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NATA

Client:
LumCAT: 2-2645-L
Luminaire: 92.70.412.00
Report No: 20231011-B007
Ballast type: AC

Test No: 20231011-C007	Voltage(V): 34.850
LampCAT: TRIDONIC SLE G7 15MM	Current(A): 0.530
Lamp flux(lm): 3047.8	Power (W): 18.470
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2874.89, Efficiency(%): 94.33% , Luminous Efficacy(lm/W): 155.65
Central intensity(cd): 6257.309, Maximum intensity(cd): 6257.309
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=39.6
[C90/270]Total=39.6
Field angle(10%Imax): [C0/180]Total=63.2
[C90/270]Total=63.2
Maximum s/h(1/2): C0_180=0.65 C90_270=0.65
Maximum s/h(1/4): C0_180=0.63 C90_270=0.63
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.33%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.326%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6257.309	0.000	0	0.00%	0.00%
1.0	6240.496	5.980	5.98	0.20%	0.21%
2.0	6209.498	17.869	23.849	0.59%	0.83%
3.0	6163.208	29.591	53.441	0.97%	1.86%
4.0	6093.739	41.028	94.469	1.35%	3.29%
5.0	6008.910	52.065	146.534	1.71%	5.10%
6.0	5901.870	62.594	209.128	2.05%	7.27%
7.0	5780.992	72.515	281.643	2.38%	9.80%
8.0	5645.029	81.774	363.417	2.68%	12.64%
9.0	5508.790	90.396	453.813	2.97%	15.79%
10.0	5359.543	98.354	552.167	3.23%	19.21%
11.0	5187.463	105.386	657.553	3.46%	22.87%
12.0	5001.682	111.382	768.935	3.65%	26.75%
13.0	4803.170	116.359	885.294	3.82%	30.79%
14.0	4592.273	120.261	1005.555	3.95%	34.98%
15.0	4380.061	123.176	1128.731	4.04%	39.26%
16.0	4138.581	124.822	1253.553	4.10%	43.60%
17.0	3874.544	124.786	1378.339	4.09%	47.94%
18.0	3625.938	123.667	1502.006	4.06%	52.25%
19.0	3352.214	121.406	1623.411	3.98%	56.47%
20.0	3074.131	117.620	1741.031	3.86%	60.56%
21.0	2786.154	112.529	1853.561	3.69%	64.47%
22.0	2525.646	106.743	1960.304	3.50%	68.19%
23.0	2247.425	100.152	2060.456	3.29%	71.67%
24.0	2007.329	93.024	2153.48	3.05%	74.91%
25.0	1773.253	85.962	2239.442	2.82%	77.90%
26.0	1491.489	77.065	2316.506	2.53%	80.58%
27.0	1277.561	67.745	2384.252	2.22%	82.93%
28.0	1147.404	61.395	2445.647	2.01%	85.07%
29.0	999.091	56.158	2501.805	1.84%	87.02%
30.0	840.690	49.674	2551.479	1.63%	88.75%
31.0	700.168	42.880	2594.359	1.41%	90.24%
32.0	575.518	36.547	2630.906	1.20%	91.51%
33.0	469.011	30.772	2661.678	1.01%	92.58%
34.0	377.602	25.621	2687.299	0.84%	93.47%
35.0	300.743	21.067	2708.366	0.69%	94.21%
36.0	251.312	17.578	2725.943	0.58%	94.82%
37.0	213.409	15.157	2741.1	0.50%	95.35%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	155.412	12.311	2753.411	0.40%	95.77%
39.0	116.533	9.282	2762.693	0.30%	96.10%
40.0	91.423	7.253	2769.946	0.24%	96.35%
41.0	73.496	5.873	2775.818	0.19%	96.55%
42.0	61.526	4.906	2780.724	0.16%	96.72%
43.0	52.489	4.223	2784.947	0.14%	96.87%
44.0	46.116	3.722	2788.669	0.12%	97.00%
45.0	41.667	3.374	2792.043	0.11%	97.12%
46.0	37.952	3.114	2795.156	0.10%	97.23%
47.0	34.873	2.896	2798.053	0.10%	97.33%
48.0	32.499	2.724	2800.776	0.09%	97.42%
49.0	30.486	2.587	2803.363	0.08%	97.51%
50.0	28.618	2.464	2805.827	0.08%	97.60%
51.0	27.137	2.359	2808.186	0.08%	97.68%
52.0	25.843	2.273	2810.459	0.07%	97.76%
53.0	24.785	2.202	2812.662	0.07%	97.84%
54.0	23.761	2.140	2814.801	0.07%	97.91%
55.0	22.951	2.085	2816.887	0.07%	97.98%
56.0	22.224	2.041	2818.928	0.07%	98.05%
57.0	21.602	2.004	2820.932	0.07%	98.12%
58.0	21.041	1.972	2822.904	0.06%	98.19%
59.0	20.502	1.942	2824.846	0.06%	98.26%
60.0	20.038	1.915	2826.761	0.06%	98.33%
61.0	19.637	1.893	2828.654	0.06%	98.39%
62.0	19.242	1.873	2830.528	0.06%	98.46%
63.0	18.848	1.853	2832.38	0.06%	98.52%
64.0	18.502	1.833	2834.213	0.06%	98.59%
65.0	18.184	1.816	2836.029	0.06%	98.65%
66.0	17.872	1.799	2837.828	0.06%	98.71%
67.0	17.519	1.780	2839.607	0.06%	98.77%
68.0	17.194	1.758	2841.366	0.06%	98.83%
69.0	16.897	1.739	2843.105	0.06%	98.89%
70.0	16.585	1.720	2844.824	0.06%	98.95%
71.0	16.288	1.699	2846.523	0.06%	99.01%
72.0	16.018	1.680	2848.203	0.06%	99.07%
73.0	15.734	1.660	2849.864	0.05%	99.13%
74.0	15.506	1.642	2851.506	0.05%	99.19%
75.0	15.243	1.625	2853.131	0.05%	99.24%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.015	1.606	2854.737	0.05%	99.30%
77.0	14.731	1.586	2856.323	0.05%	99.35%
78.0	14.475	1.563	2857.886	0.05%	99.41%
79.0	14.198	1.541	2859.427	0.05%	99.46%
80.0	13.942	1.517	2860.944	0.05%	99.51%
81.0	13.686	1.494	2862.438	0.05%	99.57%
82.0	13.416	1.470	2863.908	0.05%	99.62%
83.0	13.146	1.444	2865.352	0.05%	99.67%
84.0	12.918	1.420	2866.772	0.05%	99.72%
85.0	12.697	1.398	2868.17	0.05%	99.77%
86.0	12.524	1.379	2869.548	0.05%	99.81%
87.0	12.330	1.360	2870.909	0.04%	99.86%
88.0	12.164	1.342	2872.25	0.04%	99.91%
89.0	12.019	1.325	2873.576	0.04%	99.95%
90.0	11.949	1.314	2874.89	0.04%	100.00%

Zonal flux distribution table

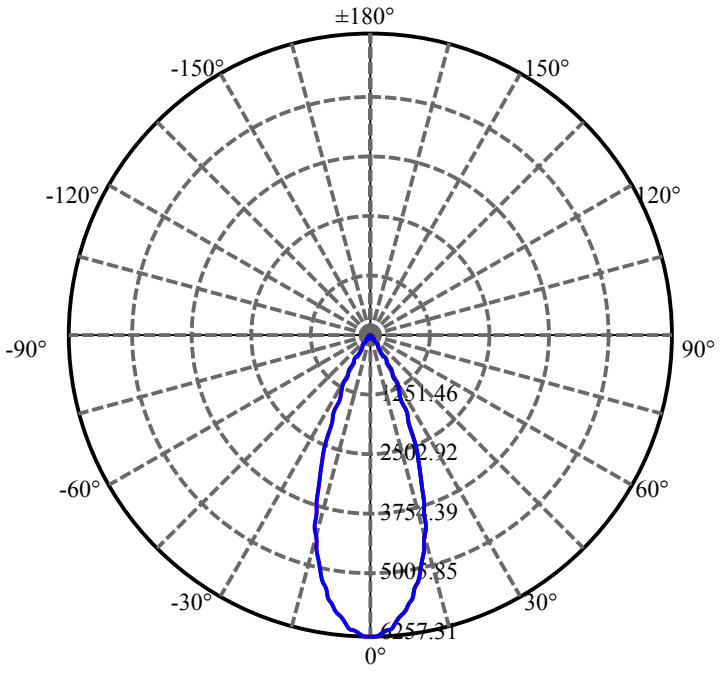
ZONAL LUMEN SUMMARY

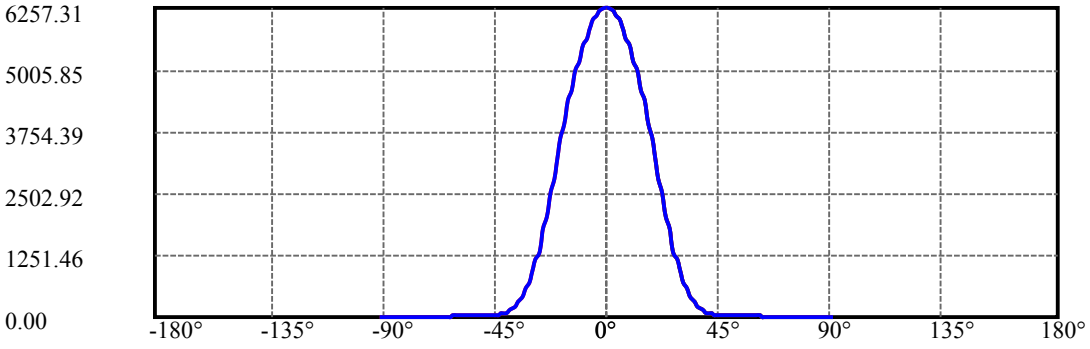
Zone	Lumens	%Lamp	%Fixt
0-30	2551.48	83.72%	88.75%
0-40	2769.95	90.88%	96.35%
0-60	2826.76	92.75%	98.33%
0-90	2873.58	94.28%	99.95%
0-120	2873.58	94.28%	99.95%
0-180	2874.89	94.33%	100.00%
60-90	46.81	1.54%	1.63%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.78	2299.91	75.46%	80.00%

ZONAL LUMEN SUMMARY

0-10	552.17
10-20	1188.86
20-30	810.45
30-40	218.47
40-50	35.88
50-60	20.93
60-70	18.06
70-80	16.12
80-90	12.63
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):

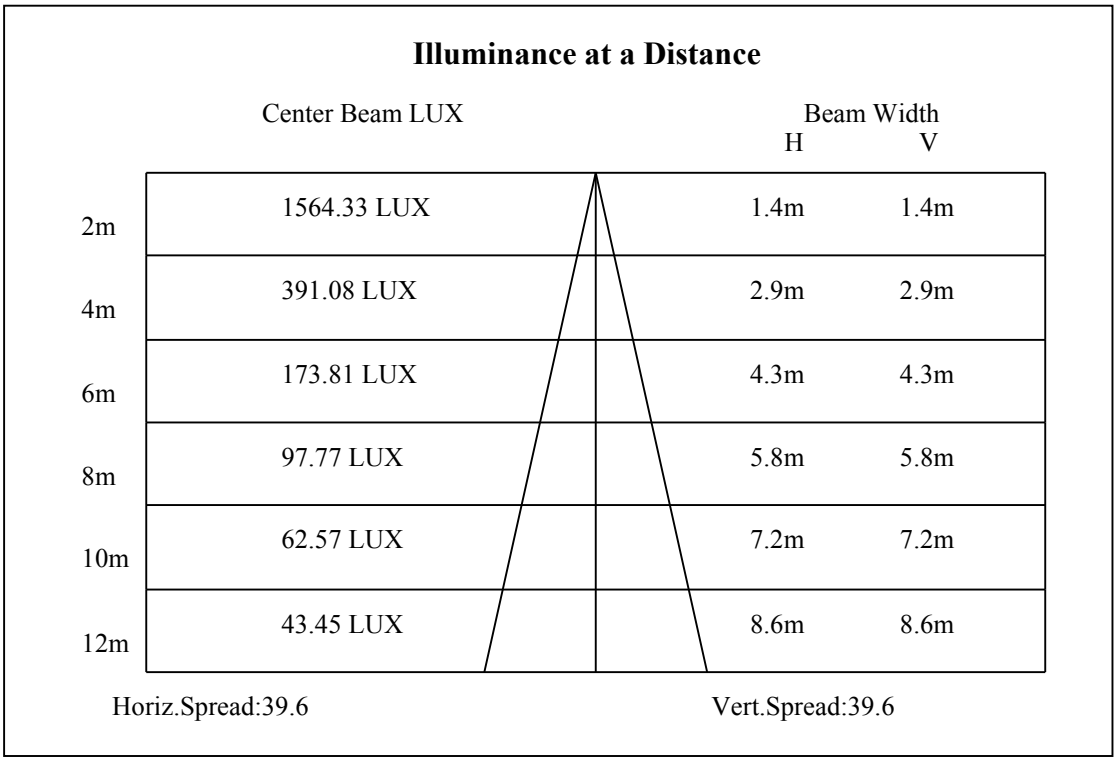
C0/C180:

C90/C270:

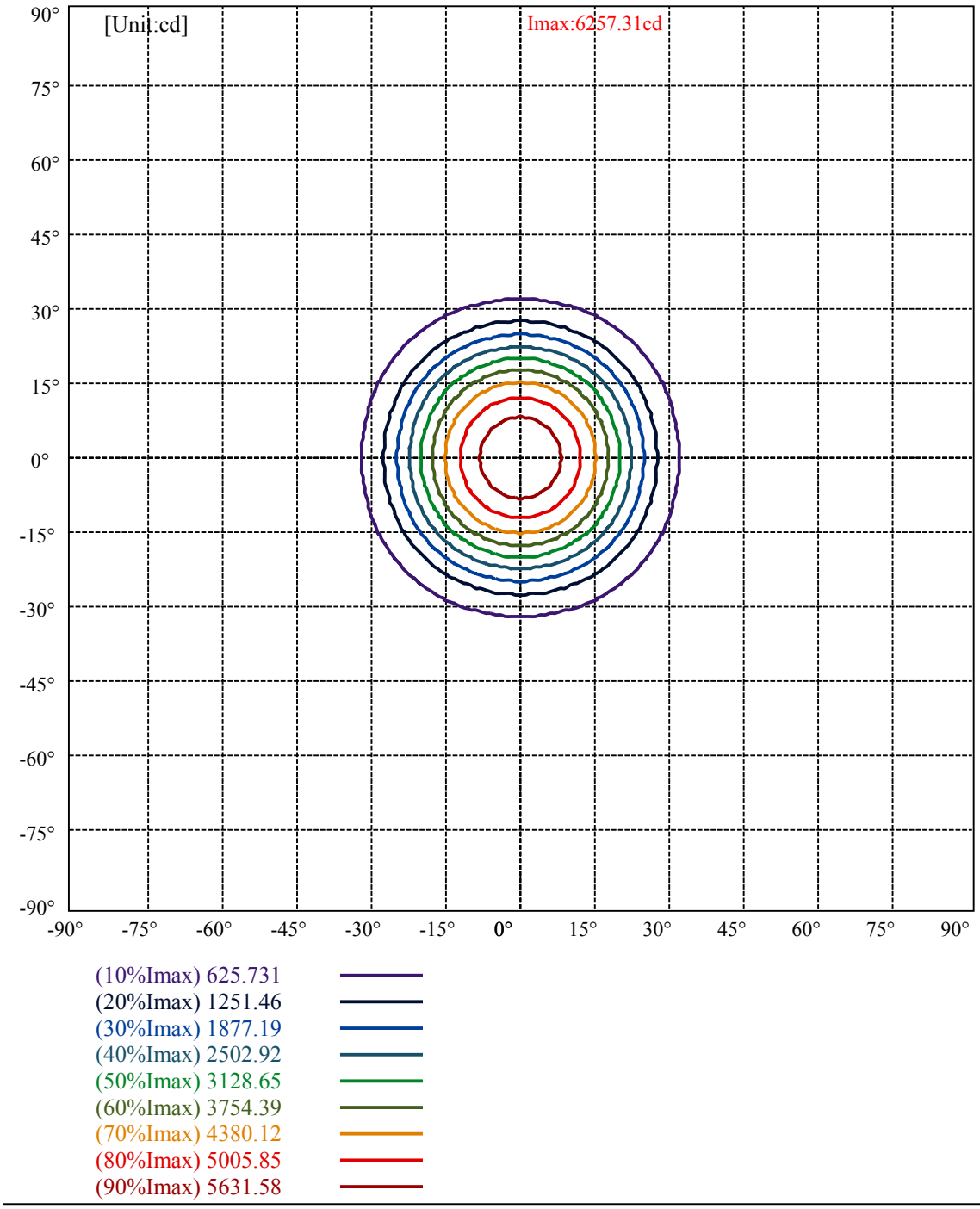
Field angle(10%Imax):C0/180Left:31.6 Right:31.6
:C90/270Left:31.6 Right:31.6

Beam Angle(50%Imax):C0/180Left:19.8 Right:19.8
:C90/270Left:19.8 Right:19.8

Lux distance Curve



ISO-Intensity(V-H)

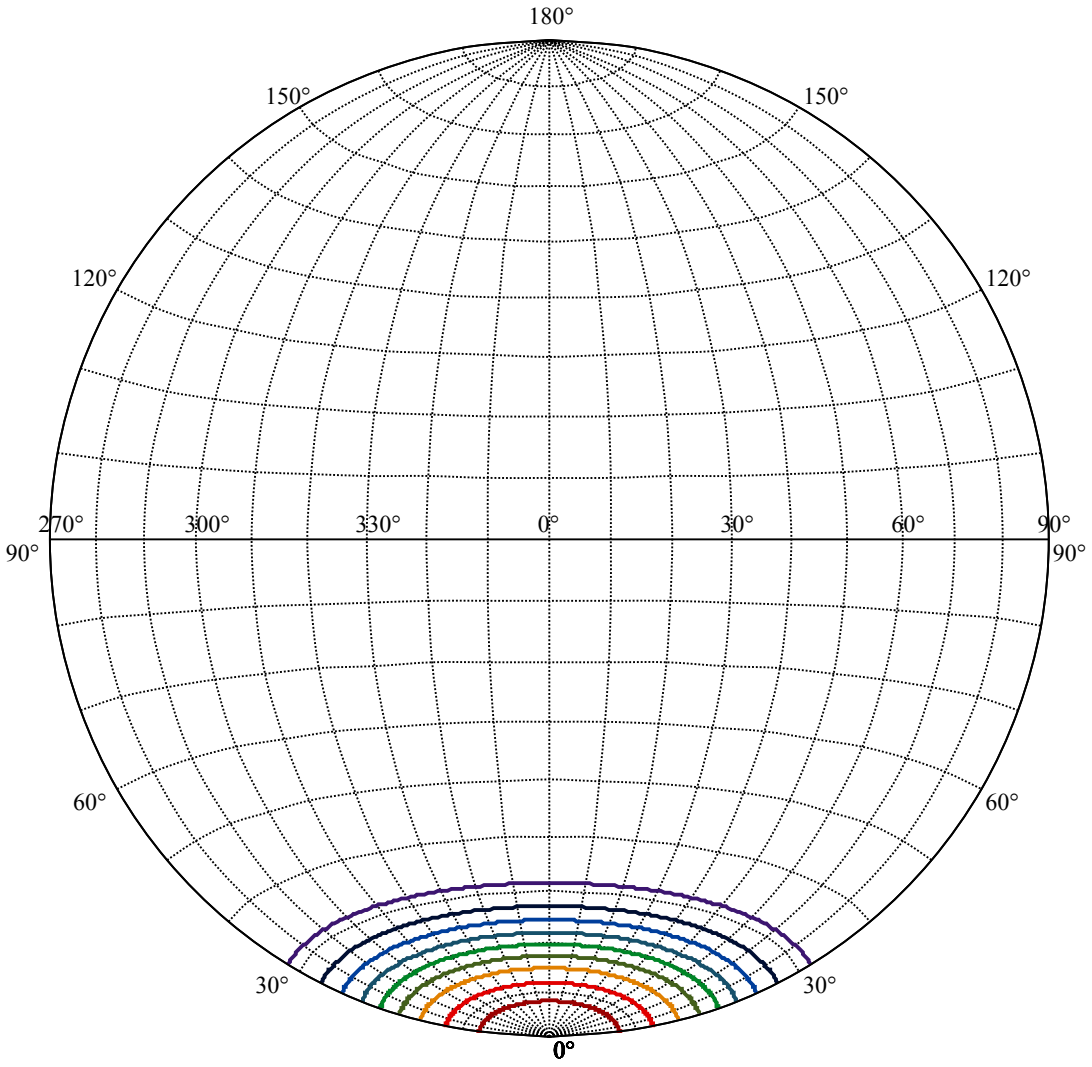


Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



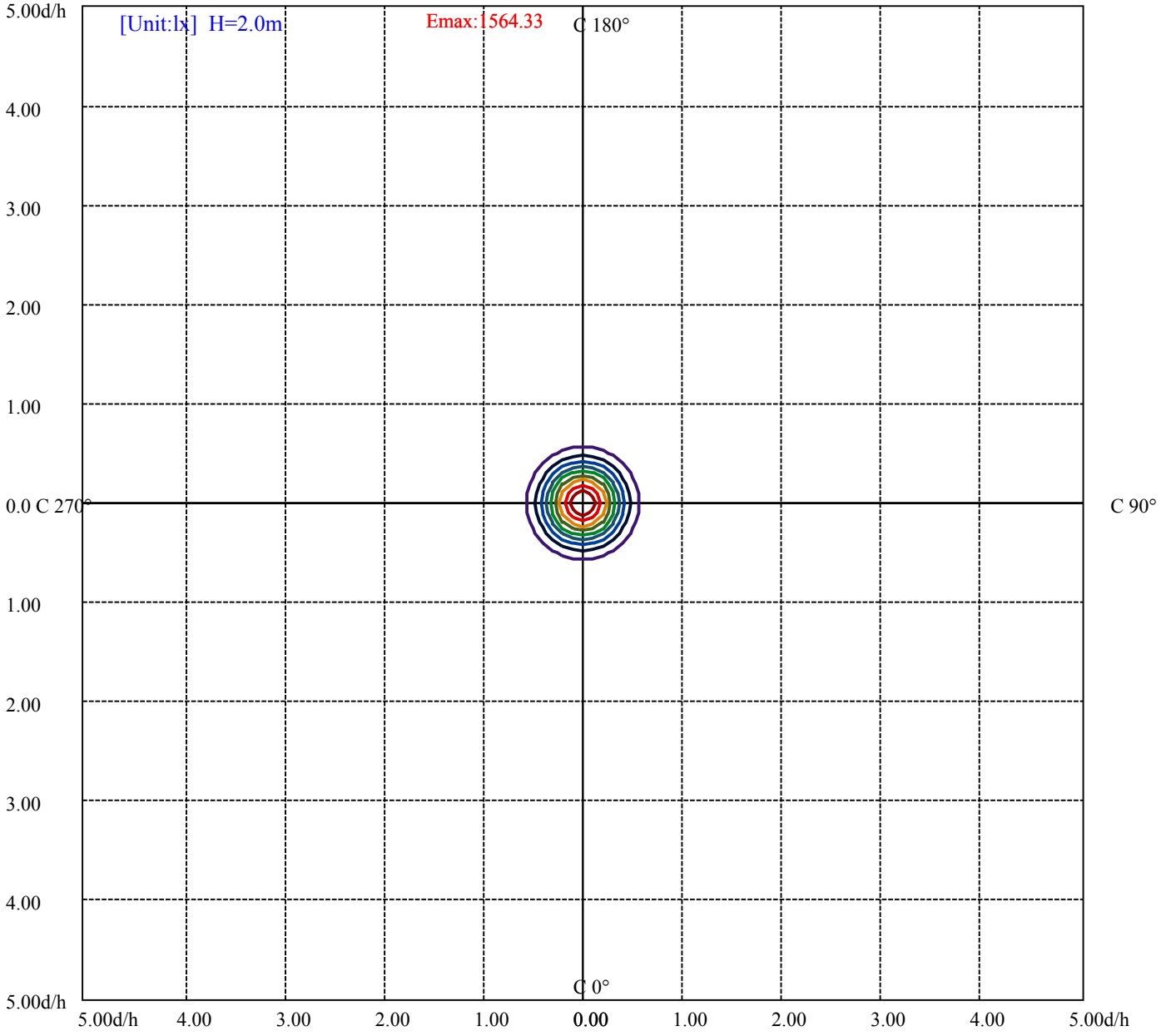
House [Unit:cd] Road

Imax:6257.31

(10%Imax) 625.731
(20%Imax) 1251.46
(30%Imax) 1877.19
(40%Imax) 2502.92
(50%Imax) 3128.65
(60%Imax) 3754.39
(70%Imax) 4380.12
(80%Imax) 5005.85
(90%Imax) 5631.58

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

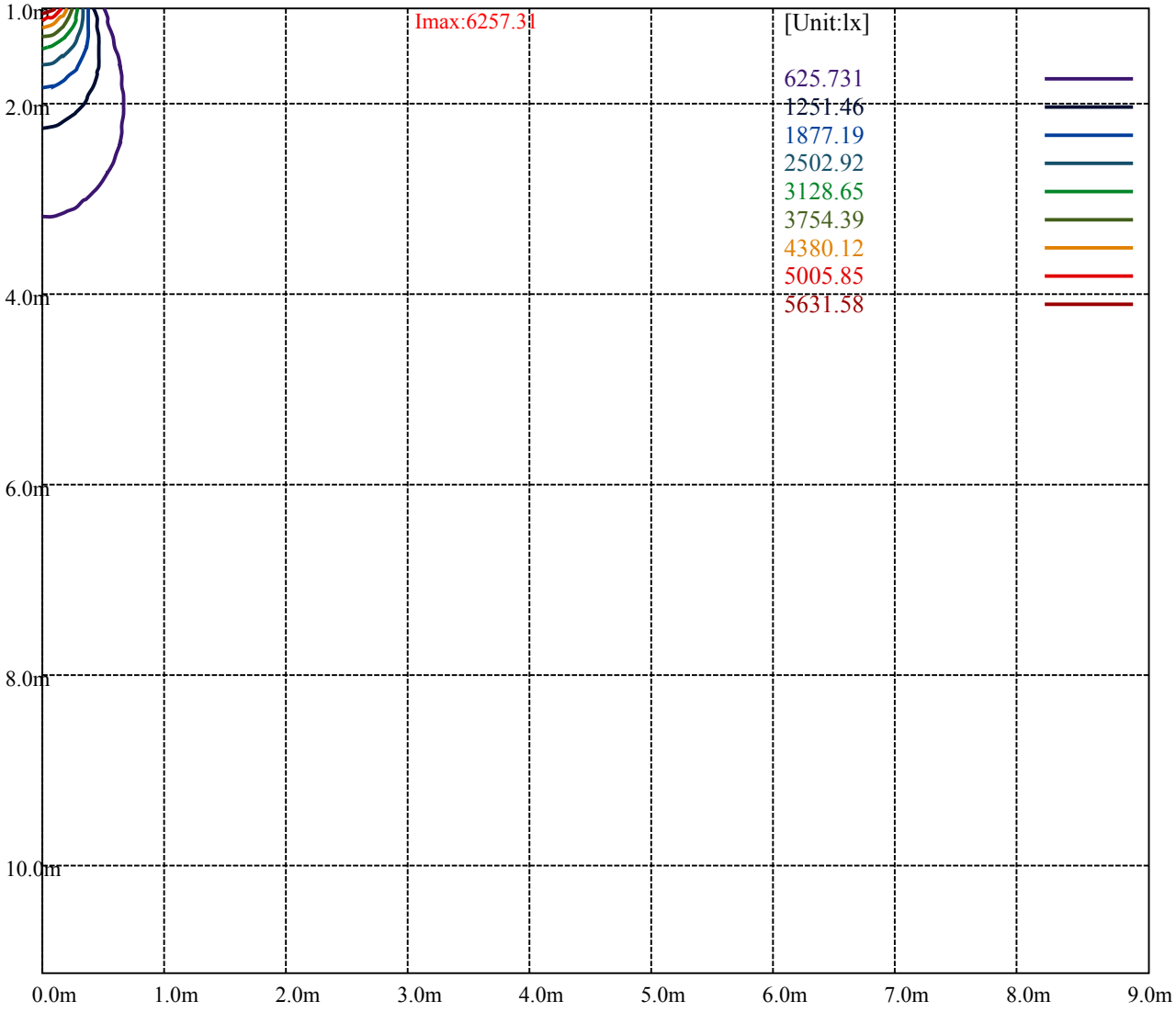
ISO illuminance diagram



(10%Emax) 156.4328
(20%Emax) 312.865
(30%Emax) 469.2975
(40%Emax) 625.73
(50%Emax) 782.1625
(60%Emax) 938.595
(70%Emax) 1095.027
(80%Emax) 1251.463
(90%Emax) 1407.895

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

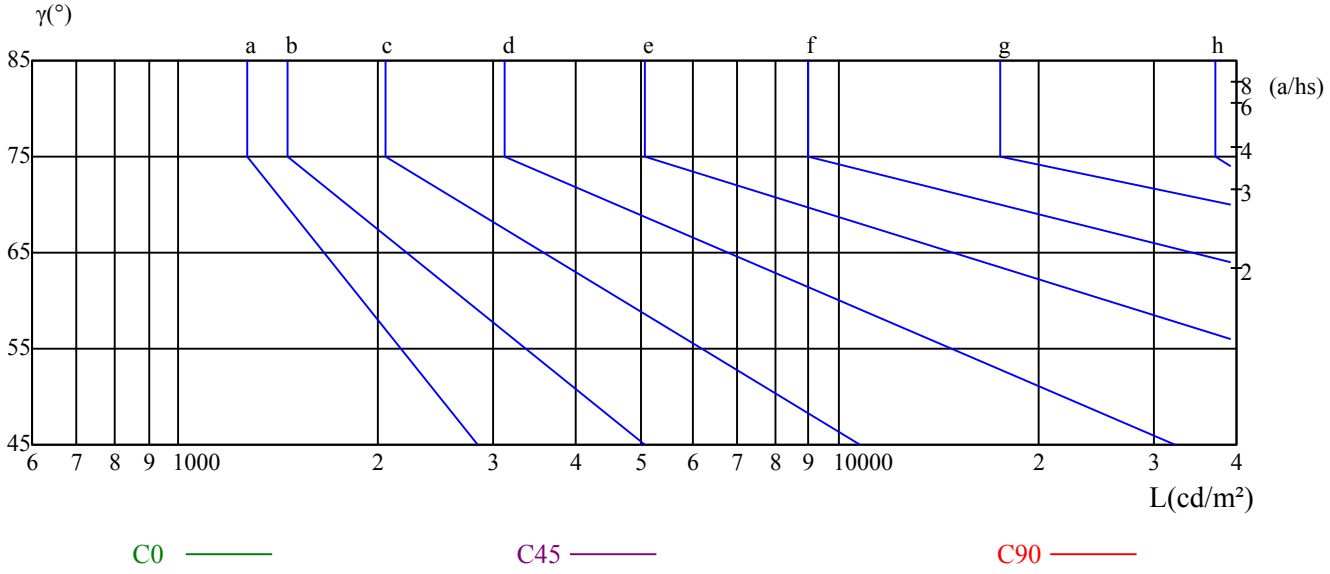
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

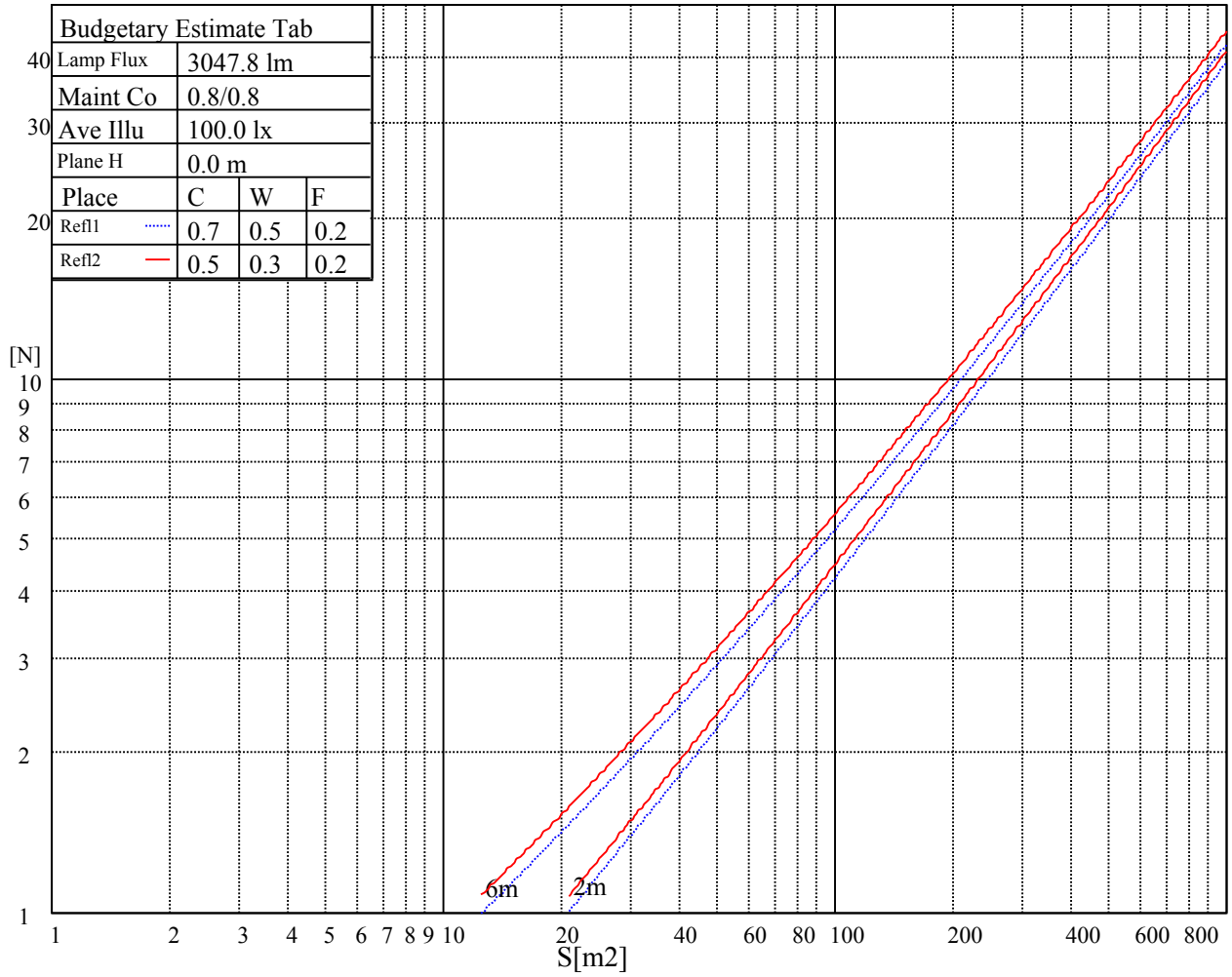


UGR Glare

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

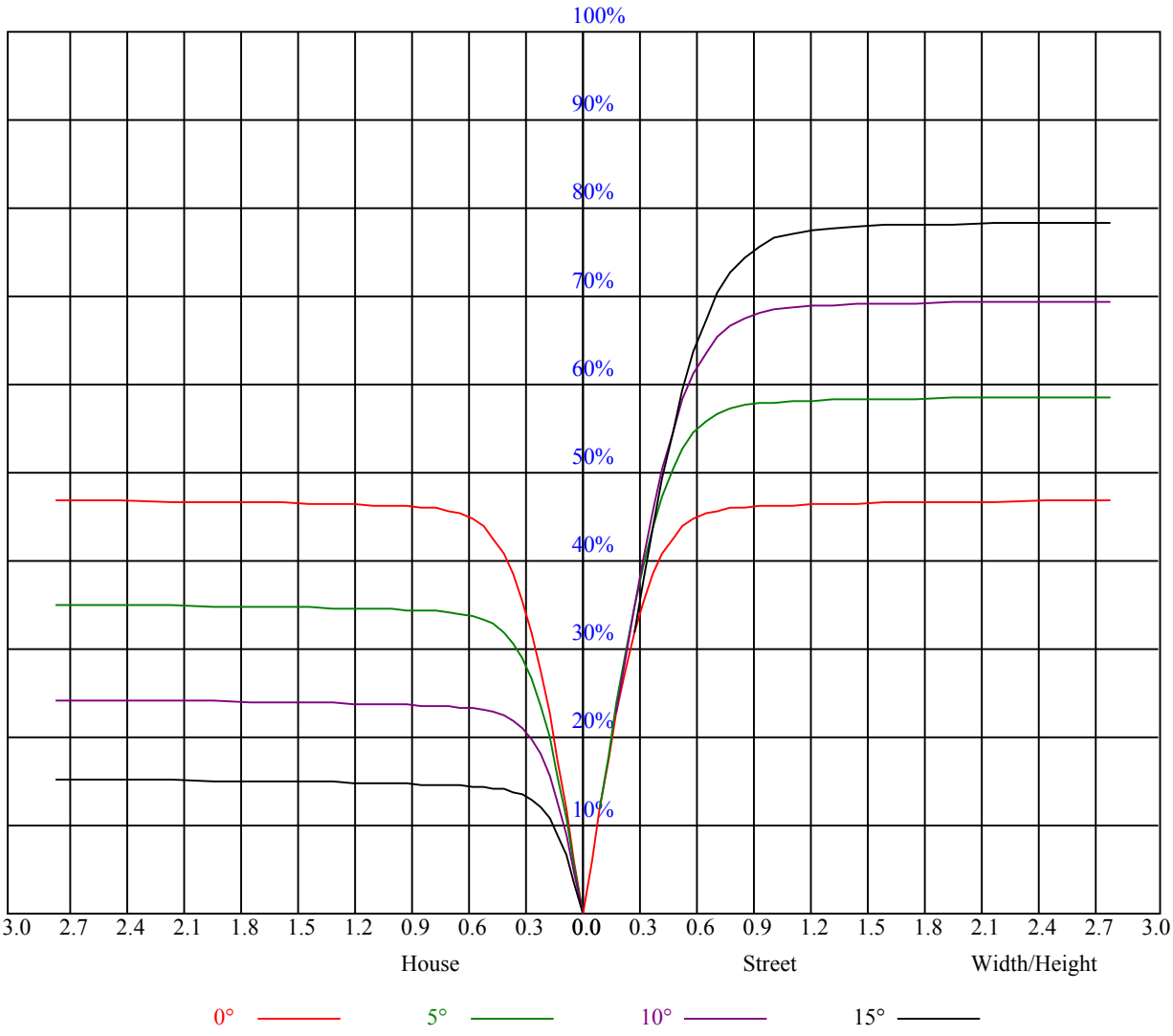


Equipment: GMS1980 Date: 2023/10/11 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.12	1.12	1.12	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.92	0.90	0.88	0.89	0.87	0.86	0.85
3	0.94	0.90	0.86	0.92	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.80
4	0.89	0.84	0.81	0.88	0.84	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
5	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.73
6	0.81	0.76	0.72	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
7	0.77	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
8	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.64
9	0.71	0.66	0.63	0.70	0.66	0.63	0.70	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
10	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.59

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	6210.12	6155.32	6098.31	6012.51	5921.73	5772.83	5642.75	5515.99	5336.09
45.0	6283.19	6229.49	6172.48	6128.20	6040.18	5925.60	5809.91	5664.33	5532.59
90.0	6246.10	6208.46	6171.93	6085.57	5976.53	5888.52	5751.24	5622.82	5491.63
135.0	6289.83	6274.88	6241.12	6213.44	6143.70	6084.47	5997.01	5879.66	5755.11
180.0	6210.12	6266.03	6285.95	6258.28	6249.42	6201.26	6159.20	6054.58	5967.12
225.0	6283.19	6276.54	6258.28	6226.73	6169.16	6109.93	5995.35	5878.00	5755.67
270.0	6246.10	6285.95	6254.40	6226.73	6178.02	6106.06	6021.36	5928.92	5772.27
315.0	6289.83	6227.28	6193.51	6154.21	6071.18	5982.62	5838.14	5703.63	5549.75
360.0	6210.12	6155.32	6098.31	6012.51	5921.73	5772.83	5642.75	5515.99	5336.09

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5185.53	5023.89	4803.59	4618.15	4388.43	4185.29	3968.85	3747.99	3451.85
45.0	5398.64	5245.31	5066.52	4896.03	4713.36	4534.01	4346.92	4085.65	3860.91
90.0	5353.80	5163.38	4995.66	4816.87	4627.56	4381.79	4164.25	3928.44	3631.20
135.0	5621.16	5483.88	5354.35	5144.01	4960.79	4751.55	4533.46	4219.60	3966.09
180.0	5829.84	5719.69	5601.78	5444.58	5235.90	5052.68	4859.49	4632.54	4335.29
225.0	5632.78	5492.74	5291.80	5116.89	4889.94	4687.34	4417.77	4184.18	3926.23
270.0	5639.98	5503.81	5350.48	5130.17	4957.47	4728.86	4537.33	4320.35	4060.19
315.0	5408.60	5243.65	5035.52	4846.76	4651.92	4416.66	4212.41	3989.89	3764.60
360.0	5185.53	5023.89	4803.59	4618.15	4388.43	4185.29	3968.85	3747.99	3451.85

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3205.53	2950.90	2707.90	2415.63	2183.70	1958.41	1743.08	1485.14	1066.44
45.0	3632.30	3330.63	3083.75	2778.75	2541.28	2312.67	2024.28	1789.58	1573.70
90.0	3384.32	3121.94	2787.61	2536.86	2297.17	1999.37	1775.19	1568.17	1080.06
135.0	3705.92	3450.19	3109.21	2833.00	2571.17	2260.09	2023.73	1800.65	1548.79
180.0	4092.29	3825.49	3543.74	3197.78	2916.03	2560.66	2285.55	2066.90	1780.17
225.0	3669.39	3329.52	3057.73	2794.80	2534.09	2221.34	1994.39	1783.49	1591.42
270.0	3840.99	3584.70	3331.73	3019.54	2762.14	2496.45	2260.09	1997.16	1787.37
315.0	3476.76	3224.35	2971.38	2712.88	2399.58	2170.41	1952.32	1694.93	1503.96
360.0	3205.53	2950.90	2707.90	2415.63	2183.70	1958.41	1743.08	1485.14	1066.44

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1066.44	909.13	763.77	606.51	498.68	404.97	326.14	247.15	197.61
45.0	1372.77	1144.16	979.76	830.30	696.90	552.43	453.35	369.21	282.30
90.0	1080.06	1003.73	856.65	691.31	577.01	475.27	389.69	299.63	240.23
135.0	1370.56	1206.15	1018.51	873.48	743.40	627.71	503.72	418.47	343.19
180.0	1592.52	1413.73	1240.47	1052.27	902.26	758.34	638.23	511.47	424.01
225.0	1090.52	1090.52	1012.58	863.13	726.85	577.78	473.99	387.81	296.64
270.0	1580.90	1345.09	1173.50	1011.31	818.13	681.96	536.38	437.85	354.82
315.0	1066.72	1066.72	947.49	797.20	638.12	525.69	430.60	349.23	267.14
360.0	1066.44	909.13	763.77	606.51	498.68	404.97	326.14	247.15	197.61

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	158.03	127.04	97.81	80.26	66.98	55.35	48.99	43.90	39.02
45.0	282.30	214.05	132.79	107.00	86.91	68.86	58.51	51.37	45.89
90.0	192.02	145.41	116.46	94.32	73.79	62.00	53.75	46.55	42.12
135.0	293.37	293.37	160.58	126.21	94.65	76.72	61.17	52.97	47.11
180.0	346.51	280.64	280.64	165.45	123.94	98.70	79.54	62.77	53.80
225.0	237.02	187.81	149.12	119.18	91.22	74.45	62.27	51.87	46.11
270.0	286.18	286.18	167.28	133.68	107.44	83.36	69.52	59.06	50.04
315.0	215.05	172.76	138.61	106.17	86.46	68.53	58.45	51.42	44.84
360.0	158.03	127.04	97.81	80.26	66.98	55.35	48.99	43.90	39.02

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	36.04	33.43	30.78	29.06	27.62	26.35	25.02	24.13	23.41
45.0	40.63	37.36	34.65	32.22	29.67	28.06	26.68	25.19	24.24
90.0	38.69	35.81	32.77	30.78	29.06	27.18	25.91	24.85	23.75
135.0	42.68	38.42	35.65	33.27	31.22	29.12	27.68	26.40	25.30
180.0	47.66	42.12	38.75	35.98	33.65	31.05	29.39	27.90	26.57
225.0	41.85	37.81	35.09	32.27	30.39	28.84	27.34	25.74	24.69
270.0	44.95	40.91	36.98	34.37	32.11	29.78	28.29	26.90	25.68
315.0	40.85	37.75	34.32	32.05	30.17	28.56	26.79	25.63	24.63
360.0	36.04	33.43	30.78	29.06	27.62	26.35	25.02	24.13	23.41

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.69	21.92	21.48	20.87	20.37	19.98	19.48	19.15	18.76
45.0	23.19	22.53	21.86	21.26	20.76	20.20	19.87	19.37	19.04
90.0	22.92	22.25	21.59	20.98	20.48	19.98	19.60	19.26	18.88
135.0	24.13	23.36	22.42	21.86	21.31	20.65	20.20	19.82	19.32
180.0	25.13	24.19	23.14	22.42	21.81	21.09	20.59	20.20	19.76
225.0	23.75	22.92	22.25	21.53	20.98	20.48	19.93	19.54	19.15
270.0	24.47	23.64	22.86	22.25	21.59	21.03	20.54	20.04	19.65
315.0	23.80	22.81	22.20	21.64	21.03	20.59	20.09	19.71	19.37
360.0	22.69	21.92	21.48	20.87	20.37	19.98	19.48	19.15	18.76

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.38	18.05	17.71	17.44	17.10	16.77	16.50	16.22	15.94
45.0	18.71	18.38	18.05	17.71	17.38	17.05	16.77	16.44	16.11
90.0	18.54	18.21	17.88	17.60	17.21	16.94	16.61	16.27	16.05
135.0	18.93	18.65	18.38	17.99	17.66	17.44	17.10	16.77	16.44
180.0	19.32	18.88	18.60	18.32	17.93	17.55	17.33	16.94	16.66
225.0	18.76	18.43	18.10	17.77	17.49	17.16	16.83	16.55	16.27
270.0	19.15	18.82	18.49	18.21	17.77	17.44	17.16	16.88	16.50
315.0	18.99	18.60	18.27	17.93	17.60	17.21	16.88	16.61	16.33
360.0	18.38	18.05	17.71	17.44	17.10	16.77	16.50	16.22	15.94

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.67	15.44	15.22	15.00	14.72	14.45	14.17	13.95	13.62
45.0	15.89	15.61	15.33	15.11	14.95	14.67	14.34	14.17	13.95
90.0	15.67	15.44	15.28	15.06	14.72	14.50	14.23	14.00	13.67
135.0	16.22	15.89	15.67	15.39	15.17	14.89	14.67	14.28	14.12
180.0	16.38	16.05	15.78	15.50	15.33	15.06	14.83	14.50	14.23
225.0	16.00	15.67	15.50	15.22	15.00	14.67	14.39	14.12	13.89
270.0	16.27	16.00	15.78	15.39	15.22	14.95	14.72	14.39	14.12
315.0	16.05	15.78	15.50	15.28	15.00	14.67	14.45	14.17	13.95
360.0	15.67	15.44	15.22	15.00	14.72	14.45	14.17	13.95	13.62

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.40	13.12	12.90	12.62	12.51	12.34	12.18	11.96	11.96
45.0	13.67	13.40	13.12	12.90	12.68	12.45	12.29	12.12	11.96
90.0	13.51	13.28	12.95	12.84	12.62	12.40	12.29	12.12	12.01
135.0	13.84	13.51	13.23	13.01	12.79	12.62	12.40	12.23	12.01
180.0	14.00	13.67	13.40	13.12	12.84	12.68	12.45	12.29	12.12
225.0	13.56	13.40	13.06	12.84	12.62	12.45	12.29	12.12	11.96
270.0	13.89	13.62	13.34	13.12	12.84	12.68	12.45	12.29	12.12
315.0	13.62	13.34	13.17	12.90	12.68	12.57	12.29	12.18	12.01
360.0	13.40	13.12	12.90	12.62	12.51	12.34	12.18	11.96	11.96

Intensity data(cd)

C/γ(°)	90.0
0.0	11.96
45.0	11.90
90.0	11.96
135.0	12.07
180.0	11.90
225.0	11.90
270.0	11.96
315.0	11.96
360.0	11.96