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NATA

Client:
LumCAT: 2-2644-L
Luminaire: 92.70.412.00
Report No: 20231008-B004
Ballast type: AC

Test No: 20231008-C004	Voltage(V): 35.960
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.540
Lamp flux(lm): 2889.2	Power (W): 19.418
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2625.43, Efficiency(%): 90.87% , Luminous Efficacy(lm/W): 135.21
Central intensity(cd): 8868.837, Maximum intensity(cd): 8868.837
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=26.0
[C90/270]Total=26.0
Field angle(10%Imax): [C0/180]Total=56.4
[C90/270]Total=56.4
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
Maximum s/h(1/4): C0_180=0.47 C90_270=0.47
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.87%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.881%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8868.837	0.000	0	0.00%	0.00%
1.0	8833.203	8.470	8.47	0.29%	0.32%
2.0	8715.507	25.188	33.658	0.87%	1.28%
3.0	8551.038	41.296	74.954	1.43%	2.85%
4.0	8298.972	56.402	131.356	1.95%	5.00%
5.0	8006.843	70.147	201.503	2.43%	7.68%
6.0	7658.184	82.324	283.827	2.85%	10.81%
7.0	7259.984	92.597	376.423	3.20%	14.34%
8.0	6831.548	100.850	477.274	3.49%	18.18%
9.0	6327.415	106.646	583.92	3.69%	22.24%
10.0	5831.170	110.031	693.951	3.81%	26.43%
11.0	5360.111	111.824	805.775	3.87%	30.69%
12.0	4876.597	111.902	917.677	3.87%	34.95%
13.0	4421.037	110.339	1028.016	3.82%	39.16%
14.0	4009.898	107.915	1135.931	3.74%	43.27%
15.0	3650.861	105.170	1241.102	3.64%	47.27%
16.0	3298.189	101.823	1342.925	3.52%	51.15%
17.0	2988.831	97.906	1440.83	3.39%	54.88%
18.0	2705.905	93.894	1534.724	3.25%	58.46%
19.0	2451.417	89.727	1624.451	3.11%	61.87%
20.0	2197.206	85.083	1709.534	2.94%	65.11%
21.0	1988.938	80.382	1789.916	2.78%	68.18%
22.0	1791.326	75.966	1865.882	2.63%	71.07%
23.0	1604.853	71.261	1937.143	2.47%	73.78%
24.0	1401.899	65.738	2002.882	2.28%	76.29%
25.0	1273.686	60.837	2063.719	2.11%	78.60%
26.0	1138.790	56.947	2120.665	1.97%	80.77%
27.0	1036.835	53.227	2173.892	1.84%	82.80%
28.0	910.864	49.312	2223.204	1.71%	84.68%
29.0	788.235	44.453	2267.657	1.54%	86.37%
30.0	670.616	39.389	2307.046	1.36%	87.87%
31.0	551.792	34.018	2341.064	1.18%	89.17%
32.0	449.713	28.692	2369.756	0.99%	90.26%
33.0	353.204	23.654	2393.41	0.82%	91.16%
34.0	282.130	19.227	2412.637	0.67%	91.89%
35.0	240.449	16.229	2428.867	0.56%	92.51%
36.0	197.564	13.946	2442.813	0.48%	93.04%
37.0	154.360	11.478	2454.291	0.40%	93.48%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	137.858	9.754	2464.045	0.34%	93.85%
39.0	123.390	8.917	2472.962	0.31%	94.19%
40.0	111.164	8.180	2481.142	0.28%	94.50%
41.0	100.501	7.537	2488.679	0.26%	94.79%
42.0	90.558	6.942	2495.621	0.24%	95.06%
43.0	82.477	6.410	2502.031	0.22%	95.30%
44.0	74.990	5.943	2507.974	0.21%	95.53%
45.0	68.666	5.521	2513.495	0.19%	95.74%
46.0	63.345	5.163	2518.658	0.18%	95.93%
47.0	58.045	4.828	2523.486	0.17%	96.12%
48.0	54.046	4.531	2528.017	0.16%	96.29%
49.0	50.476	4.292	2532.309	0.15%	96.45%
50.0	47.154	4.071	2536.38	0.14%	96.61%
51.0	44.414	3.874	2540.254	0.13%	96.76%
52.0	42.013	3.709	2543.962	0.13%	96.90%
53.0	39.938	3.565	2547.527	0.12%	97.03%
54.0	38.215	3.445	2550.972	0.12%	97.16%
55.0	36.762	3.347	2554.319	0.12%	97.29%
56.0	35.392	3.260	2557.579	0.11%	97.42%
57.0	34.112	3.178	2560.757	0.11%	97.54%
58.0	32.832	3.096	2563.853	0.11%	97.65%
59.0	31.628	3.014	2566.866	0.10%	97.77%
60.0	30.251	2.923	2569.79	0.10%	97.88%
61.0	28.908	2.823	2572.613	0.10%	97.99%
62.0	27.663	2.726	2575.339	0.09%	98.09%
63.0	26.424	2.631	2577.969	0.09%	98.19%
64.0	25.283	2.537	2580.506	0.09%	98.29%
65.0	24.314	2.455	2582.961	0.08%	98.38%
66.0	23.366	2.379	2585.34	0.08%	98.47%
67.0	22.494	2.306	2587.646	0.08%	98.56%
68.0	21.657	2.237	2589.882	0.08%	98.65%
69.0	20.917	2.172	2592.054	0.08%	98.73%
70.0	20.135	2.108	2594.163	0.07%	98.81%
71.0	19.381	2.042	2596.205	0.07%	98.89%
72.0	18.654	1.978	2598.183	0.07%	98.96%
73.0	18.018	1.918	2600.1	0.07%	99.04%
74.0	17.409	1.862	2601.963	0.06%	99.11%
75.0	16.821	1.809	2603.771	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.309	1.759	2605.53	0.06%	99.24%
77.0	15.783	1.711	2607.241	0.06%	99.31%
78.0	15.264	1.662	2608.903	0.06%	99.37%
79.0	14.759	1.613	2610.516	0.06%	99.43%
80.0	14.295	1.566	2612.082	0.05%	99.49%
81.0	13.845	1.522	2613.604	0.05%	99.55%
82.0	13.375	1.476	2615.08	0.05%	99.61%
83.0	12.967	1.432	2616.512	0.05%	99.66%
84.0	12.551	1.390	2617.902	0.05%	99.71%
85.0	12.088	1.345	2619.247	0.05%	99.76%
86.0	11.652	1.298	2620.545	0.04%	99.81%
87.0	11.334	1.258	2621.803	0.04%	99.86%
88.0	11.071	1.227	2623.03	0.04%	99.91%
89.0	10.932	1.206	2624.236	0.04%	99.95%
90.0	10.835	1.193	2625.43	0.04%	100.00%

Zonal flux distribution table

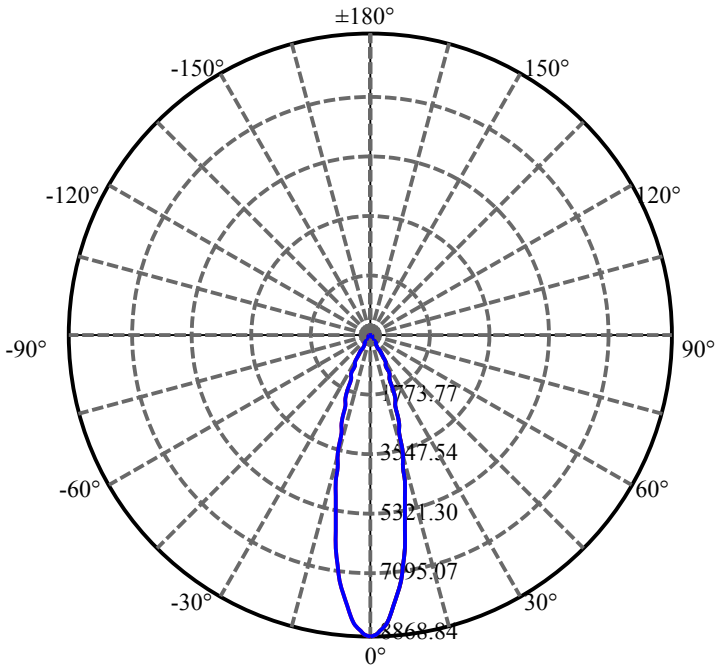
ZONAL LUMEN SUMMARY

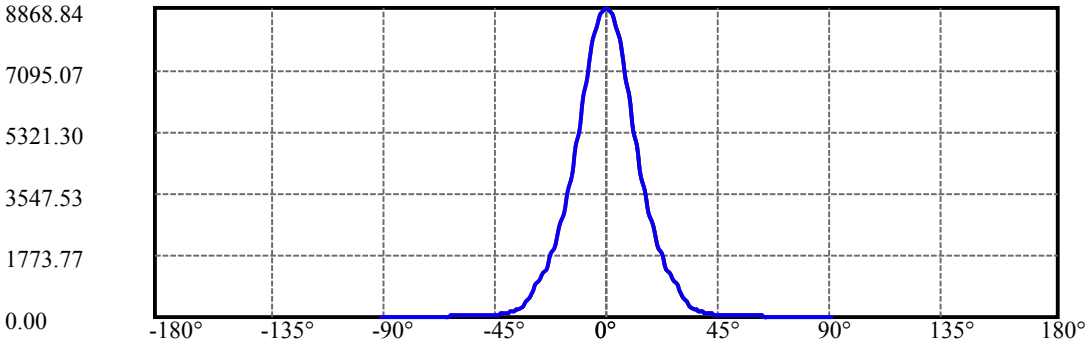
Zone	Lumens	%Lamp	%Fixt
0-30	2307.05	79.85%	87.87%
0-40	2481.14	85.88%	94.50%
0-60	2569.79	88.94%	97.88%
0-90	2624.24	90.83%	99.95%
0-120	2624.24	90.83%	99.95%
0-180	2625.43	90.87%	100.00%
60-90	54.45	1.88%	2.07%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.64	2100.34	72.70%	80.00%

ZONAL LUMEN SUMMARY

0-10	693.95
10-20	1015.58
20-30	597.51
30-40	174.10
40-50	55.24
50-60	33.41
60-70	24.37
70-80	17.92
80-90	12.15
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):

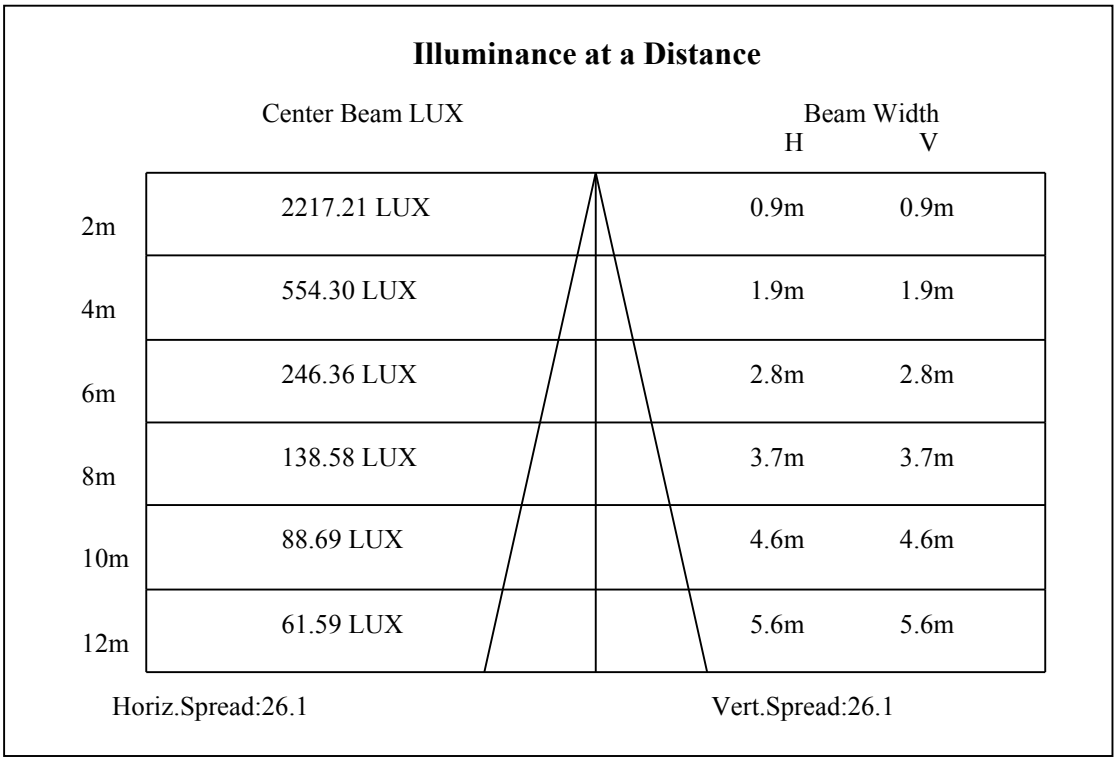
C0/C180:

C90/C270:

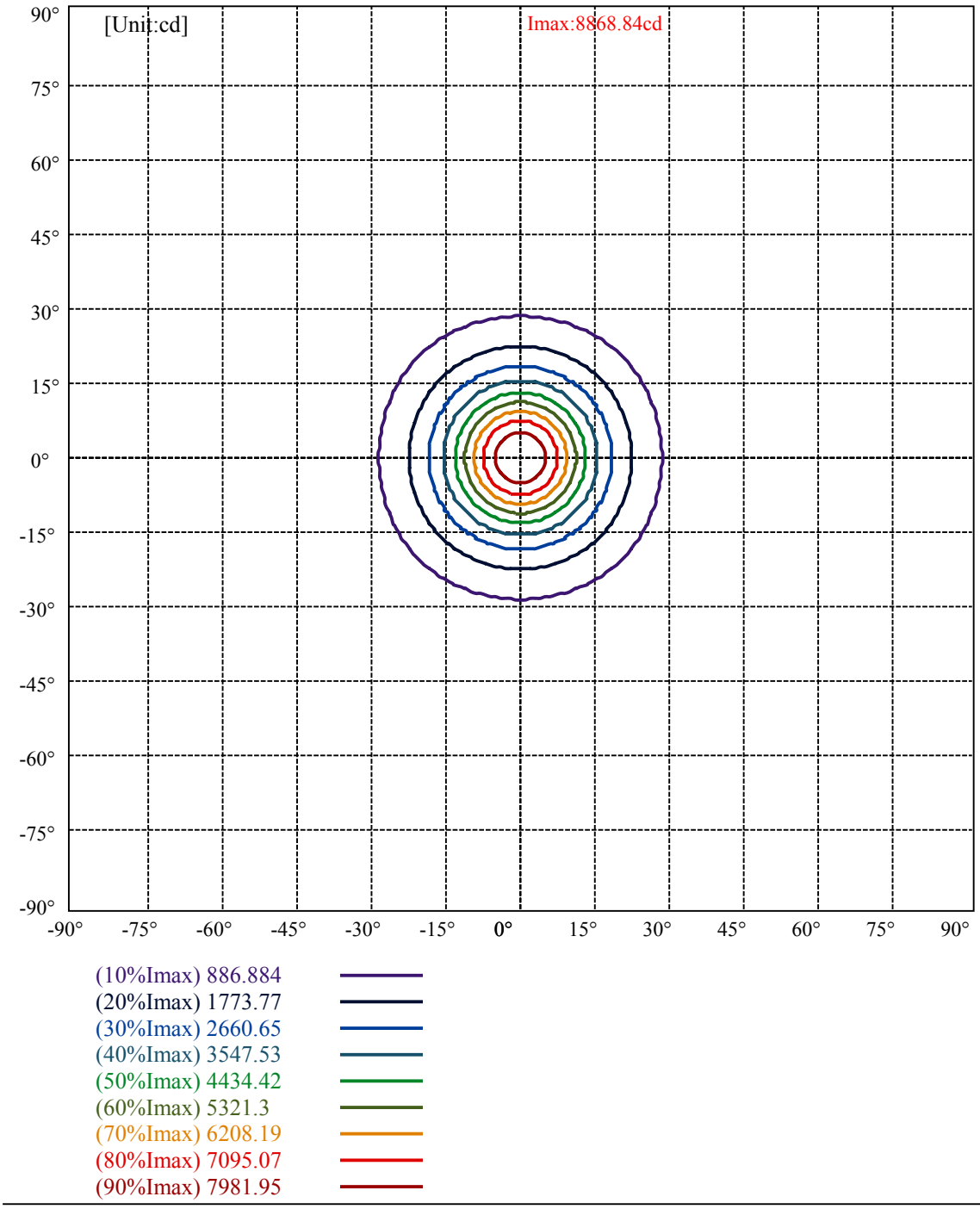
Field angle(10%Imax):C0/180Left:28.2 Right:28.2
:C90/270Left:28.2 Right:28.2

Beam Angle(50%Imax):C0/180Left:13.0 Right:13.0
:C90/270Left:13.0 Right:13.0

Lux distance Curve



ISO-Intensity(V-H)

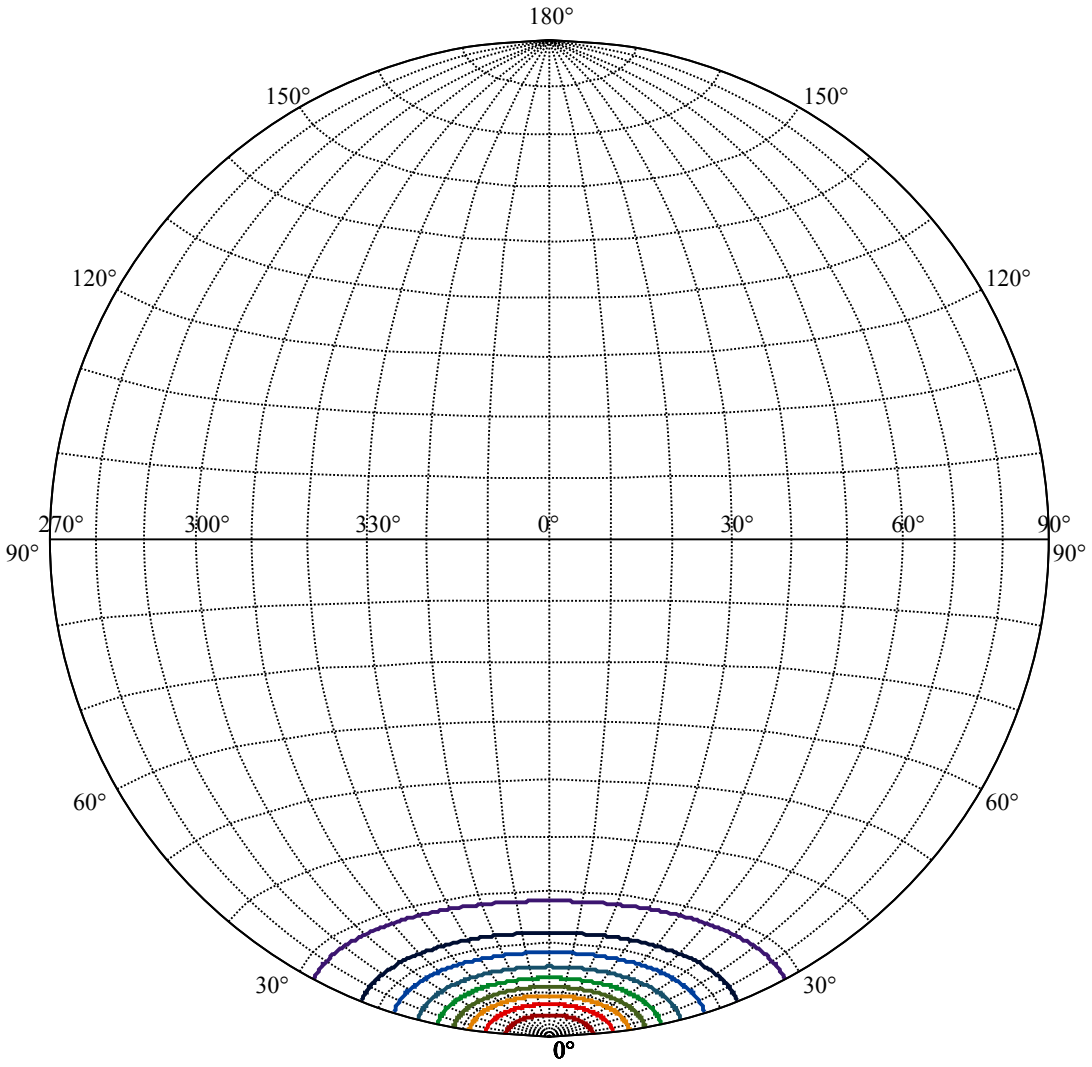


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/08
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:8868.84

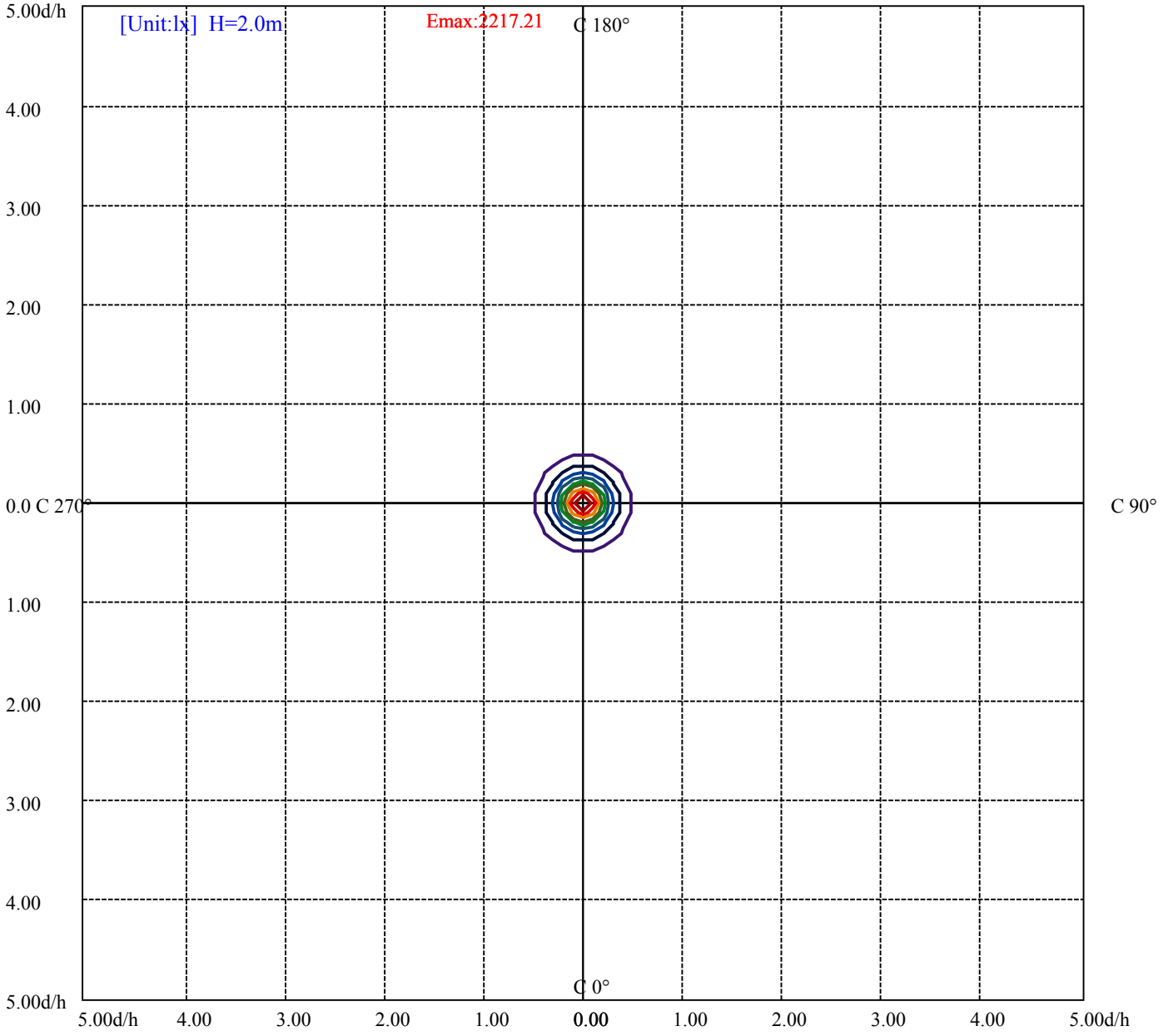
(10%Imax) 886.884
(20%Imax) 1773.77
(30%Imax) 2660.65
(40%Imax) 3547.53
(50%Imax) 4434.42
(60%Imax) 5321.3
(70%Imax) 6208.19
(80%Imax) 7095.07
(90%Imax) 7981.95

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/08
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO illuminance diagram

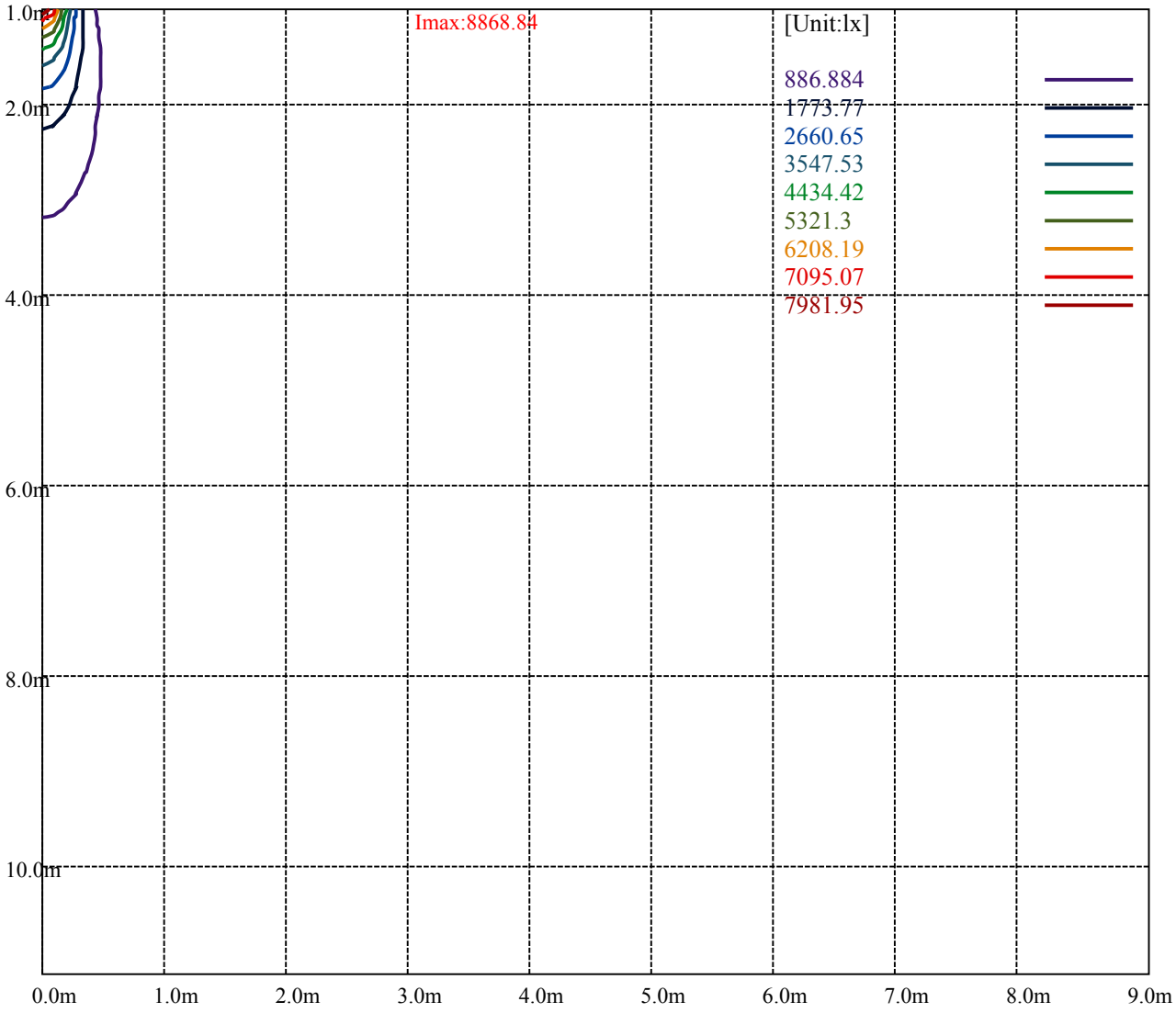


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/08
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/08
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

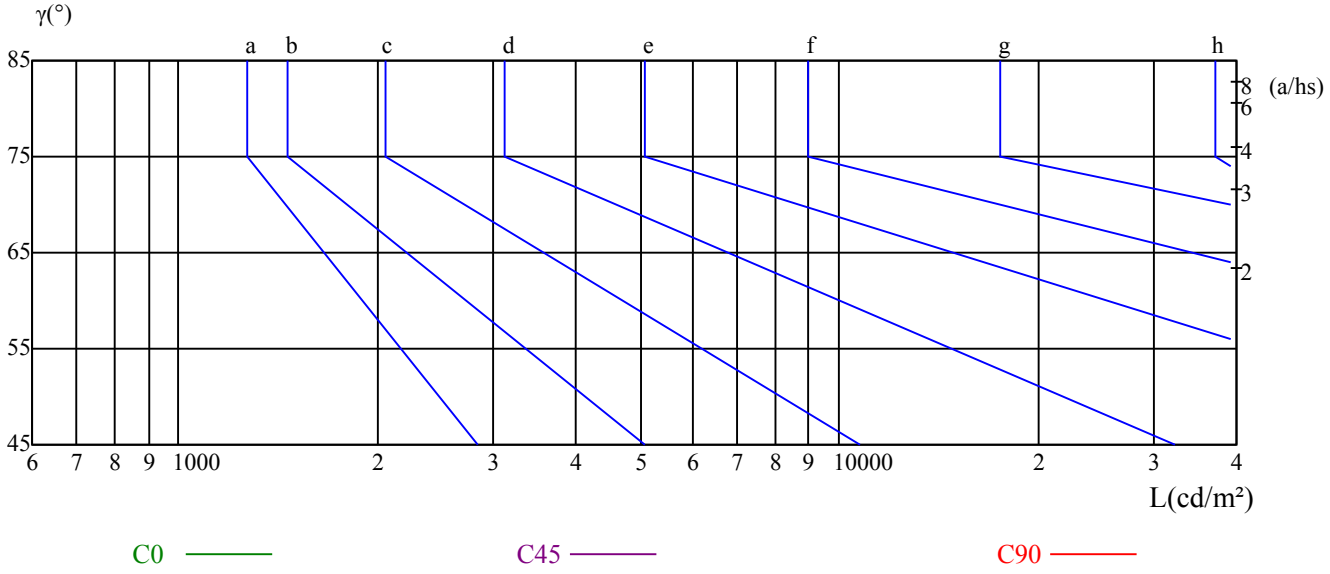
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

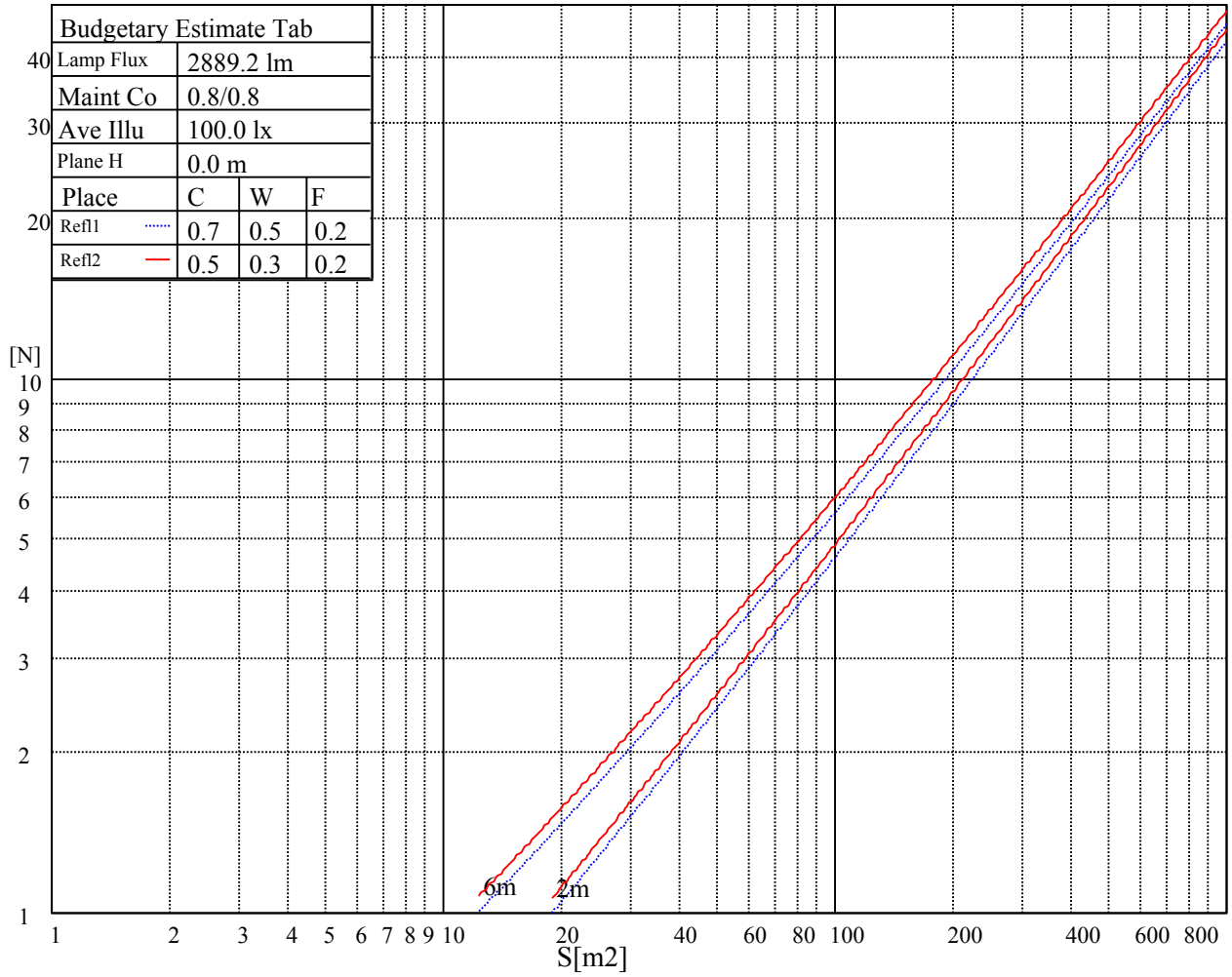


UGR Glare

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

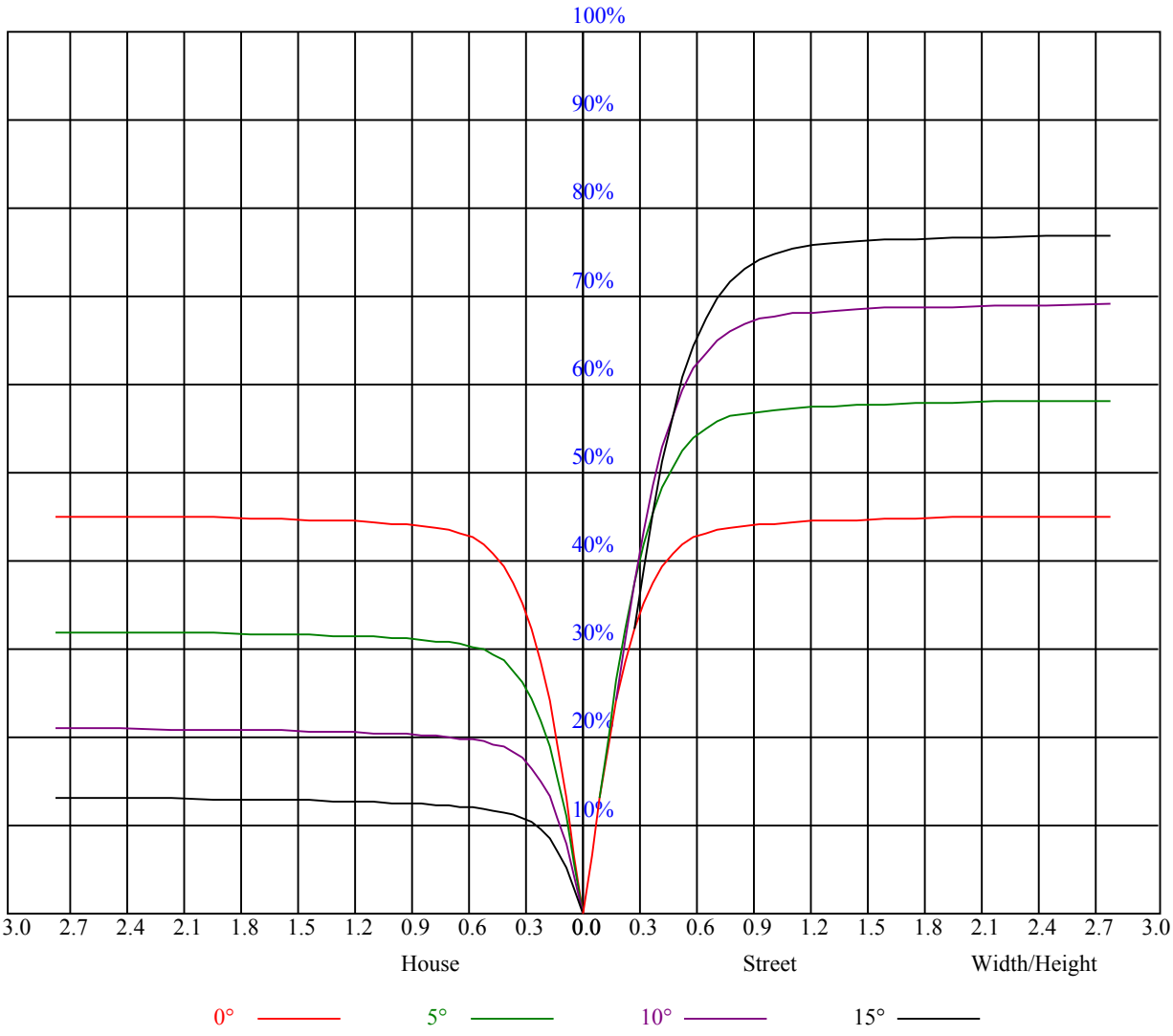


Equipment: GMS1980 Date: 2023/10/08 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.98	0.99	0.98	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.86
2	0.96	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.82	0.78	0.75	0.82	0.78	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.71
6	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
8	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.68	0.64	0.62	0.61
10	0.68	0.63	0.61	0.67	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.59

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/08	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	8824.97	8701.53	8523.29	8301.32	8016.81	7596.67	7205.32	6784.08	6319.67
45.0	8903.57	8848.22	8706.51	8535.47	8234.90	7931.01	7593.91	7198.68	6662.30
90.0	8838.81	8723.12	8493.40	8257.04	7865.69	7512.54	7115.10	6578.17	6123.16
135.0	8908.00	8843.79	8707.62	8545.99	8254.27	7970.31	7565.12	7170.45	6744.23
180.0	8824.97	8886.97	8855.41	8766.29	8567.02	8358.34	8030.09	7718.45	7353.67
225.0	8903.57	8865.93	8735.85	8558.72	8375.50	8110.35	7736.72	7369.72	6954.57
270.0	8838.81	8905.23	8905.79	8798.95	8640.09	8463.51	8210.54	7825.84	7464.93
315.0	8908.00	8890.84	8796.19	8644.52	8437.49	8112.01	7808.68	7434.49	7029.85
360.0	8824.97	8701.53	8523.29	8301.32	8016.81	7596.67	7205.32	6784.08	6319.67

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5713.54	5262.41	4817.92	4305.35	3941.67	3518.77	3212.67	2922.06	2602.67
45.0	6187.37	5724.06	5269.61	4723.27	4312.54	3939.46	3514.34	3193.29	2905.46
90.0	5656.53	5080.30	4650.20	4249.44	3884.66	3481.69	3172.81	2889.40	2636.44
135.0	6176.30	5721.85	5260.20	4711.64	4308.12	3937.25	3591.29	3199.94	2916.53
180.0	6850.51	6428.16	5964.30	5494.34	4921.99	4495.76	4104.41	3744.62	3328.91
225.0	6512.30	5934.96	5469.99	5012.77	4479.71	4093.34	3737.97	3337.77	3045.50
270.0	7070.81	6520.05	6055.63	5574.61	4992.29	4561.08	4173.61	3717.49	3390.35
315.0	6451.96	5977.58	5393.05	4941.36	4527.32	4051.83	3699.78	3380.94	3084.80
360.0	5713.54	5262.41	4817.92	4305.35	3941.67	3518.77	3212.67	2922.06	2602.67

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2372.40	2154.86	1951.16	1714.80	1548.18	1406.48	1092.29	1092.29	1000.02
45.0	2591.05	2353.58	2093.42	1893.59	1711.48	1545.97	1379.36	1259.79	1130.82
90.0	2347.49	2135.49	1890.27	1707.05	1544.31	1380.46	1093.95	1093.95	969.13
135.0	2660.79	2422.77	2158.18	1967.77	1739.15	1569.22	1431.94	1276.95	1147.98
180.0	3058.78	2772.61	2467.61	2250.62	2048.58	1801.70	1615.72	1466.82	1311.82
225.0	2768.73	2463.18	2237.89	2030.87	1844.88	1621.81	1470.14	1254.26	1096.28
270.0	3109.16	2815.23	2514.66	2293.24	2079.58	1879.75	1645.05	1507.78	1372.71
315.0	2738.84	2493.62	2264.46	2053.56	1814.44	1633.43	1486.74	1237.65	1081.55
360.0	2372.40	2154.86	1951.16	1714.80	1548.18	1406.48	1092.29	1092.29	1000.02

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	876.41	758.18	616.20	510.30	390.30	307.38	243.11	189.81	166.50
45.0	1005.17	855.16	740.58	629.87	526.36	405.13	320.44	283.91	283.91
90.0	849.51	740.47	634.41	536.32	415.93	330.18	258.11	205.36	168.39
135.0	1019.56	897.78	756.07	649.80	547.39	448.31	337.60	280.03	280.03
180.0	1185.07	1067.72	947.60	804.79	689.65	577.84	472.66	354.76	294.98
225.0	1067.44	948.37	835.01	720.15	581.10	476.93	360.13	281.81	220.69
270.0	1209.97	1085.98	961.99	813.09	697.95	588.91	463.25	370.81	291.66
315.0	1081.55	933.26	814.03	700.61	565.66	463.03	370.32	290.55	217.43
360.0	876.41	758.18	616.20	510.30	390.30	307.38	243.11	189.81	166.50

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	150.45	136.50	120.67	109.82	100.02	91.33	81.59	74.78	68.86
45.0	163.79	148.18	130.97	118.90	108.22	96.54	88.23	80.71	74.17
90.0	151.00	136.45	121.06	110.38	98.20	89.84	82.20	75.39	68.03
135.0	171.54	149.95	135.23	122.11	108.38	98.97	88.57	81.04	74.51
180.0	294.98	169.82	151.45	133.24	119.79	108.55	96.15	87.46	79.65
225.0	173.26	152.72	136.94	119.34	107.55	97.15	88.07	78.33	71.74
270.0	291.66	177.13	158.26	142.65	128.59	113.81	103.62	94.60	84.69
315.0	183.83	164.12	148.29	130.69	118.57	107.83	96.04	87.51	78.27
360.0	150.45	136.50	120.67	109.82	100.02	91.33	81.59	74.78	68.86

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	62.22	57.68	52.81	49.54	46.50	43.40	41.29	39.58	38.03
45.0	66.98	62.05	57.46	53.53	49.26	46.22	43.73	41.02	39.08
90.0	62.88	58.40	54.47	50.21	47.16	44.67	42.51	39.97	38.42
135.0	68.75	62.49	58.07	54.08	50.76	47.00	44.45	42.35	39.97
180.0	72.79	67.03	60.78	56.63	52.81	49.65	46.11	43.51	40.91
225.0	65.93	60.94	55.69	51.98	48.66	45.17	42.73	40.19	38.47
270.0	77.83	71.85	65.04	60.34	56.24	51.87	48.71	45.94	43.01
315.0	71.96	66.31	60.06	56.07	52.42	49.26	45.78	43.56	41.63
360.0	62.22	57.68	52.81	49.54	46.50	43.40	41.29	39.58	38.03

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	36.53	35.15	34.21	33.05	31.39	30.11	29.01	27.40	26.29
45.0	37.31	36.15	34.76	33.71	32.44	31.22	29.84	28.73	27.23
90.0	36.59	35.20	33.93	32.55	31.16	29.84	28.29	27.12	26.02
135.0	38.42	37.14	35.32	34.04	32.94	31.33	29.89	28.56	27.12
180.0	39.02	37.42	35.92	34.65	33.49	32.55	31.00	29.84	28.62
225.0	36.92	35.76	34.37	33.21	32.27	31.27	29.84	28.67	27.57
270.0	41.07	39.25	37.92	36.26	34.93	33.88	32.71	31.05	29.84
315.0	39.85	38.03	36.70	35.43	34.04	32.82	31.44	29.89	28.62
360.0	36.53	35.15	34.21	33.05	31.39	30.11	29.01	27.40	26.29

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.30	24.13	23.25	22.47	21.53	20.76	20.04	19.37	18.54
45.0	26.13	25.19	24.02	23.19	22.47	21.59	20.92	20.26	19.48
90.0	25.08	23.91	23.03	22.25	21.48	20.54	19.82	19.15	18.27
135.0	25.91	25.08	24.13	23.03	22.25	21.53	20.76	19.82	19.10
180.0	27.18	25.91	24.91	24.02	22.92	22.09	21.37	20.48	19.82
225.0	26.13	25.08	24.19	23.14	22.31	21.59	20.76	20.04	19.37
270.0	28.34	27.01	25.96	24.74	23.80	22.92	22.20	21.26	20.48
315.0	27.34	25.96	25.02	24.08	23.19	22.25	21.48	20.70	19.98
360.0	25.30	24.13	23.25	22.47	21.53	20.76	20.04	19.37	18.54

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.88	17.33	16.88	16.27	15.89	15.33	14.89	14.50	14.00
45.0	18.88	18.32	17.77	17.27	16.88	16.44	15.83	15.33	14.89
90.0	17.71	16.99	16.44	16.00	15.50	14.95	14.50	14.12	13.67
135.0	18.27	17.66	17.10	16.38	15.89	15.44	15.00	14.39	13.95
180.0	18.93	18.32	17.71	17.16	16.44	16.00	15.50	15.00	14.45
225.0	18.71	17.99	17.38	16.83	16.33	15.72	15.22	14.67	14.28
270.0	19.76	19.10	18.21	17.60	17.05	16.38	15.83	15.22	14.78
315.0	19.10	18.43	17.77	17.05	16.50	16.00	15.33	14.83	14.34
360.0	17.88	17.33	16.88	16.27	15.89	15.33	14.89	14.50	14.00

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.62	13.12	12.79	12.29	11.62	11.35	11.13	10.85	10.90
45.0	14.28	13.84	13.17	12.79	12.12	11.51	11.24	11.02	10.74
90.0	13.23	12.84	12.45	12.18	11.62	11.29	11.07	10.85	10.85
135.0	13.62	13.06	12.68	12.29	11.96	11.51	11.24	11.02	10.68
180.0	14.00	13.51	13.12	12.68	12.29	11.96	11.68	11.24	11.07
225.0	13.89	13.51	13.12	12.68	12.29	11.85	11.40	11.13	11.07
270.0	14.34	13.84	13.40	13.01	12.57	12.12	11.57	11.35	11.07
315.0	13.78	13.28	13.01	12.51	12.23	11.62	11.35	11.13	11.07
360.0	13.62	13.12	12.79	12.29	11.62	11.35	11.13	10.85	10.90

Intensity data(cd)

C/γ(°)	90.0
0.0	10.96
45.0	10.85
90.0	10.85
135.0	10.79
180.0	10.79
225.0	10.79
270.0	10.90
315.0	10.74
360.0	10.96