.7	15.4	15.8	13.6	14.3	14.1	14.8	15.2
	14.3	14.9	14.7	15.3	15.8	13.6	14.2	14.1	14.7	15.1
	14.3	14.9	14.8	15.3	15.8	13.6	14.1	14.1	14.6	15.1
	14.3	14.8	14.8	15.3	15.8	13.6	14.1	14.0	14.5	15.0
	14.3	14.8	14.8	15.3	15.8	13.5	14.0	14.0	14.5	15.0
X=8H Y=4H	14.2	14.7	14.7	15.1	15.6	13.5	14.0	14.0	14.5	14.9
	14.2	14.7	14.8	15.2	15.7	13.5	13.9	14.0	14.4	15.0
	14.3	14.7	14.8	15.2	15.7	13.5	13.9	14.0	14.4	14.9
	14.4	14.7	14.9	15.2	15.8	13.5	13.8	14.0	14.3	14.9
X=12H Y=4H	14.1	14.6	14.6	15.1	15.6	13.4	13.9	13.9	14.4	14.9
	14.2	14.6	14.7	15.1	15.6	13.5	13.8	14.0	14.3	14.9
	14.3	14.6	14.8	15.1	15.7	13.5	13.8	14.0	14.3	14.9
Variations with the observer position at spacings										
S=1.0H	0.3/−0.3					0.4/−0.4				
S=1.5H	0.6/−0.6					0.7/−0.8				
S=2.0H	1.1/−0.9					1.3/−1.2				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	0.5					0.4				

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	1162.06	1162.06	1162.06	1162.06
γ 1.0	1173.77	1135.49	1149.24	1152.25
γ 2.0	1159.00	1105.09	1114.99	1137.84
γ 3.0	1127.77	1058.55	1067.52	1103.39
γ 4.0	1079.22	1001.86	1006.36	1054.29
γ 5.0	1012.20	940.98	937.54	993.36
γ 6.0	938.47	879.15	865.00	928.14
γ 7.0	865.38	815.36	796.61	859.87
γ 8.0	794.44	750.99	733.71	794.07
γ 9.0	729.66	689.36	679.95	733.75
γ 10.0	675.49	633.93	630.33	682.32
γ 11.0	626.36	585.71	588.50	634.88
γ 12.0	583.31	546.68	552.48	593.07
γ 13.0	544.55	512.54	520.94	554.05
γ 14.0	511.17	484.88	492.05	518.48
γ 15.0	480.73	460.06	465.19	487.52
γ 16.0	453.64	437.48	441.65	460.73
γ 17.0	430.11	417.43	418.57	437.96
γ 18.0	408.05	396.97	396.97	416.58
γ 19.0	387.11	376.11	375.69	396.57
γ 20.0	368.30	358.03	356.96	376.67
γ 21.0	351.22	341.37	339.28	357.64
γ 22.0	333.91	325.51	322.19	340.13
γ 23.0	317.65	309.67	307.27	323.59
γ 24.0	302.57	295.32	292.55	306.76
γ 25.0	288.41	280.42	277.83	291.26
γ 26.0	274.58	265.91	263.91	275.35
γ 27.0	260.66	251.87	250.51	260.23
γ 28.0	247.50	238.73	236.87	246.26
γ 29.0	234.18	225.91	224.57	233.12
γ 30.0	222.22	216.07	214.26	220.88
γ 31.0	213.03	206.70	204.26	210.44
γ 32.0	204.06	198.34	195.85	201.05
γ 33.0	196.68	190.20	187.70	192.24
γ 34.0	189.62	183.58	180.81	184.30
γ 35.0	183.43	177.55	174.85	177.30
γ 36.0	178.73	171.83	169.67	171.47
γ 37.0	174.06	164.59	163.76	166.47
γ 38.0	168.03	153.96	156.01	161.43
γ 39.0	159.12	140.28	144.61	153.62
γ 40.0	146.08	125.24	130.08	141.71
γ 41.0	129.79	108.60	112.69	127.14
γ 42.0	111.01	91.72	94.56	111.98
γ 43.0	91.73	74.93	76.04	95.77
γ 44.0	72.39	58.73	58.66	79.24
γ 45.0	55.31	44.88	44.07	63.04
γ 46.0	41.88	34.09	33.49	48.30

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	32.75	27.54	27.06	36.15
γ 48.0	27.58	24.11	23.53	28.23
γ 49.0	24.59	21.95	21.20	24.00
γ 50.0	22.46	20.04	19.18	21.56
γ 51.0	20.50	18.25	17.28	19.61
γ 52.0	18.62	16.64	15.37	17.81
γ 53.0	16.82	15.14	13.86	16.07
γ 54.0	15.28	13.87	12.59	14.69
γ 55.0	14.21	12.76	11.46	13.56
γ 56.0	13.26	11.58	10.27	12.60
γ 57.0	12.29	10.57	9.43	11.72
γ 58.0	11.49	9.76	8.67	10.85
γ 59.0	10.74	8.99	7.99	10.09
γ 60.0	9.97	8.35	7.36	9.31
γ 61.0	9.39	7.83	6.91	8.66
γ 62.0	8.94	7.34	6.46	8.13
γ 63.0	8.39	6.83	6.06	7.61
γ 64.0	7.96	6.36	5.71	7.13
γ 65.0	7.41	5.85	5.30	6.68
γ 66.0	6.94	5.38	4.96	6.24
γ 67.0	6.36	4.87	4.49	5.81
γ 68.0	5.86	4.42	4.14	5.35
γ 69.0	5.27	3.97	3.71	4.95
γ 70.0	4.86	3.69	3.50	4.51
γ 71.0	4.52	3.43	3.29	4.26
γ 72.0	4.22	3.19	3.11	4.01
γ 73.0	3.94	2.97	2.92	3.79
γ 74.0	3.68	2.75	2.74	3.58
γ 75.0	3.45	2.54	2.57	3.39
γ 76.0	3.22	2.35	2.39	3.19
γ 77.0	2.99	2.15	2.21	2.99
γ 78.0	2.78	1.97	2.04	2.80
γ 79.0	2.58	1.78	1.88	2.61
γ 80.0	2.38	1.61	1.71	2.41
γ 81.0	2.17	1.45	1.53	2.21
γ 82.0	1.98	1.30	1.38	2.02
γ 83.0	1.80	1.19	1.25	1.85
γ 84.0	1.62	1.06	1.14	1.67
γ 85.0	1.45	0.89	1.00	1.50
γ 86.0	1.30	0.72	0.84	1.33
γ 87.0	1.11	0.50	0.66	1.18
γ 88.0	0.91	0.23	0.41	1.00
γ 89.0	0.64	0.00	0.13	0.77
γ 90.0	0.48	0.00	0.04	0.59
γ 91.0	0.41	0.00	0.00	0.50
γ 92.0	0.35	0.00	0.00	0.44
γ 93.0	0.29	0.00	0.00	0.37

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	0.24	0.00	0.00	0.31
γ 95.0	0.19	0.00	0.00	0.26
γ 96.0	0.13	0.00	0.00	0.20
γ 97.0	0.09	0.00	0.00	0.16
γ 98.0	0.05	0.00	0.00	0.10
γ 99.0	0.01	0.00	0.00	0.06
γ 100.0	0.00	0.00	0.00	0.03
γ 101.0	0.00	0.00	0.00	0.00
γ 102.0	0.00	0.00	0.00	0.00
γ 103.0	0.00	0.00	0.00	0.00
γ 104.0	0.00	0.00	0.00	0.00
γ 105.0	0.00	0.00	0.00	0.00
γ 106.0	0.00	0.00	0.00	0.00
γ 107.0	0.00	0.00	0.00	0.00
γ 108.0	0.00	0.00	0.00	0.00
γ 109.0	0.00	0.00	0.00	0.00
γ 110.0	0.00	0.00	0.00	0.00
γ 111.0	0.00	0.00	0.00	0.00
γ 112.0	0.00	0.00	0.00	0.00
γ 113.0	0.00	0.00	0.00	0.00
γ 114.0	0.00	0.00	0.00	0.00
γ 115.0	0.00	0.00	0.00	0.00
γ 116.0	0.00	0.00	0.00	0.00
γ 117.0	0.00	0.00	0.00	0.00
γ 118.0	0.00	0.00	0.00	0.00
γ 119.0	0.00	0.00	0.00	0.00
γ 120.0	0.00	0.00	0.00	0.00
γ 121.0	0.00	0.00	0.00	0.00
γ 122.0	0.00	0.00	0.00	0.00
γ 123.0	0.00	0.00	0.00	0.00
γ 124.0	0.00	0.00	0.00	0.01
γ 125.0	0.00	0.00	0.00	0.04
γ 126.0	0.00	0.00	0.00	0.08
γ 127.0	0.00	0.00	0.00	0.11
γ 128.0	0.01	0.00	0.02	0.15
γ 129.0	0.06	0.00	0.07	0.19
γ 130.0	0.10	0.00	0.12	0.23
γ 131.0	0.14	0.00	0.17	0.26
γ 132.0	0.19	0.06	0.22	0.31
γ 133.0	0.25	0.12	0.28	0.37
γ 134.0	0.29	0.17	0.34	0.42
γ 135.0	0.35	0.23	0.41	0.48
γ 136.0	0.41	0.30	0.48	0.54
γ 137.0	0.47	0.36	0.54	0.60
γ 138.0	0.54	0.44	0.61	0.66
γ 139.0	0.61	0.49	0.69	0.74
γ 140.0	0.67	0.58	0.77	0.80

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	0.74	0.64	0.83	0.88
γ 142.0	0.81	0.71	0.92	0.95
γ 143.0	0.88	0.78	0.99	1.02
γ 144.0	0.94	0.86	1.05	1.08
γ 145.0	1.01	0.92	1.12	1.14
γ 146.0	1.08	0.99	1.19	1.21
γ 147.0	1.13	1.05	1.25	1.26
γ 148.0	1.20	1.12	1.30	1.31
γ 149.0	1.26	1.18	1.36	1.37
γ 150.0	1.31	1.23	1.41	1.43
γ 151.0	1.38	1.29	1.46	1.48
γ 152.0	1.44	1.34	1.52	1.52
γ 153.0	1.49	1.39	1.56	1.56
γ 154.0	1.54	1.44	1.63	1.61
γ 155.0	1.60	1.50	1.67	1.66
γ 156.0	1.64	1.54	1.72	1.70
γ 157.0	1.69	1.59	1.76	1.74
γ 158.0	1.75	1.63	1.83	1.78
γ 159.0	1.79	1.68	1.84	1.82
γ 160.0	1.83	1.72	1.90	1.86
γ 161.0	1.89	1.76	1.94	1.89
γ 162.0	1.92	1.82	1.97	1.93
γ 163.0	1.96	1.85	2.01	1.96
γ 164.0	2.02	1.90	2.05	2.00
γ 165.0	2.05	1.94	2.08	2.03
γ 166.0	2.08	1.98	2.12	2.06
γ 167.0	2.12	2.02	2.15	2.09
γ 168.0	2.15	2.05	2.18	2.12
γ 169.0	2.19	2.09	2.20	2.15
γ 170.0	2.21	2.12	2.23	2.17
γ 171.0	2.24	2.14	2.24	2.19
γ 172.0	2.26	2.17	2.26	2.22
γ 173.0	2.28	2.19	2.28	2.25
γ 174.0	2.31	2.21	2.29	2.26
γ 175.0	2.32	2.22	2.31	2.28
γ 176.0	2.33	2.24	2.32	2.29
γ 177.0	2.34	2.25	2.32	2.30
γ 178.0	2.34	2.27	2.32	2.31
γ 179.0	2.35	2.26	2.33	2.32
γ 180.0	2.33	2.33	2.33	2.33