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NATA

Client:
LumCAT: 2-2642-L
Luminaire: 92.70.412.00
Report No: 20231011-B013
Ballast type: AC

Test No: 20231011-C013	Voltage(V): 34.600
LampCAT: TRIDONIC SLE G7 15MM	Current(A): 0.530
Lamp flux(lm): 3047.8	Power (W): 18.338
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2838.67, Efficiency(%): 93.14% , Luminous Efficacy(lm/W): 154.80
Central intensity(cd): 4475.478, Maximum intensity(cd): 4476.999
Angle of maximum intensity: C=0.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=48.2
[C90/270]Total=48.2
Field angle(10%Imax): [C0/180]Total=71.6
[C90/270]Total=71.6
Maximum s/h(1/2): C0_180=0.76 C90_270=0.76
Maximum s/h(1/4): C0_180=0.75 C90_270=0.75
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.14%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.936%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4475.477	0.000	0	0.00%	0.00%
1.0	4476.999	4.284	4.284	0.14%	0.15%
2.0	4468.627	12.840	17.123	0.42%	0.60%
3.0	4460.393	21.355	38.478	0.70%	1.36%
4.0	4437.214	29.783	68.262	0.98%	2.40%
5.0	4400.680	38.020	106.282	1.25%	3.74%
6.0	4355.844	46.018	152.3	1.51%	5.37%
7.0	4290.734	53.669	205.969	1.76%	7.26%
8.0	4211.717	60.850	266.819	2.00%	9.40%
9.0	4126.196	67.574	334.393	2.22%	11.78%
10.0	4030.434	73.815	408.208	2.42%	14.38%
11.0	3920.350	79.445	487.653	2.61%	17.18%
12.0	3811.234	84.517	572.17	2.77%	20.16%
13.0	3700.527	89.146	661.316	2.92%	23.30%
14.0	3591.134	93.333	754.648	3.06%	26.58%
15.0	3476.206	97.024	851.672	3.18%	30.00%
16.0	3354.982	100.096	951.768	3.28%	33.53%
17.0	3233.757	102.604	1054.372	3.37%	37.14%
18.0	3102.500	104.471	1158.843	3.43%	40.82%
19.0	2971.658	105.678	1264.521	3.47%	44.55%
20.0	2838.740	106.346	1370.868	3.49%	48.29%
21.0	2702.709	106.407	1477.275	3.49%	52.04%
22.0	2557.406	105.704	1582.979	3.47%	55.76%
23.0	2406.705	104.160	1687.139	3.42%	59.43%
24.0	2258.634	102.001	1789.14	3.35%	63.03%
25.0	2109.802	99.329	1888.469	3.26%	66.53%
26.0	1961.593	96.106	1984.575	3.15%	69.91%
27.0	1801.068	92.054	2076.629	3.02%	73.15%
28.0	1607.482	86.297	2162.926	2.83%	76.19%
29.0	1420.415	79.218	2242.145	2.60%	78.99%
30.0	1265.847	72.529	2314.673	2.38%	81.54%
31.0	1118.675	66.358	2381.031	2.18%	83.88%
32.0	965.166	59.700	2440.731	1.96%	85.98%
33.0	807.042	52.210	2492.941	1.71%	87.82%
34.0	669.363	44.680	2537.621	1.47%	89.39%
35.0	532.965	37.340	2574.961	1.23%	90.71%
36.0	421.601	30.394	2605.354	1.00%	91.78%
37.0	327.403	24.428	2629.783	0.80%	92.64%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	258.965	19.572	2649.355	0.64%	93.33%
39.0	208.517	15.956	2665.311	0.52%	93.89%
40.0	165.320	13.038	2678.349	0.43%	94.35%
41.0	132.932	10.621	2688.97	0.35%	94.73%
42.0	111.953	8.897	2697.867	0.29%	95.04%
43.0	99.761	7.842	2705.71	0.26%	95.32%
44.0	89.022	7.125	2712.835	0.23%	95.57%
45.0	80.387	6.511	2719.345	0.21%	95.80%
46.0	72.991	5.998	2725.344	0.20%	96.01%
47.0	66.404	5.544	2730.888	0.18%	96.20%
48.0	60.661	5.137	2736.024	0.17%	96.38%
49.0	55.568	4.773	2740.797	0.16%	96.55%
50.0	51.465	4.463	2745.26	0.15%	96.71%
51.0	48.040	4.210	2749.47	0.14%	96.86%
52.0	44.947	3.990	2753.46	0.13%	97.00%
53.0	42.449	3.802	2757.262	0.12%	97.13%
54.0	40.111	3.639	2760.901	0.12%	97.26%
55.0	38.097	3.491	2764.392	0.11%	97.38%
56.0	36.229	3.359	2767.75	0.11%	97.50%
57.0	34.548	3.236	2770.986	0.11%	97.62%
58.0	33.095	3.128	2774.114	0.10%	97.73%
59.0	31.759	3.032	2777.146	0.10%	97.83%
60.0	30.514	2.942	2780.088	0.10%	97.94%
61.0	29.275	2.853	2782.942	0.09%	98.04%
62.0	28.161	2.768	2785.709	0.09%	98.13%
63.0	27.123	2.689	2788.398	0.09%	98.23%
64.0	26.210	2.617	2791.015	0.09%	98.32%
65.0	25.310	2.550	2793.565	0.08%	98.41%
66.0	24.432	2.482	2796.046	0.08%	98.50%
67.0	23.643	2.417	2798.464	0.08%	98.58%
68.0	22.826	2.354	2800.818	0.08%	98.67%
69.0	22.121	2.293	2803.111	0.08%	98.75%
70.0	21.394	2.235	2805.346	0.07%	98.83%
71.0	20.709	2.176	2807.522	0.07%	98.90%
72.0	20.024	2.118	2809.64	0.07%	98.98%
73.0	19.353	2.059	2811.699	0.07%	99.05%
74.0	18.716	2.001	2813.7	0.07%	99.12%
75.0	18.073	1.944	2815.644	0.06%	99.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.464	1.886	2817.531	0.06%	99.26%
77.0	16.862	1.830	2819.361	0.06%	99.32%
78.0	16.274	1.774	2821.134	0.06%	99.38%
79.0	15.679	1.717	2822.851	0.06%	99.44%
80.0	15.118	1.660	2824.512	0.05%	99.50%
81.0	14.586	1.606	2826.118	0.05%	99.56%
82.0	14.074	1.554	2827.672	0.05%	99.61%
83.0	13.582	1.503	2829.176	0.05%	99.67%
84.0	13.174	1.458	2830.633	0.05%	99.72%
85.0	12.821	1.419	2832.052	0.05%	99.77%
86.0	12.489	1.384	2833.435	0.05%	99.82%
87.0	12.212	1.352	2834.787	0.04%	99.86%
88.0	11.915	1.322	2836.109	0.04%	99.91%
89.0	11.666	1.292	2837.401	0.04%	99.96%
90.0	11.555	1.273	2838.675	0.04%	100.00%

Zonal flux distribution table

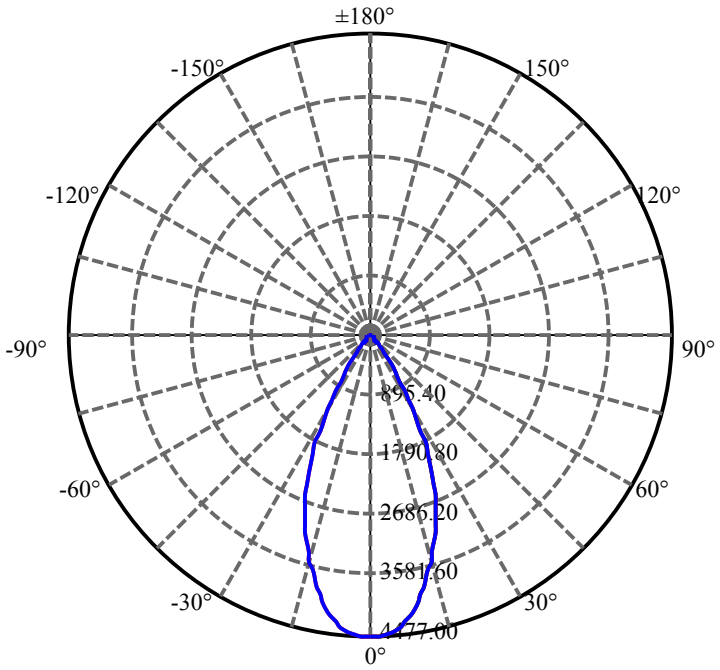
ZONAL LUMEN SUMMARY

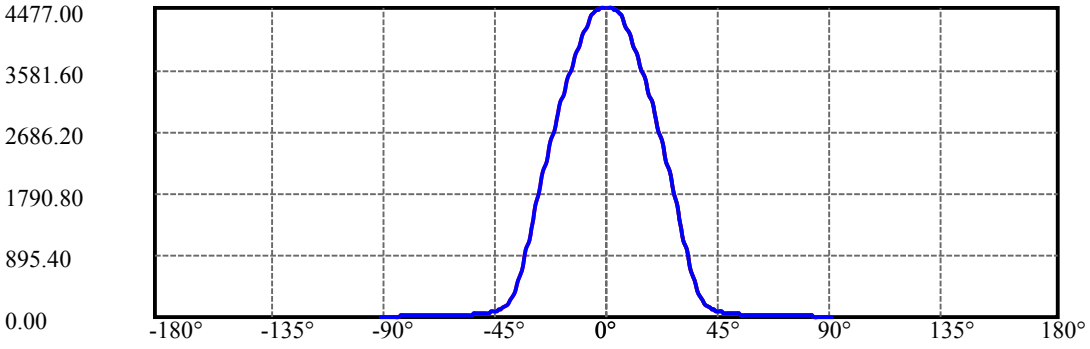
Zone	Lumens	%Lamp	%Fixt
0-30	2314.67	75.95%	81.54%
0-40	2678.35	87.88%	94.35%
0-60	2780.09	91.22%	97.94%
0-90	2837.40	93.10%	99.96%
0-120	2837.40	93.10%	99.96%
0-180	2838.67	93.14%	100.00%
60-90	57.31	1.88%	2.02%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.40	2270.94	74.51%	80.00%

ZONAL LUMEN SUMMARY

0-10	408.21
10-20	962.66
20-30	943.81
30-40	363.68
40-50	66.91
50-60	34.83
60-70	25.26
70-80	19.17
80-90	12.89
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:36.8 Right:34.8
:C90/270Left:36.8 Right:34.8

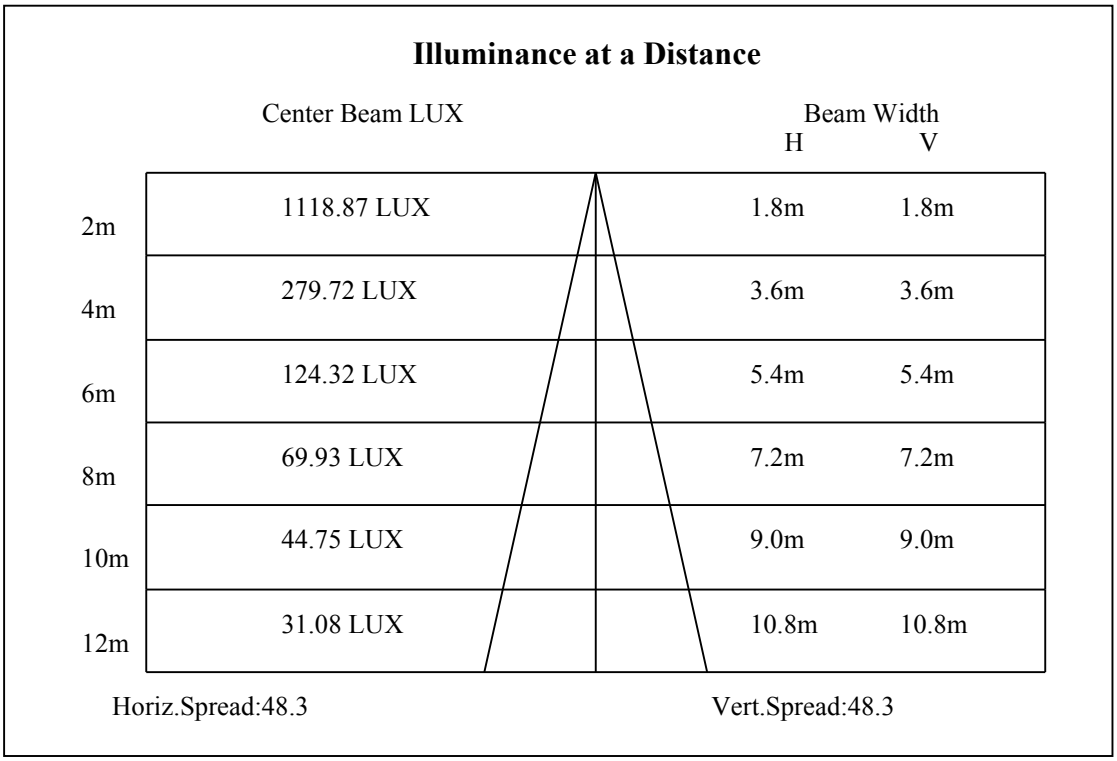
Beam Angle(50%Imax):C0/180Left:25.1 Right:23.1
:C90/270Left:25.1 Right:23.1

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/11
Humidity(%): 0.0%

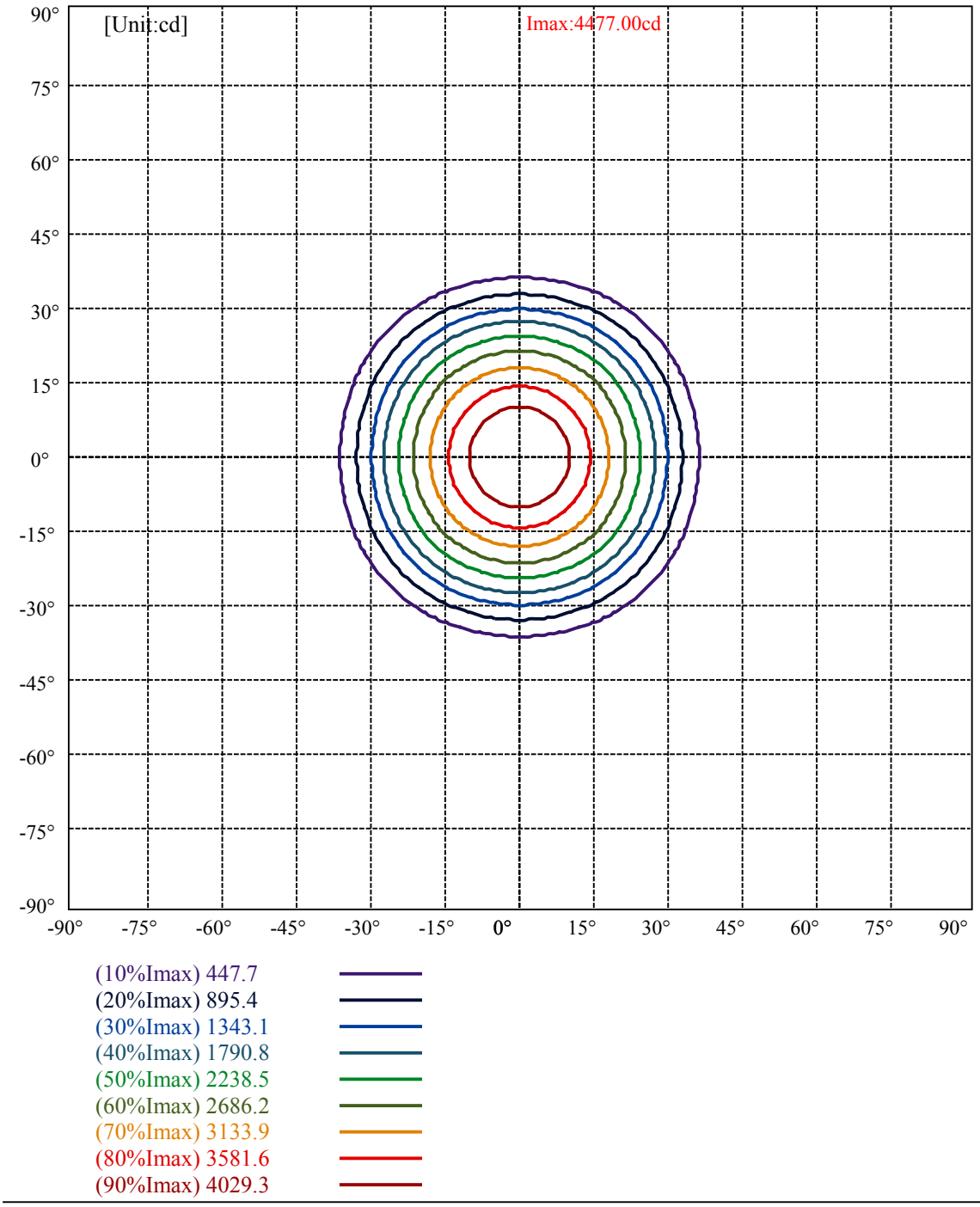
Operator: NT07
Distance(m): 7.44

Lux distance Curve



Equipment: GMS1980 Date: 2023/10/11 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

ISO-Intensity(V-H)

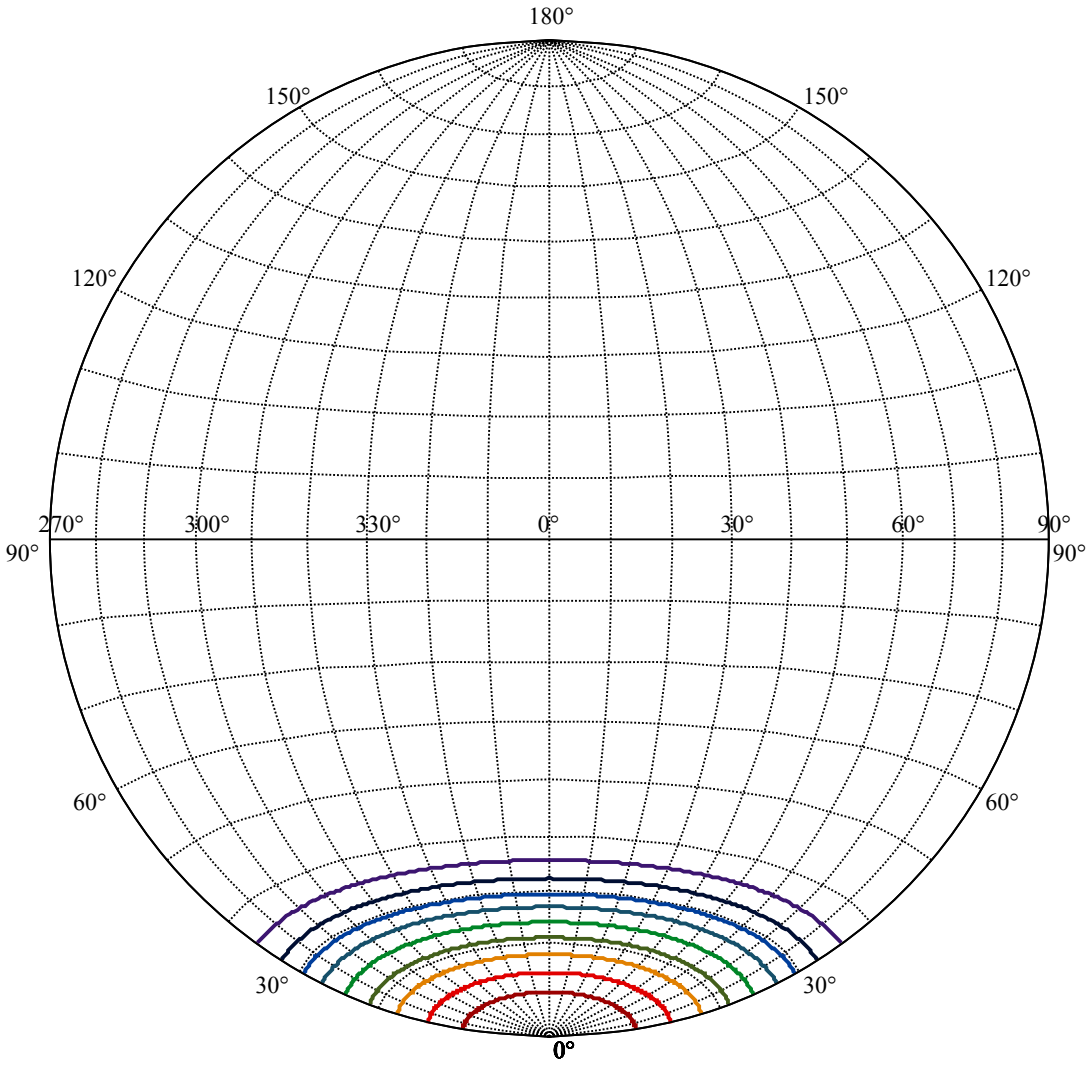


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/11
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



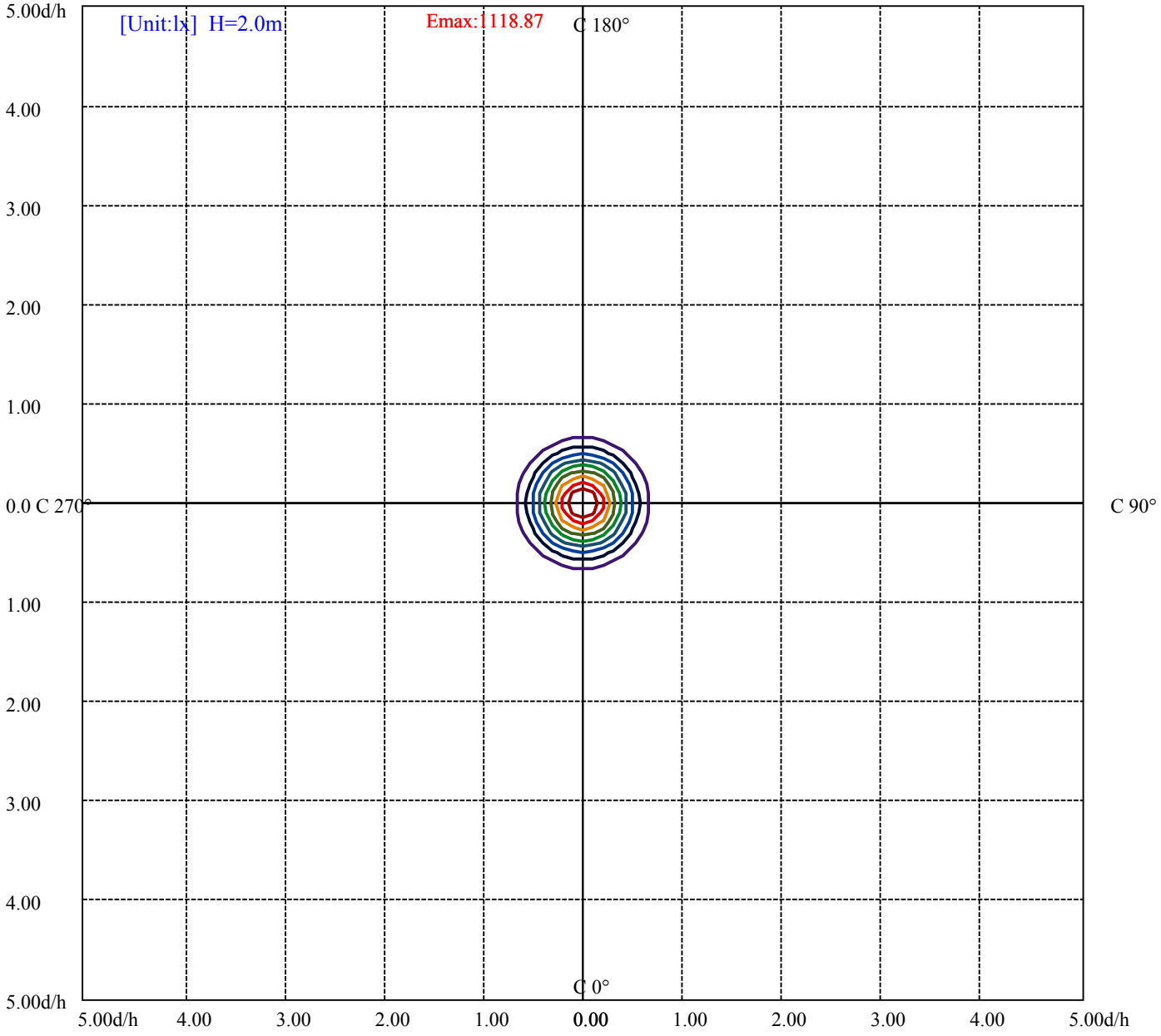
House [Unit:cd] Road

Imax:4477.00

(10%Imax) 447.7
(20%Imax) 895.4
(30%Imax) 1343.1
(40%Imax) 1790.8
(50%Imax) 2238.5
(60%Imax) 2686.2
(70%Imax) 3133.9
(80%Imax) 3581.6
(90%Imax) 4029.3

Equipment: GMS1980 Date: 2023/10/11 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

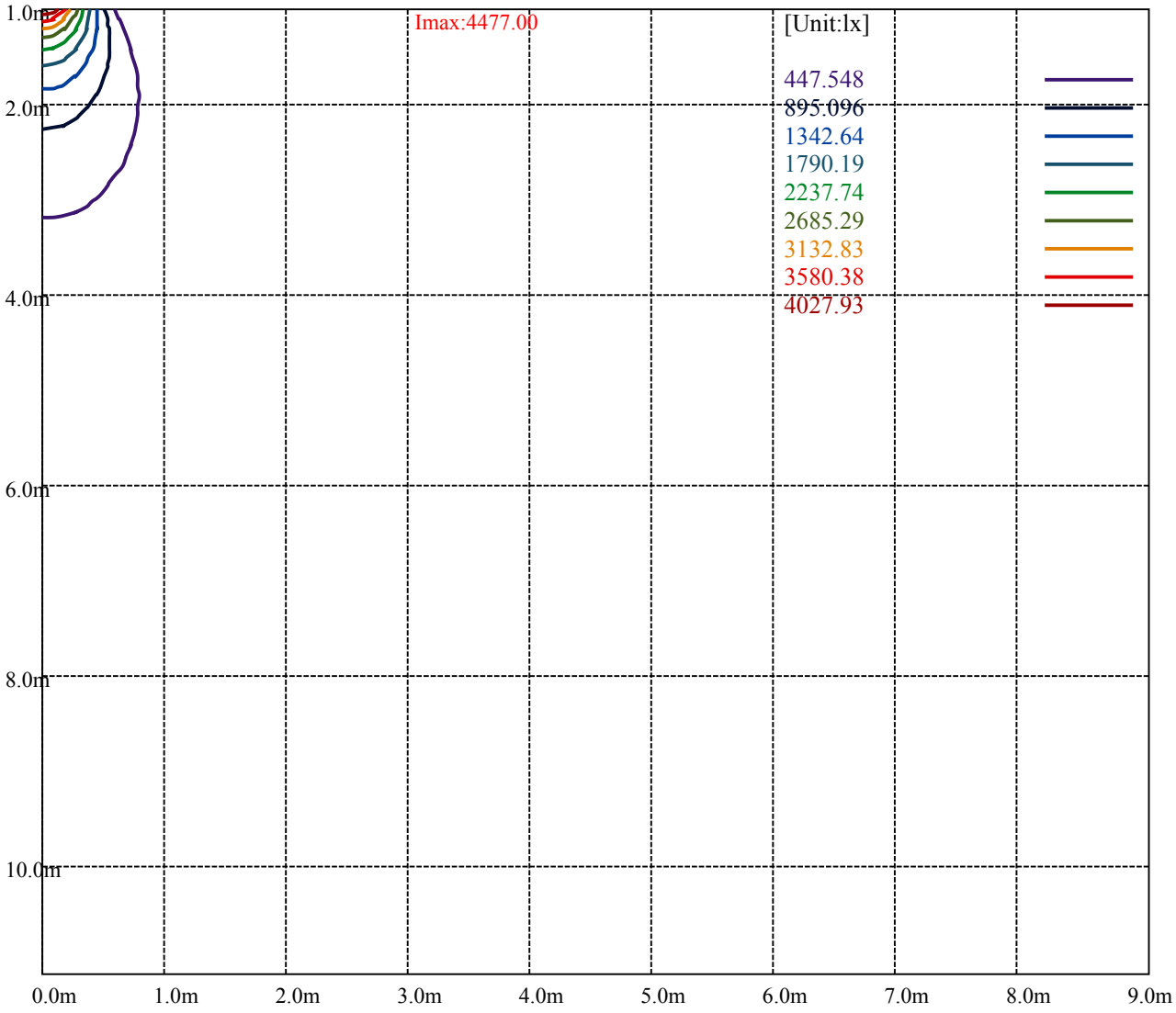
ISO illuminance diagram



(10%Emax) 111.887
(20%Emax) 223.774
(30%Emax) 335.66
(40%Emax) 447.5475
(50%Emax) 559.435
(60%Emax) 671.3225
(70%Emax) 783.2075
(80%Emax) 895.095
(90%Emax) 1006.982

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/10/11
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/11
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

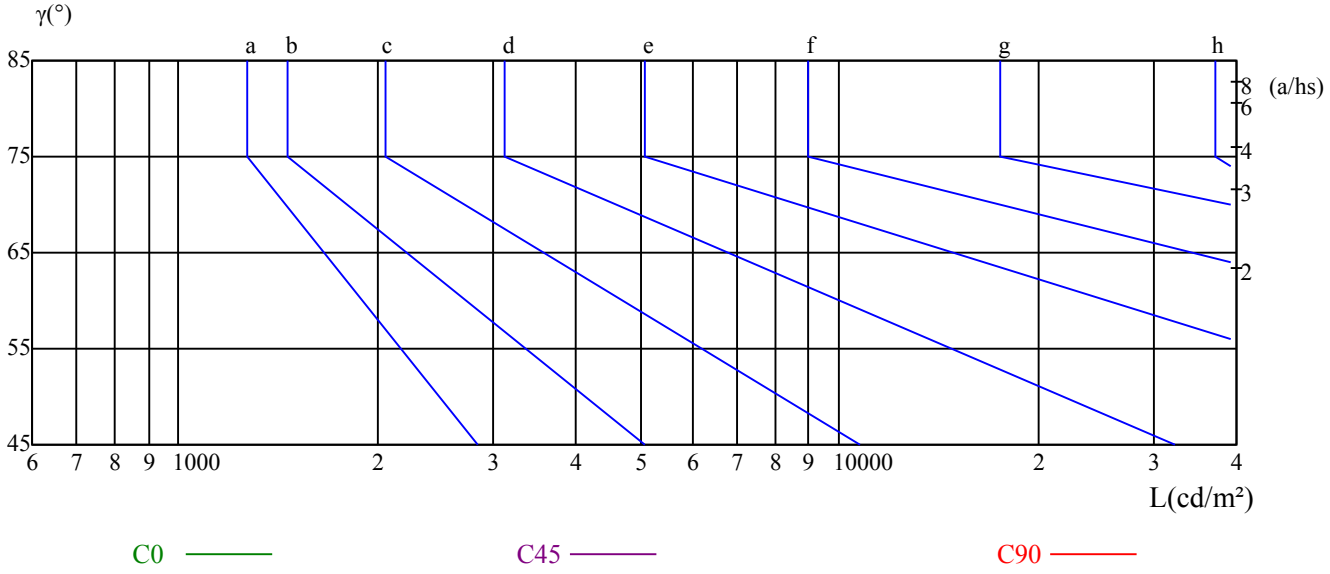
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

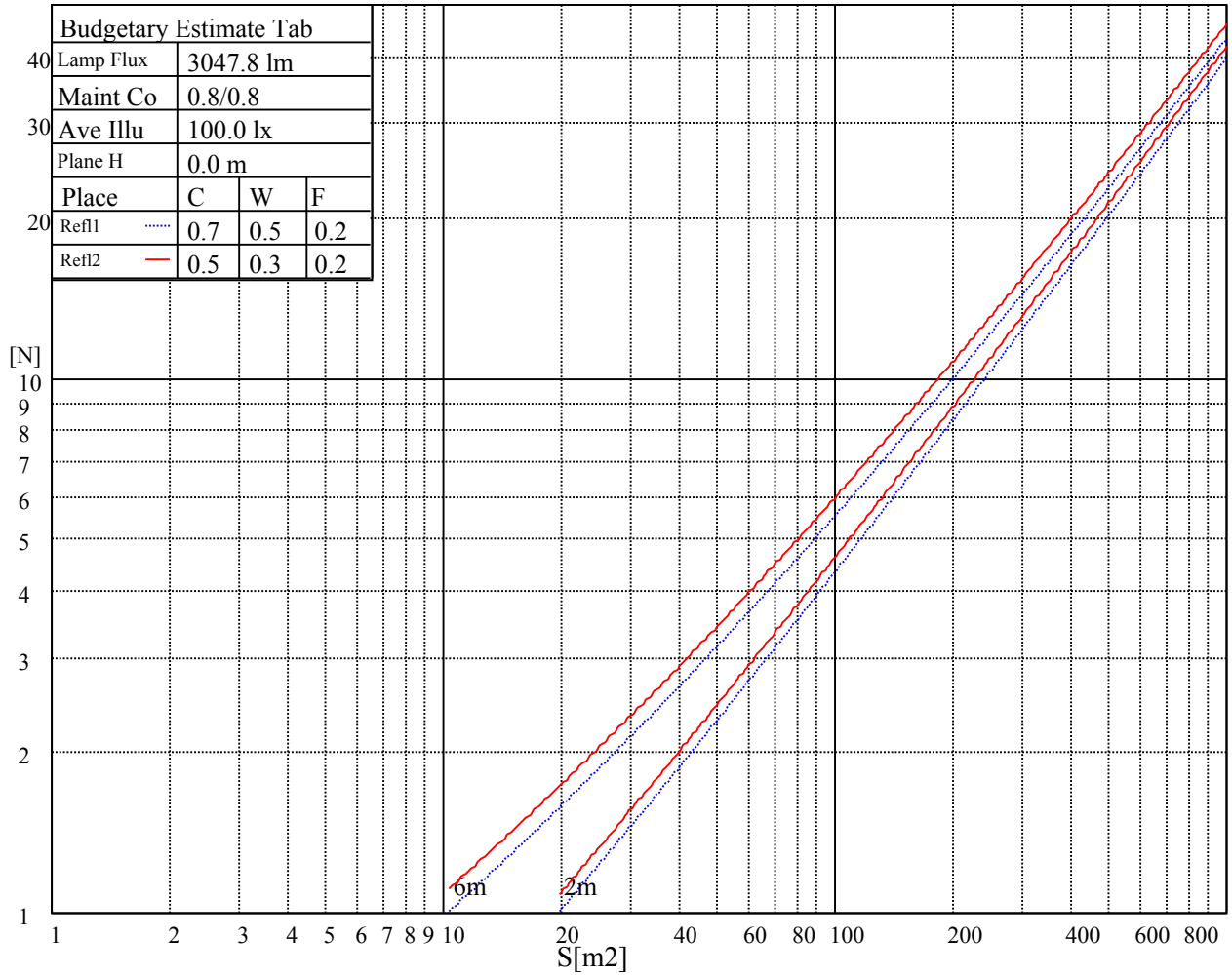
Luminance Limitting Curve



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

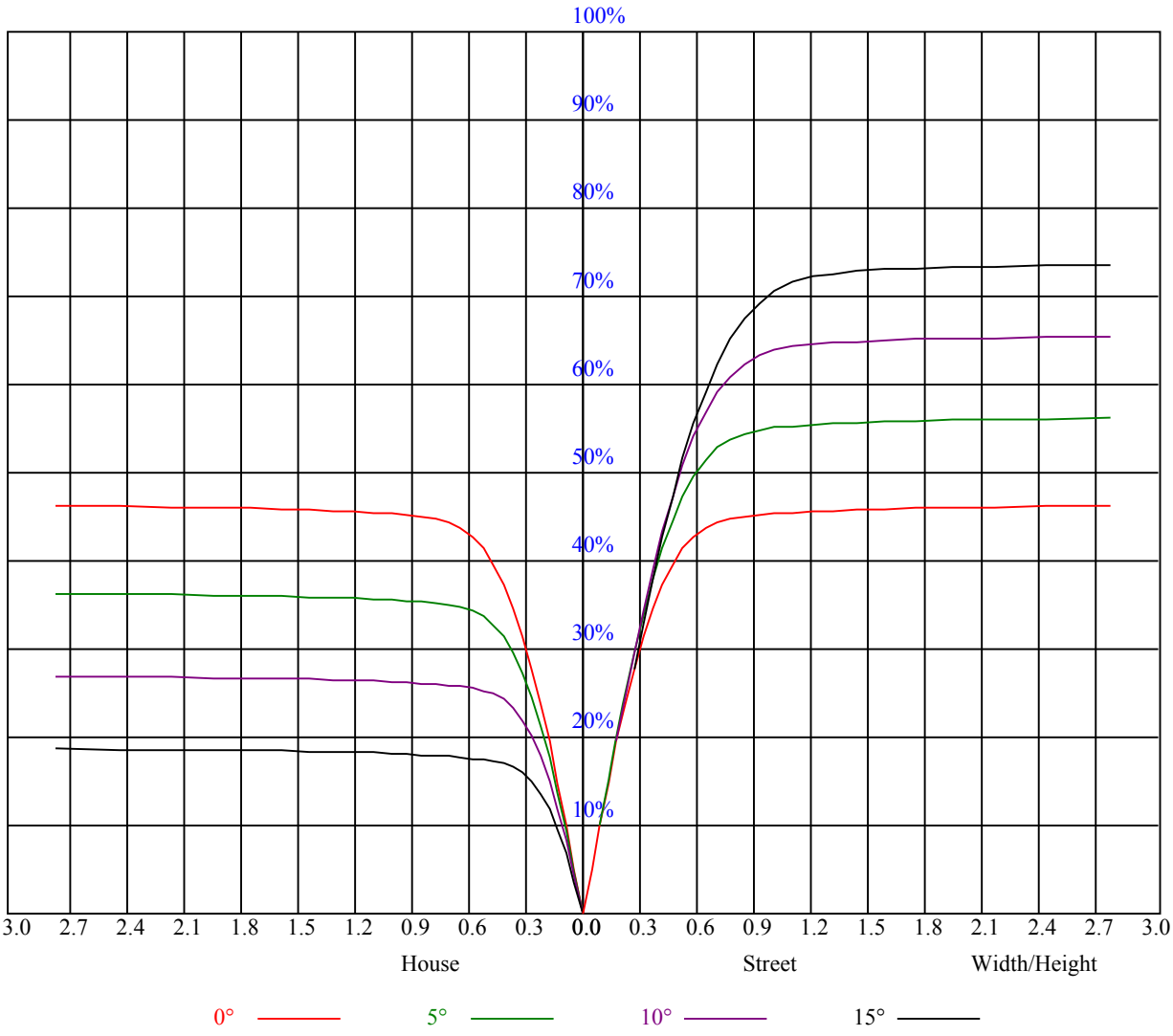


Equipment: GMS1980 Date: 2023/10/11 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.11	1.11	1.11	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
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	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.82
3	0.91	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.77
4	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.72
5	0.81	0.75	0.72	0.80	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.68
6	0.76	0.71	0.67	0.76	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.65
7	0.72	0.67	0.63	0.72	0.67	0.63	0.71	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.62	0.61
8	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.52

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/11	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	4458.73	4448.22	4404.49	4346.92	4294.89	4209.64	4140.45	4058.53	3930.11
45.0	4474.23	4464.27	4448.77	4443.23	4419.98	4361.86	4296.55	4211.86	4129.38
90.0	4484.75	4474.79	4469.25	4470.91	4429.95	4382.34	4327.54	4258.91	4162.04
135.0	4484.20	4500.80	4498.59	4500.80	4504.12	4491.94	4464.82	4411.13	4350.24
180.0	4458.73	4475.34	4491.94	4498.59	4508.55	4524.60	4521.28	4495.82	4454.86
225.0	4474.23	4494.16	4493.61	4491.39	4475.89	4458.73	4428.29	4364.08	4295.44
270.0	4484.75	4483.09	4483.64	4488.07	4463.71	4432.16	4390.65	4346.36	4285.48
315.0	4484.20	4475.34	4458.73	4443.23	4400.61	4344.15	4277.17	4179.20	4086.20
360.0	4458.73	4448.22	4404.49	4346.92	4294.89	4209.64	4140.45	4058.53	3930.11

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3821.06	3719.76	3622.89	3506.10	3407.01	3310.15	3198.88	3092.61	2954.22
45.0	4043.03	3945.60	3812.20	3700.39	3597.43	3491.15	3393.18	3258.11	3147.41
90.0	4057.42	3955.01	3826.59	3724.19	3632.30	3498.90	3378.23	3254.79	3144.64
135.0	4291.01	4206.32	4090.63	3983.25	3868.66	3749.65	3636.73	3490.04	3374.36
180.0	4411.68	4328.10	4238.98	4143.22	4009.26	3901.32	3762.94	3650.57	3524.36
225.0	4214.07	4122.18	4007.60	3905.20	3798.92	3690.42	3561.45	3451.30	3333.39
270.0	4180.30	4093.95	3999.30	3873.64	3765.15	3658.87	3550.93	3444.65	3307.93
315.0	3990.99	3872.54	3764.60	3653.89	3525.47	3428.60	3327.30	3197.78	3083.75
360.0	3821.06	3719.76	3622.89	3506.10	3407.01	3310.15	3198.88	3092.61	2954.22

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2836.87	2687.97	2561.21	2423.38	2260.09	2129.45	1997.16	1813.94	1659.50
45.0	3036.70	2913.26	2756.61	2630.40	2499.22	2359.17	2189.23	2063.03	1926.31
90.0	2990.20	2859.57	2737.24	2605.49	2426.70	2282.23	2146.06	1973.91	1823.35
135.0	3216.60	3090.95	2959.20	2796.46	2666.94	2523.02	2340.90	2192.56	2050.85
180.0	3381.55	3261.43	3136.89	3011.79	2846.28	2710.11	2557.34	2422.83	2234.62
225.0	3180.62	3054.97	2931.53	2772.11	2637.05	2462.13	2320.98	2183.15	2047.53
270.0	3205.53	3087.62	2933.74	2815.28	2686.86	2509.18	2365.81	2207.50	2070.22
315.0	2971.93	2817.50	2693.51	2566.75	2436.11	2278.35	2151.59	2021.51	1880.36
360.0	2836.87	2687.97	2561.21	2423.38	2260.09	2129.45	1997.16	1813.94	1659.50

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1495.65	1094.45	1094.45	981.25	834.23	697.73	543.74	436.08	341.20
45.0	1733.12	1577.58	1420.37	1223.87	1068.88	879.57	736.20	606.68	486.00
90.0	1664.48	1463.55	1101.20	1101.20	941.40	791.39	651.46	523.04	384.60
135.0	1905.82	1711.53	1551.01	1392.14	1233.28	1040.65	890.64	751.70	590.62
180.0	2105.65	1962.84	1775.19	1624.07	1465.21	1256.53	1097.66	909.46	763.33
225.0	1868.74	1717.07	1559.86	1285.86	1087.75	1048.45	892.63	747.22	580.71
270.0	1942.36	1792.35	1599.17	1448.60	1287.52	1120.36	926.62	784.36	656.49
315.0	1692.71	1540.49	1262.06	1069.76	1031.13	886.65	717.38	596.38	460.76
360.0	1495.65	1094.45	1094.45	981.25	834.23	697.73	543.74	436.08	341.20

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	246.77	191.19	151.67	132.96	117.07	101.91	91.72	83.09	75.61
45.0	354.82	288.95	288.95	156.60	130.80	115.41	103.35	93.22	82.37
90.0	296.03	225.29	172.92	138.99	123.05	109.60	96.81	87.74	79.71
135.0	474.38	348.17	282.86	282.86	156.54	132.41	117.07	105.45	92.99
180.0	631.03	513.13	383.05	294.48	294.48	207.35	141.43	120.56	107.99
225.0	463.20	361.74	257.50	193.68	145.64	126.70	112.15	100.52	88.84
270.0	541.91	407.96	319.39	298.36	213.61	146.69	123.60	109.71	98.47
315.0	364.67	282.80	215.38	170.21	141.37	123.38	109.49	97.81	86.19
360.0	246.77	191.19	151.67	132.96	117.07	101.91	91.72	83.09	75.61

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	69.14	61.89	56.90	52.81	49.21	45.56	43.07	40.24	38.25
45.0	75.06	68.58	61.83	56.74	51.42	48.05	45.33	42.90	40.24
90.0	71.02	65.10	58.40	54.03	50.26	47.22	44.73	41.79	39.74
135.0	84.47	77.05	70.35	64.49	57.73	53.47	49.93	46.28	43.73
180.0	97.26	86.13	78.38	69.91	63.93	58.56	53.19	49.54	46.50
225.0	80.87	73.90	67.81	60.89	56.13	52.20	48.21	45.45	43.01
270.0	86.79	79.38	72.79	66.87	61.50	55.85	52.20	49.04	46.28
315.0	78.49	71.90	64.76	59.56	54.36	50.81	47.66	44.34	41.85
360.0	69.14	61.89	56.90	52.81	49.21	45.56	43.07	40.24	38.25

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	36.53	34.49	33.10	31.72	30.28	29.17	28.12	27.23	26.07
45.0	38.42	36.75	35.32	33.60	32.38	31.16	30.06	28.78	27.79
90.0	37.97	35.92	34.43	33.10	31.55	30.50	29.45	28.17	27.29
135.0	40.91	38.91	37.20	35.20	33.77	32.38	31.11	29.67	28.62
180.0	43.84	41.46	38.86	37.03	35.37	33.82	32.11	30.94	29.45
225.0	40.30	38.42	36.70	34.76	33.32	32.05	30.83	29.45	28.40
270.0	43.18	40.96	38.53	36.81	35.32	33.49	32.16	31.00	29.78
315.0	39.74	37.86	35.70	34.15	32.77	31.50	30.28	28.95	27.90
360.0	36.53	34.49	33.10	31.72	30.28	29.17	28.12	27.23	26.07

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.30	24.47	23.75	22.86	22.20	21.37	20.70	20.09	19.48
45.0	26.63	25.85	25.08	24.08	23.36	22.69	22.03	21.20	20.54
90.0	26.46	25.46	24.69	23.91	22.97	22.31	21.59	20.98	20.31
135.0	27.62	26.79	25.74	24.91	24.13	23.19	22.53	21.86	20.98
180.0	28.40	27.34	26.24	25.35	24.58	23.58	22.92	22.25	21.53
225.0	27.40	26.46	25.41	24.58	23.86	22.97	22.25	21.42	20.76
270.0	28.51	27.46	26.57	25.74	24.74	23.91	23.19	22.25	21.59
315.0	26.68	25.85	25.02	24.02	23.30	22.58	21.75	21.09	20.48
360.0	25.30	24.47	23.75	22.86	22.20	21.37	20.70	20.09	19.48

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.76	18.21	17.60	16.94	16.38	15.89	15.28	14.78	14.28
45.0	19.93	19.32	18.60	17.99	17.44	16.77	16.22	15.67	15.06
90.0	19.60	18.99	18.38	17.71	17.10	16.44	15.89	15.33	14.67
135.0	20.31	19.71	18.93	18.38	17.77	17.27	16.61	16.11	15.55
180.0	20.76	20.15	19.54	18.93	18.21	17.66	17.10	16.38	15.83
225.0	20.09	19.37	18.76	18.10	17.49	16.83	16.27	15.72	15.17
270.0	20.92	20.04	19.48	18.65	18.05	17.44	16.83	16.11	15.55
315.0	19.82	19.04	18.43	17.88	17.27	16.61	16.00	15.33	14.83
360.0	18.76	18.21	17.60	16.94	16.38	15.89	15.28	14.78	14.28

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.84	13.40	13.01	12.73	12.40	12.12	11.85	11.57	11.57
45.0	14.56	14.00	13.51	13.17	12.79	12.40	12.18	11.85	11.57
90.0	14.23	13.67	13.34	12.90	12.62	12.29	12.07	11.73	11.51
135.0	14.83	14.39	13.73	13.34	13.01	12.62	12.34	12.07	11.73
180.0	15.22	14.78	14.23	13.67	13.28	12.90	12.57	12.29	12.01
225.0	14.56	14.06	13.56	13.17	12.84	12.51	12.18	11.96	11.62
270.0	15.06	14.45	13.89	13.40	12.95	12.68	12.40	12.01	11.73
315.0	14.39	13.84	13.40	13.01	12.68	12.40	12.12	11.85	11.57
360.0	13.84	13.40	13.01	12.73	12.40	12.12	11.85	11.57	11.57

Intensity data(cd)

C/γ(°)	90.0
0.0	11.57
45.0	11.51
90.0	11.51
135.0	11.57
180.0	11.68
225.0	11.51
270.0	11.57
315.0	11.51
360.0	11.57