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NT

Client:
LumCAT: 2-2639-L
Luminaire: 92.70.411.00
Report No: 20231027-B024
Ballast type: AC

Test No: 20231027-C024	Voltage(V): 35.010
LampCAT: Fortimo_SLM_C_1205	Current(A): 0.401
Lamp flux(lm): 2255.2	Power (W): 14.039
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2131.24, Efficiency(%): 94.50% , Luminous Efficacy(lm/W): 151.81
Central intensity(cd): 9602.604, Maximum intensity(cd): 9602.604
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=19.8
[C90/270]Total=19.8
Field angle(10%Imax): [C0/180]Total=51.6
[C90/270]Total=51.6
Beam angle of C0 plane : 19.82
Aveage BeamAngle(IEC 61341):19.82
Maximum s/h(1/2): C0_180=0.34 C90_270=0.34
Maximum s/h(1/4): C0_180=0.37 C90_270=0.37
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.50%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.020%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9602.604	0.000	0	0.00%	0.00%
1.0	9529.745	9.154	9.154	0.41%	0.43%
2.0	9304.387	27.033	36.187	1.20%	1.70%
3.0	8938.430	43.631	79.818	1.93%	3.75%
4.0	8458.445	58.233	138.051	2.58%	6.48%
5.0	7876.541	70.272	208.323	3.12%	9.77%
6.0	7263.569	79.565	287.888	3.53%	13.51%
7.0	6601.401	86.060	373.948	3.82%	17.55%
8.0	5956.255	89.873	463.821	3.99%	21.76%
9.0	5315.399	91.351	555.171	4.05%	26.05%
10.0	4750.308	91.091	646.262	4.04%	30.32%
11.0	4179.820	89.230	735.493	3.96%	34.51%
12.0	3693.677	86.069	821.561	3.82%	38.55%
13.0	3263.164	82.560	904.121	3.66%	42.42%
14.0	2860.121	78.378	982.499	3.48%	46.10%
15.0	2544.259	74.194	1056.693	3.29%	49.58%
16.0	2254.275	70.312	1127.004	3.12%	52.88%
17.0	2017.777	66.527	1193.532	2.95%	56.00%
18.0	1820.096	63.278	1256.81	2.81%	58.97%
19.0	1666.005	60.651	1317.461	2.69%	61.82%
20.0	1518.903	58.293	1375.754	2.58%	64.55%
21.0	1387.507	55.809	1431.563	2.47%	67.17%
22.0	1242.951	52.860	1484.423	2.34%	69.65%
23.0	1161.118	50.444	1534.867	2.24%	72.02%
24.0	1094.631	49.319	1584.185	2.19%	74.33%
25.0	1017.558	48.027	1632.212	2.13%	76.59%
26.0	943.122	46.282	1678.494	2.05%	78.76%
27.0	870.422	44.369	1722.863	1.97%	80.84%
28.0	792.650	42.105	1764.968	1.87%	82.81%
29.0	720.911	39.599	1804.567	1.76%	84.67%
30.0	638.352	36.700	1841.267	1.63%	86.39%
31.0	563.320	33.441	1874.708	1.48%	87.96%
32.0	487.444	30.103	1904.811	1.33%	89.38%
33.0	413.491	26.542	1931.353	1.18%	90.62%
34.0	347.226	23.022	1954.374	1.02%	91.70%
35.0	286.510	19.682	1974.056	0.87%	92.62%
36.0	248.351	17.030	1991.086	0.76%	93.42%
37.0	200.207	14.629	2005.715	0.65%	94.11%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	146.646	11.577	2017.293	0.51%	94.65%
39.0	111.448	8.809	2026.102	0.39%	95.07%
40.0	86.926	6.919	2033.021	0.31%	95.39%
41.0	70.126	5.593	2038.613	0.25%	95.65%
42.0	57.409	4.634	2043.247	0.21%	95.87%
43.0	48.614	3.927	2047.174	0.17%	96.06%
44.0	42.117	3.424	2050.599	0.15%	96.22%
45.0	37.564	3.062	2053.661	0.14%	96.36%
46.0	34.195	2.806	2056.467	0.12%	96.49%
47.0	31.628	2.618	2059.085	0.12%	96.61%
48.0	29.711	2.480	2061.565	0.11%	96.73%
49.0	28.196	2.378	2063.943	0.11%	96.84%
50.0	27.026	2.302	2066.245	0.10%	96.95%
51.0	26.099	2.248	2068.493	0.10%	97.06%
52.0	25.497	2.214	2070.707	0.10%	97.16%
53.0	25.096	2.201	2072.908	0.10%	97.26%
54.0	24.985	2.207	2075.115	0.10%	97.37%
55.0	25.027	2.232	2077.348	0.10%	97.47%
56.0	25.227	2.271	2079.619	0.10%	97.58%
57.0	25.511	2.320	2081.938	0.10%	97.69%
58.0	25.546	2.361	2084.3	0.10%	97.80%
59.0	25.297	2.377	2086.676	0.11%	97.91%
60.0	24.625	2.358	2089.035	0.10%	98.02%
61.0	23.470	2.295	2091.33	0.10%	98.13%
62.0	22.100	2.196	2093.526	0.10%	98.23%
63.0	20.363	2.065	2095.591	0.09%	98.33%
64.0	18.799	1.922	2097.513	0.09%	98.42%
65.0	17.623	1.803	2099.315	0.08%	98.50%
66.0	16.634	1.709	2101.025	0.08%	98.58%
67.0	15.900	1.636	2102.66	0.07%	98.66%
68.0	15.243	1.578	2104.238	0.07%	98.73%
69.0	14.731	1.529	2105.767	0.07%	98.81%
70.0	14.226	1.487	2107.254	0.07%	98.87%
71.0	13.825	1.450	2108.704	0.06%	98.94%
72.0	13.430	1.417	2110.121	0.06%	99.01%
73.0	13.077	1.386	2111.508	0.06%	99.07%
74.0	12.745	1.358	2112.865	0.06%	99.14%
75.0	12.427	1.330	2114.195	0.06%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.164	1.305	2115.5	0.06%	99.26%
77.0	11.873	1.282	2116.782	0.06%	99.32%
78.0	11.624	1.258	2118.04	0.06%	99.38%
79.0	11.354	1.235	2119.274	0.05%	99.44%
80.0	11.071	1.209	2120.483	0.05%	99.50%
81.0	10.815	1.184	2121.667	0.05%	99.55%
82.0	10.524	1.157	2122.824	0.05%	99.61%
83.0	10.254	1.130	2123.954	0.05%	99.66%
84.0	10.012	1.104	2125.058	0.05%	99.71%
85.0	9.791	1.081	2126.139	0.05%	99.76%
86.0	9.576	1.059	2127.197	0.05%	99.81%
87.0	9.396	1.038	2128.236	0.05%	99.86%
88.0	9.209	1.019	2129.255	0.05%	99.91%
89.0	9.016	0.999	2130.254	0.04%	99.95%
90.0	8.884	0.981	2131.235	0.04%	100.00%

Zonal flux distribution table

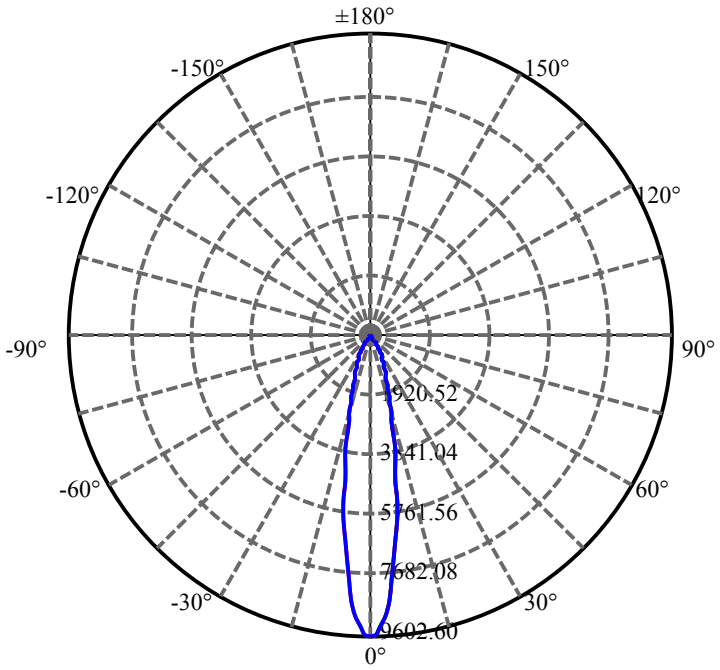
ZONAL LUMEN SUMMARY

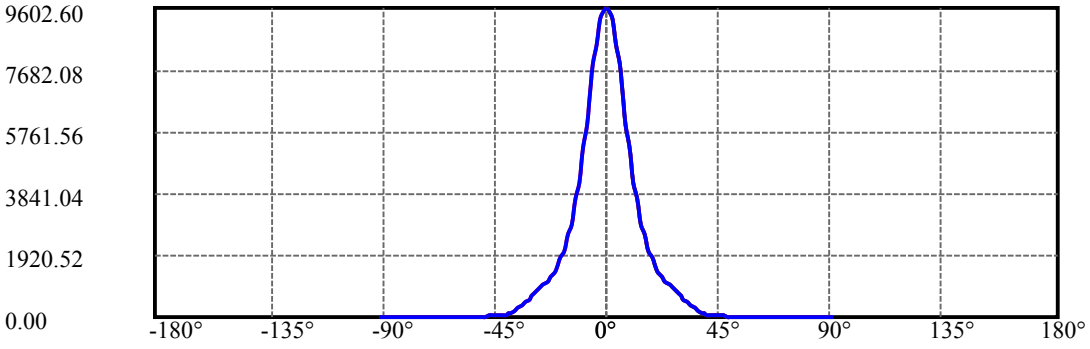
Zone	Lumens	%Lamp	%Fixt
0-30	1841.27	81.65%	86.39%
0-40	2033.02	90.15%	95.39%
0-60	2089.03	92.63%	98.02%
0-90	2130.25	94.46%	99.95%
0-120	2130.25	94.46%	99.95%
0-180	2131.24	94.50%	100.00%
60-90	41.22	1.83%	1.93%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.60	1704.99	75.60%	80.00%

ZONAL LUMEN SUMMARY

0-10	646.26
10-20	729.49
20-30	465.51
30-40	191.75
40-50	33.22
50-60	22.79
60-70	18.22
70-80	13.23
80-90	9.77
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):

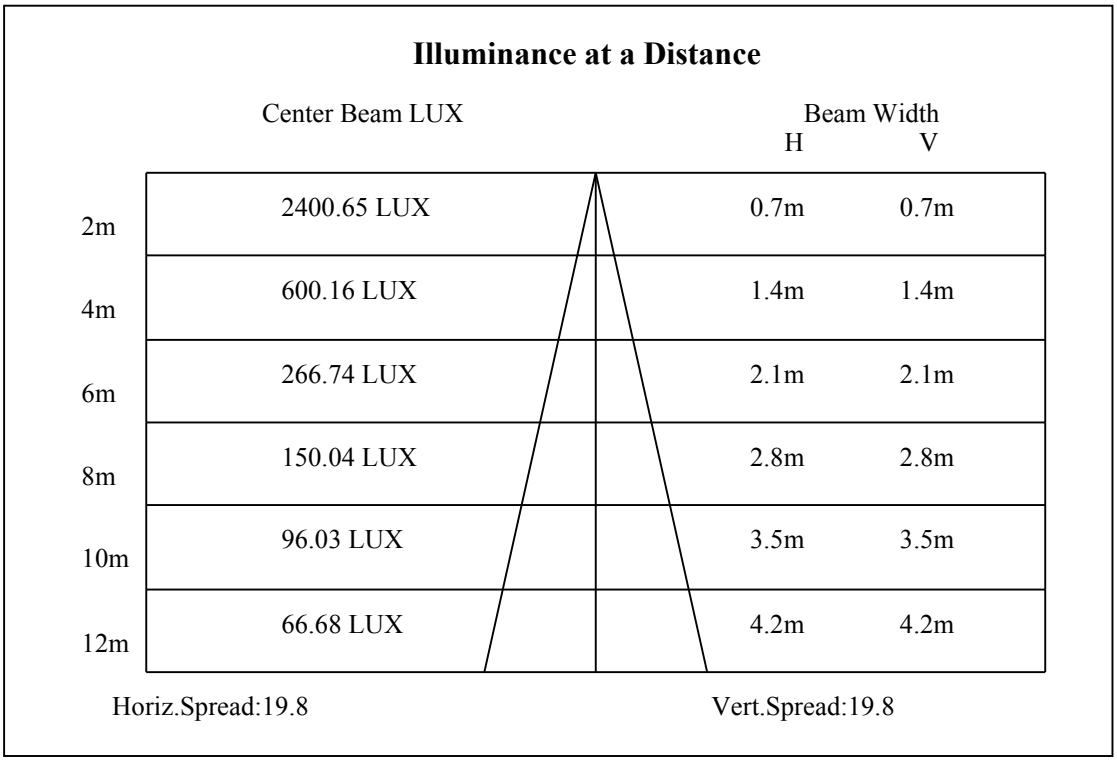
C0/C180:

C90/C270:

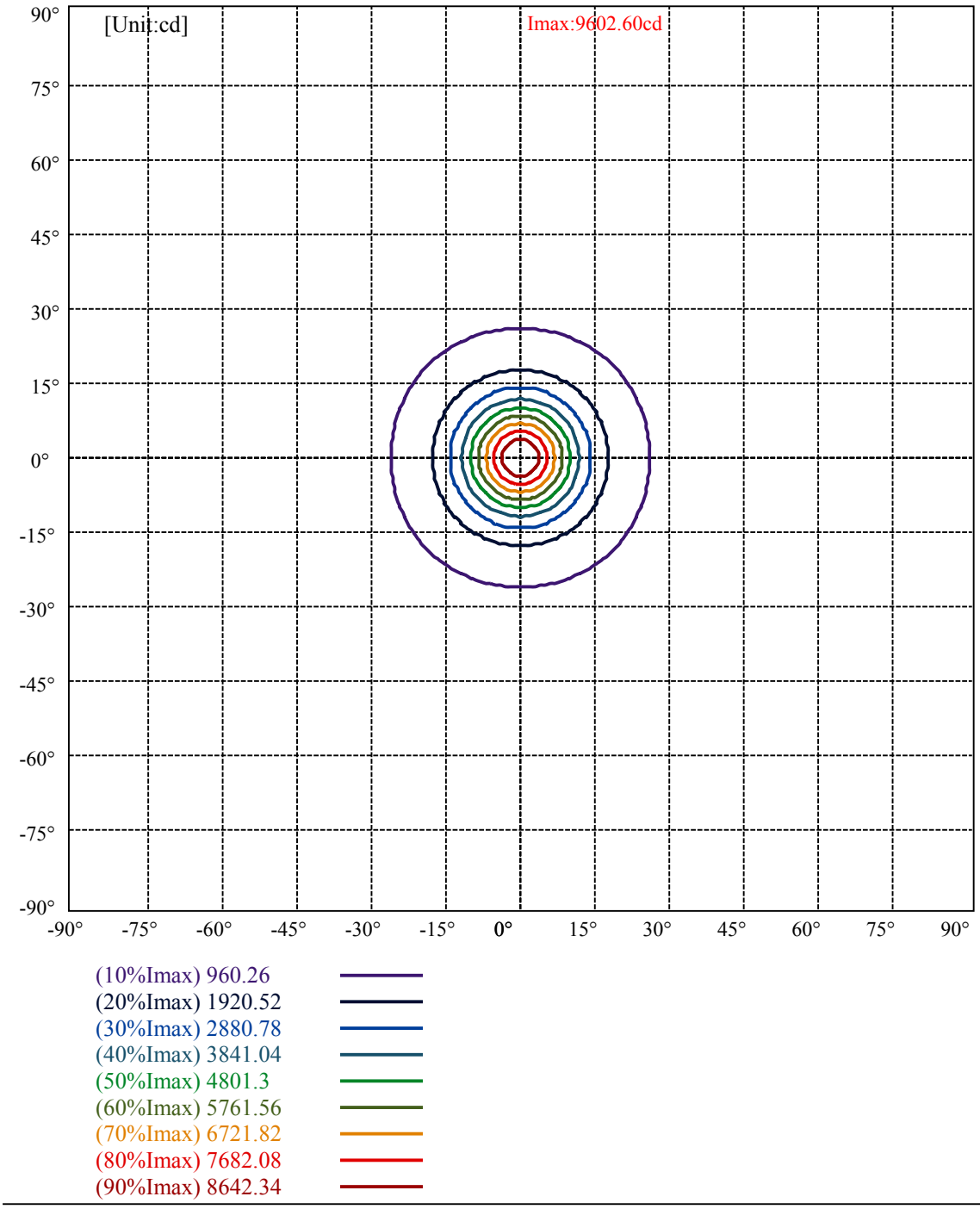
Field angle(10%Imax):C0/180Left:25.8 Right:25.8
:C90/270Left:25.8 Right:25.8

Beam Angle(50%Imax):C0/180Left:9.9 Right:9.9
:C90/270Left:9.9 Right:9.9

Lux distance Curve



ISO-Intensity(V-H)

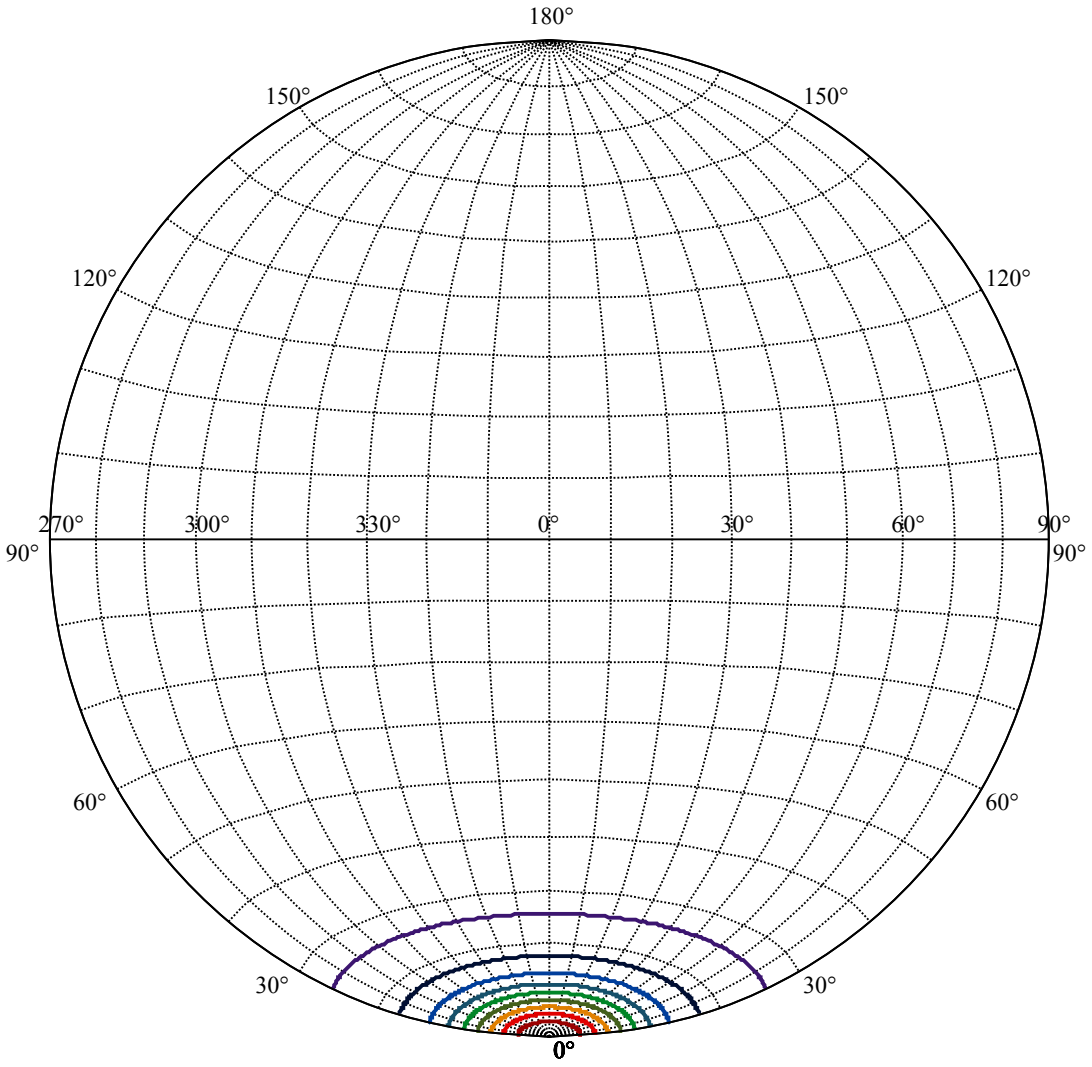


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/27
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:9602.60

(10%Imax) 960.26
(20%Imax) 1920.52
(30%Imax) 2880.78
(40%Imax) 3841.04
(50%Imax) 4801.3
(60%Imax) 5761.56
(70%Imax) 6721.82
(80%Imax) 7682.08
(90%Imax) 8642.34

Equipment: GMS1980 Date: 2023/10/27 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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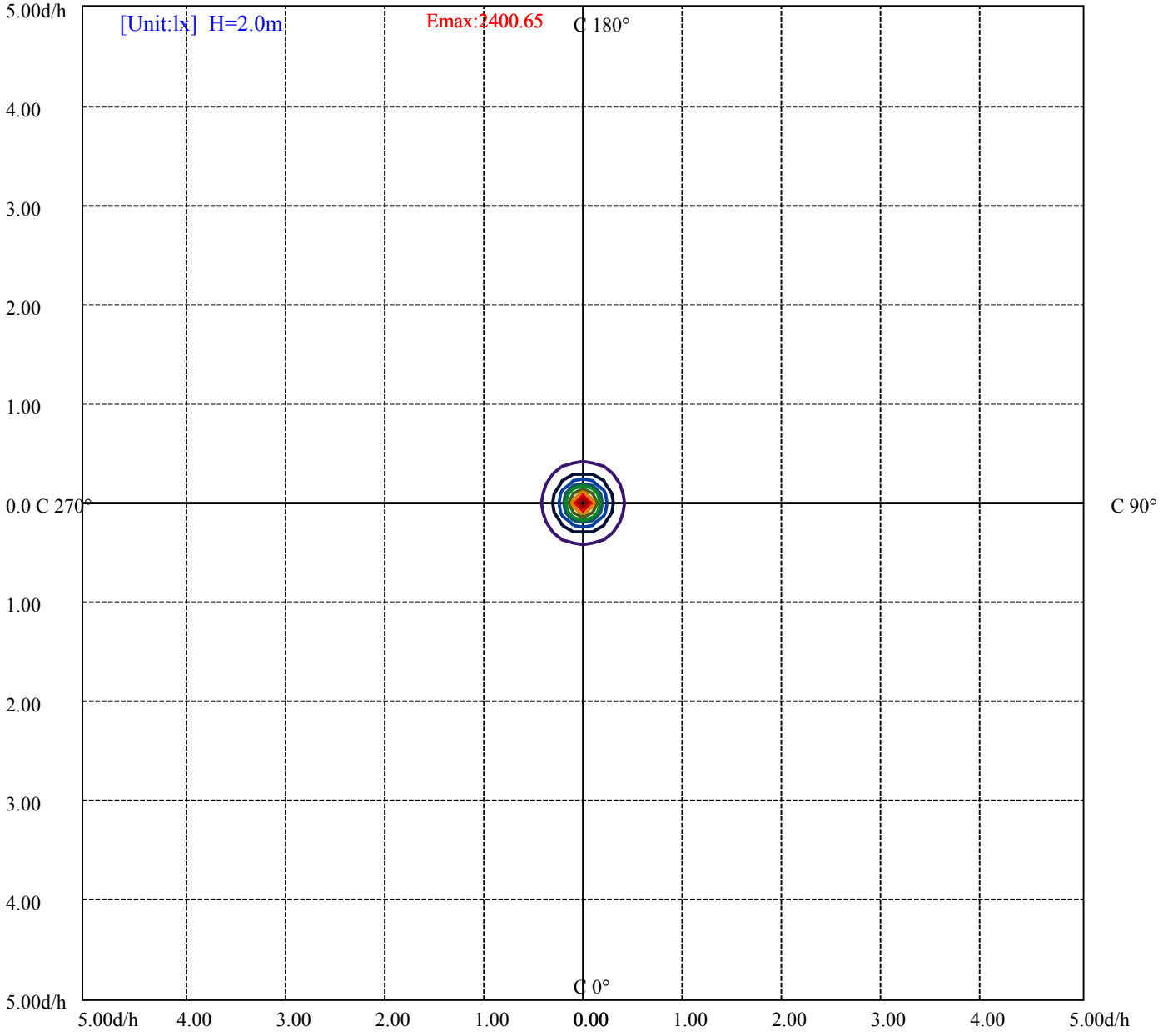
ISO illuminance diagram



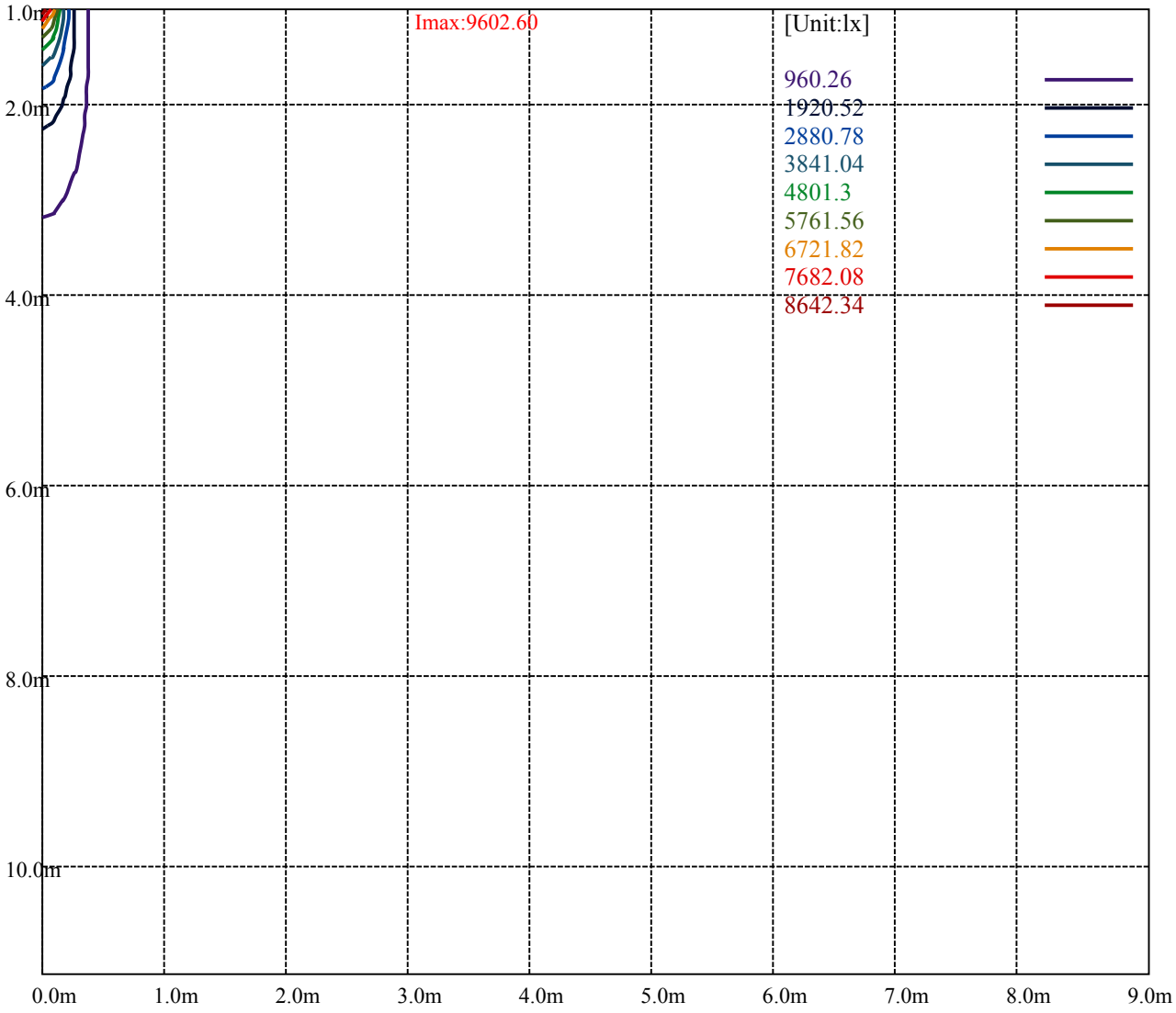
(10%Emax) 240.0647
(20%Emax) 480.13
(30%Emax) 720.195
(40%Emax) 960.26
(50%Emax) 1200.325
(60%Emax) 1440.39
(70%Emax) 1680.455
(80%Emax) 1920.52
(90%Emax) 2160.583

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/27
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/27
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 2-2639-L

Luminance Limitting Curve(no luminous side)

Luminance Table

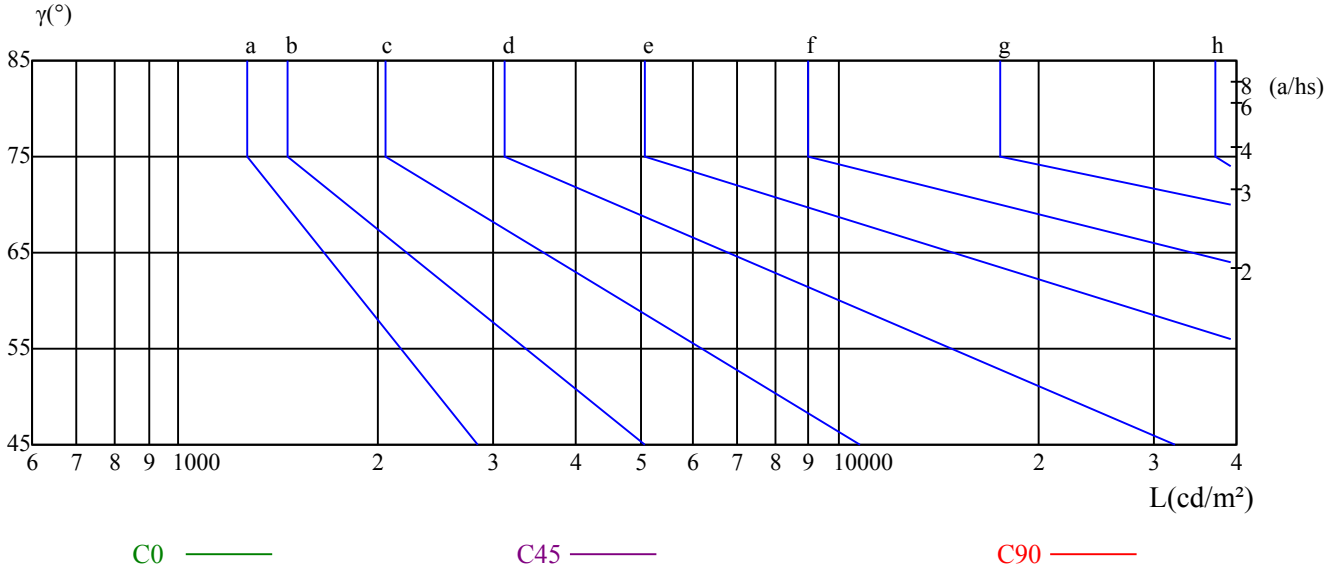
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

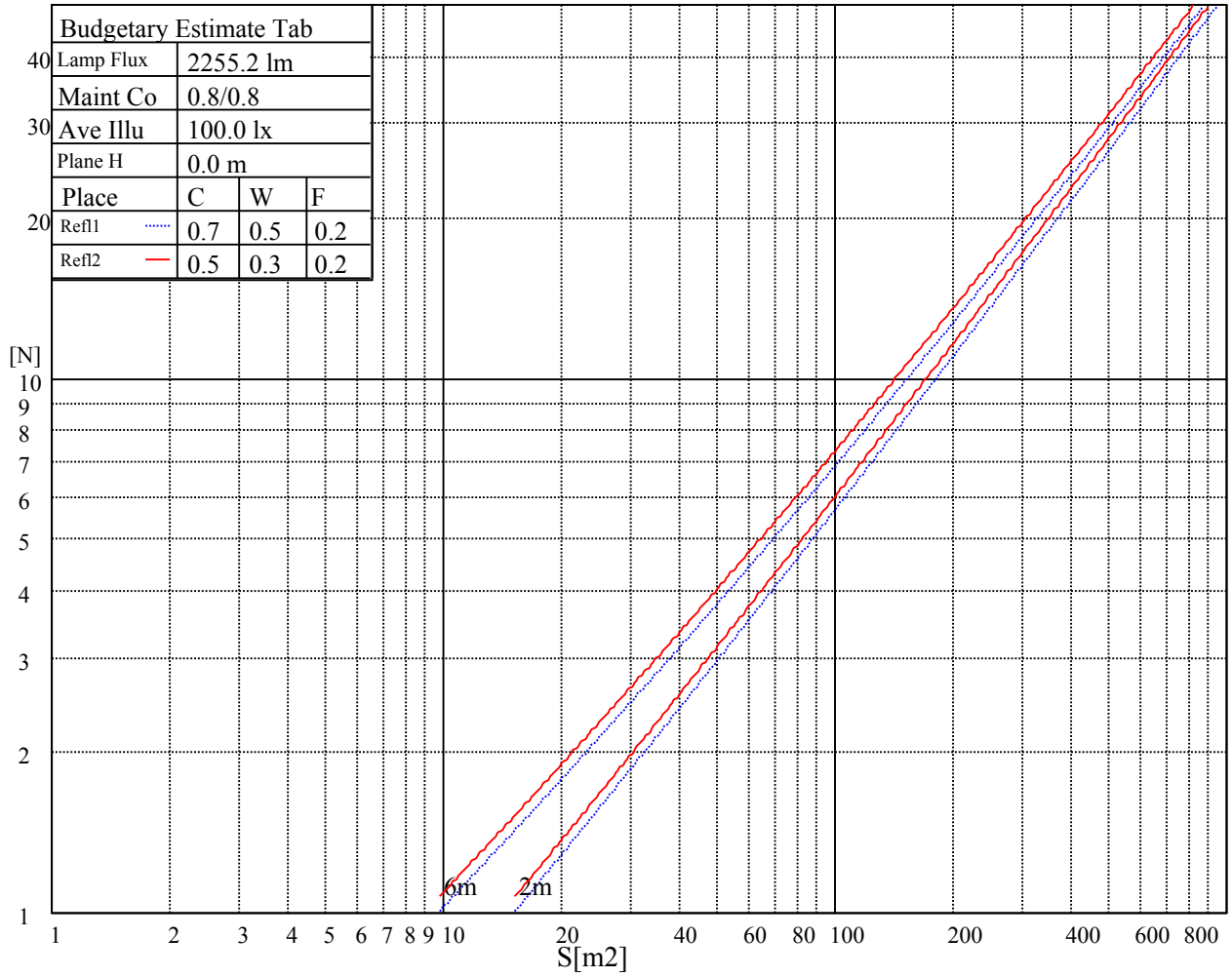
Date: 2023/10/27
Humidity(%): 0.0%

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

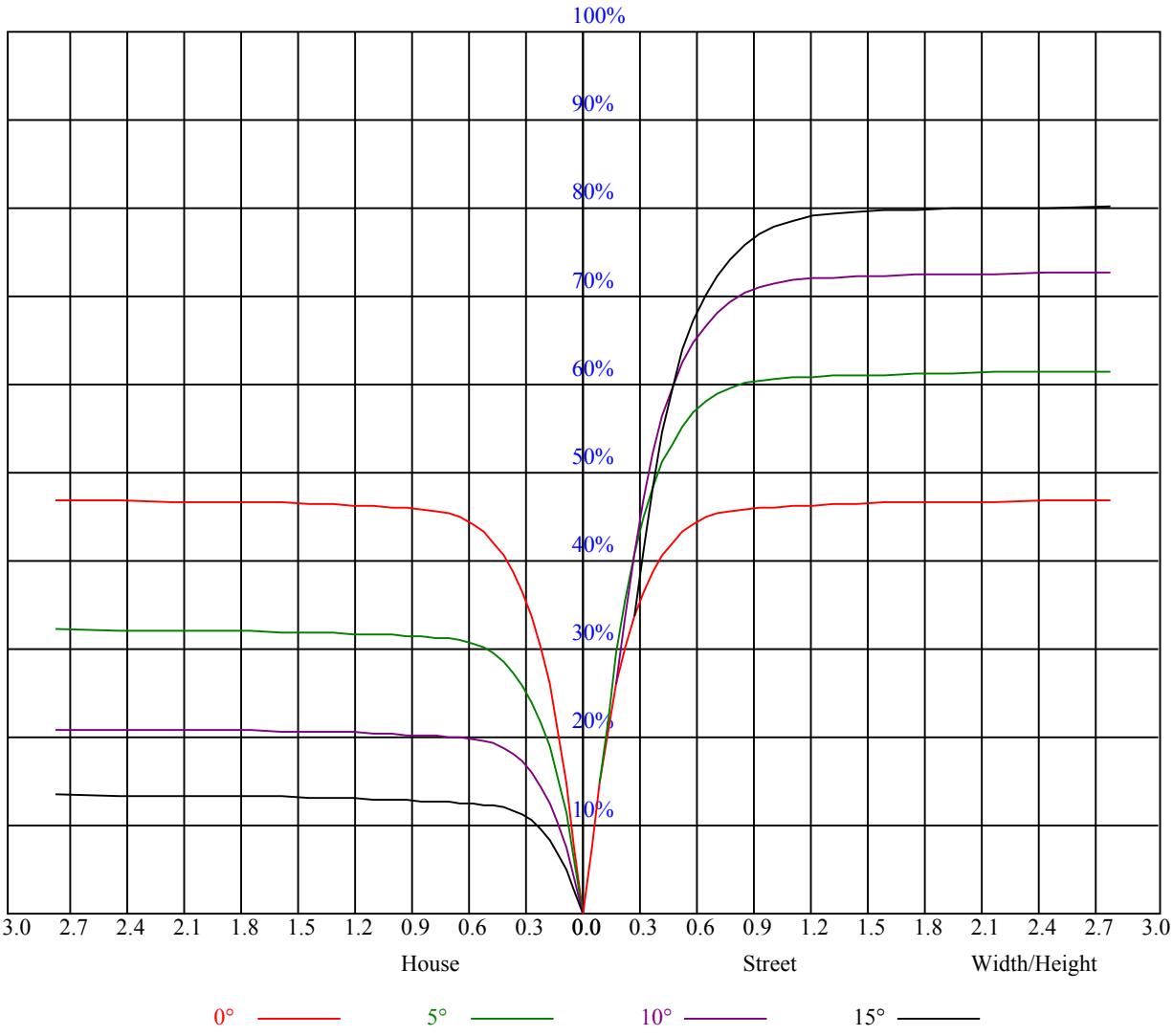


Equipment: GMS1980 Date: 2023/10/27 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.95
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
2	1.00	0.96	0.94	0.98	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.89	0.90	0.88	0.87	0.85
3	0.95	0.91	0.88	0.93	0.90	0.87	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.82
4	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.83	0.80	0.84	0.81	0.79	0.78
5	0.86	0.82	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
6	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
7	0.79	0.75	0.72	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
8	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.67
9	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.62

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/27	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	9591.12	9413.99	9084.63	8513.38	7980.33	7388.60	6633.58	6008.08	5387.01
45.0	9664.74	9622.12	9437.79	9108.99	8553.79	8017.97	7430.11	6682.29	6052.92
90.0	9524.14	9286.67	8812.85	8345.66	7799.32	7221.98	6488.00	5861.95	5259.70
135.0	9630.42	9488.71	9249.03	8755.28	8244.92	7690.28	7107.40	6385.04	5772.83
180.0	9591.12	9670.27	9542.96	9318.78	8981.12	8375.00	7833.64	7241.36	6643.54
225.0	9664.74	9536.87	9292.21	8922.45	8439.21	7752.83	7146.70	6545.56	5800.50
270.0	9524.14	9635.40	9596.65	9399.59	9080.20	8503.42	7969.26	7361.48	6628.59
315.0	9630.42	9583.92	9418.97	9143.31	8588.66	8062.25	7499.86	6725.46	6104.95
360.0	9591.12	9413.99	9084.63	8513.38	7980.33	7388.60	6633.58	6008.08	5387.01

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4710.04	4206.32	3747.99	3335.61	2894.44	2591.66	2322.08	2096.79	1866.52
45.0	5305.09	4772.03	4257.80	3682.12	3266.97	2898.87	2581.69	2243.48	2021.51
90.0	4721.11	4101.70	3647.25	3236.52	2796.46	2498.66	2182.59	1972.25	1796.22
135.0	5182.20	4638.63	4024.76	3575.29	3169.55	2737.24	2443.86	2131.67	1929.63
180.0	5884.09	5285.16	4583.28	4088.42	3631.20	3128.03	2784.29	2482.61	2168.75
225.0	5200.47	4654.13	4036.94	3591.34	3183.39	2742.77	2444.41	2180.38	1964.50
270.0	6039.63	5435.72	4862.26	4219.05	3762.38	3331.73	2959.76	2561.76	2305.48
315.0	5480.56	4908.76	4278.28	3821.06	3400.93	2952.01	2635.38	2365.26	2089.60
360.0	4710.04	4206.32	3747.99	3335.61	2894.44	2591.66	2322.08	2096.79	1866.52

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1707.11	1569.27	1419.27	1314.09	1087.92	1087.92	1028.86	936.47	865.67
45.0	1844.94	1689.95	1557.65	1415.39	1315.76	1202.83	1122.57	1042.86	950.97
90.0	1613.00	1486.24	1371.11	1206.71	1091.68	1072.64	997.64	930.16	862.19
135.0	1763.01	1622.41	1465.21	1360.04	1265.38	1181.25	1085.48	1012.97	942.67
180.0	1959.52	1782.39	1624.63	1485.69	1346.20	1249.88	1160.21	1060.02	995.26
225.0	1740.87	1592.52	1465.76	1356.72	1090.02	1090.02	1071.37	1001.51	920.09
270.0	2030.92	1843.83	1684.41	1518.35	1410.41	1303.58	1190.10	1114.82	1037.33
315.0	1901.40	1741.42	1563.19	1443.07	1336.24	1100.82	1100.82	1041.64	970.79
360.0	1707.11	1569.27	1419.27	1314.09	1087.92	1087.92	1028.86	936.47	865.67

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	793.33	722.36	649.46	555.36	483.79	417.98	341.92	286.45	235.36
45.0	881.23	812.04	724.58	653.73	580.66	508.15	421.79	359.24	300.02
90.0	777.05	707.14	636.57	546.06	475.76	393.12	332.29	273.89	210.01
135.0	870.71	781.59	709.08	618.30	546.34	475.49	392.46	333.23	291.16
180.0	927.73	843.04	775.50	689.71	618.85	546.34	471.06	392.46	331.01
225.0	854.55	773.84	705.76	617.58	545.01	471.94	403.14	338.38	266.03
270.0	973.12	885.10	820.89	752.81	677.53	582.32	509.81	436.19	354.82
315.0	885.66	816.08	745.45	673.27	578.61	504.22	435.47	357.97	303.67
360.0	793.33	722.36	649.46	555.36	483.79	417.98	341.92	286.45	235.36

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	190.97	145.52	116.24	93.55	72.62	60.34	49.38	43.18	38.75
45.0	285.62	219.48	143.59	113.59	85.74	69.80	58.12	47.77	41.90
90.0	167.06	131.96	104.18	78.99	64.87	54.91	47.55	40.96	37.03
135.0	291.16	165.95	130.58	102.79	77.99	64.21	54.25	47.00	40.63
180.0	289.50	289.50	167.06	131.91	104.06	82.75	63.99	53.80	46.33
225.0	215.27	171.54	135.67	100.96	80.65	65.76	52.64	45.11	38.80
270.0	293.37	279.54	214.88	140.49	110.98	83.47	67.86	56.24	47.83
315.0	253.85	198.17	160.97	129.31	98.47	79.76	65.48	54.86	45.67
360.0	190.97	145.52	116.24	93.55	72.62	60.34	49.38	43.18	38.75

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	35.37	32.22	30.33	28.78	27.57	26.68	25.85	25.52	25.30
45.0	37.64	33.65	31.27	29.39	27.84	26.40	25.57	24.91	24.52
90.0	34.04	31.11	29.34	27.95	26.57	25.79	25.19	24.69	24.52
135.0	37.03	34.04	31.27	29.50	28.06	26.68	25.91	25.30	24.85
180.0	39.80	36.20	32.77	30.78	29.17	27.90	26.63	25.96	25.30
225.0	35.32	32.66	30.17	28.56	27.46	26.51	25.68	25.30	25.02
270.0	40.63	36.70	33.77	31.39	29.17	27.84	26.85	25.91	25.41
315.0	40.68	36.98	34.10	31.33	29.72	28.40	27.12	26.40	25.85
360.0	35.37	32.22	30.33	28.78	27.57	26.68	25.85	25.52	25.30

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.41	25.57	25.91	26.18	25.85	25.08	23.91	22.42	20.87
45.0	24.30	24.41	24.63	25.08	25.30	25.19	24.74	23.75	22.25
90.0	24.52	24.69	24.91	25.02	24.85	24.30	23.08	21.64	20.20
135.0	24.85	24.91	25.13	25.35	25.35	25.13	24.41	23.14	21.59
180.0	24.96	24.74	24.80	25.08	25.24	25.19	25.02	24.19	23.14
225.0	25.02	25.13	25.46	25.74	25.85	25.68	25.08	23.64	22.09
270.0	25.13	25.08	25.19	25.57	25.85	25.91	25.63	24.80	23.80
315.0	25.68	25.68	25.79	26.07	26.07	25.91	25.13	24.19	22.86
360.0	25.41	25.57	25.91	26.18	25.85	25.08	23.91	22.42	20.87

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.93	17.77	16.83	16.11	15.39	14.89	14.45	13.89	13.51
45.0	20.43	18.88	17.71	16.66	15.83	15.22	14.72	14.17	13.78
90.0	18.43	17.38	16.27	15.61	15.06	14.56	14.00	13.62	13.28
135.0	19.98	18.27	17.21	16.16	15.55	15.00	14.50	14.00	13.67
180.0	21.15	19.60	18.21	17.10	16.33	15.55	14.95	14.50	14.12
225.0	20.43	18.54	17.44	16.61	15.89	15.17	14.72	14.28	13.84
270.0	22.31	20.76	19.21	17.71	16.77	15.94	15.39	14.83	14.28
315.0	21.26	19.21	18.10	17.10	16.38	15.61	15.11	14.50	14.12
360.0	18.93	17.77	16.83	16.11	15.39	14.89	14.45	13.89	13.51

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.12	12.84	12.51	12.18	11.96	11.73	11.51	11.18	10.90
45.0	13.45	13.01	12.68	12.40	12.18	11.85	11.68	11.40	11.18
90.0	12.95	12.62	12.34	12.07	11.85	11.57	11.29	11.02	10.74
135.0	13.28	13.01	12.68	12.40	12.18	11.85	11.68	11.40	11.07
180.0	13.62	13.28	13.01	12.62	12.29	12.07	11.73	11.51	11.18
225.0	13.40	13.06	12.68	12.34	12.07	11.79	11.51	11.24	10.96
270.0	13.89	13.51	13.12	12.79	12.45	12.18	11.85	11.62	11.35
315.0	13.73	13.28	12.95	12.62	12.34	11.96	11.73	11.46	11.18
360.0	13.12	12.84	12.51	12.18	11.96	11.73	11.51	11.18	10.90

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.68	10.35	10.13	9.91	9.74	9.52	9.35	9.19	8.91
45.0	10.85	10.57	10.30	10.02	9.80	9.63	9.41	9.24	8.97
90.0	10.52	10.24	10.02	9.80	9.58	9.35	9.19	8.97	8.80
135.0	10.79	10.52	10.24	10.02	9.74	9.52	9.30	9.08	8.91
180.0	10.96	10.74	10.41	10.19	9.91	9.69	9.52	9.35	9.19
225.0	10.74	10.41	10.19	9.96	9.80	9.58	9.41	9.24	8.91
270.0	11.13	10.79	10.46	10.19	9.91	9.69	9.58	9.35	9.24
315.0	10.85	10.57	10.30	10.02	9.85	9.63	9.41	9.24	9.19
360.0	10.68	10.35	10.13	9.91	9.74	9.52	9.35	9.19	8.91

Intensity data(cd)

C/γ(°)	90.0
0.0	8.97
45.0	8.86
90.0	8.80
135.0	8.80
180.0	8.86
225.0	8.97
270.0	8.91
315.0	8.91
360.0	8.97