

IES Indoor Report

Photometric Filename:148-162_190_191.IES

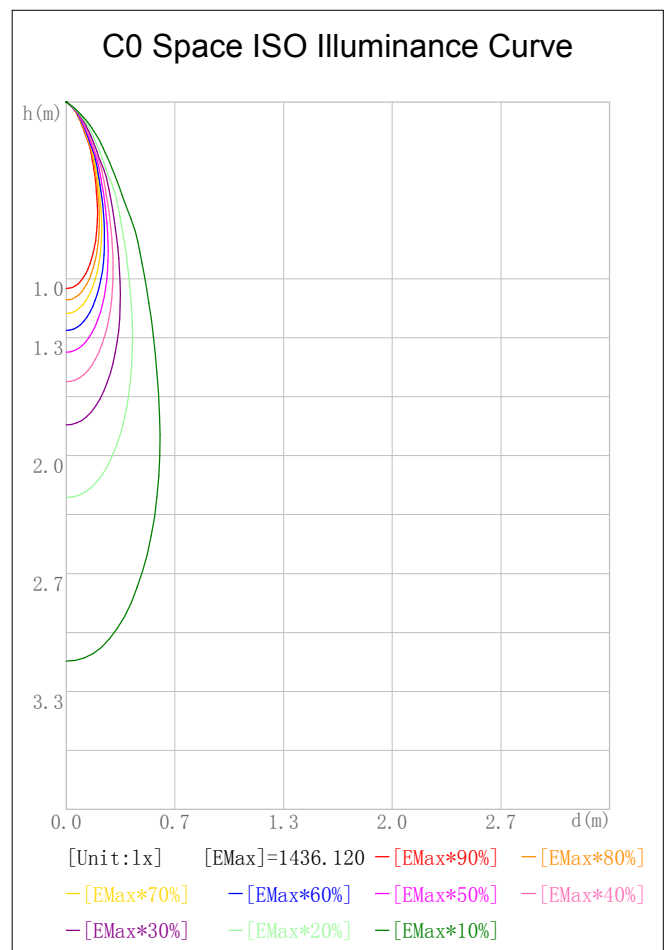
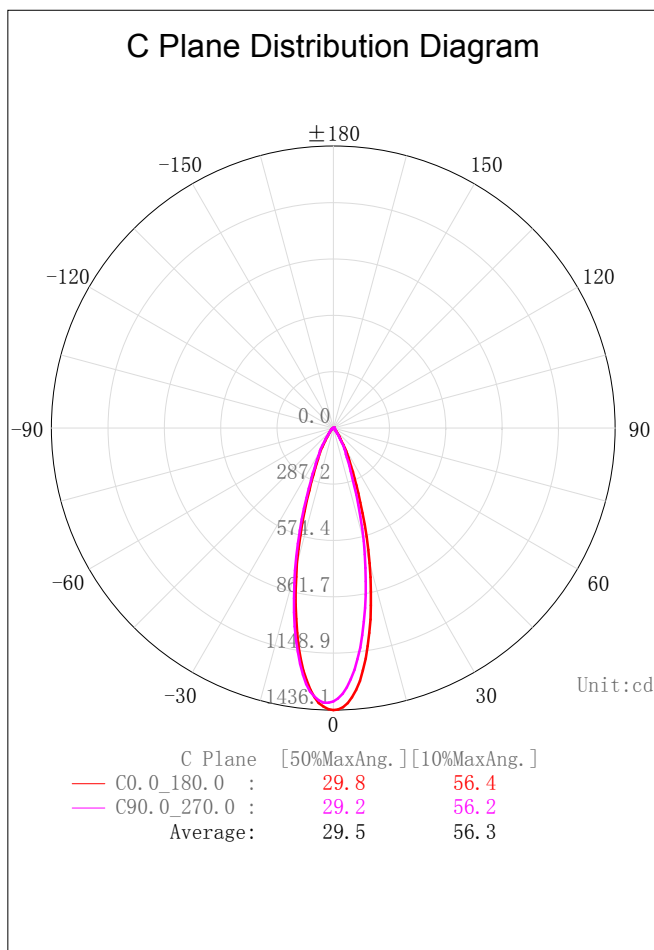
Indoor Luminaire Photometric Data

Description Information

Luminary Name: 148-162_190_191		Lum. Catalog: LED MODULE	Test ID: 001
Lamp Name: LED MODULE		Lamp Catalog: LED MODULE	Test Date: 2022/07/04
Manufacture: 5		Shld. Ang(°):	Test Machine:GON-2000
Test Lab: Volnic IES		Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H): 30mm*-30mm*0mm		Lum. Area (m2): 0.001	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): 446.138		Luminary Flux(lm): 446.138	Field Angle(10%Imax): 56.4(°)
Rated Power(W):		Luminary Efficiency: 100.00%	Down Lumens&Percent: 446.138lm 100.00%
Rated Voltage(V): 220		Luminary EER(lm/W): 61.895	Up Lumens&Percent: -0.000lm 0.00%
Tested Power(W): 7.208		Max. Candela(cd): 1436.120	S/MH: C0_a180=0.497 C90_270=0.477
Lamps' Inside: 1		Max Cand@Ang.(°): C=0.0 γ =0.0	CIE Type: Semi-Direct
Tested Electrics(V, A, pf): 10.3, 0.701		Beam Angle(50%Imax): 29.8(°)	ErP Φ use(90°): 437.434lm
Lamp Size(W*L*H): 30mm*-30mm*0mm		Left=-14.9°, Right=14.9°	IRF (%): 636.233



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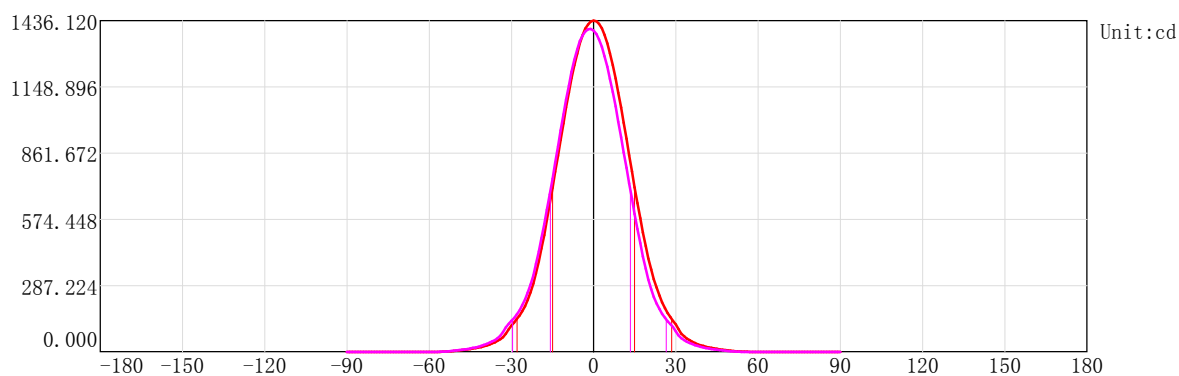
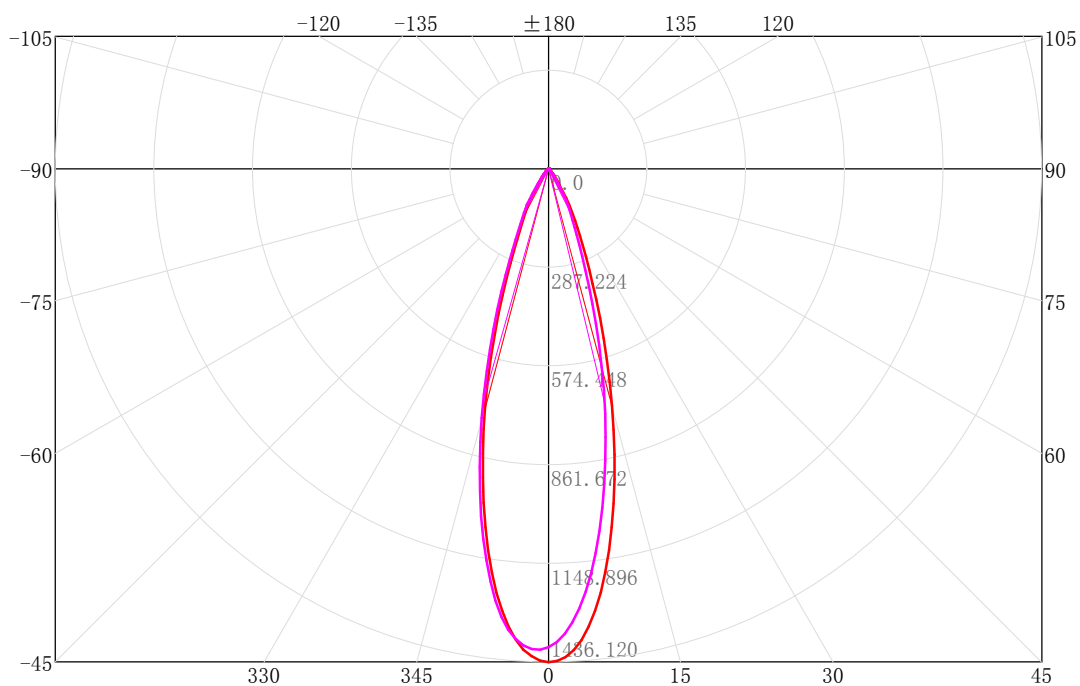
Average brightness table(cd/m2)

Angle value	Average	Average	Average
Y(°)	L0	L45	L90
45	26431	23030	19411
55	2753	906	0
65	0	0	0
75	0	0	0
85	0	0	0

2D Plane Light Intensity Distribution Curve

Lum. Name: 148-162_190_191	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: 2022/07/04

C Plane Distribution Diagram

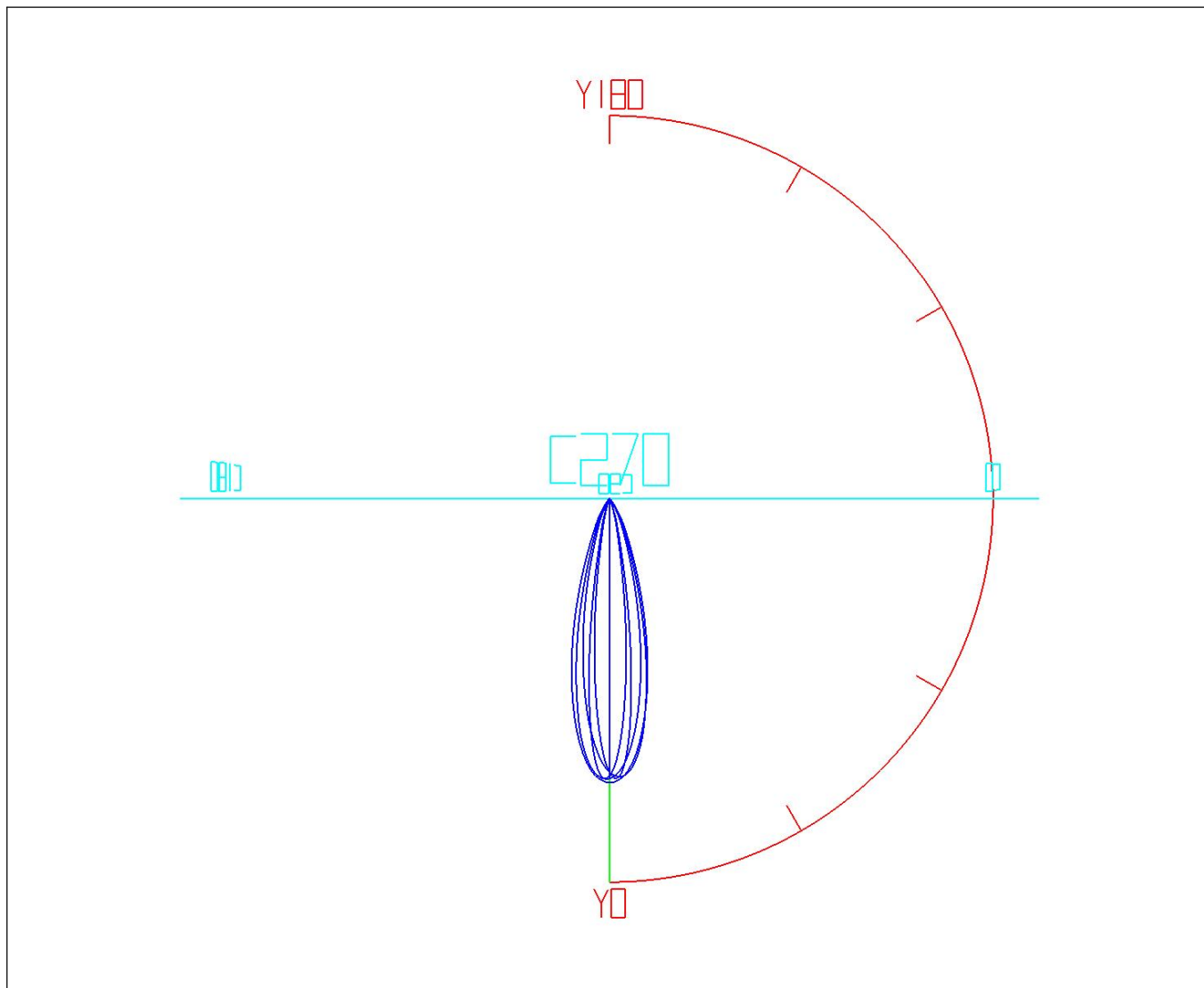


	C Plane	[50%MaxAng.]	[10%MaxAng.]
— (Red)	C0.0_180.0 :	29.8	56.4
— (Purple)	C90.0_270.0 :	29.2	56.2
	Average:	29.5	56.3

3D Light Intensity Distribution Modal

Lum. Name: 148-162_190_191	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: 2022/07/04

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	1.34	1.34	0.30	0.30	47.0-48.0	0.69	443.89	0.15	99.50
1.0-2.0	4.00	5.34	0.90	1.20	48.0-49.0	0.58	444.47	0.13	99.63
2.0-3.0	6.59	11.92	1.48	2.67	49.0-50.0	0.47	444.94	0.11	99.73
3.0-4.0	9.06	20.98	2.03	4.70	50.0-51.0	0.37	445.31	0.08	99.82
4.0-5.0	11.37	32.35	2.55	7.25	51.0-52.0	0.28	445.60	0.06	99.88
5.0-6.0	13.47	45.82	3.02	10.27	52.0-53.0	0.20	445.80	0.05	99.92
6.0-7.0	15.34	61.16	3.44	13.71	53.0-54.0	0.14	445.94	0.03	99.95
7.0-8.0	16.93	78.08	3.79	17.50	54.0-55.0	0.09	446.03	0.02	99.98
8.0-9.0	18.22	96.30	4.08	21.59	55.0-56.0	0.06	446.08	0.01	99.99
9.0-10.0	19.21	115.51	4.31	25.89	56.0-57.0	0.03	446.12	0.01	100.00
10.0-11.0	19.90	135.41	4.46	30.35	57.0-58.0	0.02	446.13	0.00	100.00
11.0-12.0	20.29	155.70	4.55	34.90	58.0-59.0	0.01	446.14	0.00	100.00
12.0-13.0	20.40	176.10	4.57	39.47	59.0-60.0	0.00	446.14	0.00	100.00
13.0-14.0	20.25	196.35	4.54	44.01	60.0-61.0	0.00	446.14	0.00	100.00
14.0-15.0	19.85	216.21	4.45	48.46	61.0-62.0	0.00	446.14	0.00	100.00
15.0-16.0	19.21	235.41	4.31	52.77	62.0-63.0	0.00	446.14	0.00	100.00
16.0-17.0	18.36	253.77	4.11	56.88	63.0-64.0	0.00	446.14	0.00	100.00
17.0-18.0	17.34	271.11	3.89	60.77	64.0-65.0	0.00	446.14	0.00	100.00
18.0-19.0	16.22	287.34	3.64	64.41	65.0-66.0	0.00	446.14	0.00	100.00
19.0-20.0	15.05	302.38	3.37	67.78	66.0-67.0	0.00	446.14	0.00	100.00
20.0-21.0	13.86	316.24	3.11	70.88	67.0-68.0	0.00	446.14	0.00	100.00
21.0-22.0	12.72	328.96	2.85	73.73	68.0-69.0	0.00	446.14	0.00	100.00
22.0-23.0	11.66	340.61	2.61	76.35	69.0-70.0	0.00	446.14	0.00	100.00
23.0-24.0	10.69	351.30	2.40	78.74	70.0-71.0	0.00	446.14	0.00	100.00
24.0-25.0	9.83	361.13	2.20	80.95	71.0-72.0	0.00	446.14	0.00	100.00
25.0-26.0	9.06	370.19	2.03	82.98	72.0-73.0	0.00	446.14	0.00	100.00
26.0-27.0	8.38	378.57	1.88	84.86	73.0-74.0	0.00	446.14	0.00	100.00
27.0-28.0	7.77	386.34	1.74	86.60	74.0-75.0	0.00	446.14	0.00	100.00
28.0-29.0	7.18	393.52	1.61	88.21	75.0-76.0	0.00	446.14	0.00	100.00
29.0-30.0	6.56	400.08	1.47	89.68	76.0-77.0	0.00	446.14	0.00	100.00
30.0-31.0	5.88	405.96	1.32	90.99	77.0-78.0	0.00	446.14	0.00	100.00
31.0-32.0	5.16	411.12	1.16	92.15	78.0-79.0	0.00	446.14	0.00	100.00
32.0-33.0	4.46	415.59	1.00	93.15	79.0-80.0	0.00	446.14	0.00	100.00
33.0-34.0	3.84	419.43	0.86	94.01	80.0-81.0	0.00	446.14	0.00	100.00
34.0-35.0	3.35	422.78	0.75	94.76	81.0-82.0	0.00	446.14	0.00	100.00
35.0-36.0	2.97	425.75	0.67	95.43	82.0-83.0	0.00	446.14	0.00	100.00
36.0-37.0	2.65	428.40	0.59	96.02	83.0-84.0	0.00	446.14	0.00	100.00
37.0-38.0	2.37	430.77	0.53	96.56	84.0-85.0	0.00	446.14	0.00	100.00
38.0-39.0	2.11	432.89	0.47	97.03	85.0-86.0	0.00	446.14	0.00	100.00
39.0-40.0	1.88	434.77	0.42	97.45	86.0-87.0	0.00	446.14	0.00	100.00
40.0-41.0	1.67	436.43	0.37	97.82	87.0-88.0	0.00	446.14	0.00	100.00
41.0-42.0	1.48	437.92	0.33	98.16	88.0-89.0	0.00	446.14	0.00	100.00
42.0-43.0	1.32	439.24	0.30	98.45	89.0-90.0	0.00	446.14	0.00	100.00
43.0-44.0	1.18	440.42	0.27	98.72					
44.0-45.0	1.05	441.47	0.24	98.95					
45.0-46.0	0.92	442.40	0.21	99.16					
46.0-47.0	0.80	443.20	0.18	99.34					

Zonal Flux Tabulation - (Cont.)

Conical surface Flux(90deg):328.957

%lm = 73.73

%lamp = 73.73

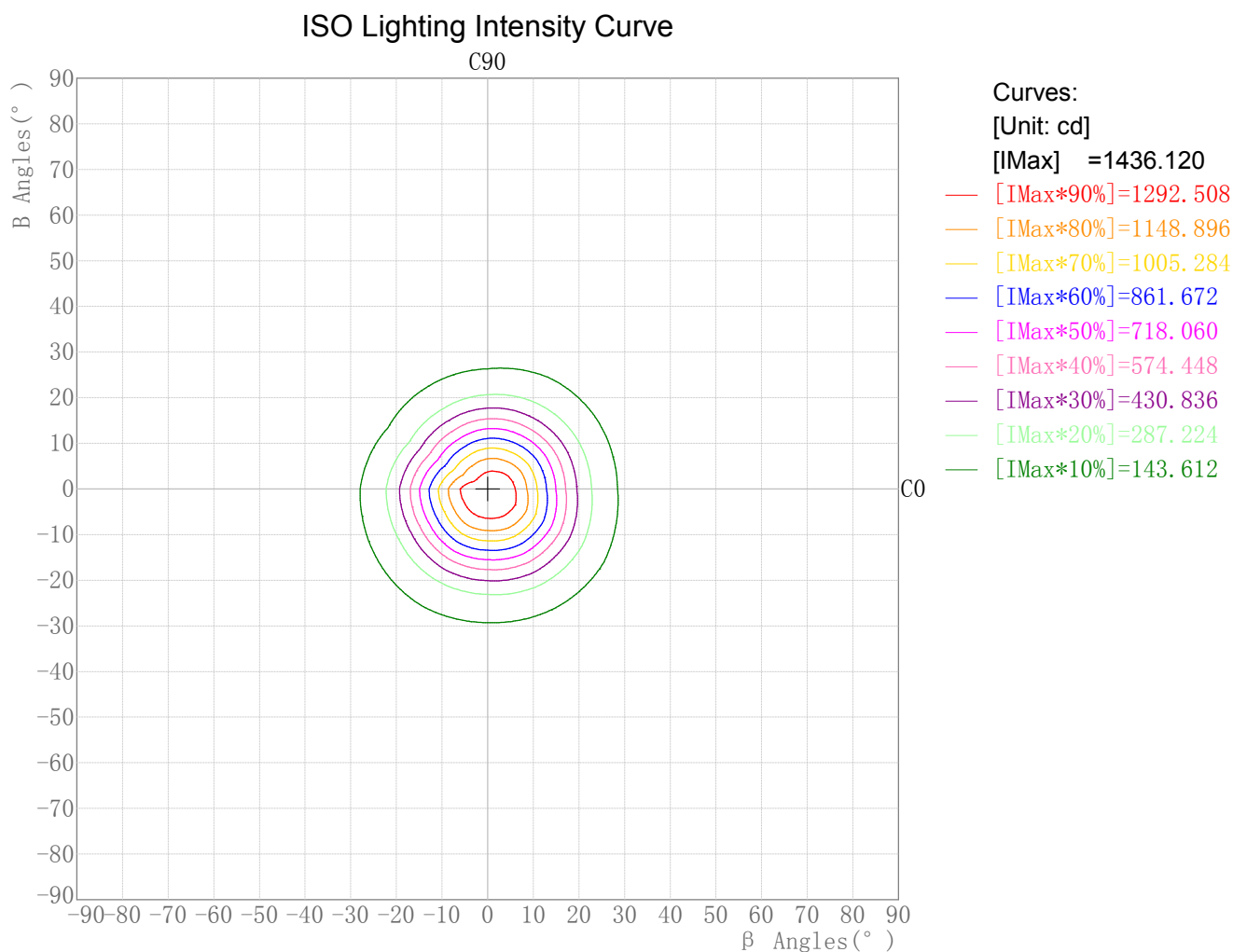
Conical surface Flux(120deg):400.083

%lm = 89.68

%lamp = 89.68

Rectangle ISO Lighting Intensity Diagram

Lum. Name: 148-162_190_191	Lum. Catalog: LED MODULE	Test ID: 001
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Manufacture: 5	Test Machine: GON-2000	Test Date: 2022/07/04

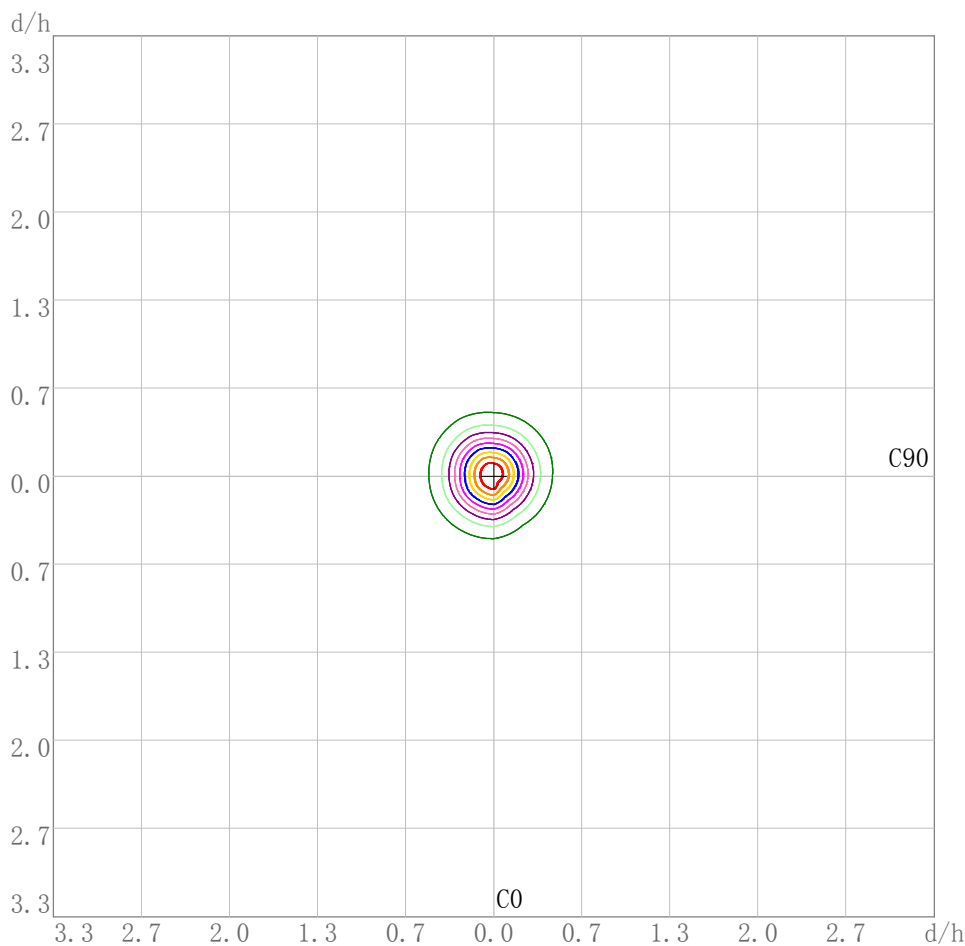


Maximum Light Intensity(cd): 1436.12
 Maximum Cand.@Angle: H=0.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: 148-162_190_191	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: 2022/07/04

Plane ISO-Illuminance Curve



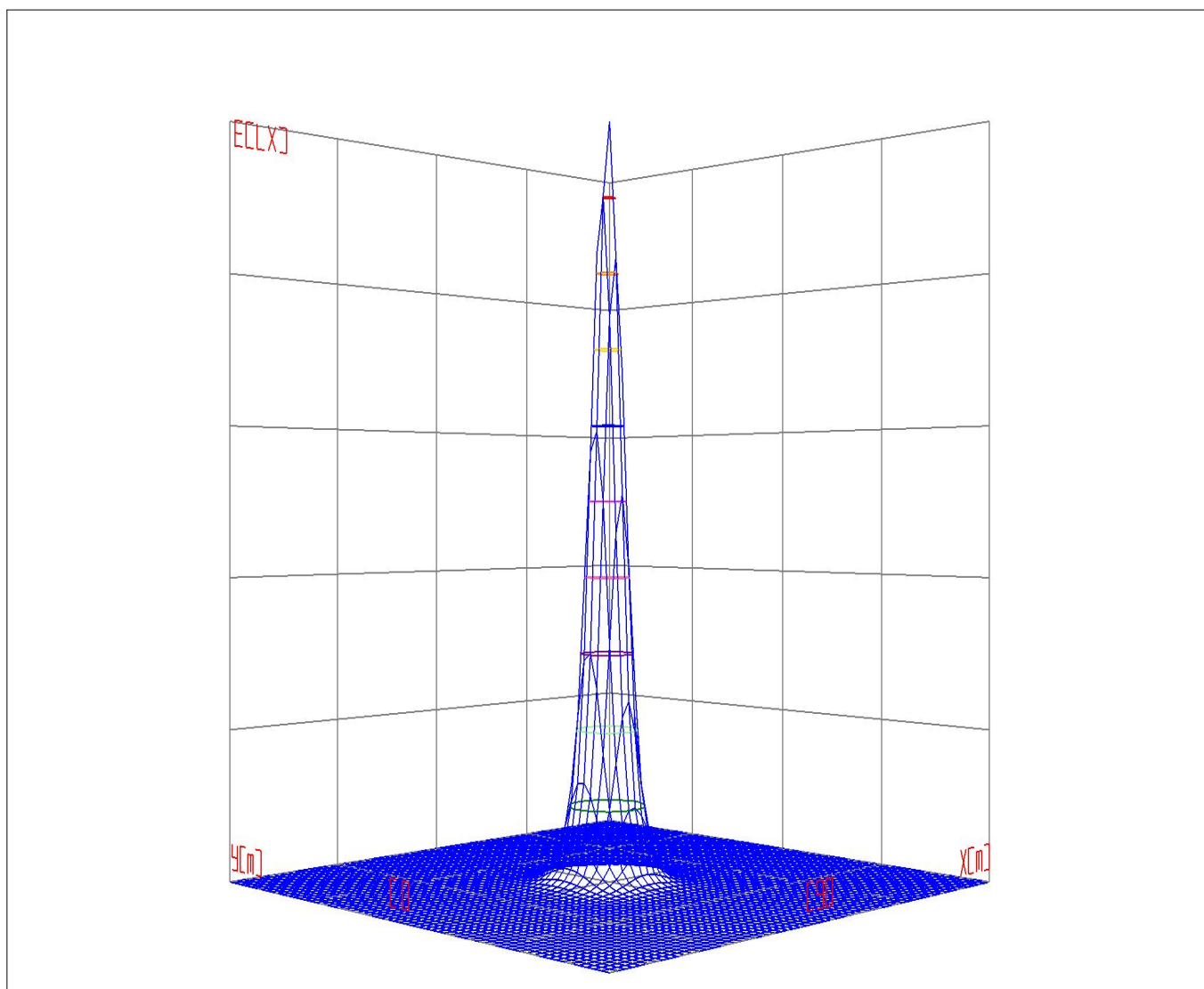
- Curves:
unit:lx
[EMax] =159.569
— [EMax*90%]=143.612
— [EMax*80%]=127.655
— [EMax*70%]=111.698
— [EMax*60%]=95.741
— [EMax*50%]=79.784
— [EMax*40%]=63.828
— [EMax*30%]=47.871
— [EMax*20%]=31.914
— [EMax*10%]=15.957

Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 159.57
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: 148-162_190_191	Lum. Catalog: LED MODULE	Test ID: 001
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Manufacture: 5	Test Machine: GON-2000	Test Date: 2022/07/04

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: 148-162_190_191	Lum. Catalog: LED MODULE	Test ID: 001
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Manufacture: 5	Test Machine: GON-2000	Test Date: 2022/07/04

Space ISO Illuminance Curve



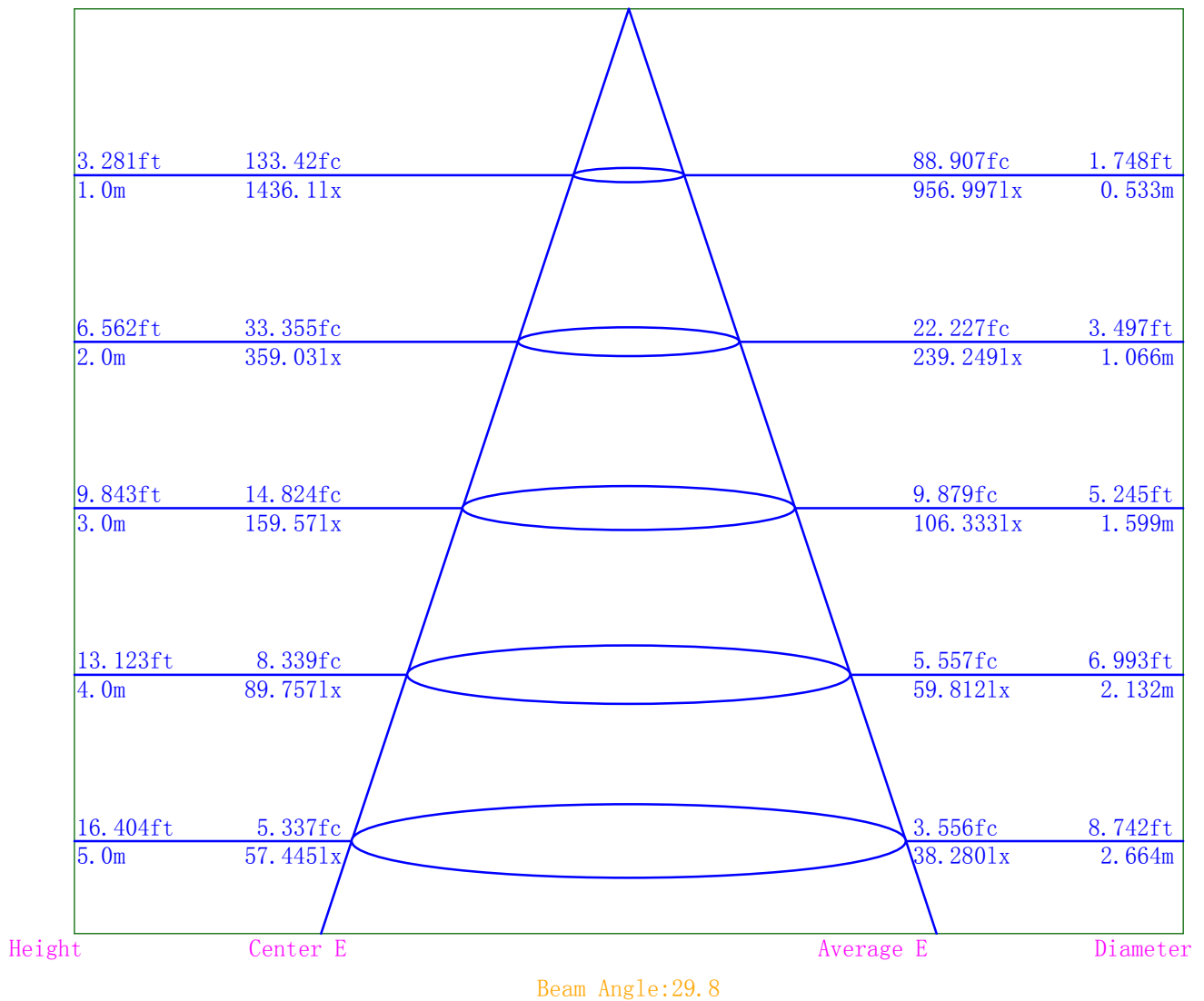
- Curves:
 [Unit: lx]
 [EMax] =1436.120
- [EMax*90%]=1292.508
 - [EMax*80%]=1148.896
 - [EMax*70%]=1005.284
 - [EMax*60%]=861.672
 - [EMax*50%]=718.060
 - [EMax*40%]=574.448
 - [EMax*30%]=430.836
 - [EMax*20%]=287.224
 - [EMax*10%]=143.612

Space Plane Maximum Illuminance and @Angle:1436.12lx,0.0deg
 Plane Maximum Lighting Intensity and @Angle:1436.120cd,0deg

Illuminance-Distance Diagram

Lum. Name: 148-162_190_191	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: 2022/07/04

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: 148-162_190_191	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: 2022/07/04

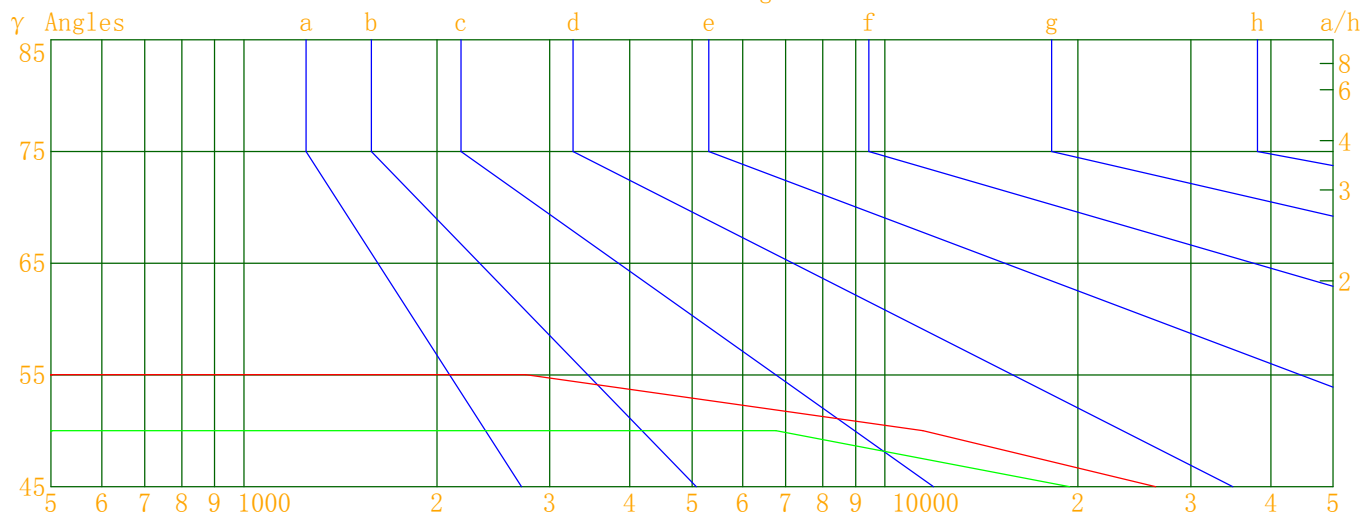
Glare Grade Table

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	26431	11456	2753	0	0	0	0	0	0
C90	19411	6761	0	0	0	0	0	0	0

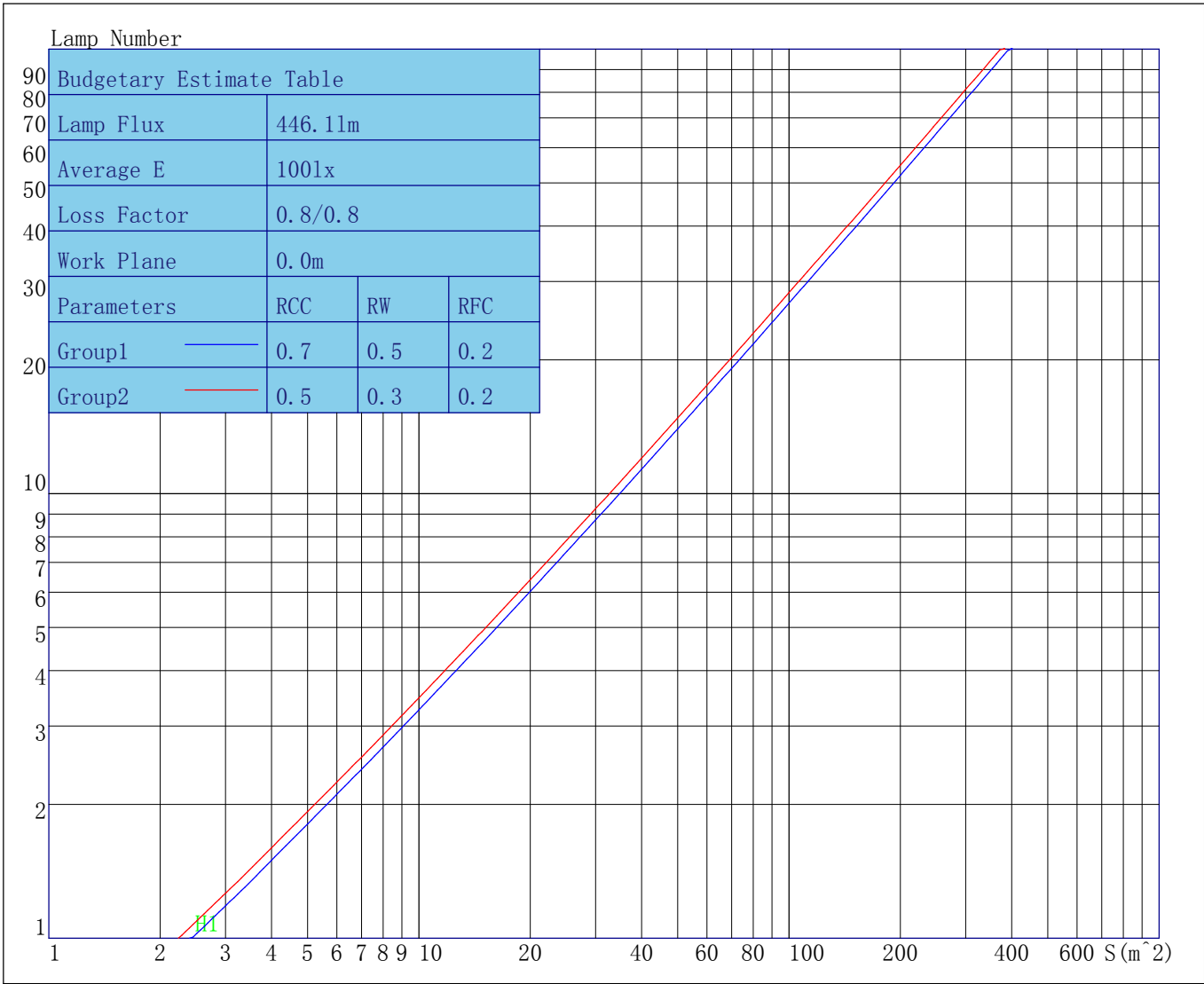
Luminance Limiting Curve



Luminous Size: Length(m)=-0.030 Width(m)=-0.030 Height(m)=0.000 Area(m^2)=0.000707
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: 148-162_190_191	Lum. Catalog: LED MODULE	Test ID: 001
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Manufacture: 5	Test Machine: GON-2000	Test Date: 2022/07/04



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: 148-162_190_191	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: 2022/07/04

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	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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96			
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	94	93	92			
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88			
4	102	96	92	89	101	95	91	88	93	90	87	91	89	86	90	87	85	84			
5	99	92	88	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80			
6	95	88	84	80	94	88	83	80	86	82	79	85	82	79	84	81	78	77			
7	92	85	80	77	91	84	80	77	83	79	76	82	78	76	81	78	75	74			
8	89	81	77	74	88	81	77	73	80	76	73	79	76	73	78	75	73	72			
9	86	79	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69			
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67			

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Unified Glare Rating Table

Lum. Name: 148-162_190_191	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: 2022/07/04

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	16.9	17.8	17.3	18.1	18.5	14.7	15.7	15.1	16.0	16.3
Y=3H	16.7	17.5	17.1	17.8	18.2	14.5	15.3	14.9	15.7	16.1
Y=4H	16.6	17.3	17.0	17.7	18.1	14.4	15.2	14.8	15.5	15.9
Y=6H	16.5	17.2	16.9	17.5	17.9	14.3	15.0	14.7	15.4	15.8
Y=8H	16.4	17.1	16.8	17.4	17.9	14.2	14.9	14.7	15.3	15.7
Y=12H	16.3	17.0	16.8	17.3	17.8	14.2	14.8	14.6	15.2	15.6
X=4H Y=2H	16.6	17.3	17.0	17.7	18.1	14.4	15.2	14.8	15.5	15.9
Y=3H	16.4	17.0	16.8	17.4	17.8	14.2	14.8	14.6	15.2	15.6
Y=4H	16.2	16.8	16.7	17.2	17.7	14.1	14.6	14.5	15.0	15.5
Y=6H	16.1	16.6	16.6	17.0	17.5	13.9	14.4	14.4	14.9	15.3
Y=8H	16.0	16.5	16.5	16.9	17.4	13.9	14.3	14.3	14.8	15.2
Y=12H	16.0	16.3	16.5	16.8	17.3	13.8	14.2	14.3	14.7	15.2
X=8H Y=4H	16.0	16.5	16.5	16.9	17.4	13.9	14.3	14.3	14.8	15.2
Y=6H	15.9	16.3	16.4	16.8	17.3	13.7	14.1	14.3	14.6	15.1
Y=8H	15.8	16.1	16.4	16.7	17.2	13.7	14.0	14.2	14.5	15.0
Y=12H	15.8	16.0	16.3	16.5	17.1	13.6	13.9	14.1	14.4	15.0
X=12H Y=4H	16.0	16.3	16.5	16.8	17.3	13.8	14.2	14.3	14.7	15.2
Y=6H	15.8	16.1	16.4	16.6	17.2	13.7	14.0	14.2	14.5	15.0
Y=8H	15.8	16.0	16.3	16.5	17.1	13.6	13.9	14.1	14.4	15.0
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	0.0					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	1436.12	1415.38	1401.98	1392.59	1384.12	1382.42	1436.12	1415.38	1401.98	1392.59	1384.12	1382.42
γ 1.0	1432.78	1410.07	1390.47	1377.87	1364.96	1363.85	1431.54	1413.09	1405.21	1399.65	1395.85	1394.41
γ 2.0	1421.68	1396.94	1370.53	1354.03	1337.78	1337.80	1419.54	1404.53	1401.30	1398.77	1398.74	1397.99
γ 3.0	1402.96	1375.20	1343.74	1321.96	1300.86	1301.41	1401.52	1388.53	1390.81	1389.58	1393.14	1393.81
γ 4.0	1374.92	1345.21	1307.43	1282.47	1257.32	1258.75	1373.54	1363.75	1370.11	1371.75	1381.00	1381.81
γ 5.0	1338.10	1308.37	1264.39	1235.71	1208.23	1211.22	1337.45	1330.91	1341.42	1347.06	1358.45	1360.10
γ 6.0	1294.55	1263.20	1215.63	1183.44	1154.49	1158.18	1293.12	1289.14	1303.96	1311.58	1327.01	1330.24
γ 7.0	1243.16	1213.88	1160.40	1127.10	1094.11	1098.04	1243.53	1240.58	1259.69	1267.08	1287.00	1291.63
γ 8.0	1185.49	1157.80	1099.91	1064.54	1029.31	1033.84	1186.90	1186.31	1209.22	1213.94	1239.13	1246.57
γ 9.0	1123.73	1096.31	1036.44	997.98	964.34	966.45	1125.12	1123.11	1153.43	1153.96	1187.42	1194.87
γ 10.0	1059.62	1030.77	970.70	931.34	895.89	897.58	1059.43	1053.42	1091.93	1093.94	1131.56	1133.34
γ 11.0	993.35	963.40	904.18	864.88	826.97	828.45	990.23	984.87	1025.46	1029.58	1067.80	1066.36
γ 12.0	923.72	894.55	837.57	798.33	758.76	759.45	918.60	916.22	954.62	960.67	1000.43	1002.23
γ 13.0	853.81	825.56	768.75	731.34	689.79	691.45	849.90	845.79	887.39	890.49	935.04	936.19
γ 14.0	783.12	756.03	699.67	664.89	625.04	625.77	780.97	776.28	817.00	819.53	866.94	868.07
γ 15.0	713.43	686.60	632.50	598.58	560.85	560.71	711.51	707.23	747.04	750.97	798.39	800.31
γ 16.0	645.60	618.78	567.75	533.06	499.01	498.02	641.48	638.21	677.02	683.00	730.43	730.77
γ 17.0	580.63	554.25	506.13	471.58	441.52	439.52	572.25	570.36	607.21	616.28	660.90	661.28
γ 18.0	518.12	492.99	447.98	413.54	386.18	382.58	506.74	506.11	540.59	553.03	594.58	596.09
γ 19.0	459.61	436.04	394.58	360.86	334.36	330.02	448.41	445.63	481.26	492.45	534.68	534.42
γ 20.0	404.83	383.89	346.58	313.91	287.78	283.06	392.25	389.39	424.89	435.36	475.91	476.76
γ 21.0	357.50	337.20	305.72	272.59	250.69	245.56	340.71	340.26	371.22	381.30	420.67	421.48
γ 22.0	315.55	297.42	270.02	238.59	221.33	215.67	296.56	297.12	322.84	332.24	369.59	371.49
γ 23.0	278.31	263.08	238.99	209.69	196.61	190.04	258.34	261.81	281.05	290.71	322.59	326.47
γ 24.0	244.66	231.90	212.68	185.90	174.88	169.26	225.12	232.04	246.30	256.73	282.30	287.07
γ 25.0	215.08	204.62	189.64	165.51	156.50	150.88	199.11	206.41	220.04	227.23	249.51	252.53
γ 26.0	190.36	181.46	169.89	148.64	140.88	135.01	176.75	184.52	197.01	202.40	220.15	222.90
γ 27.0	169.59	161.75	153.18	133.20	127.13	121.46	158.36	165.56	177.21	180.85	195.25	197.19
γ 28.0	150.68	145.32	137.97	120.22	114.07	107.97	142.40	149.27	160.54	162.78	173.78	174.95
γ 29.0	135.15	130.53	123.47	107.71	97.41	92.61	127.85	135.53	145.67	147.45	154.93	156.08
γ 30.0	119.10	114.77	103.54	89.35	78.21	74.39	113.29	122.21	132.80	134.77	139.39	140.65
γ 31.0	99.25	95.03	84.04	71.49	63.58	60.09	97.85	106.61	119.26	122.28	126.39	126.22
γ 32.0	79.24	76.90	70.60	59.88	54.10	51.58	79.16	87.88	101.74	106.17	112.12	111.15
γ 33.0	67.31	65.32	60.21	51.53	47.49	45.34	63.77	71.65	81.41	86.53	94.35	92.82
γ 34.0	58.60	56.29	52.22	44.97	41.71	39.79	54.87	61.66	66.09	70.11	75.00	74.78
γ 35.0	51.22	48.86	45.58	39.18	36.55	35.07	48.01	53.76	56.00	59.90	61.18	63.54
γ 36.0	44.49	42.41	39.71	34.20	32.04	30.52	41.78	47.08	48.38	52.03	52.52	55.31
γ 37.0	38.75	36.88	34.59	29.59	28.13	26.47	36.79	41.13	42.43	45.38	46.41	48.77
γ 38.0	33.76	32.03	30.02	25.79	24.89	23.00	32.09	36.05	36.77	39.62	40.42	42.78
γ 39.0	29.37	27.74	26.15	22.17	21.78	20.27	28.12	31.40	31.52	34.55	34.90	37.35
γ 40.0	25.70	23.91	22.82	19.40	19.47	17.86	24.64	27.52	27.24	29.89	30.09	32.38
γ 41.0	22.42	20.63	19.92	16.91	17.25	15.58	21.39	24.20	23.28	26.01	25.72	28.08
γ 42.0	19.78	17.89	17.59	14.60	15.24	13.84	19.04	20.96	20.16	22.67	21.96	24.31
γ 43.0	17.45	15.56	15.40	12.84	13.63	12.39	16.88	18.58	17.77	19.94	19.35	21.22
γ 44.0	15.27	13.36	13.28	11.14	12.07	10.71	14.85	16.35	15.40	17.50	16.71	18.52
γ 45.0	13.21	11.37	11.65	9.70	10.66	9.32	13.05	14.27	13.33	15.14	14.55	16.06
γ 46.0	11.51	9.77	10.08	8.30	9.13	7.86	11.36	12.33	11.40	13.07	12.37	13.98

