NATA LIGHTING CO.,LTD
www.nata.cn
Email:info@nata.cn
Tel:+86 0750-377 0000(10 lines) Fax:+86 0750-377 1111
Address:380JinOu Road,Gaoxin Zone,Jiang Men City,Guangdong,China

Nata

Client: NT
LumCAT: 3-2998-LM2
Luminaire: BJB47.360.2100
Report No: 20260513-B006
Ballast type: DC

Test No: 20260513-C006	Voltage(V): 51.050
LampCAT: Bridgelux V22 GEN8	Current(A): 0.953
Lamp flux(lm): 8107.8	Power (W): 48.650
Number of Lamps: 1	PF: 0.000
Length(mm): 92	Width(mm): 92
Phm Type: C	Height(mm): 49

Photometric Results

Lumens(lm): 7795.18, Efficiency(%): 96.14% , Luminous Efficacy(lm/W): 160.23
Central intensity(cd): 12458.810, Maximum intensity(cd): 12458.810
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=44.6
[C90/270]Total=44.6
Field angle(10%Imax): [C0/180]Total=77.8
[C90/270]Total=77.8
Maximum s/h(1/2): C0_180=0.71 C90_270=0.71
Maximum s/h(1/4): C0_180=0.72 C90_270=0.72
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.14%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.323%

Equipment: GMS1980	Date: 2026/5/13	Operator: YZQ
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 9.16

NT Nata 3-2998-LM2

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12458.807	0.000	0	0.00%	0.00%
1.0	12449.053	11.918	11.918	0.15%	0.15%
2.0	12412.659	35.684	47.602	0.44%	0.61%
3.0	12353.086	59.232	106.833	0.73%	1.37%
4.0	12273.271	82.432	189.266	1.02%	2.43%
5.0	12163.564	105.126	294.392	1.30%	3.78%
6.0	12026.903	127.127	421.519	1.57%	5.41%
7.0	11855.316	148.237	569.755	1.83%	7.31%
8.0	11664.011	168.323	738.079	2.08%	9.47%
9.0	11450.471	187.330	925.409	2.31%	11.87%
10.0	11183.022	204.825	1130.234	2.53%	14.50%
11.0	10900.051	220.655	1350.889	2.72%	17.33%
12.0	10594.110	234.962	1585.851	2.90%	20.34%
13.0	10251.880	247.389	1833.24	3.05%	23.52%
14.0	9870.634	257.566	2090.807	3.18%	26.82%
15.0	9469.355	265.508	2356.315	3.27%	30.23%
16.0	9053.918	271.418	2627.733	3.35%	33.71%
17.0	8618.448	275.206	2902.939	3.39%	37.24%
18.0	8182.453	277.010	3179.949	3.42%	40.79%
19.0	7716.253	276.605	3456.554	3.41%	44.34%
20.0	7253.094	273.981	3730.535	3.38%	47.86%
21.0	6805.562	269.955	4000.489	3.33%	51.32%
22.0	6366.107	264.690	4265.179	3.26%	54.72%
23.0	5920.148	257.799	4522.978	3.18%	58.02%
24.0	5509.640	249.896	4772.874	3.08%	61.23%
25.0	5143.602	242.231	5015.106	2.99%	64.34%
26.0	4788.681	234.453	5249.559	2.89%	67.34%
27.0	4440.998	225.806	5475.365	2.79%	70.24%
28.0	4137.364	217.186	5692.551	2.68%	73.03%
29.0	3848.100	208.922	5901.473	2.58%	75.71%
30.0	3583.692	200.657	6102.13	2.47%	78.28%
31.0	3312.048	191.898	6294.028	2.37%	80.74%
32.0	3052.150	182.327	6476.355	2.25%	83.08%
33.0	2751.223	170.969	6647.324	2.11%	85.27%
34.0	2487.759	158.547	6805.871	1.96%	87.31%
35.0	2229.865	146.512	6952.383	1.81%	89.19%
36.0	1973.156	133.825	7086.208	1.65%	90.91%
37.0	1638.949	117.807	7204.015	1.45%	92.42%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	1454.241	103.247	7307.261	1.27%	93.74%
39.0	1231.545	91.673	7398.935	1.13%	94.92%
40.0	988.335	77.422	7476.356	0.95%	95.91%
41.0	770.673	62.637	7538.994	0.77%	96.71%
42.0	599.464	49.779	7588.773	0.61%	97.35%
43.0	472.368	39.704	7628.477	0.49%	97.86%
44.0	286.443	28.640	7657.116	0.35%	98.23%
45.0	208.621	19.026	7676.142	0.23%	98.47%
46.0	177.125	15.086	7691.228	0.19%	98.67%
47.0	79.962	10.225	7701.453	0.13%	98.80%
48.0	60.349	5.672	7707.125	0.07%	98.87%
49.0	50.658	4.559	7711.684	0.06%	98.93%
50.0	44.113	3.951	7715.635	0.05%	98.98%
51.0	38.733	3.505	7719.14	0.04%	99.02%
52.0	34.968	3.163	7722.303	0.04%	99.07%
53.0	32.293	2.926	7725.229	0.04%	99.10%
54.0	30.374	2.762	7727.991	0.03%	99.14%
55.0	28.622	2.633	7730.624	0.03%	99.17%
56.0	27.154	2.520	7733.144	0.03%	99.20%
57.0	25.874	2.425	7735.569	0.03%	99.24%
58.0	24.752	2.341	7737.91	0.03%	99.27%
59.0	23.787	2.269	7740.179	0.03%	99.29%
60.0	22.927	2.207	7742.386	0.03%	99.32%
61.0	22.183	2.153	7744.539	0.03%	99.35%
62.0	21.511	2.105	7746.645	0.03%	99.38%
63.0	20.913	2.063	7748.708	0.03%	99.40%
64.0	20.316	2.023	7750.731	0.02%	99.43%
65.0	19.844	1.987	7752.718	0.02%	99.46%
66.0	19.393	1.958	7754.676	0.02%	99.48%
67.0	18.931	1.927	7756.603	0.02%	99.51%
68.0	18.501	1.896	7758.499	0.02%	99.53%
69.0	18.134	1.869	7760.368	0.02%	99.55%
70.0	17.777	1.844	7762.213	0.02%	99.58%
71.0	17.442	1.820	7764.033	0.02%	99.60%
72.0	17.127	1.797	7765.83	0.02%	99.62%
73.0	16.802	1.774	7767.605	0.02%	99.65%
74.0	16.519	1.752	7769.356	0.02%	99.67%
75.0	16.246	1.731	7771.088	0.02%	99.69%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.015	1.713	7772.8	0.02%	99.71%
77.0	15.774	1.695	7774.495	0.02%	99.73%
78.0	15.544	1.676	7776.172	0.02%	99.76%
79.0	15.376	1.661	7777.833	0.02%	99.78%
80.0	15.187	1.648	7779.481	0.02%	99.80%
81.0	15.019	1.633	7781.114	0.02%	99.82%
82.0	14.830	1.619	7782.733	0.02%	99.84%
83.0	14.704	1.606	7784.338	0.02%	99.86%
84.0	14.537	1.593	7785.931	0.02%	99.88%
85.0	14.390	1.579	7787.51	0.02%	99.90%
86.0	14.191	1.562	7789.072	0.02%	99.92%
87.0	14.002	1.543	7790.615	0.02%	99.94%
88.0	13.918	1.529	7792.145	0.02%	99.96%
89.0	13.834	1.521	7793.666	0.02%	99.98%
90.0	13.719	1.511	7795.176	0.02%	100.00%

Zonal flux distribution table

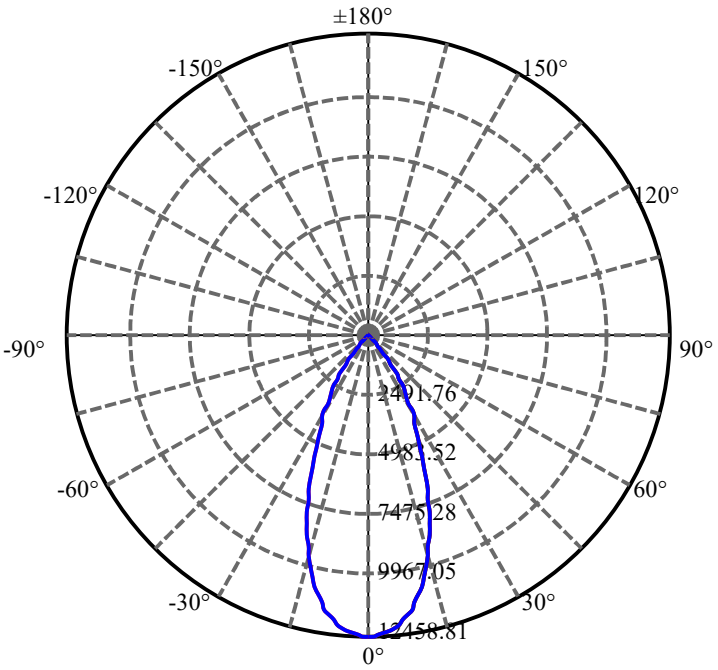
ZONAL LUMEN SUMMARY

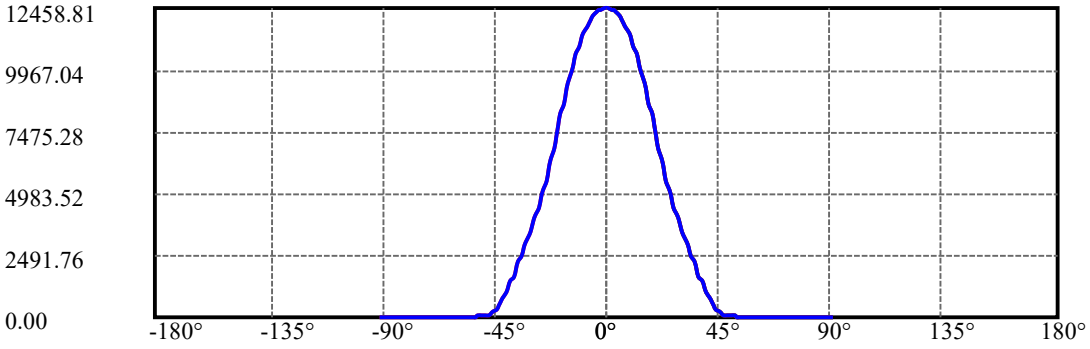
Zone	Lumens	%Lamp	%Fixt
0-30	6102.13	75.26%	78.28%
0-40	7476.36	92.21%	95.91%
0-60	7742.39	95.49%	99.32%
0-90	7793.67	96.13%	99.98%
0-120	7793.67	96.13%	99.98%
0-180	7795.18	96.14%	100.00%
60-90	51.28	0.63%	0.66%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-30.70	6236.14	76.92%	80.00%

ZONAL LUMEN SUMMARY

0-10	1130.23
10-20	2600.30
20-30	2371.60
30-40	1374.23
40-50	239.28
50-60	26.75
60-70	19.83
70-80	17.27
80-90	14.19
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):

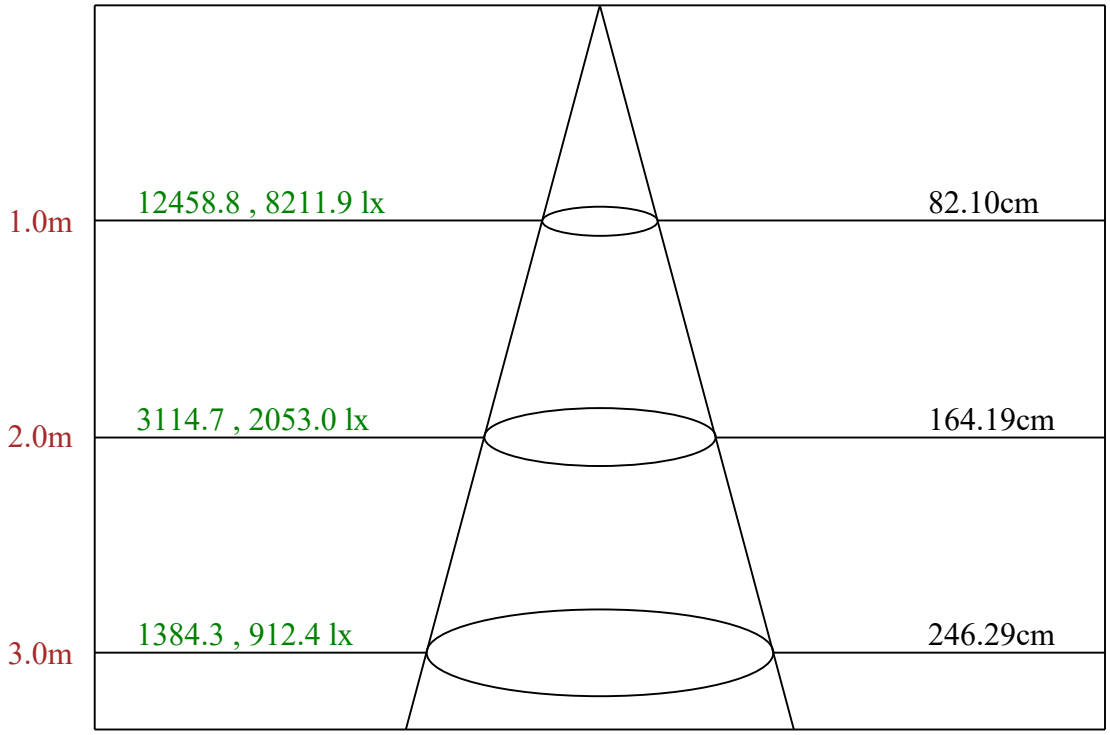
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:38.9 Right:38.9
:C90/270Left:38.9 Right:38.9

Beam Angle(50%Imax):C0/180Left:22.3 Right:22.3
:C90/270Left:22.3 Right:22.3

Lux distance Curve



Max , Ave

Beam angle of C0 plane 44.63

NT Nata 3-2998-LM2

Luminance Limitting Curve(no luminous side)

Luminance Table

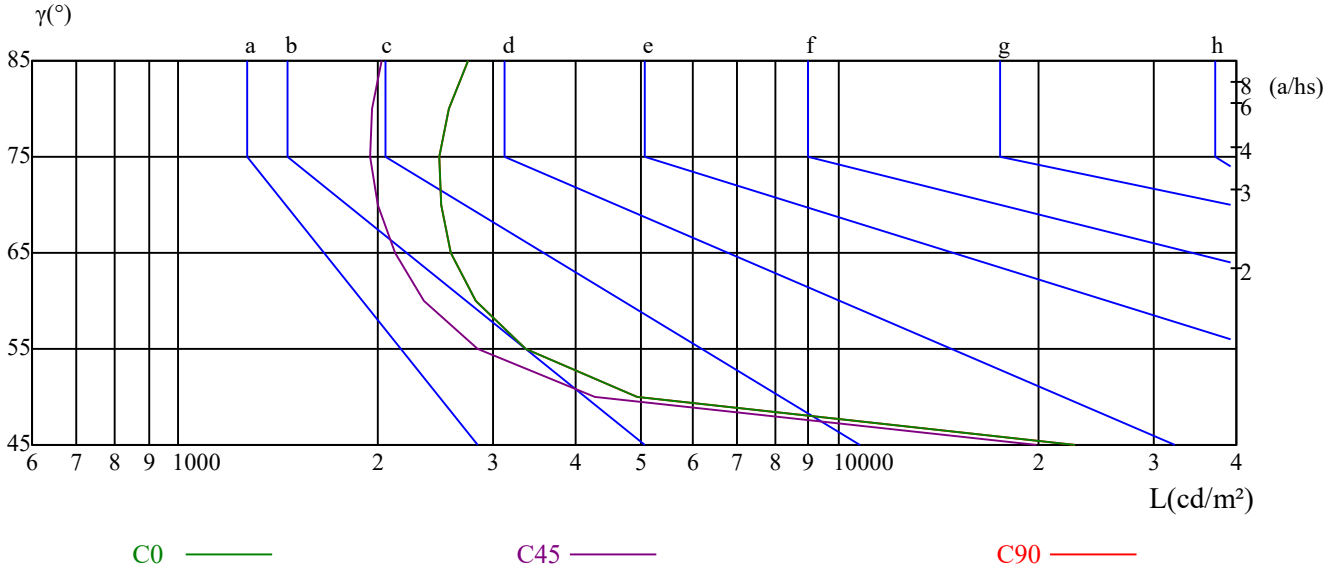
γ	45	50	55	60	65	70	75	80	85
C0	22744	4960	3349	2818	2590	2493	2482	2570	2752
C45	19882	4273	2840	2351	2121	2001	1946	1960	2030
C90	22744	4960	3349	2818	2590	2493	2482	2570	2752

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5548	5548	5548	7416	7416	7416	19507	19507	19507

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



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2026/5/13
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.16

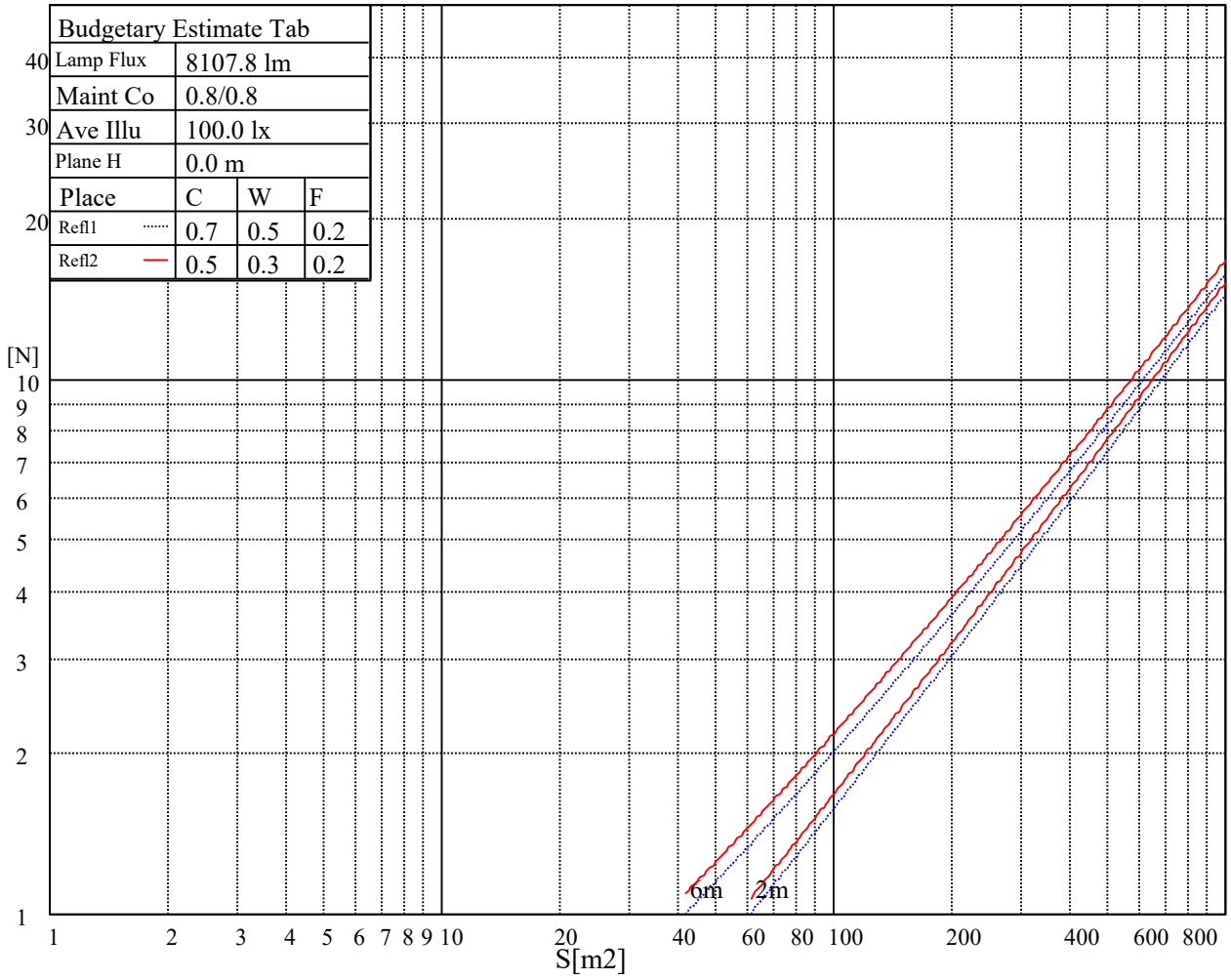
Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	21.84	22.77	22.20	23.08	23.40	22.35	23.29	22.72	23.60	23.91
	3H	21.63	22.46	22.02	22.80	23.15	22.15	22.98	22.53	23.31	23.66
	4H	21.53	22.30	21.94	22.66	23.02	22.05	22.81	22.45	23.17	23.53
	6H	21.46	22.15	21.87	22.53	22.93	21.96	22.66	22.38	23.04	23.44
	8H	21.39	22.05	21.81	22.44	22.85	21.89	22.56	22.32	22.95	23.36
	12H	21.33	21.96	21.75	22.35	22.77	21.83	22.46	22.26	22.86	23.28
4H	2H	21.52	22.28	21.92	22.64	23.01	22.03	22.80	22.43	23.15	23.52
	3H	21.28	21.92	21.70	22.31	22.73	21.79	22.43	22.22	22.83	23.24
	4H	21.21	21.76	21.65	22.19	22.64	21.72	22.27	22.16	22.70	23.15
	6H	21.09	21.57	21.56	22.03	22.48	21.59	22.08	22.07	22.53	22.99
	8H	21.04	21.49	21.53	21.95	22.43	21.55	22.00	22.03	22.46	22.93
	12H	21.01	21.43	21.50	21.88	22.40	21.51	21.92	22.00	22.38	22.90
8H	4H	21.01	21.46	21.50	21.92	22.39	21.52	21.97	22.00	22.43	22.90
	6H	20.88	21.25	21.39	21.73	22.24	21.39	21.75	21.89	22.23	22.75
	8H	20.89	21.20	21.43	21.72	22.22	21.39	21.70	21.93	22.22	22.72
	12H	20.87	21.11	21.42	21.62	22.15	21.36	21.60	21.91	22.12	22.64
12H	4H	20.96	21.37	21.45	21.82	22.35	21.46	21.88	21.95	22.33	22.85
	6H	20.87	21.18	21.41	21.70	22.20	21.37	21.68	21.91	22.20	22.70
	8H	20.85	21.08	21.39	21.60	22.12	21.34	21.57	21.89	22.09	22.62

Variation with the observer position at spacings:		
S = 1.0H	5.3/-13.7	5.3/-13.7
S = 1.5H	8.0/-12.2	8.0/-12.2
S = 2.0H	10.0/-11.2	10.0/-11.2
Standard tables:	BK0	BK0
Uncorrected UGR	1.6	1.6

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

Budgetary Estimate Table

Budgetary Estimate Tab			
Lamp Flux	8107.8 lm		
Maint Co	0.8/0.8		
Ave Illu	100.0 lx		
Plane H	0.0 m		
Place	C	W	F
Refl1	0.7	0.5	0.2
Refl2	0.5	0.3	0.2



Equipment: GMS1980	Date: 2026/5/13	Operator: YZQ
Temperature(°C): 25.0	Humidity(%): 60.0%	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	1.14	1.14	1.14	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.96	0.93	0.98	0.95	0.92	0.95	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.87	0.85
3	0.94	0.90	0.86	0.93	0.89	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.83	0.81	0.80
4	0.88	0.84	0.80	0.87	0.83	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.75
5	0.83	0.78	0.74	0.83	0.78	0.74	0.81	0.77	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.71
6	0.79	0.74	0.70	0.78	0.73	0.70	0.77	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.68	0.67
7	0.75	0.69	0.66	0.74	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.63
8	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.68	0.64	0.61	0.60
9	0.67	0.62	0.59	0.67	0.62	0.59	0.66	0.62	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.57
10	0.64	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.54

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	12494.47	12507.05	12496.98	12460.07	12406.37	12307.36	12207.51	12090.04	11900.42
45.0	12423.99	12468.46	12502.02	12501.18	12474.33	12418.11	12345.11	12225.97	12105.98
90.0	12470.13	12489.43	12481.04	12441.61	12387.91	12312.39	12189.89	12067.39	11924.75
135.0	12446.64	12468.46	12468.46	12447.48	12406.37	12341.76	12263.73	12132.83	12006.98
180.0	12494.47	12460.07	12403.85	12326.66	12206.67	12085.85	11934.82	11702.40	11495.99
225.0	12423.99	12353.51	12236.04	12115.21	11975.09	11803.92	11546.33	11311.40	11047.93
270.0	12470.13	12436.57	12380.36	12279.67	12178.98	12053.12	11902.93	11673.87	11466.62
315.0	12446.64	12408.88	12332.53	12252.82	12150.45	11986.00	11824.90	11638.63	11363.42
360.0	12494.47	12507.05	12496.98	12460.07	12406.37	12307.36	12207.51	12090.04	11900.42

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	11724.21	11515.29	11209.87	10936.34	10630.92	10210.56	9853.12	9463.80	9056.02
45.0	11966.70	11799.73	11602.55	11322.31	11067.23	10779.44	10383.40	10036.03	9664.33
90.0	11756.10	11503.54	11273.64	11016.89	10733.29	10424.52	10009.18	9650.91	9178.52
135.0	11858.46	11636.11	11425.51	11130.16	10859.99	10564.64	10241.60	9806.13	9431.07
180.0	11198.96	10923.75	10622.53	10299.50	9867.38	9491.49	9102.16	8590.34	8164.10
225.0	10757.62	10364.94	10027.64	9668.53	9189.43	8782.48	8258.91	7821.76	7372.87
270.0	11231.69	10966.55	10594.84	10275.16	9929.47	9462.12	9068.60	8659.14	8126.34
315.0	11110.02	10754.26	10443.81	10104.00	9737.33	9249.84	8837.86	8403.23	7954.33
360.0	11724.21	11515.29	11209.87	10936.34	10630.92	10210.56	9853.12	9463.80	9056.02

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	8524.89	8083.55	7633.82	7183.24	6626.11	6190.64	5773.63	5281.10	4914.43
45.0	9275.01	8764.86	8344.50	7805.82	7365.32	6928.17	6400.40	5990.94	5596.59
90.0	8782.48	8376.38	7854.49	7434.96	7012.07	6503.61	6109.25	5735.87	5377.59
135.0	9039.23	8628.10	8104.53	7680.80	7252.88	6730.15	6328.24	5944.80	5481.64
180.0	7721.92	7283.09	6855.17	6321.53	5905.36	5415.35	5050.36	4711.38	4314.51
225.0	6928.17	6393.69	5980.88	5586.52	5218.17	4786.06	4469.74	4177.74	3906.73
270.0	7687.51	7252.88	6734.35	6323.21	5926.34	5549.60	5111.61	4785.22	4481.48
315.0	7500.41	6947.47	6517.03	6108.41	5622.60	5257.61	4833.89	4521.76	4236.48
360.0	8524.89	8083.55	7633.82	7183.24	6626.11	6190.64	5773.63	5281.10	4914.43

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	4495.75	4187.81	3910.92	3593.76	3376.45	3165.84	2930.07	2686.74	2369.58
45.0	5218.17	4772.63	4452.12	4158.45	3892.46	3589.57	3373.09	3154.10	2852.87
90.0	4959.74	4645.94	4357.30	4090.48	3781.71	3555.16	3314.36	2973.70	2698.49
135.0	5130.07	4796.13	4421.91	4151.73	3895.82	3613.06	3378.96	3118.02	2850.36
180.0	4022.52	3764.93	3467.06	3238.00	3001.39	2765.61	2442.58	2175.76	1944.18
225.0	3602.99	3378.96	3088.65	2843.64	2595.28	2289.03	1631.88	1631.88	1515.34
270.0	4192.01	3886.59	3647.46	3405.81	3089.49	2836.09	2589.41	2250.43	1990.32
315.0	3906.73	3665.92	3439.37	3187.66	2863.78	2602.84	2349.44	1911.45	1617.78
360.0	4495.75	4187.81	3910.92	3593.76	3376.45	3165.84	2930.07	2686.74	2369.58

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1937.46	1645.56	1645.56	1359.69	1141.79	936.97	690.29	511.91	320.69
45.0	2597.80	2346.08	2021.37	1763.78	1518.78	1230.14	1011.15	808.09	620.15
90.0	2358.67	1635.82	1635.82	1573.06	1273.27	1048.74	838.47	644.65	430.10
135.0	2581.02	2251.27	1979.42	1711.76	1406.34	1178.12	966.68	719.99	536.24
180.0	1709.24	1415.57	1201.61	978.42	735.10	554.70	424.65	424.65	107.23
225.0	1286.78	1064.43	852.98	657.74	436.64	286.71	167.90	83.23	65.36
270.0	1755.39	1428.16	1199.93	980.10	766.14	520.30	431.36	431.36	122.08
315.0	1558.88	1324.70	1097.23	827.81	628.62	409.71	265.23	155.06	89.70
360.0	1937.46	1645.56	1645.56	1359.69	1141.79	936.97	690.29	511.91	320.69

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	197.93	108.24	70.06	59.74	51.18	42.96	36.67	34.23	32.30
45.0	452.34	452.34	151.45	88.52	66.20	56.22	47.66	39.44	35.66
90.0	280.83	166.05	105.05	80.63	67.96	57.14	46.65	41.53	37.34
135.0	451.50	451.50	112.52	83.23	66.96	56.89	47.99	41.95	37.34
180.0	68.63	56.72	49.00	41.95	37.00	33.31	31.55	29.95	28.61
225.0	55.55	45.39	39.02	35.07	32.47	30.71	29.20	27.60	26.51
270.0	86.84	73.33	59.07	49.50	43.63	38.85	35.91	33.48	30.88
315.0	75.35	63.43	53.53	44.13	39.86	36.83	34.23	31.55	29.70
360.0	197.93	108.24	70.06	59.74	51.18	42.96	36.67	34.23	32.30

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.63	28.78	27.52	26.35	25.09	24.25	23.33	22.57	22.07
45.0	33.48	31.13	29.53	27.86	26.68	25.51	24.67	23.66	22.91
90.0	34.57	32.22	29.79	28.19	26.77	25.51	24.25	23.41	22.65
135.0	34.65	32.22	30.29	28.28	26.77	25.26	24.33	23.41	22.40
180.0	27.10	26.09	24.92	24.16	23.33	22.57	21.90	21.40	20.81
225.0	25.42	24.58	23.58	22.91	22.23	21.65	21.06	20.56	19.97
270.0	29.03	27.60	26.26	24.92	23.91	23.07	22.32	21.48	20.89
315.0	28.11	26.35	25.34	24.33	23.24	22.49	21.56	20.98	20.39
360.0	30.63	28.78	27.52	26.35	25.09	24.25	23.33	22.57	22.07

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.40	20.72	20.31	19.89	19.47	18.96	18.63	18.29	17.96
45.0	22.15	21.56	21.06	20.47	20.05	19.47	19.05	18.71	18.29
90.0	21.90	21.14	20.56	20.05	19.47	18.96	18.54	18.12	17.79
135.0	21.73	21.14	20.56	19.97	19.47	19.05	18.63	18.21	17.87
180.0	20.31	19.89	19.55	19.05	18.71	18.29	18.04	17.70	17.37
225.0	19.55	19.13	18.71	18.38	18.04	17.79	17.28	17.03	16.78
270.0	20.39	19.72	19.21	18.88	18.29	17.87	17.62	17.20	16.87
315.0	19.89	19.21	18.79	18.46	17.96	17.62	17.28	16.95	16.61
360.0	21.40	20.72	20.31	19.89	19.47	18.96	18.63	18.29	17.96

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.54	17.28	16.95	16.70	16.45	16.11	15.94	15.77	15.52
45.0	17.96	17.62	17.20	16.95	16.70	16.36	16.11	15.94	15.69
90.0	17.45	17.03	16.78	16.45	16.28	15.94	15.69	15.52	15.35
135.0	17.54	17.12	16.87	16.53	16.28	16.03	15.77	15.52	15.35
180.0	17.12	16.78	16.53	16.28	16.03	15.86	15.61	15.44	15.27
225.0	16.53	16.28	16.03	15.77	15.52	15.35	15.19	15.02	14.94
270.0	16.61	16.28	16.03	15.77	15.52	15.35	15.10	14.94	14.77
315.0	16.28	16.03	15.77	15.52	15.35	15.19	14.94	14.85	14.60
360.0	17.54	17.28	16.95	16.70	16.45	16.11	15.94	15.77	15.52

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.35	15.19	15.02	14.85	14.68	14.60	14.52	14.43	14.18
45.0	15.52	15.27	15.10	14.94	14.68	14.52	14.43	14.35	14.26
90.0	15.10	14.85	14.68	14.52	14.43	14.26	14.18	14.01	13.84
135.0	15.27	15.02	14.85	14.68	14.52	14.26	14.10	14.01	13.84
180.0	15.10	14.94	14.85	14.77	14.60	14.43	14.18	13.93	13.93
225.0	14.77	14.60	14.52	14.35	14.18	13.84	13.76	13.76	13.76
270.0	14.60	14.43	14.35	14.18	14.10	13.84	13.51	13.51	13.51
315.0	14.43	14.35	14.26	14.01	13.93	13.76	13.34	13.34	13.34
360.0	15.35	15.19	15.02	14.85	14.68	14.60	14.52	14.43	14.18

Intensity data(cd)

C/γ(°)	90.0
0.0	14.01
45.0	14.10
90.0	13.59
135.0	13.51
180.0	13.93
225.0	13.76
270.0	13.51
315.0	13.34
360.0	14.01