NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

Client:
LumCAT: 2-2643-L
Luminaire: 92.70.412.00
Report No: 20231011-B004
Ballast type: AC

Test No: 20231011-C004	Voltage(V): 34.830
LampCAT: TRIDONIC SLE G7 15MM	Current(A): 0.530
Lamp flux(lm): 3047.8	Power (W): 18.459
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2886.35, Efficiency(%): 94.70% , Luminous Efficacy(lm/W): 156.37
Central intensity(cd): 14705.790, Maximum intensity(cd): 14705.790
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.4
[C90/270]Total=18.4
Field angle(10%Imax): [C0/180]Total=47.0
[C90/270]Total=47.0
Maximum s/h(1/2): C0_180=0.32 C90_270=0.32
Maximum s/h(1/4): C0_180=0.35 C90_270=0.35
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.70%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.044%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	14705.791	0.000	0	0.00%	0.00%
1.0	14576.402	14.011	14.011	0.46%	0.49%
2.0	14202.765	41.307	55.318	1.36%	1.92%
3.0	13426.562	66.080	121.398	2.17%	4.21%
4.0	12580.130	87.053	208.451	2.86%	7.22%
5.0	11640.765	104.197	312.648	3.42%	10.83%
6.0	10887.334	118.391	431.039	3.88%	14.93%
7.0	9762.202	128.171	559.21	4.21%	19.37%
8.0	8647.588	131.755	690.965	4.32%	23.94%
9.0	7610.470	131.763	822.728	4.32%	28.50%
10.0	6573.904	128.363	951.092	4.21%	32.95%
11.0	5723.604	122.877	1073.969	4.03%	37.21%
12.0	5008.712	117.320	1191.288	3.85%	41.27%
13.0	4409.371	111.769	1303.057	3.67%	45.15%
14.0	3935.682	106.816	1409.873	3.50%	48.85%
15.0	3534.300	102.551	1512.425	3.36%	52.40%
16.0	3164.953	98.163	1610.587	3.22%	55.80%
17.0	2883.065	94.184	1704.771	3.09%	59.06%
18.0	2647.535	91.188	1795.959	2.99%	62.22%
19.0	2439.122	88.497	1884.456	2.90%	65.29%
20.0	2180.745	84.556	1969.013	2.77%	68.22%
21.0	1913.380	78.615	2047.628	2.58%	70.94%
22.0	1728.084	73.177	2120.805	2.40%	73.48%
23.0	1550.883	68.802	2189.607	2.26%	75.86%
24.0	1378.194	64.040	2253.647	2.10%	78.08%
25.0	1259.945	59.986	2313.632	1.97%	80.16%
26.0	1145.861	56.789	2370.421	1.86%	82.13%
27.0	1047.124	53.652	2424.073	1.76%	83.98%
28.0	925.796	49.950	2474.024	1.64%	85.71%
29.0	806.820	45.330	2519.354	1.49%	87.29%
30.0	701.925	40.736	2560.089	1.34%	88.70%
31.0	582.804	35.752	2595.842	1.17%	89.94%
32.0	481.521	30.492	2626.333	1.00%	90.99%
33.0	383.351	25.479	2651.813	0.84%	91.87%
34.0	305.939	20.860	2672.673	0.68%	92.60%
35.0	249.998	17.265	2689.938	0.57%	93.20%
36.0	215.056	14.807	2704.745	0.49%	93.71%
37.0	172.869	12.652	2717.397	0.42%	94.15%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	140.820	10.471	2727.868	0.34%	94.51%
39.0	124.435	9.054	2736.922	0.30%	94.82%
40.0	111.365	8.224	2745.146	0.27%	95.11%
41.0	99.021	7.492	2752.637	0.25%	95.37%
42.0	89.029	6.832	2759.47	0.22%	95.60%
43.0	80.671	6.286	2765.756	0.21%	95.82%
44.0	73.004	5.800	2771.556	0.19%	96.02%
45.0	66.625	5.366	2776.922	0.18%	96.21%
46.0	60.847	4.985	2781.907	0.16%	96.38%
47.0	55.956	4.646	2786.553	0.15%	96.54%
48.0	51.866	4.359	2790.911	0.14%	96.69%
49.0	48.123	4.106	2795.018	0.13%	96.84%
50.0	44.857	3.877	2798.894	0.13%	96.97%
51.0	42.069	3.678	2802.572	0.12%	97.10%
52.0	39.446	3.498	2806.07	0.11%	97.22%
53.0	37.170	3.333	2809.403	0.11%	97.33%
54.0	35.302	3.194	2812.597	0.10%	97.44%
55.0	33.662	3.078	2815.675	0.10%	97.55%
56.0	32.292	2.980	2818.656	0.10%	97.65%
57.0	31.095	2.898	2821.554	0.10%	97.76%
58.0	30.119	2.831	2824.384	0.09%	97.85%
59.0	29.317	2.779	2827.163	0.09%	97.95%
60.0	28.569	2.735	2829.898	0.09%	98.04%
61.0	27.877	2.694	2832.592	0.09%	98.14%
62.0	27.296	2.659	2835.25	0.09%	98.23%
63.0	26.535	2.618	2837.868	0.09%	98.32%
64.0	25.622	2.559	2840.428	0.08%	98.41%
65.0	24.667	2.489	2842.916	0.08%	98.50%
66.0	23.712	2.414	2845.33	0.08%	98.58%
67.0	22.723	2.335	2847.665	0.08%	98.66%
68.0	21.782	2.254	2849.92	0.07%	98.74%
69.0	20.834	2.174	2852.094	0.07%	98.81%
70.0	19.962	2.095	2854.189	0.07%	98.89%
71.0	19.201	2.024	2856.213	0.07%	98.96%
72.0	18.530	1.962	2858.175	0.06%	99.02%
73.0	17.941	1.907	2860.082	0.06%	99.09%
74.0	17.416	1.859	2861.941	0.06%	99.15%
75.0	16.904	1.813	2863.754	0.06%	99.22%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.399	1.768	2865.522	0.06%	99.28%
77.0	15.914	1.723	2867.245	0.06%	99.34%
78.0	15.457	1.679	2868.924	0.06%	99.40%
79.0	15.035	1.638	2870.562	0.05%	99.45%
80.0	14.593	1.597	2872.16	0.05%	99.51%
81.0	14.198	1.557	2873.717	0.05%	99.56%
82.0	13.804	1.518	2875.235	0.05%	99.62%
83.0	13.430	1.480	2876.716	0.05%	99.67%
84.0	13.098	1.445	2878.161	0.05%	99.72%
85.0	12.856	1.417	2879.577	0.05%	99.77%
86.0	12.579	1.390	2880.968	0.05%	99.81%
87.0	12.378	1.366	2882.333	0.04%	99.86%
88.0	12.316	1.353	2883.686	0.04%	99.91%
89.0	12.074	1.337	2885.023	0.04%	99.95%
90.0	12.039	1.322	2886.345	0.04%	100.00%

Zonal flux distribution table

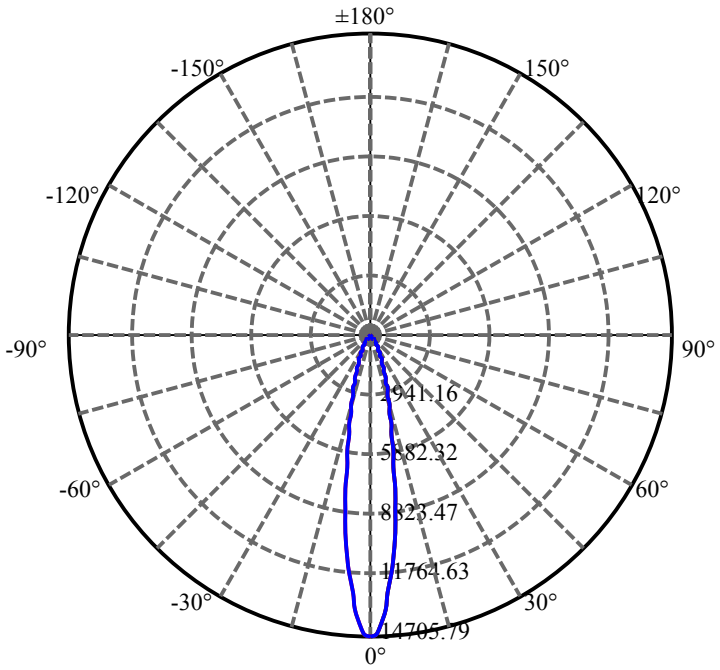
ZONAL LUMEN SUMMARY

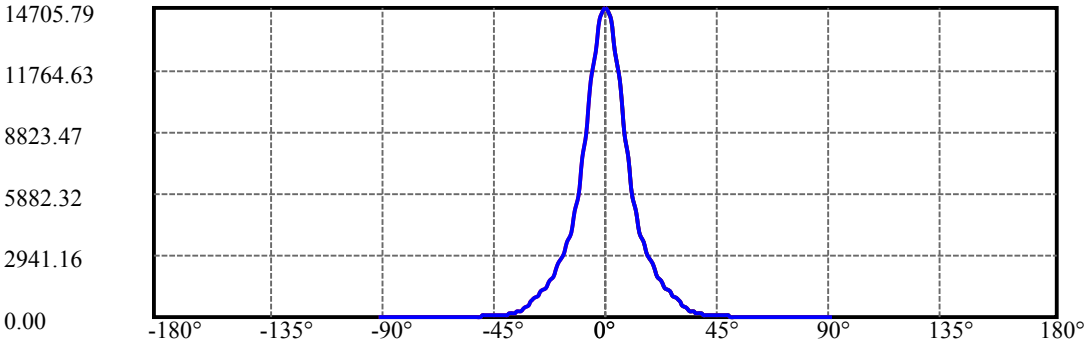
Zone	Lumens	%Lamp	%Fixt
0-30	2560.09	84.00%	88.70%
0-40	2745.15	90.07%	95.11%
0-60	2829.90	92.85%	98.04%
0-90	2885.02	94.66%	99.95%
0-120	2885.02	94.66%	99.95%
0-180	2886.35	94.70%	100.00%
60-90	55.13	1.81%	1.91%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.92	2309.08	75.76%	80.00%

ZONAL LUMEN SUMMARY

0-10	951.09
10-20	1017.92
20-30	591.08
30-40	185.06
40-50	53.75
50-60	31.00
60-70	24.29
70-80	17.97
80-90	12.86
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):

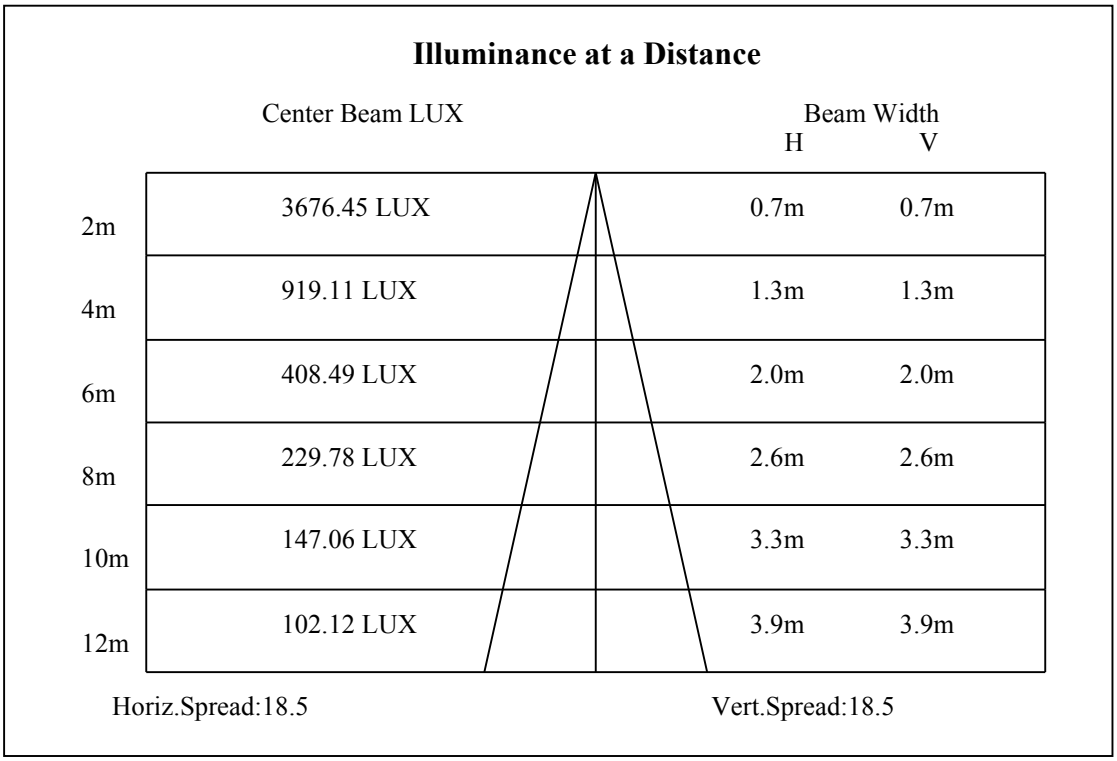
C0/C180:

C90/C270:

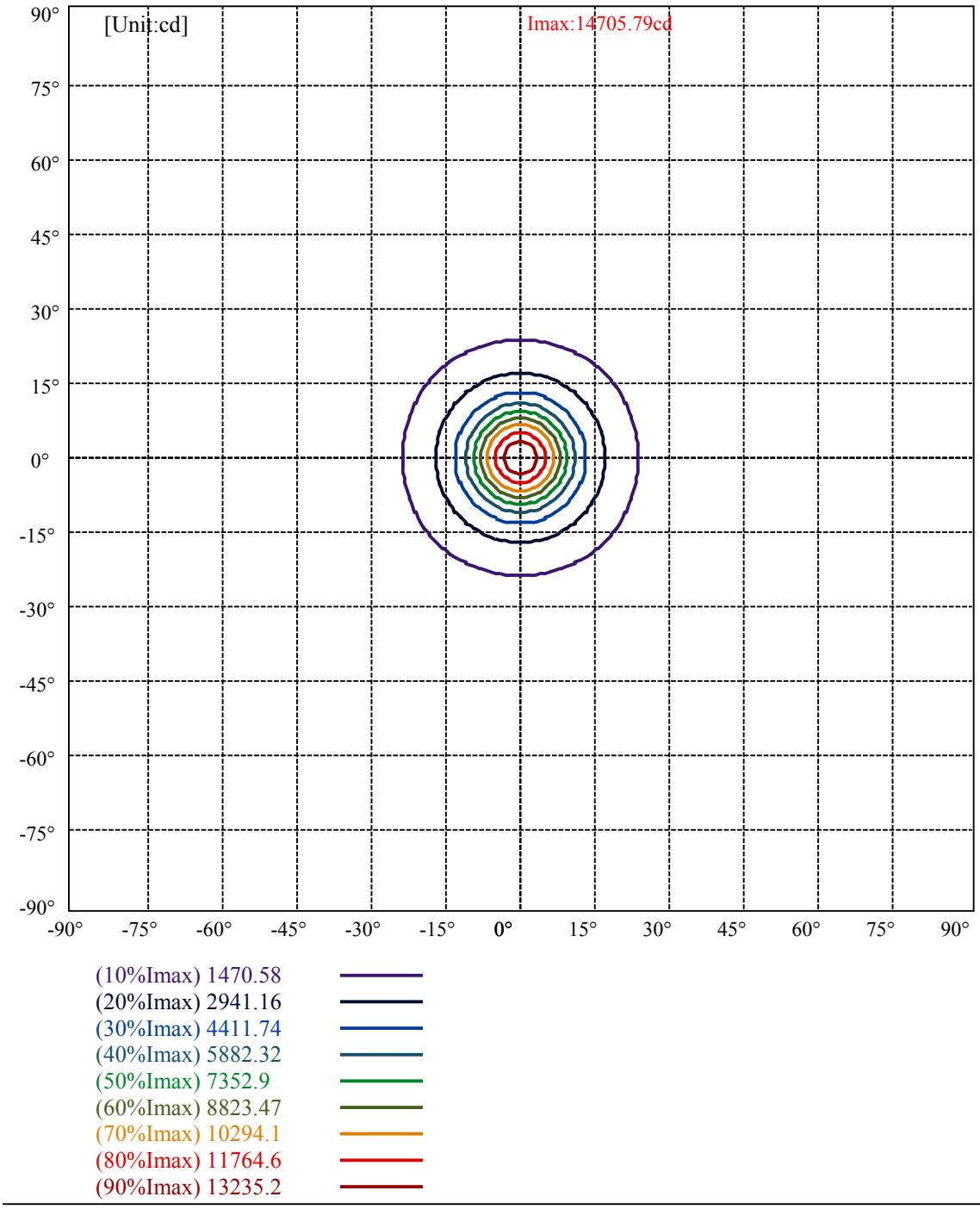
Field angle(10%Imax):C0/180Left:23.5 Right:23.5
:C90/270Left:23.5 Right:23.5

Beam Angle(50%Imax):C0/180Left:9.2 Right:9.2
:C90/270Left:9.2 Right:9.2

Lux distance Curve



ISO-Intensity(V-H)

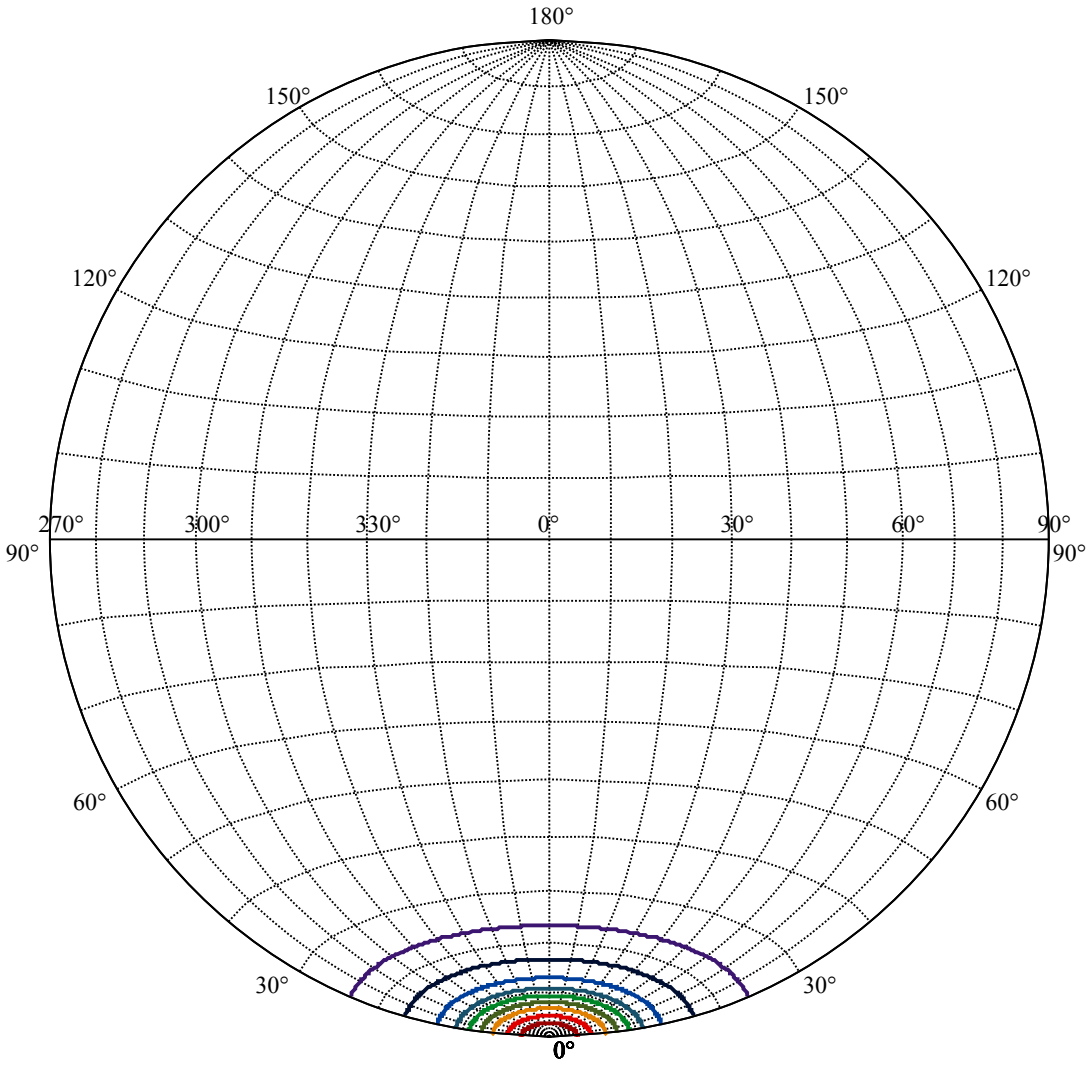


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web

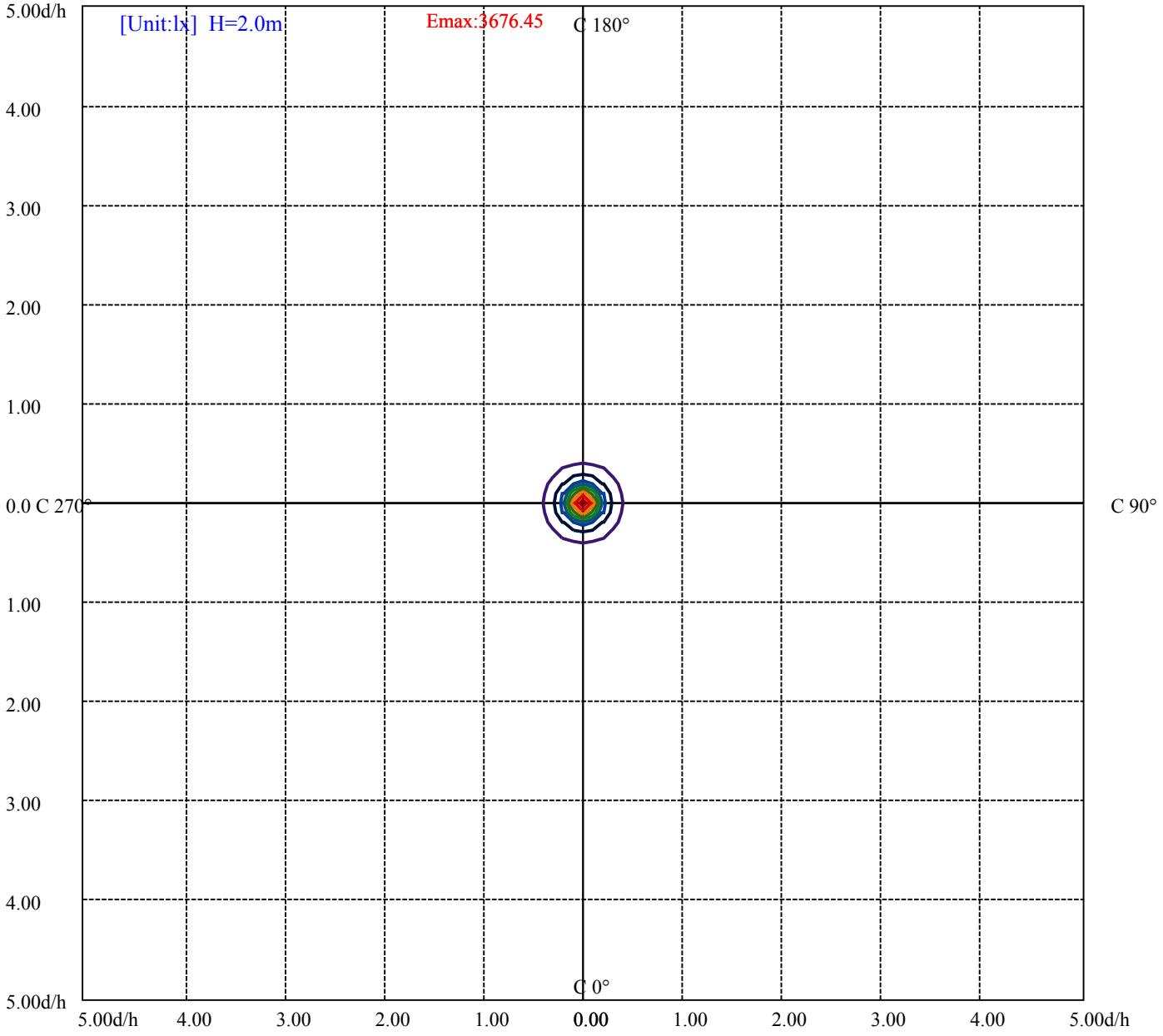


House [Unit:cd] Road

Imax:14705.79

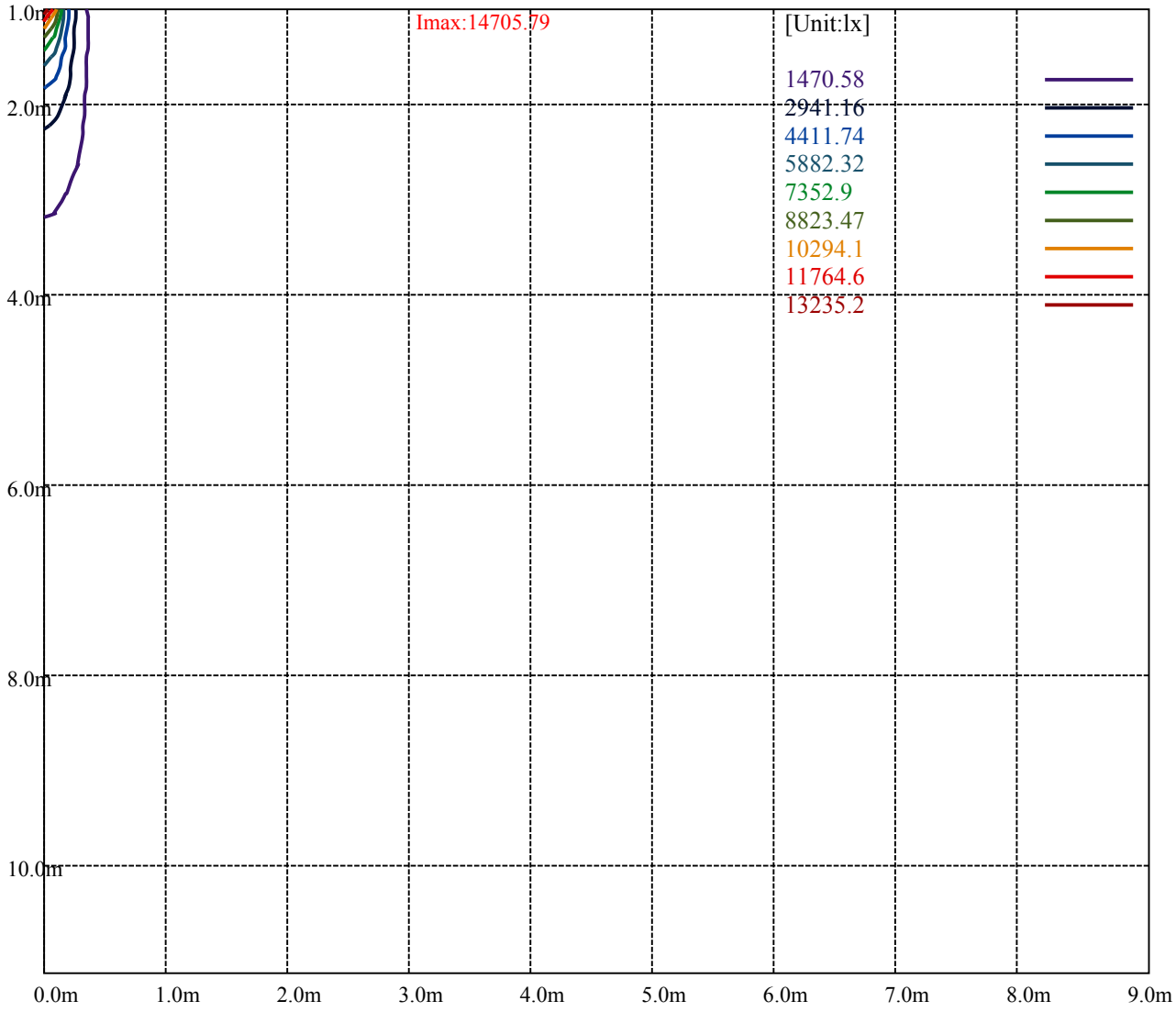
(10%Imax) 1470.58
(20%Imax) 2941.16
(30%Imax) 4411.74
(40%Imax) 5882.32
(50%Imax) 7352.9
(60%Imax) 8823.47
(70%Imax) 10294.1
(80%Imax) 11764.6
(90%Imax) 13235.2

ISO illuminance diagram



Equipment: GMS1980	Date: 2023/10/11	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

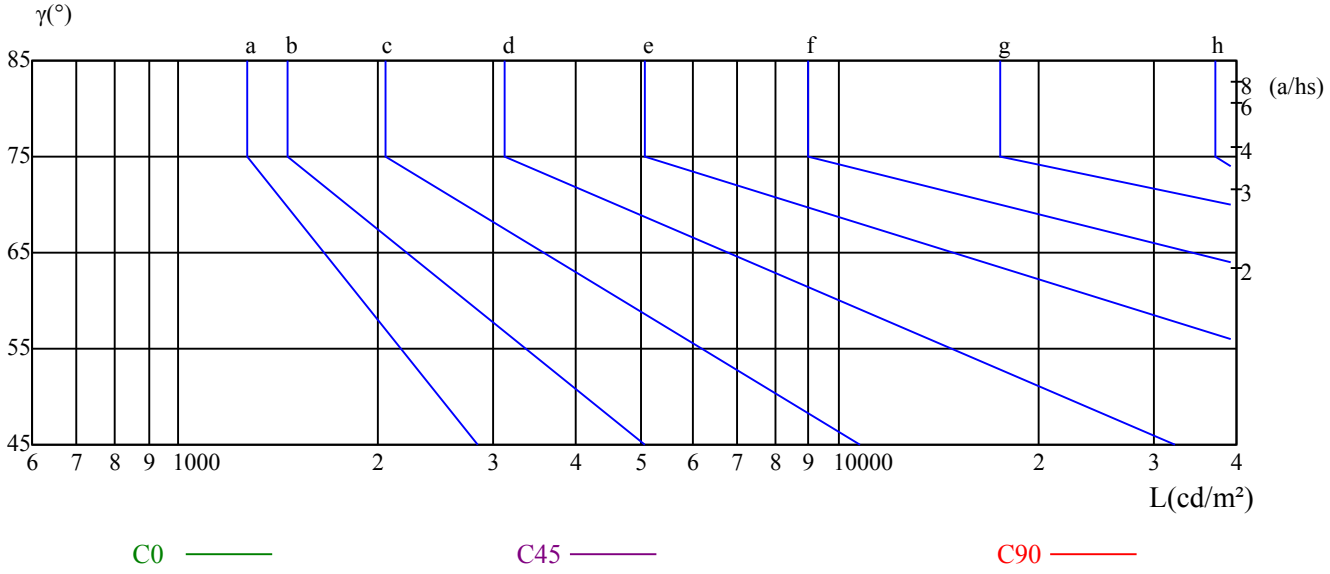
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

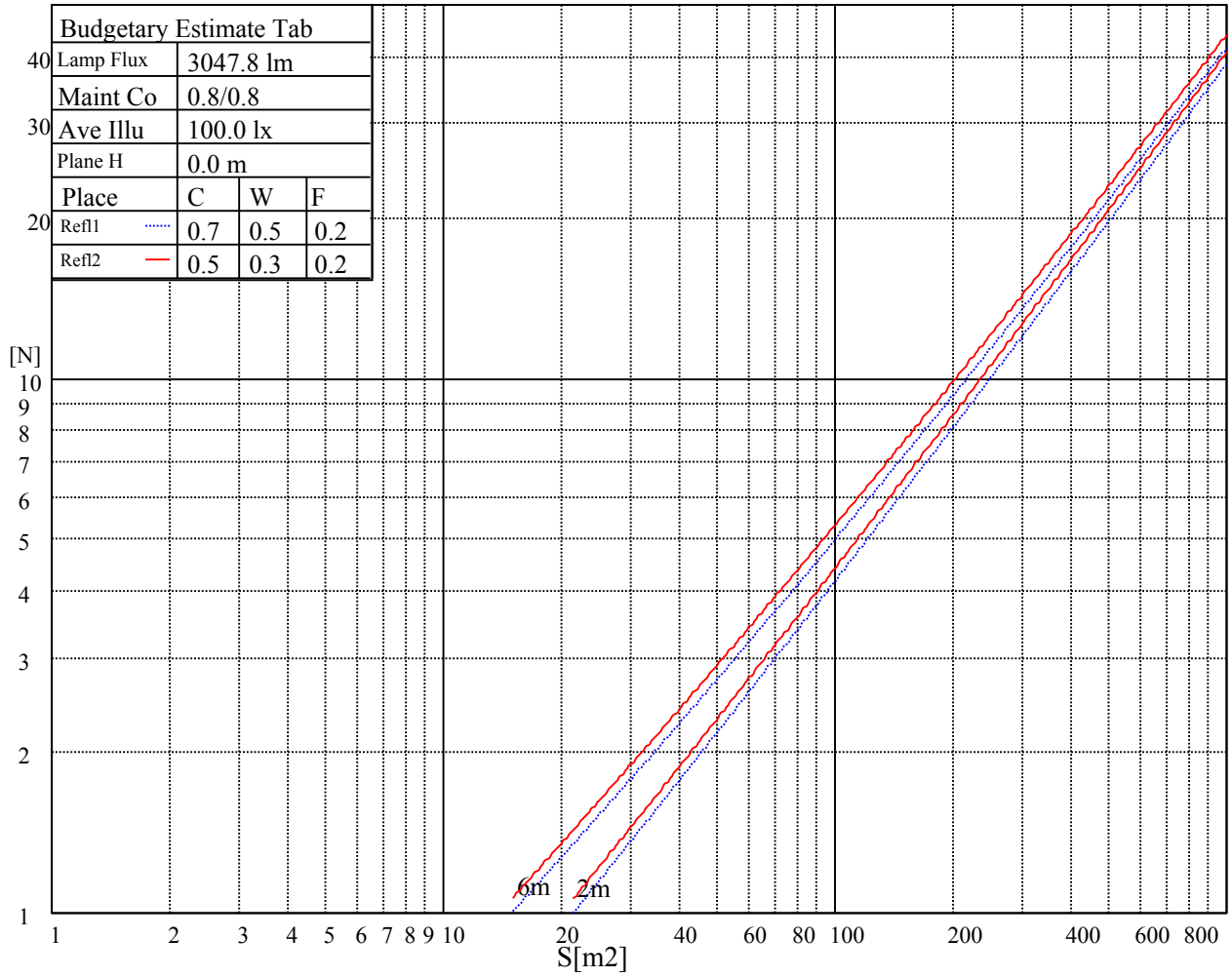


UGR Glare

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

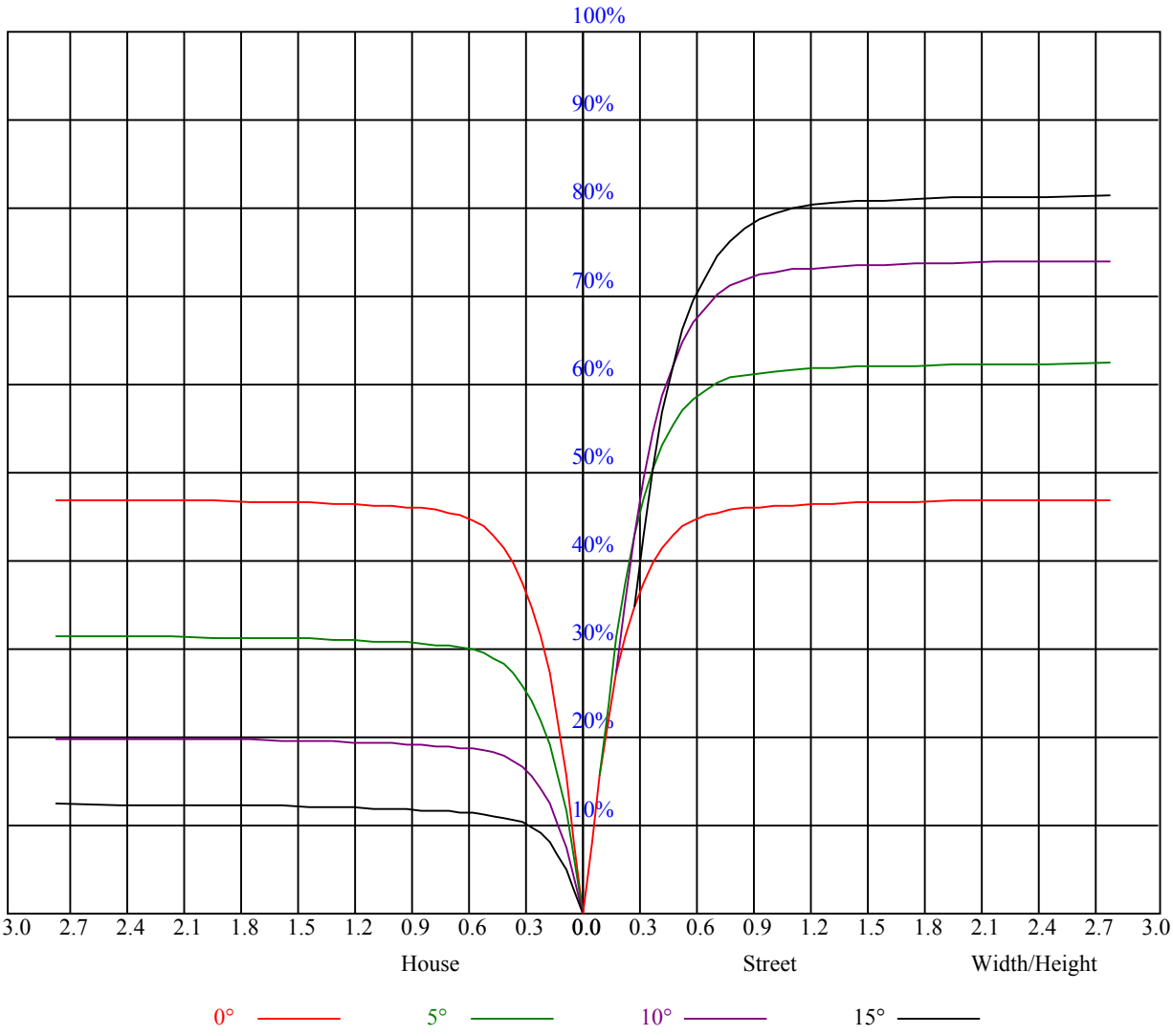


Equipment: GMS1980 Date: 2023/10/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.96	0.95	0.93	0.93	0.92	0.90
2	1.00	0.97	0.94	0.99	0.96	0.93	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.88	0.86
3	0.95	0.92	0.88	0.94	0.91	0.88	0.92	0.89	0.86	0.90	0.87	0.85	0.87	0.86	0.84	0.83
4	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.84	0.81	0.85	0.82	0.80	0.79
5	0.87	0.83	0.80	0.86	0.82	0.79	0.85	0.81	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.76
6	0.84	0.79	0.76	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.77	0.75	0.80	0.77	0.75	0.73
7	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
8	0.78	0.74	0.71	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69
9	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.73	0.70	0.67	0.67
10	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.65	0.65

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/11	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	14548.03	14005.57	13346.86	10978.78	10978.78	10192.76	9141.59	8076.03	7074.69
45.0	14752.84	14664.28	14348.76	13612.56	12804.39	11841.24	10800.59	9748.88	8398.25
90.0	14736.24	14520.36	13917.00	13225.08	11020.29	11020.29	9969.13	8622.93	7580.62
135.0	14786.05	14719.63	14453.93	13861.65	13180.80	12306.21	11359.67	10075.46	9029.28
180.0	14548.03	14719.63	14658.74	14415.18	13955.75	13191.87	12389.24	11459.30	10451.87
225.0	14752.84	14608.92	14166.09	13640.23	12948.31	10905.16	10905.16	9889.42	8817.22
270.0	14736.24	14763.91	14592.32	14127.35	13535.06	12809.93	11940.88	10712.03	9665.85
315.0	14786.05	14608.92	14138.42	13551.67	12217.65	10858.66	10592.41	9513.57	8162.94
360.0	14548.03	14005.57	13346.86	10978.78	10978.78	10192.76	9141.59	8076.03	7074.69

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5960.97	5217.02	4622.52	4129.32	3628.37	3296.81	3001.22	2665.22	2427.20
45.0	7363.14	6411.05	5608.43	4783.66	4252.26	3814.97	3366.61	3062.16	2857.35
90.0	6603.63	5574.05	4902.61	4340.22	3884.66	3423.56	3104.73	2824.64	2579.42
135.0	7988.63	6792.99	5946.08	5099.17	4540.10	4069.60	3659.98	3239.29	2940.38
180.0	9400.15	8093.80	7125.12	6228.39	5315.05	4733.84	4235.66	3737.48	3394.28
225.0	7783.21	6611.38	5807.64	5133.44	4583.78	4013.63	3636.12	3308.43	2943.65
270.0	8625.20	7639.90	6471.94	5658.24	4872.22	4340.83	3914.61	3427.49	3128.59
315.0	7158.83	6251.03	5304.48	4697.25	4198.52	3792.22	3355.48	3054.91	2793.64
360.0	5960.97	5217.02	4622.52	4129.32	3628.37	3296.81	3001.22	2665.22	2427.20

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2160.95	1960.02	1777.90	1564.79	1434.16	1234.33	1079.73	1051.88	939.13
45.0	2857.35	2266.67	2017.58	1831.60	1661.11	1511.65	1365.52	1251.49	1129.71
90.0	2296.57	2090.10	1854.29	1682.14	1521.06	1368.29	1086.26	1086.26	1031.57
135.0	2802.00	2802.00	2176.45	1982.71	1803.36	1631.77	1452.42	1338.95	1223.81
180.0	3034.48	2818.61	2818.61	2290.48	2044.15	1837.68	1669.96	1518.29	1361.64
225.0	2680.72	2447.13	2182.54	1981.60	1794.51	1582.50	1452.42	1341.16	1089.14
270.0	2862.89	2862.89	2560.05	2104.49	1914.63	1731.41	1528.26	1413.12	1313.49
315.0	2485.32	2265.57	2058.55	1869.24	1651.70	1509.44	1390.98	1078.40	1078.40
360.0	2160.95	1960.02	1777.90	1564.79	1434.16	1234.33	1079.73	1051.88	939.13

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	828.26	717.66	588.30	493.03	402.31	320.05	236.58	196.23	170.32
45.0	1011.81	867.34	757.74	650.90	523.04	427.83	342.03	286.68	286.68
90.0	891.08	786.69	682.68	579.88	456.00	364.72	285.51	223.19	175.91
135.0	1077.13	966.42	833.02	731.17	628.76	505.32	410.67	325.98	286.68
180.0	1257.02	1143.55	1000.74	898.89	793.16	683.56	554.03	454.40	339.26
225.0	1089.14	979.70	872.32	763.71	630.86	526.91	430.10	321.22	247.43
270.0	1201.12	1063.29	949.81	837.44	697.40	587.80	460.49	368.05	287.78
315.0	1021.44	881.73	769.97	660.37	530.90	435.96	347.40	271.79	205.92
360.0	828.26	717.66	588.30	493.03	402.31	320.05	236.58	196.23	170.32

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	153.11	137.66	120.34	108.27	97.75	88.62	78.60	72.13	66.09
45.0	174.25	152.00	136.39	122.50	110.38	96.98	87.90	79.99	73.12
90.0	156.10	139.82	122.17	109.93	99.25	87.40	79.65	72.57	65.15
135.0	286.68	157.54	140.04	125.21	109.54	98.81	89.29	79.27	72.18
180.0	297.75	297.75	161.80	138.94	123.83	111.21	97.37	87.85	79.54
225.0	185.10	160.75	142.54	123.11	110.10	98.64	89.01	80.71	71.74
270.0	287.78	175.64	157.98	141.04	126.48	110.71	99.75	90.56	82.37
315.0	179.68	161.80	145.30	126.48	113.59	99.80	90.67	82.31	73.84
360.0	153.11	137.66	120.34	108.27	97.75	88.62	78.60	72.13	66.09

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	60.67	55.13	51.31	47.88	44.23	41.52	39.13	36.70	35.04
45.0	65.82	60.45	55.96	52.20	47.77	44.73	41.52	39.25	37.14
90.0	59.95	55.19	51.48	47.27	44.12	41.57	39.41	36.70	34.93
135.0	66.26	59.62	54.86	50.93	46.66	44.34	41.07	38.86	36.26
180.0	72.40	65.21	60.06	55.46	51.70	47.71	44.45	41.13	38.97
225.0	66.04	60.67	55.08	51.48	47.94	44.06	41.63	39.36	36.64
270.0	73.95	68.25	61.28	57.01	53.31	48.77	45.83	43.23	40.13
315.0	67.92	62.27	57.62	52.70	49.26	46.16	43.51	40.35	38.25
360.0	60.67	55.13	51.31	47.88	44.23	41.52	39.13	36.70	35.04

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	33.49	31.94	31.00	30.06	29.23	28.40	27.90	27.23	26.46
45.0	34.93	33.43	32.22	31.11	30.00	29.34	28.62	27.84	27.34
90.0	33.05	31.83	30.50	29.45	28.73	28.06	27.18	26.74	26.18
135.0	34.49	32.94	31.44	30.22	29.34	28.40	27.84	27.01	26.57
180.0	36.81	34.54	33.10	31.83	30.67	29.56	28.73	28.23	27.46
225.0	34.98	33.60	32.05	31.00	30.17	29.56	28.67	28.01	27.57
270.0	38.14	36.42	34.87	33.10	31.99	31.22	30.39	29.45	28.78
315.0	36.53	34.60	33.16	31.99	30.83	30.00	29.23	28.51	28.01
360.0	33.49	31.94	31.00	30.06	29.23	28.40	27.90	27.23	26.46

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.41	24.63	23.25	22.36	21.59	20.37	19.65	18.99	18.16
45.0	26.63	25.68	24.74	23.86	22.92	21.98	21.09	20.04	19.37
90.0	25.30	24.30	23.47	22.58	21.70	20.76	19.93	19.26	18.54
135.0	25.79	24.96	24.19	23.41	22.25	21.42	20.48	19.54	18.88
180.0	26.79	26.18	25.35	24.36	23.58	22.64	21.53	20.76	19.65
225.0	27.01	25.79	24.91	24.02	22.75	21.86	20.87	19.98	19.32
270.0	28.23	27.34	26.29	25.24	24.08	23.08	22.25	21.03	20.26
315.0	27.12	26.07	25.13	23.86	22.92	22.14	20.87	20.09	19.43
360.0	25.41	24.63	23.25	22.36	21.59	20.37	19.65	18.99	18.16

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.60	17.16	16.72	16.11	15.72	15.28	14.83	14.34	14.00
45.0	18.71	18.10	17.44	16.94	16.44	16.00	15.44	15.06	14.61
90.0	18.05	17.49	17.05	16.61	16.16	15.61	15.17	14.72	14.28
135.0	18.16	17.66	17.21	16.77	16.27	15.89	15.50	15.17	14.67
180.0	18.88	18.32	17.77	17.27	16.72	16.33	15.89	15.50	15.06
225.0	18.71	17.99	17.55	17.05	16.44	16.00	15.55	15.17	14.72
270.0	19.60	18.93	18.27	17.71	17.16	16.50	16.05	15.50	14.95
315.0	18.54	17.88	17.33	16.77	16.27	15.72	15.22	14.83	14.45
360.0	17.60	17.16	16.72	16.11	15.72	15.28	14.83	14.34	14.00

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.67	13.28	12.95	12.73	12.51	12.29	12.57	12.29	12.40
45.0	14.17	13.78	13.34	13.06	12.79	12.57	12.29	12.40	11.79
90.0	13.89	13.51	13.17	12.90	12.73	12.45	12.18	12.29	11.73
135.0	14.34	13.95	13.62	13.17	12.95	12.62	12.40	12.18	12.01
180.0	14.67	14.28	13.89	13.51	13.23	12.84	12.57	12.34	12.12
225.0	14.28	13.84	13.45	13.12	12.90	12.57	12.29	12.12	11.85
270.0	14.56	14.17	13.67	13.34	13.01	12.73	12.45	12.29	12.51
315.0	14.00	13.62	13.34	12.95	12.73	12.57	12.29	12.62	12.18
360.0	13.67	13.28	12.95	12.73	12.51	12.29	12.57	12.29	12.40

Intensity data(cd)

C/γ(°)	90.0
0.0	12.34
45.0	12.34
90.0	11.79
135.0	11.73
180.0	11.96
225.0	11.73
270.0	11.85
315.0	12.57
360.0	12.34