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NT

Client:
LumCAT: 2-2644-L
Luminaire: 92.70.412.000
Report No: 20231101-B023
Ballast type: AC

Test No: 20231101-C023	Voltage(V): 35.220
LampCAT: Fortimo_SLM_C_1205	Current(A): 0.451
Lamp flux(lm): 2563.2	Power (W): 15.884
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2331.03, Efficiency(%): 90.94% , Luminous Efficacy(lm/W): 146.75
Central intensity(cd): 7984.341, Maximum intensity(cd): 7984.341
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.4
[C90/270]Total=25.4
Field angle(10%Imax): [C0/180]Total=56.4
[C90/270]Total=56.4
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
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(%): 90.94%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.988%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7984.342	0.000	0	0.00%	0.00%
1.0	7937.084	7.618	7.618	0.30%	0.33%
2.0	7815.236	22.609	30.227	0.88%	1.30%
3.0	7624.612	36.927	67.154	1.44%	2.88%
4.0	7374.483	50.207	117.361	1.96%	5.03%
5.0	7061.943	62.105	179.466	2.42%	7.70%
6.0	6731.897	72.490	251.956	2.83%	10.81%
7.0	6354.317	81.226	333.182	3.17%	14.29%
8.0	5983.378	88.299	421.481	3.44%	18.08%
9.0	5550.029	93.472	514.953	3.65%	22.09%
10.0	5127.335	96.626	611.579	3.77%	26.24%
11.0	4704.987	98.245	709.824	3.83%	30.45%
12.0	4283.746	98.260	808.084	3.83%	34.67%
13.0	3889.282	96.993	905.077	3.78%	38.83%
14.0	3536.403	95.048	1000.125	3.71%	42.90%
15.0	3208.295	92.594	1092.719	3.61%	46.88%
16.0	2915.820	89.735	1182.455	3.50%	50.73%
17.0	2647.009	86.628	1269.083	3.38%	54.44%
18.0	2399.786	83.211	1352.294	3.25%	58.01%
19.0	2188.958	79.835	1432.128	3.11%	61.44%
20.0	1974.325	76.200	1508.328	2.97%	64.71%
21.0	1791.381	72.309	1580.637	2.82%	67.81%
22.0	1622.137	68.596	1649.233	2.68%	70.75%
23.0	1411.946	63.663	1712.896	2.48%	73.48%
24.0	1261.688	58.455	1771.352	2.28%	75.99%
25.0	1160.883	55.084	1826.436	2.15%	78.35%
26.0	1063.917	52.517	1878.952	2.05%	80.61%
27.0	939.399	49.012	1927.964	1.91%	82.71%
28.0	822.368	44.604	1972.568	1.74%	84.62%
29.0	709.682	40.083	2012.651	1.56%	86.34%
30.0	606.240	35.530	2048.18	1.39%	87.87%
31.0	517.162	31.263	2079.443	1.22%	89.21%
32.0	434.553	27.266	2106.709	1.06%	90.38%
33.0	357.550	23.336	2130.044	0.91%	91.38%
34.0	296.425	19.791	2149.835	0.77%	92.23%
35.0	252.405	17.045	2166.88	0.66%	92.96%
36.0	215.748	14.906	2181.786	0.58%	93.60%
37.0	173.430	12.693	2194.479	0.50%	94.14%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	128.531	10.079	2204.558	0.39%	94.57%
39.0	107.185	8.046	2212.604	0.31%	94.92%
40.0	88.974	6.841	2219.445	0.27%	95.21%
41.0	76.547	5.894	2225.339	0.23%	95.47%
42.0	66.148	5.184	2230.523	0.20%	95.69%
43.0	58.986	4.635	2235.159	0.18%	95.89%
44.0	52.759	4.218	2239.376	0.16%	96.07%
45.0	48.144	3.878	2243.254	0.15%	96.23%
46.0	44.068	3.606	2246.86	0.14%	96.39%
47.0	40.685	3.371	2250.231	0.13%	96.53%
48.0	37.938	3.178	2253.41	0.12%	96.67%
49.0	35.426	3.013	2256.422	0.12%	96.80%
50.0	33.434	2.871	2259.293	0.11%	96.92%
51.0	31.697	2.756	2262.049	0.11%	97.04%
52.0	30.368	2.663	2264.712	0.10%	97.15%
53.0	29.234	2.593	2267.305	0.10%	97.27%
54.0	28.286	2.535	2269.84	0.10%	97.37%
55.0	27.435	2.487	2272.327	0.10%	97.48%
56.0	26.660	2.444	2274.772	0.10%	97.59%
57.0	25.933	2.405	2277.176	0.09%	97.69%
58.0	25.214	2.365	2279.542	0.09%	97.79%
59.0	24.439	2.321	2281.863	0.09%	97.89%
60.0	23.643	2.272	2284.134	0.09%	97.99%
61.0	22.826	2.218	2286.352	0.09%	98.08%
62.0	22.065	2.163	2288.515	0.08%	98.18%
63.0	21.256	2.107	2290.622	0.08%	98.27%
64.0	20.536	2.051	2292.673	0.08%	98.35%
65.0	19.872	2.000	2294.672	0.08%	98.44%
66.0	19.215	1.950	2296.623	0.08%	98.52%
67.0	18.599	1.901	2298.524	0.07%	98.61%
68.0	17.886	1.848	2300.372	0.07%	98.68%
69.0	17.291	1.795	2302.167	0.07%	98.76%
70.0	16.682	1.745	2303.912	0.07%	98.84%
71.0	16.115	1.695	2305.607	0.07%	98.91%
72.0	15.554	1.647	2307.253	0.06%	98.98%
73.0	15.077	1.602	2308.855	0.06%	99.05%
74.0	14.648	1.563	2310.418	0.06%	99.12%
75.0	14.240	1.526	2311.944	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.887	1.493	2313.437	0.06%	99.25%
77.0	13.534	1.462	2314.899	0.06%	99.31%
78.0	13.195	1.431	2316.33	0.06%	99.37%
79.0	12.911	1.403	2317.733	0.05%	99.43%
80.0	12.545	1.372	2319.105	0.05%	99.49%
81.0	12.226	1.340	2320.445	0.05%	99.55%
82.0	11.873	1.307	2321.752	0.05%	99.60%
83.0	11.527	1.272	2323.024	0.05%	99.66%
84.0	11.258	1.241	2324.265	0.05%	99.71%
85.0	10.898	1.209	2325.474	0.05%	99.76%
86.0	10.462	1.168	2326.642	0.05%	99.81%
87.0	10.178	1.130	2327.771	0.04%	99.86%
88.0	9.971	1.104	2328.875	0.04%	99.91%
89.0	9.832	1.085	2329.96	0.04%	99.95%
90.0	9.763	1.074	2331.035	0.04%	100.00%

Zonal flux distribution table

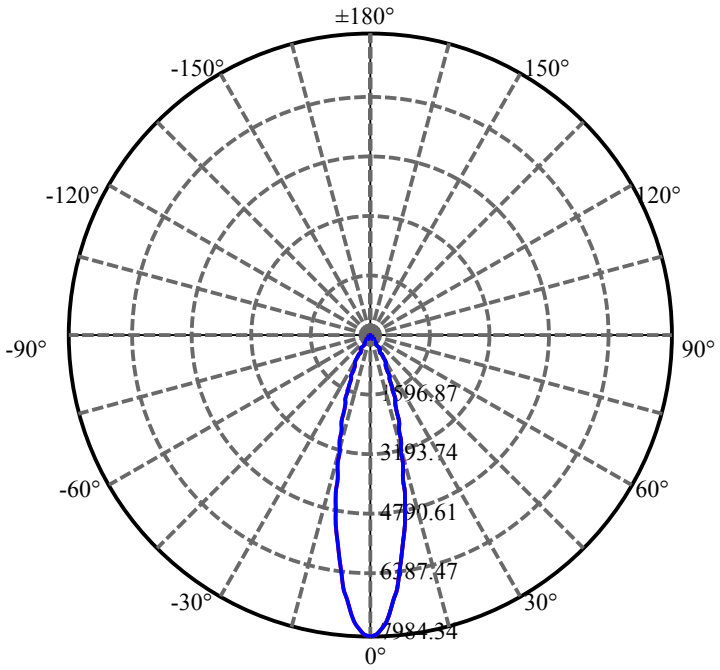
ZONAL LUMEN SUMMARY

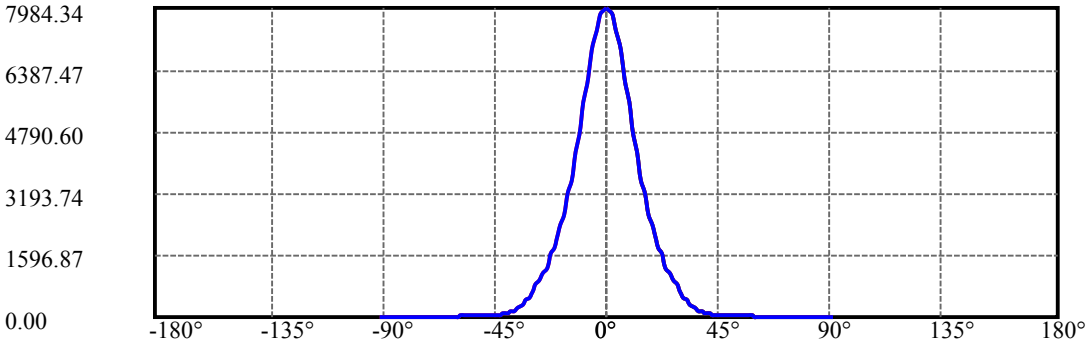
Zone	Lumens	%Lamp	%Fixt
0-30	2048.18	79.91%	87.87%
0-40	2219.44	86.59%	95.21%
0-60	2284.13	89.11%	97.99%
0-90	2329.96	90.90%	99.95%
0-120	2329.96	90.90%	99.95%
0-180	2331.03	90.94%	100.00%
60-90	45.83	1.79%	1.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.73	1864.83	72.75%	80.00%

ZONAL LUMEN SUMMARY

0-10	611.58
10-20	896.75
20-30	539.85
30-40	171.26
40-50	39.85
50-60	24.84
60-70	19.78
70-80	15.19
80-90	10.86
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):

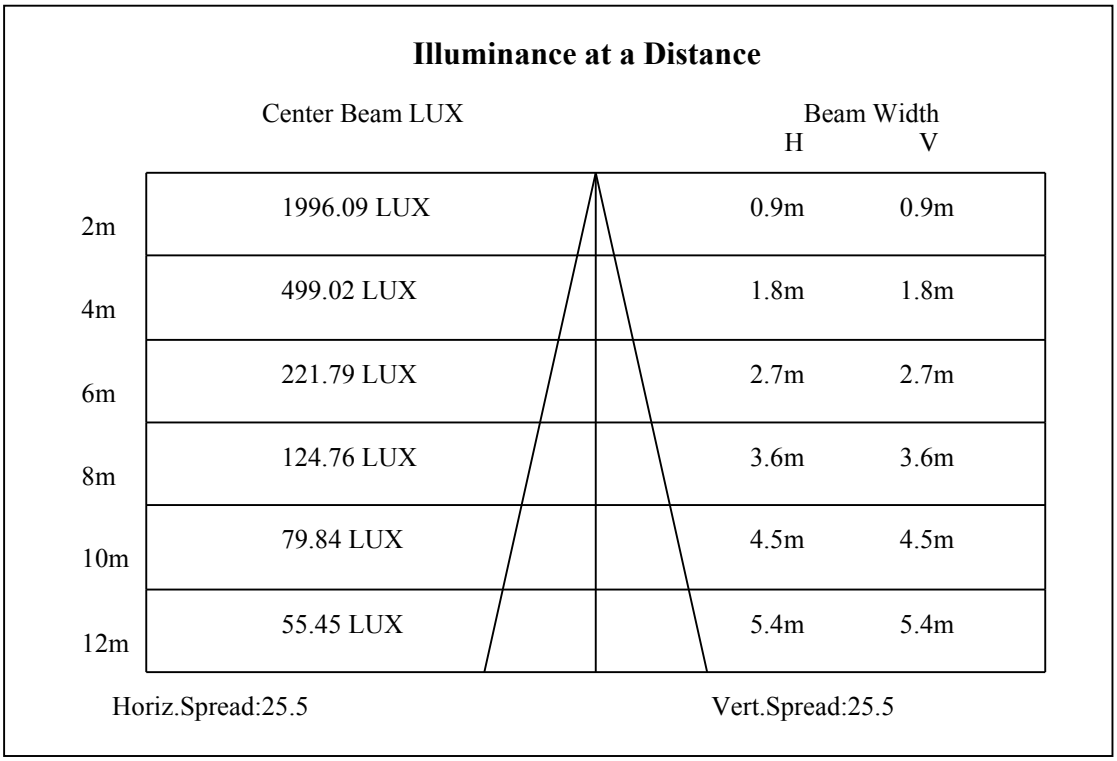
C0/C180:

C90/C270:

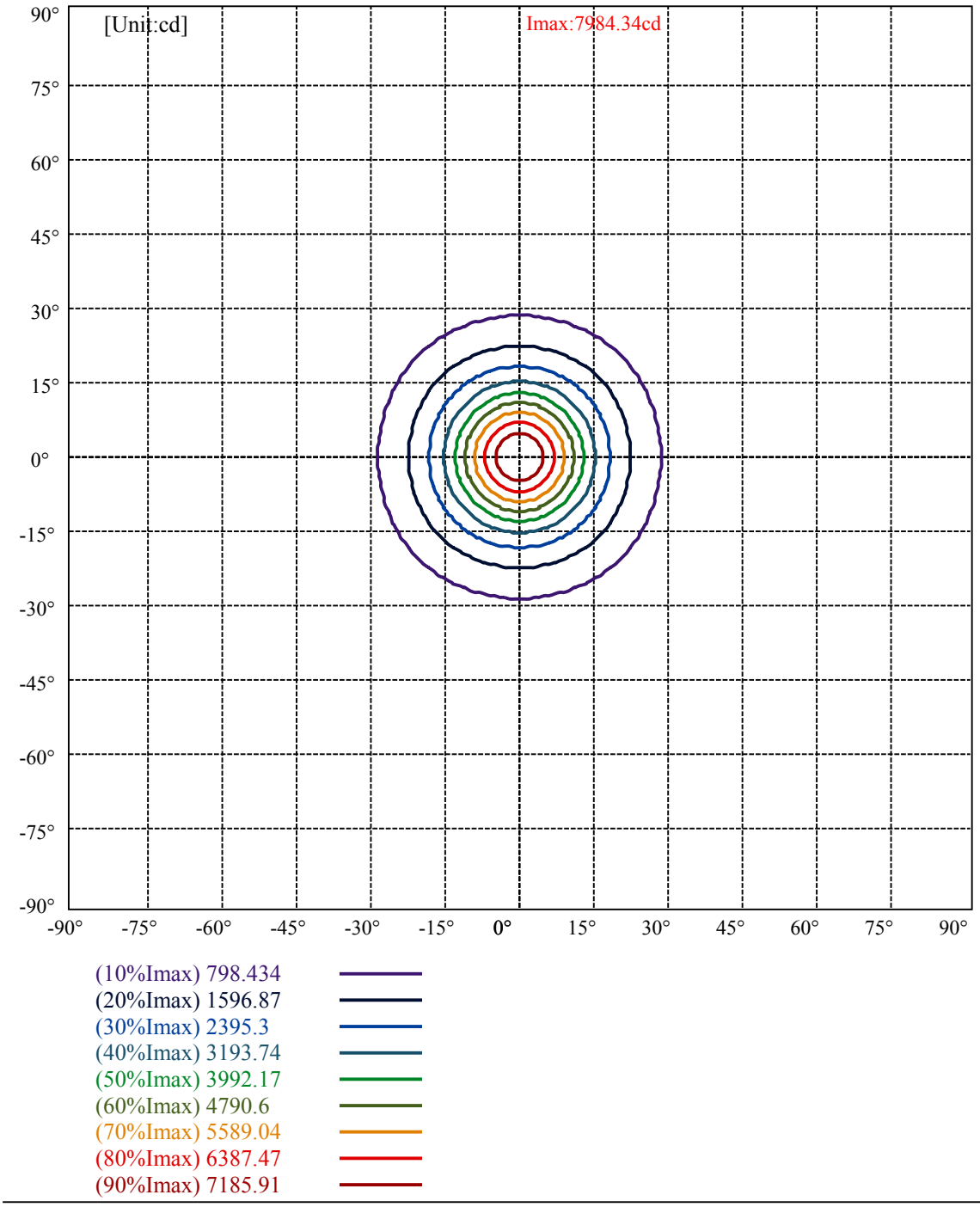
Field angle(10%Imax):C0/180Left:28.2 Right:28.2
:C90/270Left:28.2 Right:28.2

Beam Angle(50%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7

Lux distance Curve



ISO-Intensity(V-H)

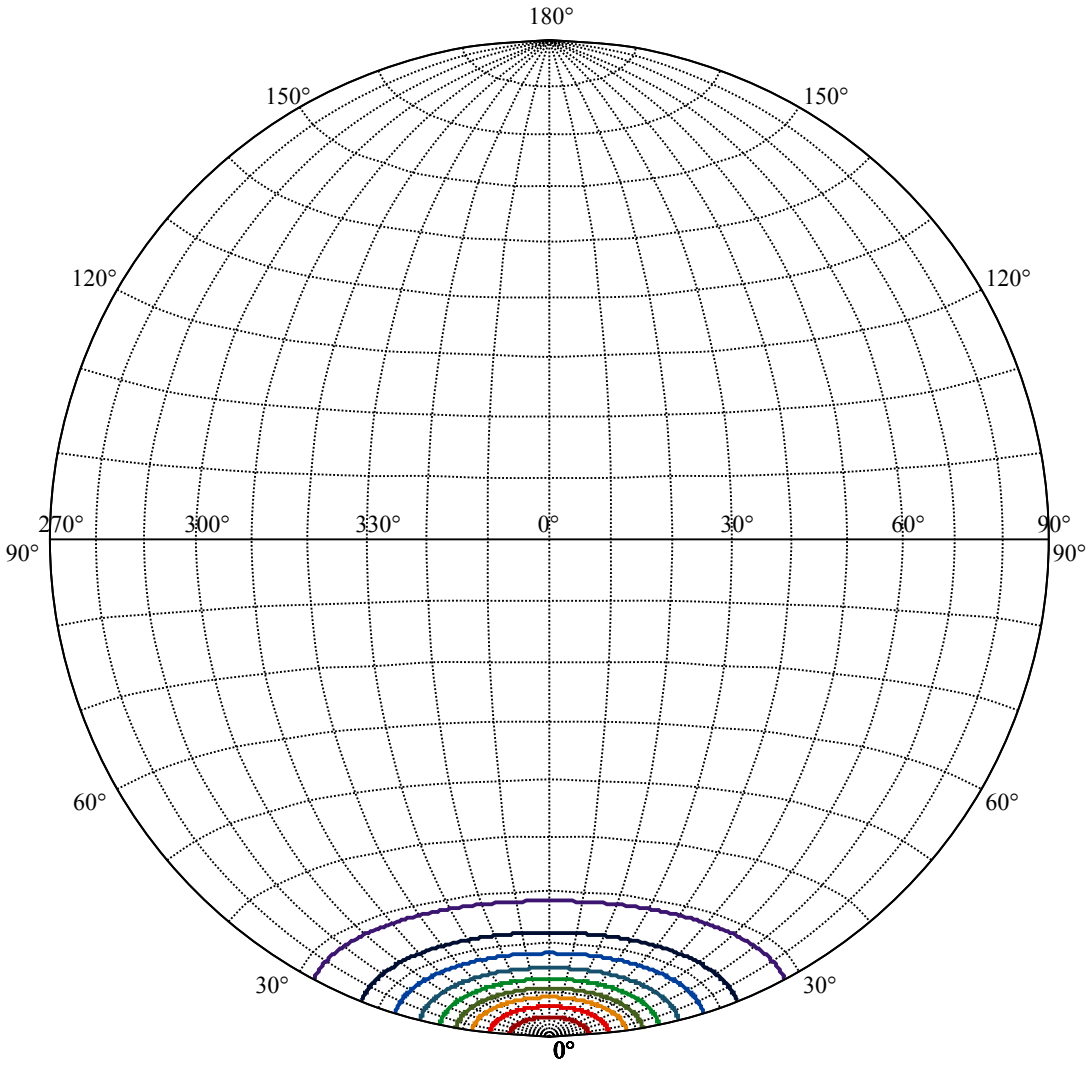


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/01
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

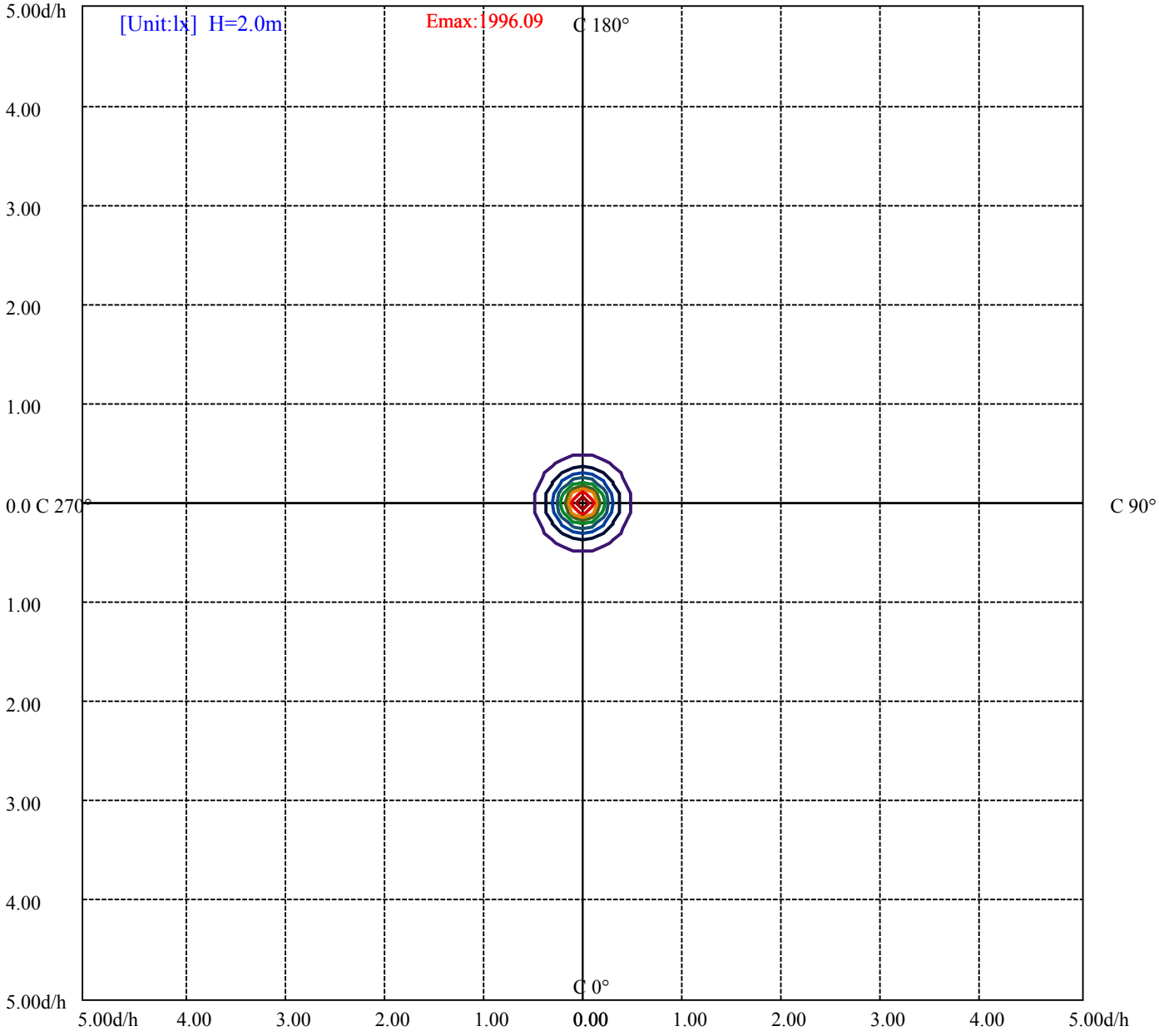
Imax:7984.34

(10%Imax) 798.434
(20%Imax) 1596.87
(30%Imax) 2395.3
(40%Imax) 3193.74
(50%Imax) 3992.17
(60%Imax) 4790.6
(70%Imax) 5589.04
(80%Imax) 6387.47
(90%Imax) 7185.91

Equipment: GMS1980 Date: 2023/11/01 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

NT 2-2644-L

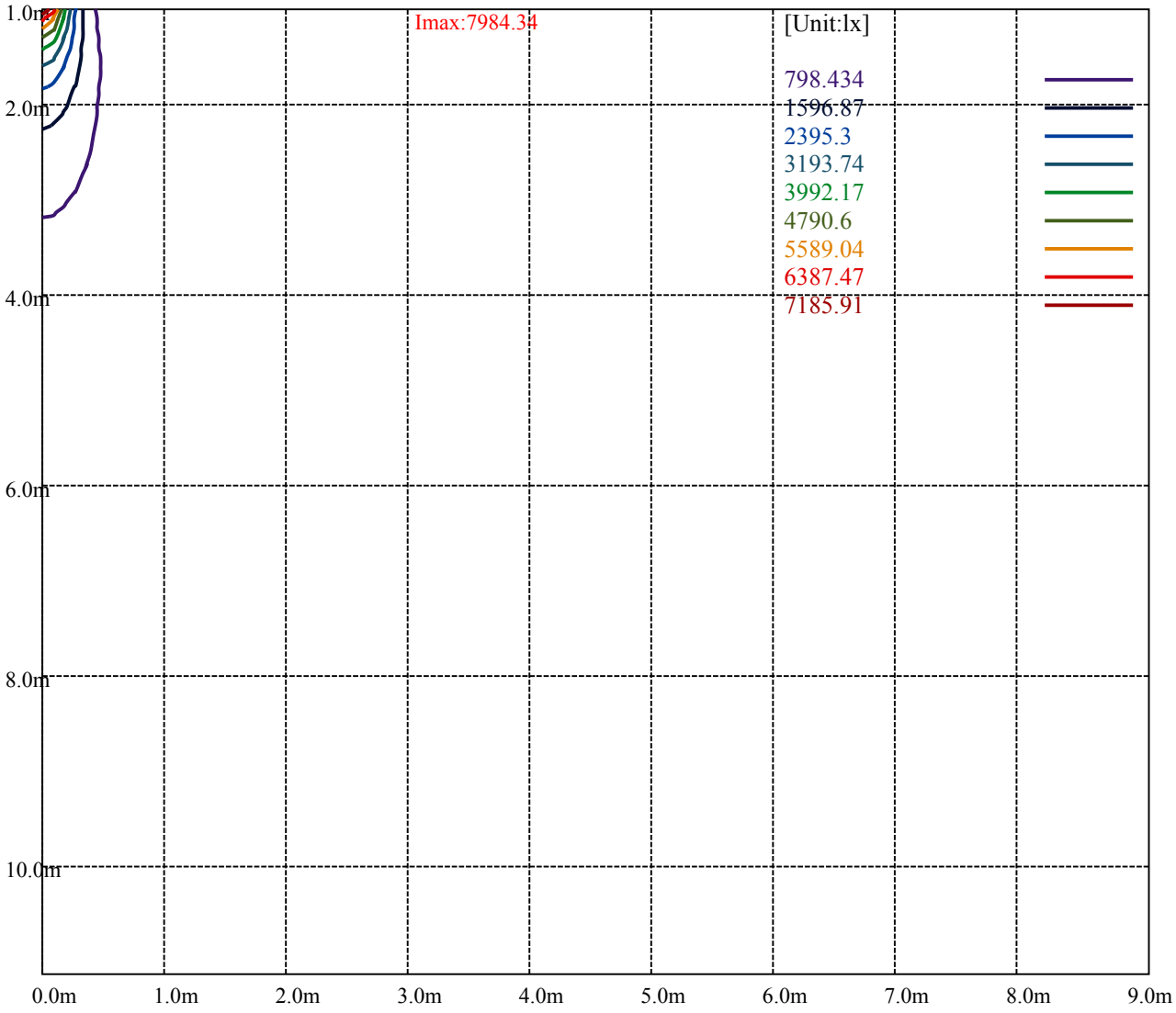
ISO illuminance diagram



(10%Emax) 199.6082
(20%Emax) 399.2175
(30%Emax) 598.825
(40%Emax) 798.4325
(50%Emax) 998.0425
(60%Emax) 1197.65
(70%Emax) 1397.257
(80%Emax) 1596.868
(90%Emax) 1796.475

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/11/01
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/01
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 2-2644-L

Luminance Limitting Curve(no luminous side)

Luminance Table

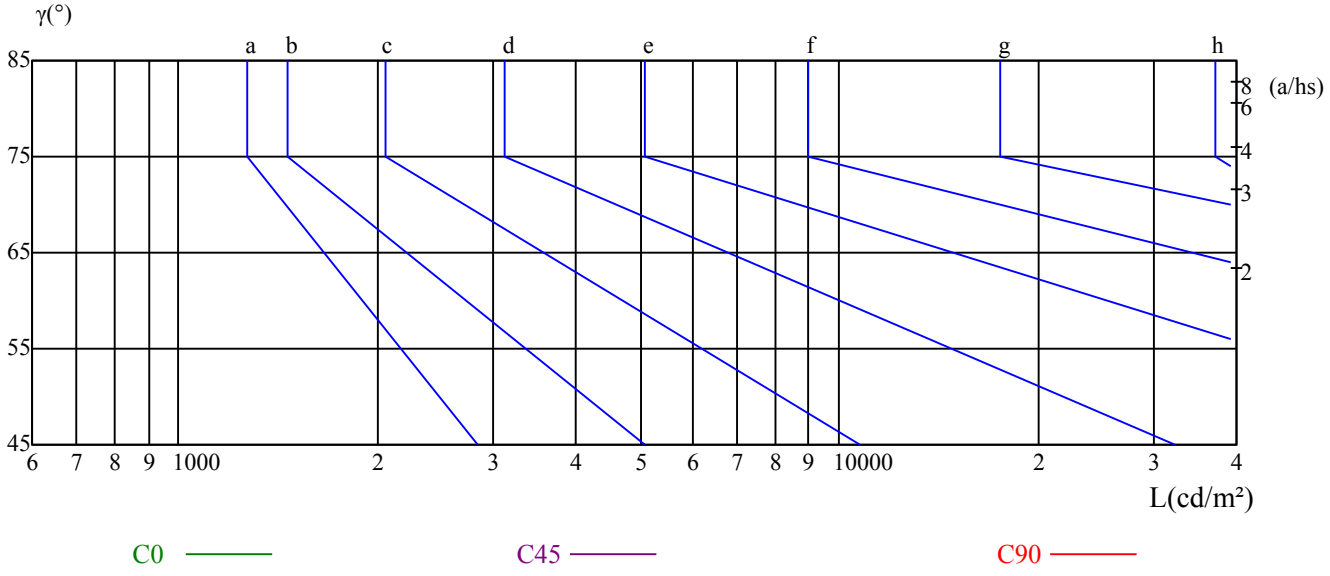
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS1980
Temperature(°C): 0.0

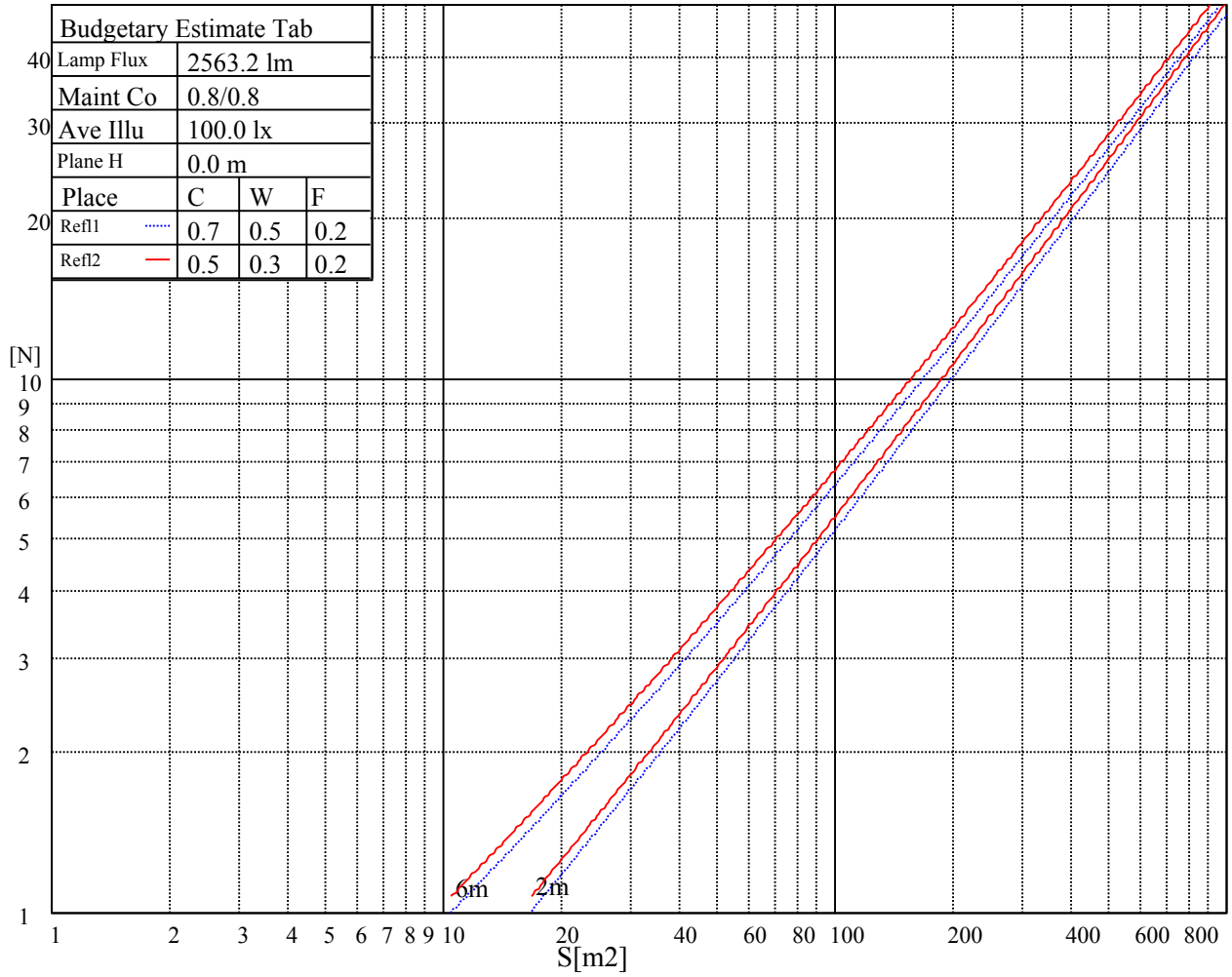
Date: 2023/11/01
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

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

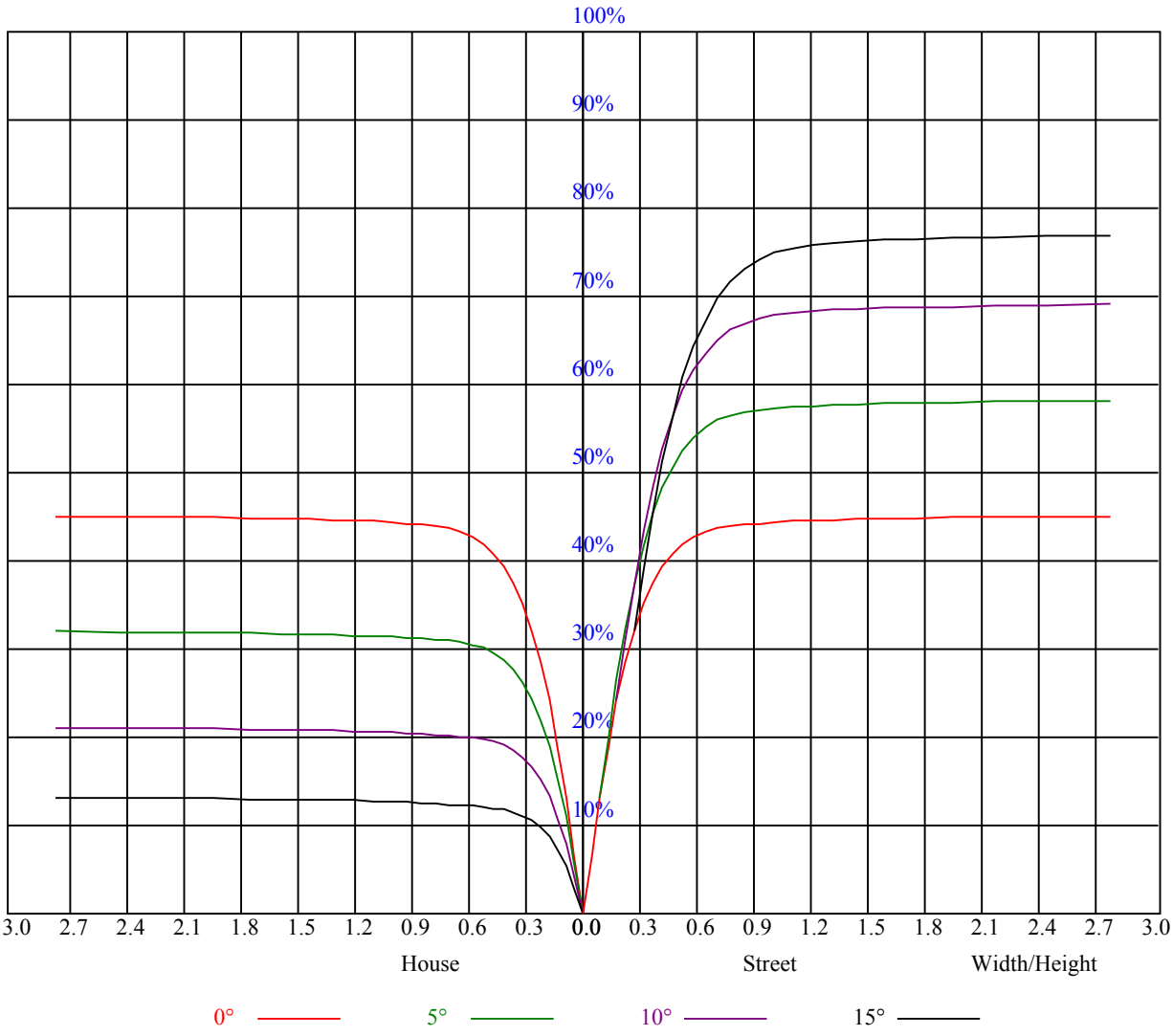


Equipment: GMS1980 Date: 2023/11/01 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.02	0.99	0.98	1.00	0.98	0.96	0.96	0.94	0.93	0.93	0.91	0.90	0.89	0.89	0.88	0.86
2	0.96	0.93	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	0.90	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	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.72
6	0.79	0.75	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	0.65	0.64
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	0.65	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: 2023/11/01	Operator: NT07
Temperature(°C): 0.0	Humidity(%): 0.0%	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	7967.60	7831.98	7585.66	7349.85	7075.30	6676.20	6324.70	5946.08	5545.32
45.0	8014.65	7954.87	7816.48	7584.55	7355.94	7096.33	6787.46	6362.34	5997.56
90.0	7944.35	7745.08	7545.25	7317.75	7047.07	6656.27	6329.13	5957.71	5565.80
135.0	8010.77	7933.83	7788.81	7587.87	7294.50	6991.16	6669.56	6271.01	5902.35
180.0	7967.60	8019.08	7977.01	7884.01	7690.83	7369.22	7099.10	6783.58	6439.84
225.0	8014.65	8004.68	7908.92	7695.26	7383.06	7084.71	6760.34	6303.67	5923.94
270.0	7944.35	8003.02	8029.59	7923.87	7737.88	7487.68	7140.06	6815.14	6459.77
315.0	8010.77	8004.13	7870.17	7653.74	7411.29	7133.97	6744.84	6395.00	6032.44
360.0	7967.60	7831.98	7585.66	7349.85	7075.30	6676.20	6324.70	5946.08	5545.32

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5039.95	4631.44	4236.76	3793.38	3467.90	3171.21	2828.57	2586.12	2369.69
45.0	5602.34	5192.17	4686.79	4293.78	3855.93	3531.56	3229.88	2876.17	2625.97
90.0	5055.44	4644.72	4165.91	3814.42	3503.33	3139.10	2866.76	2623.21	2401.24
135.0	5518.75	5106.37	4695.09	4216.28	3854.82	3531.56	3177.85	2907.17	2592.76
180.0	5976.53	5591.27	5191.06	4784.77	4293.23	3915.16	3503.33	3195.56	2908.28
225.0	5550.86	5061.53	4670.18	4274.96	3906.30	3484.51	3186.15	2909.39	2660.85
270.0	5999.78	5639.42	5248.63	4741.04	4337.51	3956.68	3617.91	3310.15	2950.90
315.0	5656.58	5151.76	4745.46	4351.35	3895.23	3561.45	3255.90	2918.80	2666.38
360.0	5039.95	4631.44	4236.76	3793.38	3467.90	3171.21	2828.57	2586.12	2369.69

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2126.13	1935.72	1763.57	1569.27	1430.89	1086.65	1086.65	1029.47	918.43
45.0	2411.20	2206.95	1966.71	1796.22	1635.70	1487.35	1322.95	1198.41	1076.63
90.0	2145.51	1960.62	1786.26	1592.52	1449.71	1099.93	1099.93	1043.75	929.00
135.0	2381.31	2178.72	1942.91	1770.21	1615.22	1472.41	1305.24	1179.59	1061.13
180.0	2593.87	2375.22	2173.18	1982.77	1761.91	1595.84	1442.51	1314.09	1160.21
225.0	2390.17	2185.91	1946.23	1771.87	1619.65	1439.19	1092.90	1092.90	1063.29
270.0	2706.79	2484.27	2226.88	2034.80	1808.40	1641.79	1496.76	1331.25	1205.05
315.0	2443.31	2184.25	1988.85	1813.38	1655.63	1472.41	1246.56	1097.61	1097.61
360.0	2126.13	1935.72	1763.57	1569.27	1430.89	1086.65	1086.65	1029.47	918.43

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	807.83	702.99	587.14	504.82	430.26	360.74	286.51	236.25	193.90
45.0	930.49	819.79	714.61	597.82	515.34	438.95	355.37	297.25	283.41
90.0	818.07	689.04	594.28	489.82	414.27	346.85	289.72	239.52	188.26
135.0	942.12	801.52	695.24	601.14	514.79	417.37	348.17	288.95	288.95
180.0	1046.74	933.82	799.86	696.90	599.48	495.41	420.69	339.87	283.41
225.0	920.03	808.61	704.10	606.73	499.79	424.06	356.31	297.03	233.87
270.0	1087.14	969.24	832.52	727.90	627.71	538.04	438.40	369.21	308.32
315.0	962.77	853.94	749.71	624.78	535.66	455.01	365.22	303.34	239.13
360.0	807.83	702.99	587.14	504.82	430.26	360.74	286.51	236.25	193.90

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	151.56	124.77	99.19	84.14	72.62	63.99	55.91	50.87	46.61
45.0	283.41	157.65	131.02	110.60	91.06	79.32	69.91	62.16	54.58
90.0	155.71	130.08	109.27	89.78	77.94	68.42	59.06	53.25	47.66
135.0	182.33	149.68	117.74	98.97	84.58	71.18	62.99	56.02	50.65
180.0	283.41	224.02	149.18	123.38	102.90	87.07	72.13	63.32	56.74
225.0	192.08	158.59	125.87	105.39	86.19	75.00	66.48	59.78	53.19
270.0	281.20	281.20	162.68	134.68	107.61	91.22	76.11	67.14	60.22
315.0	196.28	161.47	133.29	110.54	88.90	76.17	66.59	59.34	52.42
360.0	151.56	124.77	99.19	84.14	72.62	63.99	55.91	50.87	46.61

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	42.95	39.25	36.81	34.71	32.44	31.05	29.84	28.67	27.84
45.0	49.76	45.83	41.74	38.97	36.59	34.15	32.66	31.27	29.95
90.0	44.06	40.96	37.75	35.70	33.82	32.38	30.72	29.72	28.84
135.0	45.33	41.85	38.97	36.37	33.71	32.05	30.33	29.23	28.40
180.0	51.48	46.22	42.73	39.58	36.48	34.32	32.05	30.67	29.39
225.0	48.88	45.17	41.90	38.53	36.20	34.21	32.22	30.83	29.72
270.0	54.69	49.04	45.22	42.01	39.25	36.31	34.26	32.66	30.89
315.0	47.99	44.23	40.35	37.64	34.93	32.99	31.50	29.89	28.84
360.0	42.95	39.25	36.81	34.71	32.44	31.05	29.84	28.67	27.84

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.07	26.24	25.57	24.91	24.13	23.36	22.58	21.92	21.15
45.0	29.01	28.12	27.34	26.40	25.68	24.96	24.08	23.03	22.31
90.0	28.01	27.01	26.18	25.52	24.80	23.75	22.92	22.03	21.31
135.0	27.51	26.79	26.18	25.57	24.85	24.19	23.36	22.42	21.75
180.0	28.40	27.46	26.79	26.13	25.52	24.69	24.08	23.47	22.64
225.0	28.56	27.79	27.07	26.18	25.52	24.85	23.91	23.03	22.31
270.0	29.72	28.78	27.73	27.01	26.13	25.30	24.63	23.91	23.03
315.0	28.01	27.29	26.40	25.74	25.08	24.41	23.58	22.81	22.03
360.0	27.07	26.24	25.57	24.91	24.13	23.36	22.58	21.92	21.15

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.43	19.82	19.32	18.54	17.99	17.27	16.77	16.33	15.67
45.0	21.42	20.70	20.09	19.26	18.71	18.05	17.44	16.77	16.16
90.0	20.59	19.76	19.21	18.60	17.88	17.16	16.61	16.00	15.44
135.0	21.03	20.31	19.65	19.04	18.43	17.66	17.05	16.38	15.83
180.0	21.75	21.03	20.20	19.60	19.04	18.32	17.71	17.21	16.66
225.0	21.59	20.76	20.04	19.54	18.93	18.10	17.49	16.83	16.33
270.0	22.09	21.42	20.65	20.04	19.32	18.71	18.10	17.33	16.77
315.0	21.15	20.48	19.82	19.10	18.49	17.82	17.16	16.61	16.05
360.0	20.43	19.82	19.32	18.54	17.99	17.27	16.77	16.33	15.67

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.28	15.00	14.67	14.23	13.95	13.56	13.23	12.79	12.40
45.0	15.61	15.17	14.67	14.28	13.89	13.51	13.12	12.79	12.45
90.0	14.89	14.45	14.06	13.62	13.28	12.95	12.57	12.23	11.90
135.0	15.28	14.83	14.34	14.00	13.62	13.28	12.95	12.62	12.34
180.0	16.05	15.55	15.11	14.72	14.39	14.12	13.84	13.56	13.28
225.0	15.83	15.22	14.83	14.50	14.17	13.78	13.45	13.62	12.95
270.0	16.05	15.50	15.06	14.50	14.12	13.78	13.40	13.01	12.68
315.0	15.44	14.89	14.45	14.06	13.67	13.28	13.01	12.68	12.34
360.0	15.28	15.00	14.67	14.23	13.95	13.56	13.23	12.79	12.40

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.12	11.73	11.40	11.13	10.79	10.24	10.02	9.85	9.85
45.0	12.07	11.62	11.29	11.07	10.85	10.35	10.13	9.96	9.74
90.0	11.62	11.35	11.13	10.85	10.41	10.19	9.96	9.74	9.74
135.0	12.07	11.79	11.40	11.18	10.63	10.35	10.13	9.96	9.74
180.0	13.06	12.73	12.29	11.96	11.57	10.68	10.35	10.13	9.96
225.0	12.45	12.01	11.62	11.35	11.07	10.41	10.19	9.96	9.80
270.0	12.34	12.01	11.68	11.35	11.02	10.85	10.41	10.13	9.91
315.0	12.07	11.73	11.40	11.18	10.85	10.63	10.24	10.02	9.91
360.0	12.12	11.73	11.40	11.13	10.79	10.24	10.02	9.85	9.85

Intensity data(cd)

C/γ(°)	90.0
0.0	9.80
45.0	9.74
90.0	9.74
135.0	9.80
180.0	9.80
225.0	9.74
270.0	9.74
315.0	9.74
360.0	9.80