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NATA

Client:
LumCAT: 2-2644-L
Luminaire: 92.70.411.00
Report No: 2023718-B009
Ballast type: AC

Test No: 2023718-C009	Voltage(V): 35.530
LampCAT: SLM C 1205 L13 2024 G7 HE+	Current(A): 0.480
Lamp flux(lm): 2636.6	Power (W): 17.054
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2423.75, Efficiency(%): 91.93% , Luminous Efficacy(lm/W): 142.12
Central intensity(cd): 8699.593, Maximum intensity(cd): 8699.593
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.0
[C90/270]Total=25.0
Field angle(10%Imax): [C0/180]Total=55.4
[C90/270]Total=55.4
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.93%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.965%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8699.593	0.000	0	0.00%	0.00%
1.0	8661.468	8.307	8.307	0.32%	0.34%
2.0	8542.873	24.693	33	0.94%	1.36%
3.0	8356.124	40.417	73.417	1.53%	3.03%
4.0	8108.278	55.112	128.529	2.09%	5.30%
5.0	7794.354	68.412	196.941	2.59%	8.13%
6.0	7443.205	80.077	277.018	3.04%	11.43%
7.0	7023.486	89.794	366.813	3.41%	15.13%
8.0	6562.806	97.235	464.047	3.69%	19.15%
9.0	6072.926	102.406	566.453	3.88%	23.37%
10.0	5563.397	105.304	671.758	3.99%	27.72%
11.0	5062.308	106.173	777.93	4.03%	32.10%
12.0	4564.610	105.236	883.166	3.99%	36.44%
13.0	4115.692	103.013	986.18	3.91%	40.69%
14.0	3707.044	100.130	1086.31	3.80%	44.82%
15.0	3322.890	96.510	1182.82	3.66%	48.80%
16.0	2987.309	92.462	1275.282	3.51%	52.62%
17.0	2688.192	88.383	1363.665	3.35%	56.26%
18.0	2437.717	84.515	1448.18	3.21%	59.75%
19.0	2175.134	80.254	1528.434	3.04%	63.06%
20.0	1957.663	75.642	1604.076	2.87%	66.18%
21.0	1768.838	71.556	1675.632	2.71%	69.13%
22.0	1588.385	67.465	1743.097	2.56%	71.92%
23.0	1392.337	62.544	1805.641	2.37%	74.50%
24.0	1282.667	58.485	1864.126	2.22%	76.91%
25.0	1145.716	55.216	1919.342	2.09%	79.19%
26.0	1059.074	52.044	1971.386	1.97%	81.34%
27.0	950.394	49.162	2020.548	1.86%	83.36%
28.0	831.757	45.120	2065.669	1.71%	85.23%
29.0	722.171	40.655	2106.324	1.54%	86.90%
30.0	611.263	36.002	2142.326	1.37%	88.39%
31.0	507.136	31.123	2173.45	1.18%	89.67%
32.0	401.743	26.038	2199.488	0.99%	90.75%
33.0	314.132	21.090	2220.578	0.80%	91.62%
34.0	255.270	17.232	2237.81	0.65%	92.33%
35.0	209.991	14.449	2252.259	0.55%	92.92%
36.0	177.906	12.351	2264.61	0.47%	93.43%
37.0	131.596	10.094	2274.704	0.38%	93.85%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	118.505	8.348	2283.052	0.32%	94.20%
39.0	106.680	7.686	2290.738	0.29%	94.51%
40.0	96.516	7.087	2297.825	0.27%	94.80%
41.0	86.801	6.528	2304.353	0.25%	95.07%
42.0	78.478	6.005	2310.357	0.23%	95.32%
43.0	70.749	5.528	2315.885	0.21%	95.55%
44.0	64.556	5.107	2320.992	0.19%	95.76%
45.0	59.042	4.750	2325.742	0.18%	95.96%
46.0	54.115	4.425	2330.167	0.17%	96.14%
47.0	49.991	4.141	2334.308	0.16%	96.31%
48.0	46.276	3.892	2338.2	0.15%	96.47%
49.0	43.162	3.673	2341.872	0.14%	96.62%
50.0	40.519	3.489	2345.361	0.13%	96.77%
51.0	38.284	3.334	2348.695	0.13%	96.90%
52.0	36.277	3.199	2351.895	0.12%	97.04%
53.0	34.596	3.083	2354.978	0.12%	97.16%
54.0	33.268	2.991	2357.969	0.11%	97.29%
55.0	31.994	2.913	2360.882	0.11%	97.41%
56.0	30.929	2.843	2363.725	0.11%	97.52%
57.0	29.905	2.781	2366.507	0.11%	97.64%
58.0	28.798	2.715	2369.222	0.10%	97.75%
59.0	27.725	2.642	2371.864	0.10%	97.86%
60.0	26.535	2.563	2374.427	0.10%	97.97%
61.0	25.380	2.477	2376.905	0.09%	98.07%
62.0	24.224	2.390	2379.295	0.09%	98.17%
63.0	23.228	2.308	2381.603	0.09%	98.26%
64.0	22.211	2.230	2383.833	0.08%	98.35%
65.0	21.346	2.156	2385.988	0.08%	98.44%
66.0	20.515	2.089	2388.077	0.08%	98.53%
67.0	19.740	2.024	2390.101	0.08%	98.61%
68.0	19.062	1.966	2392.067	0.07%	98.69%
69.0	18.370	1.910	2393.976	0.07%	98.77%
70.0	17.727	1.854	2395.83	0.07%	98.85%
71.0	17.063	1.798	2397.628	0.07%	98.92%
72.0	16.461	1.743	2399.371	0.07%	98.99%
73.0	15.886	1.692	2401.063	0.06%	99.06%
74.0	15.374	1.643	2402.706	0.06%	99.13%
75.0	14.856	1.597	2404.304	0.06%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.357	1.551	2405.854	0.06%	99.26%
77.0	13.935	1.508	2407.363	0.06%	99.32%
78.0	13.465	1.467	2408.83	0.06%	99.38%
79.0	13.077	1.426	2410.256	0.05%	99.44%
80.0	12.697	1.390	2411.645	0.05%	99.50%
81.0	12.302	1.352	2412.997	0.05%	99.56%
82.0	11.970	1.316	2414.313	0.05%	99.61%
83.0	11.617	1.282	2415.596	0.05%	99.66%
84.0	11.306	1.249	2416.844	0.05%	99.72%
85.0	10.988	1.217	2418.061	0.05%	99.77%
86.0	10.711	1.186	2419.247	0.04%	99.81%
87.0	10.434	1.157	2420.404	0.04%	99.86%
88.0	10.199	1.130	2421.535	0.04%	99.91%
89.0	10.074	1.111	2422.646	0.04%	99.95%
90.0	10.012	1.101	2423.747	0.04%	100.00%

Zonal flux distribution table

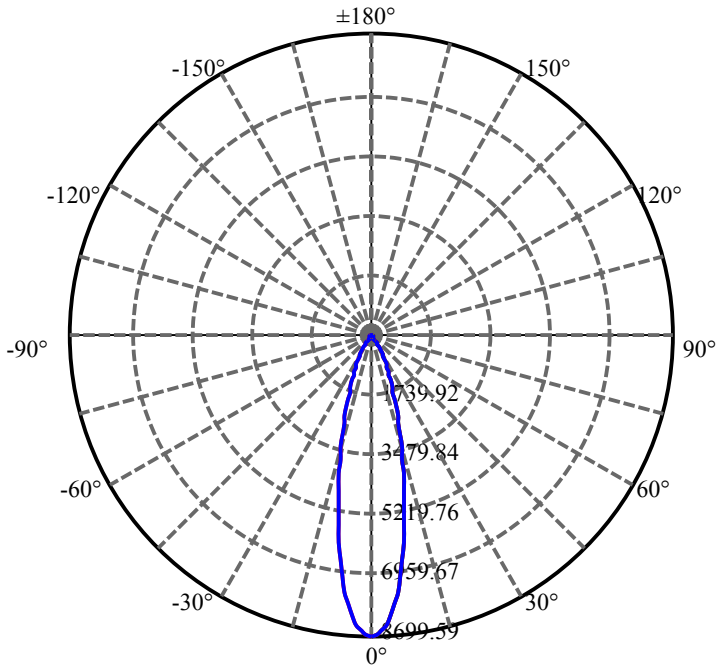
ZONAL LUMEN SUMMARY

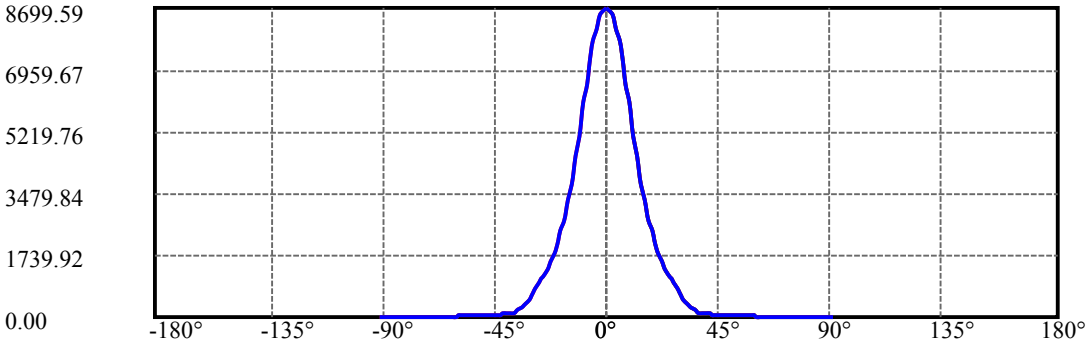
Zone	Lumens	%Lamp	%Fixt
0-30	2142.33	81.25%	88.39%
0-40	2297.82	87.15%	94.80%
0-60	2374.43	90.06%	97.97%
0-90	2422.65	91.89%	99.95%
0-120	2422.65	91.89%	99.95%
0-180	2423.75	91.93%	100.00%
60-90	48.22	1.83%	1.99%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.38	1939.00	73.54%	80.00%

ZONAL LUMEN SUMMARY

0-10	671.76
10-20	932.32
20-30	538.25
30-40	155.50
40-50	47.54
50-60	29.07
60-70	21.40
70-80	15.82
80-90	11.00
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:

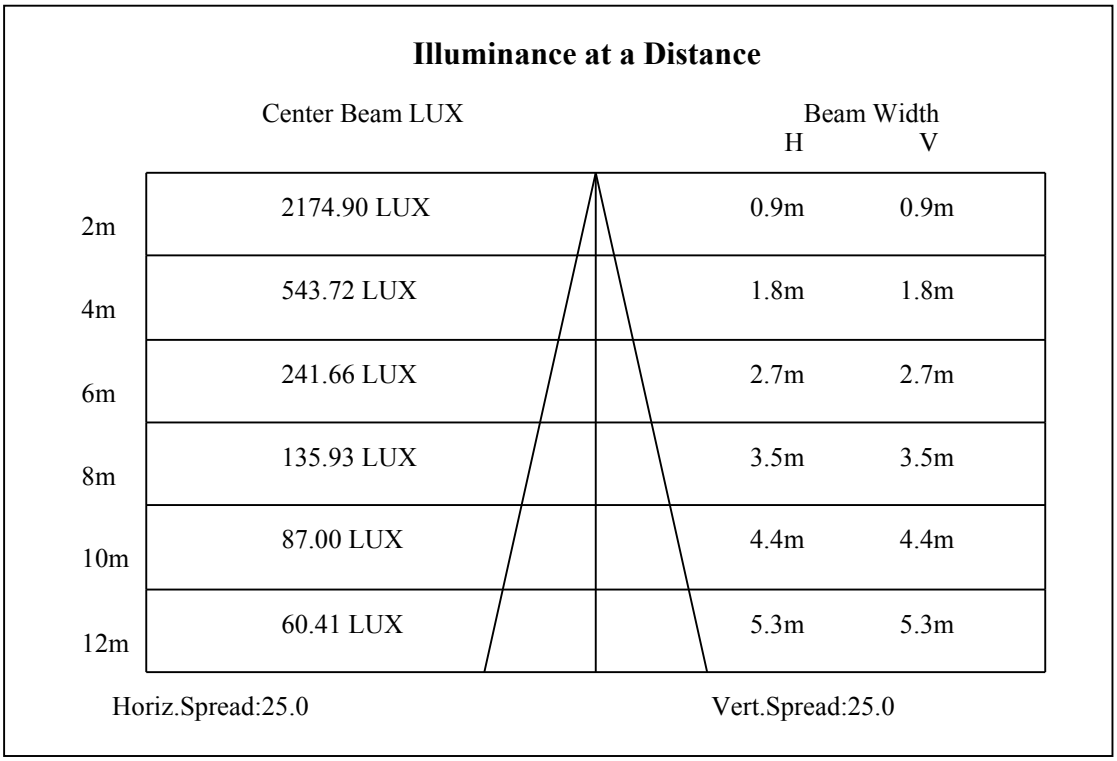
C90/C270:

Field angle(10%Imax):C0/180Left:27.7 Right:27.7
:C90/270Left:27.7 Right:27.7

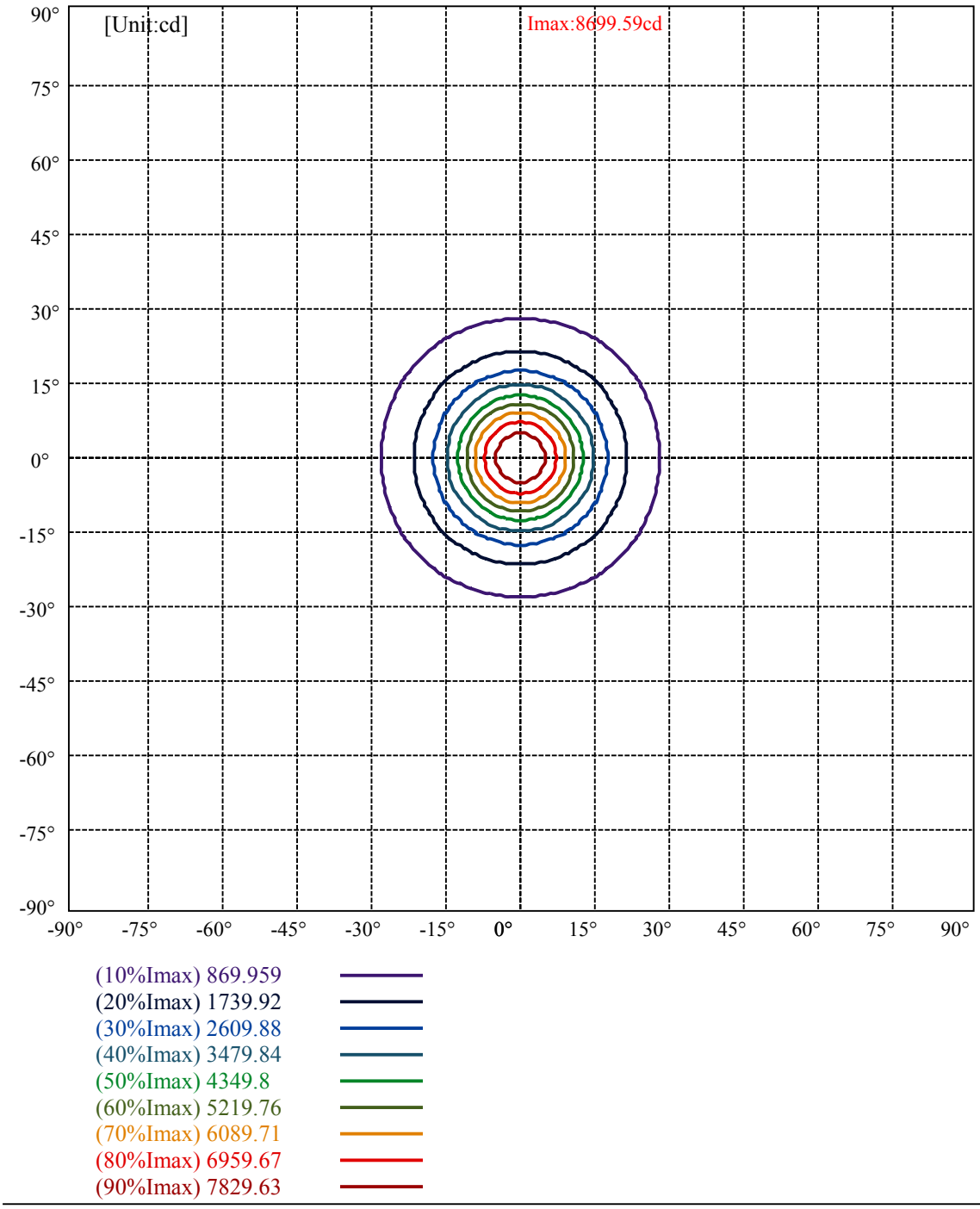
Beam Angle(50%Imax):C0/180Left:12.5 Right:12.5
:C90/270Left:12.5 Right:12.5

Equipment: GMS1980 Date: 2023/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

Lux distance Curve



ISO-Intensity(V-H)

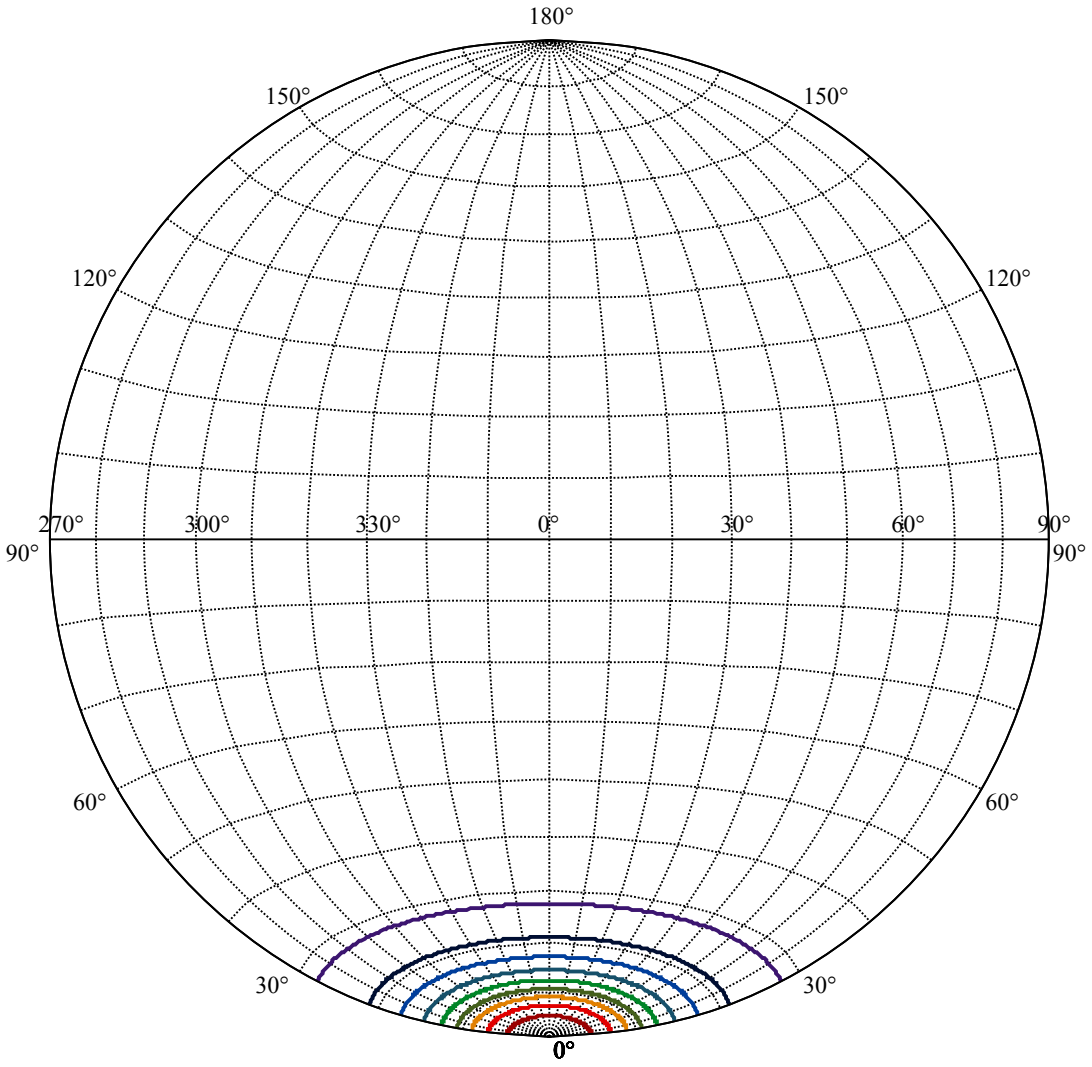


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



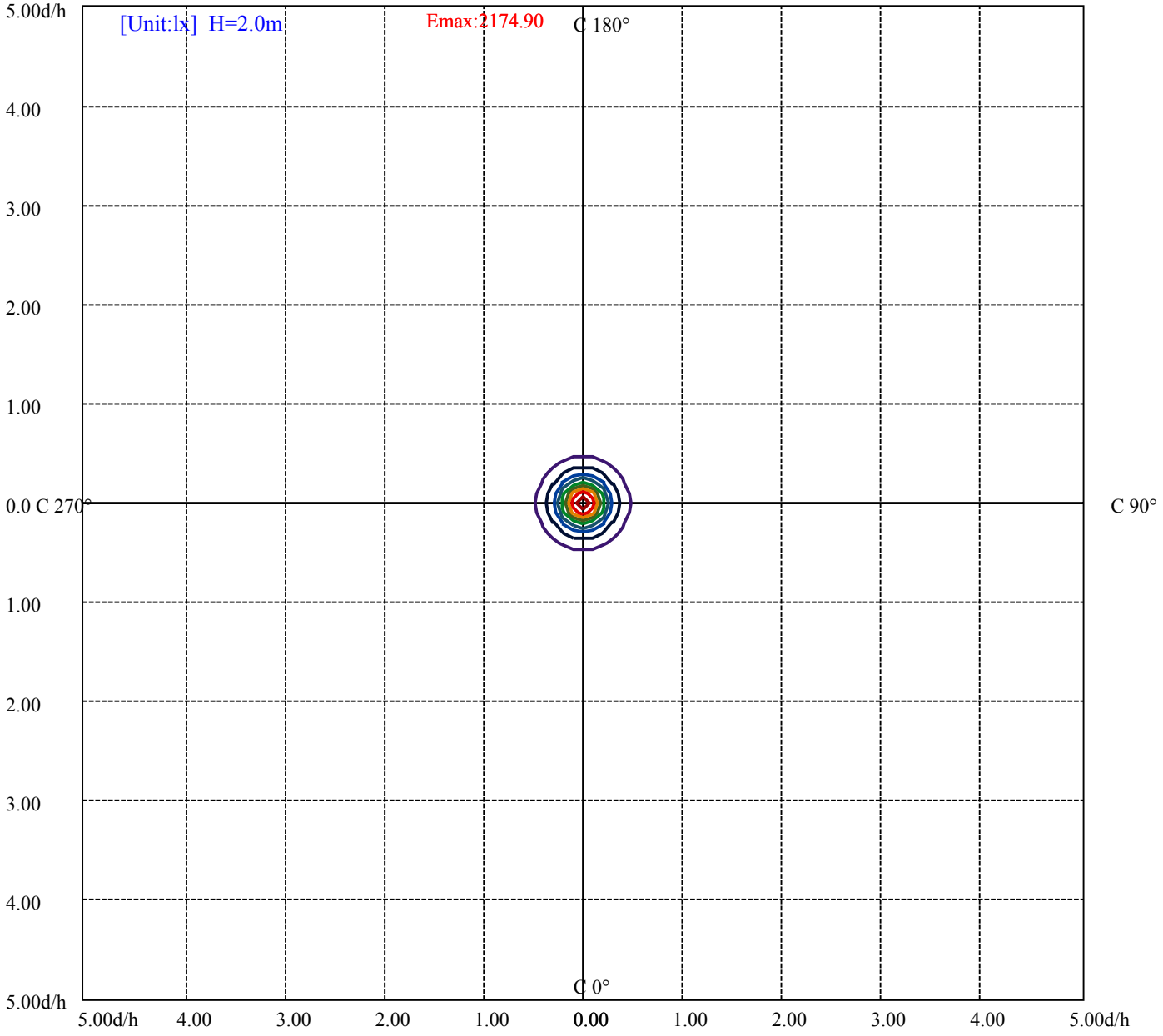
House [Unit:cd] Road

Imax:8699.59

(10%Imax) 869.959
(20%Imax) 1739.92
(30%Imax) 2609.88
(40%Imax) 3479.84
(50%Imax) 4349.8
(60%Imax) 5219.76
(70%Imax) 6089.71
(80%Imax) 6959.67
(90%Imax) 7829.63

Equipment: GMS1980	Date: 2023/7/18	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.44

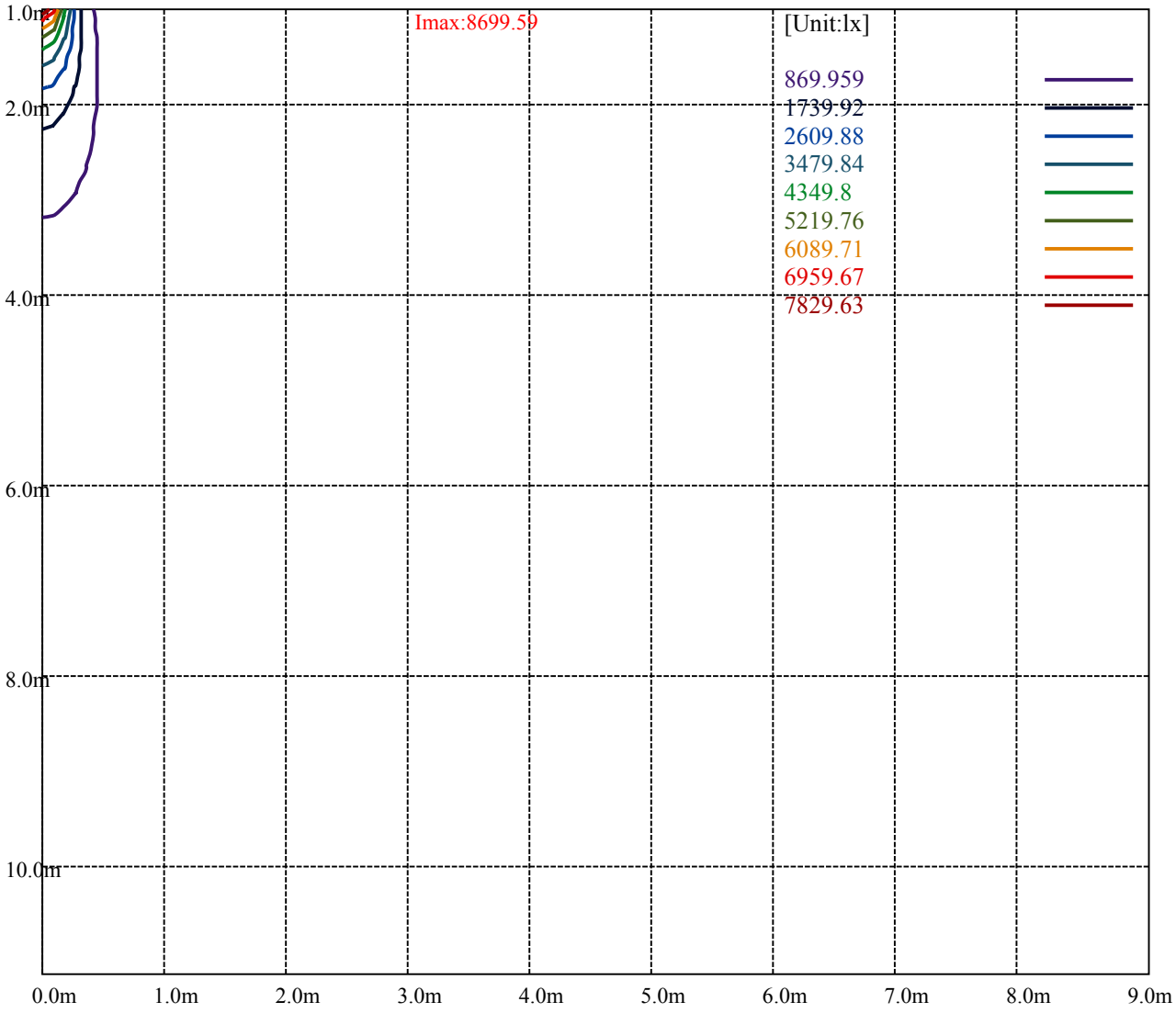
ISO illuminance diagram



(10%Emax) 217.4897
(20%Emax) 434.98
(30%Emax) 652.47
(40%Emax) 869.9575
(50%Emax) 1087.448
(60%Emax) 1304.938
(70%Emax) 1522.427
(80%Emax) 1739.917
(90%Emax) 1957.407

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2023/7/18
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

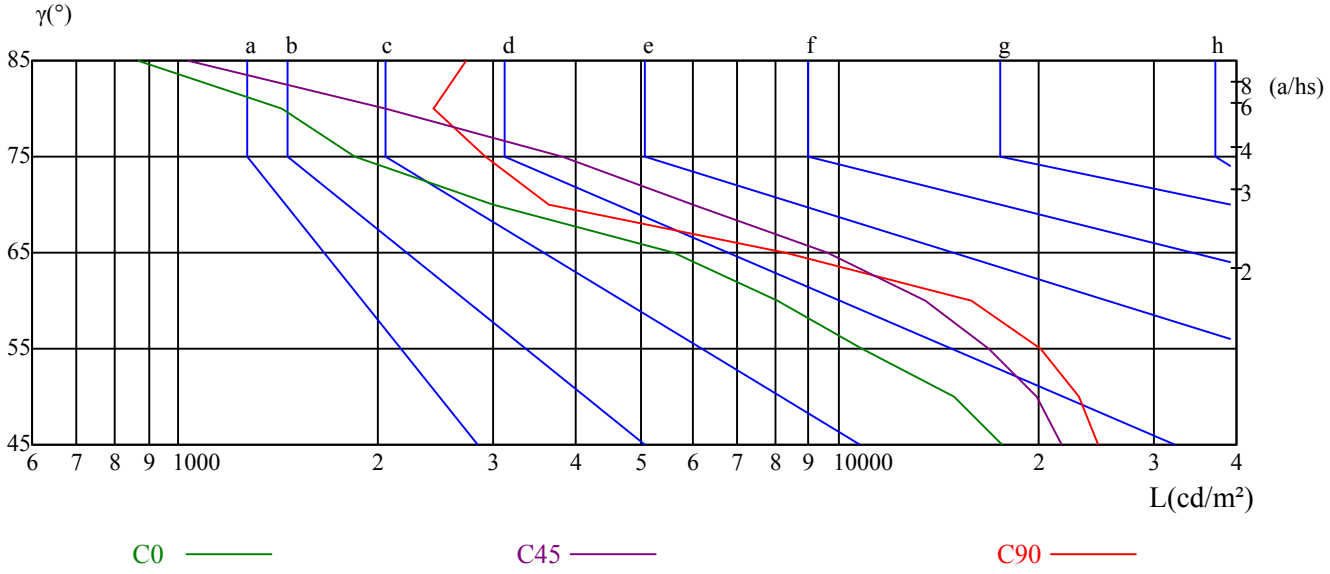
γ	45	50	55	60	65	70	75	80	85
C0	17707	14902	10843	8081	5637	2993	1851	1437	868
C45	21736	19918	16903	13532	9602	6004	3809	2064	1031
C90	24698	23118	20255	15854	8293	3645	2908	2436	2724

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10642	10437	15758	4678	3676	7686	4962	3969	5458

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

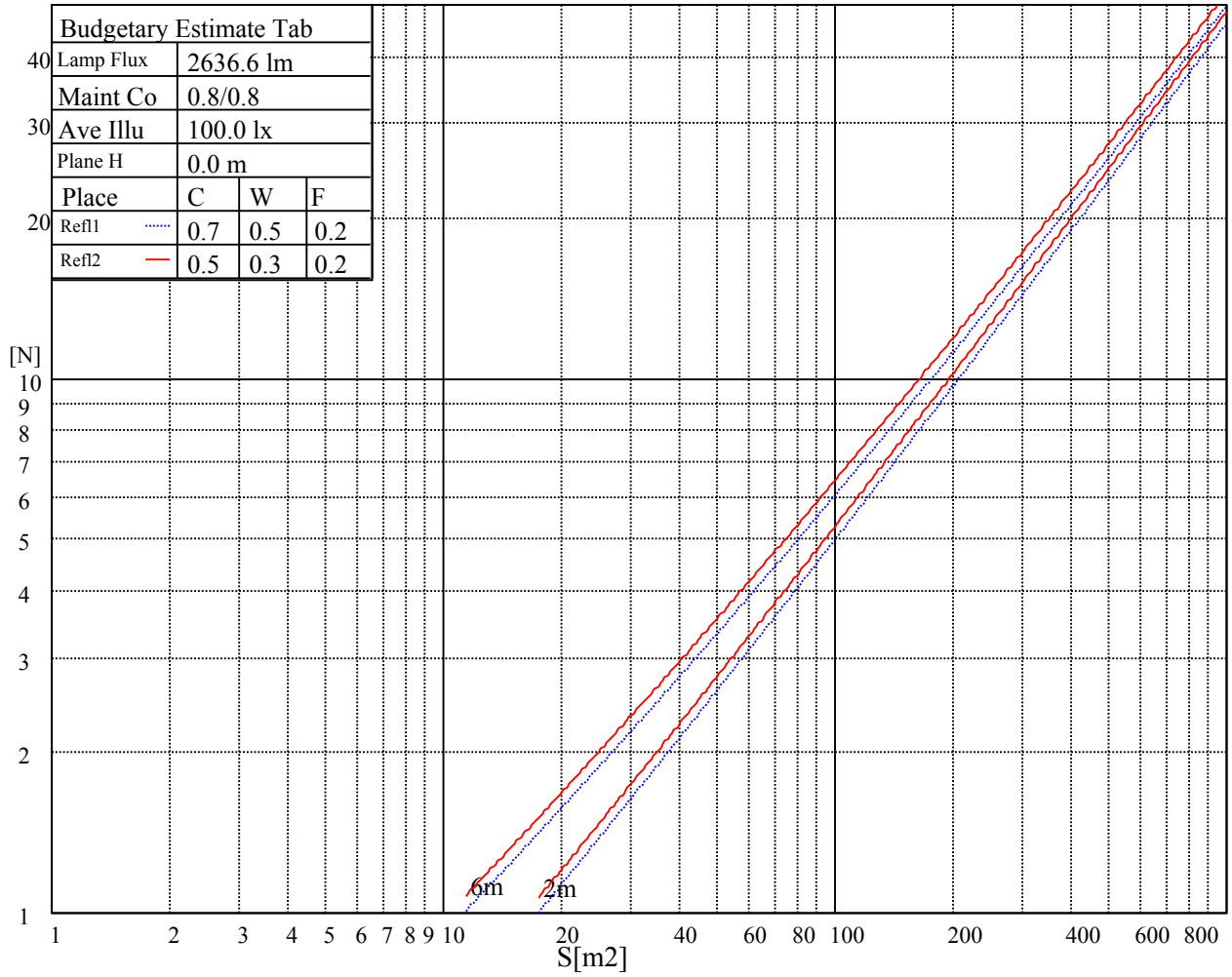
Luminance Limitting Curve



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	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H 2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
Variation with the observer position at spacings:										
S = 1.0H	非数字/非数字					非数字/非数字				
S = 1.5H	非数字/非数字					非数字/非数字				
S = 2.0H	非数字/非数字					非数字/非数字				
Standard tables:	BK0					BK0				
Uncorrected UGR	负无穷大					负无穷大				

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

Budgetary Estimate Table

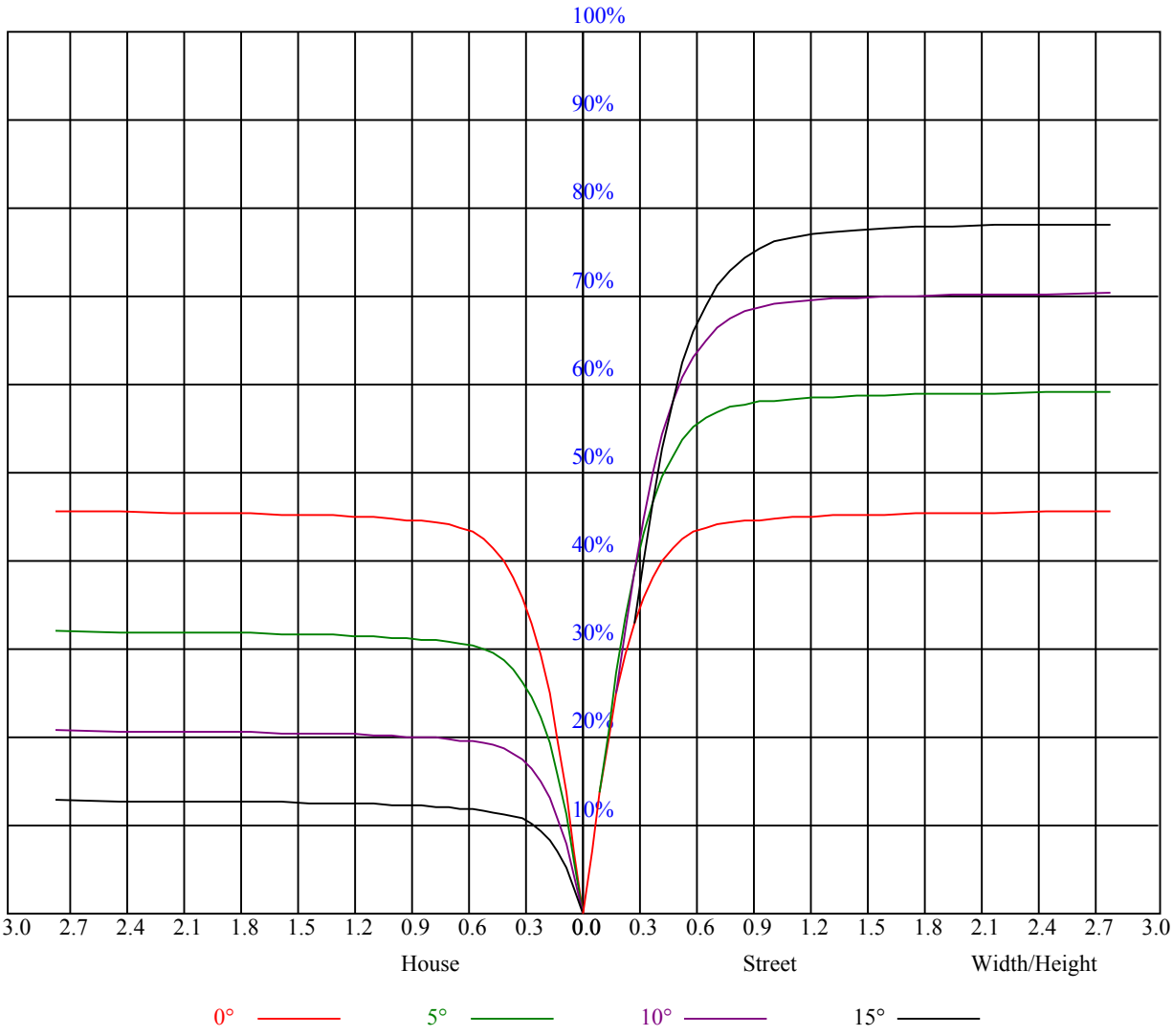


Equipment: GMS1980 Date: 2023/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.87
2	0.97	0.94	0.91	0.95	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.83
3	0.92	0.88	0.85	0.91	0.87	0.84	0.88	0.86	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.79
4	0.88	0.83	0.80	0.87	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.79	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.80	0.76	0.73	0.80	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
7	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.71	0.68	0.67
8	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.65
9	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.61

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/7/18	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.44

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	8682.16	8522.74	8339.52	8088.77	7727.31	7373.04	6975.05	6545.51	5928.32
45.0	8718.69	8651.71	8519.97	8340.63	8018.47	7704.61	7345.37	6842.76	6391.07
90.0	8652.82	8533.81	8302.98	8043.93	7733.95	7276.73	6863.79	6414.32	5815.39
135.0	8742.49	8685.48	8536.58	8363.32	8116.44	7736.72	7397.95	6889.25	6447.53
180.0	8682.16	8730.31	8707.07	8564.25	8396.53	8108.69	7839.12	7508.66	7137.24
225.0	8723.12	8721.46	8620.16	8410.37	8193.94	7937.10	7552.39	7174.32	6760.83
270.0	8652.82	8733.08	8722.56	8621.27	8466.28	8278.08	8040.06	7654.24	7294.44
315.0	8742.49	8713.15	8594.14	8416.46	8213.31	7939.87	7531.91	7158.83	6727.62
360.0	8682.16	8522.74	8339.52	8088.77	7727.31	7373.04	6975.05	6545.51	5928.32

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5436.78	4948.00	4504.07	3984.30	3622.84	3292.93	2914.31	2633.67	2331.99
45.0	5901.75	5403.56	4932.50	4369.56	3961.05	3493.86	3167.28	2869.48	2532.93
90.0	5319.98	4837.85	4283.21	3876.36	3509.36	3182.78	2810.80	2542.34	2307.64
135.0	5975.92	5490.47	4889.88	4439.30	4031.35	3647.19	3219.31	2914.87	2645.29
180.0	6621.90	6165.78	5685.31	5184.36	4599.83	4177.48	3791.67	3347.73	3053.25
225.0	6299.74	5701.92	5216.47	4747.62	4305.90	3806.06	3452.90	3137.39	2769.29
270.0	6769.69	6317.45	5835.87	5339.35	4737.66	4287.08	3884.11	3418.03	3114.14
315.0	6257.67	5642.14	5151.15	4576.03	4157.55	3768.97	3342.75	3034.98	2751.02
360.0	5436.78	4948.00	4504.07	3984.30	3622.84	3292.93	2914.31	2633.67	2331.99

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2121.09	1929.02	1744.69	1538.22	1390.43	1090.58	1090.58	1038.65	924.52
45.0	2294.35	2081.79	1846.54	1676.05	1512.20	1368.29	1252.60	1130.82	1030.63
90.0	2098.95	1865.36	1698.19	1500.03	1357.77	1091.13	1091.13	1013.69	908.52
135.0	2394.54	2122.20	1929.57	1754.10	1547.63	1400.39	1257.02	1158.50	1060.52
180.0	2774.27	2440.48	2196.93	2005.41	1780.67	1600.77	1446.33	1311.82	1183.40
225.0	2506.36	2212.43	2005.96	1822.74	1610.73	1456.30	1317.36	1081.17	1081.17
270.0	2822.98	2553.96	2250.07	2048.58	1873.66	1691.55	1493.38	1349.47	1202.22
315.0	2489.20	2195.82	1989.35	1805.58	1633.98	1439.69	1312.93	1081.61	1081.61
360.0	2121.09	1929.02	1744.69	1538.22	1390.43	1090.58	1090.58	1038.65	924.52

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	809.05	701.44	602.36	483.74	391.24	283.47	213.06	159.92	141.59
45.0	917.71	780.98	674.71	573.41	453.84	363.62	281.69	281.69	161.52
90.0	772.40	666.13	559.24	456.94	341.64	266.25	207.02	167.83	143.31
135.0	948.15	808.11	703.49	604.96	508.09	390.74	304.39	283.91	283.91
180.0	1089.86	979.70	866.23	738.92	637.62	538.54	419.52	333.73	293.32
225.0	979.54	871.10	764.93	635.13	535.82	437.51	346.73	246.54	185.71
270.0	1109.78	979.15	872.32	767.15	656.44	520.27	417.31	324.87	285.57
315.0	976.66	867.45	734.10	629.87	532.39	413.55	323.32	243.67	184.99
360.0	809.05	701.44	602.36	483.74	391.24	283.47	213.06	159.92	141.59

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	129.64	118.18	104.84	95.37	86.96	79.43	71.02	65.10	59.84
45.0	144.25	131.52	116.74	105.95	96.37	85.91	78.38	71.57	65.65
90.0	130.52	118.73	107.66	95.71	87.46	79.82	71.41	65.48	59.06
135.0	142.76	130.69	118.79	105.45	95.71	85.30	77.88	71.30	65.37
180.0	293.32	143.48	127.98	116.24	105.56	95.15	85.96	76.39	69.30
225.0	149.79	129.31	117.52	103.46	93.22	84.03	75.95	67.53	61.50
270.0	285.57	147.35	133.29	121.50	110.21	97.48	88.12	78.05	71.24
315.0	147.41	133.51	121.22	109.77	96.65	87.29	79.10	70.58	64.49
360.0	129.64	118.18	104.84	95.37	86.96	79.43	71.02	65.10	59.84

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	55.24	50.32	46.77	43.23	40.63	38.36	36.20	34.65	33.43
45.0	59.23	54.63	50.70	46.33	43.34	40.08	38.14	36.31	34.76
90.0	54.52	50.54	47.11	43.51	40.91	38.75	36.87	34.82	33.54
135.0	59.12	54.63	50.76	47.27	43.62	40.91	38.75	36.59	34.87
180.0	63.38	58.23	52.86	49.21	45.89	42.57	40.19	37.53	35.87
225.0	56.35	52.09	47.44	44.39	41.63	39.47	36.87	35.20	33.43
270.0	65.15	58.62	54.25	50.54	46.39	43.56	41.07	38.75	36.42
315.0	59.34	53.86	50.04	45.72	42.90	40.46	38.19	36.37	34.43
360.0	55.24	50.32	46.77	43.23	40.63	38.36	36.20	34.65	33.43

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	32.38	31.00	30.17	29.34	28.12	26.68	25.63	24.47	23.19
45.0	33.38	32.38	31.16	30.33	29.12	27.95	26.63	25.57	24.24
90.0	32.55	31.11	30.06	29.12	27.62	26.46	25.35	23.97	22.97
135.0	33.54	32.22	31.11	30.00	28.78	27.73	26.51	25.13	24.08
180.0	34.32	32.66	31.77	30.61	29.61	28.51	27.46	26.35	25.30
225.0	32.11	31.16	30.11	29.06	28.34	27.51	26.24	25.19	24.24
270.0	34.87	33.38	32.22	30.94	29.84	28.95	27.84	26.74	25.41
315.0	32.99	32.05	30.83	29.84	28.95	28.01	26.63	25.63	24.36
360.0	32.38	31.00	30.17	29.34	28.12	26.68	25.63	24.47	23.19

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.36	21.53	20.48	19.82	19.04	18.32	17.71	17.10	16.55
45.0	23.14	22.03	21.26	20.48	19.65	18.99	18.38	17.71	16.94
90.0	22.14	21.09	20.31	19.60	18.99	18.10	17.49	16.88	16.33
135.0	23.08	22.25	21.31	20.48	19.76	19.15	18.38	17.66	16.88
180.0	24.08	22.97	22.09	21.15	20.37	19.65	18.88	18.32	17.55
225.0	23.30	22.14	21.37	20.65	19.71	19.15	18.43	17.82	17.21
270.0	24.47	23.36	22.36	21.37	20.59	19.87	19.21	18.49	17.82
315.0	23.25	22.31	21.59	20.59	19.82	19.26	18.49	17.82	17.21
360.0	22.36	21.53	20.48	19.82	19.04	18.32	17.71	17.10	16.55

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.89	15.39	14.95	14.39	13.95	13.56	13.06	12.73	12.40
45.0	16.38	15.78	15.28	14.72	14.28	13.84	13.34	13.01	12.62
90.0	15.61	15.17	14.61	14.17	13.73	13.23	12.84	12.51	12.18
135.0	16.38	15.83	15.22	14.72	14.34	13.89	13.40	13.01	12.68
180.0	16.99	16.44	16.00	15.39	14.89	14.56	14.12	13.67	13.23
225.0	16.55	16.00	15.50	15.06	14.45	14.06	13.62	13.23	12.79
270.0	17.21	16.50	16.00	15.44	14.89	14.39	13.84	13.45	13.06
315.0	16.66	16.00	15.44	14.95	14.34	13.95	13.51	13.01	12.62
360.0	15.89	15.39	14.95	14.39	13.95	13.56	13.06	12.73	12.40

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.96	11.68	11.35	11.02	10.68	10.46	10.24	10.02	10.02
45.0	12.23	11.90	11.46	11.18	10.85	10.57	10.30	10.13	9.96
90.0	11.79	11.46	11.24	10.90	10.63	10.41	10.24	9.96	10.02
135.0	12.23	11.96	11.57	11.24	10.90	10.57	10.35	10.13	9.96
180.0	12.84	12.51	12.07	11.79	11.46	11.18	10.74	10.41	10.24
225.0	12.45	12.07	11.73	11.46	11.18	10.85	10.52	10.30	10.13
270.0	12.68	12.29	11.96	11.62	11.29	11.02	10.68	10.46	10.24
315.0	12.23	11.90	11.57	11.24	10.90	10.63	10.41	10.19	10.02
360.0	11.96	11.68	11.35	11.02	10.68	10.46	10.24	10.02	10.02

Intensity data(cd)

C/γ(°)	90.0
0.0	10.07
45.0	10.02
90.0	10.02
135.0	10.02
180.0	10.02
225.0	9.96
270.0	10.07
315.0	9.91
360.0	10.07