

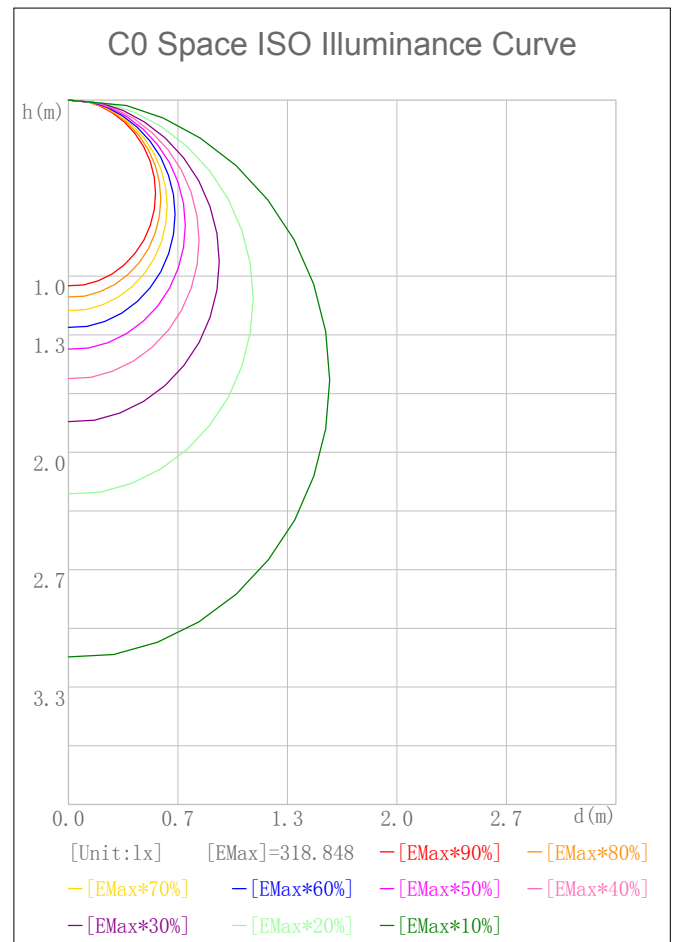
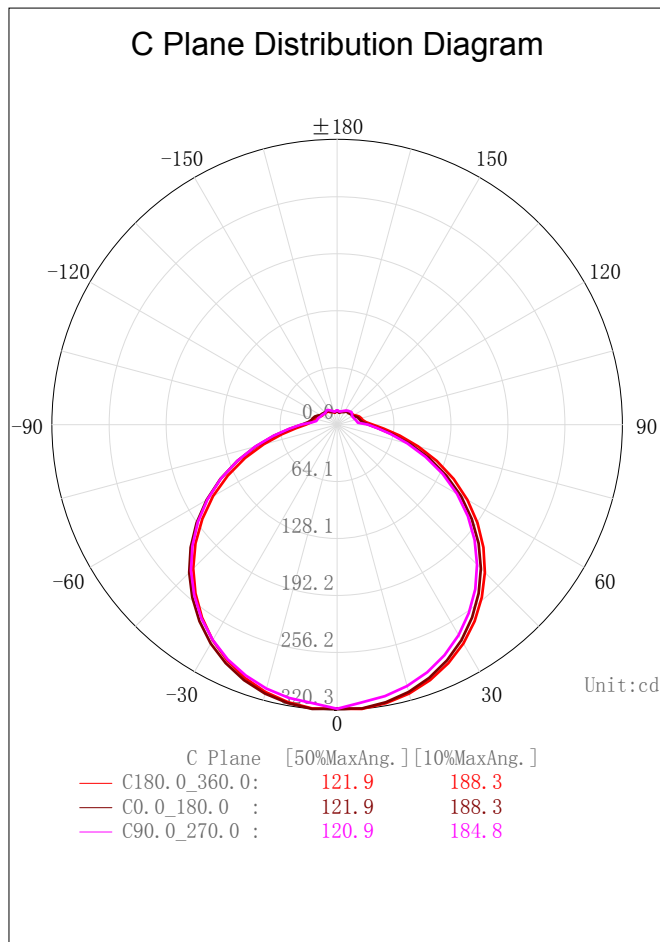
## Indoor Luminaire Photometric Data

### Description Information

Luminary Name: HV5885T-5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2021/05/15
Manufacture: HAVIT LIGHTING	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*0.000m	Lum. Area (m2): 0.002	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25
		Humidity (%): 50.0

### Character Parameter

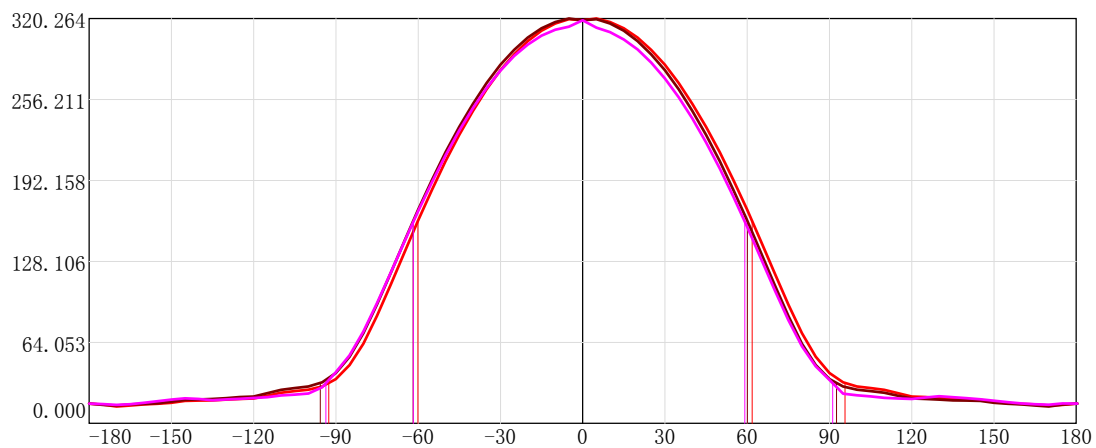
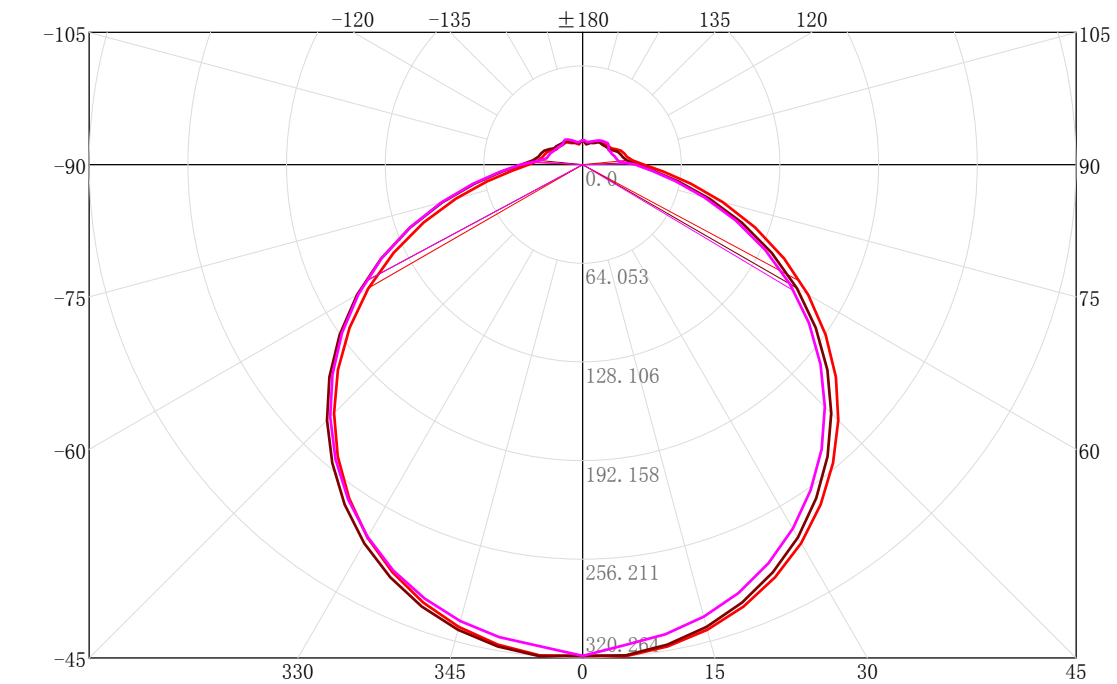
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 1185.840	Luminary Flux(lm): 1185.839	Field Angle(10%Imax): 188.3(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 1047.761lm 88.36%
Rated Voltage(V):	Luminary EER(lm/W): 70.334	Up Lumens&Percent: 138.078lm 11.64%
Tested Power(W): 16.860	Max. Candela(cd): 320.264	S/MH: C0_a180=1.311 C90_270=1.289
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=5.0	CIE Type: General Diffuse
Tested Electrics (V, A, pf): 240.1, 0.074, 0.948	Beam Angle(50%Imax): 121.9(°)	ErP Φ use(120°): 759.784lm
Lamp Size (W*L*H): 0.050m*0.000m*0.000m	Left=-60.1°, Right=61.8°	IRF (%): 103.627



## 2D Plane Light Intensity Distribution Curve

Lum. Name: HV5885T-5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: HAVIT LIGHTING	Test Machine: GON-2000	Test Date: 2021/05/15

C Plane Distribution Diagram



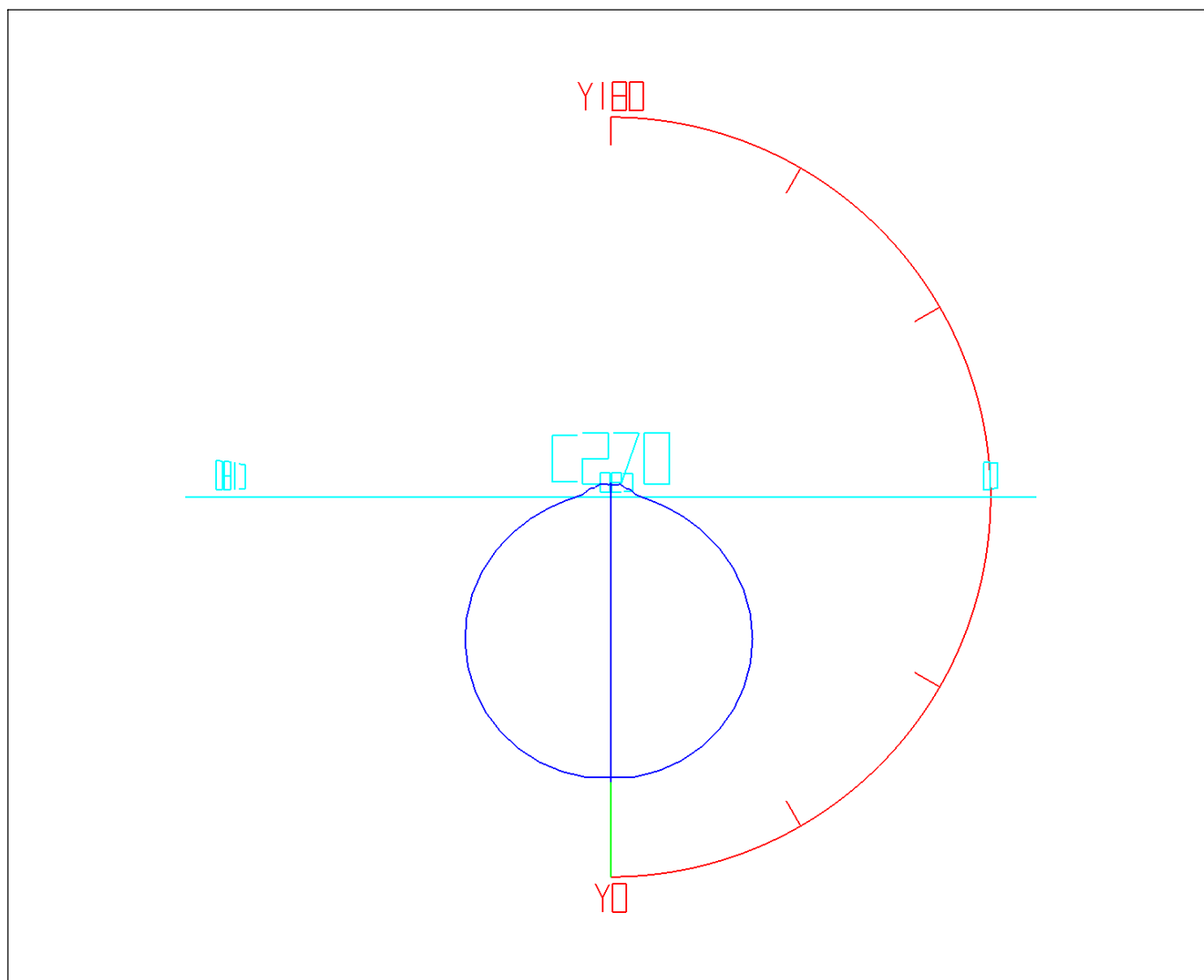
C Plane	[50%MaxAng.]	[10%MaxAng.]
C180.0_360.0 :	121.9	188.3
C0.0_180.0 :	121.9	188.3
C90.0_270.0 :	120.9	184.8

Unit:cd

### 3D Light Intensity Distribution Modal

Lum. Name: HV5885T-5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: HAVIT LIGHTING	Test Machine: GON-2000	Test Date: 2021/05/15

### 3D Light Intensity Distribution Modal



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

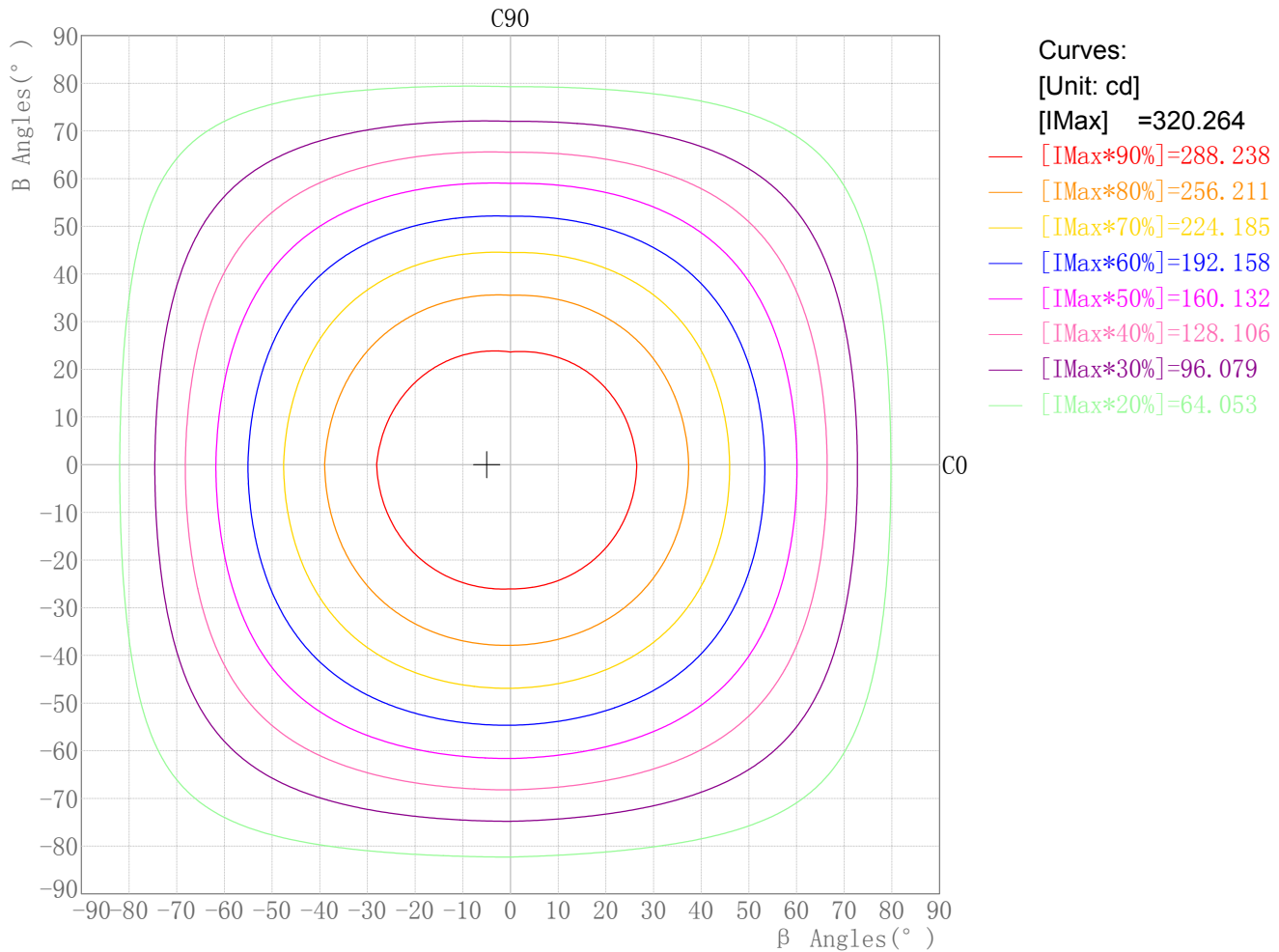
### Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	7.60	7.60	0.64	0.64
5.0-10.0	22.55	30.15	1.90	2.54
10.0-15.0	36.90	67.05	3.11	5.65
15.0-20.0	50.21	117.26	4.23	9.89
20.0-25.0	62.06	179.31	5.23	15.12
25.0-30.0	72.08	251.39	6.08	21.20
30.0-35.0	79.95	331.35	6.74	27.94
35.0-40.0	85.41	416.76	7.20	35.14
40.0-45.0	88.29	505.05	7.45	42.59
45.0-50.0	88.50	593.55	7.46	50.05
50.0-55.0	86.01	679.57	7.25	57.31
55.0-60.0	80.90	760.46	6.82	64.13
60.0-65.0	73.36	833.83	6.19	70.32
65.0-70.0	63.81	897.64	5.38	75.70
70.0-75.0	52.91	950.55	4.46	80.16
75.0-80.0	41.74	992.29	3.52	83.68
80.0-85.0	31.66	1023.95	2.67	86.35
85.0-90.0	23.81	1047.76	2.01	88.36
90.0-95.0	18.05	1065.81	1.52	89.88
95.0-100.0	14.66	1080.46	1.24	91.11
100.0-105.0	13.35	1093.82	1.13	92.24
105.0-110.0	12.48	1106.30	1.05	93.29
110.0-115.0	11.37	1117.67	0.96	94.25
115.0-120.0	10.14	1127.81	0.86	95.11
120.0-125.0	9.30	1137.11	0.78	95.89
125.0-130.0	8.68	1145.79	0.73	96.62
130.0-135.0	7.89	1153.67	0.66	97.29
135.0-140.0	7.10	1160.77	0.60	97.89
140.0-145.0	6.34	1167.11	0.53	98.42
145.0-150.0	5.37	1172.48	0.45	98.87
150.0-155.0	4.31	1176.79	0.36	99.24
155.0-160.0	3.37	1180.16	0.28	99.52
160.0-165.0	2.52	1182.69	0.21	99.73
165.0-170.0	1.73	1184.42	0.15	99.88
170.0-175.0	1.05	1185.47	0.09	99.97
175.0-180.0	0.37	1185.84	0.03	100.00

## Rectangle ISO Lighting Intensity Diagram

Lum. Name: HV5885T-5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: HAVIT LIGHTING	Test Machine: GON-2000	Test Date: 2021/05/15

### ISO Lighting Intensity Curve



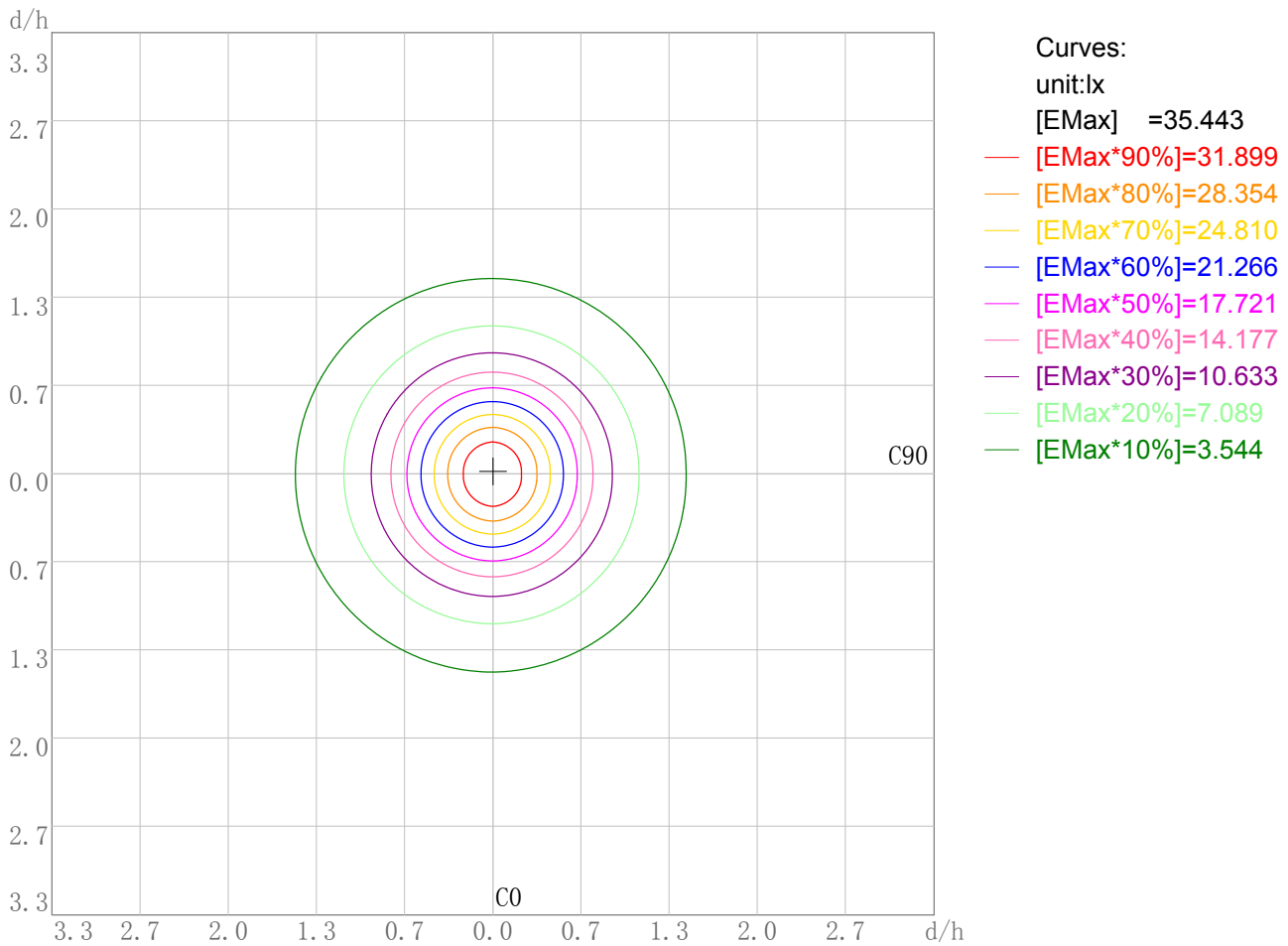
Maximum Light Intensity(cd): 320.26

Maximum Cand.@Angle: H=-5.0°,V=0.0°

### Plane ISO-Illuminance Diagram

Lum. Name: HV5885T-5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: HAVIT LIGHTING	Test Machine: GON-2000	Test Date: 2021/05/15

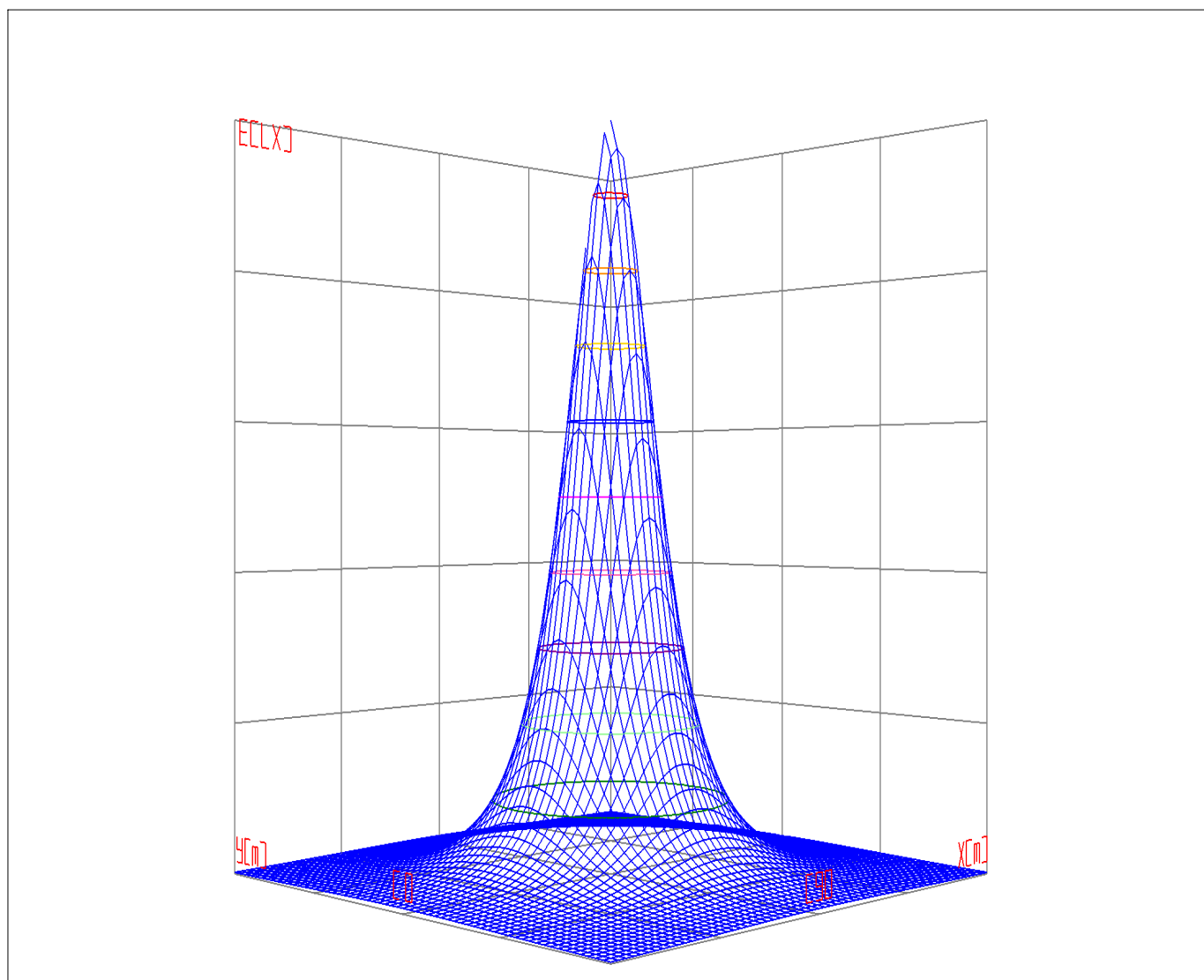
### Plane ISO-Illuminance Curve



### 3D Plane ISO Illuminance Diagram

Lum. Name: HV5885T-5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: HAVIT LIGHTING	Test Machine: GON-2000	Test Date: 2021/05/15

### 3D Plane Illuminance Modal

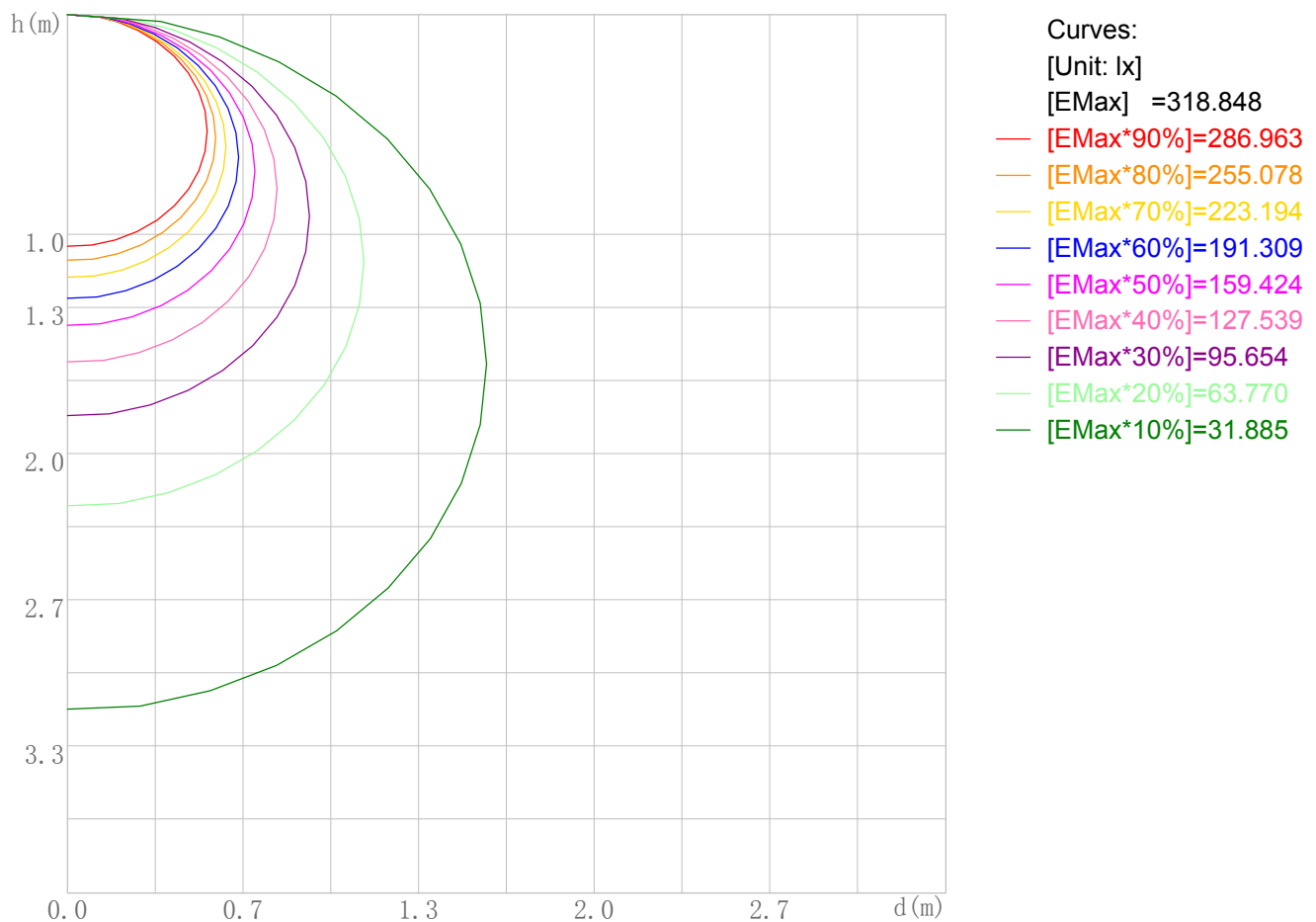


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

### Space ISO Illuminance Diagram

Lum. Name: HV5885T-5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: HAVIT LIGHTING	Test Machine: GON-2000	Test Date: 2021/05/15

Space ISO Illuminance Curve



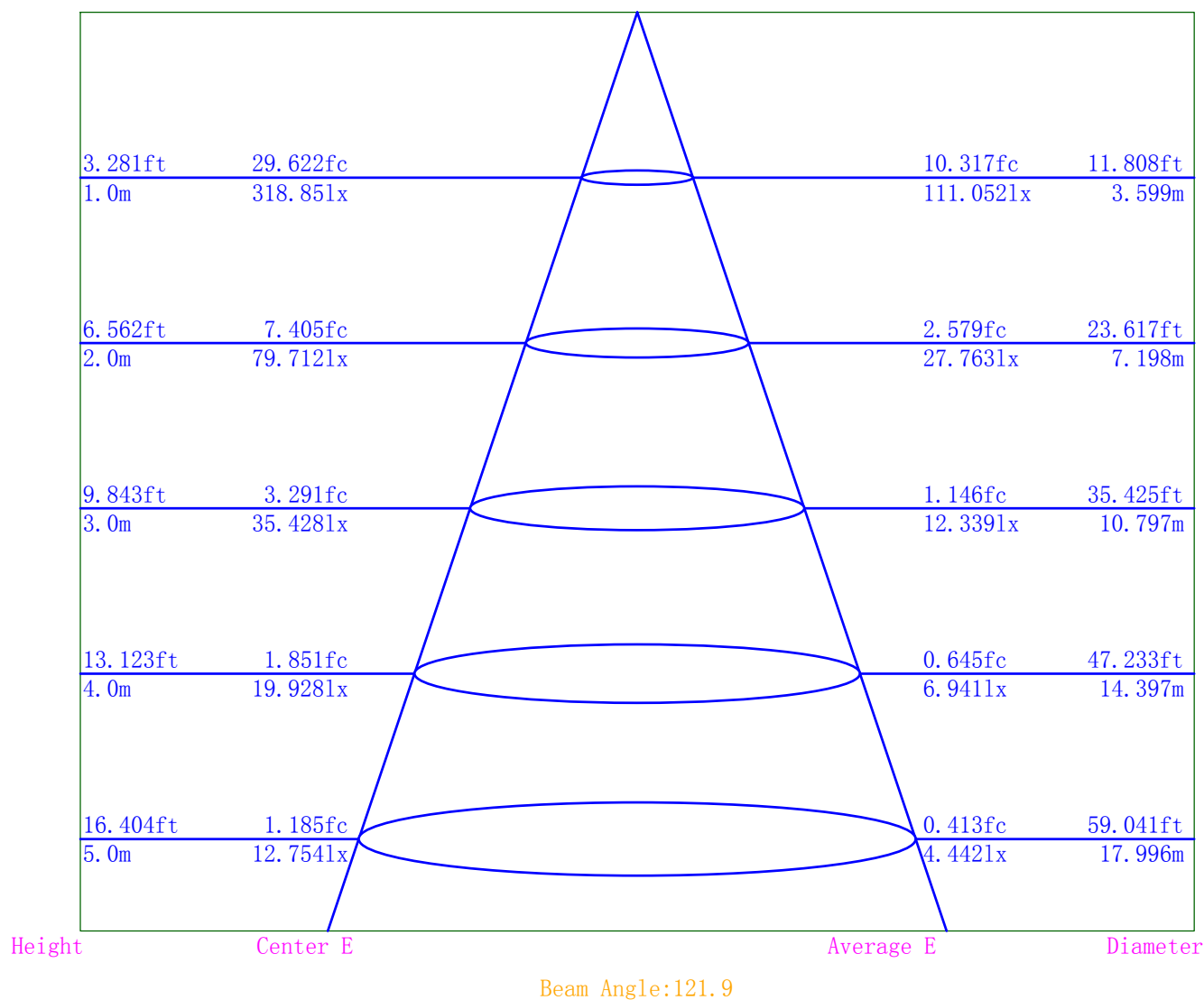
Space Plane Maximum Illuminance and @Angle:318.85lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:319.761cd,0deg



## Illuminance-Distance Diagram

Lum. Name: HV5885T-5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: HAVIT LIGHTING	Test Machine: GON-2000	Test Date: 2021/05/15

Illuminance-Distance Curve



## Indoor Luminance Limiting Curves

Lum. Name: HV5885T-5000K	Lum. Catalog: LED	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: HAVIT LIGHTING	Test Machine: GON-2000	Test Date: 2021/05/15

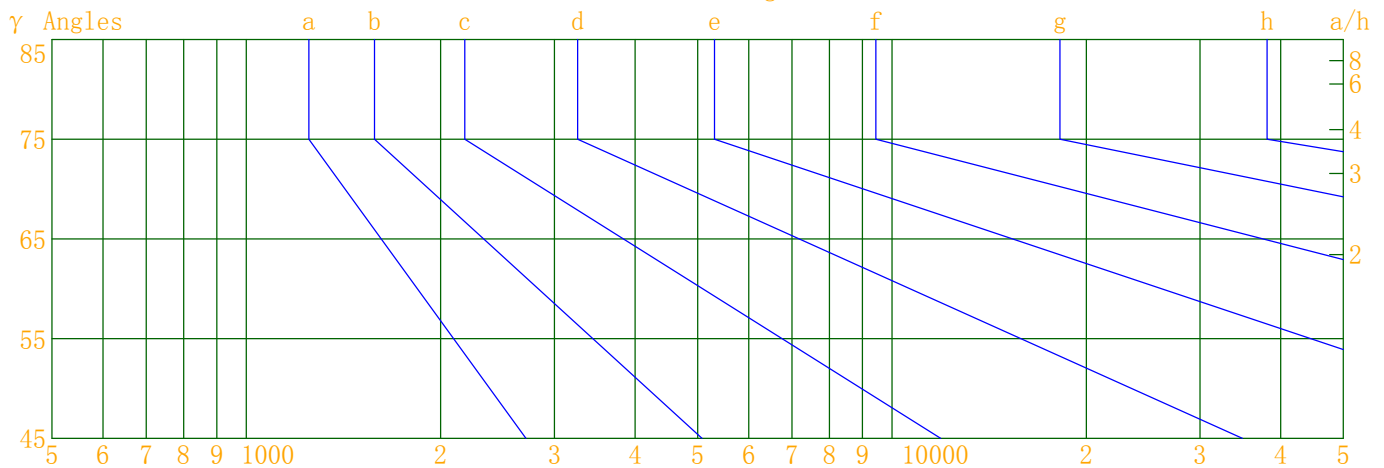
Glare Grade Table

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	164344	164299	163926	163550	163105	163439	167337	185017	269877
C90	160066	159680	159168	158304	157498	157380	160867	178902	263852

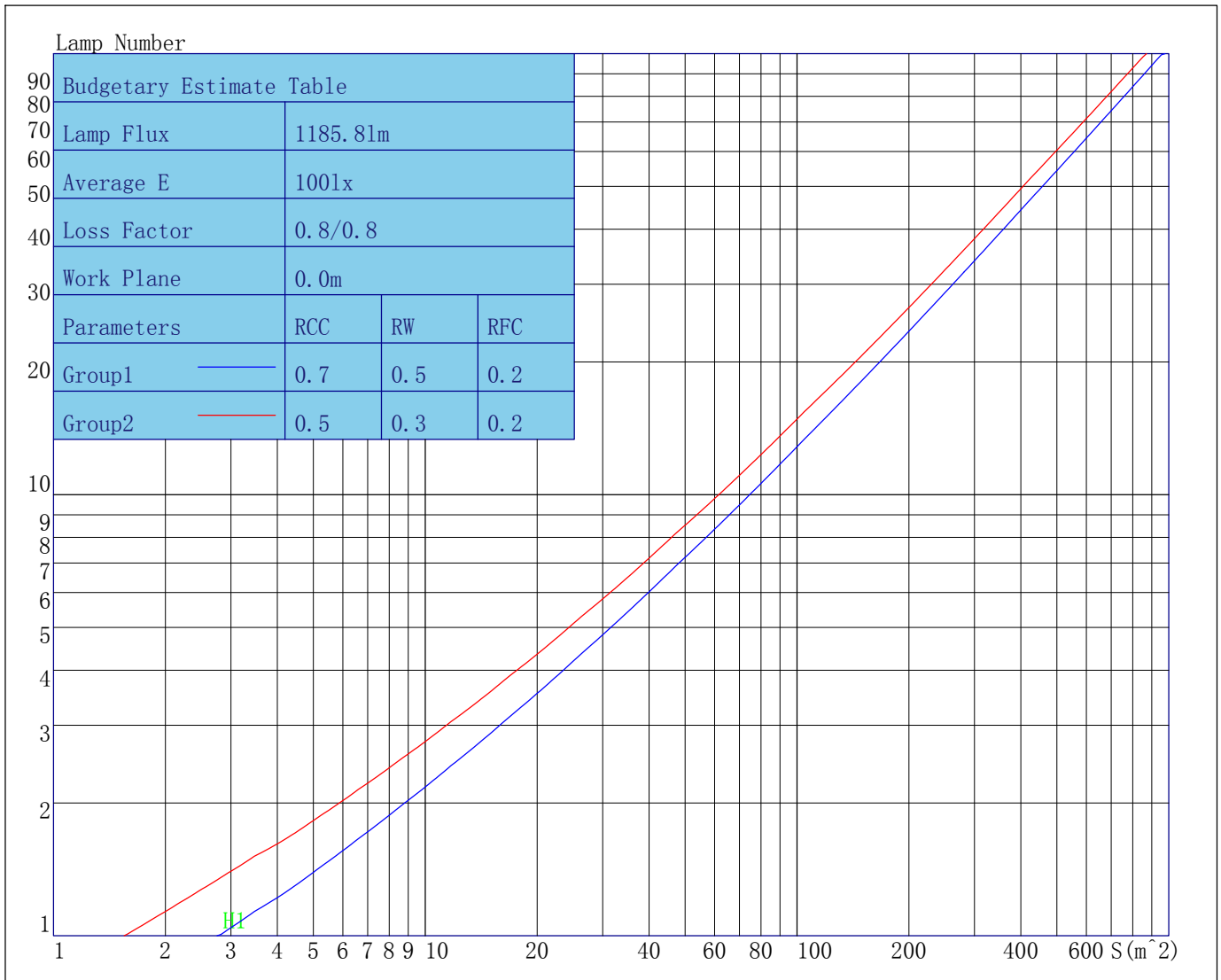
Luminance Limiting Curve



Luminous Size: Length(m)=0.000 Width(m)=-0.050 Height(m)=0.000 Area(m^2)=0.001963  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

### Indoor Budgetary Estimate Table

Lum. Name: HV5885T-5000K	Lum. Catalog: LED	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: HAVIT LIGHTING	Test Machine: GON-2000	Test Date: 2021/05/15



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: HV5885T-5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: HAVIT LIGHTING	Test Machine: GON-2000	Test Date: 2021/05/15

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	94	90	101	96	91	87	89	86	83	83	81	78	78	76	74	71
2	94	86	78	72	91	83	76	70	77	72	67	72	68	64	67	64	60	58
3	86	75	66	59	82	72	64	58	67	61	55	63	58	53	59	55	51	48
4	78	66	57	50	75	64	55	49	60	52	47	56	50	45	52	47	43	40
5	72	59	49	42	69	57	48	42	53	46	40	50	44	39	47	42	37	35
6	66	52	43	37	63	51	42	36	48	40	35	45	39	34	42	37	32	30
7	61	47	39	32	59	46	38	32	43	36	31	41	35	30	39	33	29	26
8	57	43	35	29	55	42	34	28	40	32	27	38	31	26	35	30	26	24
9	53	39	31	26	51	38	31	25	36	29	24	35	28	24	33	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

## Unified Glare Rating Table

Lum. Name: HV5885T-5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: HAVIT LIGHTING	Test Machine: GON-2000	Test Date: 2021/05/15

## 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	29.2	30.6	29.7	31.2	31.8	29.1	30.5	29.6	31.0	31.6
	31.1	32.4	31.6	32.9	33.6	30.9	32.2	31.5	32.8	33.4
	31.9	33.2	32.5	33.8	34.4	31.8	33.0	32.3	33.6	34.2
	32.8	33.9	33.3	34.5	35.2	32.6	33.7	33.2	34.3	35.0
	33.2	34.3	33.8	34.9	35.5	33.0	34.1	33.6	34.7	35.3
	33.6	34.7	34.2	35.3	36.0	33.4	34.5	34.0	35.1	35.8
X=4H    Y=2H	30.0	31.3	30.6	31.8	32.5	29.9	31.1	30.5	31.7	32.4
	32.1	33.2	32.7	33.8	34.4	32.0	33.0	32.5	33.6	34.3
	33.1	34.1	33.7	34.7	35.4	32.9	33.9	33.5	34.5	35.2
	34.1	34.9	34.7	35.6	36.3	33.9	34.8	34.5	35.4	36.1
	34.6	35.4	35.2	36.0	36.7	34.4	35.2	35.0	35.8	36.6
	35.1	35.9	35.8	36.5	37.2	35.0	35.7	35.6	36.3	37.1
X=8H    Y=4H	33.6	34.4	34.2	35.0	35.7	33.4	34.2	34.0	34.8	35.6
	34.8	35.4	35.4	36.1	36.9	34.6	35.3	35.3	35.9	36.8
	35.4	36.0	36.1	36.7	37.4	35.2	35.8	35.9	36.5	37.3
	36.1	36.7	36.8	37.3	38.1	36.0	36.5	36.6	37.2	38.0
X=12H    Y=4H	33.6	34.4	34.3	35.0	35.8	33.5	34.2	34.1	34.9	35.6
	34.9	35.5	35.6	36.2	37.0	34.8	35.4	35.4	36.0	36.8
	35.7	36.2	36.3	36.9	37.7	35.5	36.0	36.2	36.7	37.5
Variations with the objerver position at spacings										
S=1.0H	0.2/-0.2					0.2/-0.2				
S=1.5H	0.4/-0.4					0.4/-0.4				
S=2.0H	0.4/-0.5					0.5/-0.5				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	4.0					4.0				

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	318.85	318.85	318.85	318.85
γ 5.0	319.76	313.03	320.26	313.87
γ 10.0	316.35	309.46	317.46	311.40
γ 15.0	310.62	303.74	312.55	306.68
γ 20.0	302.47	295.81	305.21	299.67
γ 25.0	291.94	285.41	295.50	290.67
γ 30.0	279.36	272.80	283.67	279.05
γ 35.0	264.30	257.96	269.28	265.34
γ 40.0	247.18	241.27	252.83	249.51
γ 45.0	228.18	222.24	234.57	231.67
γ 50.0	207.36	201.53	214.47	211.96
γ 55.0	184.62	179.26	192.47	190.69
γ 60.0	160.57	155.41	168.97	167.91
γ 65.0	135.35	130.69	144.34	143.90
γ 70.0	109.76	105.69	119.02	119.25
γ 75.0	85.04	81.75	94.08	95.08
γ 80.0	63.08	61.00	71.33	72.60
γ 85.0	46.18	45.15	52.78	53.98
γ 90.0	35.10	34.41	39.82	40.46
γ 95.0	29.19	23.57	32.48	28.61
γ 100.0	26.68	22.31	29.20	23.71
γ 105.0	25.52	21.45	27.99	22.77
γ 110.0	24.31	20.27	26.53	22.16
γ 115.0	21.88	19.81	23.88	20.80
γ 120.0	19.70	19.36	21.26	20.16
γ 125.0	19.42	20.56	20.89	19.55
γ 130.0	18.81	21.54	20.00	18.94
γ 135.0	18.23	20.75	19.41	18.41
γ 140.0	18.11	20.00	18.99	19.43
γ 145.0	17.85	19.15	18.60	19.83
γ 150.0	16.36	17.98	17.24	18.81
γ 155.0	15.51	16.87	16.01	17.58
γ 160.0	15.02	15.88	15.45	16.32
γ 165.0	14.14	15.25	15.00	15.25
γ 170.0	13.41	14.76	14.17	14.67
γ 175.0	14.92	15.83	14.73	15.36
γ 180.0	15.73	15.73	15.73	15.73