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

Nata

Client: NT
LumCAT: 62-0100
Luminaire: 92.70.412.00
Report No:
Ballast type: DC
Test No: 20251022-C019
LampCAT: CITIZEN CLU038
Lamp flux(lm): 3630.8
Number of Lamps: 1
Length(mm): 75
Phm Type: C

Voltage(V): 36.420
Current(A): 0.703
Power (W): 25.600
PF: 0.000
Width(mm): 75
Height(mm): 35

Photometric Results

Lumens(lm): 3264.12, Efficiency(%): 89.90% , Luminous Efficacy(lm/W): 127.50
Central intensity(cd): 3091.737, Maximum intensity(cd): 3100.348
Angle of maximum intensity: C=45.0 γ=2.0
Beam Angle(50%Imax): [C0/180]Total=60.5
[C90/270]Total=60.4
Field angle(10%Imax): [C0/180]Total=91.8
[C90/270]Total=92.5
Maximum s/h(1/2): C0_180=0.94 C90_270=0.95
Maximum s/h(1/4): C0_180=0.90 C90_270=0.90
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.94%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.233%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3087.215	0.000	0	0.00%	0.00%
1.0	3086.677	2.954	2.954	0.08%	0.09%
2.0	3085.278	8.859	11.813	0.24%	0.36%
3.0	3079.680	14.745	26.557	0.41%	0.81%
4.0	3072.791	20.594	47.152	0.57%	1.44%
5.0	3064.071	26.400	73.552	0.73%	2.25%
6.0	3055.567	32.160	105.712	0.89%	3.24%
7.0	3044.802	37.865	143.577	1.04%	4.40%
8.0	3032.961	43.497	187.075	1.20%	5.73%
9.0	3019.505	49.052	236.126	1.35%	7.23%
10.0	3002.496	54.497	290.623	1.50%	8.90%
11.0	2986.672	59.844	350.467	1.65%	10.74%
12.0	2961.267	65.019	415.487	1.79%	12.73%
13.0	2938.015	70.010	485.497	1.93%	14.87%
14.0	2910.780	74.864	560.361	2.06%	17.17%
15.0	2873.534	79.410	639.77	2.19%	19.60%
16.0	2831.013	83.588	723.358	2.30%	22.16%
17.0	2781.603	87.404	810.761	2.41%	24.84%
18.0	2721.858	90.740	901.501	2.50%	27.62%
19.0	2657.269	93.586	995.087	2.58%	30.49%
20.0	2584.822	95.945	1091.032	2.64%	33.43%
21.0	2509.576	97.823	1188.855	2.69%	36.42%
22.0	2420.444	99.071	1287.926	2.73%	39.46%
23.0	2332.711	99.734	1387.66	2.75%	42.51%
24.0	2234.966	99.866	1487.526	2.75%	45.57%
25.0	2136.361	99.394	1586.92	2.74%	48.62%
26.0	2007.280	97.811	1684.731	2.69%	51.61%
27.0	1888.264	95.305	1780.036	2.62%	54.53%
28.0	1772.048	92.671	1872.708	2.55%	57.37%
29.0	1685.057	90.448	1963.155	2.49%	60.14%
30.0	1577.355	88.084	2051.24	2.43%	62.84%
31.0	1460.008	84.525	2135.765	2.33%	65.43%
32.0	1346.278	80.397	2216.162	2.21%	67.89%
33.0	1231.321	75.937	2292.099	2.09%	70.22%
34.0	1125.783	71.333	2363.432	1.96%	72.41%
35.0	1019.448	66.623	2430.055	1.83%	74.45%
36.0	929.745	62.063	2492.118	1.71%	76.35%
37.0	838.739	57.678	2549.796	1.59%	78.12%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	754.150	53.168	2602.964	1.46%	79.74%
39.0	676.320	48.826	2651.79	1.34%	81.24%
40.0	609.072	44.830	2696.62	1.23%	82.61%
41.0	544.247	41.069	2737.689	1.13%	83.87%
42.0	486.924	37.464	2775.153	1.03%	85.02%
43.0	440.603	34.358	2809.512	0.95%	86.07%
44.0	407.458	32.008	2841.52	0.88%	87.05%
45.0	362.074	29.574	2871.094	0.81%	87.96%
46.0	324.053	26.833	2897.927	0.74%	88.78%
47.0	285.353	24.238	2922.164	0.67%	89.52%
48.0	256.934	21.922	2944.086	0.60%	90.20%
49.0	233.994	20.160	2964.247	0.56%	90.81%
50.0	212.368	18.610	2982.857	0.51%	91.38%
51.0	194.014	17.193	3000.05	0.47%	91.91%
52.0	177.178	15.928	3015.979	0.44%	92.40%
53.0	162.678	14.784	3030.762	0.41%	92.85%
54.0	149.652	13.766	3044.528	0.38%	93.27%
55.0	137.240	12.806	3057.335	0.35%	93.67%
56.0	126.712	11.927	3069.262	0.33%	94.03%
57.0	117.487	11.165	3080.428	0.31%	94.37%
58.0	108.735	10.461	3090.889	0.29%	94.69%
59.0	101.372	9.823	3100.712	0.27%	94.99%
60.0	94.989	9.277	3109.988	0.26%	95.28%
61.0	89.854	8.821	3118.809	0.24%	95.55%
62.0	84.708	8.411	3127.221	0.23%	95.81%
63.0	80.650	8.042	3135.263	0.22%	96.05%
64.0	76.936	7.733	3142.996	0.21%	96.29%
65.0	73.793	7.459	3150.455	0.21%	96.52%
66.0	70.671	7.208	3157.663	0.20%	96.74%
67.0	67.937	6.970	3164.632	0.19%	96.95%
68.0	65.310	6.750	3171.382	0.19%	97.16%
69.0	62.543	6.522	3177.905	0.18%	97.36%
70.0	59.842	6.285	3184.19	0.17%	97.55%
71.0	57.129	6.046	3190.236	0.17%	97.74%
72.0	54.438	5.801	3196.037	0.16%	97.91%
73.0	52.403	5.587	3201.624	0.15%	98.09%
74.0	51.273	5.450	3207.075	0.15%	98.25%
75.0	51.133	5.411	3212.485	0.15%	98.42%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	51.488	5.448	3217.933	0.15%	98.59%
77.0	51.090	5.469	3223.402	0.15%	98.75%
78.0	49.087	5.363	3228.764	0.15%	98.92%
79.0	45.191	5.066	3233.83	0.14%	99.07%
80.0	41.240	4.660	3238.49	0.13%	99.21%
81.0	37.052	4.234	3242.723	0.12%	99.34%
82.0	32.962	3.797	3246.52	0.10%	99.46%
83.0	29.259	3.382	3249.903	0.09%	99.56%
84.0	25.728	2.996	3252.898	0.08%	99.66%
85.0	21.842	2.596	3255.494	0.07%	99.74%
86.0	18.515	2.206	3257.7	0.06%	99.80%
87.0	15.813	1.879	3259.579	0.05%	99.86%
88.0	14.037	1.635	3261.214	0.05%	99.91%
89.0	13.101	1.487	3262.702	0.04%	99.96%
90.0	12.681	1.414	3264.115	0.04%	100.00%

Zonal flux distribution table

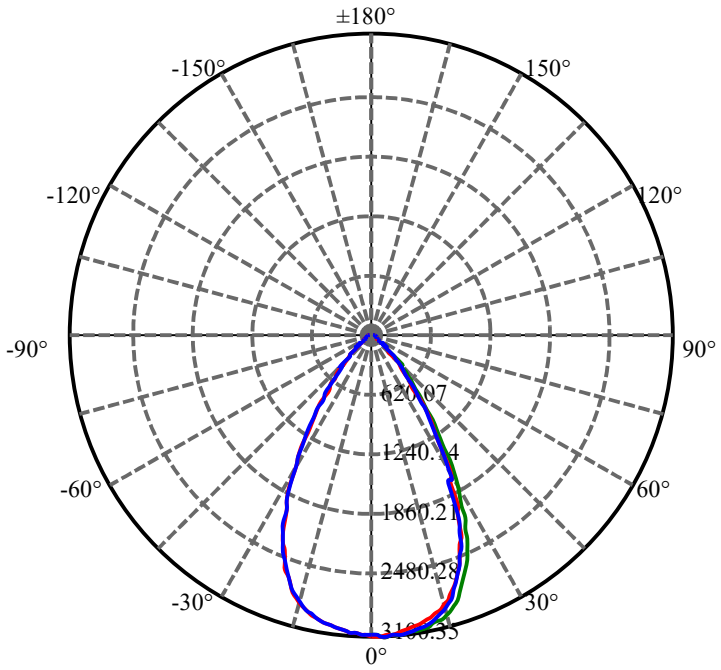
ZONAL LUMEN SUMMARY

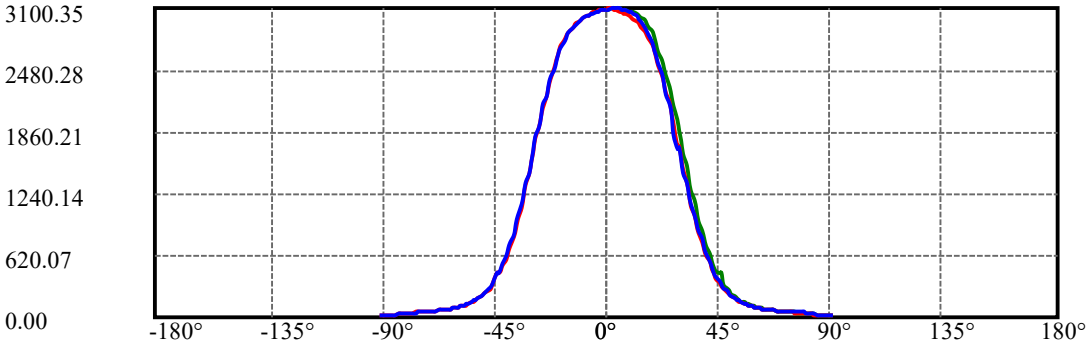
Zone	Lumens	%Lamp	%Fixt
0-30	2051.24	56.50%	62.84%
0-40	2696.62	74.27%	82.61%
0-60	3109.99	85.66%	95.28%
0-90	3262.70	89.86%	99.96%
0-120	3262.70	89.86%	99.96%
0-180	3264.12	89.90%	100.00%
60-90	152.71	4.21%	4.68%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-38.17	2611.29	71.92%	80.00%

ZONAL LUMEN SUMMARY

0-10	290.62
10-20	800.41
20-30	960.21
30-40	645.38
40-50	286.24
50-60	127.13
60-70	74.20
70-80	54.30
80-90	24.21
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]





C45(Max):

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:46.8 Right:45.0

:C90/270Left:49.0 Right:43.5

Beam Angle(50%Imax):C0/180Left:31.0 Right:29.5

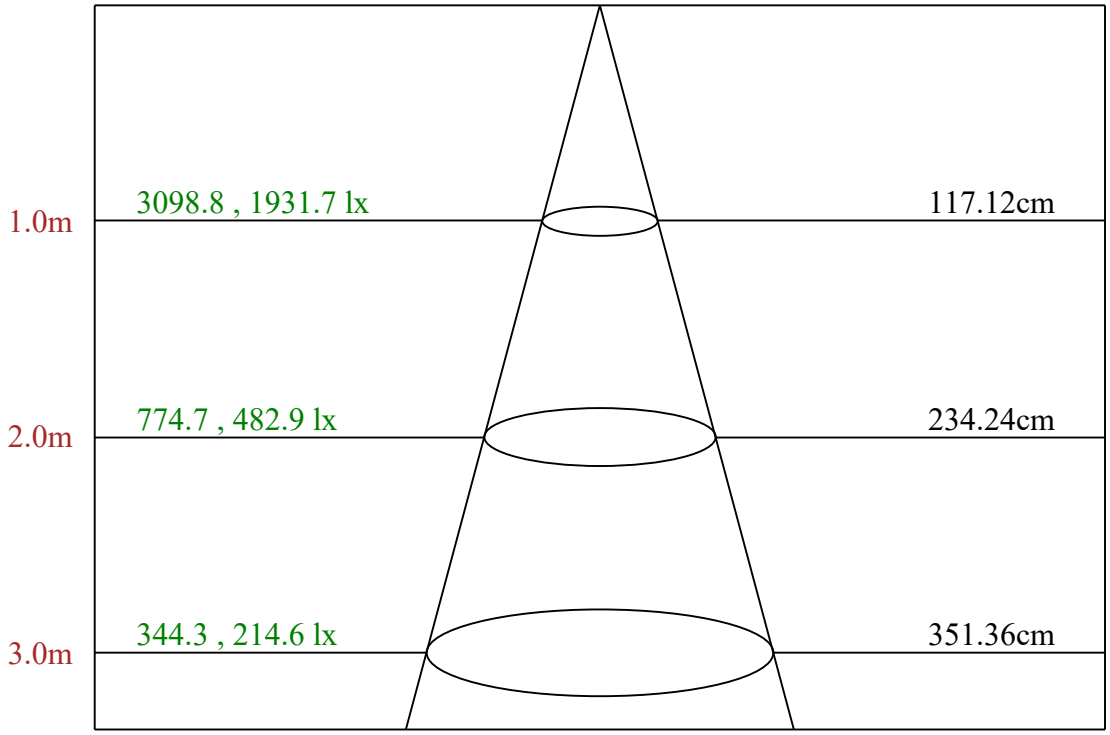
:C90/270Left:33.1 Right:27.3

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/10/22
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.28

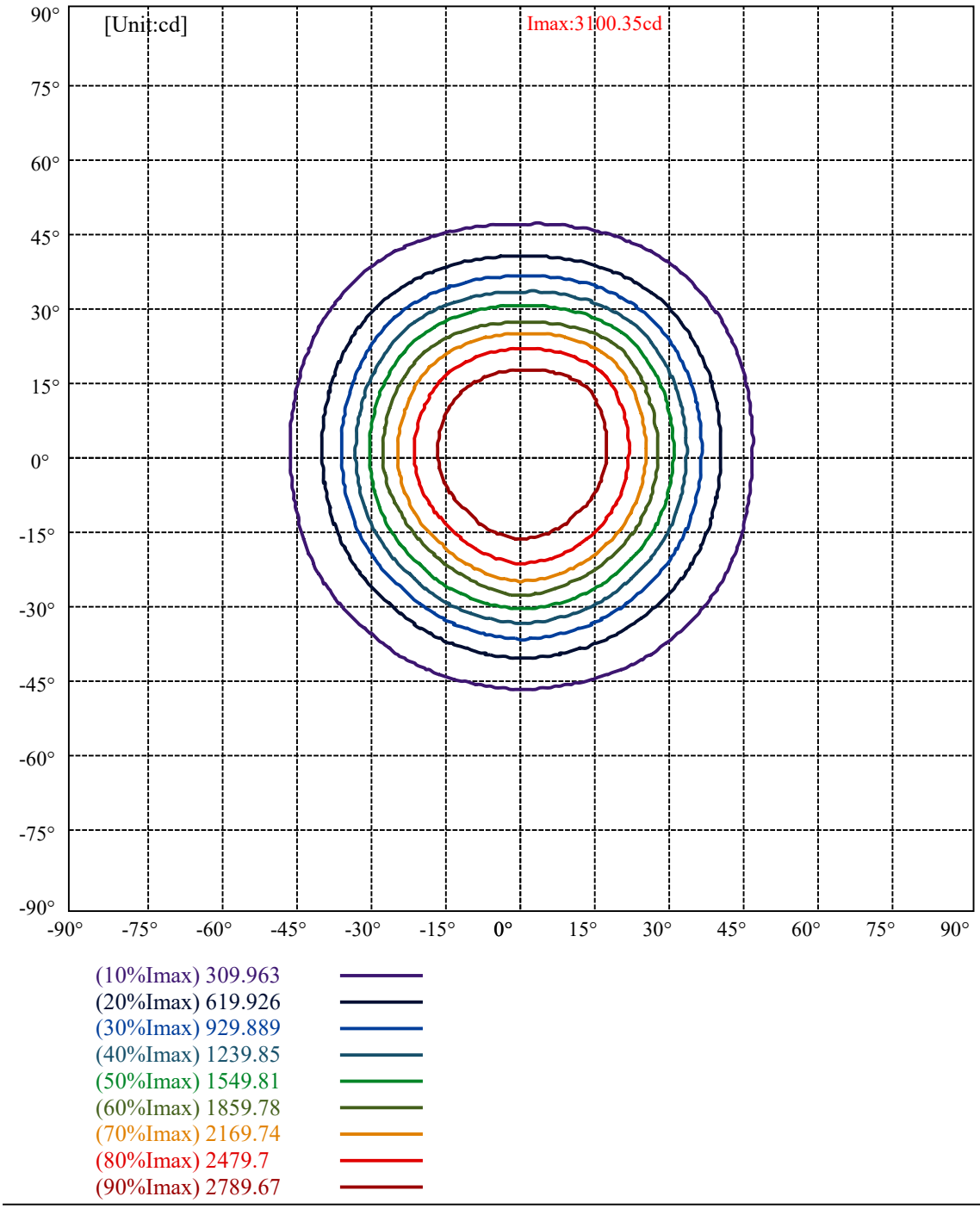
Lux distance Curve



Max , Ave

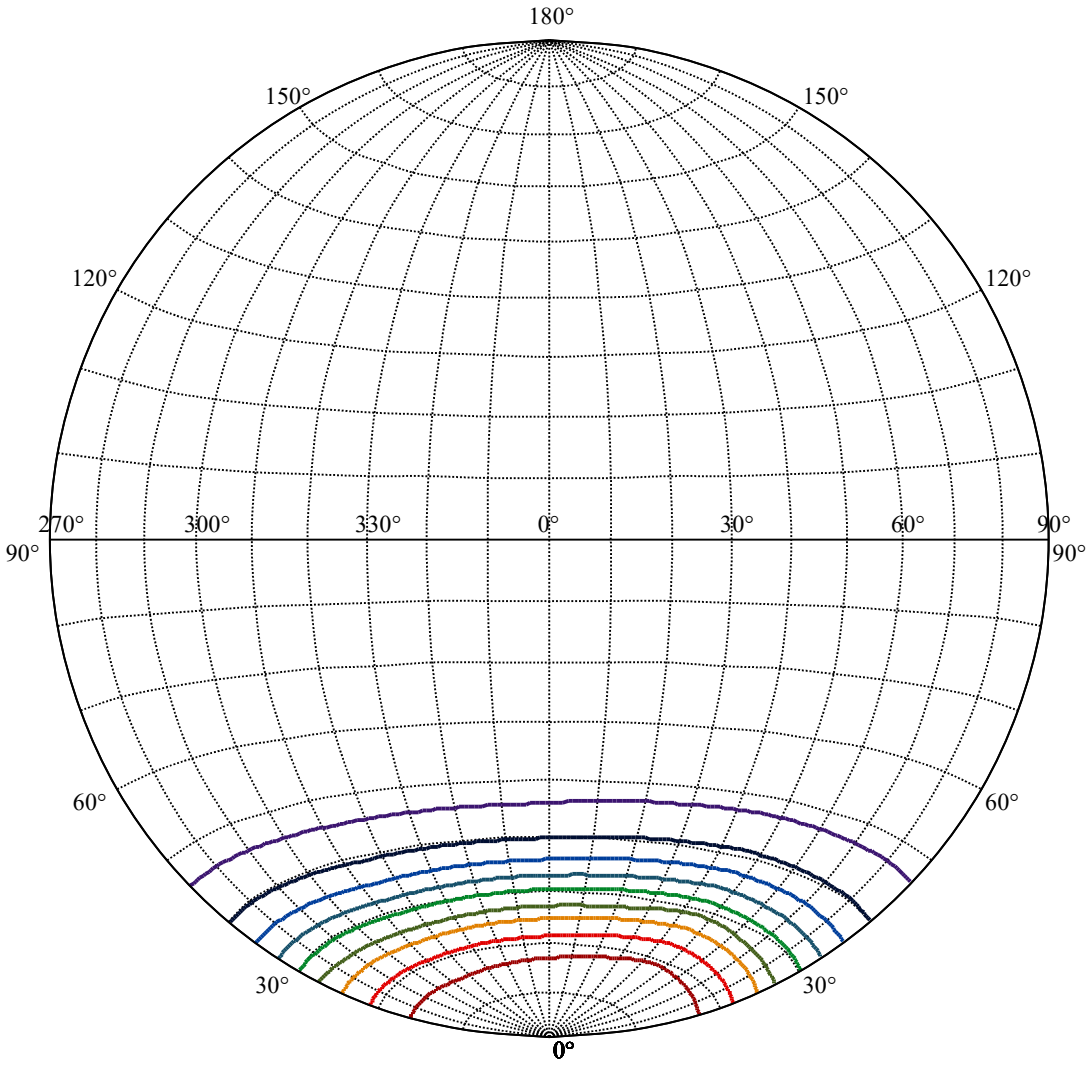
Beam angle of C45 plane 60.71

Equipment: GMS1980	Date: 2025/10/22	Operator: 杨泽全
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 9.28



Equipment: GMS1980
Temperature(°C): 25.0
Date: 2025/10/22
Humidity(%): 60.0%
Operator: 杨泽全
Distance(m): 9.28

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:3100.35

(10%Imax) 310.026
(20%Imax) 620.052
(30%Imax) 930.079
(40%Imax) 1240.1
(50%Imax) 1550.13
(60%Imax) 1860.16
(70%Imax) 2170.18
(80%Imax) 2480.21
(90%Imax) 2790.24

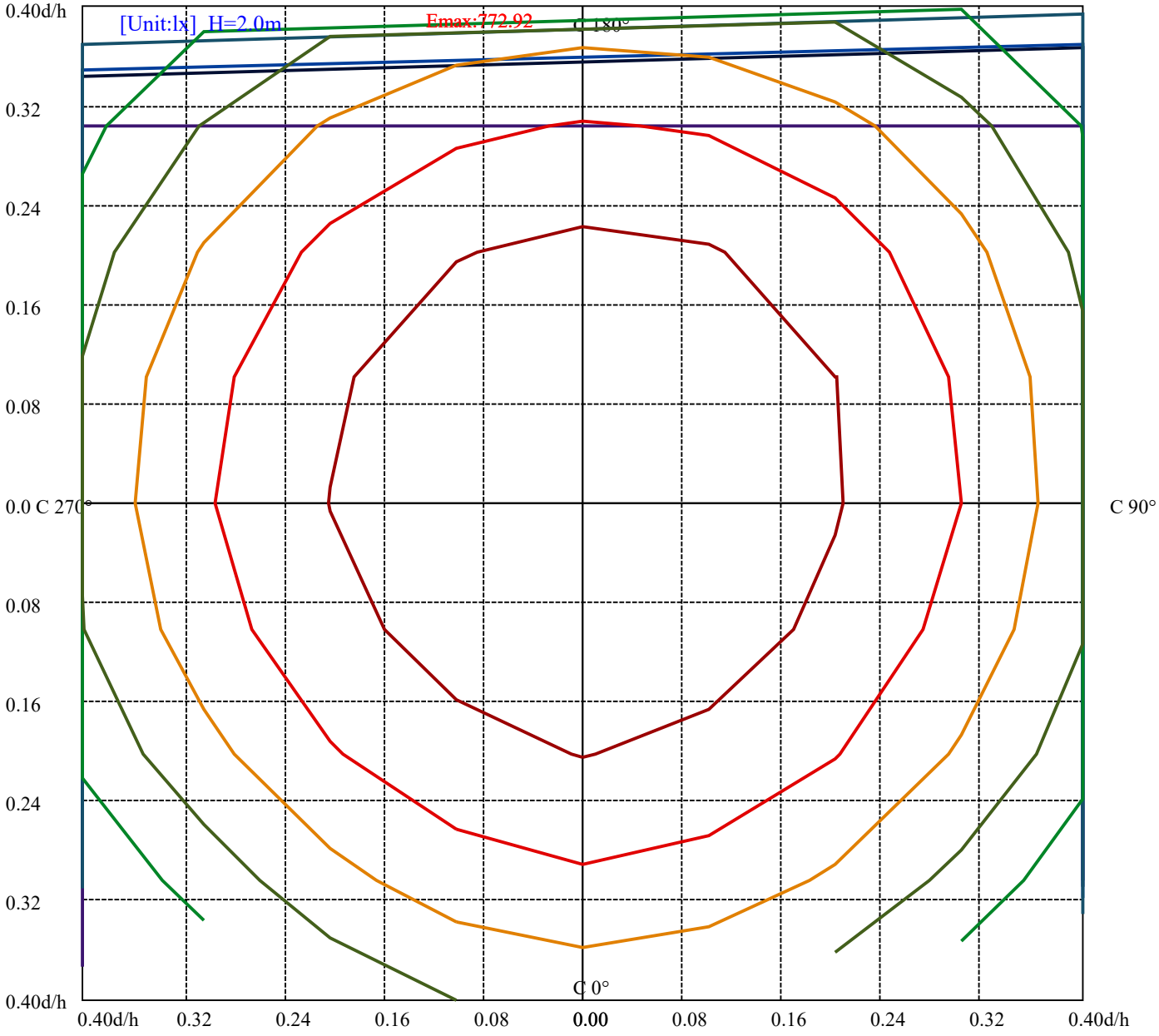
Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/10/22
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.28

NT Nata 62-0100

ISO illuminance diagram



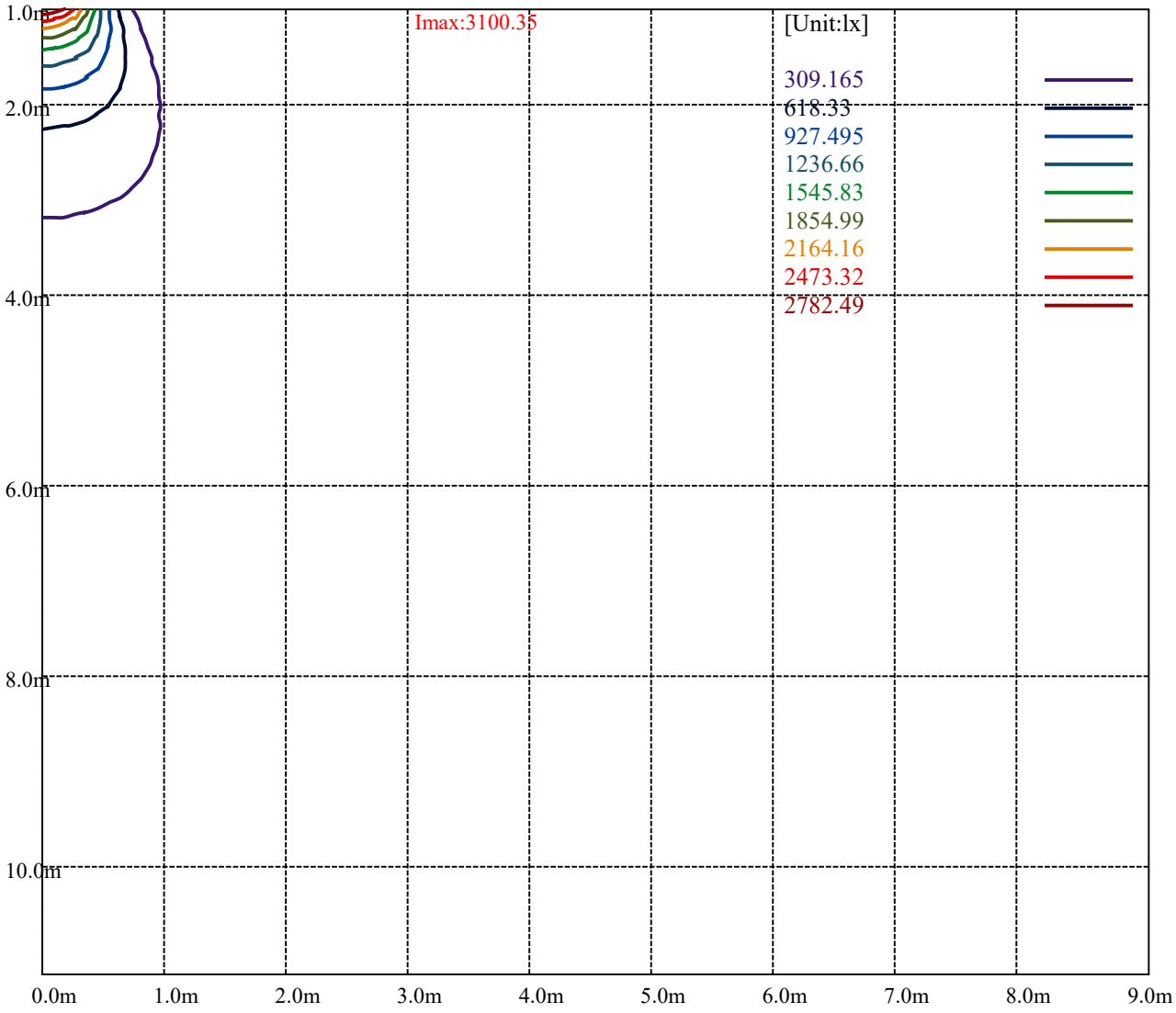
(10%Emax) 77.29125
(20%Emax) 154.5825
(30%Emax) 231.8737
(40%Emax) 309.165
(50%Emax) 386.4575
(60%Emax) 463.7475
(70%Emax) 541.04
(80%Emax) 618.33
(90%Emax) 695.6225

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/10/22
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.28

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/10/22
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.28

Luminance Limitting Curve(no luminous side)

Luminance Table

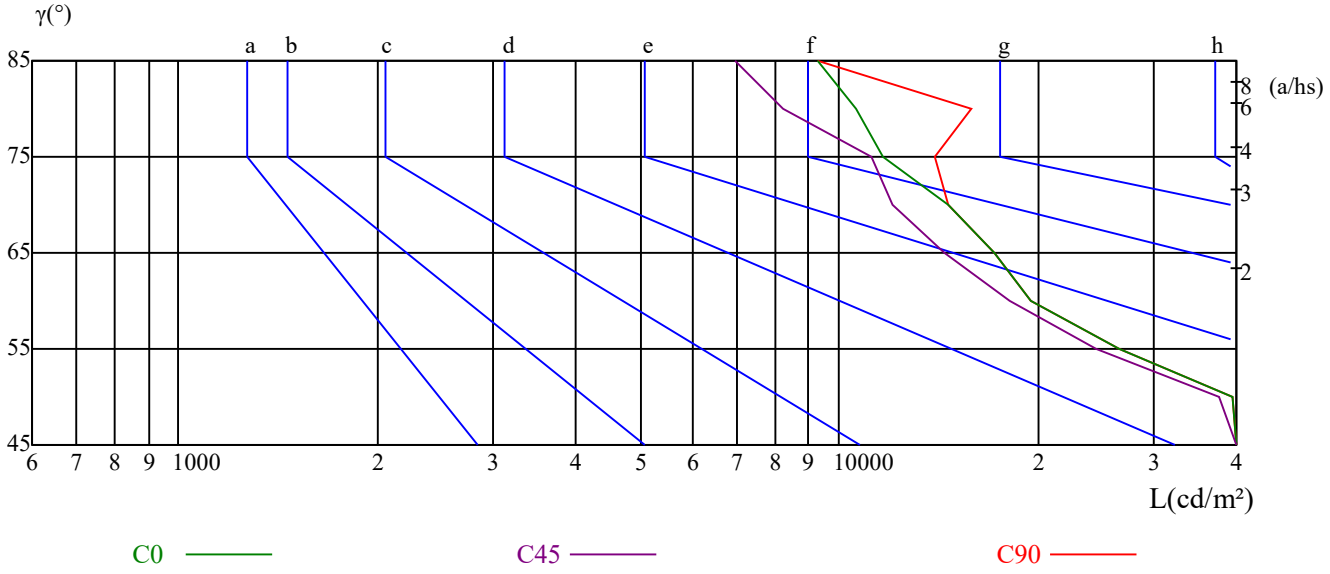
γ	45	50	55	60	65	70	75	80	85
C0	61983	39436	26597	19482	17195	14639	11646	10605	9311
C45	69011	37608	24588	18193	14451	12043	11210	8244	6953
C90	63495	39436	26597	19482	17195	14639	13976	15907	9311

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
31751	31751	30869	31684	34564	34564	42767	51321	42767

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

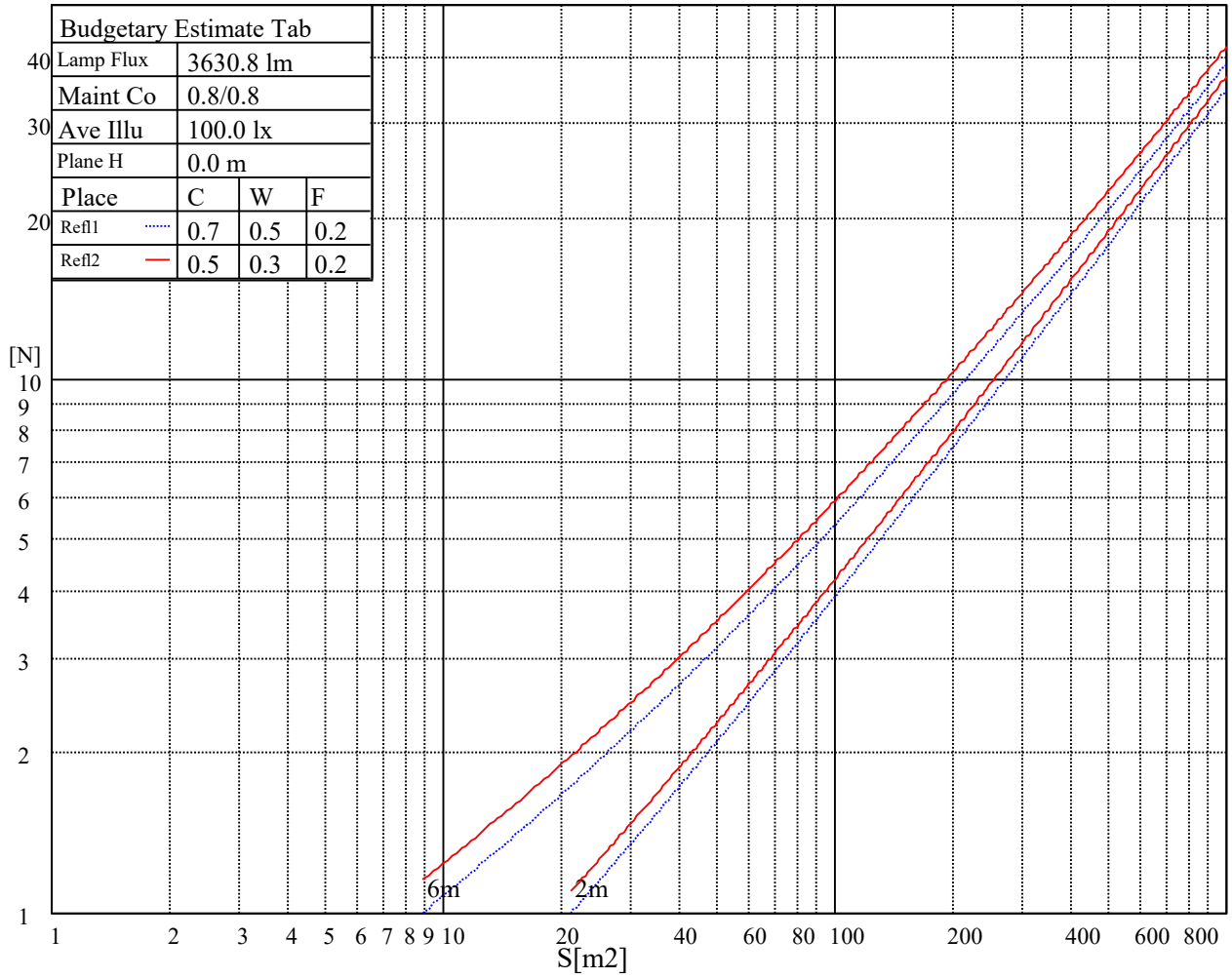


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	22.62	23.75	22.98	24.07	24.38	22.64	23.77	23.00	24.09	24.40
	3H	22.86	23.87	23.24	24.20	24.55	22.88	23.89	23.26	24.23	24.57
	4H	22.99	23.93	23.39	24.29	24.65	23.05	23.99	23.44	24.34	24.71
	6H	23.15	24.01	23.57	24.39	24.79	23.40	24.27	23.82	24.64	25.04
	8H	23.20	24.02	23.61	24.41	24.81	23.46	24.29	23.88	24.67	25.08
	12H	23.22	24.00	23.64	24.40	24.81	23.48	24.27	23.90	24.66	25.08
4H	2H	22.57	23.51	22.96	23.86	24.22	22.58	23.52	22.98	23.88	24.24
	3H	22.91	23.70	23.33	24.09	24.51	22.93	23.72	23.35	24.11	24.53
	4H	23.19	23.87	23.62	24.29	24.74	23.26	23.94	23.69	24.36	24.81
	6H	23.41	24.02	23.88	24.47	24.92	23.73	24.33	24.20	24.78	25.23
	8H	23.53	24.10	24.02	24.55	25.02	23.86	24.43	24.35	24.88	25.35
	12H	23.62	24.15	24.11	24.60	25.11	23.95	24.47	24.43	24.92	25.43
8H	4H	23.19	23.75	23.67	24.21	24.68	23.26	23.83	23.75	24.28	24.75
	6H	23.51	23.98	24.01	24.45	24.96	23.83	24.30	24.33	24.78	25.28
	8H	23.75	24.15	24.28	24.67	25.16	24.08	24.48	24.61	25.00	25.49
	12H	23.90	24.22	24.44	24.74	25.26	24.22	24.54	24.76	25.06	25.58
12H	4H	23.18	23.70	23.67	24.15	24.67	23.25	23.77	23.73	24.22	24.73
	6H	23.57	23.97	24.10	24.49	24.98	23.88	24.28	24.41	24.80	25.30
	8H	23.80	24.12	24.34	24.64	25.16	24.12	24.44	24.66	24.96	25.47

Variation with the observer position at spacings:		
S = 1.0H	2.3/-2.7	2.4/-2.7
S = 1.5H	3.9/-2.7	4.2/-3.0
S = 2.0H	5.5/-2.3	5.9/-2.8
Standard tables:	BK2	BK2
Uncorrected UGR	5.7	5.6

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table



Equipment: GMS1980
Temperature(°C): 25.0

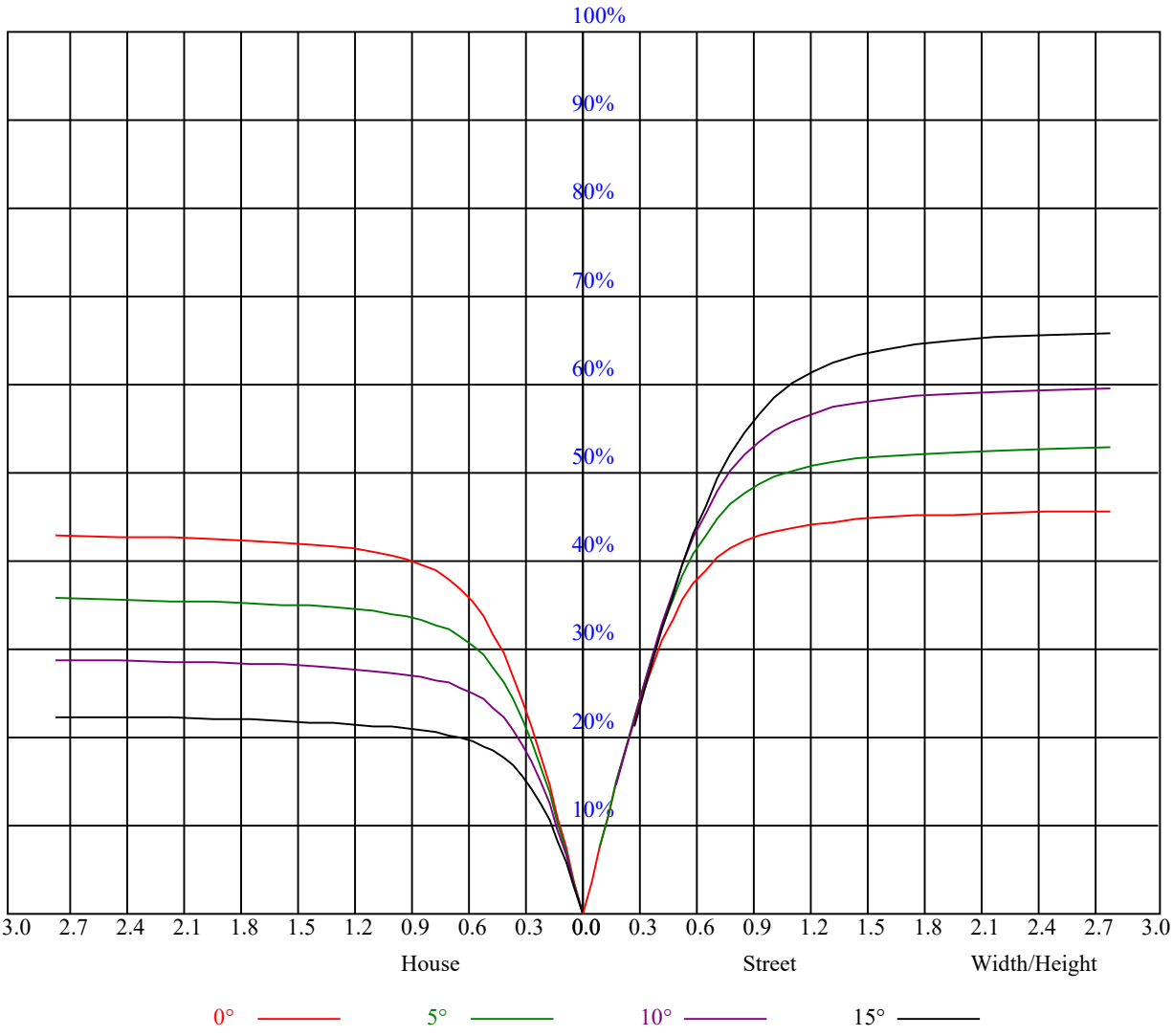
Date: 2025/10/22
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.28

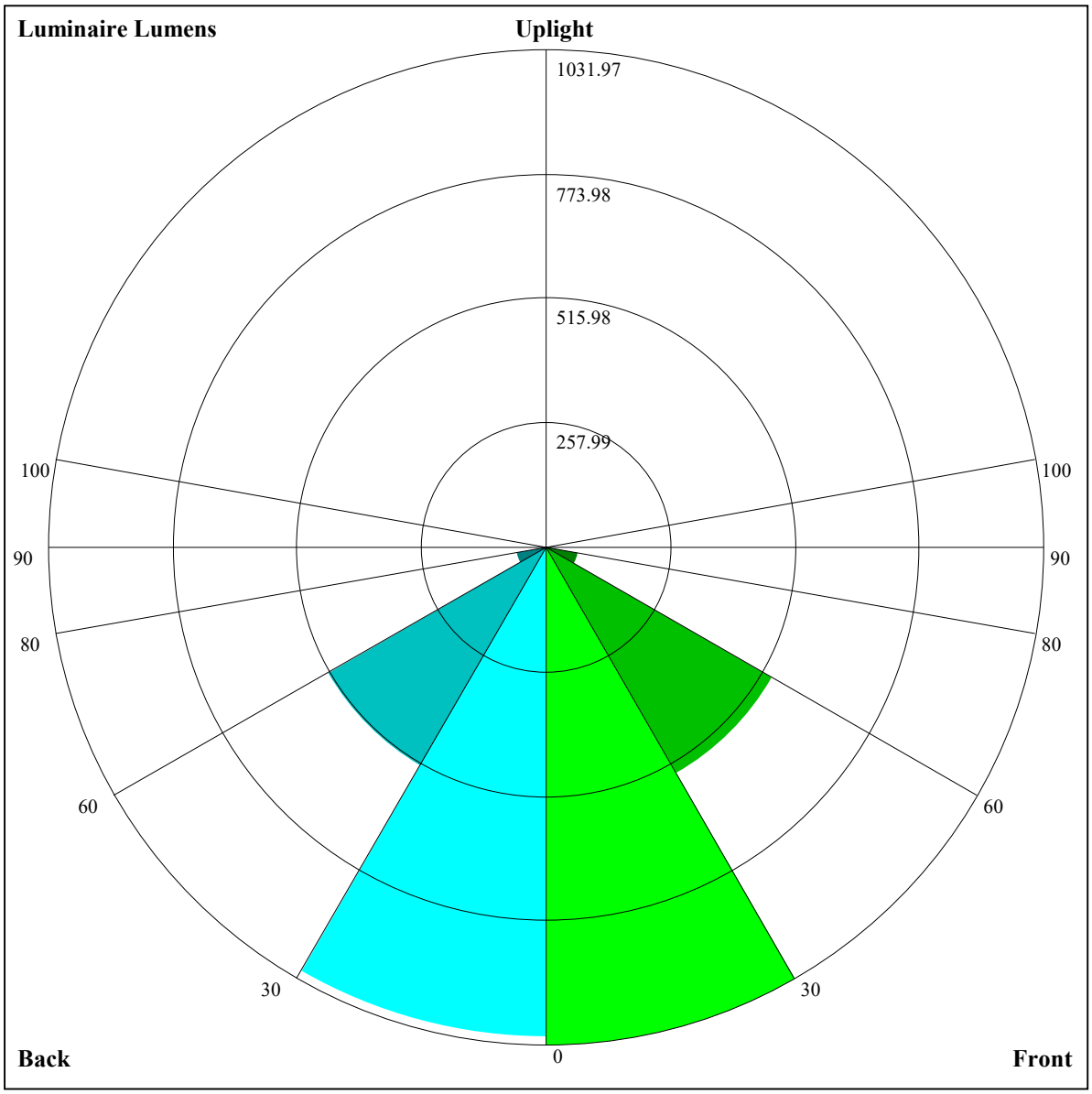
Utilization factor table for indoor luminaire

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	1.07	1.07	1.07	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	0.98	0.96	0.93	0.96	0.94	0.92	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.82
2	0.90	0.86	0.83	0.89	0.85	0.82	0.86	0.83	0.80	0.83	0.80	0.78	0.80	0.78	0.76	0.75
3	0.83	0.78	0.74	0.82	0.77	0.74	0.80	0.76	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.69
4	0.77	0.72	0.67	0.76	0.71	0.67	0.74	0.70	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.63
5	0.72	0.66	0.62	0.71	0.65	0.61	0.69	0.64	0.61	0.68	0.63	0.60	0.66	0.63	0.60	0.58
6	0.67	0.61	0.57	0.66	0.61	0.57	0.65	0.60	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.54
7	0.63	0.57	0.52	0.62	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.51	0.50
8	0.59	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.48	0.56	0.52	0.48	0.55	0.51	0.48	0.47
9	0.55	0.49	0.46	0.55	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.44
10	0.52	0.46	0.43	0.52	0.46	0.43	0.51	0.46	0.42	0.50	0.46	0.42	0.49	0.45	0.42	0.41

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2025/10/22	Operator: 杨泽全
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 9.28



Luminaire Lumens:
FL=1031.97,FM=539.85,FH=66,FVH=13.34
BL=1017,BM=522.26,BH=63.02,BVH=12.65
UL=0,UH=0

BUG Rating:B3-U0-G1

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	3091.74	3096.90	3095.18	3083.99	3079.68	3065.04	3057.29	3046.96	3034.04
45.0	3089.15	3088.29	3100.35	3099.49	3094.32	3091.74	3088.29	3090.01	3079.68
90.0	3087.43	3086.57	3095.18	3099.49	3094.32	3093.46	3088.29	3081.40	3073.65
135.0	3083.12	3089.15	3088.29	3092.60	3089.15	3081.40	3076.24	3061.60	3047.82
180.0	3091.74	3088.29	3088.29	3072.79	3064.18	3053.84	3037.48	3023.70	3016.81
225.0	3083.99	3077.10	3064.18	3052.12	3044.37	3033.18	3018.54	3009.92	2987.53
270.0	3087.43	3085.71	3077.10	3070.21	3060.73	3049.54	3043.51	3024.56	3017.67
315.0	3083.12	3081.40	3073.65	3066.76	3055.57	3044.37	3034.90	3020.26	3006.48
360.0	3091.74	3096.90	3095.18	3083.99	3079.68	3065.04	3057.29	3046.96	3034.04

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3017.67	3002.17	2983.23	2959.98	2938.45	2912.61	2871.27	2840.27	2795.49
45.0	3071.07	3066.76	3058.15	3038.34	3020.26	3005.62	2984.09	2950.50	2908.30
90.0	3064.18	3052.98	3034.04	3015.95	2987.53	2957.39	2915.19	2876.44	2827.35
135.0	3035.76	3027.15	3010.79	2983.23	2956.53	2938.45	2903.14	2860.94	2811.85
180.0	2998.73	2978.92	2961.70	2941.89	2916.06	2888.50	2855.77	2805.82	2763.63
225.0	2972.89	2941.03	2927.25	2888.50	2873.86	2835.10	2789.46	2742.10	2668.90
270.0	3001.31	2981.51	2966.86	2934.14	2916.92	2882.47	2849.74	2794.63	2749.85
315.0	2994.42	2969.45	2951.36	2928.11	2894.53	2866.11	2819.60	2777.40	2727.46
360.0	3017.67	3002.17	2983.23	2959.98	2938.45	2912.61	2871.27	2840.27	2795.49

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2726.59	2669.76	2603.45	2526.80	2434.65	2347.67	2258.97	2164.24	2047.98
45.0	2862.66	2805.82	2729.18	2660.28	2587.94	2506.99	2418.29	2314.09	2217.63
90.0	2748.99	2684.40	2614.64	2545.75	2439.82	2351.98	2233.14	2139.27	2036.79
135.0	2766.21	2697.31	2637.89	2553.50	2476.85	2393.32	2288.25	2192.66	2095.35
180.0	2708.51	2632.73	2573.30	2496.66	2395.90	2311.50	2220.22	2103.10	2002.34
225.0	2608.61	2531.97	2439.82	2358.87	2251.22	2158.21	2072.09	1973.92	1713.76
270.0	2695.59	2637.03	2555.22	2482.02	2407.10	2327.01	2216.77	2128.07	1997.17
315.0	2657.70	2599.14	2525.08	2452.74	2370.06	2265.00	2171.99	2075.54	1947.22
360.0	2726.59	2669.76	2603.45	2526.80	2434.65	2347.67	2258.97	2164.24	2047.98

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1942.92	1704.46	1704.46	1601.20	1490.97	1354.21	1248.72	1118.68	1022.23
45.0	2114.29	1979.95	1874.88	1770.68	1632.03	1518.35	1385.73	1278.94	1178.19
90.0	1836.99	1691.28	1691.28	1583.63	1451.78	1341.81	1241.91	1143.74	1027.56
135.0	1993.73	1863.69	1756.04	1650.98	1546.77	1442.57	1315.11	1212.63	1093.79
180.0	1898.14	1795.65	1663.89	1551.94	1443.43	1335.78	1206.60	1104.99	982.70
225.0	1713.76	1634.10	1526.28	1416.56	1284.46	1183.61	1081.91	965.73	879.96
270.0	1899.86	1800.82	1669.06	1559.69	1452.04	1347.84	1223.83	1128.24	1030.06
315.0	1706.44	1706.44	1594.57	1484.16	1378.58	1246.05	1146.75	1053.31	941.10
360.0	1942.92	1704.46	1704.46	1601.20	1490.97	1354.21	1248.72	1118.68	1022.23

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	931.03	845.17	744.84	674.13	608.60	549.35	482.78	435.50	393.22
45.0	1078.29	961.17	872.47	788.93	710.56	628.75	565.88	509.91	459.10
90.0	937.83	857.48	780.06	689.46	626.68	552.11	499.66	451.52	397.61
135.0	1003.37	914.66	815.63	739.84	668.36	590.86	535.74	481.49	434.12
180.0	890.55	809.60	717.45	647.70	583.97	528.85	464.26	439.29	439.29
225.0	797.71	703.59	634.78	558.74	501.64	451.26	408.46	360.58	327.94
270.0	939.64	836.30	758.79	685.59	608.08	542.63	478.04	441.01	441.01
315.0	859.55	781.96	709.19	626.17	564.68	510.17	460.56	405.53	367.38
360.0	931.03	845.17	744.84	674.13	608.60	549.35	482.78	435.50	393.22

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	354.03	312.70	283.42	252.41	231.06	211.33	190.41	175.85	162.76
45.0	435.85	435.85	324.84	286.95	262.14	233.29	213.40	196.01	180.33
90.0	359.11	323.89	293.75	260.59	237.51	216.24	194.28	177.92	164.06
135.0	434.12	340.94	307.10	279.20	249.14	226.84	205.91	185.07	170.26
180.0	338.70	297.97	272.74	247.93	228.47	204.36	189.29	171.20	158.03
225.0	299.69	273.60	245.95	226.32	207.89	188.00	173.18	159.92	145.02
270.0	341.80	310.89	284.28	259.65	233.38	214.09	197.30	181.28	164.06
315.0	333.28	296.59	270.76	242.42	222.36	204.79	188.34	170.17	156.91
360.0	354.03	312.70	283.42	252.41	231.06	211.33	190.41	175.85	162.76

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	150.02	136.24	126.68	117.47	109.63	101.02	94.99	89.82	84.40
45.0	163.19	150.36	139.17	129.01	117.47	109.20	102.05	96.02	89.22
90.0	151.22	136.67	126.42	117.29	107.39	100.59	93.18	88.10	84.05
135.0	156.22	141.84	130.73	121.08	110.32	102.57	96.37	90.94	85.08
180.0	145.80	133.66	123.84	114.88	106.44	99.47	94.30	89.13	84.65
225.0	134.34	124.61	114.11	106.70	100.16	94.47	88.27	84.05	80.18
270.0	151.40	140.20	129.95	118.84	111.18	102.57	96.71	91.46	85.86
315.0	145.02	134.34	122.80	114.62	107.30	101.10	94.04	89.30	84.22
360.0	150.02	136.24	126.68	117.47	109.63	101.02	94.99	89.82	84.40

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	80.26	77.08	73.29	70.53	67.86	64.67	62.01	59.68	57.10
45.0	84.48	79.32	76.21	73.03	68.89	66.40	63.90	60.71	58.30
90.0	80.43	76.39	73.72	70.96	68.72	66.23	63.12	59.94	56.84
135.0	80.69	77.42	74.15	70.62	67.78	64.59	62.09	59.51	56.49
180.0	80.09	76.65	73.63	70.01	67.43	64.85	61.75	59.34	56.24
225.0	76.73	73.03	70.27	67.52	64.50	62.26	59.34	56.92	54.34
270.0	81.98	78.37	75.27	71.65	69.15	66.74	64.33	61.66	59.42
315.0	80.52	77.25	73.80	71.05	69.15	66.74	63.81	60.97	58.30
360.0	80.26	77.08	73.29	70.53	67.86	64.67	62.01	59.68	57.10

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	54.17	51.84	49.52	47.28	44.44	42.37	39.79	37.81	36.17
45.0	56.06	53.65	50.64	48.57	46.42	44.18	41.77	39.70	37.38
90.0	53.57	51.07	50.29	54.00	59.25	63.12	62.52	55.55	47.80
135.0	54.00	51.67	48.66	46.50	44.26	42.28	39.61	37.72	35.74
180.0	53.74	51.41	49.26	48.83	48.83	47.54	45.04	41.60	38.75
225.0	51.41	49.26	47.02	44.87	43.06	40.82	39.27	37.46	35.39
270.0	57.27	54.34	52.19	49.60	47.62	45.56	43.23	41.25	39.27
315.0	55.29	55.98	62.61	69.41	78.02	82.85	81.47	70.44	59.42
360.0	54.17	51.84	49.52	47.28	44.44	42.37	39.79	37.81	36.17

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	34.19	31.69	28.51	25.49	21.87	18.52	15.85	13.87	12.83
45.0	35.65	34.02	30.49	27.64	24.37	21.01	17.91	15.33	13.52
90.0	40.22	33.50	30.31	26.01	21.70	18.00	15.24	13.35	12.57
135.0	34.02	31.61	28.68	25.15	21.87	18.86	16.19	14.12	13.09
180.0	36.00	33.07	29.54	25.23	21.53	17.91	15.16	13.78	13.18
225.0	32.38	29.11	25.49	22.30	19.20	15.93	14.12	13.26	12.83
270.0	37.38	34.02	30.40	27.13	23.42	19.98	16.71	14.98	13.78
315.0	46.59	36.69	30.66	26.87	20.75	17.91	15.33	13.61	13.00
360.0	34.19	31.69	28.51	25.49	21.87	18.52	15.85	13.87	12.83

Intensity data(cd)

C/γ(°)	90.0
0.0	12.31
45.0	12.57
90.0	12.40
135.0	12.49
180.0	12.92
225.0	12.66
270.0	13.35
315.0	12.75
360.0	12.31