NATA LIGHTING CO.,LTD.
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Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client: NT
LumCAT: 1-1890-A
Luminaire: 92.70.481.00
Report No: 20260323-B006
Ballast type: DC

Test No: 20260323-C006	Voltage(V): 31.410
LampCAT: CITIZEN CLU703	Current(A): 0.353
Lamp flux(lm): 1170.4	Power (W): 11.080
Number of Lamps: 1	PF: 0.000
Length(mm): 35	Width(mm): 35
Phm Type: C	Height(mm): 14

Photometric Results

Lumens(lm): 1060.24, Efficiency(%): 90.59% , Luminous Efficacy(lm/W): 95.69
Central intensity(cd): 2955.868, Maximum intensity(cd): 2955.868
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=19.6
[C90/270]Total=19.6
Field angle(10%Imax): [C0/180]Total=76.2
[C90/270]Total=76.2
Maximum s/h(1/2): C0_180=0.33 C90_270=0.33
Maximum s/h(1/4): C0_180=0.47 C90_270=0.47
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.59%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.212%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2955.868	0.000	0	0.00%	0.00%
1.0	2939.402	2.821	2.821	0.24%	0.27%
2.0	2874.375	8.344	11.165	0.71%	1.05%
3.0	2756.802	13.468	24.633	1.15%	2.32%
4.0	2610.702	17.967	42.6	1.54%	4.02%
5.0	2393.995	21.530	64.13	1.84%	6.05%
6.0	2159.625	23.930	88.06	2.04%	8.31%
7.0	1975.148	25.664	113.725	2.19%	10.73%
8.0	1763.056	26.754	140.478	2.29%	13.25%
9.0	1597.626	27.236	167.715	2.33%	15.82%
10.0	1442.453	27.512	195.227	2.35%	18.41%
11.0	1315.661	27.559	222.786	2.35%	21.01%
12.0	1200.553	27.506	250.292	2.35%	23.61%
13.0	1117.759	27.513	277.804	2.35%	26.20%
14.0	1057.001	27.837	305.641	2.38%	28.83%
15.0	1002.483	28.274	333.914	2.42%	31.49%
16.0	960.572	28.764	362.679	2.46%	34.21%
17.0	918.976	29.270	391.948	2.50%	36.97%
18.0	883.725	29.723	421.671	2.54%	39.77%
19.0	844.699	30.071	451.742	2.57%	42.61%
20.0	805.829	30.209	481.951	2.58%	45.46%
21.0	768.691	30.234	512.185	2.58%	48.31%
22.0	728.836	30.093	542.278	2.57%	51.15%
23.0	689.830	29.767	572.046	2.54%	53.95%
24.0	648.443	29.259	601.305	2.50%	56.71%
25.0	609.889	28.612	629.917	2.44%	59.41%
26.0	566.342	27.765	657.682	2.37%	62.03%
27.0	523.581	26.665	684.347	2.28%	64.55%
28.0	483.999	25.510	709.857	2.18%	66.95%
29.0	450.762	24.456	734.313	2.09%	69.26%
30.0	429.513	23.767	758.08	2.03%	71.50%
31.0	407.079	23.281	781.361	1.99%	73.70%
32.0	393.454	22.934	804.296	1.96%	75.86%
33.0	384.078	22.906	827.202	1.96%	78.02%
34.0	373.579	22.929	850.131	1.96%	80.18%
35.0	359.546	22.768	872.899	1.95%	82.33%
36.0	344.086	22.404	895.303	1.91%	84.44%
37.0	325.763	21.847	917.15	1.87%	86.50%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	300.025	20.888	938.038	1.78%	88.47%
39.0	267.606	19.375	957.413	1.66%	90.30%
40.0	235.523	17.547	974.96	1.50%	91.96%
41.0	198.374	15.451	990.411	1.32%	93.41%
42.0	163.175	13.136	1003.547	1.12%	94.65%
43.0	127.453	10.766	1014.312	0.92%	95.67%
44.0	96.502	8.453	1022.765	0.72%	96.47%
45.0	67.429	6.300	1029.065	0.54%	97.06%
46.0	46.578	4.459	1033.524	0.38%	97.48%
47.0	32.786	3.157	1036.68	0.27%	97.78%
48.0	23.598	2.279	1038.959	0.19%	97.99%
49.0	19.435	1.767	1040.727	0.15%	98.16%
50.0	17.222	1.528	1042.255	0.13%	98.30%
51.0	15.732	1.394	1043.649	0.12%	98.44%
52.0	14.201	1.284	1044.934	0.11%	98.56%
53.0	12.722	1.171	1046.105	0.10%	98.67%
54.0	11.369	1.062	1047.167	0.09%	98.77%
55.0	10.142	0.960	1048.127	0.08%	98.86%
56.0	9.135	0.871	1048.998	0.07%	98.94%
57.0	8.254	0.795	1049.793	0.07%	99.01%
58.0	7.646	0.735	1050.528	0.06%	99.08%
59.0	7.174	0.693	1051.221	0.06%	99.15%
60.0	6.838	0.662	1051.883	0.06%	99.21%
61.0	6.408	0.632	1052.515	0.05%	99.27%
62.0	5.737	0.585	1053.101	0.05%	99.33%
63.0	5.034	0.524	1053.624	0.04%	99.38%
64.0	4.290	0.458	1054.082	0.04%	99.42%
65.0	3.702	0.396	1054.477	0.03%	99.46%
66.0	3.220	0.345	1054.823	0.03%	99.49%
67.0	2.958	0.311	1055.133	0.03%	99.52%
68.0	2.800	0.292	1055.425	0.02%	99.55%
69.0	2.685	0.280	1055.705	0.02%	99.57%
70.0	2.622	0.273	1055.977	0.02%	99.60%
71.0	2.559	0.268	1056.245	0.02%	99.62%
72.0	2.517	0.264	1056.509	0.02%	99.65%
73.0	2.475	0.261	1056.77	0.02%	99.67%
74.0	2.402	0.256	1057.027	0.02%	99.70%
75.0	2.360	0.252	1057.278	0.02%	99.72%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.297	0.247	1057.525	0.02%	99.74%
77.0	2.213	0.240	1057.766	0.02%	99.77%
78.0	2.140	0.233	1057.999	0.02%	99.79%
79.0	2.056	0.225	1058.224	0.02%	99.81%
80.0	2.003	0.219	1058.443	0.02%	99.83%
81.0	1.951	0.214	1058.657	0.02%	99.85%
82.0	1.888	0.208	1058.865	0.02%	99.87%
83.0	1.825	0.202	1059.067	0.02%	99.89%
84.0	1.762	0.195	1059.262	0.02%	99.91%
85.0	1.626	0.185	1059.447	0.02%	99.93%
86.0	1.552	0.174	1059.621	0.01%	99.94%
87.0	1.468	0.165	1059.786	0.01%	99.96%
88.0	1.416	0.158	1059.944	0.01%	99.97%
89.0	1.353	0.152	1060.096	0.01%	99.99%
90.0	1.280	0.144	1060.24	0.01%	100.00%

Zonal flux distribution table

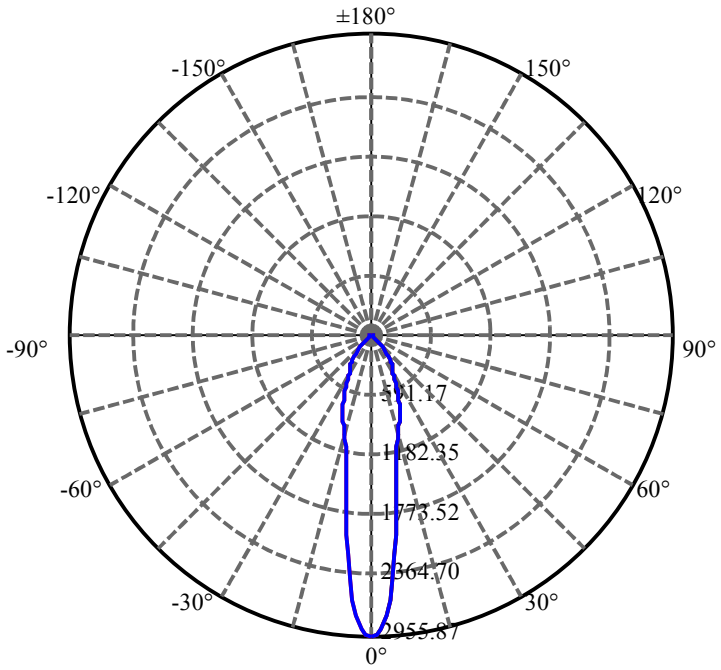
ZONAL LUMEN SUMMARY

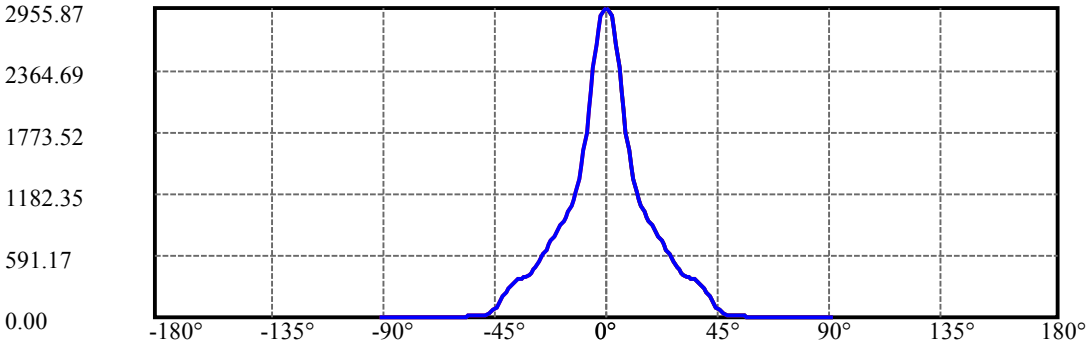
Zone	Lumens	%Lamp	%Fixt
0-30	758.08	64.77%	71.50%
0-40	974.96	83.30%	91.96%
0-60	1051.88	89.88%	99.21%
0-90	1060.10	90.58%	99.99%
0-120	1060.10	90.58%	99.99%
0-180	1060.24	90.59%	100.00%
60-90	8.21	0.70%	0.77%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-33.92	848.19	72.47%	80.00%

ZONAL LUMEN SUMMARY

0-10	195.23
10-20	286.72
20-30	276.13
30-40	216.88
40-50	67.29
50-60	9.63
60-70	4.09
70-80	2.47
80-90	1.65
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

Light Distribution Curve [Unit:cd]





C0(Max):

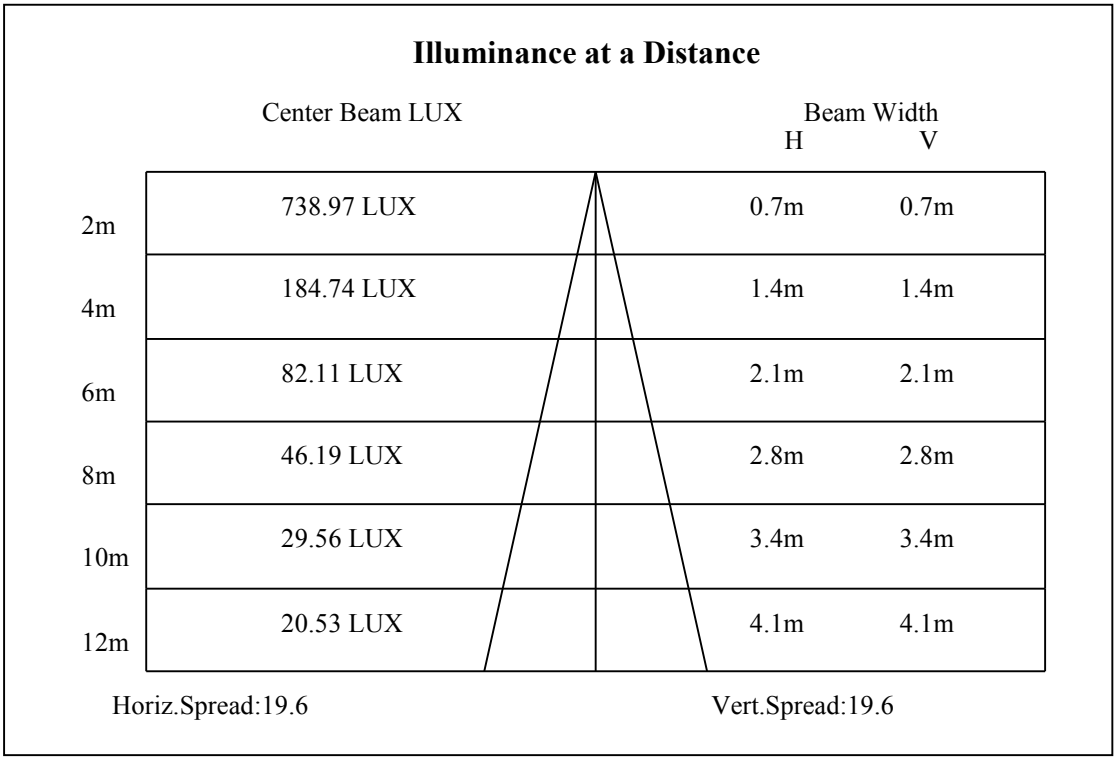
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:38.1 Right:38.1
:C90/270Left:38.1 Right:38.1

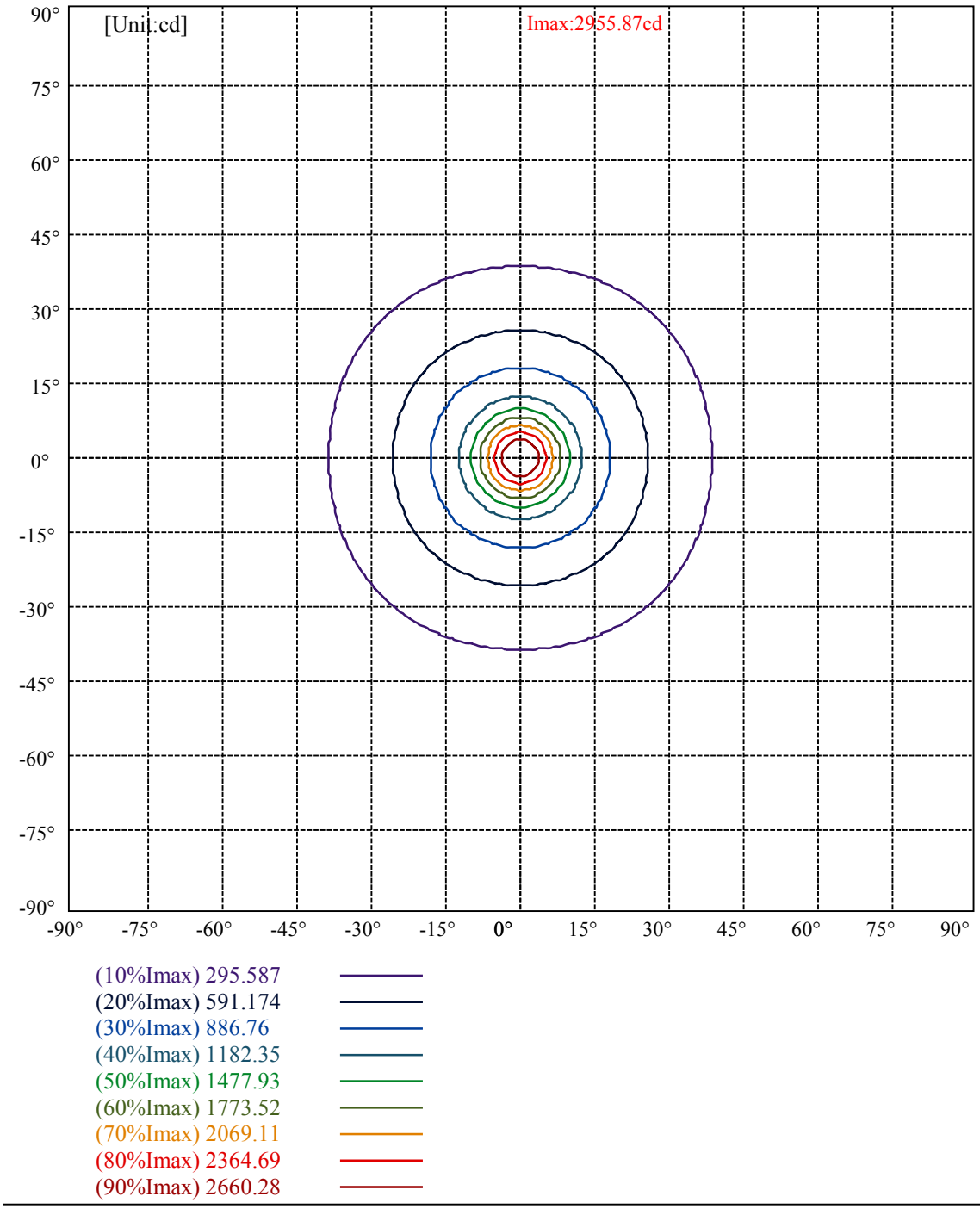
Beam Angle(50%Imax):C0/180Left:9.8 Right:9.8
:C90/270Left:9.8 Right:9.8

Lux distance Curve



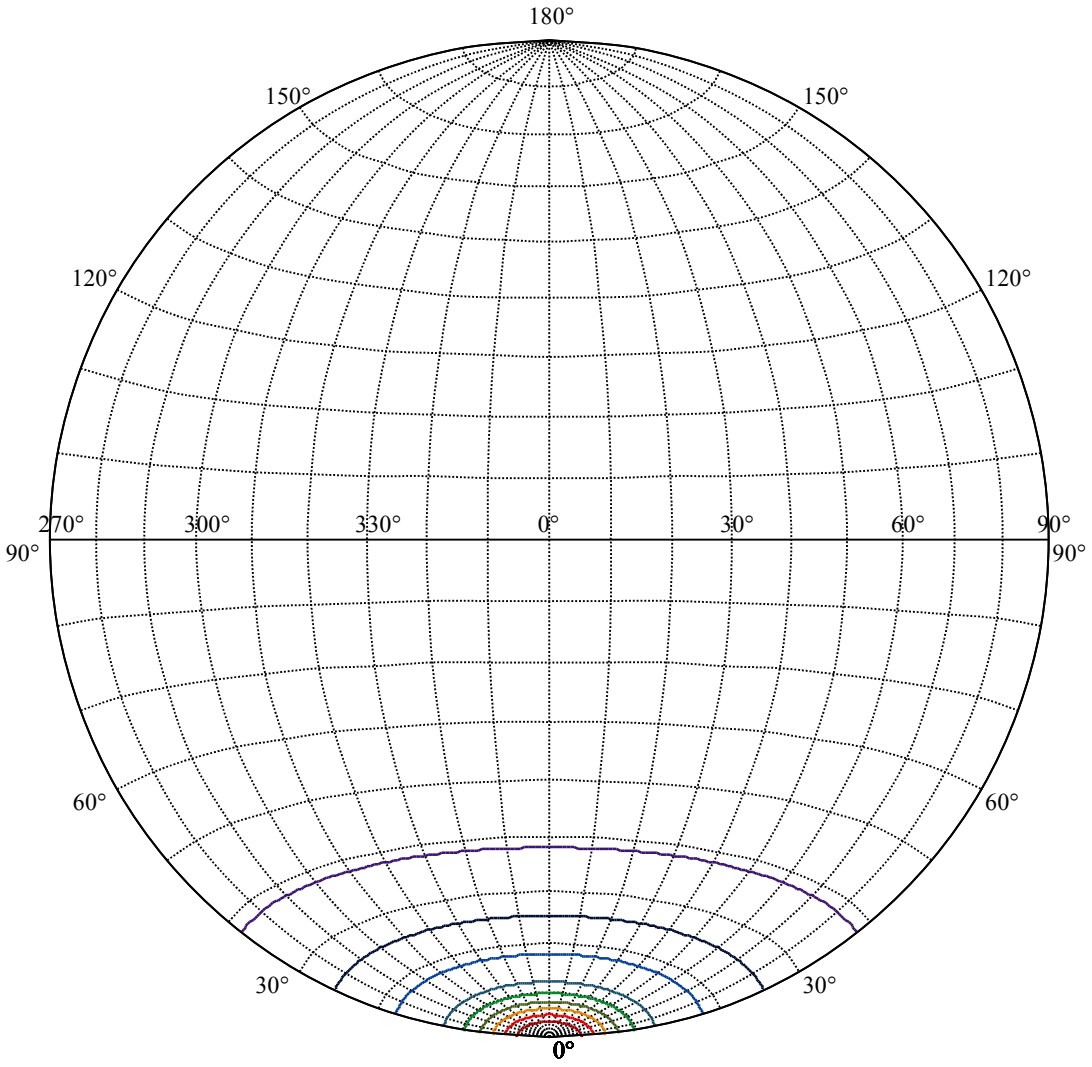
Equipment: GMS1980 Date: 2026/3/23 Operator: 杨泽全

Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 9.16



Equipment: GMS1980
Temperature(°C): 25.0
Date: 2026/3/23
Humidity(%): 60.0%
Operator: 杨泽全
Distance(m): 9.16

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:2955.87

(10%Imax) 295.587
(20%Imax) 591.174
(30%Imax) 886.76
(40%Imax) 1182.35
(50%Imax) 1477.93
(60%Imax) 1773.52
(70%Imax) 2069.11
(80%Imax) 2364.69
(90%Imax) 2660.28

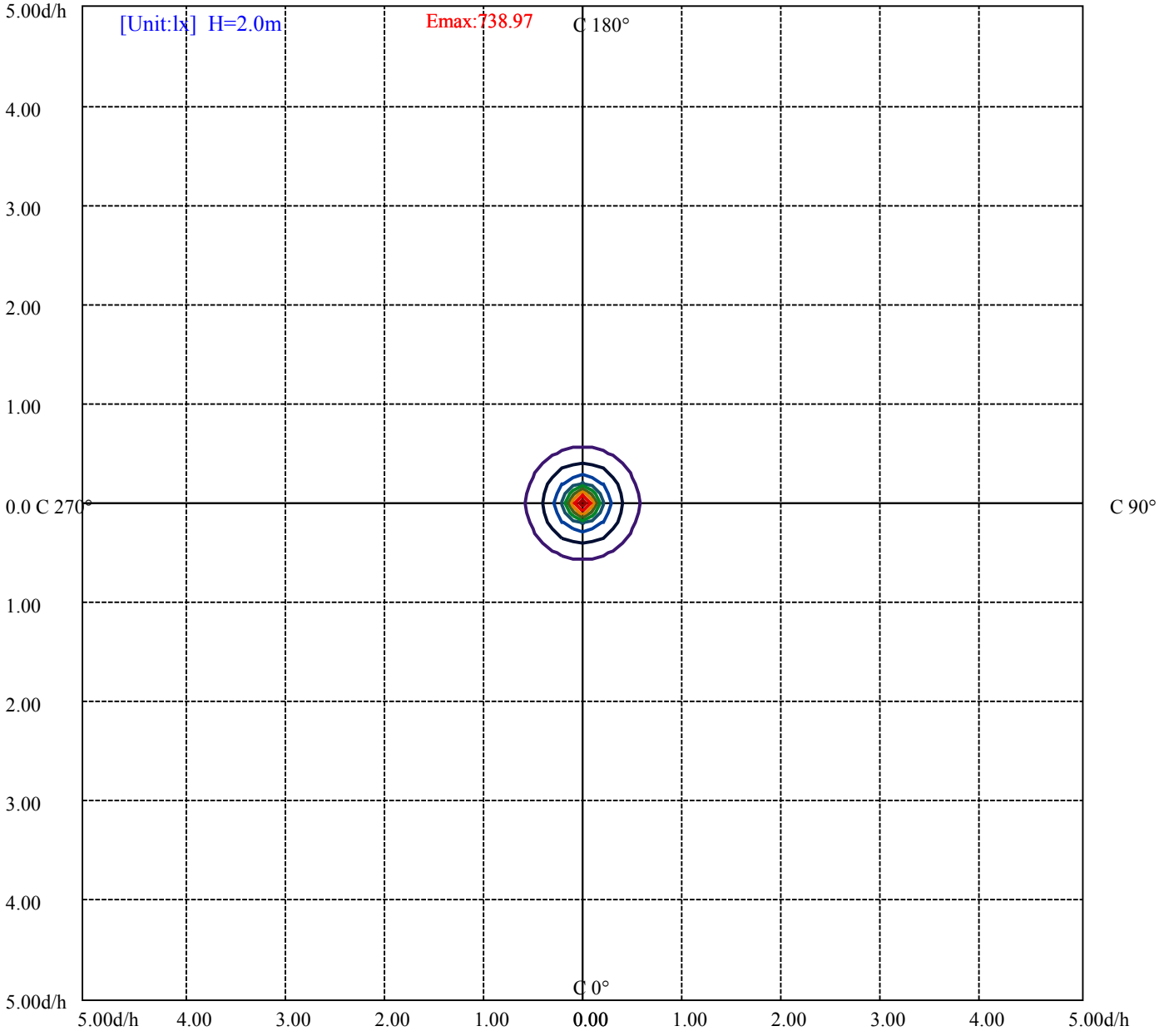
Equipment: GMS1980
Temperature(°C): 25.0

Date: 2026/3/23
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.16

NT Nata 1-1890-A

ISO illuminance diagram

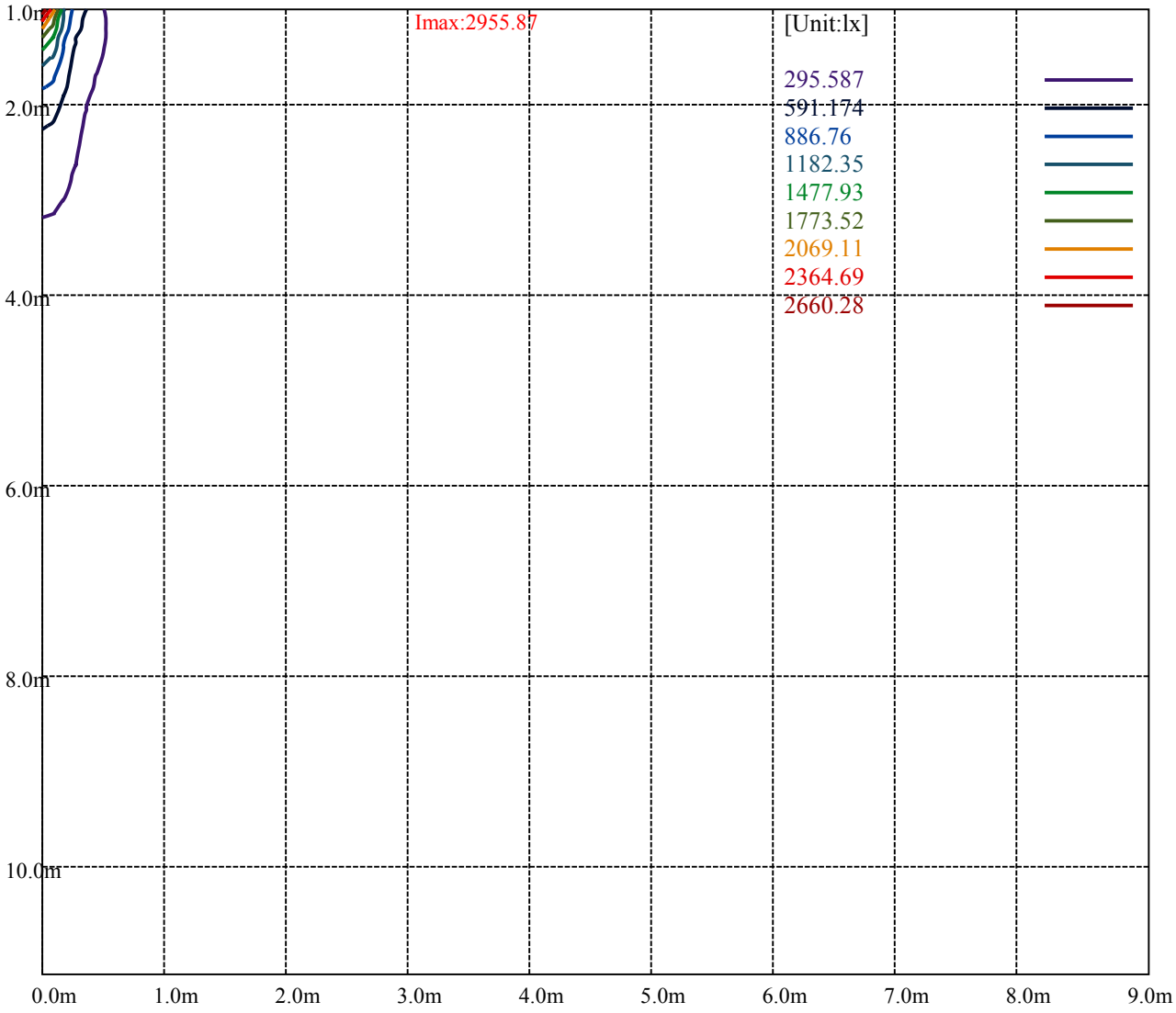


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2026/3/23
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.16

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2026/3/23
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.16

NT Nata 1-1890-A

Luminance Limitting Curve(no luminous side)

Luminance Table

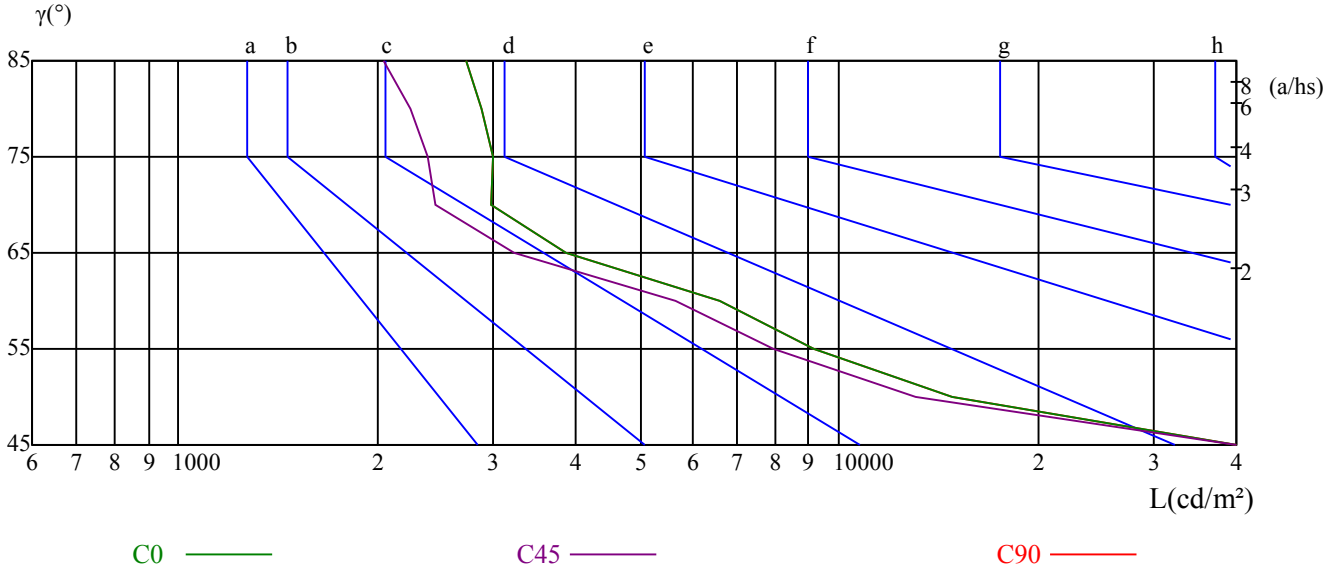
γ	45	50	55	60	65	70	75	80	85
C0	55603	14811	9187	6595	3849	2982	2986	2881	2733
C45	49719	13064	7984	5639	3231	2450	2392	2238	2039
C90	55603	14811	9187	6595	3849	2982	2986	2881	2733

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7151	7151	7151	7443	7443	7443	15227	15227	15227

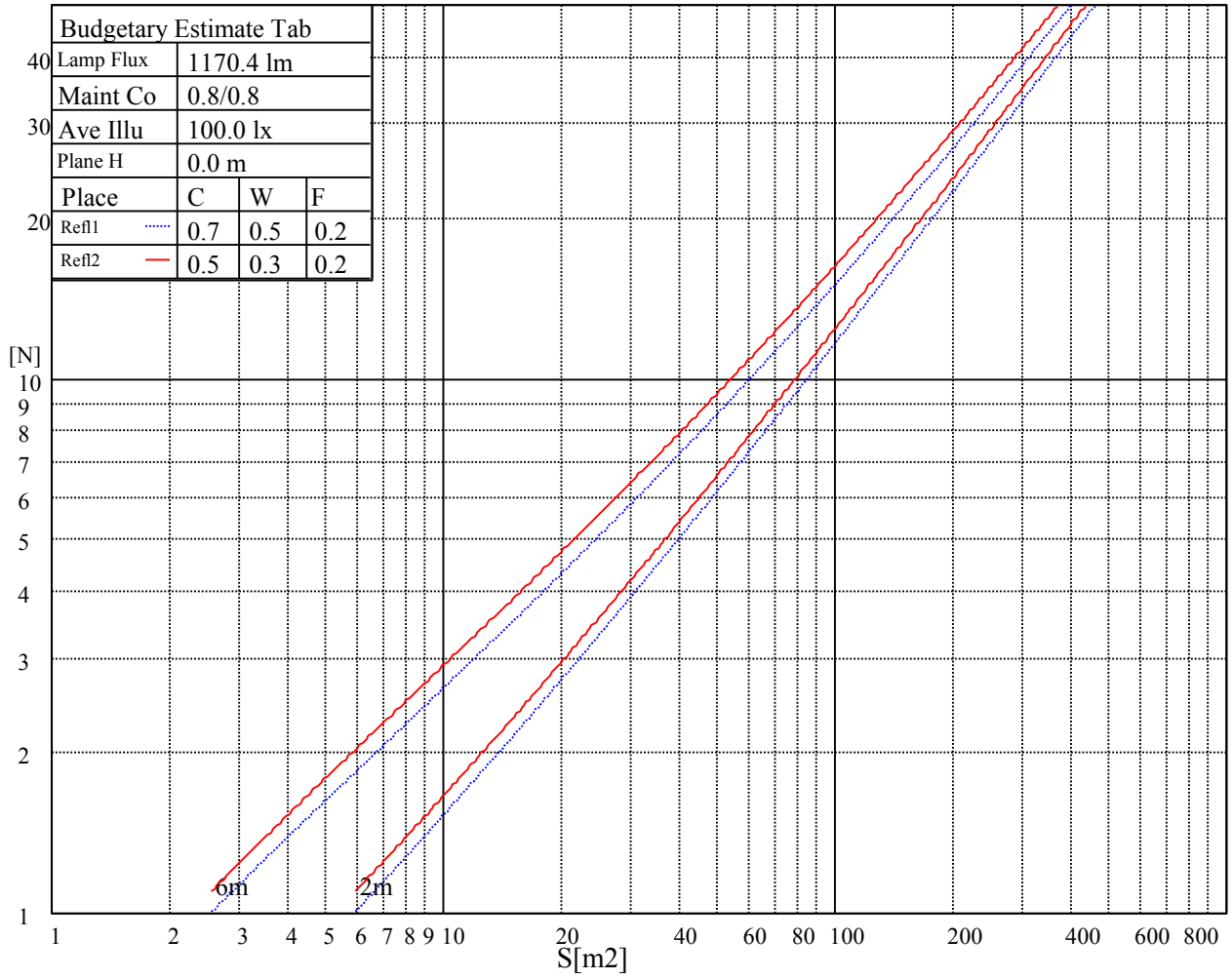
Glare Table

Glare	Quality	Service Values Illuminance(lx)							
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					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limitting Curve



Budgetary Estimate Table



Equipment: GMS1980
Temperature(°C): 25.0

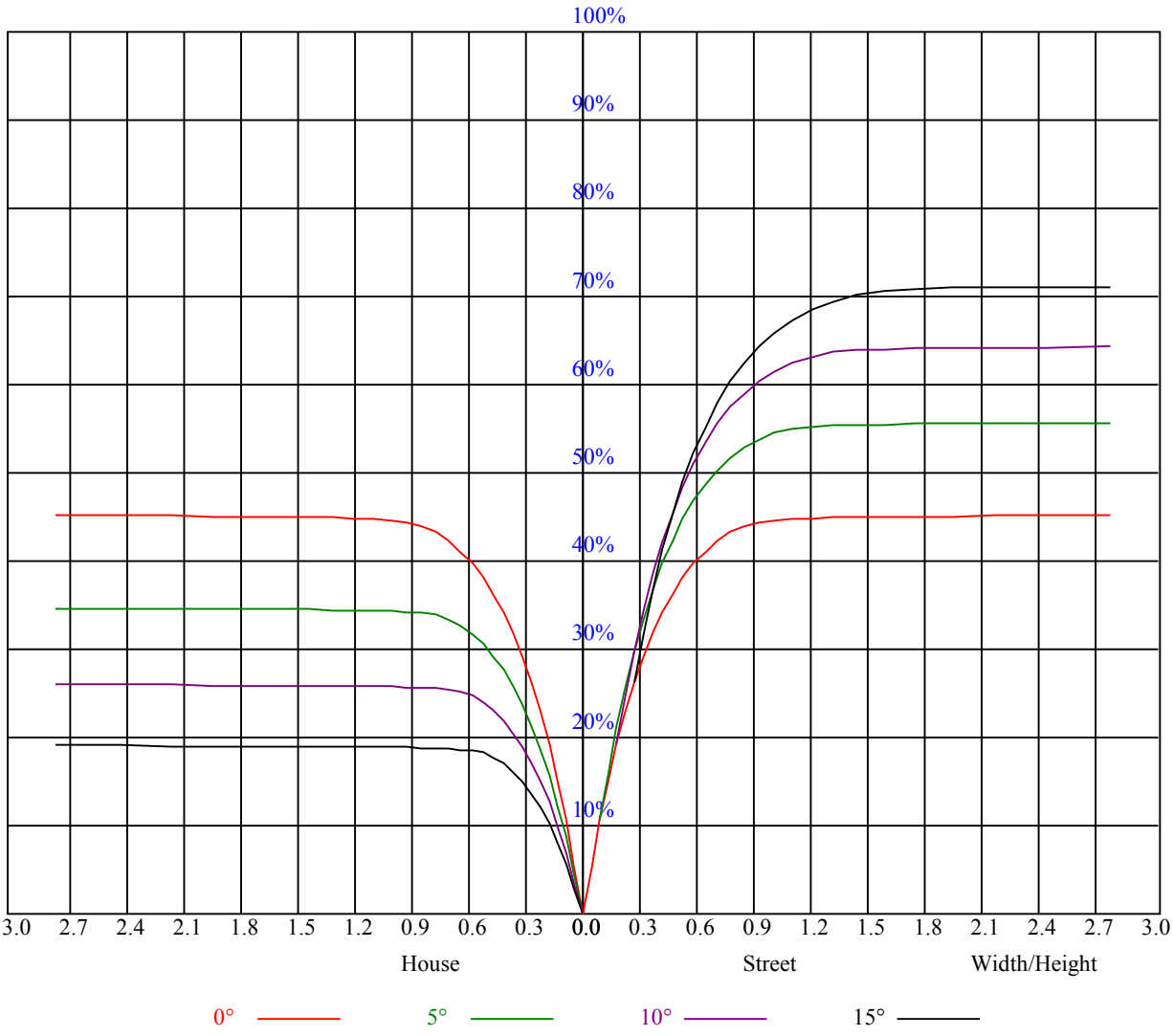
Date: 2026/3/23
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.16

Utilization factor table for indoor luminaire

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.08	1.08	1.08	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.91
1	1.01	0.98	0.96	0.99	0.97	0.95	0.95	0.93	0.92	0.92	0.90	0.89	0.88	0.88	0.87	0.85
2	0.94	0.90	0.87	0.92	0.89	0.86	0.89	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.80
3	0.88	0.84	0.80	0.87	0.83	0.80	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
4	0.83	0.78	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.70
5	0.78	0.73	0.69	0.77	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.72	0.69	0.67	0.66
6	0.73	0.68	0.65	0.73	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62
7	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.58
8	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.56	0.55
9	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.52
10	0.60	0.55	0.51	0.59	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.57	0.54	0.51	0.50

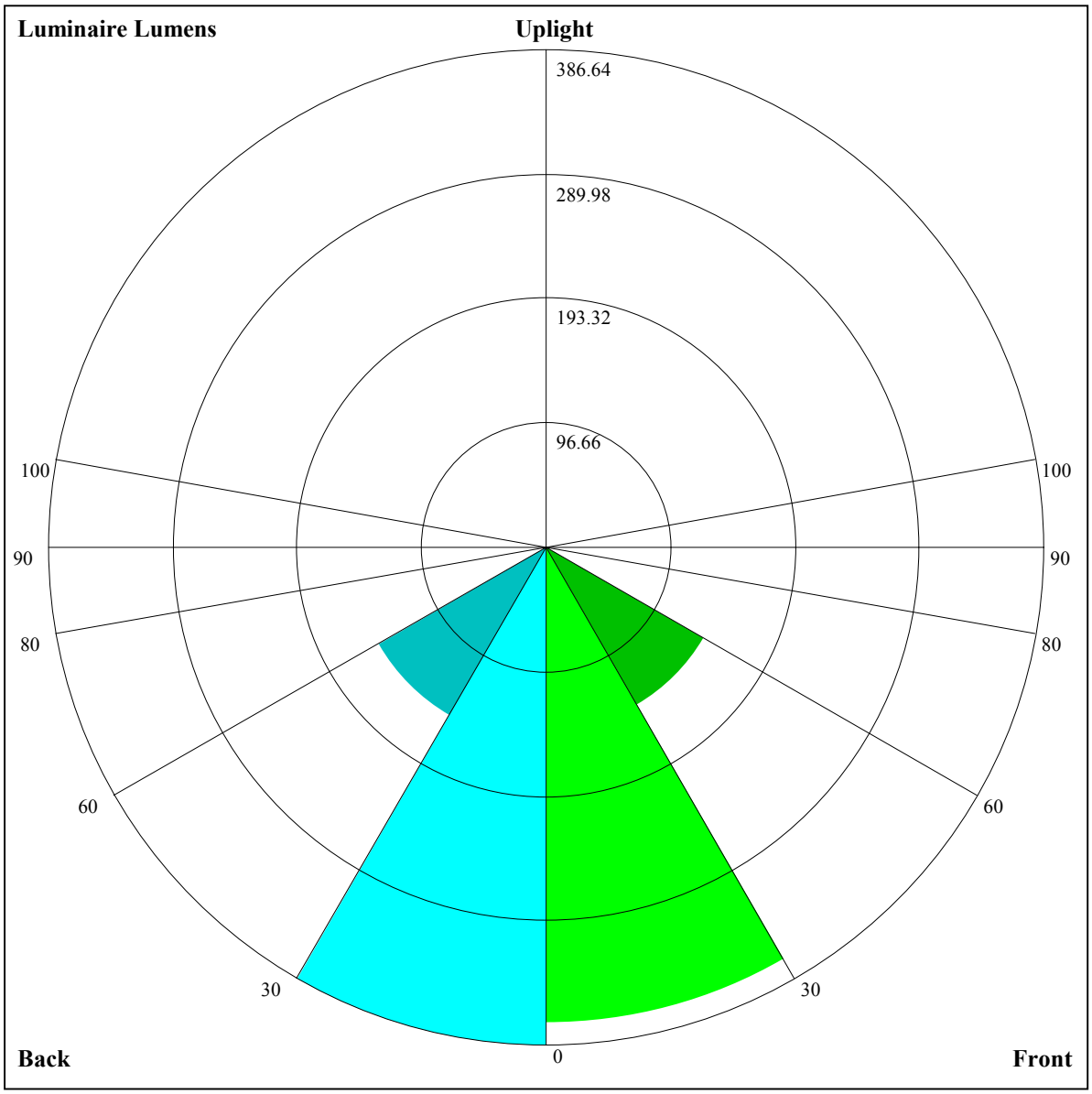
Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2026/3/23
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.16



Luminaire Lumens:
FL=369.61,FM=141.58,FH=3.44,FVH=0.89
BL=386.64,BM=150.81,BH=3.43,BVH=0.9
UL=0,UH=0

BUG Rating:B1-U0-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	2973.70	2926.71	2840.29	2683.38	2519.77	2273.09	1900.55	1643.38	1643.38
45.0	2966.99	2989.64	2974.54	2906.57	2817.63	2693.45	2537.39	2308.33	2108.63
90.0	2980.41	2980.41	2931.75	2858.75	2754.70	2617.94	2406.50	2213.51	1673.08
135.0	2902.38	2977.05	2993.84	2961.11	2896.51	2796.66	2662.41	2454.32	2263.02
180.0	2973.70	2983.77	2949.37	2875.53	2737.92	2587.73	2407.34	2202.61	1995.36
225.0	2966.99	2910.77	2779.04	2630.52	2402.30	2191.70	1651.68	1651.68	1515.92
270.0	2980.41	2945.17	2867.14	2709.40	2539.07	2338.53	2058.29	1820.84	1561.57
315.0	2902.38	2801.69	2659.05	2429.15	2217.71	1652.86	1652.86	1506.53	1343.50
360.0	2973.70	2926.71	2840.29	2683.38	2519.77	2273.09	1900.55	1643.38	1643.38

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1429.08	1289.96	1180.89	1100.17	1028.93	986.81	953.59	923.72	882.94
45.0	1906.42	1672.32	1508.71	1371.94	1234.34	1154.62	1092.53	1031.28	990.17
90.0	1673.08	1587.75	1437.22	1283.00	1188.44	1114.85	1041.94	991.26	946.54
135.0	2063.32	1866.14	1683.23	1488.57	1360.19	1256.15	1155.46	1090.02	1017.86
180.0	1745.32	1568.28	1418.93	1272.09	1182.31	1113.51	1042.19	996.04	944.86
225.0	1362.46	1214.79	1129.62	1065.77	1017.69	979.60	940.41	911.38	881.34
270.0	1389.56	1246.08	1136.17	1040.51	986.81	944.86	912.98	881.93	859.28
315.0	1211.76	1094.30	1030.53	982.37	943.35	905.59	880.76	858.94	828.82
360.0	1429.08	1289.96	1180.89	1100.17	1028.93	986.81	953.59	923.72	882.94

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	851.81	814.05	782.08	749.53	710.26	680.73	649.93	613.10	560.66
45.0	951.57	912.14	862.63	823.20	782.92	743.49	692.31	652.03	599.17
90.0	902.91	853.32	814.98	776.29	736.44	687.19	646.07	608.48	561.58
135.0	969.19	923.88	871.02	829.91	788.80	748.52	701.53	667.13	633.57
180.0	903.75	862.63	824.88	780.41	743.49	708.25	678.04	639.44	605.88
225.0	849.54	805.83	768.58	729.64	682.15	645.32	599.84	560.83	518.79
270.0	837.46	808.93	783.76	753.56	711.60	675.52	631.05	592.46	549.67
315.0	803.56	776.80	738.70	706.99	675.02	629.63	588.77	545.64	501.42
360.0	851.81	814.05	782.08	749.53	710.26	680.73	649.93	613.10	560.66

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	516.27	477.67	448.56	422.30	408.70	399.06	389.41	382.11	371.79
45.0	554.70	510.23	462.40	433.04	427.16	402.16	382.69	375.31	369.52
90.0	522.06	482.04	441.93	418.86	396.12	382.78	371.87	360.54	348.71
135.0	599.17	557.22	523.65	492.61	461.56	439.75	426.32	426.32	390.92
180.0	570.64	534.56	495.13	465.76	436.39	422.13	422.13	389.99	381.43
225.0	468.78	434.30	406.52	388.99	374.47	366.16	360.46	354.59	340.07
270.0	505.20	453.17	424.65	424.65	372.46	362.56	353.83	347.62	338.73
315.0	451.83	422.80	403.25	389.91	379.76	373.04	365.91	352.15	335.20
360.0	516.27	477.67	448.56	422.30	408.70	399.06	389.41	382.11	371.79

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	351.56	328.15	298.37	255.07	219.08	183.59	147.67	104.38	74.00
45.0	362.47	352.24	334.70	312.04	285.95	245.76	212.95	177.96	140.63
90.0	339.31	326.98	309.11	277.98	248.61	216.22	184.09	145.49	114.78
135.0	381.85	371.62	360.04	343.93	321.02	281.08	246.18	207.25	169.99
180.0	373.46	359.20	332.60	304.16	270.68	233.43	187.61	151.87	115.87
225.0	320.27	294.76	256.50	224.11	184.17	151.45	119.06	88.44	57.22
270.0	318.34	297.70	266.90	227.22	195.08	153.30	119.90	90.37	64.10
315.0	305.42	275.46	241.98	196.34	159.59	122.17	87.93	53.87	35.41
360.0	351.56	328.15	298.37	255.07	219.08	183.59	147.67	104.38	74.00

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	48.58	31.55	20.22	18.04	16.53	14.68	13.34	11.50	10.07
45.0	106.98	69.05	45.98	29.53	20.22	18.71	17.28	16.28	14.85
90.0	79.71	55.71	38.26	26.09	21.98	20.14	18.71	17.12	15.86
135.0	123.51	88.69	60.58	35.16	24.33	17.70	16.19	14.94	13.34
180.0	76.10	50.68	33.65	21.98	18.79	17.20	15.35	13.84	12.25
225.0	38.76	27.35	21.82	19.80	18.38	16.95	15.35	13.42	12.00
270.0	40.95	30.29	24.16	22.23	20.64	19.38	18.04	16.61	14.85
315.0	24.84	19.30	17.62	15.94	14.60	13.01	11.58	9.90	8.56
360.0	48.58	31.55	20.22	18.04	16.53	14.68	13.34	11.50	10.07

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	8.81	7.30	6.38	5.54	4.87	4.28	3.94	3.69	3.52
45.0	13.76	12.59	11.83	10.91	10.24	9.65	9.06	8.64	8.22
90.0	14.68	13.59	12.42	11.66	10.99	10.15	9.40	8.81	7.55
135.0	12.00	10.66	9.31	7.89	7.05	6.13	5.54	4.95	4.53
180.0	10.32	8.89	7.72	6.71	5.62	4.78	4.28	3.86	3.61
225.0	10.57	9.57	8.64	7.89	7.64	7.55	7.72	7.13	6.21
270.0	13.42	12.08	11.24	10.49	10.24	10.40	10.57	10.15	8.56
315.0	7.38	6.46	5.54	4.95	4.53	4.45	4.20	4.03	3.69
360.0	8.81	7.30	6.38	5.54	4.87	4.28	3.94	3.69	3.52

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.36	3.27	3.10	2.94	2.85	2.77	2.68	2.60	2.52
45.0	7.13	6.04	4.95	3.78	3.19	2.85	2.68	2.60	2.52
90.0	6.38	5.03	4.20	3.61	3.36	3.10	3.02	2.94	2.85
135.0	4.45	4.11	3.52	3.19	2.77	2.60	2.52	2.43	2.35
180.0	3.44	3.27	3.19	3.02	2.85	2.77	2.68	2.60	2.52
225.0	5.20	4.11	3.52	3.02	2.85	2.77	2.68	2.60	2.60
270.0	7.05	5.62	4.53	3.69	3.44	3.19	3.02	3.02	3.02
315.0	3.27	2.85	2.60	2.52	2.35	2.35	2.18	2.18	2.10
360.0	3.36	3.27	3.10	2.94	2.85	2.77	2.68	2.60	2.52

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.52	2.43	2.35	2.35	2.35	2.27	2.18	2.10	2.01
45.0	2.52	2.43	2.43	2.43	2.35	2.27	2.27	2.10	2.01
90.0	2.85	2.77	2.68	2.60	2.52	2.43	2.35	2.27	2.18
135.0	2.27	2.27	2.27	2.18	2.18	2.10	2.01	2.01	2.01
180.0	2.43	2.43	2.35	2.35	2.27	2.18	2.18	2.10	2.01
225.0	2.52	2.43	2.35	2.27	2.27	2.10	2.01	1.93	1.93
270.0	2.94	2.94	2.77	2.68	2.52	2.43	2.27	2.18	2.10
315.0	2.10	2.10	2.01	2.01	1.93	1.93	1.85	1.76	1.76
360.0	2.52	2.43	2.35	2.35	2.35	2.27	2.18	2.10	2.01

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.01	1.93	1.93	1.85	1.76	1.59	1.51	1.51	1.43
45.0	2.01	1.93	1.85	1.85	1.76	1.68	1.51	1.43	1.43
90.0	2.10	2.10	2.01	1.85	1.68	1.59	1.51	1.43	1.34
135.0	1.93	1.85	1.76	1.76	1.68	1.59	1.51	1.51	1.43
180.0	1.93	1.85	1.85	1.85	1.68	1.59	1.59	1.51	1.43
225.0	1.85	1.85	1.76	1.59	1.51	1.43	1.43	1.34	1.26
270.0	2.01	1.93	1.85	1.76	1.51	1.51	1.34	1.34	1.26
315.0	1.76	1.68	1.59	1.59	1.43	1.43	1.34	1.26	1.26
360.0	2.01	1.93	1.93	1.85	1.76	1.59	1.51	1.51	1.43

Intensity data(cd)

C/γ(°)	90.0
0.0	1.26
45.0	1.34
90.0	1.26
135.0	1.43
180.0	1.26
225.0	1.26
270.0	1.26
315.0	1.17
360.0	1.26