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

Nata

Client: NT
LumCAT: 62-0096
Luminaire: 92.70.412.00
Report No:
Ballast type: DC
Test No: 20250904-C002
LampCAT: CITIZEN CLU038
Lamp flux(lm): 3799.2
Number of Lamps: 1
Length(mm): 75
Phm Type: C

Voltage(V): 35.750
Current(A): 0.704
Power (W): 25.160
PF: 0.000
Width(mm): 75
Height(mm): 35

Photometric Results

Lumens(lm): 3567.32, Efficiency(%): 93.90% , Luminous Efficacy(lm/W): 141.79
Central intensity(cd): 18864.110, Maximum intensity(cd): 18914.790
Angle of maximum intensity: C=135.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=22.5
[C90/270]Total=22.3
Field angle(10%Imax): [C0/180]Total=38.9
[C90/270]Total=39.1
Maximum s/h(1/2): C0_180=0.37 C90_270=0.37
Maximum s/h(1/4): C0_180=0.38 C90_270=0.37
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.91%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.871%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	18836.666	0.000	0	0.00%	0.00%
1.0	18746.932	17.983	17.983	0.47%	0.50%
2.0	18284.861	53.152	71.135	1.40%	1.99%
3.0	17640.801	85.922	157.057	2.26%	4.40%
4.0	17143.258	116.433	273.49	3.06%	7.67%
5.0	16426.227	144.414	417.904	3.80%	11.71%
6.0	15484.329	167.698	585.603	4.41%	16.42%
7.0	14357.051	185.225	770.828	4.88%	21.61%
8.0	13188.707	197.140	967.968	5.19%	27.13%
9.0	12040.843	204.472	1172.439	5.38%	32.87%
10.0	10814.435	206.832	1379.271	5.44%	38.66%
11.0	9635.955	204.341	1583.613	5.38%	44.39%
12.0	8488.830	198.130	1781.742	5.22%	49.95%
13.0	7359.863	188.084	1969.826	4.95%	55.22%
14.0	6300.784	174.855	2144.682	4.60%	60.12%
15.0	5365.961	160.166	2304.848	4.22%	64.61%
16.0	4436.732	143.637	2448.485	3.78%	68.64%
17.0	3827.804	128.701	2577.186	3.39%	72.24%
18.0	3250.620	116.708	2693.893	3.07%	75.52%
19.0	2241.402	95.550	2789.443	2.52%	78.19%
20.0	1881.270	75.456	2864.9	1.99%	80.31%
21.0	1568.498	66.243	2931.142	1.74%	82.17%
22.0	1278.201	57.206	2988.348	1.51%	83.77%
23.0	1050.623	48.865	3037.213	1.29%	85.14%
24.0	850.737	41.571	3078.783	1.09%	86.31%
25.0	688.634	35.002	3113.785	0.92%	87.29%
26.0	561.264	29.504	3143.289	0.78%	88.11%
27.0	457.731	24.930	3168.219	0.66%	88.81%
28.0	393.513	21.552	3189.771	0.57%	89.42%
29.0	362.813	19.788	3209.559	0.52%	89.97%
30.0	277.111	17.278	3226.836	0.45%	90.46%
31.0	223.650	13.935	3240.772	0.37%	90.85%
32.0	196.962	12.050	3252.822	0.32%	91.18%
33.0	175.141	10.962	3263.784	0.29%	91.49%
34.0	159.801	10.136	3273.921	0.27%	91.78%
35.0	146.806	9.522	3283.443	0.25%	92.04%
36.0	136.481	9.020	3292.463	0.24%	92.30%
37.0	127.391	8.606	3301.069	0.23%	92.54%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	119.611	8.245	3309.313	0.22%	92.77%
39.0	113.192	7.946	3317.259	0.21%	92.99%
40.0	107.449	7.695	3324.955	0.20%	93.21%
41.0	102.593	7.480	3332.434	0.20%	93.42%
42.0	98.001	7.288	3339.722	0.19%	93.62%
43.0	93.968	7.111	3346.833	0.19%	93.82%
44.0	90.294	6.955	3353.788	0.18%	94.01%
45.0	87.180	6.821	3360.608	0.18%	94.21%
46.0	84.277	6.705	3367.313	0.18%	94.39%
47.0	81.585	6.597	3373.91	0.17%	94.58%
48.0	79.547	6.514	3380.424	0.17%	94.76%
49.0	77.742	6.459	3386.883	0.17%	94.94%
50.0	76.243	6.420	3393.303	0.17%	95.12%
51.0	75.018	6.400	3399.703	0.17%	95.30%
52.0	73.931	6.392	3406.094	0.17%	95.48%
53.0	72.917	6.388	3412.482	0.17%	95.66%
54.0	71.904	6.383	3418.865	0.17%	95.84%
55.0	70.785	6.369	3425.235	0.17%	96.02%
56.0	69.592	6.343	3431.578	0.17%	96.19%
57.0	68.114	6.296	3437.874	0.17%	96.37%
58.0	66.615	6.230	3444.105	0.16%	96.55%
59.0	65.010	6.154	3450.258	0.16%	96.72%
60.0	63.205	6.057	3456.315	0.16%	96.89%
61.0	61.273	5.940	3462.256	0.16%	97.05%
62.0	59.320	5.811	3468.067	0.15%	97.22%
63.0	57.219	5.668	3473.734	0.15%	97.38%
64.0	54.960	5.505	3479.239	0.14%	97.53%
65.0	52.806	5.333	3484.572	0.14%	97.68%
66.0	50.441	5.151	3489.724	0.14%	97.82%
67.0	48.045	4.952	3494.676	0.13%	97.96%
68.0	45.490	4.738	3499.414	0.12%	98.10%
69.0	43.009	4.515	3503.929	0.12%	98.22%
70.0	40.518	4.290	3508.219	0.11%	98.34%
71.0	38.047	4.061	3512.279	0.11%	98.46%
72.0	35.598	3.829	3516.109	0.10%	98.56%
73.0	34.131	3.646	3519.755	0.10%	98.67%
74.0	34.258	3.595	3523.35	0.09%	98.77%
75.0	35.377	3.679	3527.03	0.10%	98.87%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	36.443	3.812	3530.842	0.10%	98.98%
77.0	36.960	3.914	3534.756	0.10%	99.09%
78.0	35.630	3.886	3538.641	0.10%	99.20%
79.0	32.410	3.656	3542.297	0.10%	99.30%
80.0	29.623	3.344	3545.641	0.09%	99.39%
81.0	26.551	3.038	3548.679	0.08%	99.48%
82.0	23.679	2.724	3551.403	0.07%	99.55%
83.0	21.959	2.481	3553.884	0.07%	99.62%
84.0	20.301	2.302	3556.186	0.06%	99.69%
85.0	18.982	2.144	3558.33	0.06%	99.75%
86.0	17.504	1.994	3560.325	0.05%	99.80%
87.0	16.458	1.859	3562.183	0.05%	99.86%
88.0	15.730	1.763	3563.946	0.05%	99.91%
89.0	15.287	1.700	3565.647	0.04%	99.95%
90.0	15.276	1.676	3567.322	0.04%	100.00%

Zonal flux distribution table

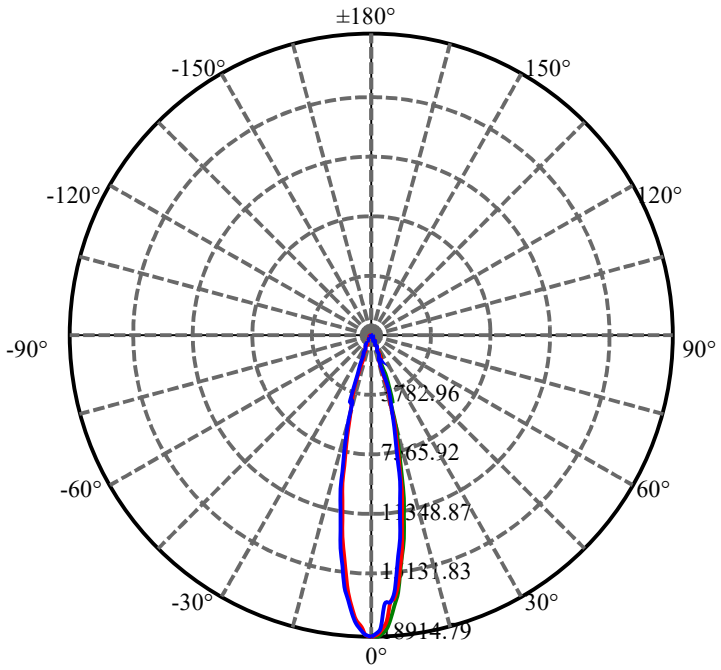
ZONAL LUMEN SUMMARY

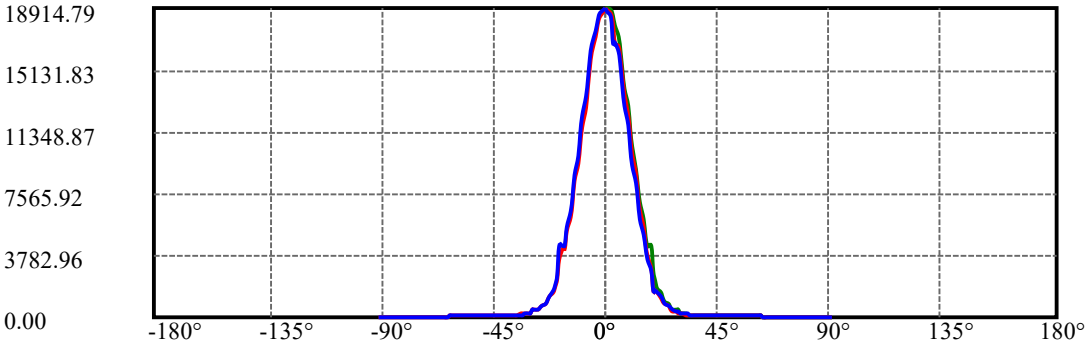
Zone	Lumens	%Lamp	%Fixt
0-30	3226.84	84.93%	90.46%
0-40	3324.95	87.52%	93.21%
0-60	3456.32	90.98%	96.89%
0-90	3565.65	93.85%	99.95%
0-120	3565.65	93.85%	99.95%
0-180	3567.32	93.90%	100.00%
60-90	109.33	2.88%	3.06%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-19.85	2853.86	75.12%	80.00%

ZONAL LUMEN SUMMARY

0-10	1379.27
10-20	1485.63
20-30	361.94
30-40	98.12
40-50	68.35
50-60	63.01
60-70	51.90
70-80	37.42
80-90	20.01
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]





C135(Max):

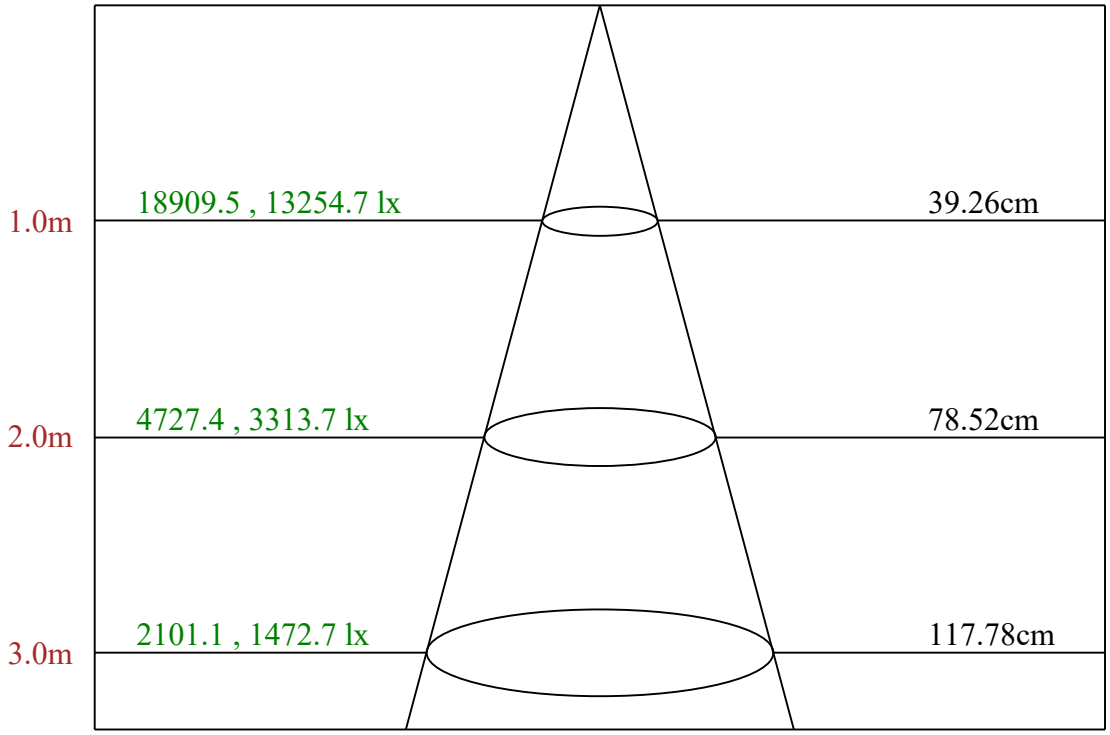
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:20.1 Right:18.8
:C90/270Left:20.3 Right:18.8

Beam Angle(50%Imax):C0/180Left:11.0 Right:11.5
:C90/270Left:11.4 Right:10.9

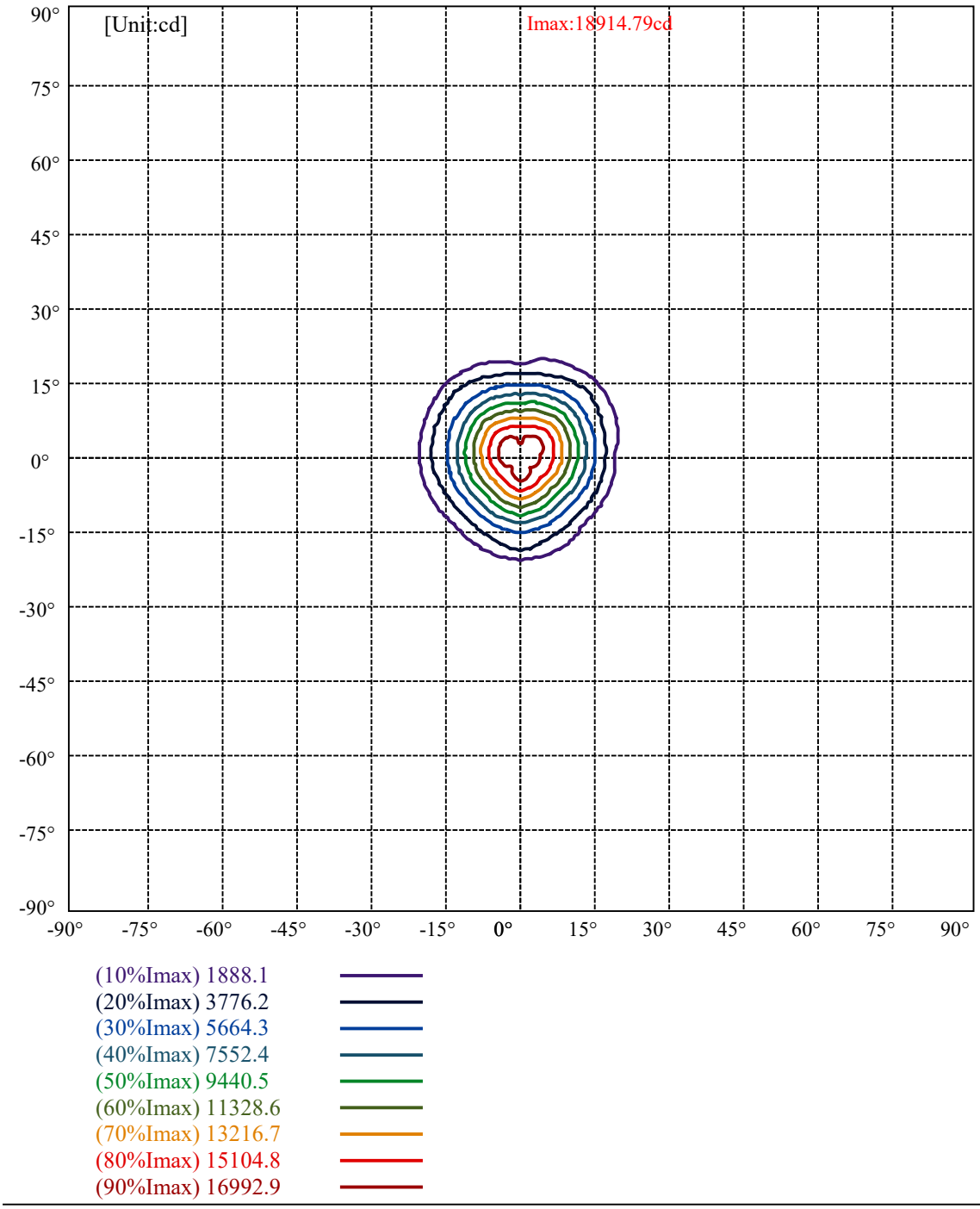
Lux distance Curve



Max , Ave

Beam angle of C135 plane 22.21

ISO-Intensity(V-H)



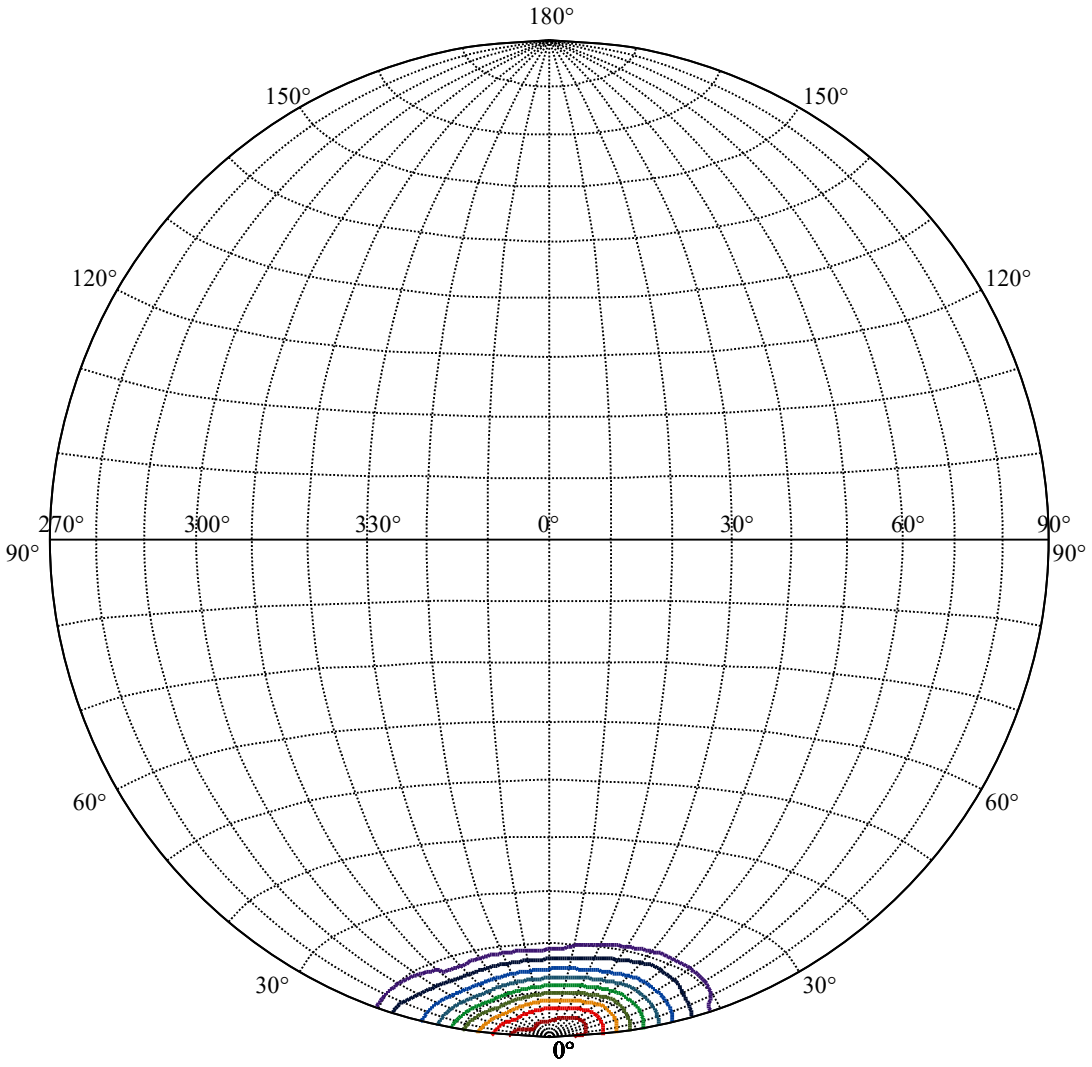
(10%Imax) 1888.1
(20%Imax) 3776.2
(30%Imax) 5664.3
(40%Imax) 7552.4
(50%Imax) 9440.5
(60%Imax) 11328.6
(70%Imax) 13216.7
(80%Imax) 15104.8
(90%Imax) 16992.9

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/9/4
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.19

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:18914.79

(10%Imax) 1891.82
(20%Imax) 3783.63
(30%Imax) 5675.45
(40%Imax) 7567.27
(50%Imax) 9459.08
(60%Imax) 11350.9
(70%Imax) 13242.7
(80%Imax) 15134.5
(90%Imax) 17026.3

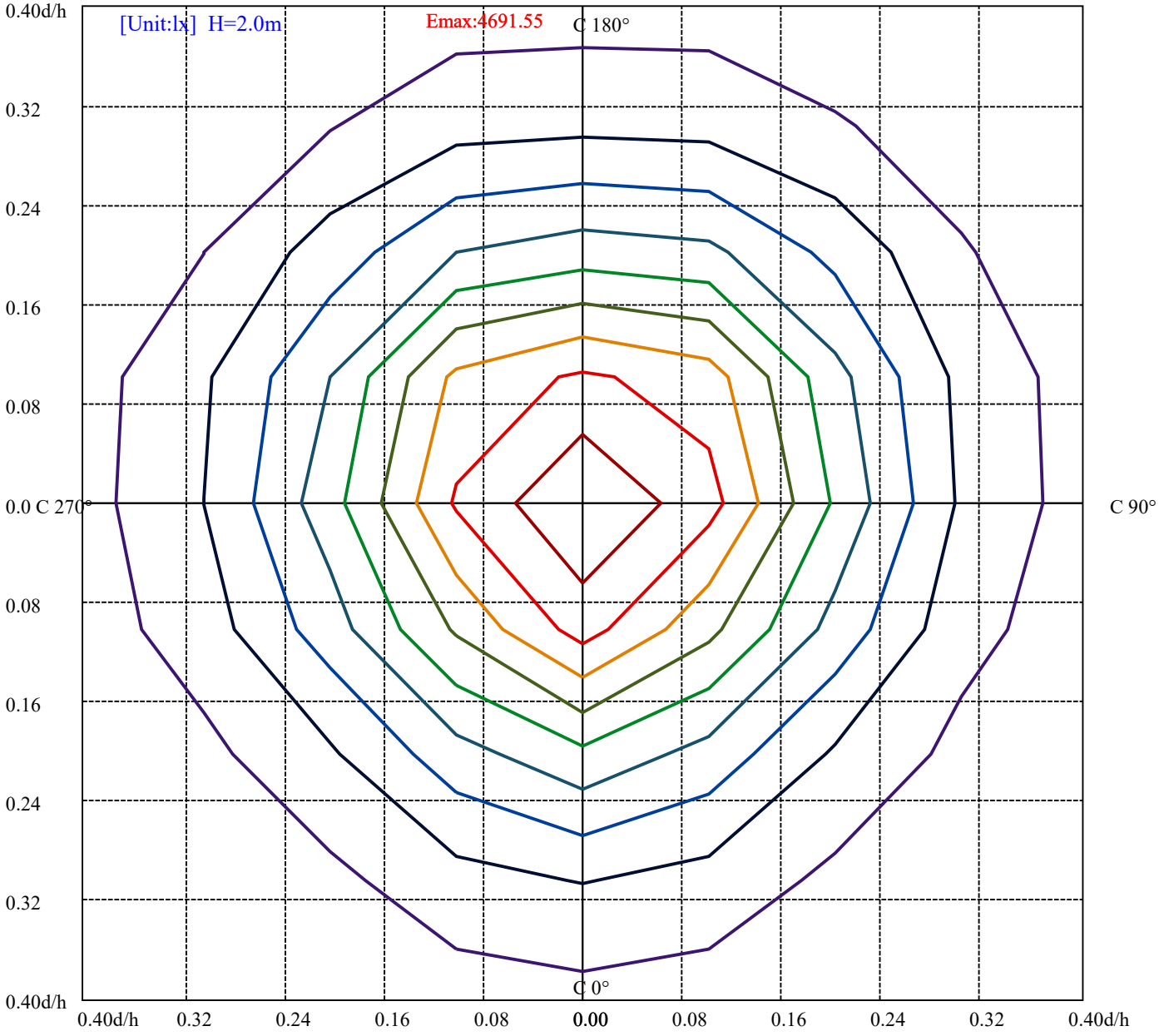
Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/9/4
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.19

NT Nata 62-0096

ISO illuminance diagram

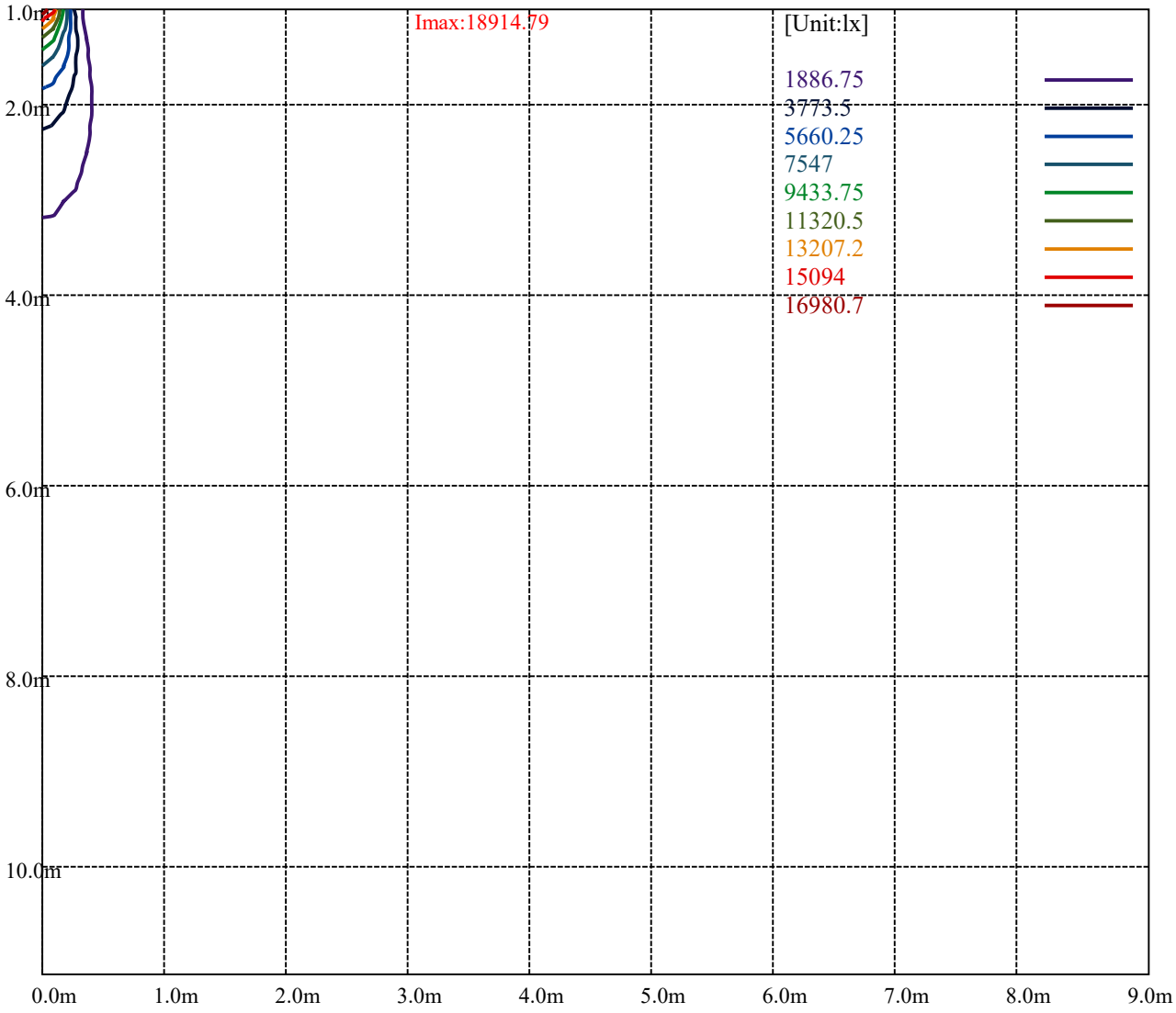


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/9/4
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.19

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/9/4
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.19

Luminance Limitting Curve(no luminous side)

Luminance Table

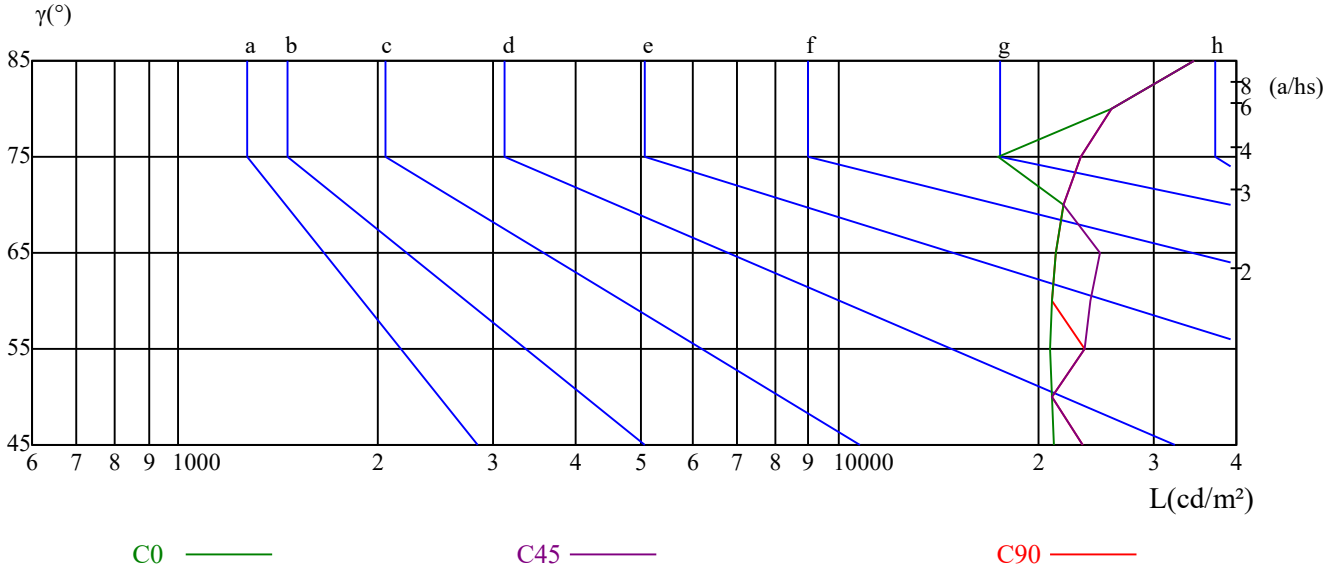
γ	45	50	55	60	65	70	75	80	85
C0	21234	21022	20941	21020	21316	21950	17403	25939	34454
C45	23357	21022	23559	24023	24869	21950	23205	25939	34454
C90	23357	21022	23559	21020	21316	21950	23205	25939	34454

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
21316	21316	22204	26105	20304	24655	34454	34454	34454

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

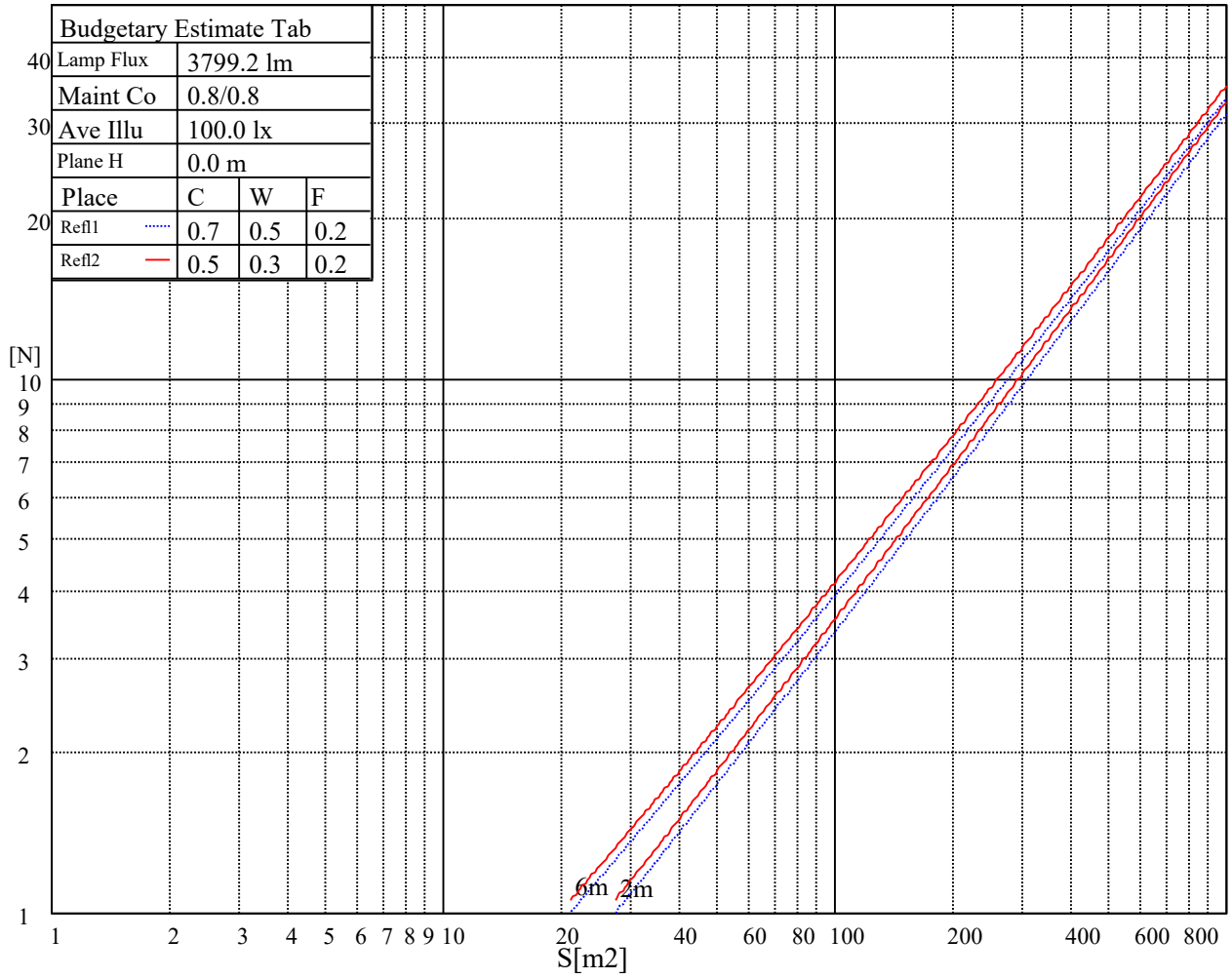


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	16.68	17.66	17.04	17.97	18.29	16.83	17.82	17.20	18.13	18.45
	3H	18.44	19.32	18.83	19.66	20.00	18.49	19.37	18.87	19.70	20.05
	4H	19.08	19.89	19.48	20.25	20.62	19.15	19.97	19.55	20.32	20.69
	6H	19.79	20.53	20.20	20.91	21.31	20.09	20.84	20.51	21.22	21.62
	8H	20.17	20.89	20.59	21.27	21.68	20.53	21.25	20.95	21.63	22.04
	12H	20.58	21.26	21.01	21.66	22.07	20.99	21.67	21.42	22.06	22.48
4H	2H	17.39	18.21	17.79	18.56	18.93	17.51	18.32	17.91	18.68	19.04
	3H	19.26	19.95	19.69	20.34	20.76	19.29	19.97	19.71	20.37	20.79
	4H	20.07	20.66	20.51	21.09	21.54	20.14	20.74	20.58	21.16	21.61
	6H	20.90	21.43	21.37	21.88	22.33	21.21	21.74	21.68	22.19	22.64
	8H	21.41	21.90	21.89	22.36	22.83	21.77	22.26	22.25	22.72	23.19
	12H	21.95	22.40	22.44	22.85	23.37	22.35	22.80	22.84	23.25	23.77
8H	4H	20.38	20.87	20.86	21.33	21.80	20.45	20.94	20.94	21.40	21.87
	6H	21.47	21.87	21.97	22.35	22.86	21.76	22.16	22.26	22.64	23.15
	8H	22.19	22.53	22.73	23.05	23.55	22.53	22.87	23.06	23.39	23.89
	12H	22.93	23.19	23.47	23.70	24.23	23.31	23.57	23.85	24.09	24.61
12H	4H	20.45	20.90	20.94	21.35	21.87	20.51	20.96	21.00	21.41	21.93
	6H	21.69	22.02	22.22	22.55	23.04	21.95	22.29	22.48	22.81	23.31
	8H	22.47	22.73	23.01	23.25	23.77	22.78	23.04	23.32	23.56	24.08

Variation with the observer position at spacings:		
S = 1.0H	0.3/-0.7	0.3/-0.7
S = 1.5H	0.6/-0.8	0.6/-0.8
S = 2.0H	0.4/-0.6	0.5/-0.6
Standard tables:	BKBF	BKBF
Uncorrected UGR	6.1	5.9

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

Budgetary Estimate Table



Equipment: GMS1980
Temperature(°C): 25.0

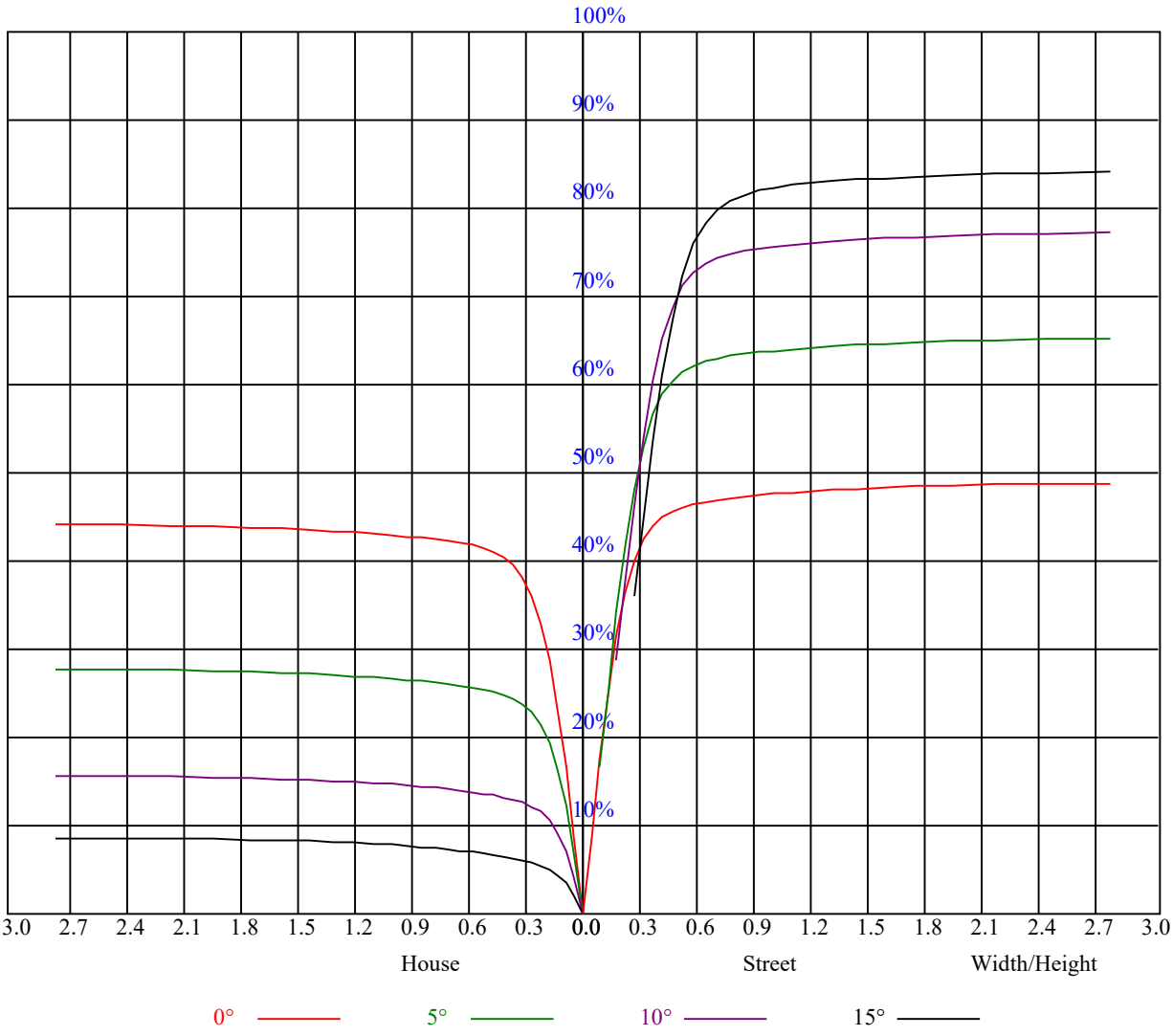
Date: 2025/9/4
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.19

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	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
2	1.00	0.97	0.94	0.98	0.95	0.93	0.95	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.87	0.86
3	0.95	0.92	0.89	0.94	0.91	0.88	0.92	0.89	0.87	0.90	0.87	0.85	0.88	0.86	0.84	0.83
4	0.91	0.88	0.84	0.90	0.87	0.84	0.89	0.85	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.80
5	0.88	0.84	0.81	0.87	0.83	0.81	0.86	0.82	0.80	0.84	0.82	0.79	0.83	0.81	0.79	0.78
6	0.85	0.81	0.78	0.84	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
7	0.82	0.78	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
8	0.80	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
9	0.78	0.74	0.71	0.77	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.75	0.73	0.71	0.70
10	0.76	0.72	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.74	0.71	0.69	0.68

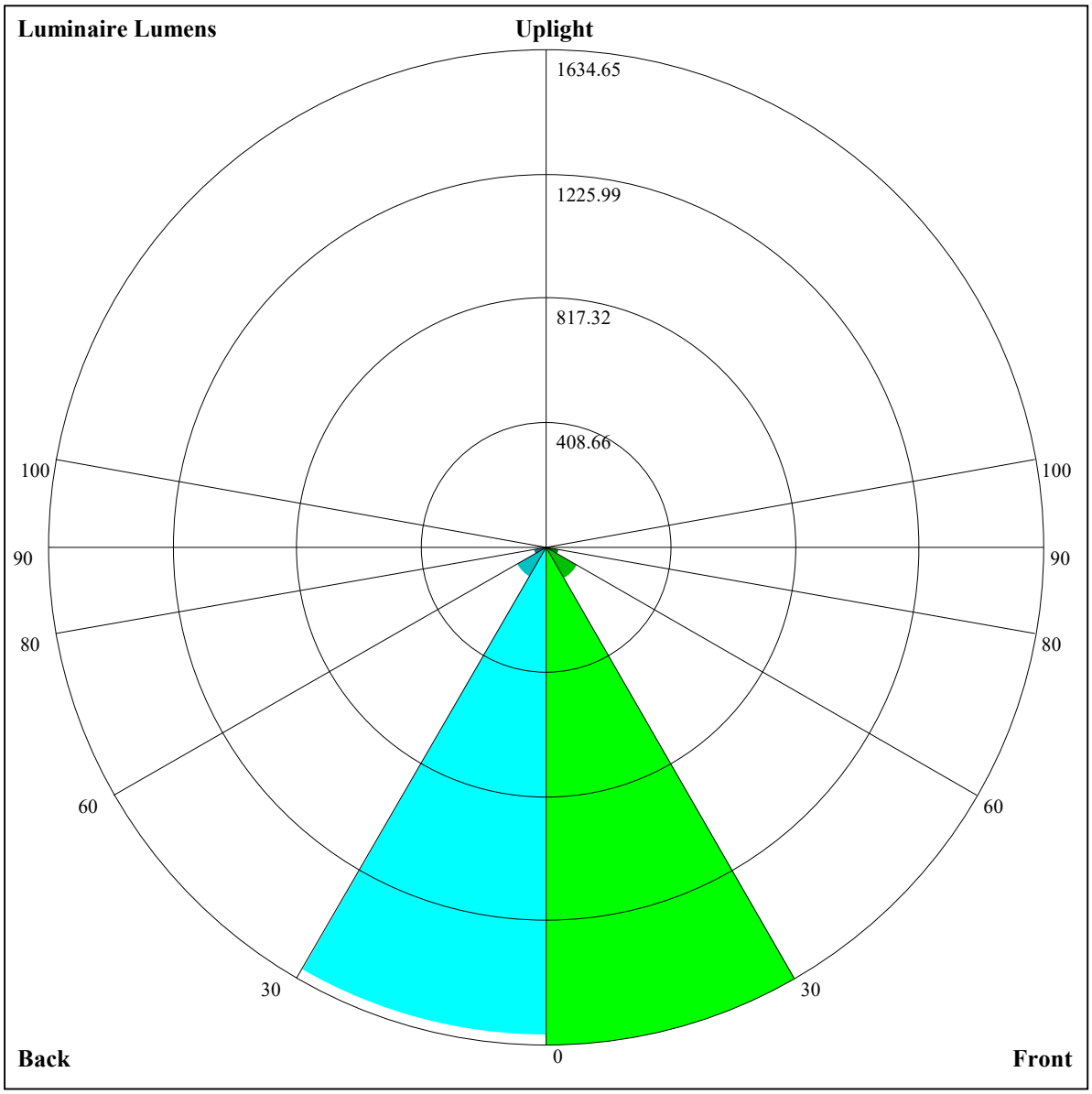
Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/9/4
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 9.19



Luminaire Lumens:
FL=1634.65,FM=117.01,FH=44.92,FVH=10.94
BL=1604.03,BM=114.6,BH=43.57,BVH=10.84
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	18864.11	18788.10	18509.40	17918.21	16816.14	16611.75	15728.34	14740.21	13666.77
45.0	18762.77	18847.22	18762.77	18509.40	17968.88	17377.69	16609.14	15697.01	14506.18
90.0	18881.01	18720.54	18357.38	16839.79	16839.79	16231.70	15319.58	13995.30	12933.69
135.0	18838.78	18914.79	18762.77	18458.73	17816.86	17107.43	16271.31	15063.59	14033.23
180.0	18864.11	18737.43	18315.15	17850.64	17183.44	16169.96	15215.61	14134.57	12774.83
225.0	18762.77	18475.62	16822.90	16822.90	16376.97	15468.22	14188.71	13069.67	11939.64
270.0	18881.01	18830.33	18602.30	18061.78	17479.03	16710.48	15815.25	14539.96	13475.82
315.0	18838.78	18661.42	18146.24	16664.96	16664.96	15732.57	14726.69	13616.10	12179.50
360.0	18864.11	18788.10	18509.40	17918.21	16816.14	16611.75	15728.34	14740.21	13666.77

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	12283.38	11141.53	9994.62	8866.29	7541.17	6522.63	5556.45	4486.39	3712.77
45.0	13458.92	12360.99	11229.28	9852.65	8746.27	7699.02	6449.07	5511.61	4439.01
90.0	11804.51	10375.52	9278.43	8204.15	7175.47	5960.15	5075.05	4245.69	3532.88
135.0	12926.85	11558.66	10426.95	9058.76	8028.40	7006.48	6043.68	4937.30	4312.33
180.0	11651.56	10519.85	9421.92	8349.33	7065.60	6136.58	5258.24	4278.55	4278.55
225.0	10799.49	9440.59	8368.84	7351.99	6384.12	5283.66	4488.93	3767.67	2959.43
270.0	12386.33	11229.28	9835.76	8746.27	7454.10	6465.96	5553.83	4515.02	4312.33
315.0	11015.69	9889.05	8531.84	7481.21	6483.78	5331.80	4502.44	3751.62	3075.13
360.0	12283.38	11141.53	9994.62	8866.29	7541.17	6522.63	5556.45	4486.39	3712.77

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2891.86	1625.95	1625.95	1546.98	1194.04	975.30	794.65	647.27	499.30
45.0	4439.01	3633.39	2516.03	1955.24	1611.51	1330.27	1098.01	862.38	709.52
90.0	2787.14	1656.18	1656.18	1507.29	1256.62	1043.29	823.36	683.00	567.54
135.0	4312.33	2825.14	2192.56	1793.93	1475.53	1212.87	951.06	781.30	635.19
180.0	3521.90	2336.98	1923.99	1507.63	1241.59	1024.54	850.56	670.67	556.65
225.0	2059.12	1619.11	1539.72	1271.06	1048.35	826.15	681.14	559.94	441.03
270.0	4312.33	2553.19	1992.40	1639.38	1348.00	1114.90	879.27	723.87	594.66
315.0	1681.27	1681.27	1603.31	1326.47	1049.96	877.67	727.84	580.64	486.21
360.0	2891.86	1625.95	1625.95	1546.98	1194.04	975.30	794.65	647.27	499.30

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	409.11	336.05	281.49	228.88	197.71	173.64	152.70	139.77	129.30
45.0	581.14	476.42	433.34	433.34	268.91	226.09	200.92	181.50	163.17
90.0	450.57	378.19	322.12	277.52	233.35	207.85	187.49	172.21	156.58
135.0	490.77	441.79	441.79	259.03	219.33	188.76	160.30	143.91	131.50
180.0	463.75	425.74	425.74	272.96	241.12	217.14	192.05	176.85	163.84
225.0	367.05	308.69	263.50	227.78	195.18	176.43	161.99	147.63	138.34
270.0	489.93	446.01	446.01	265.45	217.31	190.20	166.46	150.67	139.35
315.0	409.53	335.21	288.50	251.93	216.29	195.60	179.22	165.87	152.36
360.0	409.11	336.05	281.49	228.88	197.71	173.64	152.70	139.77	129.30

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	119.25	112.58	105.32	100.42	96.03	92.39	89.27	86.06	83.61
45.0	151.43	139.27	130.91	123.31	116.80	111.48	105.74	101.18	96.87
90.0	145.60	136.82	127.44	120.10	112.66	107.51	102.87	98.48	93.75
135.0	121.95	112.41	106.16	100.67	96.11	91.55	88.17	84.88	82.01
180.0	151.01	141.89	132.17	125.16	118.49	112.66	106.16	101.35	96.96
225.0	129.81	121.03	114.69	107.85	103.21	98.81	95.10	90.62	87.75
270.0	129.47	120.27	114.27	108.61	103.54	98.56	94.84	91.63	88.51
315.0	143.32	134.88	125.92	119.42	112.75	107.77	101.85	97.55	92.90
360.0	119.25	112.58	105.32	100.42	96.03	92.39	89.27	86.06	83.61

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	81.25	78.88	76.94	75.50	74.15	73.22	72.55	71.62	70.94
45.0	92.48	89.02	85.89	83.02	81.33	79.39	77.53	76.43	75.67
90.0	90.96	88.09	84.79	82.60	80.66	79.14	77.70	76.26	75.00
135.0	79.73	77.62	75.93	74.66	73.14	72.21	71.62	71.20	70.69
180.0	93.16	88.59	85.64	83.02	80.32	77.87	76.18	74.66	73.39
225.0	85.13	82.68	80.23	78.46	77.11	75.67	74.49	73.73	72.38
270.0	85.39	82.94	80.32	78.71	76.69	75.59	74.74	73.81	72.72
315.0	89.35	86.40	82.94	80.40	78.54	76.86	75.33	73.73	72.55
360.0	81.25	78.88	76.94	75.50	74.15	73.22	72.55	71.62	70.94

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	70.52	69.68	68.75	67.65	66.47	64.69	63.26	61.48	59.79
45.0	74.41	73.39	72.38	70.86	69.25	67.73	66.13	64.27	61.74
90.0	73.56	72.46	70.94	69.09	67.40	65.45	63.09	61.15	59.03
135.0	70.01	69.25	68.58	67.31	66.38	65.12	63.17	61.40	59.29
180.0	72.29	70.77	69.51	68.07	66.30	64.61	63.09	61.40	59.71
225.0	71.28	70.10	68.32	66.80	65.20	63.51	61.15	59.29	57.35
270.0	71.96	71.11	69.93	68.32	66.97	65.45	63.85	61.57	59.79
315.0	71.20	69.51	68.32	66.80	64.95	63.51	61.91	59.63	57.85
360.0	70.52	69.68	68.75	67.65	66.47	64.69	63.26	61.48	59.79

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	57.60	55.57	53.04	50.93	48.56	45.61	43.07	40.54	38.17
45.0	59.71	57.85	55.15	53.04	50.34	47.97	45.61	43.33	40.45
90.0	56.92	54.14	52.02	49.83	47.55	44.59	42.31	40.03	37.16
135.0	57.35	55.66	53.88	51.18	48.90	46.62	44.09	41.13	38.85
180.0	57.26	55.15	53.12	50.50	48.22	45.94	43.16	40.88	38.01
225.0	55.23	52.70	50.59	48.31	45.44	43.16	40.37	38.01	35.89
270.0	57.77	55.23	53.21	50.59	48.31	45.86	43.58	40.62	38.34
315.0	55.91	53.38	51.43	49.15	47.04	44.17	41.89	39.61	37.50
360.0	57.60	55.57	53.04	50.93	48.56	45.61	43.07	40.54	38.17

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	35.13	32.85	30.49	28.88	27.45	26.35	25.34	24.32	23.48
45.0	38.17	35.81	33.87	31.00	29.73	28.72	27.87	26.94	26.27
90.0	35.05	32.26	30.40	30.57	31.67	32.35	30.91	29.14	27.79
135.0	36.49	34.29	31.33	29.14	27.70	26.69	25.59	24.24	23.31
180.0	35.89	34.37	37.84	46.96	53.46	57.18	56.50	48.06	41.21
225.0	32.94	30.83	29.56	28.46	27.11	26.10	25.34	24.91	24.32
270.0	35.98	33.70	30.83	29.31	28.29	26.94	26.01	25.17	24.58
315.0	35.13	38.93	49.74	58.70	66.13	71.37	67.48	56.50	46.03
360.0	35.13	32.85	30.49	28.88	27.45	26.35	25.34	24.32	23.48

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	22.97	21.28	19.85	18.83	17.57	16.30	15.29	14.53	13.77
45.0	25.84	25.08	22.97	21.96	20.69	19.09	17.99	16.98	16.30
90.0	25.51	23.73	22.55	20.86	19.42	17.57	16.72	15.96	15.54
135.0	22.55	21.71	20.35	19.34	18.24	17.14	15.96	14.70	13.94
180.0	35.47	28.63	25.00	23.06	21.11	18.66	17.31	16.98	16.72
225.0	22.89	21.37	20.19	19.09	17.82	16.55	15.71	15.20	15.12
270.0	24.07	22.13	20.78	19.76	18.66	17.48	16.30	15.62	15.12
315.0	33.11	25.51	23.99	19.51	18.33	17.23	16.38	15.88	15.79
360.0	22.97	21.28	19.85	18.83	17.57	16.30	15.29	14.53	13.77

Intensity data(cd)

C/γ(°)	90.0
0.0	13.51
45.0	15.88
90.0	15.54
135.0	13.60
180.0	17.82
225.0	15.12
270.0	14.95
315.0	15.79
360.0	13.51