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NATA

Client:
LumCAT: 1-1374-L
Luminaire: 92.70.427.00
Report No: 2023718-B015
Ballast type: AC

Test No: 2023718-C015	Voltage(V): 35.520
LampCAT: CITIZEN CLU028	Current(A): 0.282
Lamp flux(lm): 1223.2	Power (W): 10.016
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1078.35, Efficiency(%): 88.16% , Luminous Efficacy(lm/W): 107.66
Central intensity(cd): 2638.927, Maximum intensity(cd): 2638.927
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=34.0
[C90/270]Total=34.0
Field angle(10%Imax): [C0/180]Total=61.2
[C90/270]Total=61.2
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
Maximum s/h(1/4): C0_180=0.57 C90_270=0.57
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.16%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.670%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2638.928	0.000	0	0.00%	0.00%
1.0	2637.267	2.525	2.525	0.21%	0.23%
2.0	2628.687	7.558	10.083	0.62%	0.94%
3.0	2609.244	12.527	22.61	1.02%	2.10%
4.0	2578.177	17.364	39.974	1.42%	3.71%
5.0	2533.410	21.990	61.964	1.80%	5.75%
6.0	2487.259	26.385	88.349	2.16%	8.19%
7.0	2426.231	30.498	118.847	2.49%	11.02%
8.0	2358.492	34.243	153.09	2.80%	14.20%
9.0	2281.482	37.604	190.695	3.07%	17.68%
10.0	2191.670	40.480	231.175	3.31%	21.44%
11.0	2090.581	42.788	273.963	3.50%	25.41%
12.0	1980.012	44.497	318.461	3.64%	29.53%
13.0	1862.317	45.599	364.06	3.73%	33.76%
14.0	1739.847	46.107	410.167	3.77%	38.04%
15.0	1608.866	45.973	456.14	3.76%	42.30%
16.0	1469.583	45.108	501.248	3.69%	46.48%
17.0	1321.152	43.459	544.707	3.55%	50.51%
18.0	1189.293	41.392	586.099	3.38%	54.35%
19.0	1106.643	39.945	626.043	3.27%	58.06%
20.0	1007.553	38.696	664.739	3.16%	61.64%
21.0	917.624	36.967	701.706	3.02%	65.07%
22.0	817.725	34.873	736.579	2.85%	68.31%
23.0	730.882	32.494	769.073	2.66%	71.32%
24.0	647.720	30.141	799.214	2.46%	74.11%
25.0	575.850	27.821	827.035	2.27%	76.69%
26.0	505.704	25.530	852.565	2.09%	79.06%
27.0	442.331	23.194	875.759	1.90%	81.21%
28.0	380.950	20.844	896.603	1.70%	83.15%
29.0	326.662	18.513	915.116	1.51%	84.86%
30.0	283.445	16.473	931.589	1.35%	86.39%
31.0	247.936	14.788	946.376	1.21%	87.76%
32.0	203.777	12.941	959.317	1.06%	88.96%
33.0	160.948	10.745	970.062	0.88%	89.96%
34.0	127.514	8.730	978.792	0.71%	90.77%
35.0	105.753	7.244	986.037	0.59%	91.44%
36.0	88.676	6.191	992.227	0.51%	92.01%
37.0	77.121	5.407	997.635	0.44%	92.51%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	67.628	4.832	1002.466	0.39%	92.96%
39.0	60.107	4.360	1006.826	0.36%	93.37%
40.0	53.527	3.963	1010.789	0.32%	93.73%
41.0	48.206	3.623	1014.412	0.30%	94.07%
42.0	43.702	3.339	1017.751	0.27%	94.38%
43.0	39.820	3.094	1020.845	0.25%	94.67%
44.0	36.443	2.878	1023.723	0.24%	94.93%
45.0	33.323	2.681	1026.405	0.22%	95.18%
46.0	30.763	2.506	1028.911	0.20%	95.42%
47.0	28.625	2.362	1031.273	0.19%	95.63%
48.0	26.445	2.226	1033.499	0.18%	95.84%
49.0	24.660	2.099	1035.598	0.17%	96.04%
50.0	23.013	1.988	1037.585	0.16%	96.22%
51.0	21.657	1.890	1039.475	0.15%	96.39%
52.0	20.301	1.800	1041.276	0.15%	96.56%
53.0	19.097	1.714	1042.99	0.14%	96.72%
54.0	18.121	1.640	1044.63	0.13%	96.87%
55.0	17.132	1.574	1046.204	0.13%	97.02%
56.0	16.295	1.510	1047.714	0.12%	97.16%
57.0	15.464	1.452	1049.166	0.12%	97.29%
58.0	14.786	1.399	1050.565	0.11%	97.42%
59.0	14.122	1.351	1051.917	0.11%	97.55%
60.0	13.520	1.306	1053.222	0.11%	97.67%
61.0	12.967	1.264	1054.486	0.10%	97.79%
62.0	12.413	1.223	1055.709	0.10%	97.90%
63.0	11.949	1.185	1056.894	0.10%	98.01%
64.0	11.465	1.149	1058.043	0.09%	98.12%
65.0	11.091	1.116	1059.16	0.09%	98.22%
66.0	10.676	1.086	1060.246	0.09%	98.32%
67.0	10.337	1.057	1061.302	0.09%	98.42%
68.0	9.977	1.029	1062.331	0.08%	98.51%
69.0	9.632	1.000	1063.332	0.08%	98.61%
70.0	9.313	0.973	1064.305	0.08%	98.70%
71.0	9.009	0.947	1065.252	0.08%	98.79%
72.0	8.718	0.922	1066.173	0.08%	98.87%
73.0	8.414	0.896	1067.069	0.07%	98.95%
74.0	8.116	0.869	1067.938	0.07%	99.03%
75.0	7.826	0.842	1068.781	0.07%	99.11%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.514	0.814	1069.595	0.07%	99.19%
77.0	7.258	0.788	1070.382	0.06%	99.26%
78.0	6.926	0.759	1071.142	0.06%	99.33%
79.0	6.663	0.730	1071.872	0.06%	99.40%
80.0	6.373	0.703	1072.575	0.06%	99.46%
81.0	6.117	0.675	1073.25	0.06%	99.53%
82.0	5.874	0.650	1073.9	0.05%	99.59%
83.0	5.618	0.625	1074.525	0.05%	99.65%
84.0	5.445	0.603	1075.128	0.05%	99.70%
85.0	5.252	0.584	1075.712	0.05%	99.76%
86.0	5.058	0.564	1076.275	0.05%	99.81%
87.0	4.878	0.544	1076.819	0.04%	99.86%
88.0	4.733	0.526	1077.345	0.04%	99.91%
89.0	4.567	0.510	1077.855	0.04%	99.95%
90.0	4.470	0.495	1078.351	0.04%	100.00%

Zonal flux distribution table

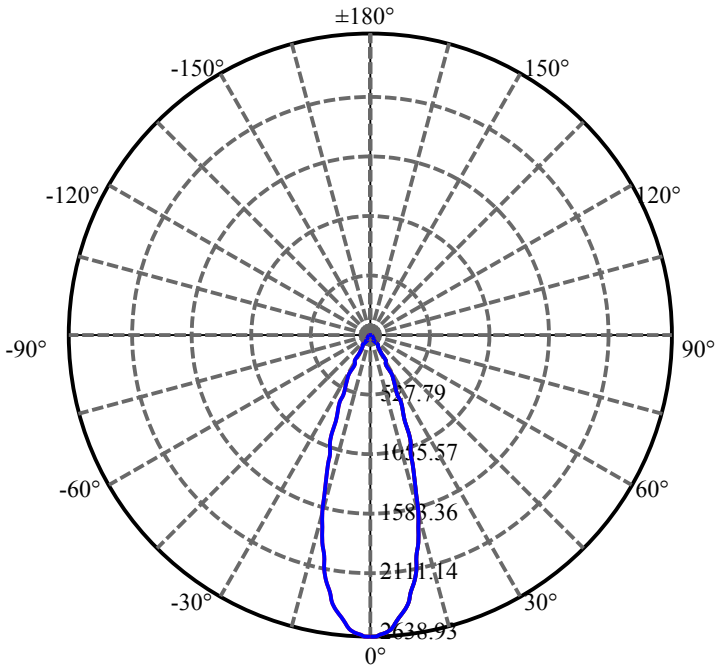
ZONAL LUMEN SUMMARY

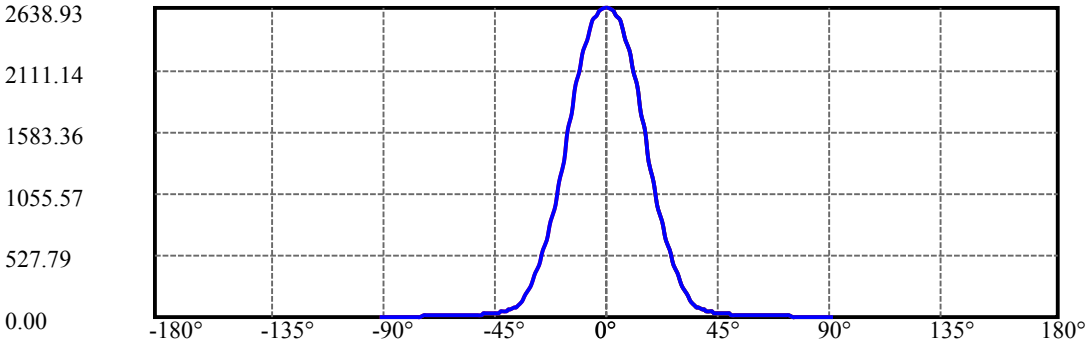
Zone	Lumens	%Lamp	%Fixt
0-30	931.59	76.16%	86.39%
0-40	1010.79	82.63%	93.73%
0-60	1053.22	86.10%	97.67%
0-90	1077.86	88.12%	99.95%
0-120	1077.86	88.12%	99.95%
0-180	1078.35	88.16%	100.00%
60-90	24.63	2.01%	2.28%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.44	862.68	70.53%	80.00%

ZONAL LUMEN SUMMARY

0-10	231.18
10-20	433.56
20-30	266.85
30-40	79.20
40-50	26.80
50-60	15.64
60-70	11.08
70-80	8.27
80-90	5.28
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):

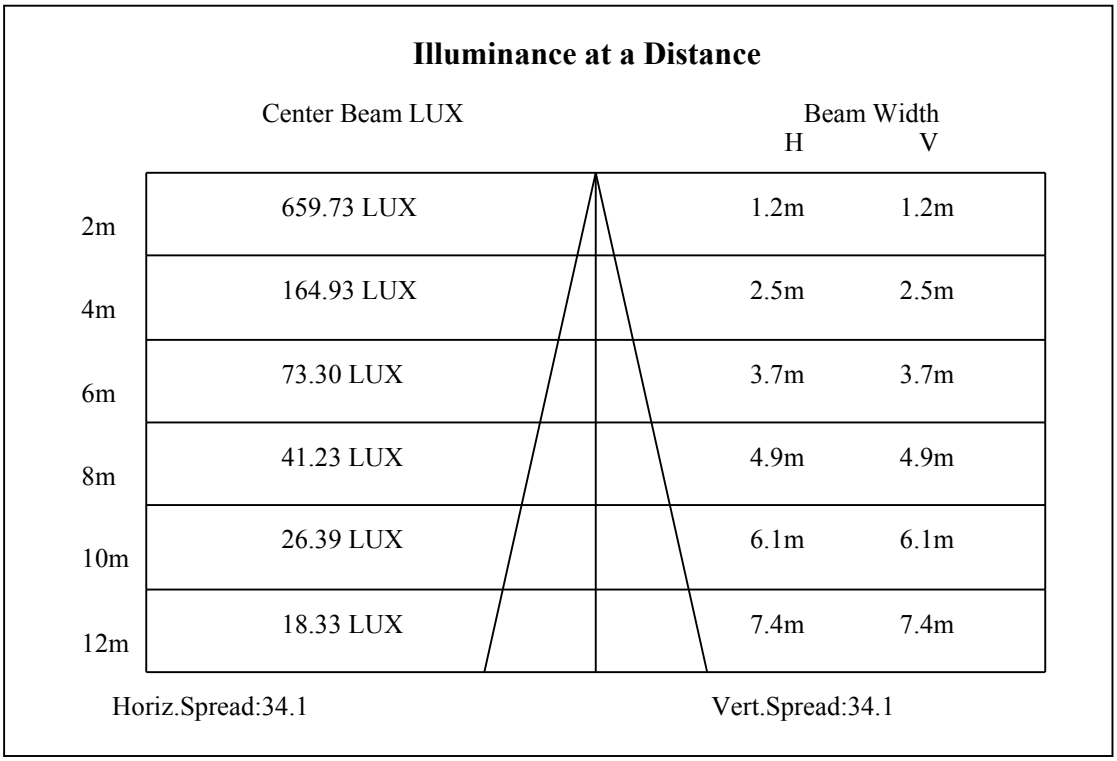
C0/C180:

C90/C270:

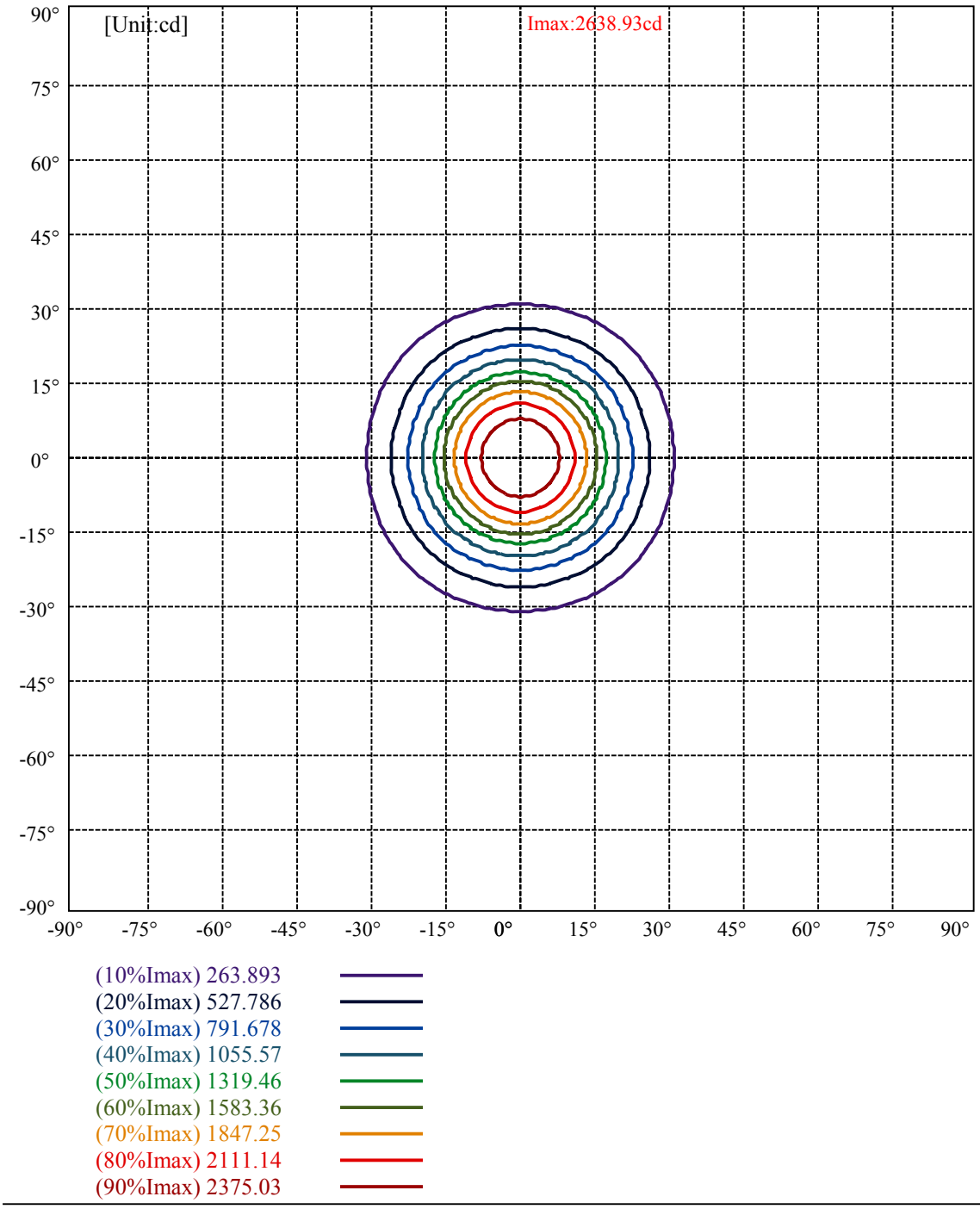
Field angle(10%Imax):C0/180Left:30.6 Right:30.6
:C90/270Left:30.6 Right:30.6

Beam Angle(50%Imax):C0/180Left:17.0 Right:17.0
:C90/270Left:17.0 Right:17.0

Lux distance Curve



ISO-Intensity(V-H)

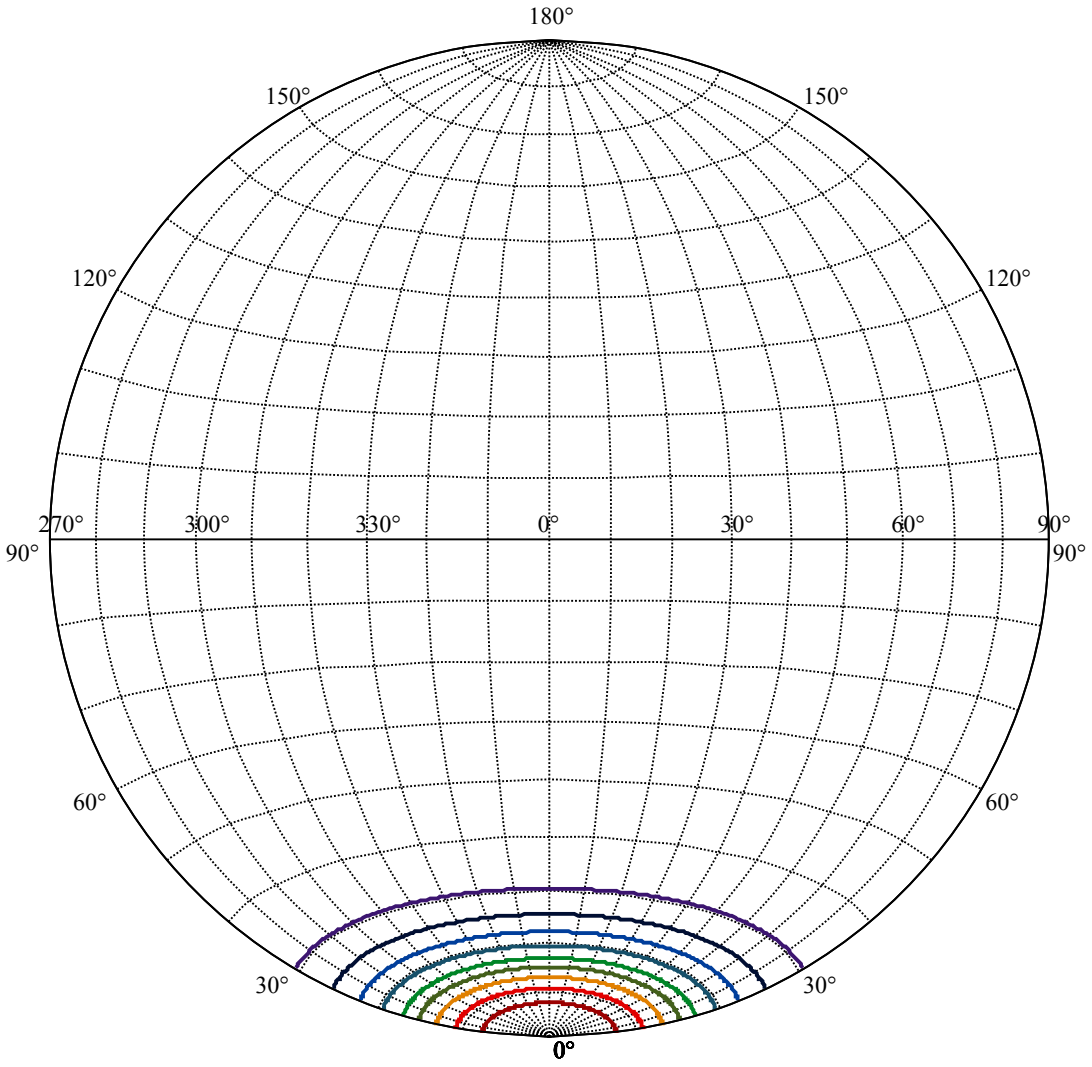


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:2638.93

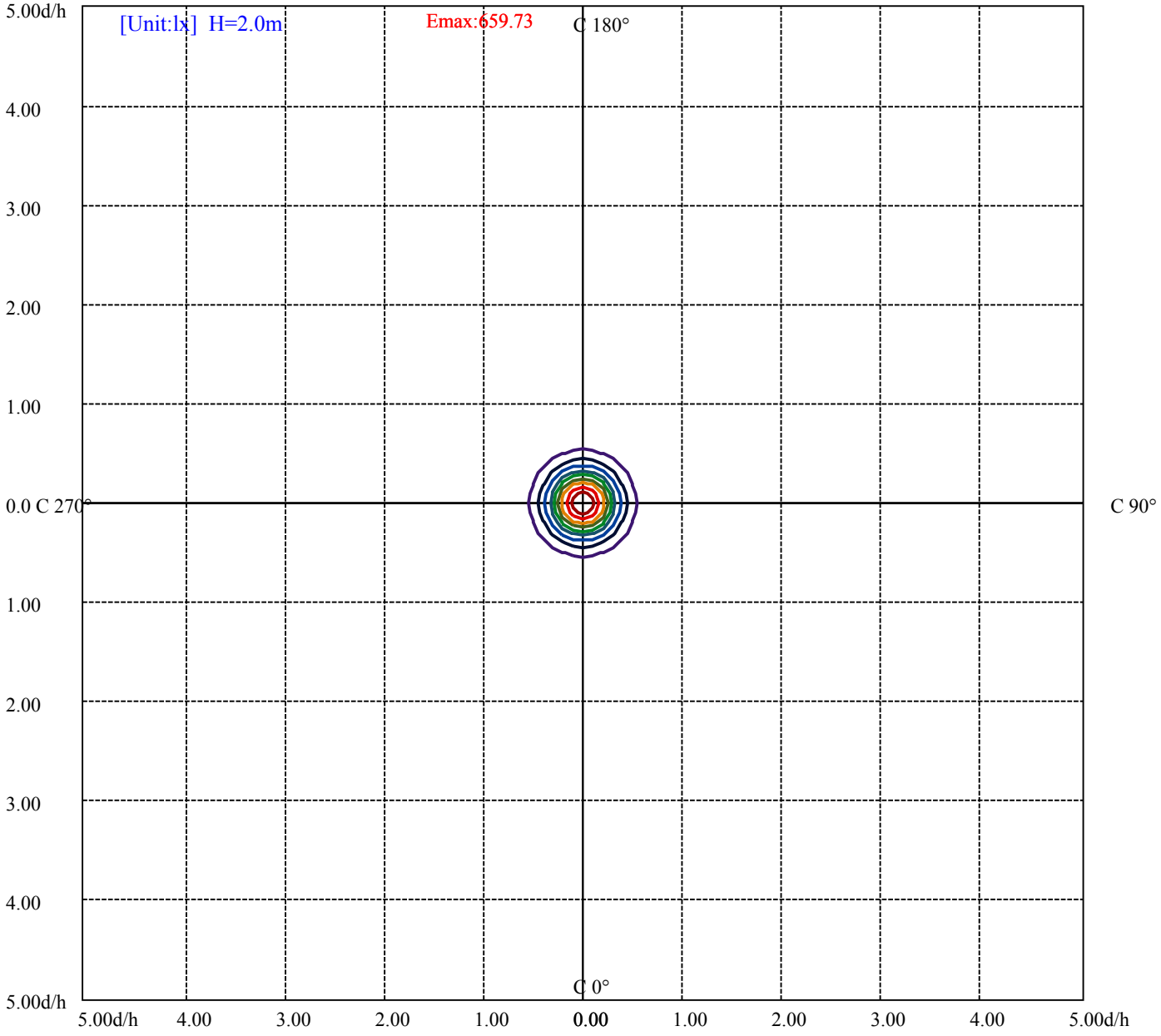
(10%Imax) 263.893
(20%Imax) 527.786
(30%Imax) 791.678
(40%Imax) 1055.57
(50%Imax) 1319.46
(60%Imax) 1583.36
(70%Imax) 1847.25
(80%Imax) 2111.14
(90%Imax) 2375.03

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.44

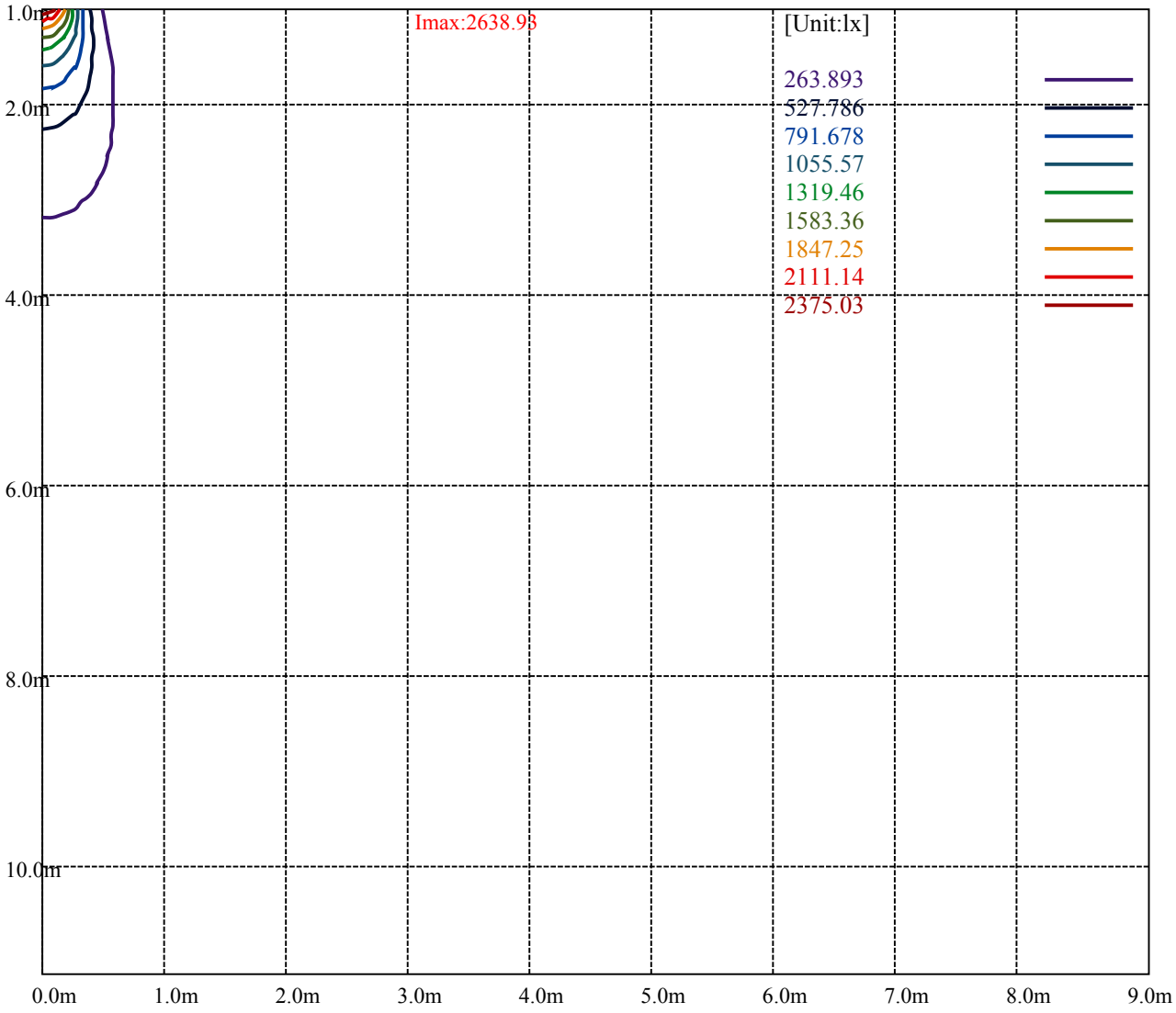
ISO illuminance diagram



(10%Emax) 65.97325
(20%Emax) 131.9462
(30%Emax) 197.9195
(40%Emax) 263.8925
(50%Emax) 329.865
(60%Emax) 395.84
(70%Emax) 461.8125
(80%Emax) 527.785
(90%Emax) 593.7575

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

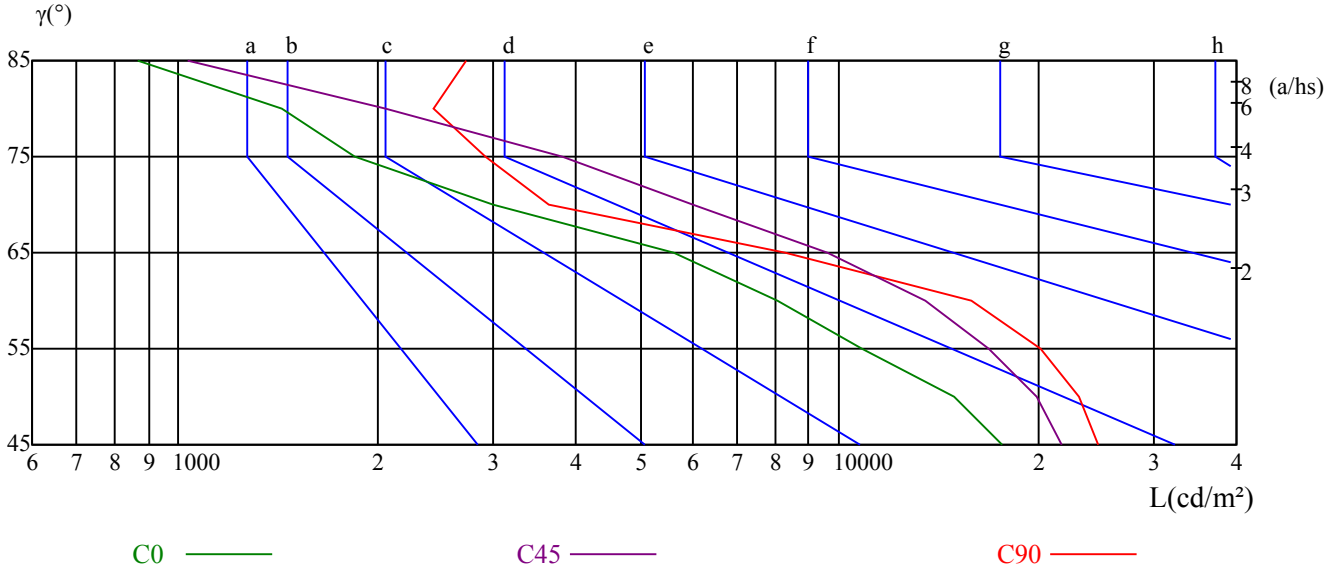
γ	45	50	55	60	65	70	75	80	85
C0	17707	14902	10843	8081	5637	2993	1851	1437	868
C45	21736	19918	16903	13532	9602	6004	3809	2064	1031
C90	24698	23118	20255	15854	8293	3645	2908	2436	2724

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

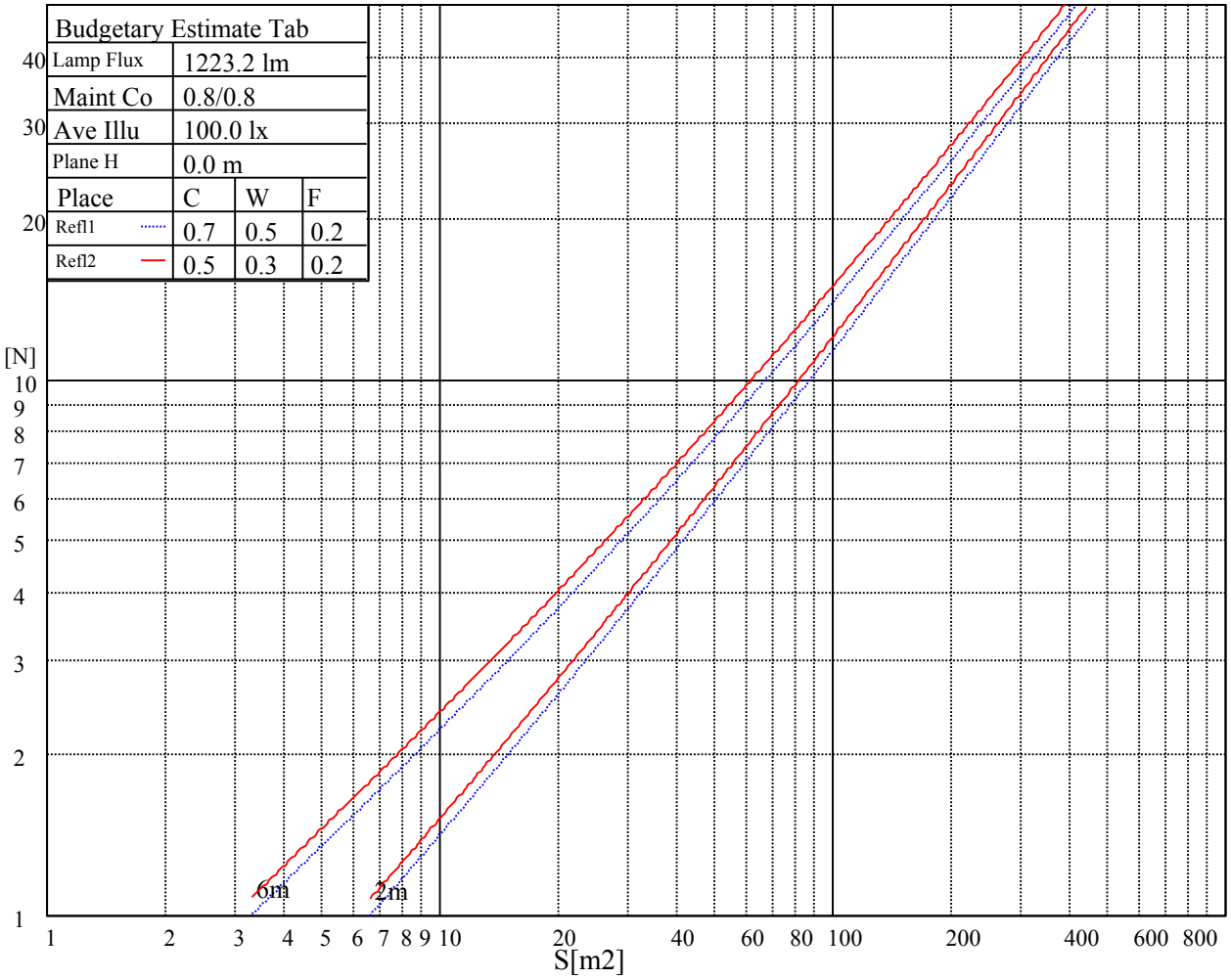
Luminance Limitting Curve



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

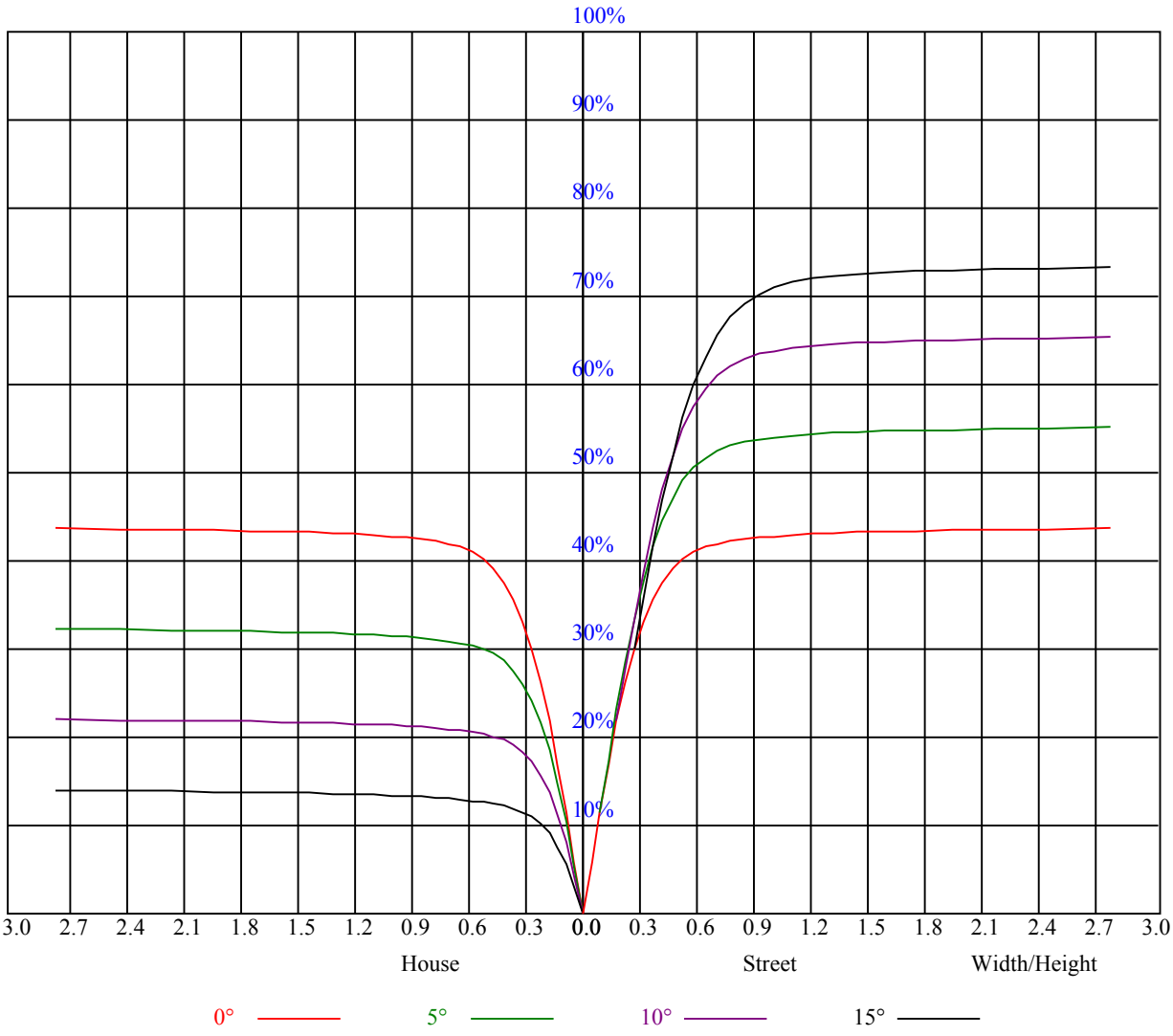


Equipment: GMS1980 Date: 2023/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.05	1.05	1.05	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.88
1	0.98	0.96	0.94	0.96	0.94	0.93	0.93	0.91	0.90	0.89	0.88	0.87	0.86	0.86	0.85	0.83
2	0.92	0.89	0.86	0.91	0.88	0.85	0.88	0.86	0.84	0.85	0.83	0.82	0.83	0.81	0.80	0.79
3	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
4	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.71
5	0.79	0.74	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
6	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
7	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.59
9	0.66	0.62	0.59	0.66	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.57
10	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55

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	2638.10	2633.67	2618.72	2586.62	2544.55	2489.75	2435.50	2375.17	2300.44
45.0	2639.20	2641.42	2635.88	2614.30	2578.32	2534.59	2492.52	2424.99	2364.65
90.0	2638.10	2624.81	2596.03	2560.05	2519.09	2460.41	2403.40	2335.87	2262.25
135.0	2640.31	2637.54	2629.24	2602.12	2566.14	2522.96	2477.57	2405.61	2338.08
180.0	2638.10	2642.53	2641.97	2633.12	2618.17	2575.55	2541.23	2496.39	2443.25
225.0	2639.20	2640.86	2636.99	2619.28	2592.15	2547.32	2498.61	2443.25	2367.97
270.0	2638.10	2639.76	2638.10	2640.86	2622.04	2587.73	2549.53	2500.27	2431.07
315.0	2640.31	2637.54	2632.56	2617.62	2584.96	2548.98	2499.71	2428.31	2360.22
360.0	2638.10	2633.67	2618.72	2586.62	2544.55	2489.75	2435.50	2375.17	2300.44

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2200.80	2100.61	2003.74	1890.27	1743.03	1624.02	1498.37	1376.59	1098.55
45.0	2293.24	2194.16	2101.72	1978.84	1870.90	1754.10	1632.32	1477.33	1356.11
90.0	2178.66	2061.87	1955.59	1843.22	1695.98	1579.18	1426.41	1224.37	1089.91
135.0	2263.35	2177.56	2058.55	1956.69	1845.99	1693.21	1573.09	1451.87	1302.97
180.0	2367.42	2294.35	2213.54	2099.51	1996.55	1859.83	1741.37	1616.82	1501.69
225.0	2296.01	2208.00	2092.86	1992.12	1883.07	1767.94	1625.68	1505.01	1381.57
270.0	2365.20	2292.14	2214.09	2096.74	1992.67	1885.29	1766.28	1615.16	1499.47
315.0	2287.16	2204.68	2084.56	1982.71	1870.34	1755.21	1607.41	1489.51	1338.95
360.0	2200.80	2100.61	2003.74	1890.27	1743.03	1624.02	1498.37	1376.59	1098.55

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1098.55	1000.85	905.86	821.34	715.22	639.94	568.76	491.15	430.60
45.0	1239.31	1136.35	1015.68	922.14	834.12	752.20	655.88	584.48	504.77
90.0	1064.95	971.95	881.62	795.04	714.39	621.68	552.48	491.54	417.42
135.0	1190.60	1090.96	975.28	887.82	800.36	720.09	628.21	561.78	497.02
180.0	1346.14	1230.46	1131.37	1039.49	915.49	822.50	747.22	664.19	578.94
225.0	1101.37	1101.37	1027.92	935.09	824.10	743.68	648.97	578.61	515.62
270.0	1382.12	1229.90	1127.50	1035.06	920.48	827.48	733.38	655.33	582.82
315.0	1091.30	1091.30	995.20	905.03	817.63	719.49	646.86	579.72	518.44
360.0	1098.55	1000.85	905.86	821.34	715.22	639.94	568.76	491.15	430.60

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	374.63	326.20	270.13	229.00	191.30	157.65	122.44	100.58	84.91
45.0	442.77	385.76	323.76	289.44	289.44	187.26	156.15	128.92	108.22
90.0	363.62	314.41	259.72	220.14	175.19	145.69	120.28	100.96	84.03
135.0	436.13	367.49	317.67	284.46	284.46	183.88	152.33	119.40	99.97
180.0	514.18	436.13	382.99	332.62	285.02	285.02	186.76	148.24	121.83
225.0	441.22	383.60	331.01	282.58	228.56	190.25	157.48	129.69	103.51
270.0	522.48	446.65	391.29	340.37	292.21	281.14	226.84	162.46	135.06
315.0	443.60	387.36	336.72	288.95	237.30	199.33	165.29	129.86	108.49
360.0	374.63	326.20	270.13	229.00	191.30	157.65	122.44	100.58	84.91

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	71.57	63.55	54.58	49.26	44.84	41.02	36.81	33.93	31.50
45.0	89.23	78.93	69.86	62.05	54.80	49.82	45.56	40.96	37.86
90.0	75.06	66.87	59.67	54.08	48.21	44.12	40.57	36.64	33.82
135.0	82.59	72.96	64.87	57.73	51.09	46.44	42.51	38.97	35.87
180.0	100.85	85.08	72.79	64.71	57.84	52.20	46.16	42.18	38.75
225.0	88.73	77.11	66.31	58.95	52.81	46.39	42.07	38.25	34.32
270.0	108.71	93.60	82.70	71.52	63.71	55.80	50.54	46.05	42.07
315.0	92.66	78.88	70.24	62.55	54.91	49.87	45.39	41.57	37.36
360.0	71.57	63.55	54.58	49.26	44.84	41.02	36.81	33.93	31.50

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	29.23	26.74	25.02	23.58	22.20	20.59	19.54	18.32	17.44
45.0	35.09	32.05	29.89	27.95	25.74	24.19	22.92	21.59	20.15
90.0	30.83	28.62	26.79	24.74	23.25	21.92	20.65	19.32	18.27
135.0	32.60	30.17	28.06	25.74	24.13	22.31	21.03	19.87	18.65
180.0	34.93	32.38	30.06	27.51	25.79	24.19	22.47	21.20	20.04
225.0	31.61	29.23	27.12	24.85	23.25	21.81	20.54	19.04	17.99
270.0	37.81	34.93	32.33	30.06	27.51	25.63	24.02	22.25	20.92
315.0	34.49	31.99	29.72	27.12	25.41	23.47	22.09	20.81	19.32
360.0	29.23	26.74	25.02	23.58	22.20	20.59	19.54	18.32	17.44

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.66	15.72	15.00	14.39	13.78	13.12	12.68	12.23	11.79
45.0	19.10	18.27	17.38	16.44	15.67	15.06	14.23	13.62	12.95
90.0	17.38	16.55	15.61	14.89	14.28	13.51	12.95	12.45	11.90
135.0	17.71	16.88	16.11	15.28	14.61	14.00	13.51	12.84	12.34
180.0	19.04	17.82	16.99	16.27	15.55	14.78	14.17	13.67	13.01
225.0	17.05	16.05	15.28	14.45	13.84	13.34	12.68	12.23	11.79
270.0	19.71	18.43	17.44	16.44	15.67	14.95	14.28	13.67	13.01
315.0	18.32	17.33	16.55	15.55	14.89	14.23	13.67	13.01	12.51
360.0	16.66	15.72	15.00	14.39	13.78	13.12	12.68	12.23	11.79

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.29	10.96	10.57	10.19	9.85	9.52	9.19	8.91	8.58
45.0	12.45	11.96	11.57	11.07	10.68	10.35	10.02	9.58	9.30
90.0	11.46	10.96	10.63	10.30	9.91	9.58	9.19	8.91	8.64
135.0	11.90	11.40	11.02	10.57	10.30	9.96	9.63	9.30	8.97
180.0	12.57	12.01	11.62	11.24	10.90	10.46	10.19	9.85	9.58
225.0	11.35	10.90	10.57	10.24	9.96	9.58	9.30	9.02	8.69
270.0	12.51	12.01	11.62	11.07	10.74	10.35	9.96	9.63	9.30
315.0	12.07	11.51	11.13	10.74	10.35	10.02	9.58	9.30	9.02
360.0	11.29	10.96	10.57	10.19	9.85	9.52	9.19	8.91	8.58

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.30	8.03	7.75	7.42	7.09	6.86	6.59	6.31	6.03
45.0	8.97	8.52	8.25	7.97	7.58	7.36	6.97	6.75	6.48
90.0	8.36	7.97	7.75	7.47	7.09	6.86	6.48	6.25	5.98
135.0	8.69	8.41	8.08	7.80	7.53	7.25	6.92	6.70	6.31
180.0	9.19	8.97	8.64	8.30	8.03	7.75	7.36	7.03	6.75
225.0	8.47	8.19	7.92	7.64	7.36	7.03	6.81	6.53	6.25
270.0	9.02	8.80	8.41	8.14	7.86	7.64	7.25	6.97	6.70
315.0	8.75	8.41	8.14	7.86	7.58	7.31	7.03	6.75	6.48
360.0	8.30	8.03	7.75	7.42	7.09	6.86	6.59	6.31	6.03

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.87	5.59	5.37	5.26	5.04	4.87	4.76	4.59	4.48
45.0	6.20	5.92	5.65	5.48	5.26	5.09	4.87	4.76	4.54
90.0	5.76	5.59	5.37	5.26	5.04	4.82	4.71	4.54	4.43
135.0	6.09	5.87	5.59	5.42	5.20	5.04	4.87	4.71	4.54
180.0	6.42	6.20	5.87	5.70	5.48	5.31	5.15	4.93	4.76
225.0	5.98	5.76	5.59	5.37	5.26	5.09	4.87	4.76	4.59
270.0	6.48	6.14	5.87	5.65	5.48	5.26	4.98	4.87	4.71
315.0	6.14	5.92	5.65	5.42	5.26	4.98	4.82	4.71	4.48
360.0	5.87	5.59	5.37	5.26	5.04	4.87	4.76	4.59	4.48

Intensity data(cd)

C/γ(°)	90.0
0.0	4.48
45.0	4.48
90.0	4.37
135.0	4.43
180.0	4.65
225.0	4.43
270.0	4.48
315.0	4.43
360.0	4.48