

# IES Indoor Report

## Photometric Filename:148-128\_130\_131.IES

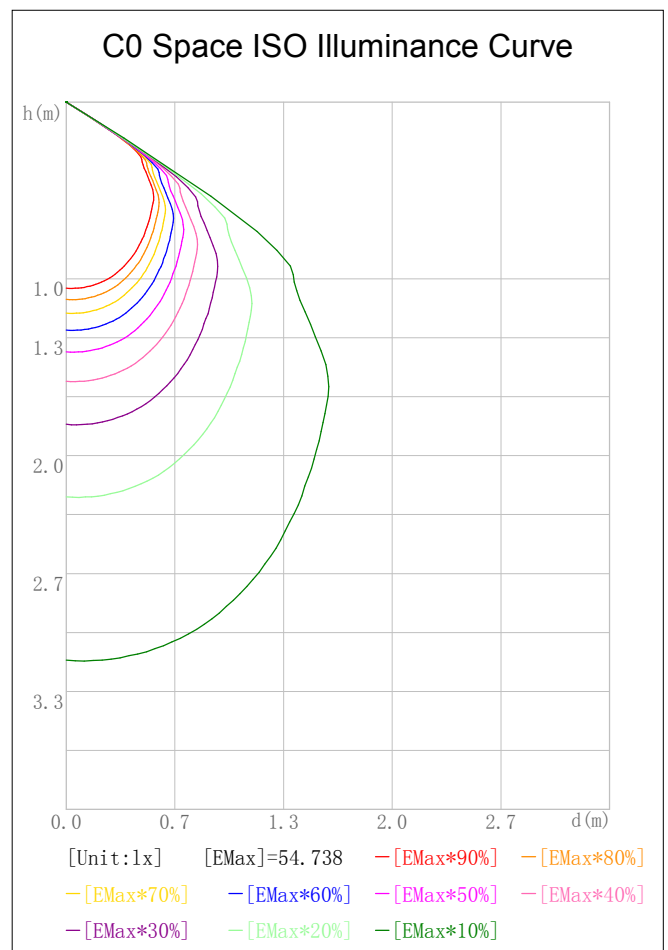
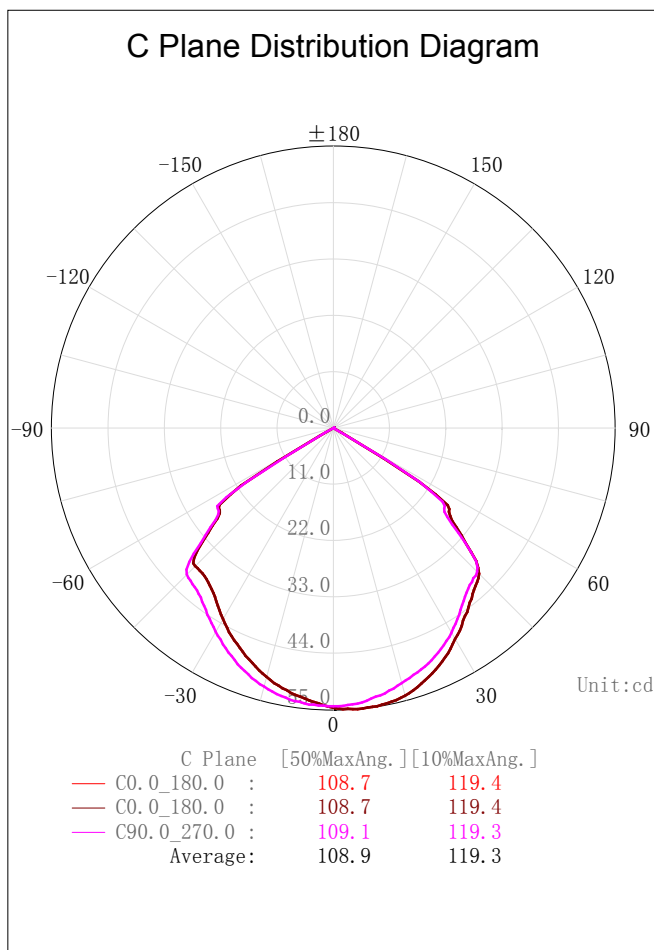
### Indoor Luminaire Photometric Data

#### Description Information

Luminaire Name: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Date: 2022/07/01
Manufacture: 5	Shld. Ang(°):	Test Machine:GON-2000
Test Lab: Volnic IES	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H): 28mm*-28mm*0mm	Lum. Area (m2): 0.001	Lum. W (kg): 0.500
Test System: C, $\gamma$	Test Step: C=30.0 $\gamma$ =1.0	Temp. (°C): 25
		Humidity (%): 68

#### Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 120.198	Luminaire Flux(lm): 120.198	Field Angle(10%Imax): 119.4(°)	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 120.198lm 100.00%	
Rated Voltage(V): 220	Luminaire EER(lm/W): 43.756	Up Lumens&Percent: -0.000lm 0.00%	
Tested Power(W): 2.747	Max. Candela(cd): 54.986	S/MH: C0_a180=1.237 C90_270=1.254	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 $\gamma$ =6.0	CIE Type: Semi-Direct	
Tested Electrics(V, A, pf): 3.9, 0.701	Beam Angle(50%Imax): 108.7(°)	ErP $\Phi$ use(120°): 119.663lm	
Lamp Size(W*L*H): 28mm*-28mm*0mm	Left=-53.5°, Right=55.2°	IRF (%): 105.902	



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## Average brightness table(cd/m2)

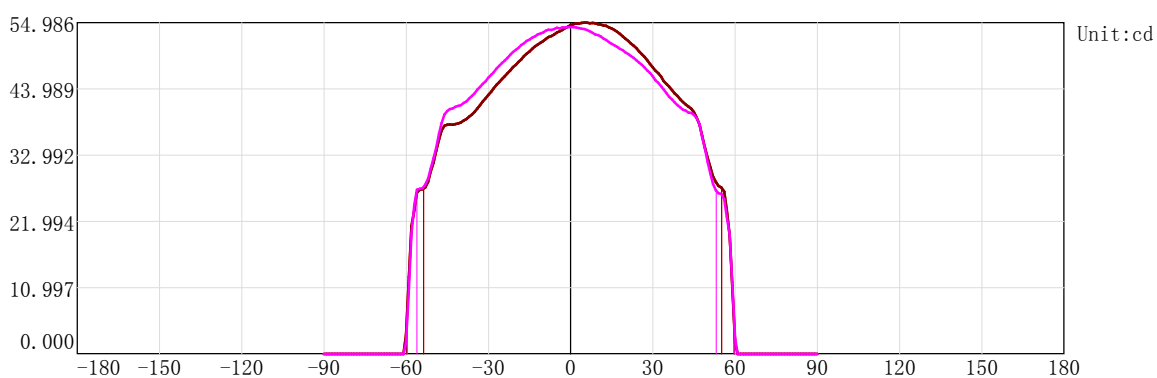
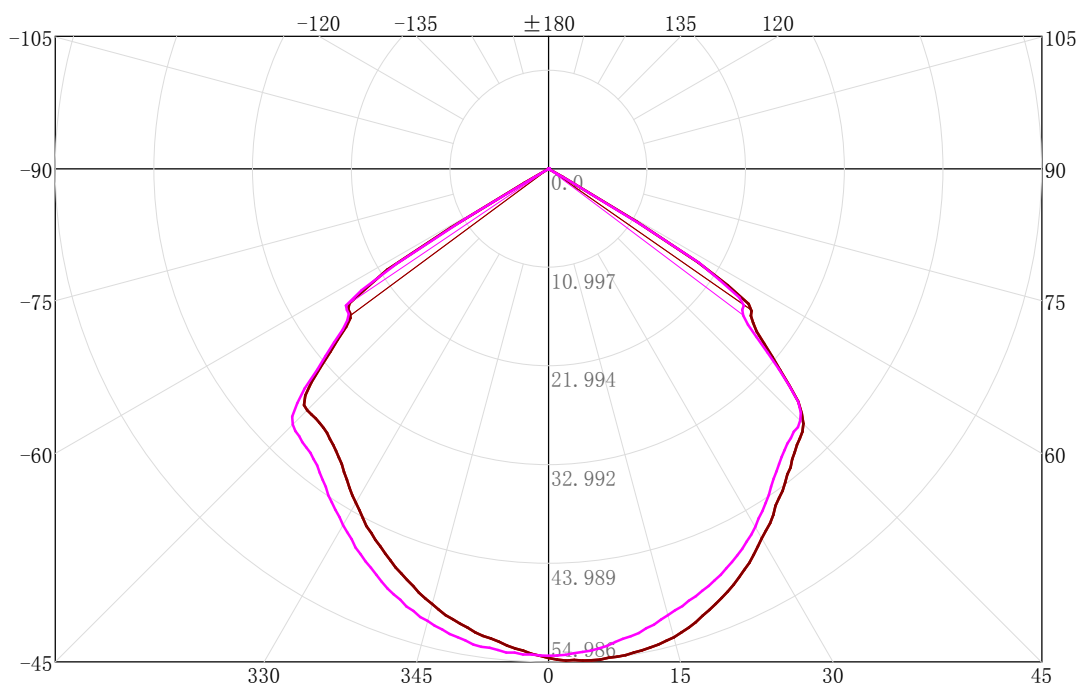
Angle value	Average	Average	Average
Y(° )	L0	L45	L90
45	92223	93140	91132
55	78184	77450	75214
65	0	0	0
75	0	0	0
85	0	0	0

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### 2D Plane Light Intensity Distribution Curve

Lum. Name: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Lab: Volnic IES
Manufacture: 5	Test Machine:GON-2000	Test Date: 2022/07/01

**C Plane Distribution Diagram**

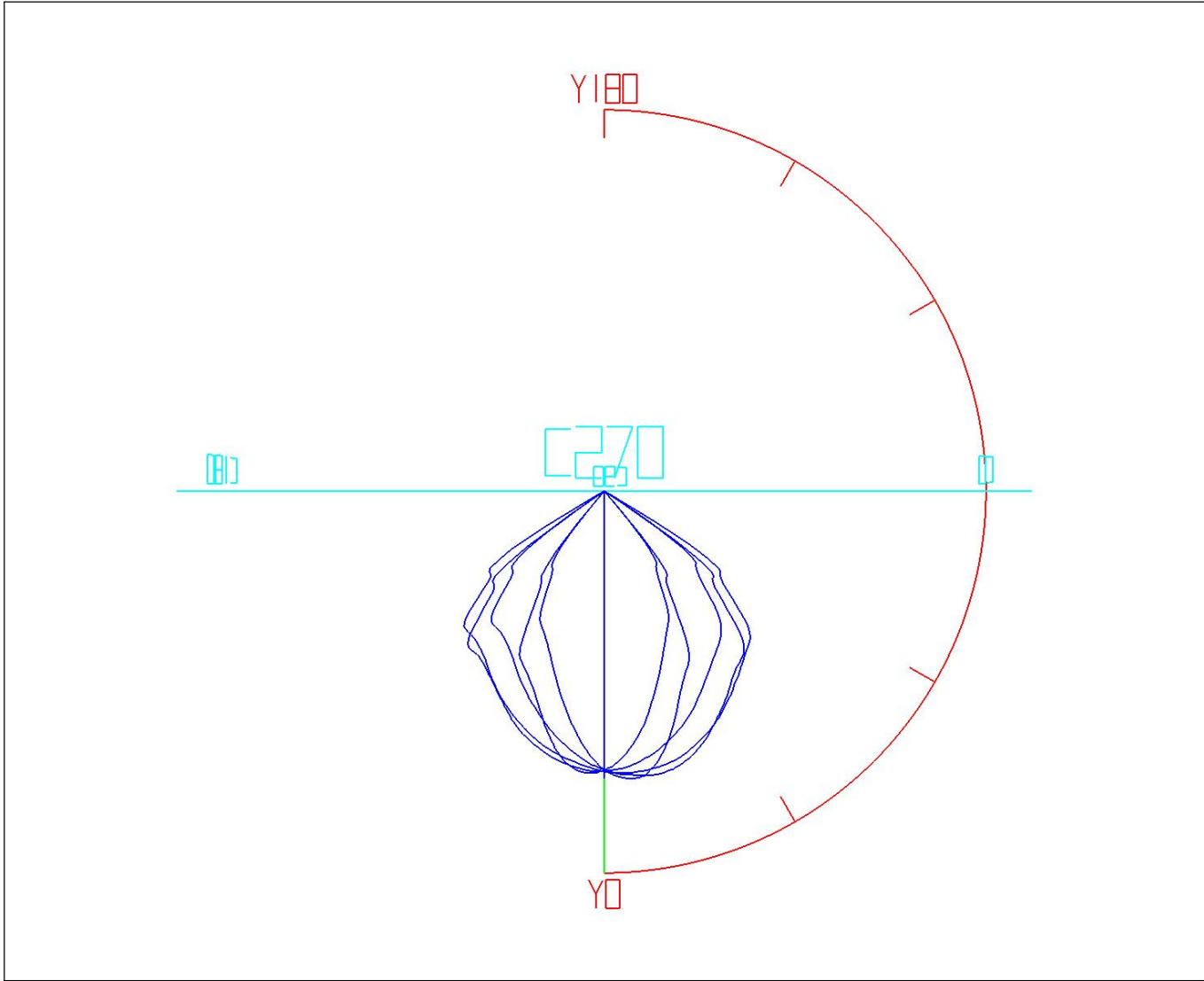


	C Plane	[50%MaxAng. ]	[10%MaxAng. ]
— (Red)	C0.0_180.0 :	108.7	119.4
— (Brown)	C0.0_180.0 :	108.7	119.4
— (Magenta)	C90.0_270.0 :	109.1	119.3
	Average:	108.9	119.3

**3D Light Intensity Distribution Modal**

Lum. Name: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Lab: Volnic IES
Manufacture: 5	Test Machine:GON-2000	Test Date: 2022/07/01

3D Light Intensity Distribution Modal



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

# IES Indoor Report

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## 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	0.05	0.05	0.04	0.04	47.0-48.0	3.00	92.91	2.49	77.30
1.0-2.0	0.16	0.21	0.13	0.17	48.0-49.0	2.89	95.80	2.40	79.70
2.0-3.0	0.26	0.47	0.22	0.39	49.0-50.0	2.76	98.56	2.30	82.00
3.0-4.0	0.36	0.83	0.30	0.69	50.0-51.0	2.65	101.21	2.21	84.20
4.0-5.0	0.47	1.29	0.39	1.08	51.0-52.0	2.55	103.76	2.12	86.33
5.0-6.0	0.57	1.86	0.47	1.55	52.0-53.0	2.48	106.24	2.06	88.39
6.0-7.0	0.67	2.53	0.56	2.10	53.0-54.0	2.45	108.68	2.03	90.42
7.0-8.0	0.77	3.30	0.64	2.74	54.0-55.0	2.44	111.13	2.03	92.45
8.0-9.0	0.87	4.16	0.72	3.46	55.0-56.0	2.43	113.56	2.02	94.48
9.0-10.0	0.96	5.13	0.80	4.27	56.0-57.0	2.31	115.87	1.92	96.40
10.0-11.0	1.06	6.19	0.88	5.15	57.0-58.0	2.03	117.90	1.69	98.09
11.0-12.0	1.16	7.34	0.96	6.11	58.0-59.0	1.47	119.37	1.23	99.31
12.0-13.0	1.25	8.59	1.04	7.15	59.0-60.0	0.68	120.06	0.57	99.88
13.0-14.0	1.34	9.93	1.12	8.26	60.0-61.0	0.14	120.20	0.11	100.00
14.0-15.0	1.43	11.36	1.19	9.45	61.0-62.0	0.00	120.20	0.00	100.00
15.0-16.0	1.52	12.88	1.26	10.72	62.0-63.0	0.00	120.20	0.00	100.00
16.0-17.0	1.60	14.48	1.33	12.05	63.0-64.0	0.00	120.20	0.00	100.00
17.0-18.0	1.68	16.17	1.40	13.45	64.0-65.0	0.00	120.20	0.00	100.00
18.0-19.0	1.76	17.93	1.47	14.92	65.0-66.0	0.00	120.20	0.00	100.00
19.0-20.0	1.84	19.78	1.53	16.45	66.0-67.0	0.00	120.20	0.00	100.00
20.0-21.0	1.92	21.69	1.60	18.05	67.0-68.0	0.00	120.20	0.00	100.00
21.0-22.0	1.99	23.68	1.66	19.70	68.0-69.0	0.00	120.20	0.00	100.00
22.0-23.0	2.06	25.74	1.71	21.42	69.0-70.0	0.00	120.20	0.00	100.00
23.0-24.0	2.13	27.87	1.77	23.19	70.0-71.0	0.00	120.20	0.00	100.00
24.0-25.0	2.19	30.06	1.82	25.01	71.0-72.0	0.00	120.20	0.00	100.00
25.0-26.0	2.25	32.31	1.87	26.88	72.0-73.0	0.00	120.20	0.00	100.00
26.0-27.0	2.31	34.62	1.92	28.80	73.0-74.0	0.00	120.20	0.00	100.00
27.0-28.0	2.36	36.99	1.97	30.77	74.0-75.0	0.00	120.20	0.00	100.00
28.0-29.0	2.42	39.40	2.01	32.78	75.0-76.0	0.00	120.20	0.00	100.00
29.0-30.0	2.46	41.86	2.05	34.83	76.0-77.0	0.00	120.20	0.00	100.00
30.0-31.0	2.51	44.38	2.09	36.92	77.0-78.0	0.00	120.20	0.00	100.00
31.0-32.0	2.56	46.93	2.13	39.04	78.0-79.0	0.00	120.20	0.00	100.00
32.0-33.0	2.60	49.53	2.16	41.21	79.0-80.0	0.00	120.20	0.00	100.00
33.0-34.0	2.64	52.17	2.20	43.40	80.0-81.0	0.00	120.20	0.00	100.00
34.0-35.0	2.68	54.84	2.23	45.63	81.0-82.0	0.00	120.20	0.00	100.00
35.0-36.0	2.72	57.56	2.26	47.89	82.0-83.0	0.00	120.20	0.00	100.00
36.0-37.0	2.75	60.31	2.29	50.18	83.0-84.0	0.00	120.20	0.00	100.00
37.0-38.0	2.79	63.10	2.32	52.50	84.0-85.0	0.00	120.20	0.00	100.00
38.0-39.0	2.83	65.93	2.35	54.85	85.0-86.0	0.00	120.20	0.00	100.00
39.0-40.0	2.87	68.80	2.39	57.24	86.0-87.0	0.00	120.20	0.00	100.00
40.0-41.0	2.91	71.71	2.42	59.66	87.0-88.0	0.00	120.20	0.00	100.00
41.0-42.0	2.95	74.65	2.45	62.11	88.0-89.0	0.00	120.20	0.00	100.00
42.0-43.0	2.99	77.65	2.49	64.60	89.0-90.0	0.00	120.20	0.00	100.00
43.0-44.0	3.04	80.68	2.53	67.12					
44.0-45.0	3.07	83.75	2.56	69.68					
45.0-46.0	3.09	86.84	2.57	72.25					
46.0-47.0	3.07	89.91	2.55	74.80					

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## Zonal Flux Tabulation - (Cont.)

Conical surface Flux(90deg):23.685

%lm = 19.70

%lamp = 19.70

Conical surface Flux(120deg):41.864

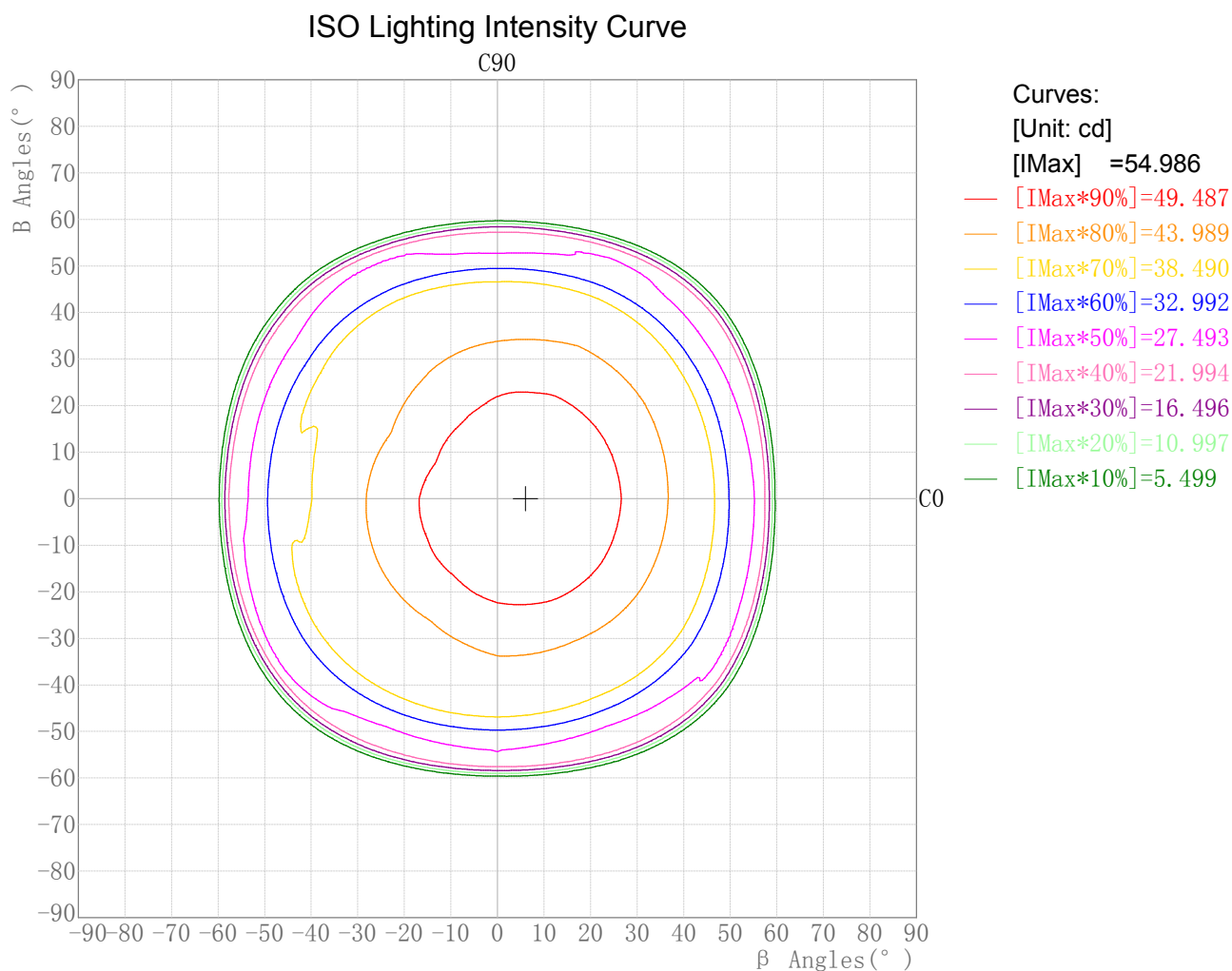
%lm = 34.83

%lamp = 34.83

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**Rectangle ISO Lighting Intensity Diagram**

Lum. Name: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Lab: Volnic IES
Manufacture: 5	Test Machine:GON-2000	Test Date: 2022/07/01



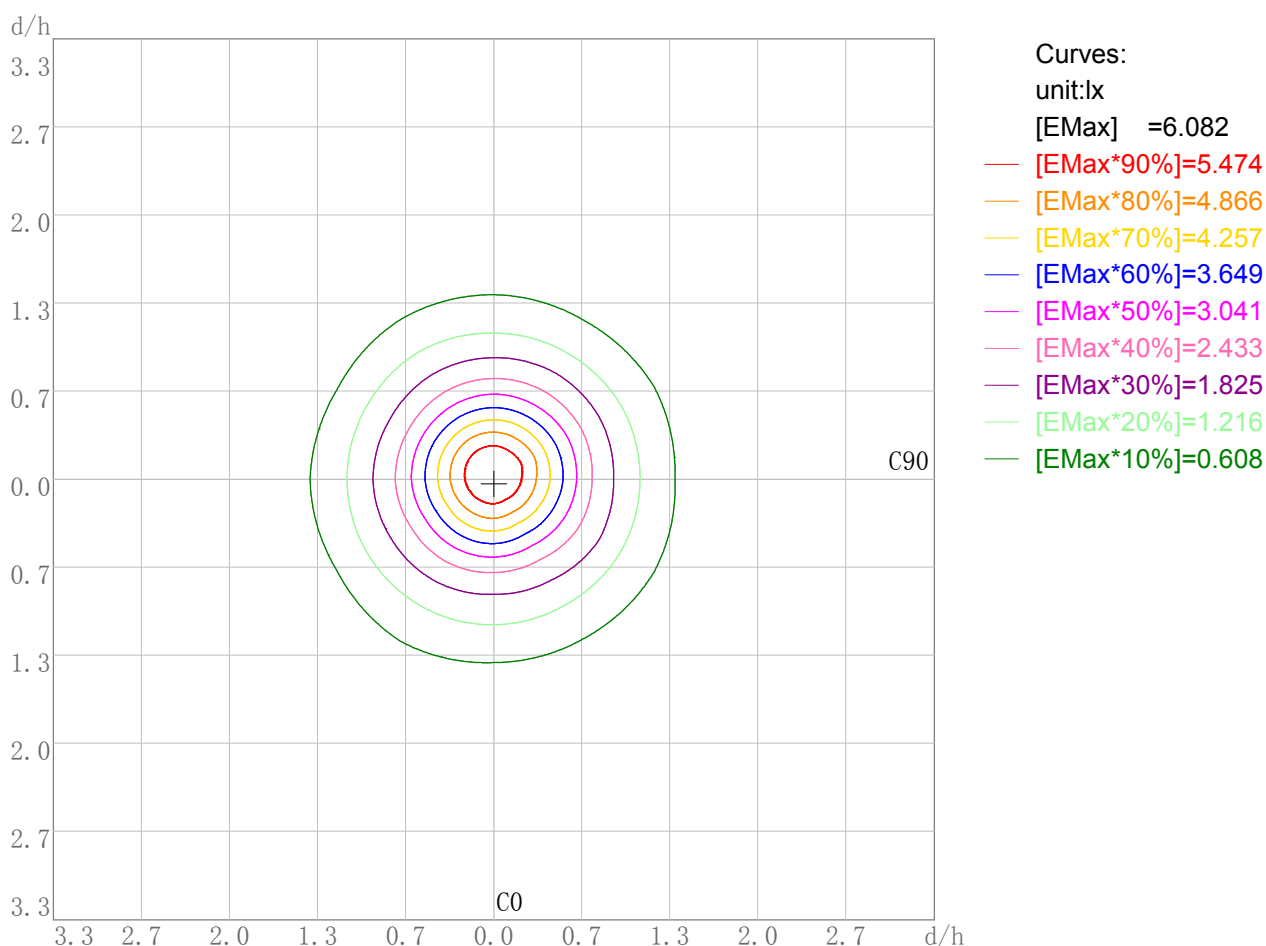
Maximum Light Intensity(cd): 54.99  
 Maximum Cand.@Angle: H=6.0°,V=0.0°

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**Plane ISO-Illuminance Diagram**

Lum. Name: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Lab: Volnic IES
Manufacture: 5	Test Machine: GON-2000	Test Date: 2022/07/01

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 6.08  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

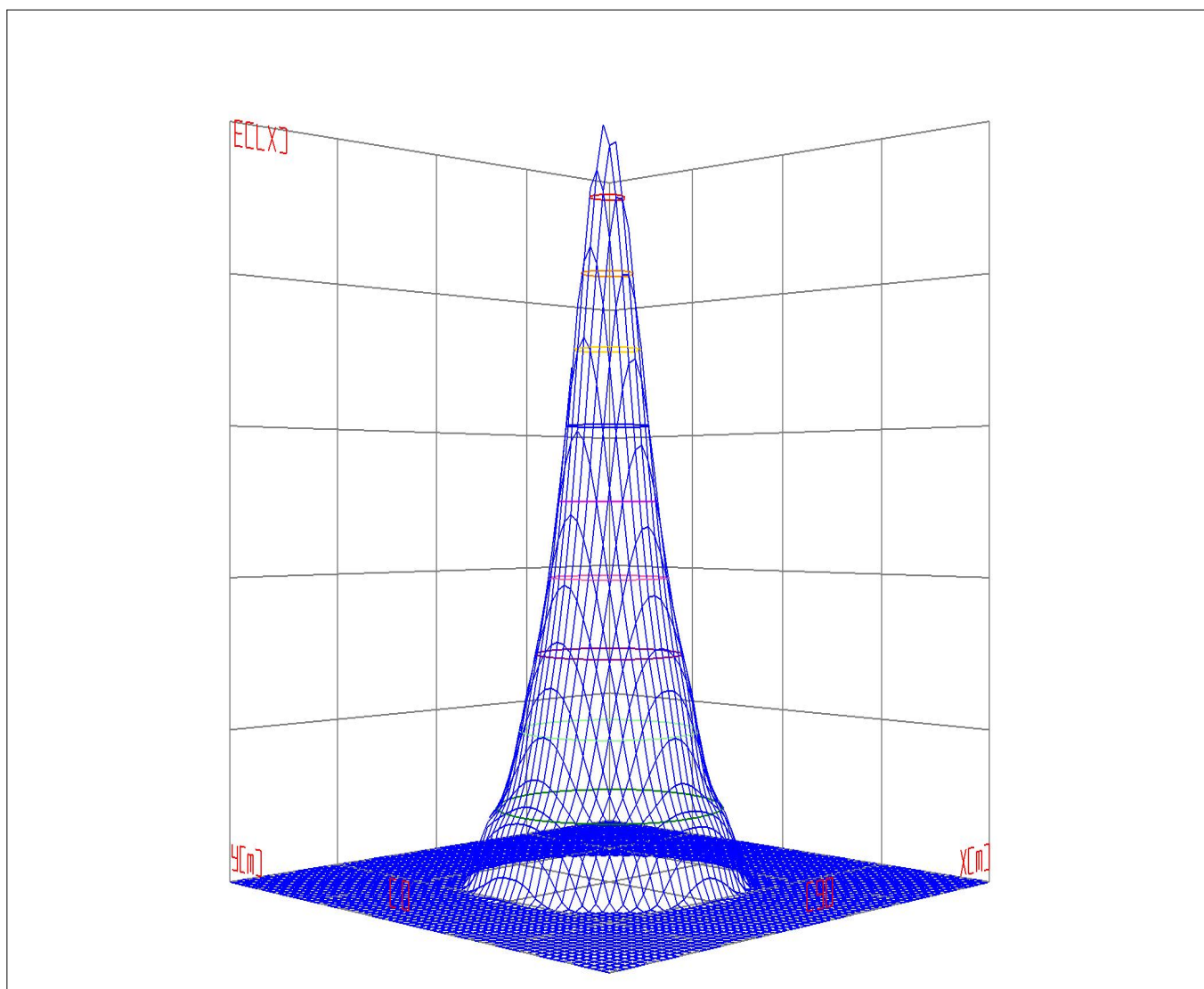
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### 3D Plane ISO Illuminance Diagram

Lum. Name: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Lab: Volnic IES
Manufacture: 5	Test Machine: GON-2000	Test Date: 2022/07/01

3D Plane Illuminance Modal



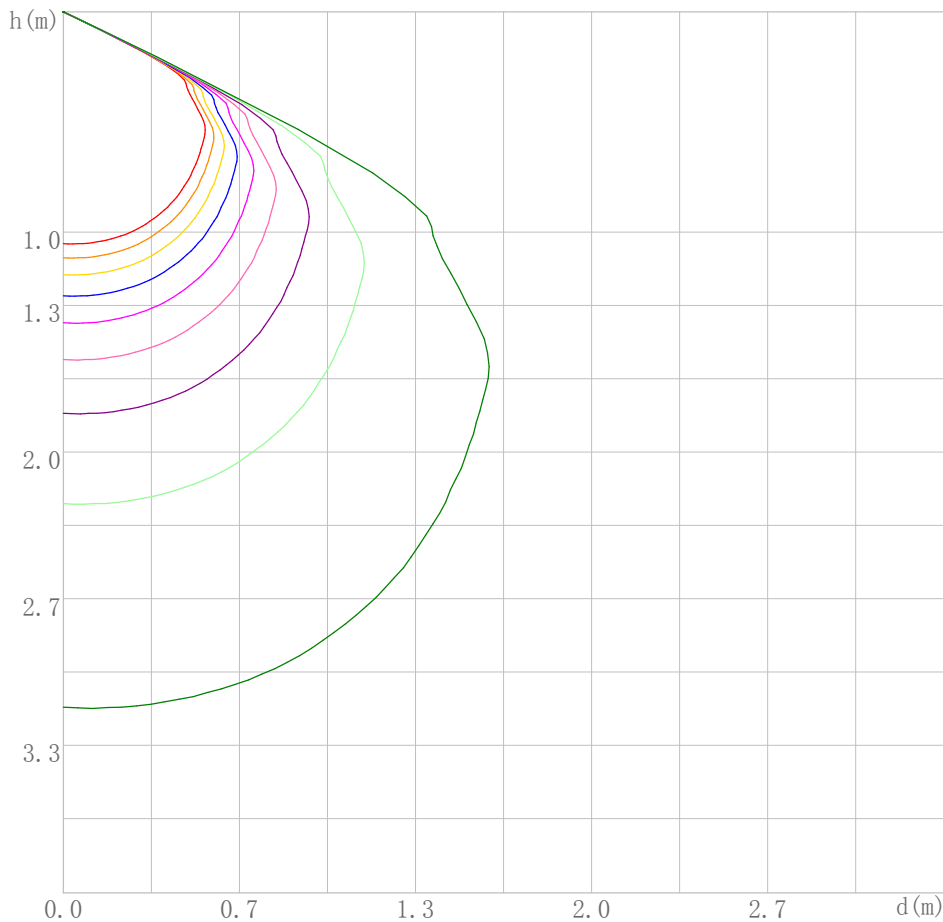
Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0    Height(m): 3.0    Distance(m): 10.0

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**Space ISO Illuminance Diagram**

Lum. Name: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Lab: Volnic IES
Manufacture: 5	Test Machine: GON-2000	Test Date: 2022/07/01

Space ISO Illuminance Curve



- Curves:  
 [Unit: lx]  
 [EMax] =54.738
- [EMax\*90%]=49.264
  - [EMax\*80%]=43.790
  - [EMax\*70%]=38.316
  - [EMax\*60%]=32.843
  - [EMax\*50%]=27.369
  - [EMax\*40%]=21.895
  - [EMax\*30%]=16.421
  - [EMax\*20%]=10.948
  - [EMax\*10%]=5.474

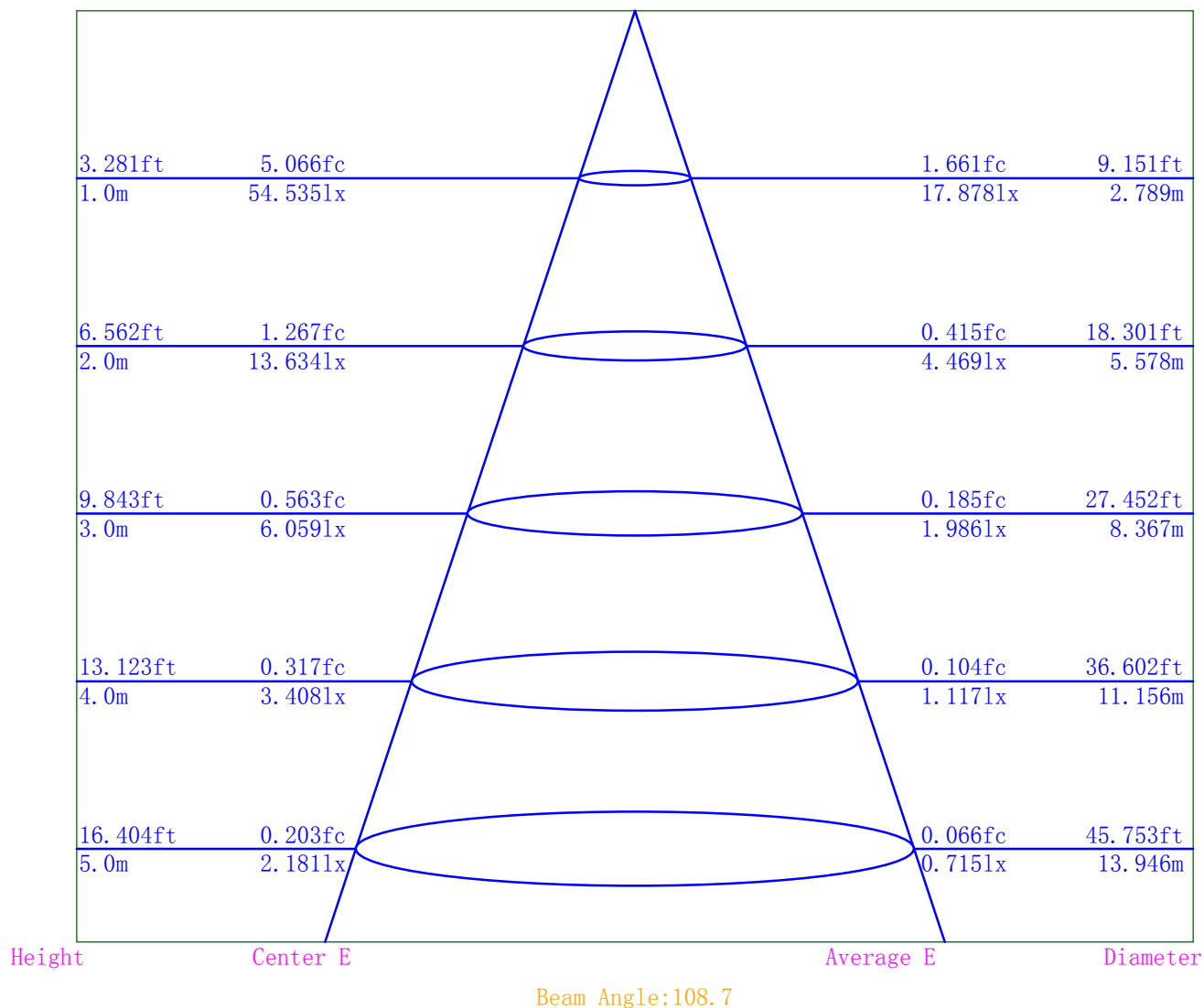
Space Plane Maximum Illuminance and @Angle:54.74lx,2.0deg  
 Plane Maximum Lighting Intensity and @Angle:54.986cd,0deg

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**Illuminance-Distance Diagram**

Lum. Name: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Lab: Volnic IES
Manufacture: 5	Test Machine:GON-2000	Test Date: 2022/07/01

Illuminance-Distance Curve



### Indoor Luminance Limiting Curves

Lum. Name: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Lab: Volnic IES
Manufacture: 5	Test Machine: GON-2000	Test Date: 2022/07/01

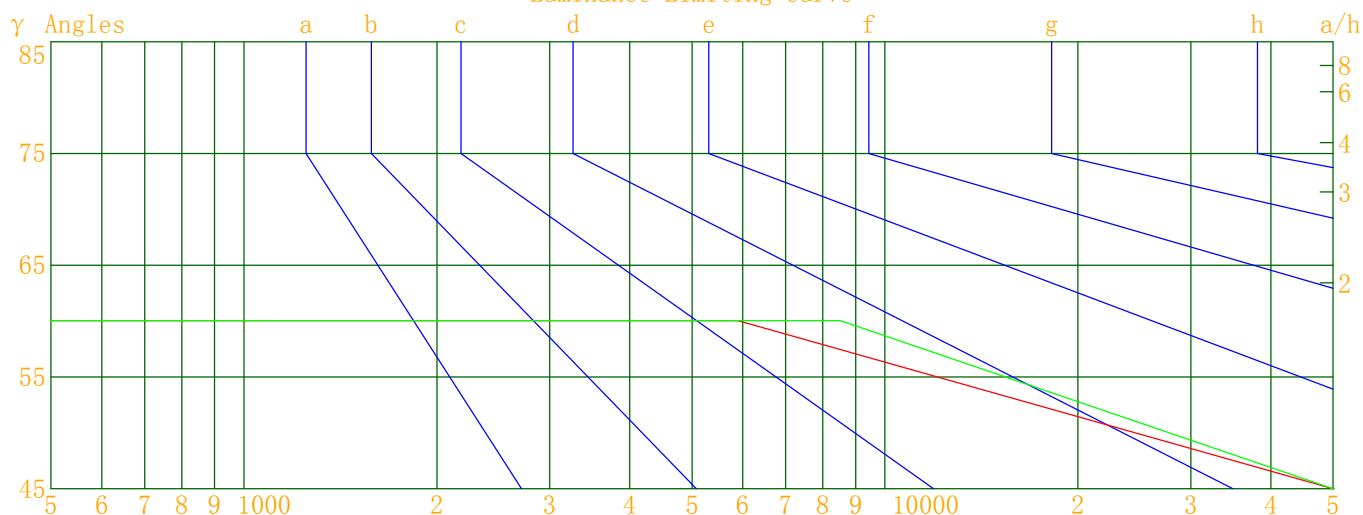
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
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	92223	82297	78184	5898	0	0	0	0	0
C90	91132	80551	75214	8523	0	0	0	0	0

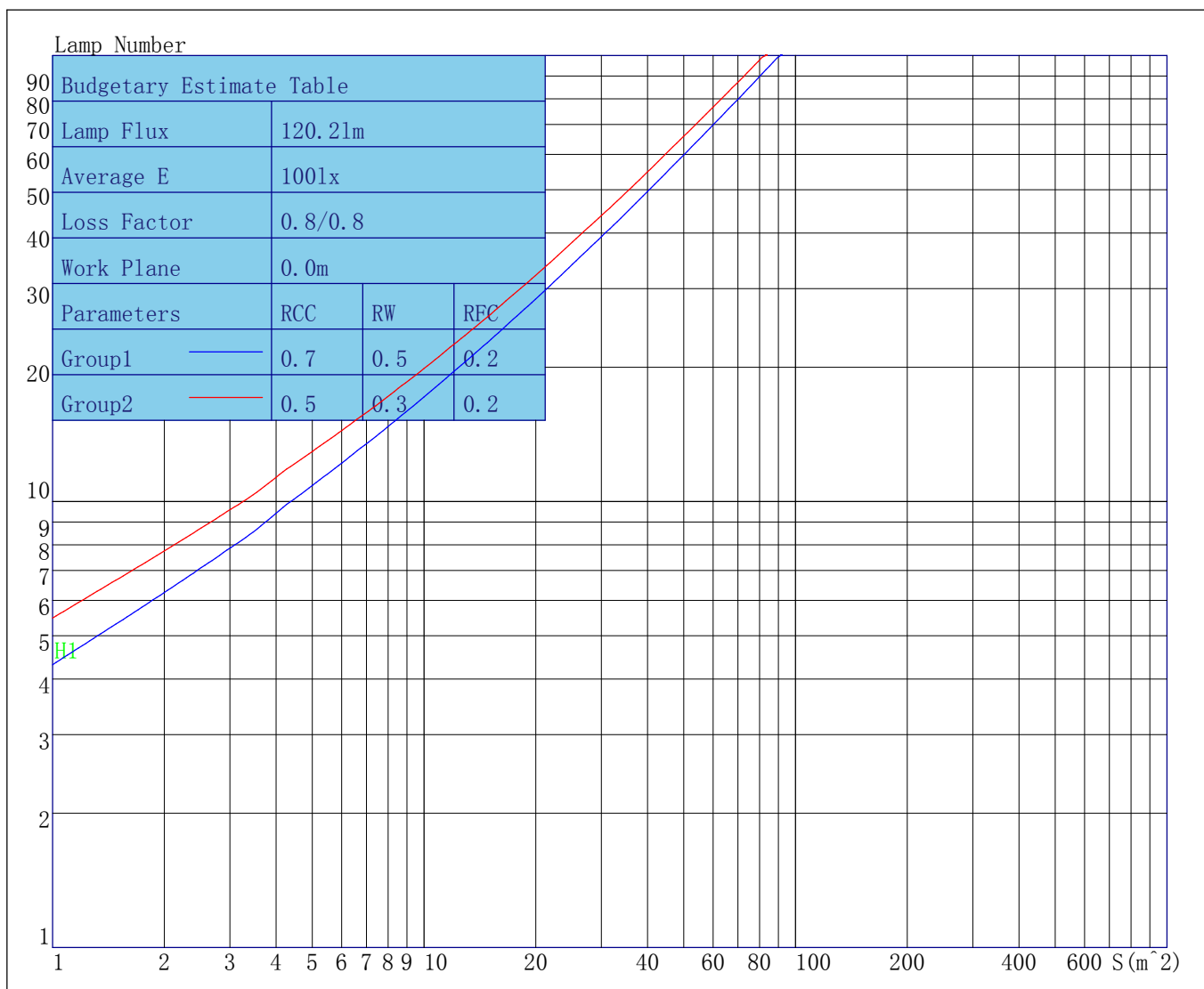
Luminance Limiting Curve



Luminous Size: Length(m)=-0.028 Width(m)=-0.028 Height(m)=0.000 Area(m^2)=0.000616  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

**Indoor Budgetary Estimate Table**

Lum. Name: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Lab: Volnic IES
Manufacture: 5	Test Machine: GON-2000	Test Date: 2022/07/01



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: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Lab: Volnic IES
Manufacture: 5	Test Machine:GON-2000	Test Date: 2022/07/01

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42
8	66	54	46	40	64	53	45	40	52	45	40	50	44	40	49	44	40	38
9	62	49	42	36	60	49	41	36	48	41	36	46	40	36	46	40	36	34
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31

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**Unified Glare Rating Table**

Lum. Name: 148-128_130_131	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Lab: Volnic IES
Manufacture: 5	Test Machine:GON-2000	Test Date: 2022/07/01

**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	27.1	28.6	27.5	28.9	29.2	26.9	28.3	27.3	28.7	29.0
	Y=3H	27.0	28.3	27.4	28.6	29.0	26.8	28.1	27.2	28.4	28.7
	Y=4H	27.0	28.1	27.4	28.5	28.9	26.7	27.9	27.1	28.2	28.6
	Y=6H	26.9	28.0	27.3	28.3	28.7	26.7	27.7	27.1	28.1	28.5
	Y=8H	26.9	27.9	27.3	28.3	28.7	26.6	27.6	27.0	28.0	28.4
	Y=12H	26.8	27.8	27.2	28.2	28.6	26.6	27.5	27.0	27.9	28.4
X=4H	Y=2H	27.2	28.4	27.6	28.7	29.1	26.9	28.1	27.3	28.5	28.8
	Y=3H	27.1	28.0	27.5	28.4	28.8	26.8	27.8	27.2	28.2	28.6
	Y=4H	27.0	27.8	27.4	28.2	28.7	26.8	27.6	27.2	28.0	28.4
	Y=6H	26.9	27.6	27.4	28.1	28.5	26.7	27.4	27.1	27.8	28.3
	Y=8H	26.9	27.5	27.3	28.0	28.5	26.6	27.3	27.1	27.7	28.2
	Y=12H	26.8	27.4	27.3	27.9	28.4	26.6	27.2	27.1	27.6	28.1
X=8H	Y=4H	26.9	27.5	27.3	28.0	28.5	26.6	27.3	27.1	27.7	28.2
	Y=6H	26.8	27.3	27.3	27.8	28.4	26.5	27.1	27.0	27.6	28.1
	Y=8H	26.7	27.2	27.2	27.7	28.2	26.4	26.9	27.0	27.5	28.0
	Y=12H	26.6	27.1	27.1	27.6	28.2	26.4	26.8	26.9	27.3	27.9
X=12H	Y=4H	26.8	27.4	27.3	27.9	28.4	26.6	27.2	27.1	27.6	28.1
	Y=6H	26.7	27.2	27.2	27.7	28.2	26.4	27.0	27.0	27.4	28.0
	Y=8H	26.6	27.1	27.1	27.6	28.2	26.4	26.8	26.9	27.3	27.9
Variations with the objerver position at spacings											
S=1.0H	0.0/0.0					0.0/0.0					
S=1.5H	0.0/0.0					0.0/0.0					
S=2.0H	0.0/0.0					0.0/0.0					
Reduced UGR Table:											
Nordic Standard Table:	BKO					BKO					
Correction Value	0.1					0.1					

Calculation is according to the CIE Pub.117, data has been corrected, refers to the lamp's lumen

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**IES Indoor Report**  
**Photometric Filename:148-128\_130\_131.IES**

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**Candela Tabulation**

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
γ 0.0	54.53	54.32	54.26	54.26	54.08	54.21	54.53	54.32	54.26	54.26	54.08	54.21
γ 1.0	54.71	54.47	54.31	54.23	54.12	54.02	54.29	54.32	54.16	54.24	54.23	54.35
γ 2.0	54.84	54.57	54.32	54.20	54.01	53.80	54.10	54.09	54.03	54.16	54.24	54.40
γ 3.0	54.81	54.62	54.55	54.06	53.74	53.78	53.77	53.99	53.98	54.21	54.19	54.52
γ 4.0	54.93	54.75	54.47	53.99	53.60	53.46	53.57	53.86	53.78	54.03	54.27	54.53
γ 5.0	54.98	54.76	54.45	53.91	53.46	53.15	53.34	53.53	53.56	54.12	54.23	54.53
γ 6.0	54.99	54.70	54.46	53.75	53.28	52.86	53.01	53.25	53.40	53.94	54.20	54.45
γ 7.0	54.90	54.61	54.31	53.55	52.97	52.54	52.73	52.99	53.36	53.78	54.14	54.49
γ 8.0	54.91	54.61	54.19	53.27	52.66	52.27	52.57	52.73	53.13	53.79	54.07	54.47
γ 9.0	54.89	54.44	54.21	53.03	52.44	51.92	52.29	52.35	52.86	53.67	54.10	54.52
γ 10.0	54.74	54.22	54.07	52.90	52.19	51.53	51.92	52.16	52.68	53.36	53.90	54.50
γ 11.0	54.69	54.22	53.83	52.71	51.80	51.17	51.66	51.78	52.39	53.19	53.82	54.51
γ 12.0	54.53	54.04	53.73	52.34	51.55	50.92	51.31	51.46	52.06	53.02	53.74	54.38
γ 13.0	54.43	53.90	53.57	52.14	51.12	50.47	51.05	51.15	51.74	52.71	53.58	54.28
γ 14.0	54.21	53.57	53.36	51.77	50.80	50.03	50.65	50.77	51.43	52.48	53.44	54.10
γ 15.0	54.05	53.33	53.17	51.48	50.48	49.64	50.20	50.40	51.11	52.15	53.24	53.82
γ 16.0	53.77	53.08	52.96	51.20	50.20	49.12	49.81	49.99	50.79	51.97	53.11	53.71
γ 17.0	53.46	52.83	52.68	50.97	49.73	48.63	49.40	49.58	50.38	51.54	52.74	53.32
γ 18.0	53.13	52.58	52.42	50.62	49.26	48.21	48.87	49.26	49.91	51.28	52.27	53.08
γ 19.0	52.70	52.23	52.22	50.40	48.91	47.68	48.47	48.81	49.46	50.79	51.94	52.68
γ 20.0	52.34	51.93	51.72	50.05	48.46	47.16	47.98	48.36	49.06	50.45	51.63	52.35
γ 21.0	51.95	51.64	51.38	49.80	48.06	46.75	47.59	48.04	48.65	50.11	51.25	51.93
γ 22.0	51.56	51.17	50.91	49.47	47.69	46.37	47.08	47.59	47.98	49.66	50.80	51.49
γ 23.0	51.15	50.77	50.44	49.15	47.38	45.85	46.60	47.10	47.52	49.15	50.24	50.99
γ 24.0	50.73	50.40	49.88	48.73	46.89	45.28	46.08	46.58	46.97	48.68	49.82	50.52
γ 25.0	50.23	49.96	49.57	48.34	46.41	44.72	45.64	46.18	46.48	48.27	49.35	50.04
γ 26.0	49.74	49.50	49.08	47.95	46.02	44.34	45.13	45.54	45.95	47.79	48.81	49.53
γ 27.0	49.31	48.87	48.64	47.53	45.45	43.80	44.69	45.03	45.51	47.37	48.31	48.87
γ 28.0	48.71	48.31	48.18	47.02	45.09	43.33	44.11	44.50	44.90	46.77	47.78	48.33
γ 29.0	48.12	47.86	47.70	46.62	44.68	42.76	43.51	43.93	44.27	46.33	47.13	47.84
γ 30.0	47.53	47.31	47.24	46.07	44.20	42.16	42.98	43.45	43.84	45.85	46.58	47.16
γ 31.0	47.03	46.78	46.79	45.44	43.84	41.64	42.46	43.02	43.37	45.27	46.05	46.69
γ 32.0	46.58	46.22	46.30	44.98	43.42	41.06	41.90	42.49	42.82	44.81	45.42	46.09
γ 33.0	46.00	45.76	45.75	44.44	43.02	40.60	41.29	42.06	42.42	44.32	44.85	45.59
γ 34.0	45.26	45.37	45.29	43.88	42.64	40.25	40.76	41.58	41.93	43.88	44.23	45.03
γ 35.0	44.77	44.84	44.82	43.26	42.42	39.85	40.16	41.17	41.53	43.27	43.61	44.58
γ 36.0	44.39	44.43	44.30	42.68	42.10	39.51	39.76	40.90	41.13	42.84	43.04	43.92
γ 37.0	43.79	43.99	43.80	42.22	41.72	39.23	39.37	40.47	40.94	42.42	42.48	43.40
γ 38.0	43.22	43.72	43.39	41.74	41.60	39.00	39.02	40.17	40.64	41.92	42.11	42.78
γ 39.0	42.84	43.28	42.99	41.31	41.41	38.87	38.74	39.82	40.43	41.64	41.61	42.39
γ 40.0	42.25	42.92	42.49	40.93	41.27	38.65	38.43	39.63	40.13	41.30	41.27	41.95
γ 41.0	41.82	42.61	42.23	40.56	41.13	38.64	38.25	39.37	39.95	41.15	40.88	41.60
γ 42.0	41.41	42.14	41.71	40.38	41.12	38.73	38.13	39.31	39.79	40.99	40.56	41.40
γ 43.0	41.07	41.75	41.51	40.05	41.06	38.83	38.05	39.31	39.71	40.76	40.33	41.12
γ 44.0	40.72	41.08	41.17	40.02	41.06	38.91	38.07	39.45	39.50	40.65	40.13	40.79
γ 45.0	40.15	40.30	40.80	39.68	40.65	38.78	38.04	39.40	39.44	40.34	39.74	40.58
γ 46.0	39.23	39.32	40.13	39.08	39.79	38.05	37.90	38.92	39.04	39.73	39.14	39.88

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