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Nata

Client: NT
LumCAT: 3-2998-LM2
Luminaire: 99.02.73.207
Report No: 20260512-B010
Ballast type: DC

Test No: 20260512-C010	Voltage(V): 51.080
LampCAT: Bridgelux V22 Gen 8	Current(A): 0.948
Lamp flux(lm): 8019.5	Power (W): 48.420
Number of Lamps: 1	PF: 0.000
Length(mm): 92	Width(mm): 92
Phm Type: C	Height(mm): 49

Photometric Results

Lumens(lm): 7725.93, Efficiency(%): 96.34% , Luminous Efficacy(lm/W): 159.56
Central intensity(cd): 12443.600, Maximum intensity(cd): 12443.600
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=44.4
[C90/270]Total=44.4
Field angle(10%Imax): [C0/180]Total=77.6
[C90/270]Total=77.6
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(%): 96.34%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.338%

Equipment: GMS1980	Date: 2026/5/12	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	12443.599	0.000	0	0.00%	0.00%
1.0	12432.482	11.903	11.903	0.15%	0.15%
2.0	12395.248	35.635	47.538	0.44%	0.62%
3.0	12334.207	59.145	106.683	0.74%	1.38%
4.0	12257.329	82.316	188.998	1.03%	2.45%
5.0	12147.727	104.989	293.988	1.31%	3.81%
6.0	12008.653	126.948	420.936	1.58%	5.45%
7.0	11849.338	148.086	569.022	1.85%	7.37%
8.0	11652.684	168.199	737.221	2.10%	9.54%
9.0	11432.851	187.096	924.317	2.33%	11.96%
10.0	11173.478	204.579	1128.896	2.55%	14.61%
11.0	10893.967	220.499	1349.395	2.75%	17.47%
12.0	10572.190	234.656	1584.051	2.93%	20.50%
13.0	10242.440	247.017	1831.068	3.08%	23.70%
14.0	9875.039	257.502	2088.57	3.21%	27.03%
15.0	9460.545	265.447	2354.018	3.31%	30.47%
16.0	9045.003	271.158	2625.176	3.38%	33.98%
17.0	8605.757	274.870	2900.045	3.43%	37.54%
18.0	8165.357	276.519	3176.564	3.45%	41.12%
19.0	7691.815	275.882	3452.447	3.44%	44.69%
20.0	7208.099	272.710	3725.157	3.40%	48.22%
21.0	6769.378	268.396	3993.552	3.35%	51.69%
22.0	6314.295	262.922	4256.474	3.28%	55.09%
23.0	5890.467	256.089	4512.563	3.19%	58.41%
24.0	5474.505	248.479	4761.042	3.10%	61.62%
25.0	5094.727	240.321	5001.363	3.00%	64.73%
26.0	4737.918	232.101	5233.464	2.89%	67.74%
27.0	4397.367	223.497	5456.961	2.79%	70.63%
28.0	4094.467	214.995	5671.956	2.68%	73.41%
29.0	3800.273	206.549	5878.505	2.58%	76.09%
30.0	3558.311	198.680	6077.185	2.48%	78.66%
31.0	3287.191	190.500	6267.685	2.38%	81.13%
32.0	3033.901	181.092	6448.777	2.26%	83.47%
33.0	2763.829	170.803	6619.58	2.13%	85.68%
34.0	2476.977	158.602	6778.183	1.98%	87.73%
35.0	2143.903	143.507	6921.69	1.79%	89.59%
36.0	1866.102	127.679	7049.37	1.59%	91.24%
37.0	1658.782	114.962	7164.331	1.43%	92.73%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	1444.896	103.597	7267.928	1.29%	94.07%
39.0	1199.399	90.257	7358.185	1.13%	95.24%
40.0	952.738	75.059	7433.244	0.94%	96.21%
41.0	740.089	60.281	7493.525	0.75%	96.99%
42.0	567.066	47.491	7541.016	0.59%	97.61%
43.0	407.320	36.094	7577.11	0.45%	98.07%
44.0	277.518	25.848	7602.958	0.32%	98.41%
45.0	197.577	18.258	7621.216	0.23%	98.64%
46.0	84.273	11.023	7632.239	0.14%	98.79%
47.0	63.821	5.890	7638.129	0.07%	98.86%
48.0	52.514	4.703	7642.832	0.06%	98.92%
49.0	44.113	3.968	7646.8	0.05%	98.98%
50.0	38.219	3.433	7650.232	0.04%	99.02%
51.0	34.380	3.072	7653.304	0.04%	99.06%
52.0	31.748	2.838	7656.142	0.04%	99.10%
53.0	29.650	2.671	7658.812	0.03%	99.13%
54.0	28.045	2.543	7661.355	0.03%	99.16%
55.0	26.525	2.436	7663.791	0.03%	99.20%
56.0	25.277	2.341	7666.132	0.03%	99.23%
57.0	24.175	2.261	7668.393	0.03%	99.26%
58.0	23.231	2.192	7670.585	0.03%	99.28%
59.0	22.403	2.133	7672.719	0.03%	99.31%
60.0	21.627	2.080	7674.799	0.03%	99.34%
61.0	20.997	2.034	7676.833	0.03%	99.36%
62.0	20.368	1.993	7678.826	0.02%	99.39%
63.0	19.886	1.958	7680.784	0.02%	99.42%
64.0	19.361	1.926	7682.71	0.02%	99.44%
65.0	18.921	1.895	7684.604	0.02%	99.47%
66.0	18.522	1.868	7686.473	0.02%	99.49%
67.0	18.145	1.844	7688.316	0.02%	99.51%
68.0	17.767	1.819	7690.135	0.02%	99.54%
69.0	17.421	1.795	7691.93	0.02%	99.56%
70.0	17.127	1.774	7693.705	0.02%	99.58%
71.0	16.844	1.756	7695.461	0.02%	99.61%
72.0	16.582	1.738	7697.199	0.02%	99.63%
73.0	16.299	1.719	7698.918	0.02%	99.65%
74.0	16.036	1.700	7700.618	0.02%	99.67%
75.0	15.816	1.683	7702.301	0.02%	99.69%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.585	1.667	7703.968	0.02%	99.72%
77.0	15.386	1.651	7705.619	0.02%	99.74%
78.0	15.187	1.637	7707.256	0.02%	99.76%
79.0	14.998	1.622	7708.878	0.02%	99.78%
80.0	14.862	1.610	7710.487	0.02%	99.80%
81.0	14.694	1.598	7712.086	0.02%	99.82%
82.0	14.547	1.586	7713.671	0.02%	99.84%
83.0	14.442	1.576	7715.247	0.02%	99.86%
84.0	14.316	1.567	7716.814	0.02%	99.88%
85.0	14.212	1.557	7718.371	0.02%	99.90%
86.0	14.065	1.546	7719.917	0.02%	99.92%
87.0	13.876	1.529	7721.446	0.02%	99.94%
88.0	13.677	1.509	7722.955	0.02%	99.96%
89.0	13.530	1.491	7724.446	0.02%	99.98%
90.0	13.477	1.481	7725.927	0.02%	100.00%

Zonal flux distribution table

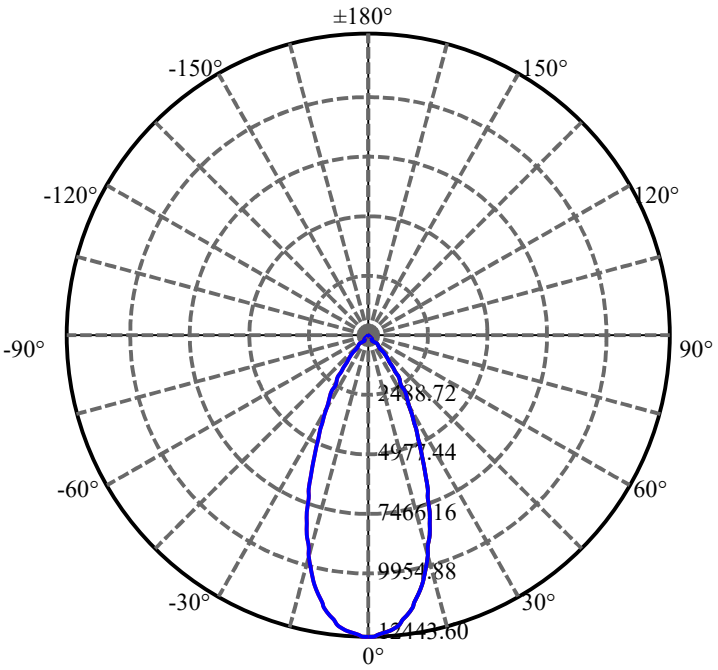
ZONAL LUMEN SUMMARY

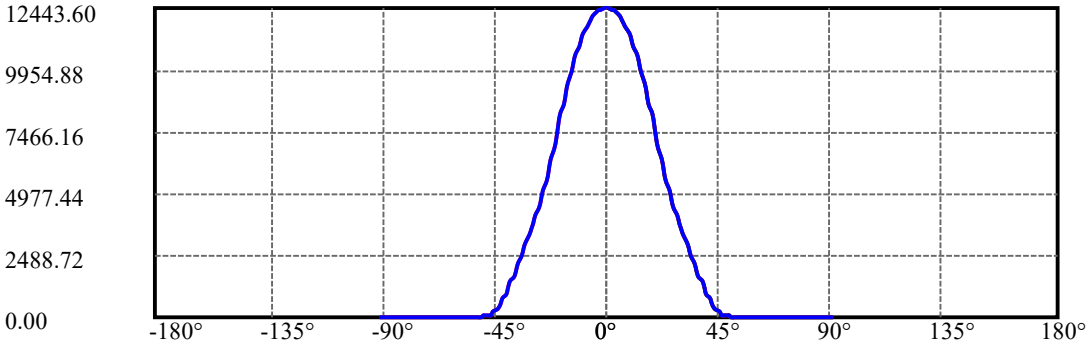
Zone	Lumens	%Lamp	%Fixt
0-30	6077.18	75.78%	78.66%
0-40	7433.24	92.69%	96.21%
0-60	7674.80	95.70%	99.34%
0-90	7724.45	96.32%	99.98%
0-120	7724.45	96.32%	99.98%
0-180	7725.93	96.34%	100.00%
60-90	49.65	0.62%	0.64%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-30.54	6180.74	77.07%	80.00%

ZONAL LUMEN SUMMARY

0-10	1128.90
10-20	2596.26
20-30	2352.03
30-40	1356.06
40-50	216.99
50-60	24.57
60-70	18.91
70-80	16.78
80-90	13.96
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):

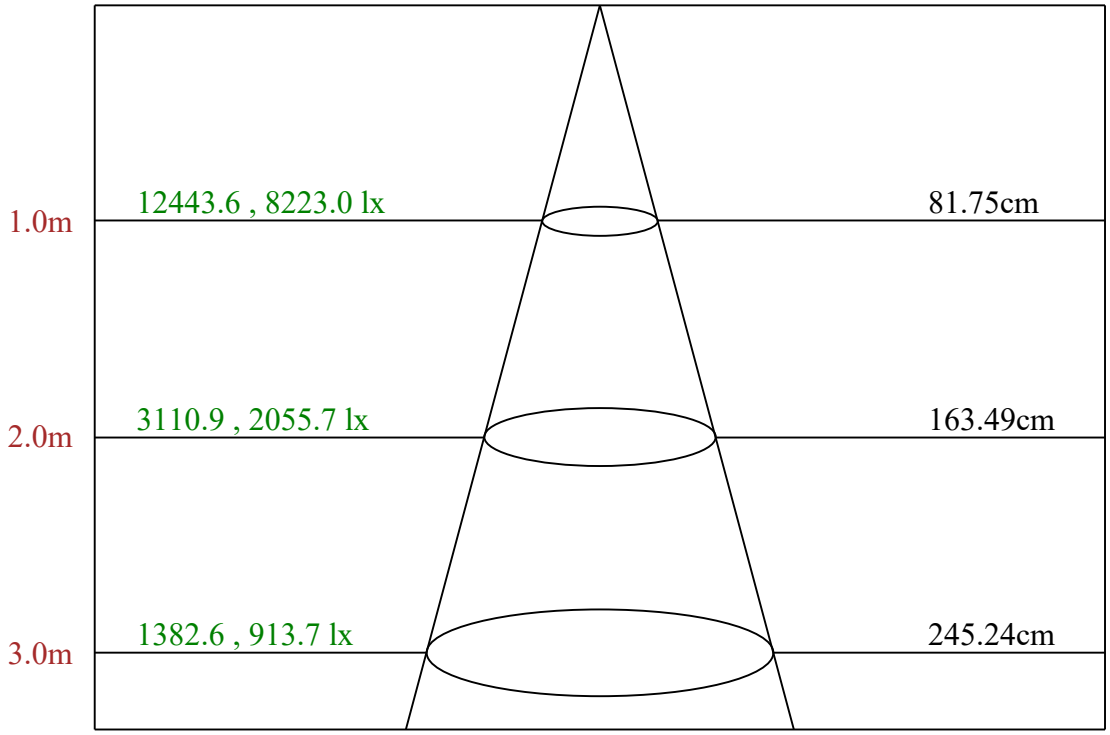
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:38.8 Right:38.8
:C90/270Left:38.8 Right:38.8

Beam Angle(50%Imax):C0/180Left:22.2 Right:22.2
:C90/270Left:22.2 Right:22.2

Lux distance Curve



Max , Ave

Beam angle of C0 plane 44.46

NT Nata 3-2998-LM2

Luminance Limitting Curve(no luminous side)

Luminance Table

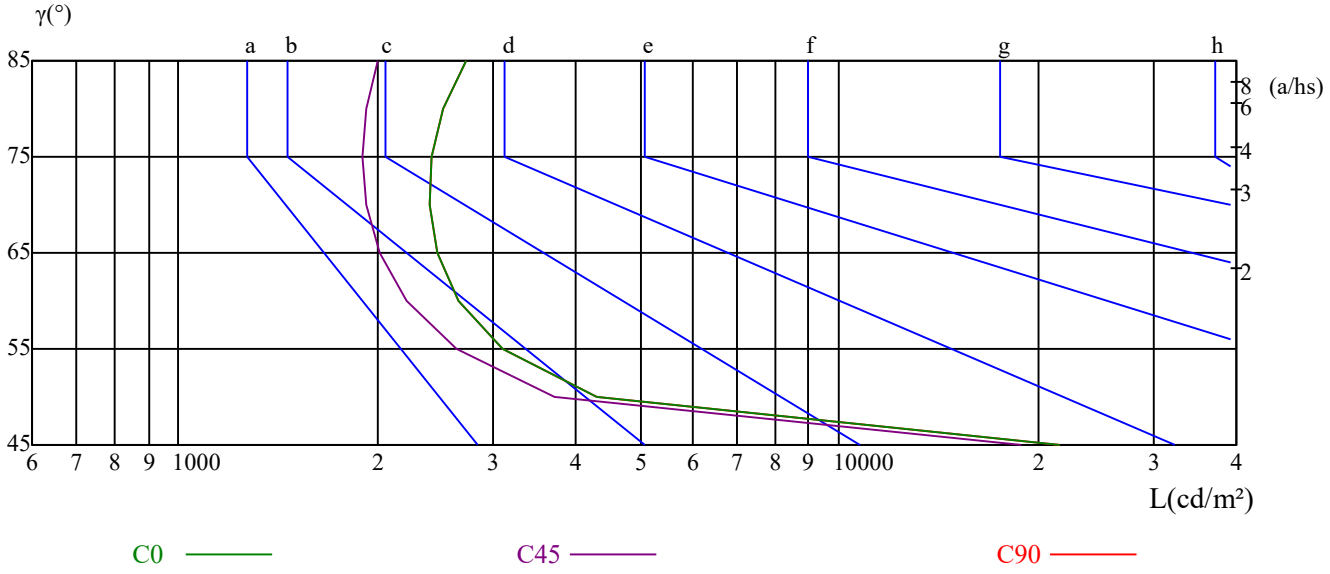
γ	45	50	55	60	65	70	75	80	85
C0	21540	4297	3103	2658	2469	2402	2417	2515	2718
C45	18829	3702	2632	2217	2023	1928	1894	1918	2005
C90	21540	4297	3103	2658	2469	2402	2417	2515	2718

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5289	5289	5289	7220	7220	7220	19265	19265	19265

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: 2026/5/12
Humidity(%): 60.0%

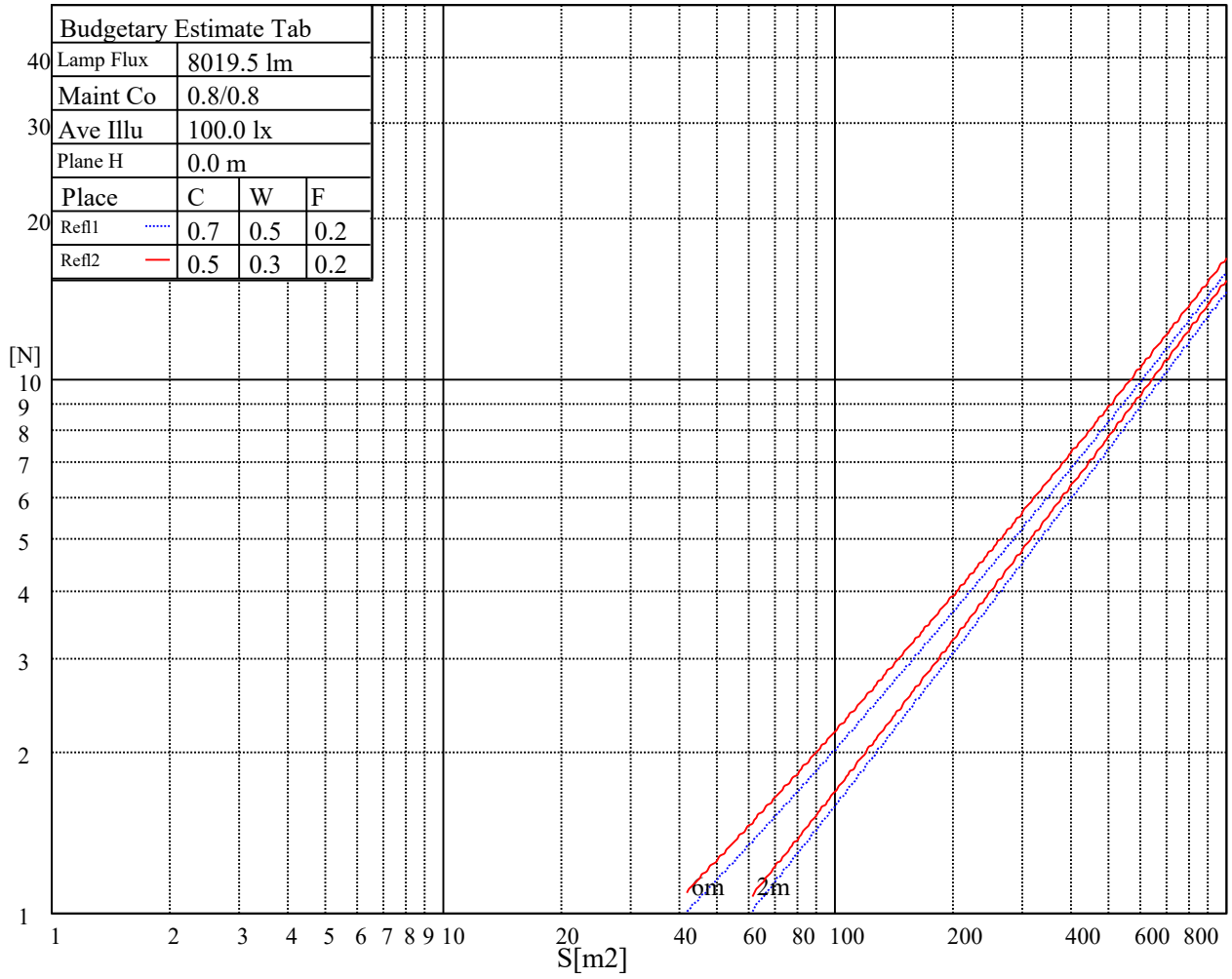
Operator: YZQ
Distance(m): 9.16

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	21.32	22.25	21.68	22.56	22.88	20.68	21.61	21.04	21.92	22.24
	3H	21.12	21.94	21.50	22.28	22.62	20.48	21.30	20.87	21.64	21.99
	4H	21.02	21.78	21.42	22.13	22.50	20.38	21.14	20.78	21.50	21.87
	6H	20.94	21.63	21.36	22.01	22.41	20.31	21.00	20.72	21.38	21.78
	8H	20.87	21.53	21.29	21.92	22.33	20.24	20.90	20.66	21.29	21.70
	12H	20.81	21.44	21.24	21.84	22.25	20.18	20.81	20.61	21.21	21.62
4H	2H	21.00	21.76	21.40	22.12	22.48	20.36	21.12	20.76	21.48	21.84
	3H	20.76	21.40	21.19	21.79	22.21	20.12	20.76	20.55	21.16	21.57
	4H	20.69	21.24	21.13	21.67	22.12	20.06	20.61	20.50	21.03	21.48
	6H	20.57	21.06	21.05	21.51	21.96	19.94	20.43	20.42	20.88	21.33
	8H	20.53	20.98	21.02	21.44	21.91	19.90	20.35	20.39	20.81	21.29
	12H	20.50	20.91	20.99	21.36	21.89	19.88	20.29	20.37	20.74	21.27
8H	4H	20.49	20.94	20.98	21.40	21.87	19.86	20.31	20.35	20.77	21.24
	6H	20.37	20.73	20.87	21.21	21.73	19.74	20.11	20.25	20.59	21.10
	8H	20.38	20.68	20.91	21.21	21.71	19.76	20.07	20.30	20.59	21.09
	12H	20.36	20.59	20.91	21.11	21.64	19.75	19.98	20.30	20.50	21.03
12H	4H	20.44	20.85	20.93	21.30	21.83	19.81	20.22	20.30	20.67	21.20
	6H	20.35	20.66	20.89	21.18	21.68	19.73	20.04	20.27	20.56	21.06
	8H	20.33	20.56	20.88	21.08	21.61	19.72	19.95	20.26	20.47	20.99

Variation with the observer position at spacings:		
S = 1.0H	5.4/-13.9	5.4/-13.9
S = 1.5H	8.2/-12.3	8.2/-12.3
S = 2.0H	10.1/-11.2	10.1/-11.2
Standard tables:	BK0	BK0
Uncorrected UGR	1.5	1.5

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

Budgetary Estimate Table



Equipment: GMS1980 Date: 2026/5/12 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	1.15	1.15	1.15	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	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91
2	1.00	0.97	0.94	0.99	0.95	0.93	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.87	0.85
3	0.94	0.90	0.86	0.93	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.80
4	0.89	0.84	0.80	0.88	0.83	0.80	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.75
5	0.84	0.79	0.75	0.83	0.78	0.74	0.81	0.77	0.74	0.80	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	0.73	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.67
7	0.75	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.63
8	0.71	0.66	0.62	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.60
9	0.68	0.62	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.57
10	0.65	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.58	0.56	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	12451.67	12450.00	12421.47	12374.48	12308.20	12194.08	12078.30	11944.89	11784.63
45.0	12434.89	12444.12	12435.73	12395.46	12340.92	12266.24	12169.75	12020.40	11876.92
90.0	12447.48	12429.86	12378.68	12317.43	12238.55	12107.66	11977.61	11824.90	11595.00
135.0	12443.28	12450.84	12436.57	12391.26	12331.69	12250.30	12114.37	11979.29	11773.72
180.0	12451.67	12427.34	12366.93	12293.93	12194.92	12042.22	11886.15	11700.72	11433.06
225.0	12429.02	12392.94	12338.40	12237.72	12132.83	12003.62	11803.08	11610.94	11389.43
270.0	12447.48	12447.48	12429.86	12378.68	12317.43	12236.04	12131.99	11970.90	11817.35
315.0	12443.28	12417.27	12354.34	12284.70	12194.08	12081.65	11907.97	11742.67	11551.37
360.0	12451.67	12450.00	12421.47	12374.48	12308.20	12194.08	12078.30	11944.89	11784.63

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	11548.85	11330.70	11087.37	10741.68	10437.94	10108.19	9671.88	9300.18	8906.66
45.0	11707.43	11511.93	11229.17	10970.74	10683.78	10284.39	9933.67	9557.77	9059.37
90.0	11381.04	11073.11	10792.02	10483.25	10147.63	9690.34	9303.54	8892.40	8460.29
135.0	11582.41	11363.42	11051.29	10768.53	10458.08	10119.94	9658.46	9268.30	8853.80
180.0	11186.38	10909.49	10604.07	10188.74	9827.11	9445.34	9048.46	8529.93	8092.78
225.0	11141.91	10796.22	10494.16	10166.93	9815.36	9444.50	8955.33	8540.83	7994.61
270.0	11637.79	11370.97	11128.48	10860.82	10491.64	10170.28	9827.95	9373.18	8986.37
315.0	11277.00	11031.99	10765.17	10396.83	10077.99	9737.33	9285.08	8897.43	8492.17
360.0	11548.85	11330.70	11087.37	10741.68	10437.94	10108.19	9671.88	9300.18	8906.66

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	8401.55	7979.51	7553.27	7126.19	6592.55	6173.02	5771.11	5386.82	4936.25
45.0	8638.17	8206.05	7658.99	7221.00	6784.69	6357.61	5845.79	5454.79	5078.89
90.0	8027.33	7476.91	7042.28	6616.04	6097.50	5699.79	5229.92	4882.55	4561.19
135.0	8422.53	7985.38	7440.83	7012.07	6485.99	6080.72	5694.76	5237.47	4893.46
180.0	7642.21	7086.75	6655.48	6120.16	5709.86	5319.70	4957.23	4537.70	4231.44
225.0	7546.55	7106.05	6568.21	6152.04	5753.49	5283.62	4928.70	4598.95	4293.53
270.0	8576.91	8155.71	7629.62	7200.86	6781.33	6372.71	5892.77	5526.11	5174.54
315.0	8067.61	7538.16	7116.12	6706.66	6308.95	5836.56	5475.76	5133.43	4734.04
360.0	8401.55	7979.51	7553.27	7126.19	6592.55	6173.02	5771.11	5386.82	4936.25

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	4602.31	4290.18	3941.97	3684.38	3402.46	3190.17	2954.40	2641.43	2388.88
45.0	4726.49	4320.38	4032.59	3763.25	3469.58	3254.78	2957.76	2706.88	2458.52
90.0	4195.36	3920.15	3676.83	3453.64	3151.58	2894.83	2633.88	2370.42	1668.88
135.0	4572.10	4203.75	3934.42	3692.77	3475.45	3187.66	2937.62	2680.87	2423.28
180.0	3942.81	3696.13	3404.13	3182.62	2951.04	2716.11	2429.99	2176.60	1867.82
225.0	3945.33	3686.90	3455.32	3222.90	2907.41	2652.34	2341.89	1919.84	1630.71
270.0	4756.69	4476.45	4119.01	3859.74	3632.36	3331.14	3076.90	2803.37	2518.09
315.0	4437.85	4161.80	3837.93	3607.19	3307.64	3044.18	2778.20	2516.41	2195.05
360.0	4602.31	4290.18	3941.97	3684.38	3402.46	3190.17	2954.40	2641.43	2388.88

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1951.73	1658.23	1658.23	1367.66	1145.90	936.89	739.38	517.70	363.06
45.0	2147.23	1901.38	1653.86	1414.73	1134.49	929.76	738.45	560.57	440.59
90.0	1668.88	1550.49	1261.10	1039.17	834.19	601.18	432.70	284.44	144.32
135.0	2101.92	1846.85	1590.93	1281.32	1050.58	791.31	603.37	428.84	428.84
180.0	1646.31	1397.95	1132.81	916.33	706.57	526.17	443.11	443.11	97.83
225.0	1572.98	1346.60	1127.78	914.74	666.38	487.07	331.59	201.21	91.29
270.0	2217.71	1946.69	1697.49	1463.40	1168.05	938.15	723.35	495.13	452.34
315.0	1622.06	1622.06	1436.97	1197.84	915.75	710.18	524.58	327.57	201.88
360.0	1951.73	1658.23	1658.23	1367.66	1145.90	936.89	739.38	517.70	363.06

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	230.57	108.83	70.48	59.07	48.50	41.20	34.74	31.97	30.21
45.0	440.59	117.55	70.06	55.21	47.32	38.51	34.07	31.46	29.37
90.0	85.08	68.30	57.56	46.23	39.86	35.91	33.23	30.63	28.86
135.0	134.92	86.09	70.73	59.15	46.99	40.61	36.50	33.73	31.05
180.0	65.45	53.03	44.89	38.01	33.56	30.37	28.86	27.10	26.01
225.0	63.26	53.45	46.06	37.84	33.48	30.54	28.95	27.60	26.09
270.0	452.34	103.71	80.80	67.88	55.46	46.99	41.03	37.25	33.73
315.0	108.41	83.23	69.98	56.72	47.74	41.62	37.67	34.23	31.88
360.0	230.57	108.83	70.48	59.07	48.50	41.20	34.74	31.97	30.21

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	28.61	26.93	25.84	24.84	23.83	22.82	22.07	21.48	20.72
45.0	27.86	26.51	25.42	24.25	23.33	22.57	21.82	21.06	20.56
90.0	27.27	25.68	24.50	23.33	22.57	21.82	20.98	20.39	19.89
135.0	29.20	27.19	25.93	24.84	23.58	22.74	21.98	21.40	20.64
180.0	24.92	23.83	22.99	22.32	21.56	20.98	20.47	19.97	19.47
225.0	25.09	24.16	23.16	22.40	21.73	21.14	20.47	19.97	19.55
270.0	31.46	29.53	27.86	26.09	24.92	23.91	22.74	21.98	21.14
315.0	29.95	28.36	26.51	25.34	24.33	23.24	22.49	21.73	20.98
360.0	28.61	26.93	25.84	24.84	23.83	22.82	22.07	21.48	20.72

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.31	19.72	19.21	18.88	18.46	18.04	17.70	17.37	17.12
45.0	20.05	19.47	19.05	18.71	18.21	17.87	17.54	17.20	16.87
90.0	19.47	18.88	18.54	18.12	17.79	17.37	17.12	16.78	16.53
135.0	20.14	19.72	19.13	18.79	18.38	18.04	17.62	17.37	17.12
180.0	19.05	18.63	18.29	17.87	17.62	17.28	16.95	16.70	16.45
225.0	19.13	18.63	18.29	17.96	17.62	17.28	16.95	16.70	16.45
270.0	20.56	19.97	19.47	18.96	18.54	18.12	17.79	17.45	17.12
315.0	20.39	19.89	19.38	18.88	18.54	18.12	17.70	17.45	17.12
360.0	20.31	19.72	19.21	18.88	18.46	18.04	17.70	17.37	17.12

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.78	16.45	16.28	16.03	15.77	15.52	15.27	15.10	14.94
45.0	16.70	16.45	16.11	15.86	15.69	15.52	15.27	15.10	14.94
90.0	16.28	16.03	15.77	15.52	15.35	15.10	14.94	14.77	14.68
135.0	16.78	16.53	16.19	16.03	15.77	15.61	15.44	15.27	15.10
180.0	16.19	15.94	15.77	15.52	15.27	15.10	14.94	14.77	14.60
225.0	16.28	15.94	15.69	15.52	15.35	15.10	14.94	14.77	14.68
270.0	16.87	16.53	16.19	16.03	15.69	15.52	15.35	15.02	14.94
315.0	16.78	16.53	16.28	16.03	15.77	15.61	15.35	15.19	15.02
360.0	16.78	16.45	16.28	16.03	15.77	15.52	15.27	15.10	14.94

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.77	14.60	14.52	14.35	14.26	14.10	14.01	13.93	13.76
45.0	14.68	14.60	14.43	14.26	14.35	14.26	13.84	13.76	13.51
90.0	14.52	14.35	14.26	14.43	14.18	13.84	13.76	13.42	13.42
135.0	14.94	14.77	14.60	14.52	14.35	14.26	14.18	13.84	13.68
180.0	14.52	14.43	14.26	14.18	14.01	13.84	13.51	13.42	13.42
225.0	14.52	14.35	14.43	14.01	14.01	13.84	13.59	13.34	13.34
270.0	14.77	14.60	14.43	14.35	14.18	14.10	13.93	13.84	13.51
315.0	14.85	14.68	14.60	14.43	14.35	14.26	14.18	13.84	13.59
360.0	14.77	14.60	14.52	14.35	14.26	14.10	14.01	13.93	13.76

Intensity data(cd)

C/γ(°)	90.0
0.0	13.51
45.0	13.42
90.0	13.42
135.0	13.68
180.0	13.42
225.0	13.34
270.0	13.42
315.0	13.59
360.0	13.51