

IES Indoor Report

Photometric Filename:148-125.IES

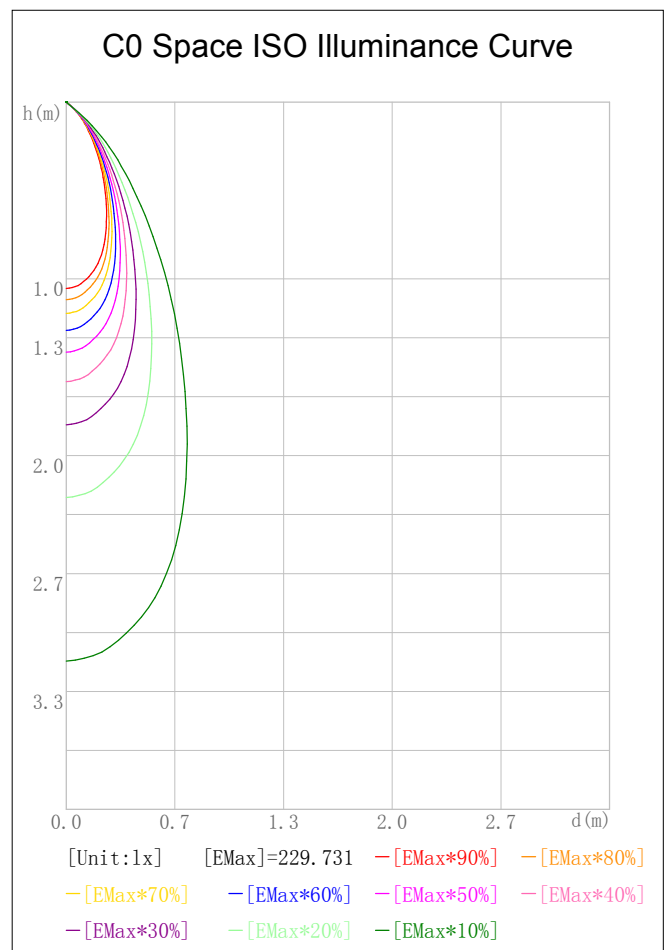
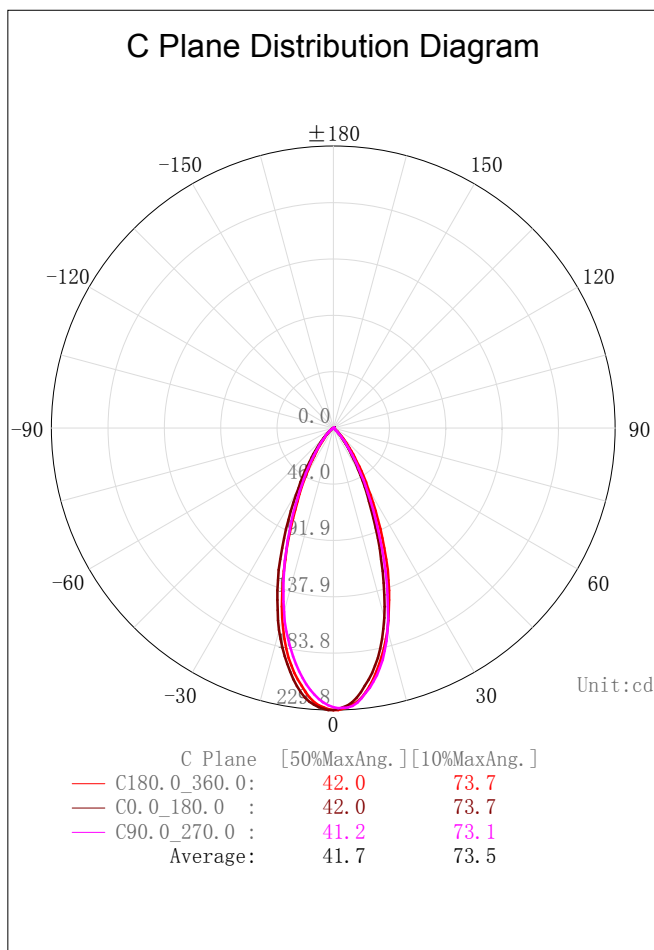
Indoor Luminaire Photometric Data

Description Information

Luminaire Name: 148-125	Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE	Lamp Catalog: LED MODULE	Test Date: 2022/07/02
Manufacture: 5	Shld. Ang(°):	Test Machine:GON-2000
Test Lab: Volnic IES	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):20mm*-20mm*0mm	Lum. Area(m2):0.000	Lum. W(kg): 0.500
Test System: C, γ	Test Step: C=30.0 γ =1.0	Temp.(°C): 25
		Humidity(%): 68

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 125.932	Luminaire Flux(lm): 125.932	Field Angle(10%Imax): 73.7(°)	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 125.932lm 100.00%	
Rated Voltage(V): 220	Luminaire EER(lm/W): 45.860	Up Lumens&Percent: -0.000lm 0.00%	
Tested Power(W): 2.746	Max. Candela(cd): 229.799	S/MH: C0_a180=0.675 C90_270=0.661	
Lamps' Inside: 1	Max Cand@Ang.(°): C=180.0 γ =1.0	CIE Type: Semi-Direct	
Tested Electrics(V, A, pf):3.9, 0.700	Beam Angle(50%Imax): 42.0(°)	ErP ϕ use(90°): 124.597lm	
Lamp Size(W*L*H):20mm*-20mm*0mm	Left=-19.9°, Right=22.1°	IRF(%): 391.486	



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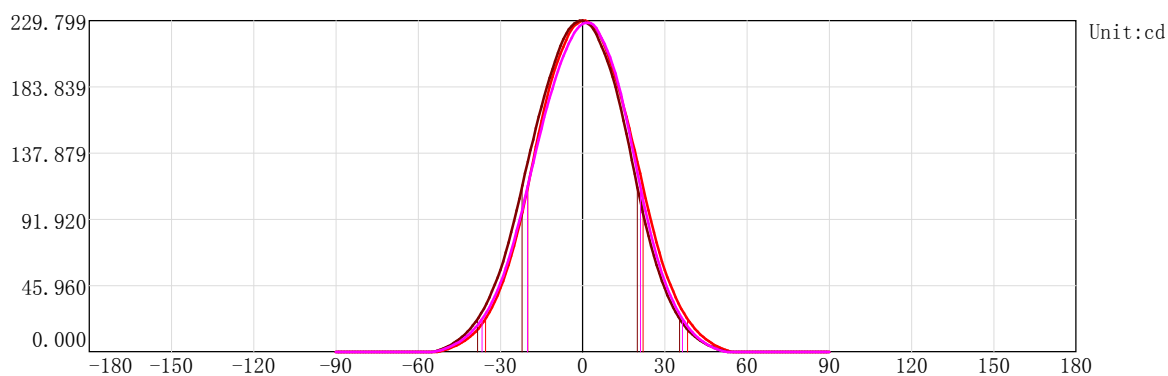
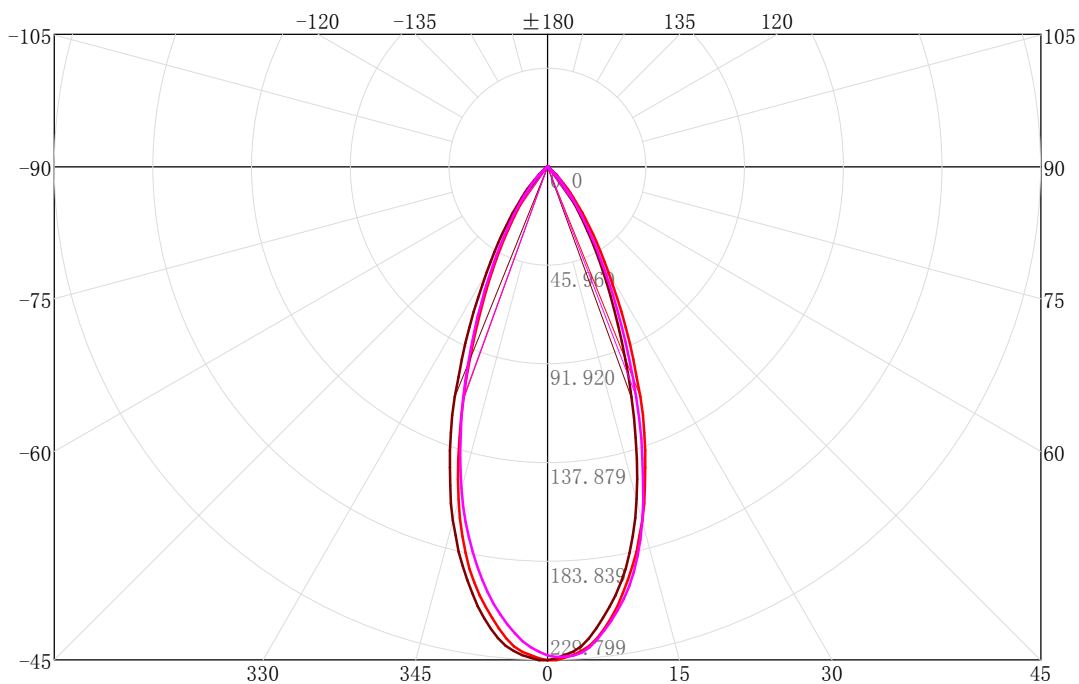
Average brightness table(cd/m2)

Angle value	Average	Average	Average
Y(°)	L0	L45	L90
45	24651	25180	26397
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

2D Plane Light Intensity Distribution Curve

Lum. Name: 148-125	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: 2022/07/02

C Plane Distribution Diagram

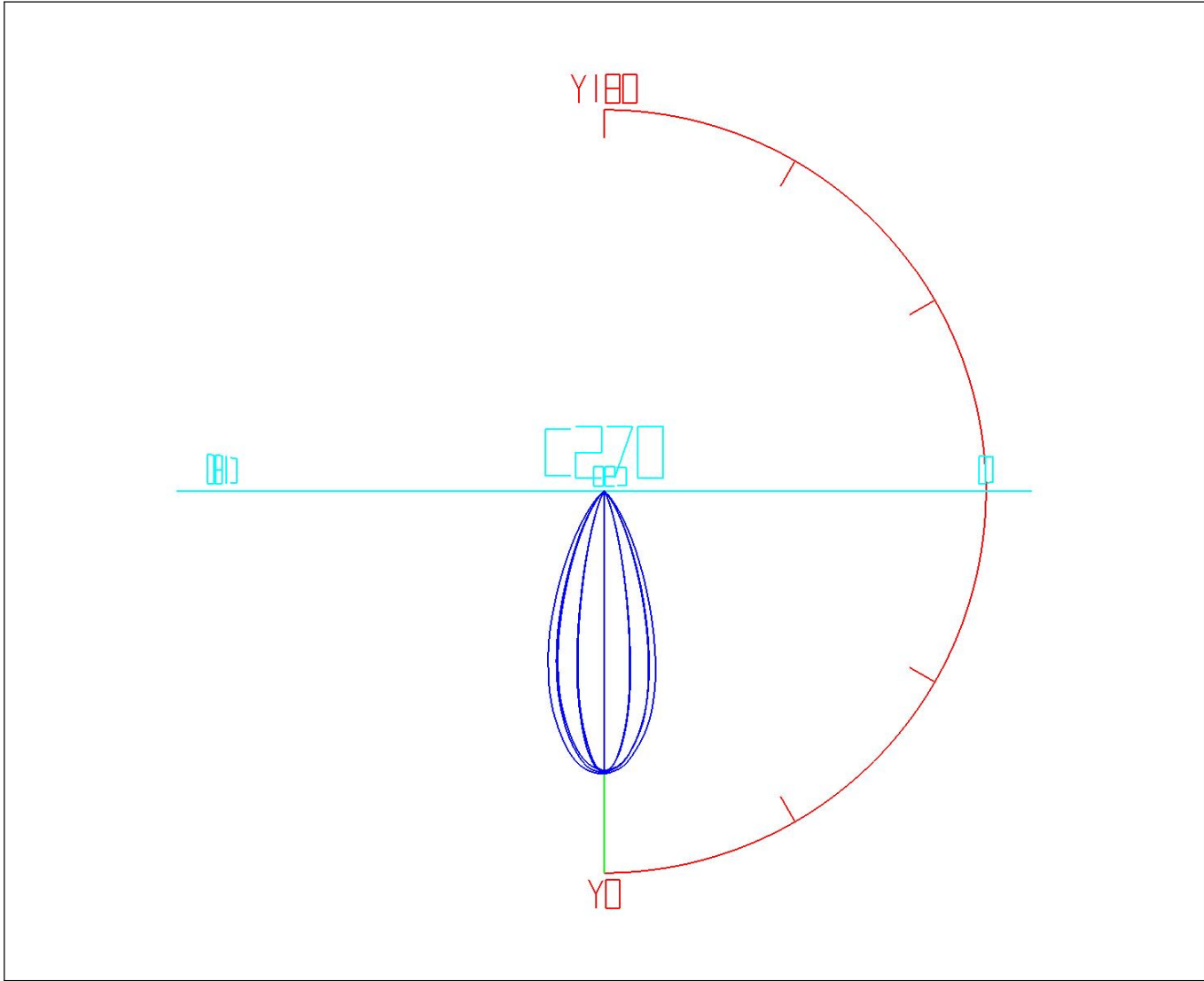


	C Plane	[50%MaxAng.]	[10%MaxAng.]
—	C180.0_360.0 :	42.0	73.7
—	C0.0_180.0 :	42.0	73.7
—	C90.0_270.0 :	41.2	73.1
	Average:	41.7	73.5

3D Light Intensity Distribution Modal

Lum. Name: 148-125	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: 2022/07/02

3D Light Intensity Distribution Modal



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

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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	0.22	0.22	0.17	0.17	47.0-48.0	0.33	125.15	0.26	99.38
1.0-2.0	0.65	0.87	0.52	0.69	48.0-49.0	0.26	125.41	0.21	99.59
2.0-3.0	1.08	1.95	0.86	1.55	49.0-50.0	0.20	125.61	0.16	99.75
3.0-4.0	1.50	3.45	1.19	2.74	50.0-51.0	0.14	125.76	0.11	99.86
4.0-5.0	1.91	5.36	1.51	4.25	51.0-52.0	0.09	125.85	0.07	99.94
5.0-6.0	2.29	7.65	1.82	6.08	52.0-53.0	0.05	125.90	0.04	99.98
6.0-7.0	2.66	10.31	2.11	8.19	53.0-54.0	0.02	125.92	0.02	99.99
7.0-8.0	3.00	13.32	2.39	10.57	54.0-55.0	0.01	125.93	0.00	100.00
8.0-9.0	3.32	16.64	2.64	13.21	55.0-56.0	0.00	125.93	0.00	100.00
9.0-10.0	3.62	20.26	2.87	16.09	56.0-57.0	0.00	125.93	0.00	100.00
10.0-11.0	3.88	24.14	3.08	19.17	57.0-58.0	0.00	125.93	0.00	100.00
11.0-12.0	4.12	28.26	3.27	22.44	58.0-59.0	0.00	125.93	0.00	100.00
12.0-13.0	4.32	32.58	3.43	25.87	59.0-60.0	0.00	125.93	0.00	100.00
13.0-14.0	4.48	37.06	3.56	29.42	60.0-61.0	0.00	125.93	0.00	100.00
14.0-15.0	4.60	41.65	3.65	33.08	61.0-62.0	0.00	125.93	0.00	100.00
15.0-16.0	4.67	46.33	3.71	36.79	62.0-63.0	0.00	125.93	0.00	100.00
16.0-17.0	4.71	51.03	3.74	40.52	63.0-64.0	0.00	125.93	0.00	100.00
17.0-18.0	4.70	55.74	3.73	44.26	64.0-65.0	0.00	125.93	0.00	100.00
18.0-19.0	4.67	60.40	3.70	47.96	65.0-66.0	0.00	125.93	0.00	100.00
19.0-20.0	4.59	65.00	3.65	51.61	66.0-67.0	0.00	125.93	0.00	100.00
20.0-21.0	4.49	69.48	3.56	55.18	67.0-68.0	0.00	125.93	0.00	100.00
21.0-22.0	4.35	73.84	3.46	58.63	68.0-69.0	0.00	125.93	0.00	100.00
22.0-23.0	4.19	78.03	3.33	61.97	69.0-70.0	0.00	125.93	0.00	100.00
23.0-24.0	4.01	82.05	3.19	65.15	70.0-71.0	0.00	125.93	0.00	100.00
24.0-25.0	3.82	85.87	3.04	68.19	71.0-72.0	0.00	125.93	0.00	100.00
25.0-26.0	3.63	89.50	2.88	71.07	72.0-73.0	0.00	125.93	0.00	100.00
26.0-27.0	3.42	92.92	2.72	73.79	73.0-74.0	0.00	125.93	0.00	100.00
27.0-28.0	3.22	96.14	2.56	76.34	74.0-75.0	0.00	125.93	0.00	100.00
28.0-29.0	3.01	99.15	2.39	78.73	75.0-76.0	0.00	125.93	0.00	100.00
29.0-30.0	2.80	101.96	2.23	80.96	76.0-77.0	0.00	125.93	0.00	100.00
30.0-31.0	2.61	104.56	2.07	83.03	77.0-78.0	0.00	125.93	0.00	100.00
31.0-32.0	2.41	106.98	1.92	84.95	78.0-79.0	0.00	125.93	0.00	100.00
32.0-33.0	2.22	109.20	1.77	86.72	79.0-80.0	0.00	125.93	0.00	100.00
33.0-34.0	2.04	111.24	1.62	88.34	80.0-81.0	0.00	125.93	0.00	100.00
34.0-35.0	1.87	113.11	1.48	89.82	81.0-82.0	0.00	125.93	0.00	100.00
35.0-36.0	1.70	114.81	1.35	91.16	82.0-83.0	0.00	125.93	0.00	100.00
36.0-37.0	1.54	116.34	1.22	92.39	83.0-84.0	0.00	125.93	0.00	100.00
37.0-38.0	1.39	117.73	1.10	93.49	84.0-85.0	0.00	125.93	0.00	100.00
38.0-39.0	1.25	118.98	0.99	94.48	85.0-86.0	0.00	125.93	0.00	100.00
39.0-40.0	1.11	120.09	0.88	95.36	86.0-87.0	0.00	125.93	0.00	100.00
40.0-41.0	0.99	121.08	0.78	96.15	87.0-88.0	0.00	125.93	0.00	100.00
41.0-42.0	0.87	121.95	0.69	96.84	88.0-89.0	0.00	125.93	0.00	100.00
42.0-43.0	0.76	122.71	0.60	97.44	89.0-90.0	0.00	125.93	0.00	100.00
43.0-44.0	0.66	123.37	0.53	97.97					
44.0-45.0	0.57	123.94	0.45	98.42					
45.0-46.0	0.48	124.42	0.38	98.80					
46.0-47.0	0.40	124.82	0.32	99.12					

Zonal Flux Tabulation - (Cont.)

Conical surface Flux(90deg):73.839

%lm = 58.63

%lamp = 58.63

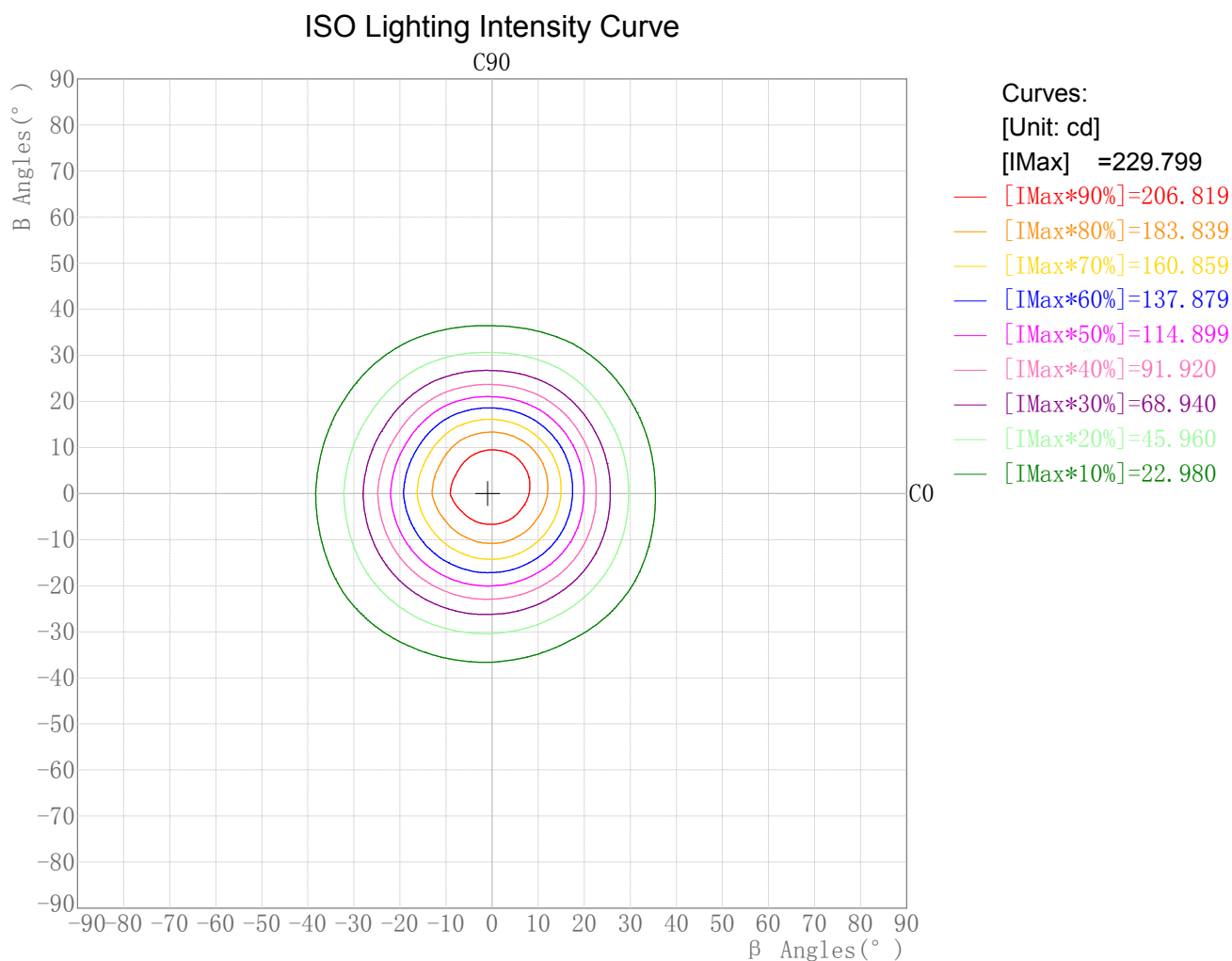
Conical surface Flux(120deg):101.957

%lm = 80.96

%lamp = 80.96

Rectangle ISO Lighting Intensity Diagram

Lum. Name: 148-125	Lum. Catalog: LED MODULE	Test ID: 001
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Manufacture: 5	Test Machine:GON-2000	Test Date: 2022/07/02

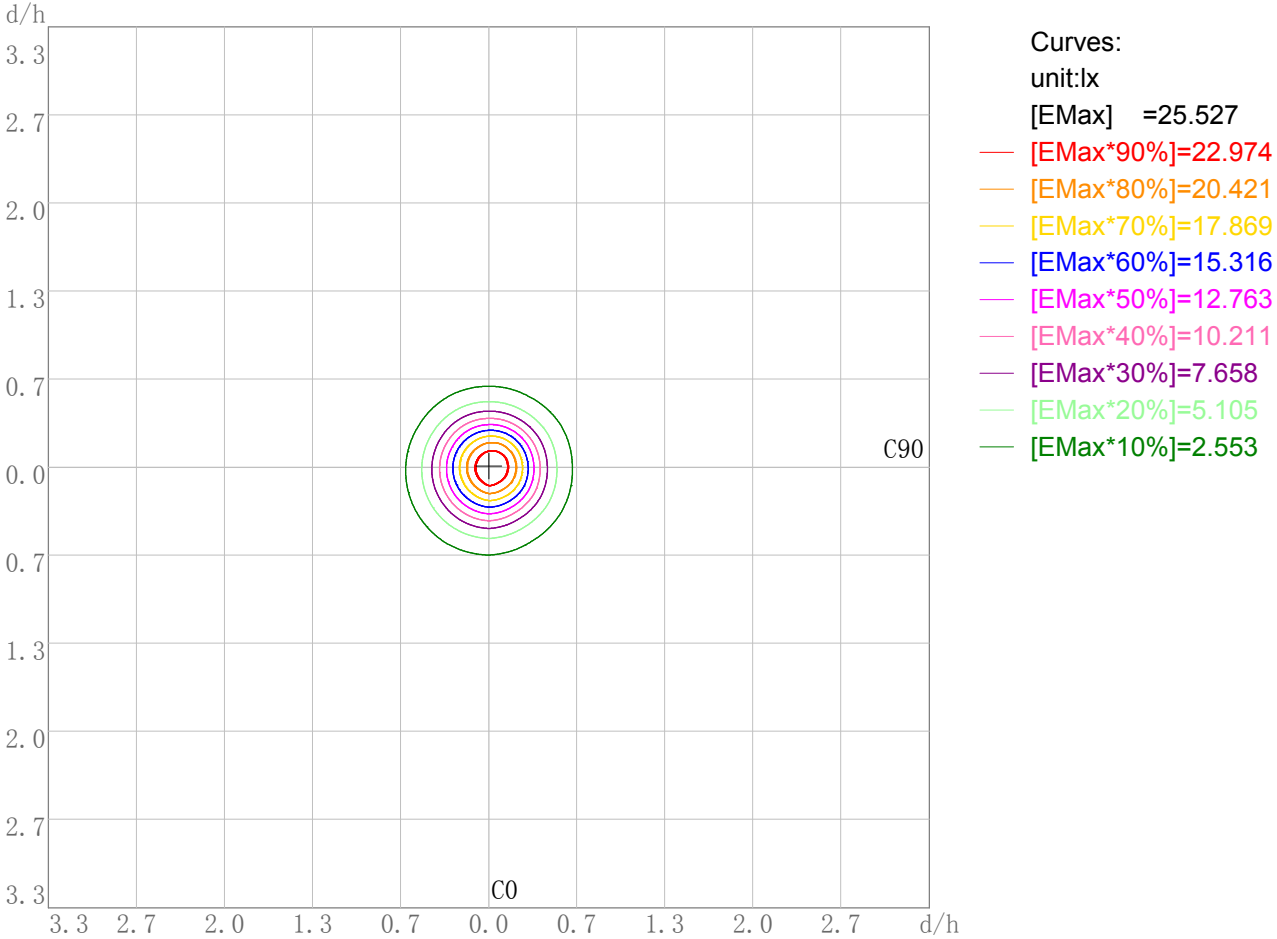


Maximum Light Intensity(cd): 229.80
 Maximum Cand.@Angle: H=-1.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: 148-125	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: 2022/07/02

Plane ISO-Illuminance Curve

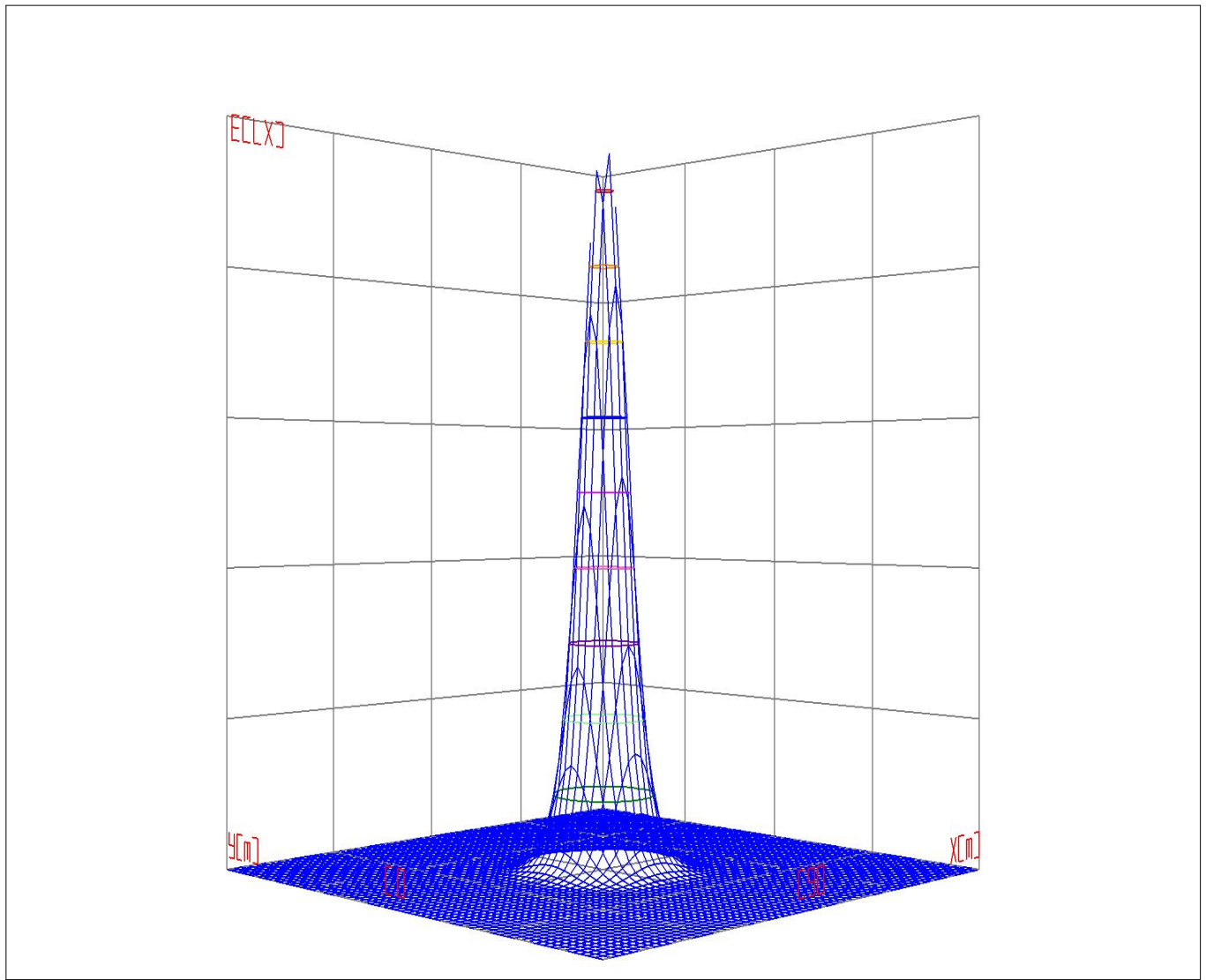


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 25.53
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

3D Plane ISO Illuminance Diagram

Lum. Name: 148-125	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: 2022/07/02

3D Plane Illuminance Modal

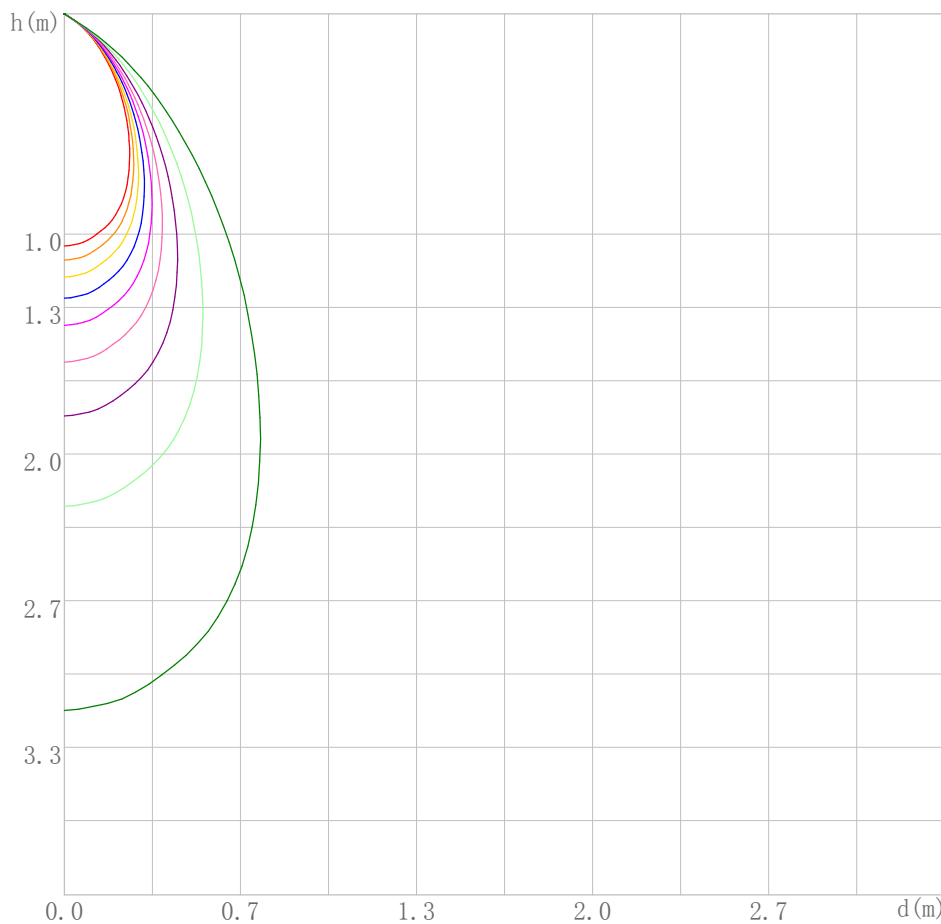


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: 148-125	Lum. Catalog: LED MODULE	Test ID: 001
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Manufacture: 5	Test Machine: GON-2000	Test Date: 2022/07/02

Space ISO Illuminance Curve



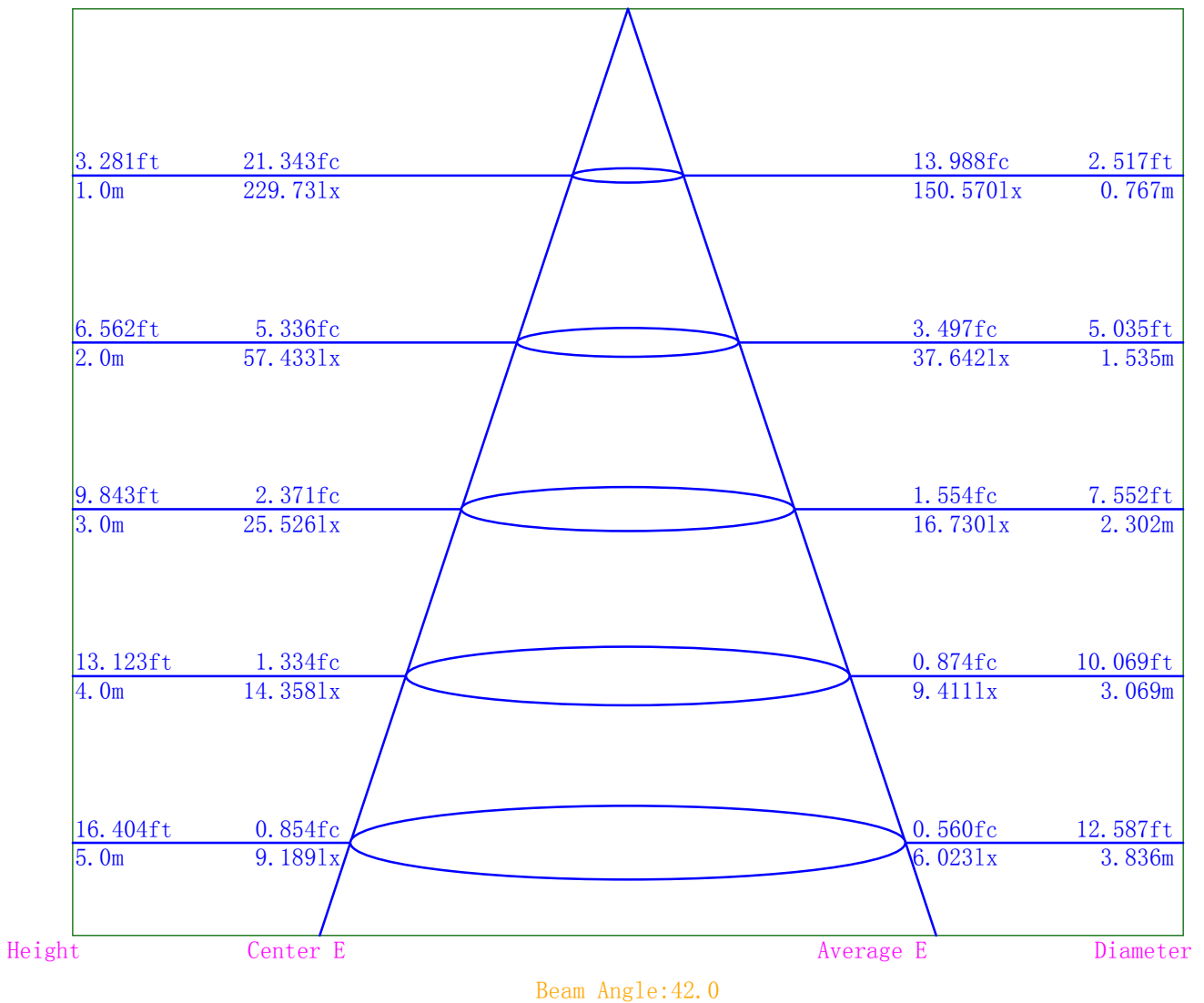
- Curves:
 [Unit: lx]
 [EMax] =229.731
- [EMax*90%]=206.758
 - [EMax*80%]=183.785
 - [EMax*70%]=160.812
 - [EMax*60%]=137.839
 - [EMax*50%]=114.866
 - [EMax*40%]=91.892
 - [EMax*30%]=68.919
 - [EMax*20%]=45.946
 - [EMax*10%]=22.973

Space Plane Maximum Illuminance and @Angle:229.73lx,0.0deg
 Plane Maximum Lighting Intensity and @Angle:229.731cd,0deg

Illuminance-Distance Diagram

Lum. Name: 148-125	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: 2022/07/02

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: 148-125	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: 2022/07/02

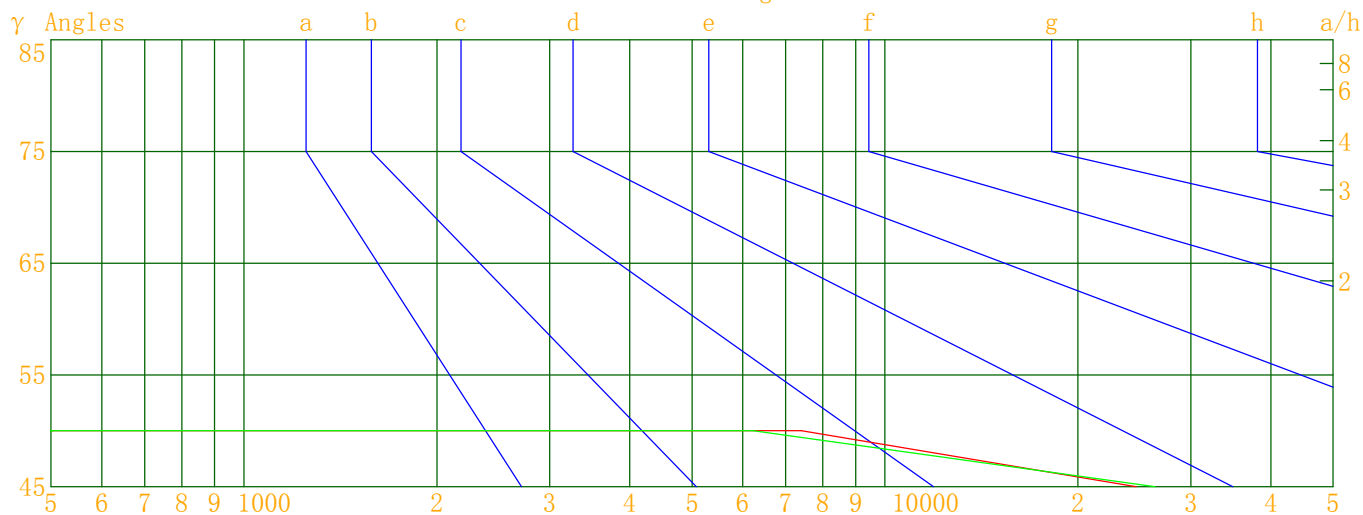
Glare Grade Table

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	24651	7408	0	0	0	0	0	0	0
C90	26397	6225	0	0	0	0	0	0	0

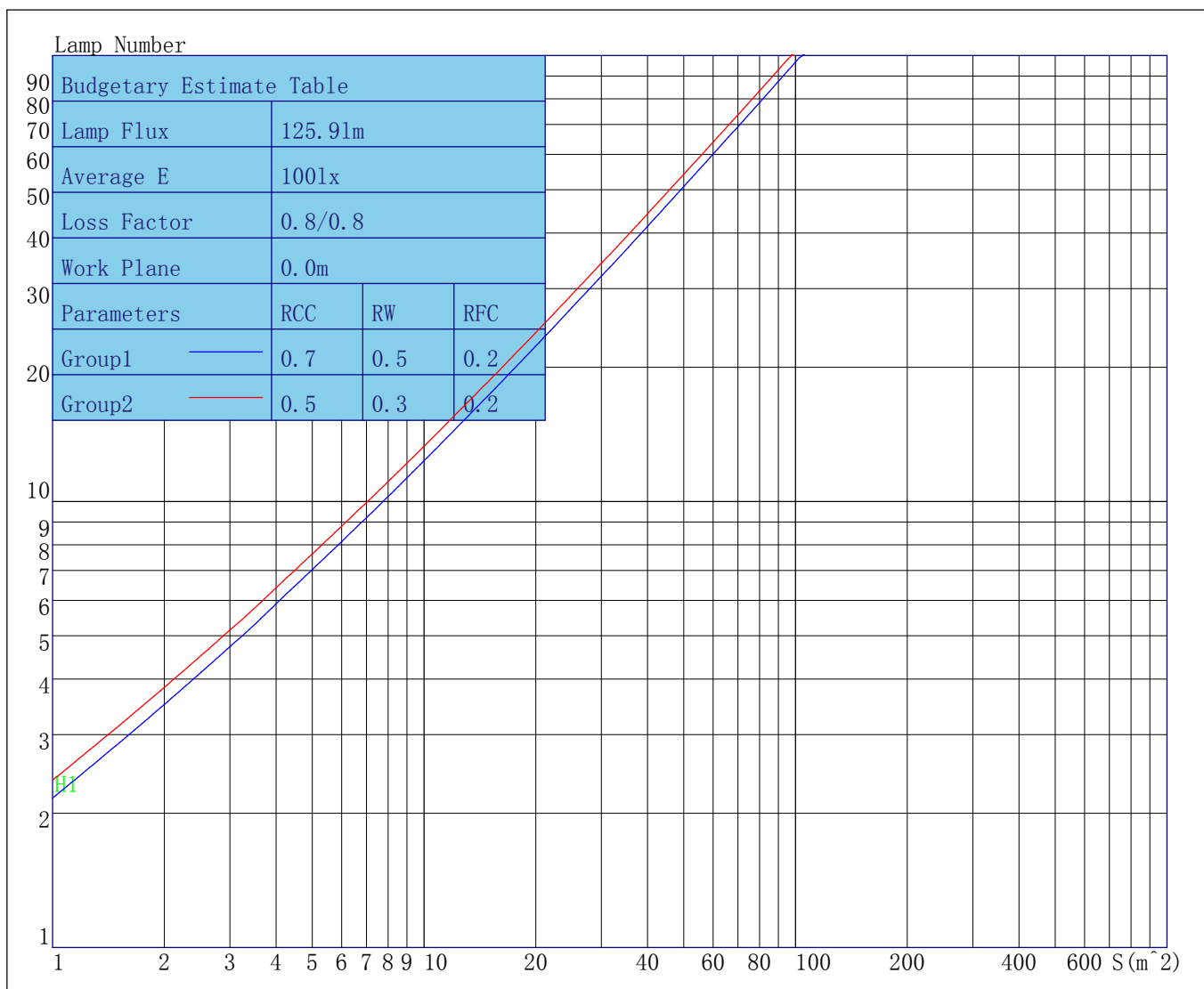
Luminance Limiting Curve



Luminous Size: Length(m)=-0.020 Width(m)=-0.020 Height(m)=0.000 Area(m^2)=0.000314
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: 148-125	Lum. Catalog: LED MODULE	Test ID: 001
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Manufacture: 5	Test Machine: GON-2000	Test Date: 2022/07/02



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: 148-125	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: 2022/07/02

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	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	98	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67
8	84	75	70	66	83	75	70	66	74	69	66	73	68	65	72	68	65	64
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	68	63	60	76	68	63	60	67	63	59	66	62	59	66	62	59	58

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Unified Glare Rating Table

Lum. Name: 148-125	Lum. Catalog: LED MODULE	Test ID: 001
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Manufacture: 5	Test Machine:GON-2000	Test Date: 2022/07/02

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	18.3	19.2	18.6	19.5	19.8	19.1	20.1	19.5	20.4	20.7
Y=3H	18.0	18.9	18.4	19.2	19.6	18.9	19.7	19.3	20.1	20.4
Y=4H	17.9	18.7	18.4	19.0	19.4	18.8	19.6	19.2	19.9	20.3
Y=6H	17.8	18.5	18.2	18.9	19.3	18.7	19.4	19.1	19.8	20.2
Y=8H	17.8	18.4	18.2	18.8	19.2	18.7	19.3	19.1	19.7	20.1
Y=12H	17.7	18.3	18.1	18.7	19.1	18.6	19.2	19.0	19.6	20.0
X=4H Y=2H	17.9	18.7	18.4	19.0	19.4	18.8	19.6	19.2	19.9	20.3
Y=3H	17.7	18.3	18.1	18.7	19.1	18.6	19.2	19.0	19.6	20.0
Y=4H	17.6	18.1	18.0	18.6	19.0	18.5	19.0	18.9	19.4	19.9
Y=6H	17.5	17.9	18.0	18.4	18.9	18.4	18.8	18.8	19.3	19.7
Y=8H	17.4	17.8	17.9	18.3	18.8	18.3	18.7	18.8	19.2	19.6
Y=12H	17.3	17.7	17.8	18.2	18.7	18.2	18.6	18.7	19.1	19.5
X=8H Y=4H	17.4	17.8	17.9	18.3	18.8	18.3	18.7	18.8	19.2	19.6
Y=6H	17.3	17.6	17.8	18.1	18.6	18.2	18.5	18.7	19.0	19.5
Y=8H	17.2	17.5	17.7	18.0	18.5	18.1	18.4	18.6	18.9	19.4
Y=12H	17.1	17.4	17.7	17.9	18.5	18.0	18.3	18.6	18.8	19.4
X=12H Y=4H	17.3	17.7	17.8	18.2	18.7	18.2	18.6	18.7	19.1	19.5
Y=6H	17.2	17.5	17.7	18.0	18.5	18.1	18.4	18.6	18.9	19.4
Y=8H	17.1	17.4	17.7	17.9	18.5	18.0	18.3	18.6	18.8	19.4
Variations with the objverer 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	0.0					0.0				

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

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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	229.73	228.21	227.74	227.56	227.23	227.04	229.73	228.21	227.74	227.56	227.23	227.04
γ 1.0	229.01	228.44	228.35	228.30	227.75	226.90	229.80	227.69	226.68	225.99	225.88	226.07
γ 2.0	227.59	227.68	228.29	228.23	228.11	226.67	228.82	226.22	224.75	223.94	223.73	224.33
γ 3.0	226.16	226.80	228.13	228.03	227.82	225.63	227.79	224.54	222.52	221.32	221.38	222.41
γ 4.0	223.88	225.53	226.96	226.94	226.44	224.36	226.00	221.97	219.26	217.85	217.82	219.50
γ 5.0	220.46	222.95	224.71	224.64	224.02	222.05	223.88	218.59	215.55	214.09	214.15	216.17
γ 6.0	216.27	219.56	221.72	221.28	220.67	219.04	220.71	214.48	211.40	209.78	210.06	212.26
γ 7.0	211.65	215.35	217.89	217.43	216.83	215.16	216.88	209.70	206.81	205.23	205.70	207.40
γ 8.0	207.02	211.20	213.98	213.58	212.74	210.89	212.31	205.08	201.74	200.12	200.46	202.36
γ 9.0	202.11	206.47	209.17	209.12	208.37	206.10	207.35	199.88	196.13	194.76	194.99	196.93
γ 10.0	196.60	201.70	204.25	204.47	203.64	200.75	201.65	194.32	190.21	188.78	189.04	190.93
γ 11.0	190.77	196.14	198.85	199.03	198.63	195.46	195.94	188.50	184.08	182.61	182.94	184.82
γ 12.0	183.91	189.40	192.46	193.10	192.84	189.30	190.04	182.13	177.51	176.18	176.31	178.48
γ 13.0	176.55	182.00	185.44	186.32	186.70	183.38	184.01	175.83	171.37	169.94	169.93	171.77
γ 14.0	168.59	173.75	177.46	178.92	179.70	176.91	177.12	169.25	164.35	162.78	162.68	164.22
γ 15.0	160.25	165.11	168.67	170.52	172.06	169.31	170.37	162.43	157.89	154.94	154.73	156.34
γ 16.0	151.34	155.89	159.35	161.74	164.03	161.42	163.17	155.33	150.62	147.11	146.83	148.03
γ 17.0	142.22	146.50	150.26	152.23	155.55	153.57	155.13	147.89	142.85	139.09	137.72	139.52
γ 18.0	132.71	137.22	141.13	142.96	146.64	145.06	147.22	140.53	134.93	130.97	129.20	131.06
γ 19.0	123.52	127.61	131.76	133.98	137.54	136.92	139.80	132.93	127.64	123.09	120.98	122.57
γ 20.0	114.17	118.09	122.24	124.61	128.55	128.22	131.79	125.11	119.37	115.14	112.81	114.22
γ 21.0	105.52	108.76	113.04	115.13	119.50	118.90	123.91	117.26	111.43	106.80	104.94	105.67
γ 22.0	96.78	99.64	104.18	106.11	110.55	110.34	115.41	109.63	103.72	98.82	96.93	97.52
γ 23.0	88.42	91.04	95.71	97.39	101.50	101.71	106.26	101.63	95.89	91.32	89.00	89.51
γ 24.0	80.70	83.11	87.68	89.03	93.22	93.09	98.20	93.76	87.72	84.08	81.22	81.94
γ 25.0	73.38	75.41	79.79	81.12	85.31	85.36	90.72	86.34	81.03	77.11	74.50	74.66
γ 26.0	66.57	68.24	72.64	73.77	77.87	77.71	83.10	79.10	74.47	70.21	67.78	67.75
γ 27.0	60.33	61.49	65.93	66.86	70.90	70.74	75.85	72.53	67.90	64.25	61.63	61.42
γ 28.0	54.62	55.37	59.69	60.35	64.50	64.34	69.00	66.17	62.00	58.06	55.78	55.54
γ 29.0	49.12	49.83	54.20	54.51	58.40	58.19	62.57	60.16	56.00	52.66	49.80	49.98
γ 30.0	44.11	44.71	48.70	49.02	52.65	52.62	56.60	54.91	50.71	47.69	44.72	44.81
γ 31.0	39.31	40.00	43.70	43.92	47.29	47.45	51.63	49.79	46.24	43.15	40.33	40.24
γ 32.0	35.01	35.67	39.11	39.25	42.17	42.74	46.77	45.18	41.58	38.61	36.02	36.11
γ 33.0	30.96	31.66	35.06	35.01	37.66	38.28	42.16	40.75	37.46	34.60	32.02	32.24
γ 34.0	27.47	28.12	31.16	31.00	33.42	34.21	37.77	36.61	33.57	30.87	28.56	28.90
γ 35.0	24.20	24.98	27.63	27.54	29.86	30.50	33.59	32.82	29.64	27.56	25.13	25.56
γ 36.0	21.35	21.82	24.44	24.18	26.52	27.20	29.88	29.32	26.35	24.54	22.00	22.61
γ 37.0	18.63	19.15	21.32	21.20	23.42	24.09	26.92	26.26	23.46	21.93	19.52	20.10
γ 38.0	16.23	16.68	18.59	18.55	20.55	21.26	23.84	23.36	20.57	19.36	17.17	17.71
γ 39.0	14.00	14.32	16.22	16.08	18.01	18.67	20.94	20.65	18.14	17.20	15.00	15.41
γ 40.0	12.14	12.24	13.91	13.80	15.77	16.30	18.50	18.37	15.88	14.96	12.92	13.35
γ 41.0	10.56	10.53	11.99	11.77	13.72	14.08	16.04	16.05	13.54	12.95	10.96	11.72
γ 42.0	9.11	8.87	10.34	9.99	11.85	12.20	13.94	13.90	11.73	11.28	9.44	9.97
γ 43.0	7.74	7.42	8.77	8.44	10.21	10.26	12.09	12.27	10.08	9.68	8.07	8.64
γ 44.0	6.59	6.15	7.52	7.03	8.75	8.73	10.48	10.71	8.64	8.30	6.68	7.30
γ 45.0	5.48	4.94	6.24	5.86	7.26	7.29	8.94	9.25	7.27	6.98	5.49	6.07
γ 46.0	4.43	3.78	5.19	4.65	6.02	6.09	7.52	7.87	6.01	5.97	4.40	4.97

