

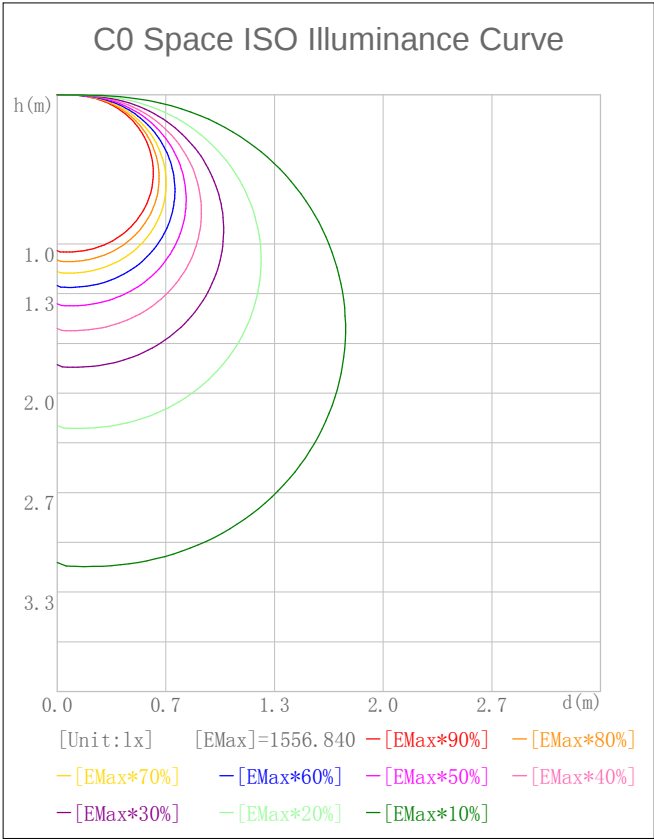
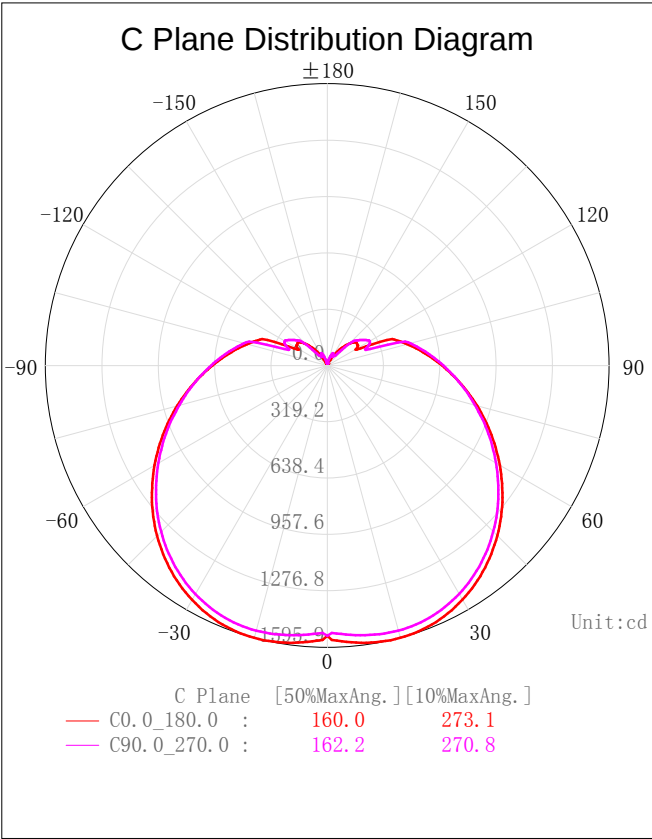
Indoor Luminaire Photometric Data

Description Information

Luminary Name: MACROLED 90W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED	Test Date: 2020/11/05
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.130m*0.130m*0.000m	Lum. Area(m2):0.013	Lum. W(kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp. (°C): 25
		Humidity(%): 50.0

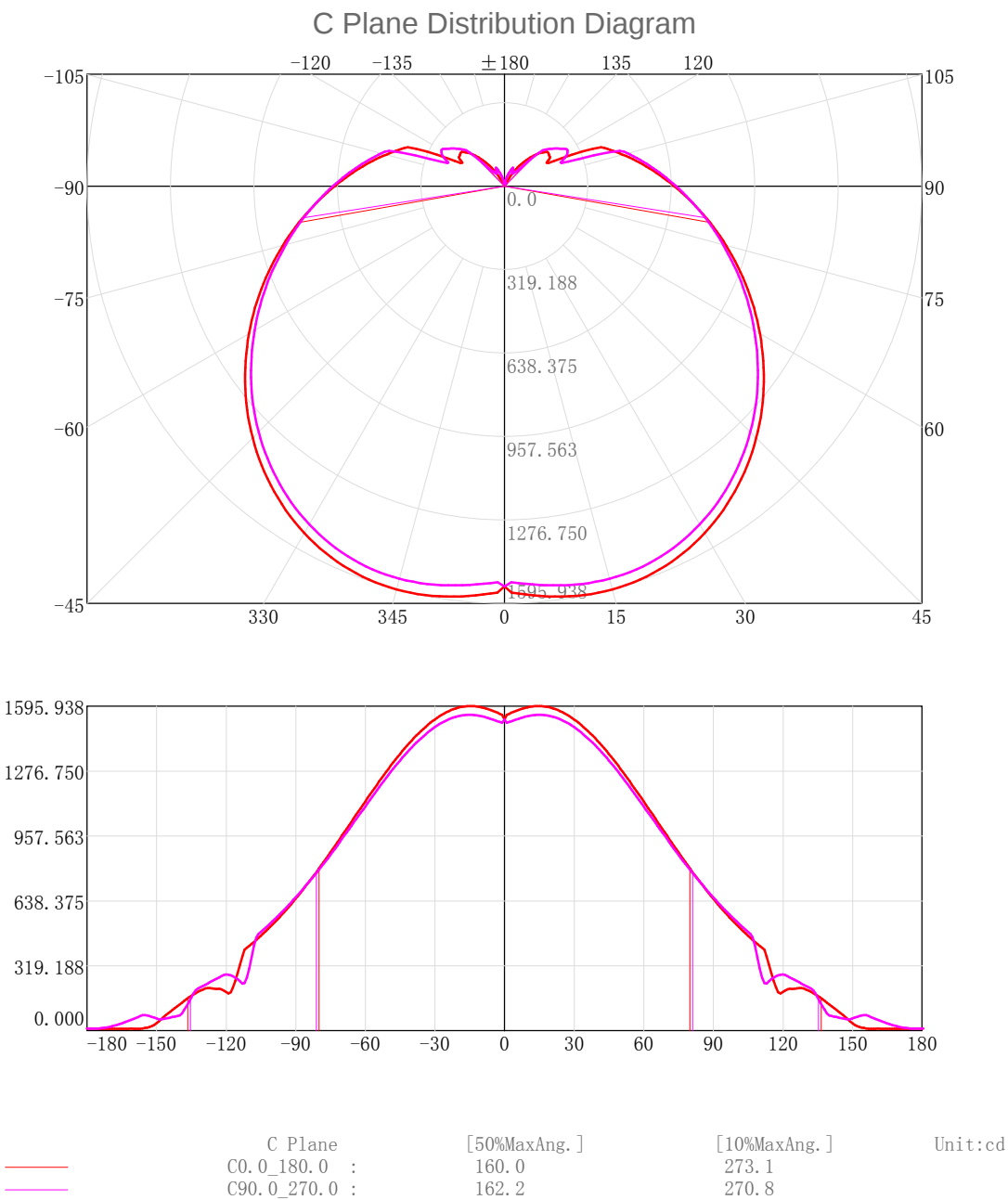
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 9136.290	Luminary Flux(lm): 9136.295	Field Angle(10%Imax): 273.1(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 7095.477lm 77.66%
Rated Voltage(V):	Luminary EER(lm/W): 112.794	Up Lumens&Percent: 2040.818lm 22.34%
Tested Power(W): 81.000	Max. Candela(cd): 1595.938	S/MH: C0_a180=1.476 C90_270=1.447
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=15.0	CIE Type: General Diffuse
Tested Electrics(V, A, pf):230.0, 0.358, 0.984	Beam Angle(50%Imax): 160.0(°)	ErP Φuse(120°): 4346.121lm
Lamp Size(W*L*H):0.130m*0.130m*0.000m	Left=-80.0°, Right=80.0°	IRF(%): 87.715



2D Plane Light Intensity Distribution Curve

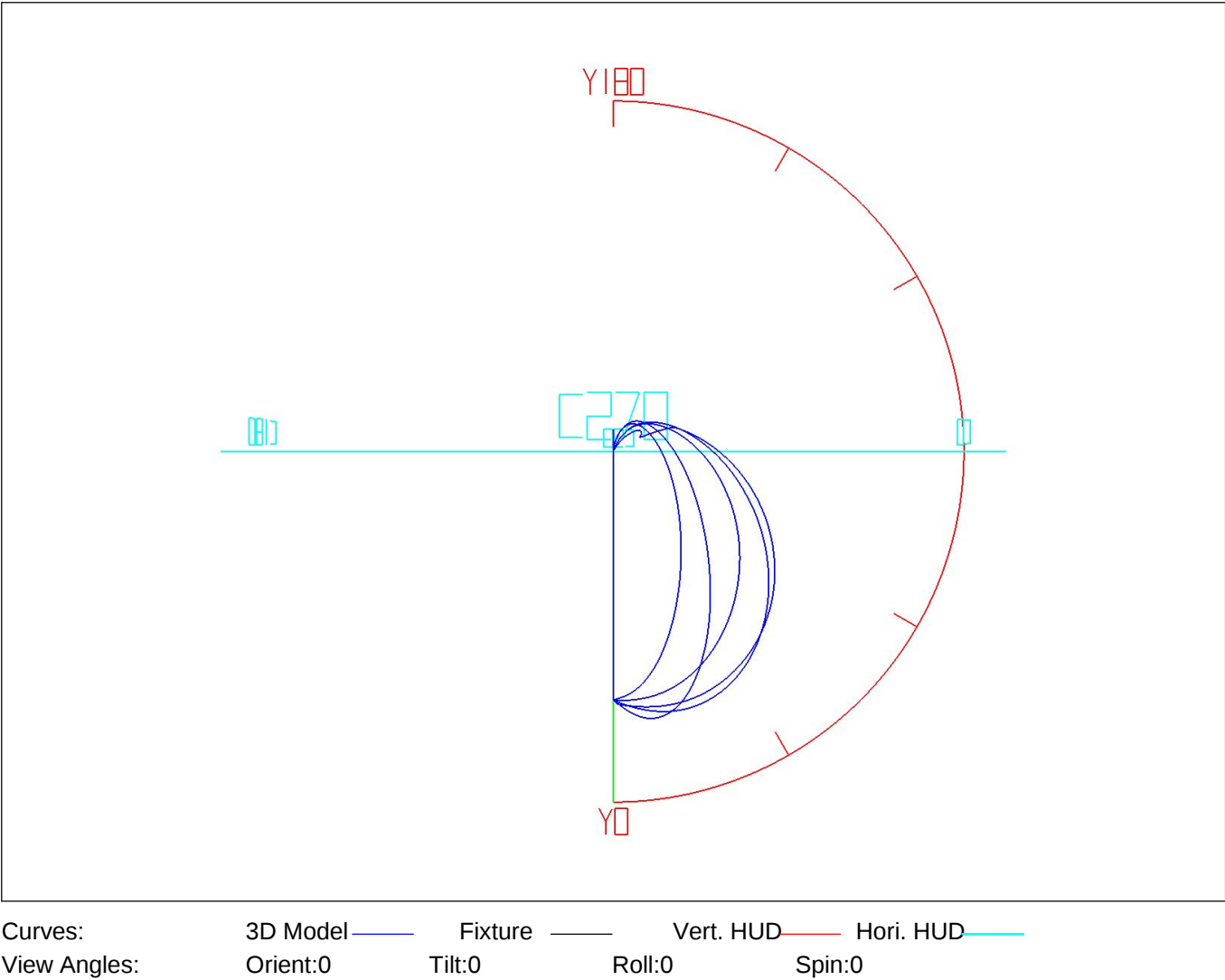
Lum. Name: MACROLED 90W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/11/05



3D Light Intensity Distribution Modal

Lum. Name:MACROLED 90W	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/11/05

3D Light Intensity Distribution Modal



IES Indoor Report

Photometric Filename:MACROLED 90W.IES

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	1.47	1.47	0.02	0.02	44.0-45.0	104.17	2741.16	1.14	30.00
1.0-2.0	4.41	5.87	0.05	0.06	45.0-46.0	104.94	2846.09	1.15	31.15
2.0-3.0	7.36	13.24	0.08	0.14	46.0-47.0	105.61	2951.71	1.16	32.31
3.0-4.0	10.34	23.57	0.11	0.26	47.0-48.0	106.19	3057.89	1.16	33.47
4.0-5.0	13.32	36.90	0.15	0.40	48.0-49.0	106.68	3164.58	1.17	34.64
5.0-6.0	16.32	53.22	0.18	0.58	49.0-50.0	107.09	3271.66	1.17	35.81
6.0-7.0	19.33	72.55	0.21	0.79	50.0-51.0	107.40	3379.07	1.18	36.99
7.0-8.0	22.34	94.90	0.24	1.04	51.0-52.0	107.64	3486.70	1.18	38.16
8.0-9.0	25.36	120.25	0.28	1.32	52.0-53.0	107.77	3594.48	1.18	39.34
9.0-10.0	28.37	148.62	0.31	1.63	53.0-54.0	107.83	3702.31	1.18	40.52
10.0-11.0	31.38	180.00	0.34	1.97	54.0-55.0	107.81	3810.12	1.18	41.70
11.0-12.0	34.37	214.38	0.38	2.35	55.0-56.0	107.70	3917.82	1.18	42.88
12.0-13.0	37.36	251.73	0.41	2.76	56.0-57.0	107.53	4025.35	1.18	44.06
13.0-14.0	40.32	292.05	0.44	3.20	57.0-58.0	107.28	4132.63	1.17	45.23
14.0-15.0	43.26	335.32	0.47	3.67	58.0-59.0	106.94	4239.57	1.17	46.40
15.0-16.0	46.18	381.49	0.51	4.18	59.0-60.0	106.55	4346.12	1.17	47.57
16.0-17.0	49.06	430.55	0.54	4.71	60.0-61.0	106.07	4452.19	1.16	48.73
17.0-18.0	51.91	482.46	0.57	5.28	61.0-62.0	105.54	4557.73	1.16	49.89
18.0-19.0	54.72	537.17	0.60	5.88	62.0-63.0	104.95	4662.68	1.15	51.03
19.0-20.0	57.48	594.65	0.63	6.51	63.0-64.0	104.28	4766.97	1.14	52.18
20.0-21.0	60.20	654.85	0.66	7.17	64.0-65.0	103.57	4870.54	1.13	53.31
21.0-22.0	62.87	717.72	0.69	7.86	65.0-66.0	102.78	4973.32	1.12	54.43
22.0-23.0	65.48	783.20	0.72	8.57	66.0-67.0	101.94	5075.26	1.12	55.55
23.0-24.0	68.03	851.23	0.74	9.32	67.0-68.0	101.06	5176.32	1.11	56.66
24.0-25.0	70.53	921.76	0.77	10.09	68.0-69.0	100.12	5276.43	1.10	57.75
25.0-26.0	72.96	994.72	0.80	10.89	69.0-70.0	99.12	5375.56	1.08	58.84
26.0-27.0	75.32	1070.04	0.82	11.71	70.0-71.0	98.05	5473.61	1.07	59.91
27.0-28.0	77.62	1147.66	0.85	12.56	71.0-72.0	96.92	5570.53	1.06	60.97
28.0-29.0	79.84	1227.50	0.87	13.44	72.0-73.0	95.77	5666.29	1.05	62.02
29.0-30.0	81.99	1309.48	0.90	14.33	73.0-74.0	94.60	5760.89	1.04	63.05
30.0-31.0	84.06	1393.55	0.92	15.25	74.0-75.0	93.40	5854.29	1.02	64.08
31.0-32.0	86.05	1479.60	0.94	16.19	75.0-76.0	92.19	5946.47	1.01	65.09
32.0-33.0	87.97	1567.57	0.96	17.16	76.0-77.0	90.92	6037.40	1.00	66.08
33.0-34.0	89.80	1657.37	0.98	18.14	77.0-78.0	89.63	6127.03	0.98	67.06
34.0-35.0	91.54	1748.91	1.00	19.14	78.0-79.0	88.33	6215.36	0.97	68.03
35.0-36.0	93.20	1842.11	1.02	20.16	79.0-80.0	87.01	6302.37	0.95	68.98
36.0-37.0	94.78	1936.88	1.04	21.20	80.0-81.0	85.67	6388.04	0.94	69.92
37.0-38.0	96.26	2033.15	1.05	22.25	81.0-82.0	84.29	6472.32	0.92	70.84
38.0-39.0	97.67	2130.82	1.07	23.32	82.0-83.0	82.89	6555.21	0.91	71.75
39.0-40.0	98.98	2229.79	1.08	24.41	83.0-84.0	81.48	6636.70	0.89	72.64
40.0-41.0	100.20	2329.99	1.10	25.50	84.0-85.0	80.06	6716.75	0.88	73.52
41.0-42.0	101.33	2431.32	1.11	26.61	85.0-86.0	78.62	6795.37	0.86	74.38
42.0-43.0	102.36	2533.68	1.12	27.73	86.0-87.0	77.19	6872.57	0.84	75.22
43.0-44.0	103.31	2636.99	1.13	28.86	87.0-88.0	75.76	6948.33	0.83	76.05

Zonal Flux Tabulation - (Cont.)

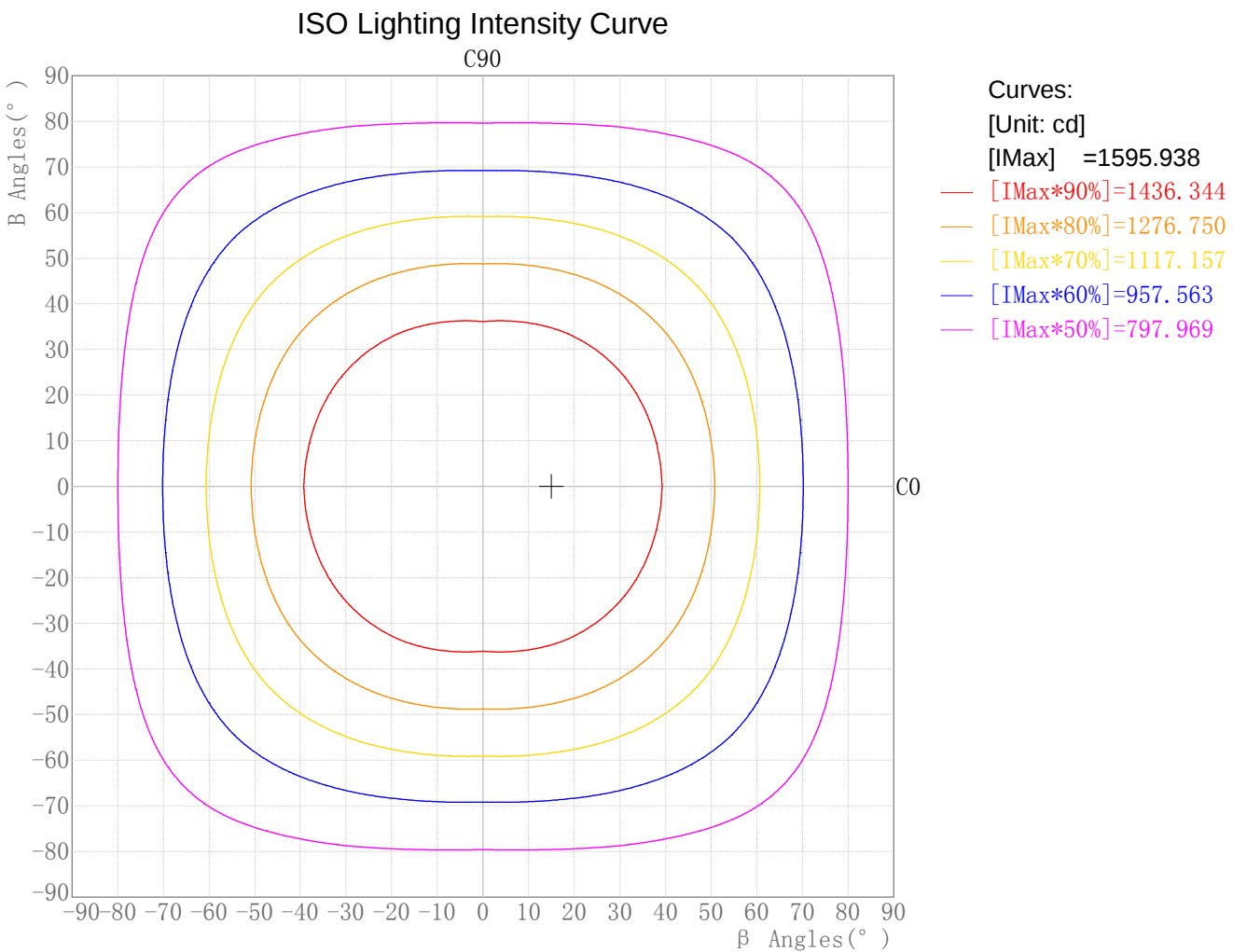
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
88.0-89.0	74.31	7022.63	0.81	76.87	132.0-133.0	18.76	8915.02	0.21	97.58
89.0-90.0	72.84	7095.48	0.80	77.66	133.0-134.0	17.80	8932.82	0.19	97.77
90.0-91.0	71.38	7166.86	0.78	78.44	134.0-135.0	16.78	8949.60	0.18	97.96
91.0-92.0	69.94	7236.80	0.77	79.21	135.0-136.0	15.72	8965.32	0.17	98.13
92.0-93.0	68.49	7305.29	0.75	79.96	136.0-137.0	14.67	8979.99	0.16	98.29
93.0-94.0	67.03	7372.32	0.73	80.69	137.0-138.0	13.66	8993.65	0.15	98.44
94.0-95.0	65.59	7437.91	0.72	81.41	138.0-139.0	12.69	9006.34	0.14	98.58
95.0-96.0	64.16	7502.07	0.70	82.11	139.0-140.0	11.79	9018.13	0.13	98.71
96.0-97.0	62.74	7564.81	0.69	82.80	140.0-141.0	10.97	9029.11	0.12	98.83
97.0-98.0	61.32	7626.13	0.67	83.47	141.0-142.0	10.22	9039.33	0.11	98.94
98.0-99.0	59.92	7686.04	0.66	84.13	142.0-143.0	9.50	9048.82	0.10	99.04
99.0-100.0	58.53	7744.58	0.64	84.77	143.0-144.0	8.79	9057.61	0.10	99.14
100.0-101.0	57.14	7801.72	0.63	85.39	144.0-145.0	8.10	9065.71	0.09	99.23
101.0-102.0	55.76	7857.48	0.61	86.00	145.0-146.0	7.44	9073.15	0.08	99.31
102.0-103.0	54.40	7911.88	0.60	86.60	146.0-147.0	6.80	9079.95	0.07	99.38
103.0-104.0	53.06	7964.94	0.58	87.18	147.0-148.0	6.19	9086.14	0.07	99.45
104.0-105.0	51.70	8016.65	0.57	87.75	148.0-149.0	5.61	9091.75	0.06	99.51
105.0-106.0	50.35	8067.00	0.55	88.30	149.0-150.0	5.08	9096.82	0.06	99.57
106.0-107.0	48.99	8115.99	0.54	88.83	150.0-151.0	4.59	9101.41	0.05	99.62
107.0-108.0	47.38	8163.36	0.52	89.35	151.0-152.0	4.13	9105.54	0.05	99.66
108.0-109.0	45.41	8208.78	0.50	89.85	152.0-153.0	3.72	9109.26	0.04	99.70
109.0-110.0	43.35	8252.13	0.47	90.32	153.0-154.0	3.36	9112.62	0.04	99.74
110.0-111.0	41.43	8293.56	0.45	90.78	154.0-155.0	3.04	9115.67	0.03	99.77
111.0-112.0	39.76	8333.32	0.44	91.21	155.0-156.0	2.74	9118.41	0.03	99.80
112.0-113.0	38.27	8371.59	0.42	91.63	156.0-157.0	2.46	9120.87	0.03	99.83
113.0-114.0	36.86	8408.45	0.40	92.03	157.0-158.0	2.20	9123.06	0.02	99.86
114.0-115.0	35.49	8443.93	0.39	92.42	158.0-159.0	1.95	9125.02	0.02	99.88
115.0-116.0	34.12	8478.05	0.37	92.80	159.0-160.0	1.73	9126.75	0.02	99.90
116.0-117.0	32.80	8510.85	0.36	93.15	160.0-161.0	1.52	9128.27	0.02	99.91
117.0-118.0	31.60	8542.45	0.35	93.50	161.0-162.0	1.33	9129.60	0.01	99.93
118.0-119.0	30.59	8573.04	0.33	93.84	162.0-163.0	1.15	9130.76	0.01	99.94
119.0-120.0	29.82	8602.86	0.33	94.16	163.0-164.0	0.99	9131.74	0.01	99.95
120.0-121.0	29.11	8631.96	0.32	94.48	164.0-165.0	0.84	9132.58	0.01	99.96
121.0-122.0	28.34	8660.30	0.31	94.79	165.0-166.0	0.70	9133.28	0.01	99.97
122.0-123.0	27.50	8687.80	0.30	95.09	166.0-167.0	0.59	9133.87	0.01	99.97
123.0-124.0	26.62	8714.42	0.29	95.38	167.0-168.0	0.49	9134.36	0.01	99.98
124.0-125.0	25.73	8740.15	0.28	95.66	168.0-169.0	0.40	9134.75	0.00	99.98
125.0-126.0	24.88	8765.03	0.27	95.94	169.0-170.0	0.33	9135.08	0.00	99.99
126.0-127.0	24.03	8789.07	0.26	96.20	170.0-171.0	0.27	9135.35	0.00	99.99
127.0-128.0	23.19	8812.26	0.25	96.45	171.0-172.0	0.22	9135.57	0.00	99.99
128.0-129.0	22.34	8834.59	0.24	96.70	172.0-173.0	0.18	9135.76	0.00	99.99
129.0-130.0	21.45	8856.05	0.23	96.93	173.0-174.0	0.15	9135.90	0.00	100.00
130.0-131.0	20.55	8876.60	0.22	97.16	174.0-175.0	0.12	9136.02	0.00	100.00
131.0-132.0	19.66	8896.26	0.22	97.37	175.0-176.0	0.10	9136.12	0.00	100.00

Zonal Flux Tabulation - (Cont.)

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
176.0-177.0	0.08	9136.19	0.00	100.00
177.0-178.0	0.05	9136.25	0.00	100.00
178.0-179.0	0.03	9136.28	0.00	100.00
179.0-180.0	0.01	9136.29	0.00	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: MACROLED 90W	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/11/05

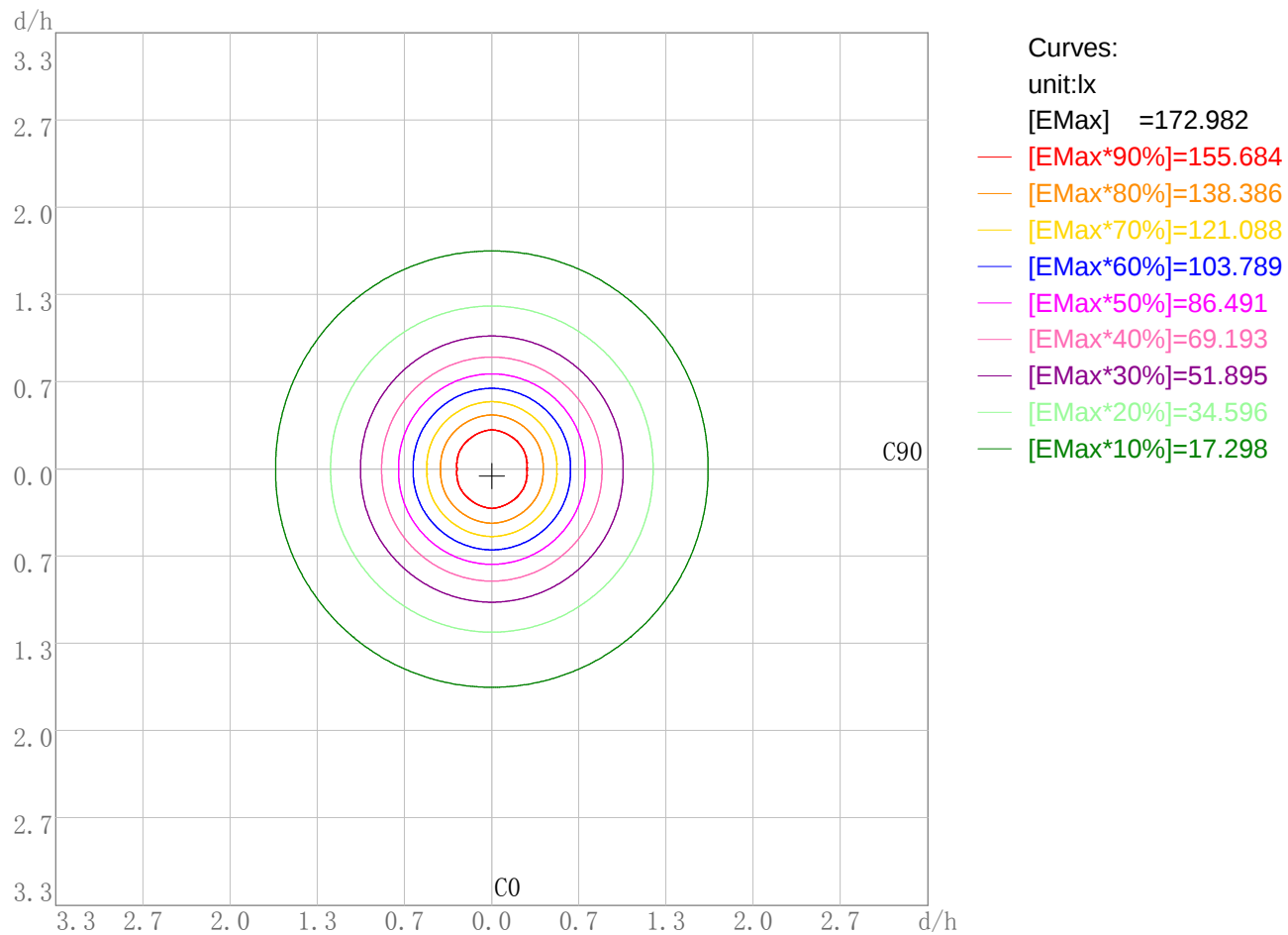


Maximum Light Intensity(cd): 1595.94
Maximum Cand.@Angle: H=15.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: MACROLED 90W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/11/05

Plane ISO-Illuminance Curve

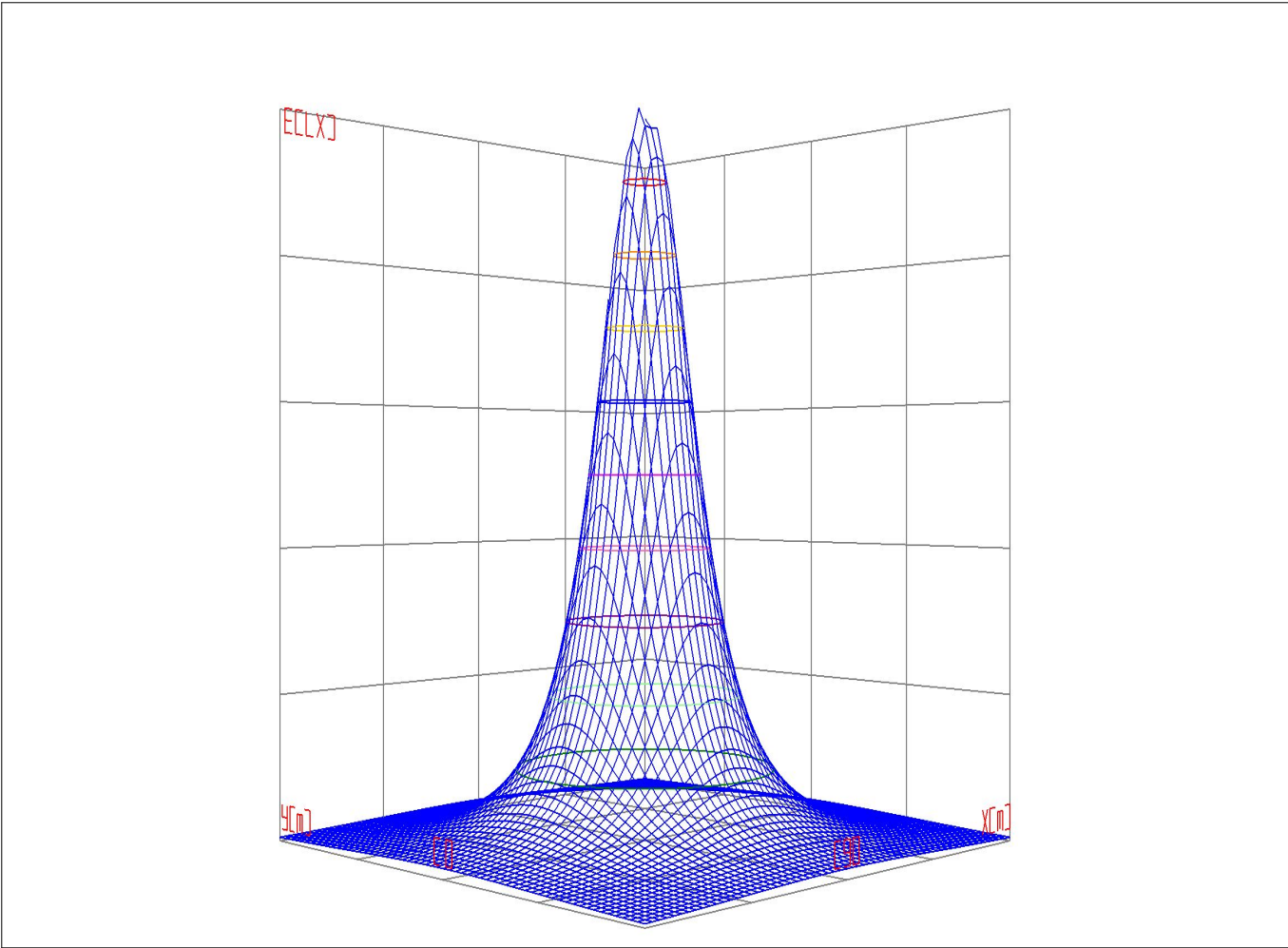


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 172.98
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.1

3D Plane ISO Illuminance Diagram

Lum. Name: MACROLED 90W	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/11/05

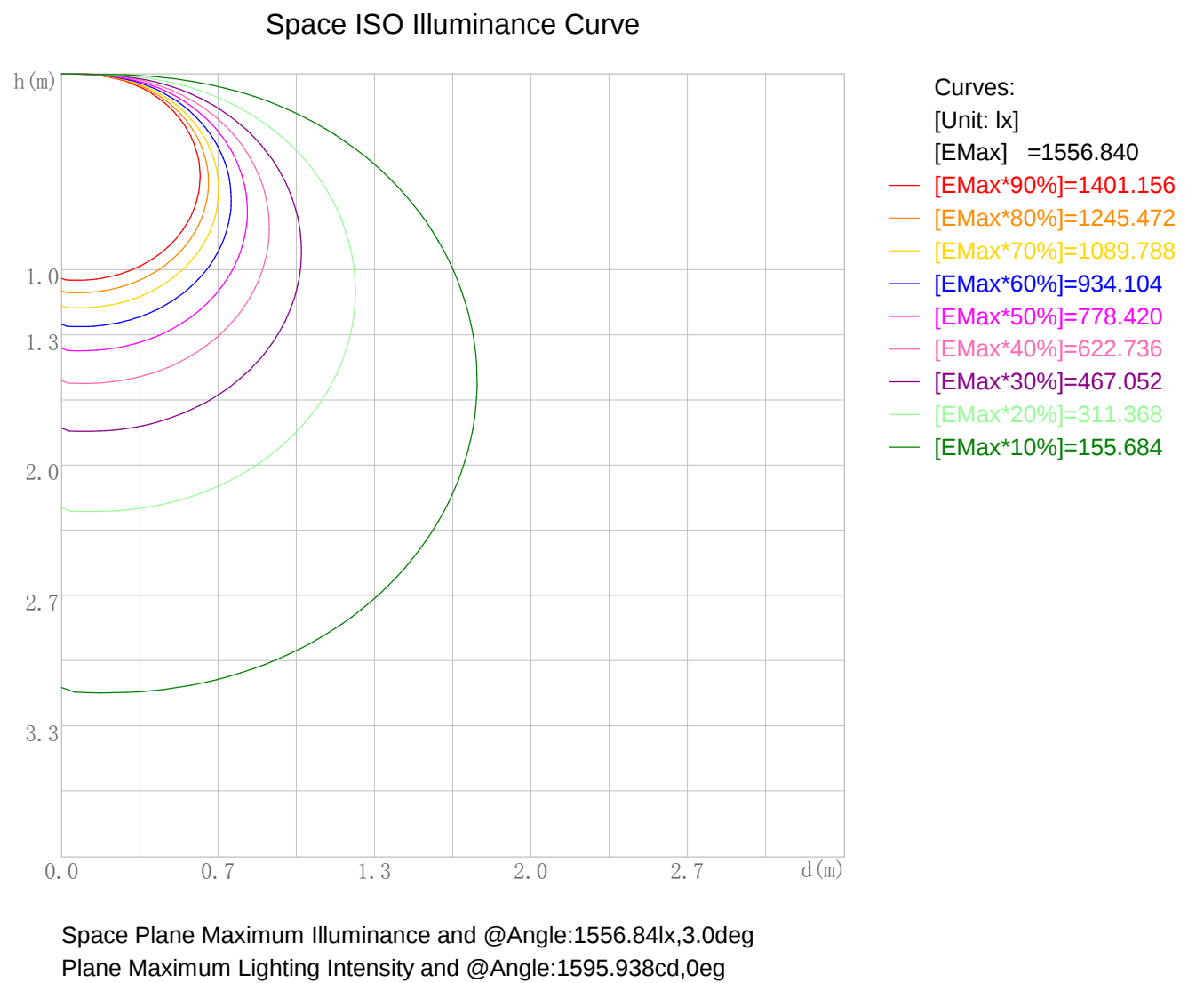
3D Plane Illuminance Modal



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

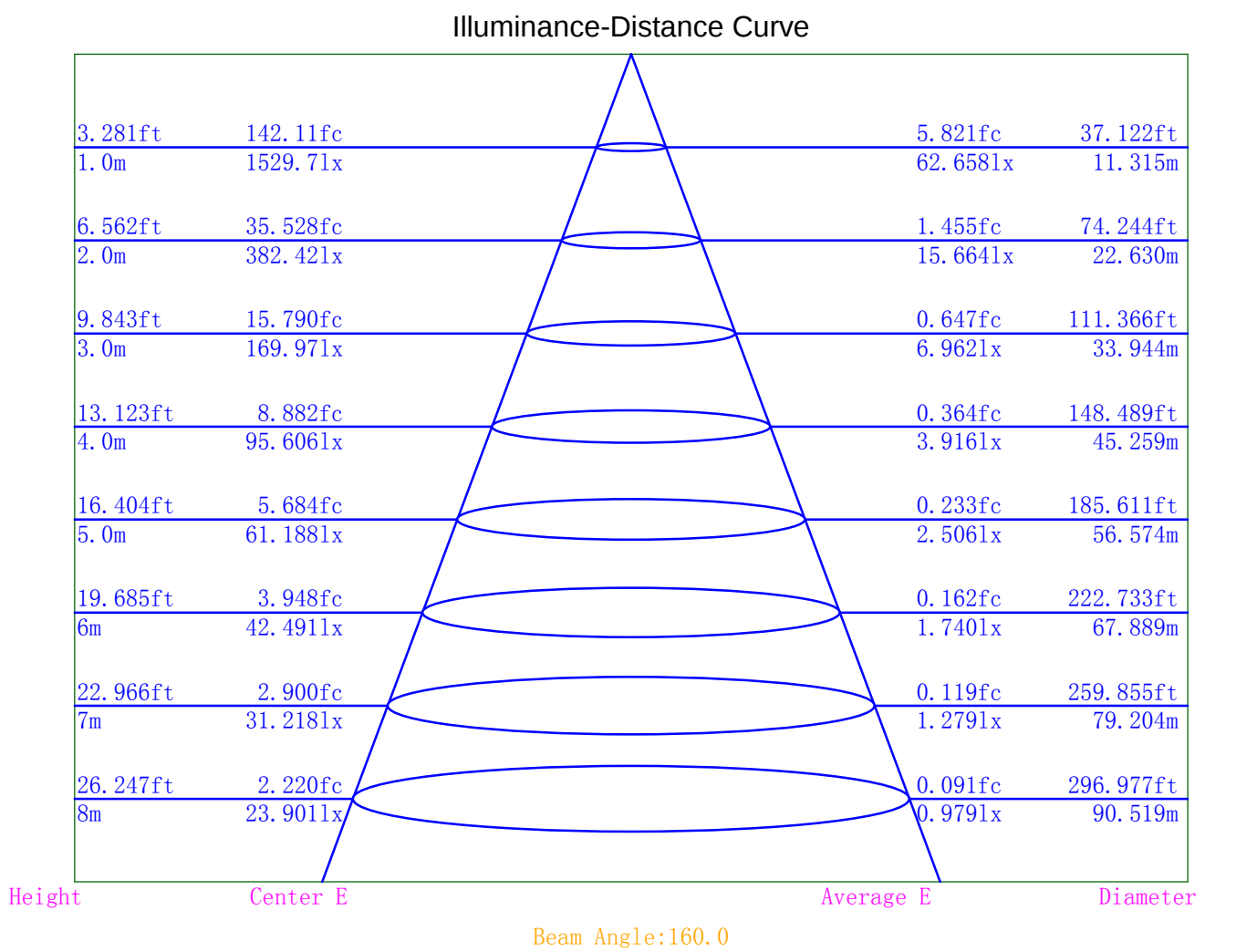
Space ISO Illuminance Diagram

Lum. Name:MACROLED 90W	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/11/05



Illuminance-Distance Diagram

Lum. Name: MACROLED 90W	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/11/05



Indoor Luminance Limiting Curves

Lum. Name: MACROLED 90W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/11/05

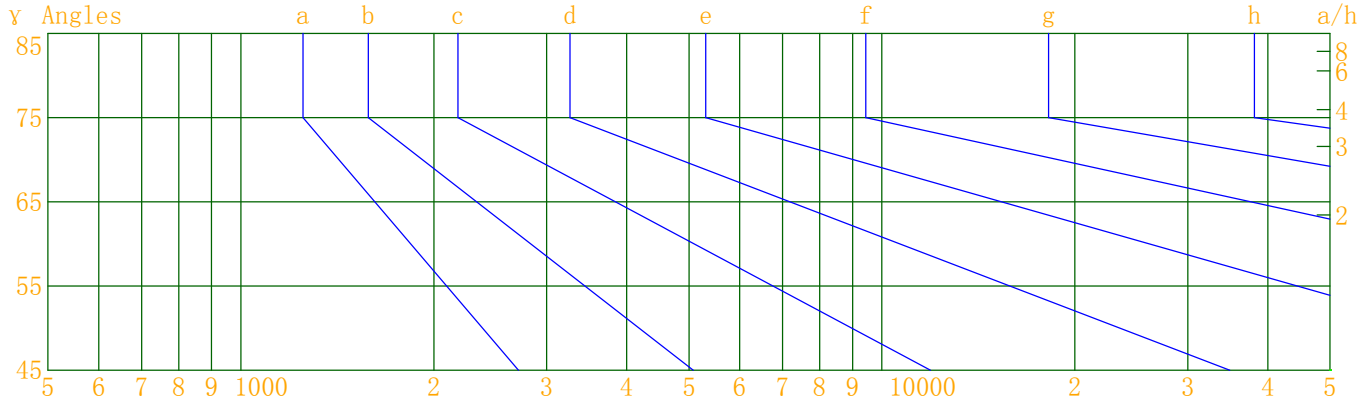
Glare Grade Table

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	145043	150997	158851	169911	186152	211534	255506	346049	623038
C90	141626	147493	155273	166214	182463	208087	251822	343610	624170

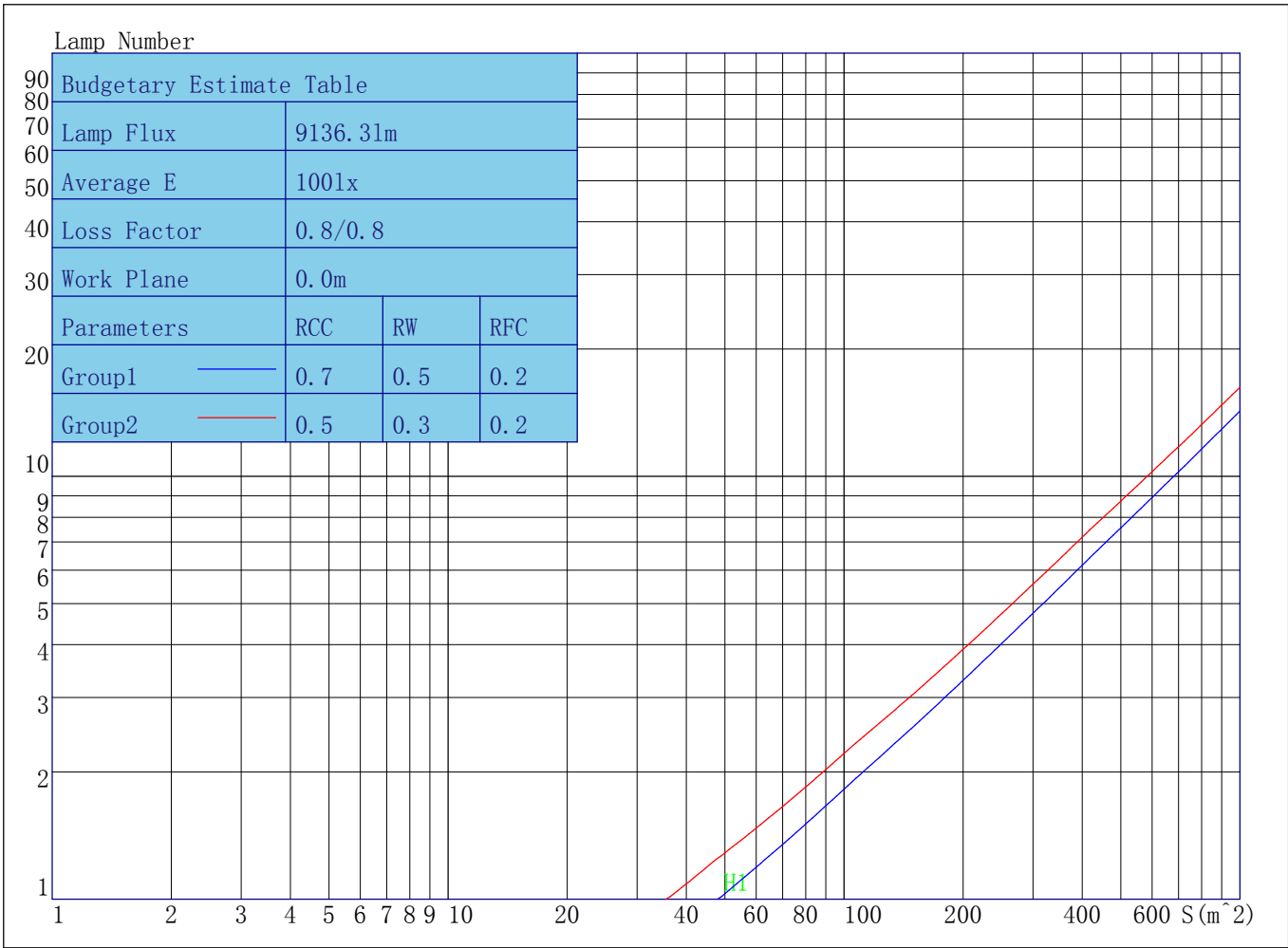
Luminance Limiting Curve



Luminous Size: Length(m)=-0.130 Width(m)=-0.130 Height(m)=0.000 Area(m^2)=0.013273
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name: MACROLED 90W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/11/05



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: MACROLED 90W	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/11/05

Coefficients of Utilization - Zonal Cavity Method																	
Coef.	Effective Floor Cavity Reflectance RFC=0.20																
RhoCC (%)	80				70				50			30			10		
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR	Coefficient of Utilization(%)																
0	114	114	114	114	108	108	108	108	99	99	99	90	90	90	82	82	82
1	100	94	88	83	95	89	84	80	81	77	73	73	70	67	66	63	61
2	89	80	72	65	85	76	68	62	68	62	57	62	57	53	56	52	48
3	81	69	60	52	76	65	57	50	59	52	46	53	48	43	48	43	39
4	73	60	51	43	69	57	48	42	52	45	39	47	41	36	42	37	33
5	67	53	44	36	63	51	42	35	46	39	33	42	35	30	38	32	28
6	62	48	38	31	58	45	37	30	41	34	28	37	31	26	34	28	24
7	57	43	34	27	54	41	32	26	37	30	25	34	28	23	31	25	21
8	53	39	30	24	50	37	29	23	34	27	22	31	25	20	28	23	19
9	49	35	27	21	47	34	26	21	31	24	19	28	22	18	26	21	17
10	46	32	24	19	44	31	24	18	29	22	17	26	20	16	24	19	15

Unified Glare Rating Table

Lum. Name: MACROLED 90W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/11/05

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	28.3	29.6	29.0	30.3	31.1	28.2	29.5	28.9	30.2	31.0
	Y=3H	30.9	32.1	31.6	32.8	33.7	30.8	32.1	31.5	32.8	33.6
	Y=4H	32.4	33.5	33.0	34.2	35.1	32.3	33.4	33.0	34.1	35.0
	Y=6H	33.9	35.0	34.6	35.7	36.6	33.9	34.9	34.6	35.7	36.5
	Y=8H	34.8	35.8	35.5	36.6	37.5	34.7	35.8	35.4	36.5	37.4
	Y=12H	35.8	36.8	36.5	37.5	38.4	35.8	36.8	36.5	37.5	38.4
X=4H	Y=2H	29.3	30.5	30.0	31.2	32.0	29.2	30.4	29.9	31.1	32.0
	Y=3H	32.1	33.2	32.8	33.9	34.8	32.1	33.1	32.8	33.8	34.7
	Y=4H	33.7	34.7	34.5	35.4	36.3	33.7	34.6	34.4	35.3	36.2
	Y=6H	35.5	36.3	36.2	37.1	38.0	35.4	36.3	36.2	37.0	37.9
	Y=8H	36.5	37.3	37.2	38.0	38.9	36.4	37.2	37.2	38.0	38.9
	Y=12H	37.6	38.3	38.3	39.1	40.0	37.6	38.3	38.3	39.1	40.0
X=8H	Y=4H	34.4	35.2	35.2	36.0	36.9	34.4	35.2	35.1	35.9	36.8
	Y=6H	36.5	37.1	37.2	37.9	39.0	36.4	37.1	37.2	37.9	39.0
	Y=8H	37.6	38.2	38.4	39.0	40.0	37.6	38.2	38.4	39.0	39.9
	Y=12H	39.0	39.5	39.7	40.3	41.3	38.9	39.5	39.7	40.3	41.3
X=12H	Y=4H	34.6	35.3	35.4	36.1	37.0	34.6	35.3	35.3	36.1	37.0
	Y=6H	36.8	37.4	37.5	38.2	39.1	36.7	37.3	37.5	38.1	39.1
	Y=8H	38.0	38.6	38.8	39.4	40.4	38.0	38.5	38.8	39.3	40.3
Variations with the objerver position at spacings											
S=1.0H		0.0/-0.0					0.1/-0.1				
S=1.5H		0.1/-0.1					0.1/-0.1				
S=2.0H		0.1/-0.2					0.1/-0.2				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		6.0					6.1				

ie CIE Pub.117,data has been corrected,refers to the lamp's lumens 8.2flm.

IES Indoor Report
Photometric Filename:MACROLED 90W.IES

Candela Tabulation

V/H	C0.0	C30.0	C60.0	C90.0
Υ 0.0	1529.69	1529.69	1529.69	1529.69
Υ 1.0	1553.91	1534.86	1530.20	1514.57
Υ 2.0	1558.62	1539.59	1534.36	1517.94
Υ 3.0	1563.26	1544.49	1538.64	1521.70
Υ 4.0	1567.83	1549.29	1543.37	1525.70
Υ 5.0	1572.49	1553.95	1547.68	1529.79
Υ 6.0	1576.77	1558.41	1551.76	1533.80
Υ 7.0	1580.71	1562.56	1555.65	1537.42
Υ 8.0	1584.19	1566.42	1559.22	1540.92
Υ 9.0	1587.44	1569.91	1562.47	1544.12
Υ 10.0	1590.24	1572.89	1565.51	1546.79
Υ 11.0	1592.44	1575.45	1567.84	1549.01
Υ 12.0	1594.03	1577.45	1569.73	1551.02
Υ 13.0	1595.21	1578.97	1571.05	1552.19
Υ 14.0	1595.75	1580.09	1571.93	1553.24
Υ 15.0	1595.94	1580.35	1572.22	1553.46
Υ 16.0	1595.59	1580.24	1572.03	1553.16
Υ 17.0	1594.59	1579.56	1571.25	1552.56
Υ 18.0	1592.90	1578.34	1569.83	1551.22
Υ 19.0	1590.93	1576.40	1567.99	1549.34
Υ 20.0	1588.12	1574.10	1565.52	1546.96
Υ 21.0	1584.64	1571.10	1562.41	1543.95
Υ 22.0	1580.83	1567.76	1558.91	1540.51
Υ 23.0	1576.46	1563.53	1554.75	1536.25
Υ 24.0	1571.53	1558.72	1550.28	1531.57
Υ 25.0	1566.03	1553.71	1544.92	1526.40
Υ 26.0	1559.85	1548.02	1539.20	1520.63
Υ 27.0	1553.51	1542.06	1532.96	1514.60
Υ 28.0	1546.35	1535.19	1526.18	1507.76
Υ 29.0	1538.68	1527.77	1518.76	1500.49
Υ 30.0	1530.94	1520.41	1511.10	1493.01
Υ 31.0	1522.37	1512.07	1502.95	1484.74
Υ 32.0	1513.52	1503.57	1494.24	1476.18
Υ 33.0	1504.16	1494.65	1485.03	1467.24
Υ 34.0	1494.21	1485.05	1475.35	1457.60
Υ 35.0	1484.15	1475.03	1465.47	1447.54
Υ 36.0	1473.40	1464.96	1454.85	1437.48
Υ 37.0	1462.22	1453.96	1444.06	1426.81
Υ 38.0	1450.96	1443.15	1432.96	1415.89
Υ 39.0	1439.21	1431.58	1421.29	1404.45
Υ 40.0	1427.15	1419.60	1409.57	1392.61
Υ 41.0	1414.50	1407.74	1397.13	1380.72
Υ 42.0	1401.58	1395.05	1384.28	1368.17
Υ 43.0	1388.65	1381.90	1371.57	1355.39

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0
Y 44.0	1375.06	1369.08	1358.29	1342.74
Y 45.0	1361.32	1355.44	1344.60	1329.25
Y 46.0	1347.49	1341.87	1330.96	1315.95
Y 47.0	1332.97	1327.58	1316.72	1301.78
Y 48.0	1318.72	1313.06	1302.55	1287.30
Y 49.0	1303.55	1298.88	1287.77	1273.26
Y 50.0	1288.29	1283.94	1272.96	1258.39
Y 51.0	1273.34	1268.74	1258.28	1243.44
Y 52.0	1257.66	1253.75	1242.98	1228.51
Y 53.0	1241.67	1238.11	1227.34	1213.02
Y 54.0	1225.82	1222.84	1212.06	1197.75
Y 55.0	1209.37	1206.84	1196.21	1182.13
Y 56.0	1193.56	1190.77	1180.89	1166.29
Y 57.0	1176.97	1175.20	1164.83	1150.87
Y 58.0	1160.48	1158.88	1148.83	1134.98
Y 59.0	1144.39	1142.49	1133.17	1118.76
Y 60.0	1127.63	1126.62	1116.80	1103.10
Y 61.0	1110.78	1110.07	1100.39	1086.95
Y 62.0	1094.29	1094.11	1084.56	1071.19
Y 63.0	1077.49	1077.60	1068.34	1055.02
Y 64.0	1061.00	1061.03	1052.48	1039.06
Y 65.0	1044.22	1044.81	1036.21	1023.53
Y 66.0	1027.02	1028.25	1019.75	1007.38
Y 67.0	1010.52	1011.68	1004.01	991.45
Y 68.0	993.59	995.71	987.73	976.10
Y 69.0	976.67	979.14	971.60	960.36
Y 70.0	960.30	962.41	955.96	944.66
Y 71.0	943.55	944.78	939.94	928.04
Y 72.0	927.11	927.55	924.37	911.16
Y 73.0	910.35	911.43	908.55	895.74
Y 74.0	893.71	895.24	892.70	880.32
Y 75.0	877.76	879.28	877.55	865.10
Y 76.0	861.26	863.76	861.94	850.51
Y 77.0	844.89	847.89	846.47	835.47
Y 78.0	829.08	832.23	831.57	820.65
Y 79.0	813.01	817.13	816.42	806.56
Y 80.0	797.60	801.66	801.95	791.98
Y 81.0	781.91	786.92	787.05	778.02
Y 82.0	766.24	771.70	772.29	763.65
Y 83.0	751.26	756.66	758.24	749.44
Y 84.0	735.89	742.29	743.77	735.92
Y 85.0	720.75	727.61	729.54	722.06
Y 86.0	706.34	713.15	715.93	708.46
Y 87.0	691.69	699.41	702.04	695.44

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0
Y 88.0	677.66	685.34	688.72	682.03
Y 89.0	663.23	671.87	675.11	669.19
Y 90.0	649.14	658.17	661.65	656.23
Y 91.0	635.69	644.85	648.87	643.49
Y 92.0	622.12	632.04	635.93	631.30
Y 93.0	608.80	619.00	623.24	618.86
Y 94.0	596.02	606.12	611.08	606.59
Y 95.0	583.07	593.84	598.67	594.86
Y 96.0	570.83	581.46	586.80	583.02
Y 97.0	558.41	569.71	574.89	571.72
Y 98.0	546.29	557.79	563.17	560.31
Y 99.0	534.88	546.17	552.19	549.16
Y 100.0	523.23	535.00	540.85	538.41
Y 101.0	511.63	523.75	529.68	527.55
Y 102.0	500.61	512.73	518.95	516.83
Y 103.0	489.39	502.30	508.15	506.73
Y 104.0	478.50	491.78	497.80	496.43
Y 105.0	467.08	481.44	486.70	486.64
Y 106.0	456.76	471.54	475.79	476.67
Y 107.0	446.97	461.56	466.14	460.46
Y 108.0	437.06	452.01	456.36	419.48
Y 109.0	427.37	442.35	446.80	361.50
Y 110.0	418.20	432.89	437.62	306.18
Y 111.0	408.87	423.77	428.35	261.56
Y 112.0	397.95	414.59	419.51	235.12
Y 113.0	367.22	405.48	410.43	232.79
Y 114.0	326.00	396.76	401.56	243.64
Y 115.0	284.75	387.92	393.08	254.34
Y 116.0	245.85	379.46	384.38	261.85
Y 117.0	213.25	370.87	375.81	268.70
Y 118.0	189.88	362.32	367.57	273.02
Y 119.0	184.20	354.11	359.10	275.95
Y 120.0	190.84	345.78	350.96	277.74
Y 121.0	198.84	337.55	342.66	275.14
Y 122.0	204.97	329.61	334.40	269.14
Y 123.0	207.38	321.47	326.49	262.92
Y 124.0	206.28	313.65	318.26	256.89
Y 125.0	207.75	305.60	310.13	250.77
Y 126.0	209.31	297.63	302.34	244.69
Y 127.0	210.31	290.05	294.30	238.82
Y 128.0	210.49	282.24	286.61	232.79
Y 129.0	209.19	274.48	278.65	226.81
Y 130.0	203.66	266.96	270.67	221.05
Y 131.0	198.04	259.25	262.93	215.09

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0
Y 132.0	192.22	251.85	254.95	209.23
Y 133.0	186.02	244.23	247.03	200.71
Y 134.0	179.41	236.70	239.33	184.81
Y 135.0	171.96	229.48	231.43	163.96
Y 136.0	164.31	221.83	223.49	141.88
Y 137.0	156.09	213.56	215.80	121.19
Y 138.0	147.56	205.20	207.91	102.94
Y 139.0	139.18	196.34	200.27	86.73
Y 140.0	130.39	187.54	192.49	76.57
Y 141.0	121.45	178.34	184.73	73.26
Y 142.0	112.75	169.05	177.27	70.70
Y 143.0	103.74	159.92	169.64	68.21
Y 144.0	94.85	150.52	162.06	65.64
Y 145.0	86.03	141.14	154.81	63.09
Y 146.0	76.71	132.10	147.42	60.61
Y 147.0	67.30	122.89	140.41	58.07
Y 148.0	57.33	113.69	133.25	56.50
Y 149.0	47.14	104.66	126.22	57.67
Y 150.0	37.65	95.00	119.54	61.22
Y 151.0	29.17	85.46	112.85	65.36
Y 152.0	22.98	75.65	106.32	68.82
Y 153.0	19.26	66.75	100.17	73.01
Y 154.0	16.72	59.19	93.94	76.14
Y 155.0	14.13	53.13	88.04	77.68
Y 156.0	11.28	48.38	82.11	77.26
Y 157.0	10.47	44.91	76.26	72.75
Y 158.0	10.05	41.55	70.67	67.85
Y 159.0	10.36	38.53	65.12	63.17
Y 160.0	10.90	35.62	59.67	58.44
Y 161.0	11.08	32.84	54.54	53.82
Y 162.0	10.63	30.29	49.44	49.47
Y 163.0	10.00	27.55	44.70	45.18
Y 164.0	9.77	24.72	40.08	41.02
Y 165.0	9.81	22.01	35.64	37.16
Y 166.0	9.87	19.45	31.64	33.33
Y 167.0	9.95	17.28	27.77	29.79
Y 168.0	10.10	15.38	24.09	26.41
Y 169.0	10.24	13.86	20.84	23.32
Y 170.0	10.37	12.94	18.32	20.53
Y 171.0	10.47	12.42	16.27	18.00
Y 172.0	10.56	11.96	14.38	15.88
Y 173.0	10.67	11.44	12.84	14.18
Y 174.0	10.74	11.04	11.82	12.88
Y 175.0	10.93	10.97	11.28	12.07

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0
Y 176.0	11.09	11.11	11.23	11.67
Y 177.0	11.18	11.27	11.45	11.59
Y 178.0	11.24	11.47	11.53	11.73
Y 179.0	11.33	11.86	11.73	12.10
Y 180.0	11.68	11.68	11.68	11.68