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NATA

Client:
LumCAT: 1-1278-L
Luminaire: 92.70.410.00
Report No: 2023626-B008
Ballast type: AC

Test No: 2023626-C008	Voltage(V): 35.510
LampCAT: FORTIMO SLM C 1203	Current(A): 0.282
Lamp flux(lm): 1100.8	Power (W): 10.013
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1011.81, Efficiency(%): 91.92% , Luminous Efficacy(lm/W): 101.05
Central intensity(cd): 3644.149, Maximum intensity(cd): 3644.149
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.8
[C90/270]Total=25.8
Field angle(10%Imax): [C0/180]Total=54.6
[C90/270]Total=54.6
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
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(%): 91.92%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.067%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3644.149	0.000	0	0.00%	0.00%
1.0	3626.713	3.479	3.479	0.32%	0.34%
2.0	3575.926	10.338	13.817	0.94%	1.37%
3.0	3500.576	16.925	30.742	1.54%	3.04%
4.0	3389.730	23.064	53.806	2.10%	5.32%
5.0	3264.631	28.627	82.432	2.60%	8.15%
6.0	3108.326	33.492	115.924	3.04%	11.46%
7.0	2949.323	37.600	153.524	3.42%	15.17%
8.0	2760.152	40.862	194.385	3.71%	19.21%
9.0	2568.006	43.182	237.567	3.92%	23.48%
10.0	2380.980	44.787	282.354	4.07%	27.91%
11.0	2191.878	45.692	328.046	4.15%	32.42%
12.0	1987.554	45.687	373.733	4.15%	36.94%
13.0	1794.093	44.879	418.612	4.08%	41.37%
14.0	1591.042	43.329	461.941	3.94%	45.65%
15.0	1445.532	41.687	503.628	3.79%	49.77%
16.0	1246.868	39.451	543.08	3.58%	53.67%
17.0	1115.728	36.792	579.872	3.34%	57.31%
18.0	1018.402	35.187	615.059	3.20%	60.79%
19.0	922.765	33.772	648.831	3.07%	64.13%
20.0	833.258	32.140	680.971	2.92%	67.30%
21.0	749.419	30.391	711.362	2.76%	70.31%
22.0	679.908	28.723	740.085	2.61%	73.14%
23.0	613.442	27.138	767.223	2.47%	75.83%
24.0	557.957	25.611	792.834	2.33%	78.36%
25.0	495.878	23.962	816.796	2.18%	80.73%
26.0	433.640	21.941	838.737	1.99%	82.89%
27.0	379.850	19.902	858.639	1.81%	84.86%
28.0	328.385	17.931	876.57	1.63%	86.63%
29.0	277.785	15.859	892.429	1.44%	88.20%
30.0	236.498	13.886	906.315	1.26%	89.57%
31.0	180.819	11.613	917.928	1.06%	90.72%
32.0	148.908	9.446	927.375	0.86%	91.65%
33.0	107.905	7.566	934.94	0.69%	92.40%
34.0	84.746	5.830	940.771	0.53%	92.98%
35.0	67.691	4.734	945.505	0.43%	93.45%
36.0	58.225	4.009	949.514	0.36%	93.84%
37.0	50.939	3.560	953.074	0.32%	94.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	45.978	3.235	956.309	0.29%	94.51%
39.0	41.391	2.982	959.291	0.27%	94.81%
40.0	37.744	2.760	962.051	0.25%	95.08%
41.0	34.471	2.572	964.623	0.23%	95.34%
42.0	31.455	2.395	967.018	0.22%	95.57%
43.0	28.735	2.230	969.248	0.20%	95.79%
44.0	26.411	2.081	971.329	0.19%	96.00%
45.0	24.300	1.949	973.278	0.18%	96.19%
46.0	22.384	1.826	975.104	0.17%	96.37%
47.0	20.543	1.707	976.811	0.16%	96.54%
48.0	19.049	1.601	978.411	0.15%	96.70%
49.0	17.596	1.505	979.916	0.14%	96.85%
50.0	16.309	1.414	981.33	0.13%	96.99%
51.0	15.118	1.330	982.659	0.12%	97.12%
52.0	14.164	1.257	983.916	0.11%	97.24%
53.0	13.319	1.196	985.112	0.11%	97.36%
54.0	12.517	1.139	986.25	0.10%	97.47%
55.0	11.853	1.088	987.338	0.10%	97.58%
56.0	11.278	1.045	988.383	0.09%	97.68%
57.0	10.829	1.011	989.394	0.09%	97.78%
58.0	10.372	0.980	990.374	0.09%	97.88%
59.0	9.984	0.952	991.326	0.09%	97.98%
60.0	9.666	0.928	992.254	0.08%	98.07%
61.0	9.382	0.909	993.164	0.08%	98.16%
62.0	9.064	0.889	994.052	0.08%	98.24%
63.0	8.774	0.868	994.92	0.08%	98.33%
64.0	8.504	0.848	995.768	0.08%	98.41%
65.0	8.206	0.827	996.595	0.08%	98.50%
66.0	7.964	0.807	997.401	0.07%	98.58%
67.0	7.687	0.787	998.188	0.07%	98.65%
68.0	7.417	0.765	998.954	0.07%	98.73%
69.0	7.182	0.745	999.698	0.07%	98.80%
70.0	6.961	0.726	1000.425	0.07%	98.87%
71.0	6.739	0.708	1001.133	0.06%	98.94%
72.0	6.504	0.689	1001.821	0.06%	99.01%
73.0	6.317	0.670	1002.492	0.06%	99.08%
74.0	6.123	0.654	1003.146	0.06%	99.14%
75.0	5.930	0.637	1003.783	0.06%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.757	0.620	1004.403	0.06%	99.27%
77.0	5.584	0.605	1005.008	0.05%	99.33%
78.0	5.445	0.590	1005.598	0.05%	99.39%
79.0	5.279	0.576	1006.174	0.05%	99.44%
80.0	5.155	0.563	1006.737	0.05%	99.50%
81.0	5.023	0.550	1007.287	0.05%	99.55%
82.0	4.933	0.540	1007.827	0.05%	99.61%
83.0	4.809	0.530	1008.357	0.05%	99.66%
84.0	4.726	0.519	1008.876	0.05%	99.71%
85.0	4.622	0.510	1009.387	0.05%	99.76%
86.0	4.532	0.500	1009.887	0.05%	99.81%
87.0	4.463	0.492	1010.379	0.04%	99.86%
88.0	4.387	0.485	1010.864	0.04%	99.91%
89.0	4.318	0.477	1011.341	0.04%	99.95%
90.0	4.311	0.473	1011.814	0.04%	100.00%

Zonal flux distribution table

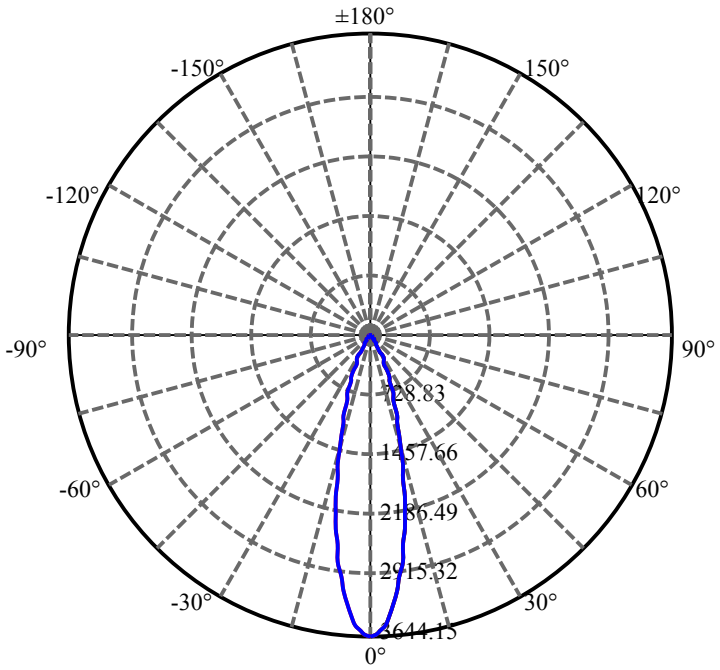
ZONAL LUMEN SUMMARY

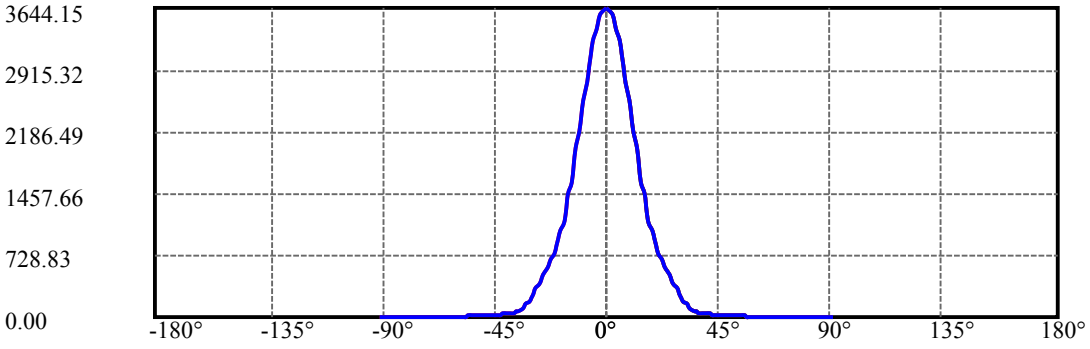
Zone	Lumens	%Lamp	%Fixt
0-30	906.31	82.33%	89.57%
0-40	962.05	87.40%	95.08%
0-60	992.25	90.14%	98.07%
0-90	1011.34	91.87%	99.95%
0-120	1011.34	91.87%	99.95%
0-180	1011.81	91.92%	100.00%
60-90	19.09	1.73%	1.89%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.69	809.45	73.53%	80.00%

ZONAL LUMEN SUMMARY

0-10	282.35
10-20	398.62
20-30	225.34
30-40	55.74
40-50	19.28
50-60	10.92
60-70	8.17
70-80	6.31
80-90	4.60
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):

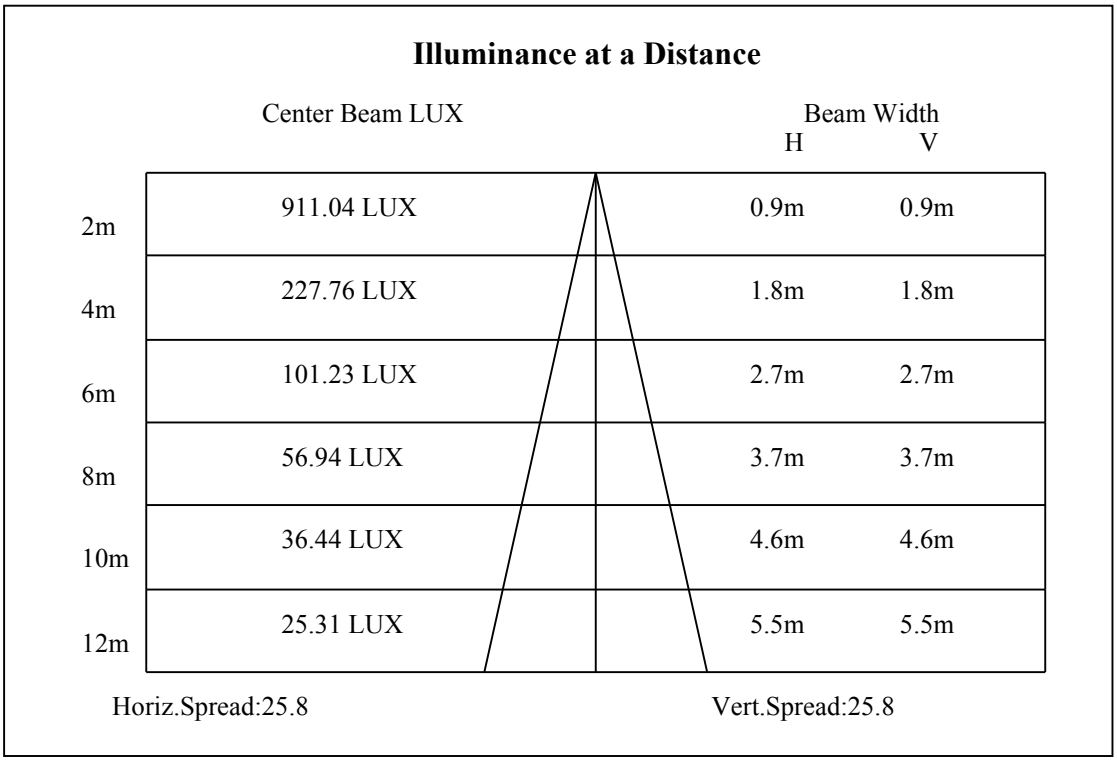
C0/C180:

C90/C270:

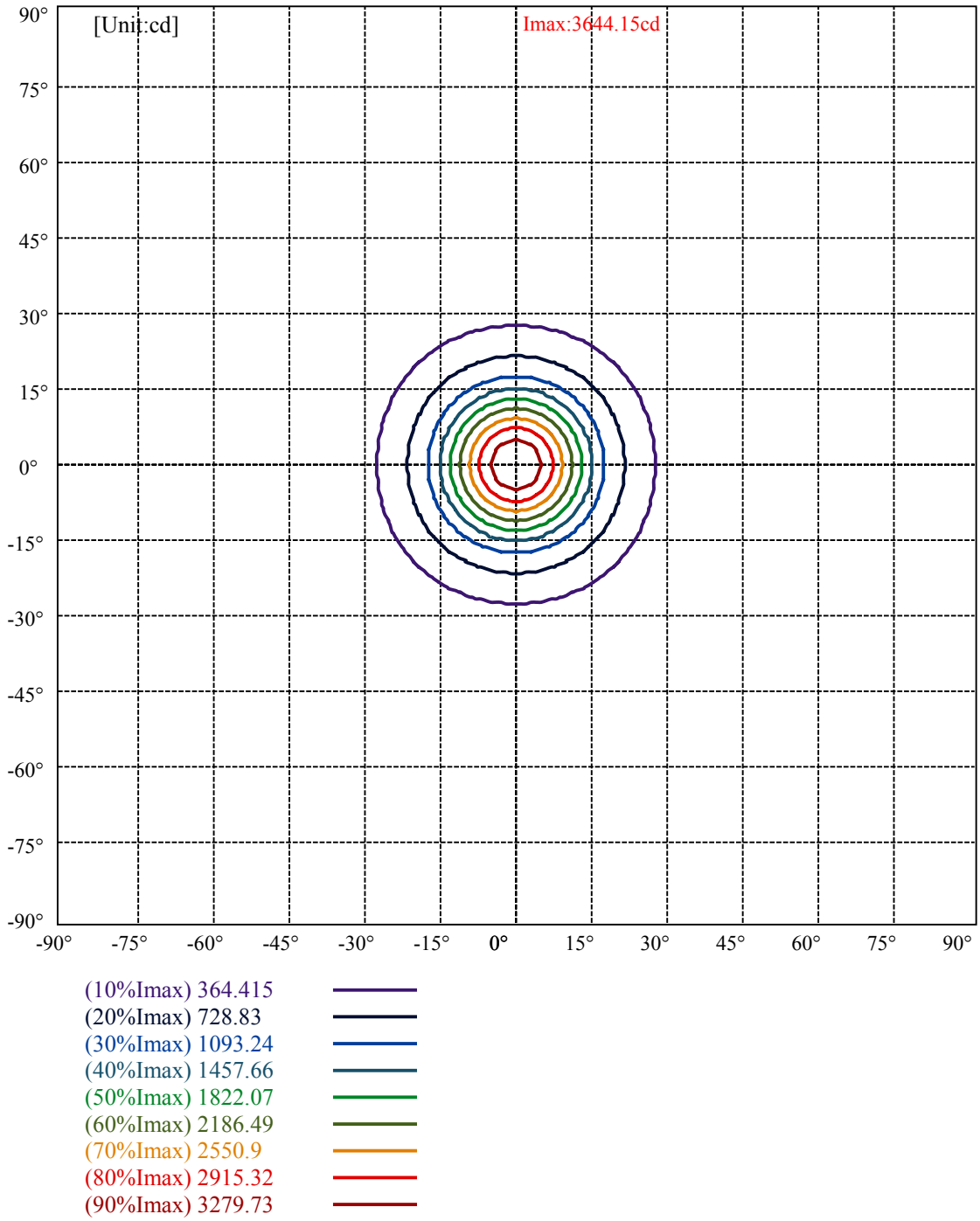
Field angle(10%Imax):C0/180Left:27.3 Right:27.3
:C90/270Left:27.3 Right:27.3

Beam Angle(50%Imax):C0/180Left:12.9 Right:12.9
:C90/270Left:12.9 Right:12.9

Lux distance Curve



ISO-Intensity(V-H)

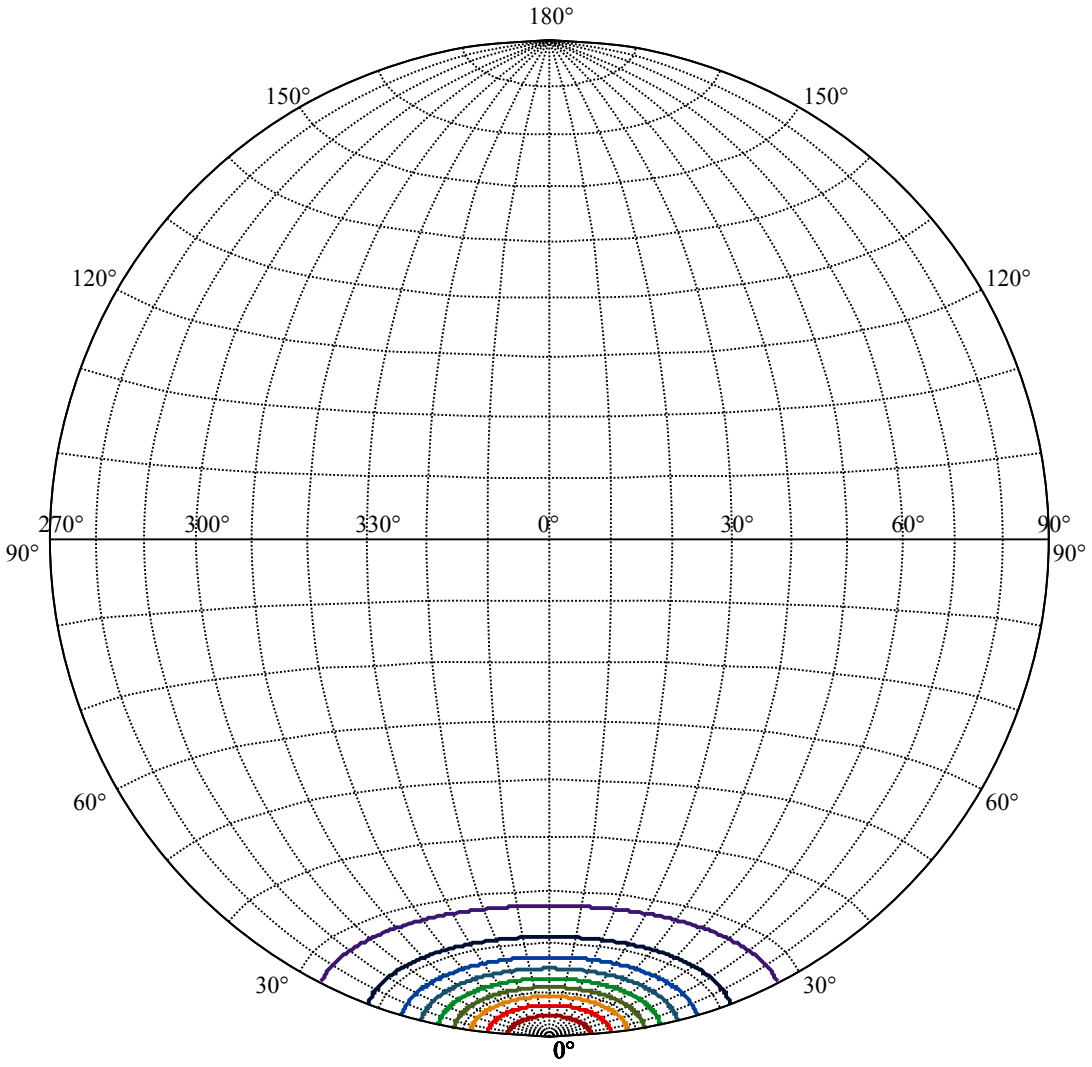


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



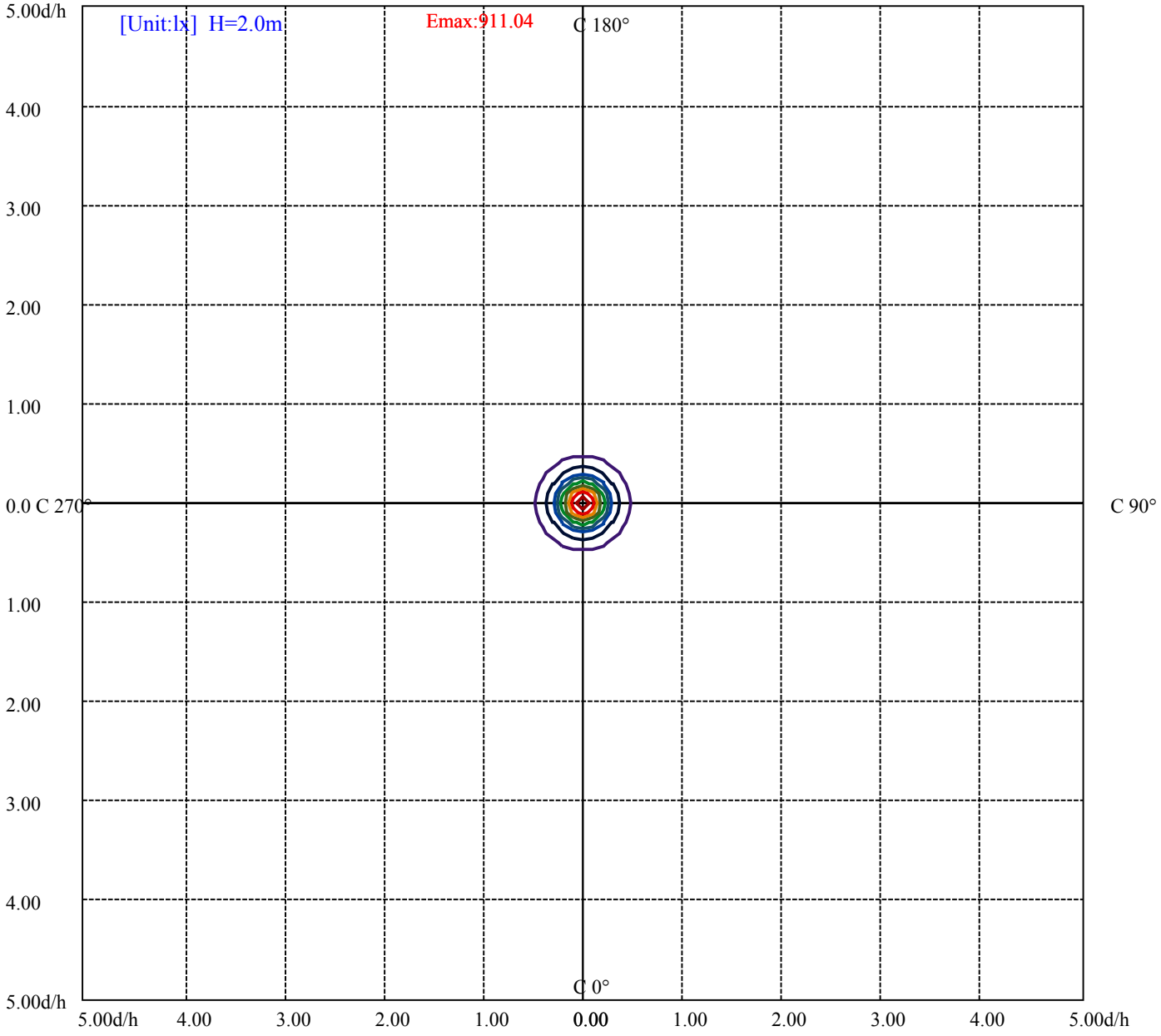
House [Unit:cd] Road

Imax:3644.15

(10%Imax) 364.415
(20%Imax) 728.83
(30%Imax) 1093.24
(40%Imax) 1457.66
(50%Imax) 1822.07
(60%Imax) 2186.49
(70%Imax) 2550.9
(80%Imax) 2915.32
(90%Imax) 3279.73

Equipment: GMS1980 Date: 2023/6/26 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

ISO illuminance diagram

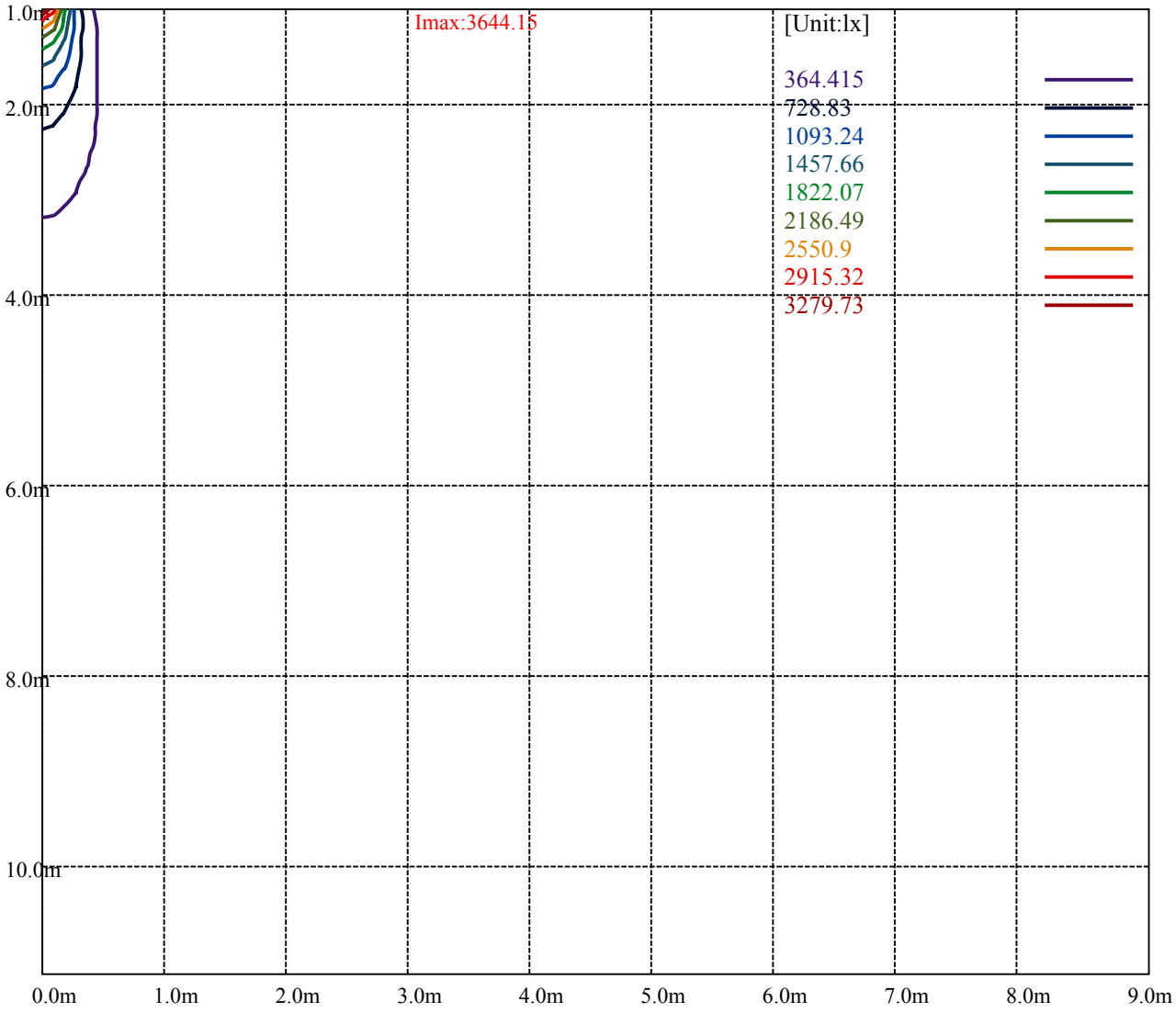


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

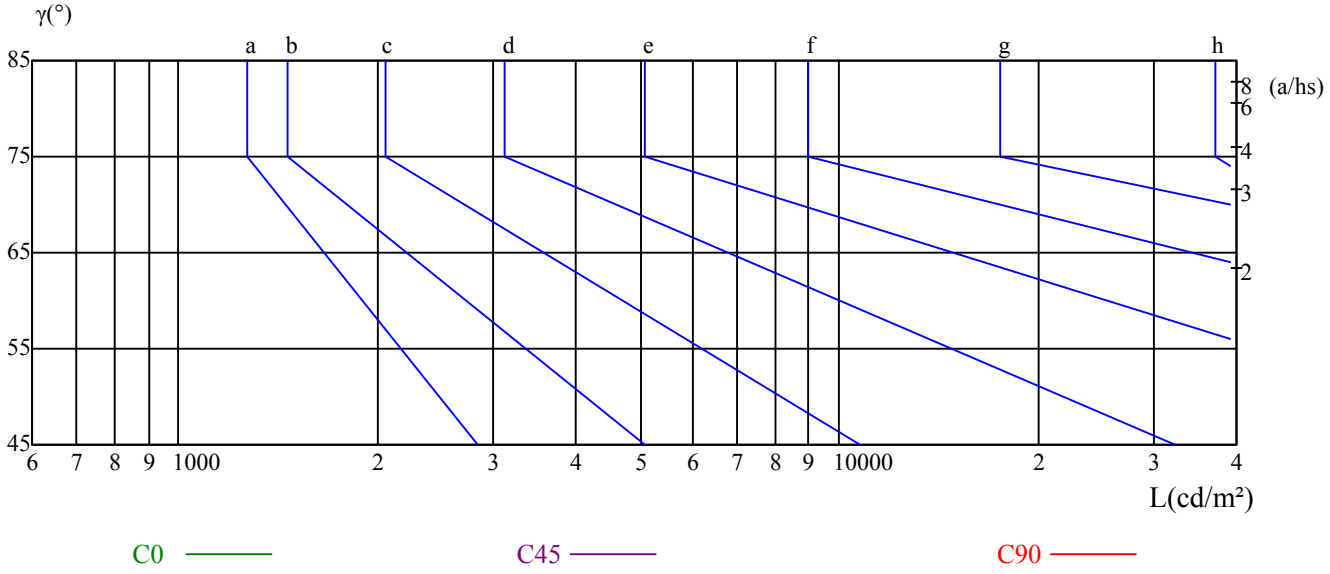
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

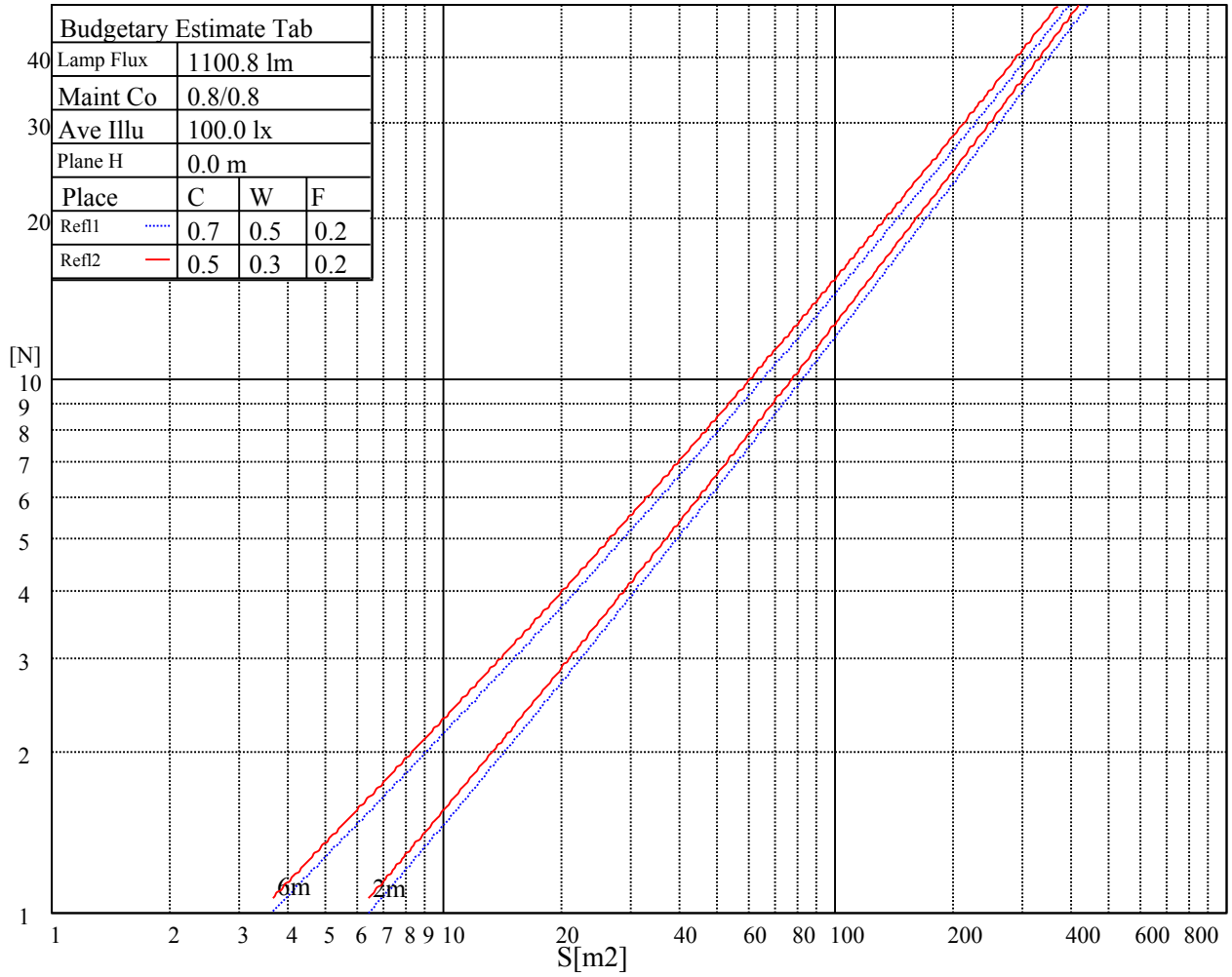


UGR Glare

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

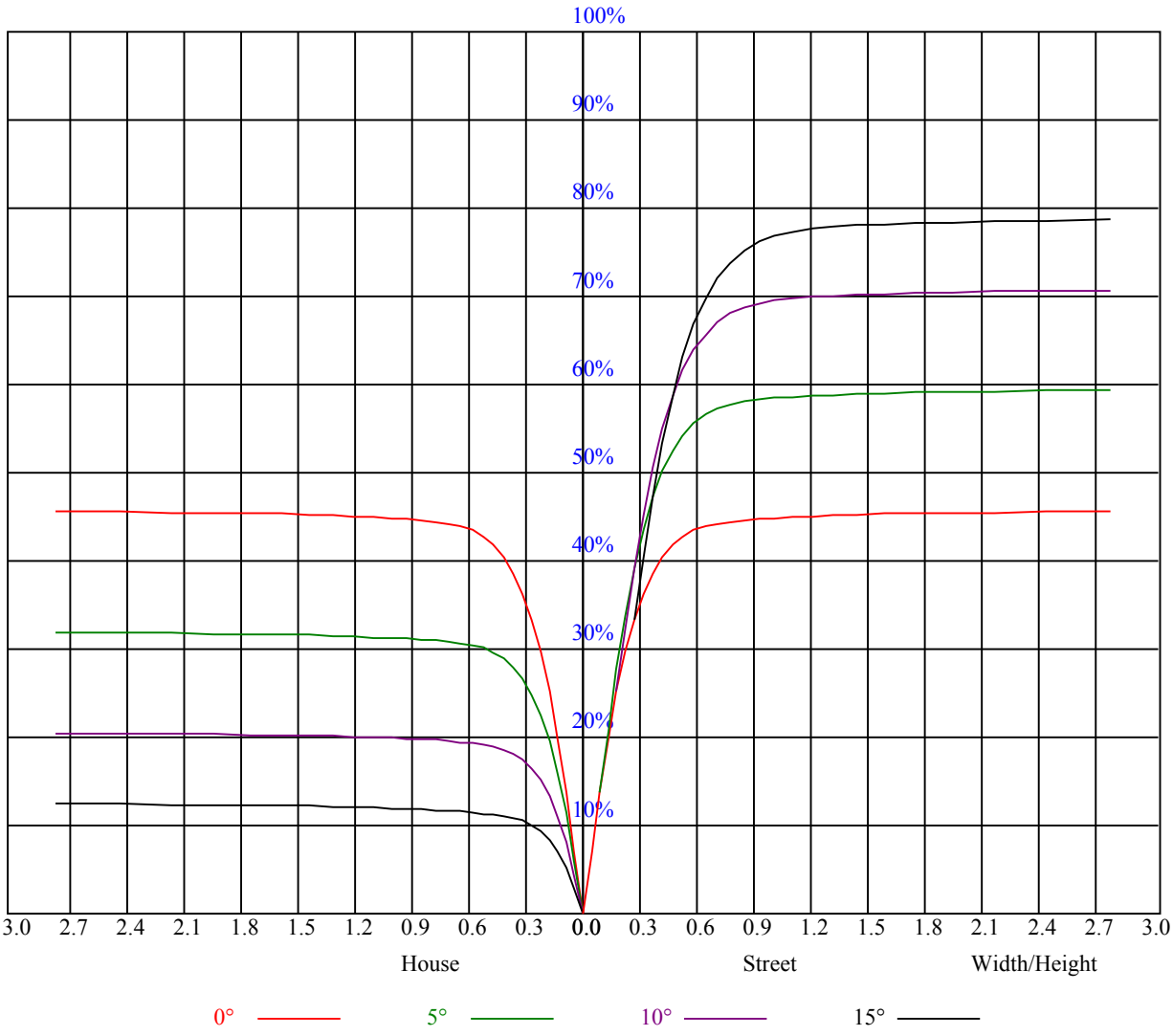


Equipment: GMS1980 Date: 2023/6/26 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/6/26	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	3675.98	3643.32	3591.84	3517.11	3387.58	3263.04	3123.55	2971.88	2759.32
45.0	3648.85	3636.12	3599.04	3532.61	3418.03	3297.36	3155.65	3011.18	2800.84
90.0	3600.70	3531.50	3416.92	3294.04	3152.89	3001.77	2789.77	2614.85	2384.58
135.0	3651.07	3597.38	3496.08	3383.16	3209.90	3058.78	2891.06	2720.02	2494.73
180.0	3675.98	3662.69	3611.21	3533.16	3427.99	3269.68	3120.23	2954.72	2784.23
225.0	3648.85	3635.57	3578.00	3484.45	3374.30	3245.33	3052.14	2888.85	2717.81
270.0	3600.70	3636.68	3657.71	3643.87	3594.61	3521.54	3420.80	3256.40	3115.25
315.0	3651.07	3670.44	3656.60	3616.20	3552.54	3459.54	3313.41	3176.69	3024.47
360.0	3675.98	3643.32	3591.84	3517.11	3387.58	3263.04	3123.55	2971.88	2759.32

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2581.64	2396.76	2212.98	1980.50	1803.92	1634.54	1435.26	1097.66	1097.66
45.0	2629.24	2446.57	2266.12	2038.06	1855.40	1638.96	1474.56	1324.56	1154.07
90.0	2201.36	2012.60	1782.33	1616.27	1451.32	1077.90	1077.90	1022.21	922.19
135.0	2310.40	2133.83	1946.18	1724.21	1557.04	1401.50	1262.56	1104.25	992.43
180.0	2565.58	2376.27	2189.73	2003.19	1778.46	1604.65	1445.78	1269.76	1143.00
225.0	2488.64	2303.76	2119.43	1935.66	1717.57	1552.61	1399.28	1099.99	1099.99
270.0	2913.20	2744.93	2563.92	2333.10	2146.56	1958.91	1779.56	1569.77	1413.68
315.0	2853.98	2633.12	2454.32	2269.44	2042.49	1859.27	1689.34	1486.74	1102.81
360.0	2581.64	2396.76	2212.98	1980.50	1803.92	1634.54	1435.26	1097.66	1097.66

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1015.07	916.66	829.64	736.26	672.71	617.69	564.83	497.19	443.77
45.0	1041.15	940.40	852.39	757.74	692.97	635.40	579.50	511.41	454.95
90.0	816.41	743.45	679.85	622.56	566.99	497.63	443.33	377.29	325.76
135.0	876.75	797.04	725.08	648.69	590.57	534.11	477.65	407.35	352.55
180.0	1031.18	902.76	821.95	748.33	671.94	611.05	558.46	499.23	426.17
225.0	991.33	893.63	808.11	720.43	660.20	588.52	531.17	474.32	404.63
270.0	1272.52	1141.89	1004.06	907.19	824.16	728.40	670.28	613.82	541.86
315.0	1102.81	1046.29	945.00	854.16	759.73	694.74	638.45	586.42	519.44
360.0	1015.07	916.66	829.64	736.26	672.71	617.69	564.83	497.19	443.77

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	388.69	336.00	272.84	226.23	183.39	137.28	106.06	81.87	63.32
45.0	400.15	335.39	287.23	287.23	185.99	148.18	116.63	84.69	67.31
90.0	278.43	222.24	181.39	144.64	106.72	82.86	67.20	58.23	51.31
135.0	298.85	286.12	225.90	151.89	119.90	88.23	72.02	62.77	55.63
180.0	371.37	318.78	281.14	281.14	164.23	127.53	94.27	75.17	60.94
225.0	351.88	301.51	254.07	197.22	157.43	122.72	94.71	71.63	61.94
270.0	483.74	415.65	363.06	313.25	287.23	287.23	163.96	127.70	96.65
315.0	465.69	411.39	356.64	290.38	241.67	197.22	148.40	115.91	84.41
360.0	388.69	336.00	272.84	226.23	183.39	137.28	106.06	81.87	63.32

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	55.13	49.49	43.56	39.80	36.42	33.38	30.00	27.68	25.63
45.0	56.79	49.10	44.06	39.91	36.42	32.60	29.89	27.51	24.96
90.0	46.55	42.57	39.02	34.98	32.16	29.67	26.90	24.85	22.58
135.0	50.21	44.89	41.18	37.81	34.65	31.33	28.84	26.68	24.63
180.0	55.63	50.70	46.28	41.52	38.14	35.09	32.33	29.28	27.07
225.0	55.80	49.26	45.00	40.68	37.47	34.43	31.83	28.78	26.63
270.0	77.22	62.49	55.74	50.21	44.73	40.91	36.75	33.77	30.94
315.0	68.47	59.01	52.97	46.22	41.96	38.36	35.09	31.33	28.84
360.0	55.13	49.49	43.56	39.80	36.42	33.38	30.00	27.68	25.63

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	23.69	21.53	19.98	18.27	17.05	15.89	14.67	13.78	13.01
45.0	23.14	21.42	19.43	18.10	16.83	15.39	14.45	13.56	12.79
90.0	20.87	19.37	17.71	16.50	15.44	14.50	13.45	12.79	12.12
135.0	22.42	20.70	19.21	17.82	16.27	15.22	14.00	13.23	12.51
180.0	25.08	23.19	21.09	19.60	17.88	16.66	15.33	14.34	13.51
225.0	24.58	22.81	20.70	19.21	17.88	16.66	15.33	14.39	13.40
270.0	28.06	25.96	23.91	22.25	20.59	18.65	17.38	16.22	15.17
315.0	26.57	24.08	22.31	20.65	18.82	17.49	16.33	15.00	14.06
360.0	23.69	21.53	19.98	18.27	17.05	15.89	14.67	13.78	13.01

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.18	11.62	11.07	10.68	10.19	9.91	9.63	9.35	9.02
45.0	11.96	11.35	10.90	10.52	10.02	9.69	9.41	9.13	8.86
90.0	11.57	10.96	10.57	10.19	9.80	9.52	9.19	8.91	8.64
135.0	11.73	11.24	10.74	10.35	9.85	9.58	9.30	8.97	8.58
180.0	12.79	12.01	11.46	11.02	10.57	10.07	9.80	9.52	9.19
225.0	12.68	12.07	11.40	10.96	10.57	10.13	9.80	9.58	9.24
270.0	14.00	13.23	12.34	11.73	11.24	10.68	10.30	9.96	9.63
315.0	13.23	12.34	11.73	11.18	10.74	10.30	9.91	9.63	9.35
360.0	12.18	11.62	11.07	10.68	10.19	9.91	9.63	9.35	9.02

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.75	8.52	8.25	8.03	7.69	7.47	7.25	7.03	6.75
45.0	8.58	8.30	8.08	7.86	7.58	7.31	7.09	6.92	6.70
90.0	8.41	8.08	7.80	7.58	7.31	7.03	6.86	6.64	6.48
135.0	8.36	8.14	7.75	7.58	7.31	7.03	6.81	6.59	6.37
180.0	8.80	8.52	8.19	7.97	7.69	7.42	7.14	6.92	6.75
225.0	8.91	8.64	8.36	8.03	7.75	7.53	7.20	6.97	6.75
270.0	9.35	9.08	8.80	8.47	8.19	7.92	7.69	7.42	7.14
315.0	9.02	8.75	8.41	8.19	7.97	7.64	7.42	7.20	6.97
360.0	8.75	8.52	8.25	8.03	7.69	7.47	7.25	7.03	6.75

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.59	6.37	6.20	5.98	5.81	5.65	5.54	5.31	5.20
45.0	6.48	6.31	6.14	5.92	5.76	5.54	5.42	5.31	5.15
90.0	6.20	6.03	5.81	5.65	5.54	5.37	5.26	5.09	4.98
135.0	6.20	5.98	5.81	5.65	5.48	5.31	5.20	5.04	4.93
180.0	6.53	6.31	6.14	5.92	5.76	5.59	5.42	5.26	5.15
225.0	6.53	6.37	6.14	5.98	5.76	5.59	5.42	5.31	5.20
270.0	6.81	6.64	6.42	6.20	6.03	5.87	5.70	5.48	5.37
315.0	6.70	6.53	6.31	6.14	5.92	5.76	5.59	5.42	5.26
360.0	6.59	6.37	6.20	5.98	5.81	5.65	5.54	5.31	5.20

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.04	4.98	4.87	4.76	4.65	4.59	4.54	4.43	4.37
45.0	5.04	4.93	4.82	4.76	4.65	4.54	4.48	4.43	4.32
90.0	4.87	4.82	4.65	4.59	4.54	4.43	4.32	4.26	4.26
135.0	4.82	4.76	4.59	4.54	4.43	4.37	4.32	4.21	4.21
180.0	5.04	4.93	4.82	4.71	4.59	4.54	4.43	4.43	4.32
225.0	5.04	4.93	4.82	4.71	4.65	4.54	4.48	4.43	4.32
270.0	5.20	5.09	4.98	4.93	4.76	4.65	4.59	4.48	4.37
315.0	5.15	5.04	4.93	4.82	4.71	4.59	4.54	4.43	4.37
360.0	5.04	4.98	4.87	4.76	4.65	4.59	4.54	4.43	4.37

Intensity data(cd)

C/γ(°)	90.0
0.0	4.32
45.0	4.32
90.0	4.26
135.0	4.21
180.0	4.32
225.0	4.37
270.0	4.37
315.0	4.32
360.0	4.32