ZhongShan HaoXiang Lighting CO.,LTD
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Tel:+86-760-22253325 Fax:+86-760-22287069
Address:12 Wanfu Road Xinglong industrial area,Jiu Zhou ji,Xiaolan town,Zhongshan City,China.

HX-DA614R.01

LumCAT: HX-DA614R.01
Report No:
Test No:
LampCAT: ZX-S6131 D72-2835-12CX4B
Lamp flux(lm): 1878.0
Number of Lamps: 1
Length(mm): -970
Phm Type: C

Luminaire:
Voltage(V): 220.800
Current(A): 0.064
Power (W): 13.600
PF: 0.954
Ballast type: LS-16-350LI1
Width(mm): -970
Height(mm): 0

Photometric Results

Lumens(lm): 590.65
Efficiency(%): 31.45%
Lumens(lm)/Power(W): 43.43
Central intensity(cd): 246.717
Maximum intensity(cd): 250.629
Angle of maximum intensity: C=30.0 γ=1.0
Beam Angle(50%Imax): [H]Left=53.1 Right=49.6
[V]Left=53.6 Right=48.9
Field angle(10%Imax): [H]Left=71.7 Right=68.2
[V]Left=72.3 Right=67.8
Maximum s/h: C0_180=1.27 C90_270=1.27
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 31.45%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 89.918%

Equipment: GMS-1980
Temperature(°C): 25.0
Date: 2022-11-21
Humidity(%): 65.3%
Operator: Lxl
Distance(m): 7.27

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	248.048	.000	.000	.000%	.000%
1.0	248.030	.237	.237	.013%	.013%
2.0	247.911	.712	.949	.038%	.051%
3.0	247.704	1.185	2.135	.063%	.114%
4.0	247.413	1.657	3.792	.088%	.202%
5.0	247.048	2.127	5.919	.113%	.315%
6.0	246.625	2.594	8.513	.138%	.453%
7.0	246.092	3.058	11.572	.163%	.616%
8.0	245.467	3.518	15.090	.187%	.803%
9.0	244.819	3.973	19.063	.212%	1.015%
10.0	244.062	4.424	23.487	.236%	1.251%
11.0	243.229	4.869	28.356	.259%	1.510%
12.0	242.335	5.308	33.664	.283%	1.793%
13.0	241.348	5.740	39.404	.306%	2.098%
14.0	240.362	6.166	45.570	.328%	2.427%
15.0	239.221	6.584	52.154	.351%	2.777%
16.0	238.080	6.994	59.148	.372%	3.150%
17.0	236.706	7.394	66.542	.394%	3.543%
18.0	235.350	7.783	74.325	.414%	3.958%
19.0	233.821	8.163	82.487	.435%	4.392%
20.0	232.337	8.532	91.019	.454%	4.847%
21.0	230.699	8.891	99.911	.473%	5.320%
22.0	229.417	9.246	109.157	.492%	5.812%
23.0	228.144	9.601	118.758	.511%	6.324%
24.0	226.061	9.931	128.688	.529%	6.852%
25.0	223.740	10.227	138.916	.545%	7.397%
26.0	221.423	10.508	149.424	.560%	7.957%
27.0	218.939	10.774	160.197	.574%	8.530%
28.0	216.455	11.023	171.221	.587%	9.117%
29.0	213.940	11.260	182.481	.600%	9.717%
30.0	211.200	11.479	193.960	.611%	10.328%
31.0	208.487	11.679	205.639	.622%	10.950%
32.0	205.637	11.864	217.503	.632%	11.582%
33.0	202.832	12.034	229.537	.641%	12.222%
34.0	199.766	12.184	241.721	.649%	12.871%
35.0	196.626	12.310	254.031	.656%	13.527%
36.0	193.424	12.419	266.450	.661%	14.188%
37.0	190.006	12.505	278.956	.666%	14.854%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	186.540	12.569	291.524	.669%	15.523%
39.0	182.616	12.600	304.125	.671%	16.194%
40.0	178.801	12.605	316.730	.671%	16.865%
41.0	174.410	12.578	329.307	.670%	17.535%
42.0	170.270	12.523	341.830	.667%	18.202%
43.0	165.676	12.444	354.275	.663%	18.864%
44.0	161.334	12.342	366.617	.657%	19.522%
45.0	156.546	12.216	378.833	.651%	20.172%
46.0	151.952	12.065	390.898	.642%	20.815%
47.0	147.076	11.893	402.791	.633%	21.448%
48.0	142.139	11.692	414.483	.623%	22.070%
49.0	137.167	11.470	425.953	.611%	22.681%
50.0	131.939	11.220	437.172	.597%	23.279%
51.0	126.821	10.948	448.120	.583%	23.862%
52.0	121.412	10.652	458.772	.567%	24.429%
53.0	116.259	10.339	469.111	.551%	24.979%
54.0	110.727	10.005	479.115	.533%	25.512%
55.0	105.490	9.652	488.767	.514%	26.026%
56.0	99.817	9.277	498.044	.494%	26.520%
57.0	94.519	8.885	506.929	.473%	26.993%
58.0	88.934	8.483	515.413	.452%	27.445%
59.0	83.481	8.061	523.473	.429%	27.874%
60.0	77.954	7.627	531.100	.406%	28.280%
61.0	72.431	7.177	538.277	.382%	28.662%
62.0	67.048	6.721	544.998	.358%	29.020%
63.0	61.353	6.245	551.243	.333%	29.353%
64.0	56.059	5.761	557.004	.307%	29.659%
65.0	50.576	5.277	562.281	.281%	29.940%
66.0	45.476	4.792	567.074	.255%	30.196%
67.0	40.001	4.298	571.372	.229%	30.424%
68.0	34.945	3.796	575.168	.202%	30.627%
69.0	29.840	3.305	578.473	.176%	30.803%
70.0	24.925	2.813	581.286	.150%	30.952%
71.0	20.111	2.328	583.613	.124%	31.076%
72.0	15.614	1.858	585.471	.099%	31.175%
73.0	11.588	1.422	586.893	.076%	31.251%
74.0	7.800	1.019	587.913	.054%	31.305%
75.0	4.722	.662	588.574	.035%	31.340%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.370	.376	588.951	.020%	31.361%
77.0	1.423	.202	589.153	.011%	31.371%
78.0	1.224	.142	589.295	.008%	31.379%
79.0	1.180	.129	589.424	.007%	31.386%
80.0	1.145	.125	589.549	.007%	31.392%
81.0	1.136	.123	589.673	.007%	31.399%
82.0	1.088	.121	589.793	.006%	31.405%
83.0	1.035	.115	589.909	.006%	31.412%
84.0	1.026	.112	590.021	.006%	31.418%
85.0	.991	.110	590.131	.006%	31.423%
86.0	.965	.107	590.238	.006%	31.429%
87.0	.947	.105	590.342	.006%	31.435%
88.0	.934	.103	590.445	.005%	31.440%
89.0	.916	.101	590.547	.005%	31.446%
90.0	.925	.101	590.648	.005%	31.451%

Zonal flux distribution table

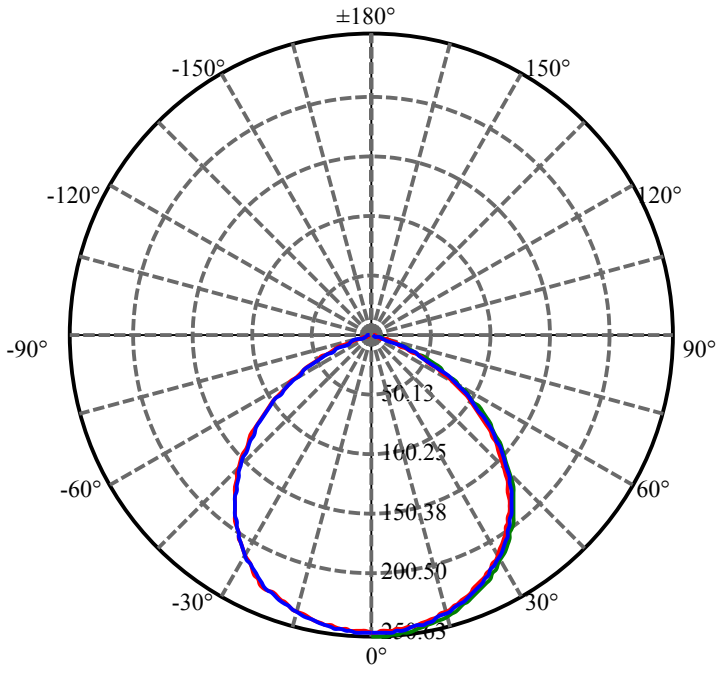
ZONAL LUMEN SUMMARY

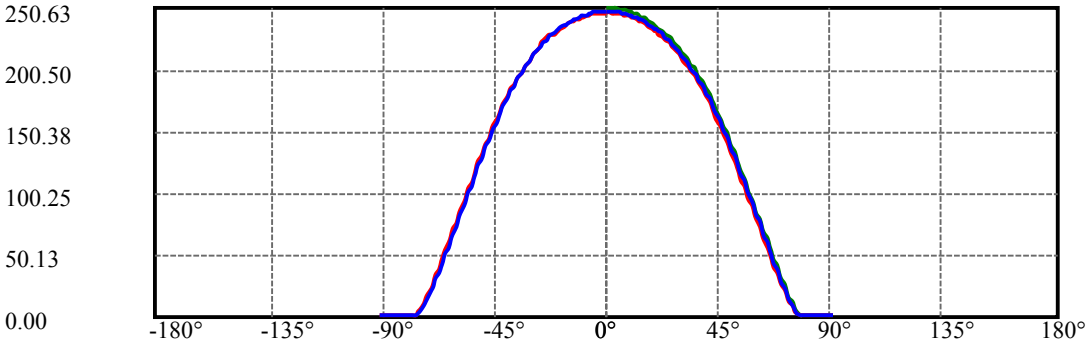
Zone	Lumens	%Lamp	%Fixt
0-30	193.96	10.33%	32.84%
0-40	316.73	16.87%	53.62%
0-60	531.10	28.28%	89.92%
0-90	590.55	31.45%	99.98%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-180	590.65	31.45%	100.00%

ZONAL LUMEN SUMMARY

0-10	23.49
10-20	67.53
20-30	102.94
30-40	122.77
40-50	120.44
50-60	93.93
60-70	50.19
70-80	8.26
80-90	1.00
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]



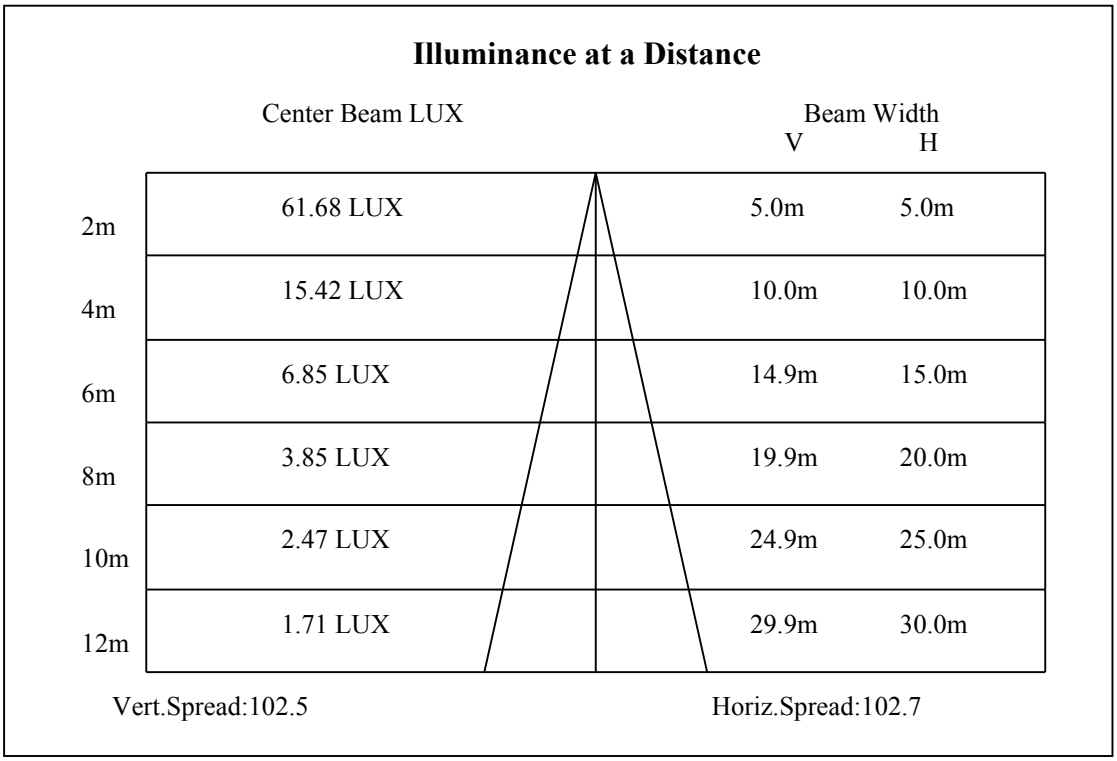


C30(Max):

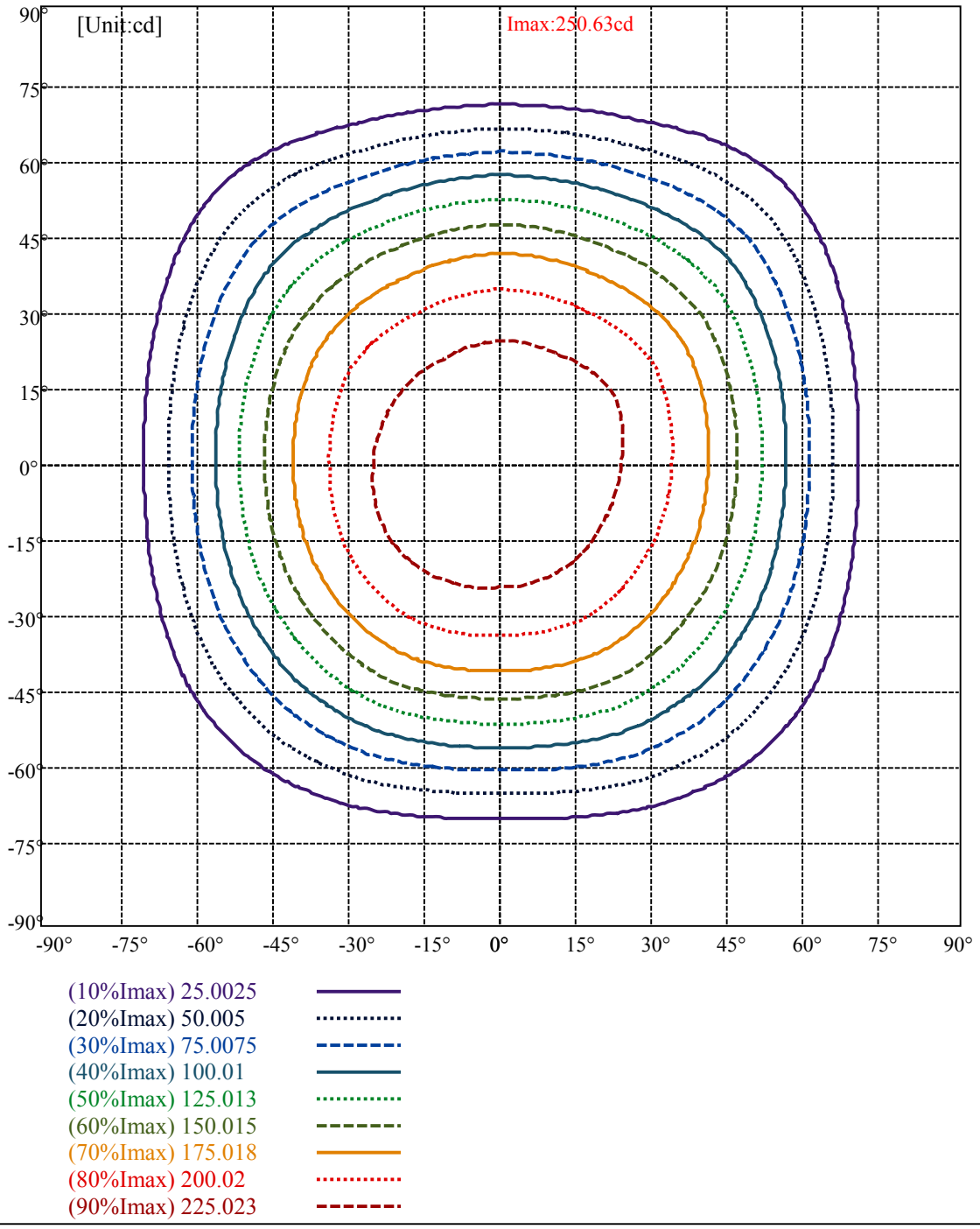
C0/C180:

C90/C270:

Lux distance Curve



ISO-Intensity(V-H)

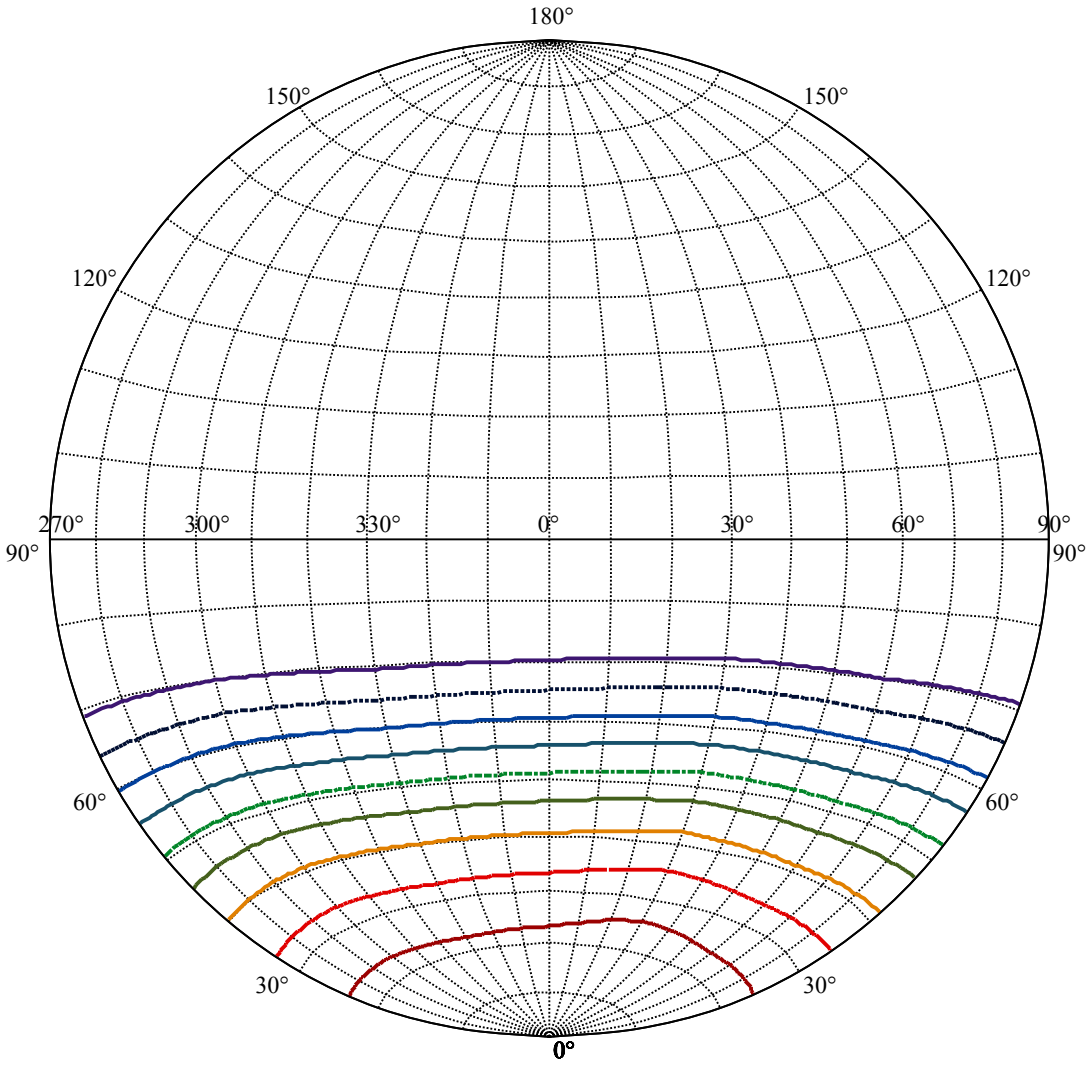


Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2022-11-21
Humidity(%): 65.3%

Operator: Lxl
Distance(m): 7.27

ISO candela diagram on circular web



Imax:250.63cd

(10%Imax) 25.0628
(20%Imax) 50.1257
(30%Imax) 75.1885
(40%Imax) 100.251
(50%Imax) 125.314
(60%Imax) 150.377
(70%Imax) 175.44
(80%Imax) 200.503
(90%Imax) 225.566

Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2022-11-21
Humidity(%): 65.3%

Operator: Lxl
Distance(m): 7.27

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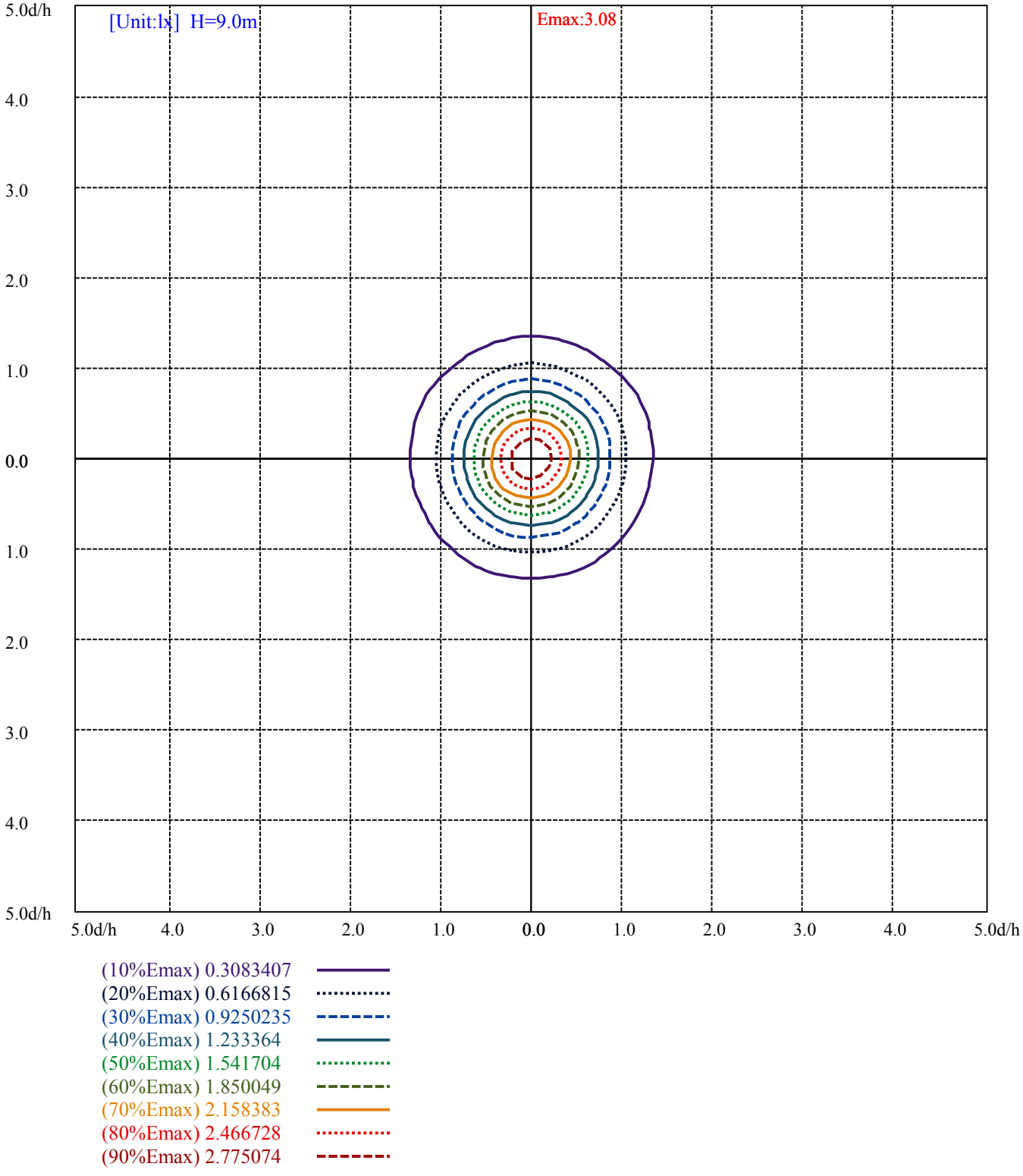
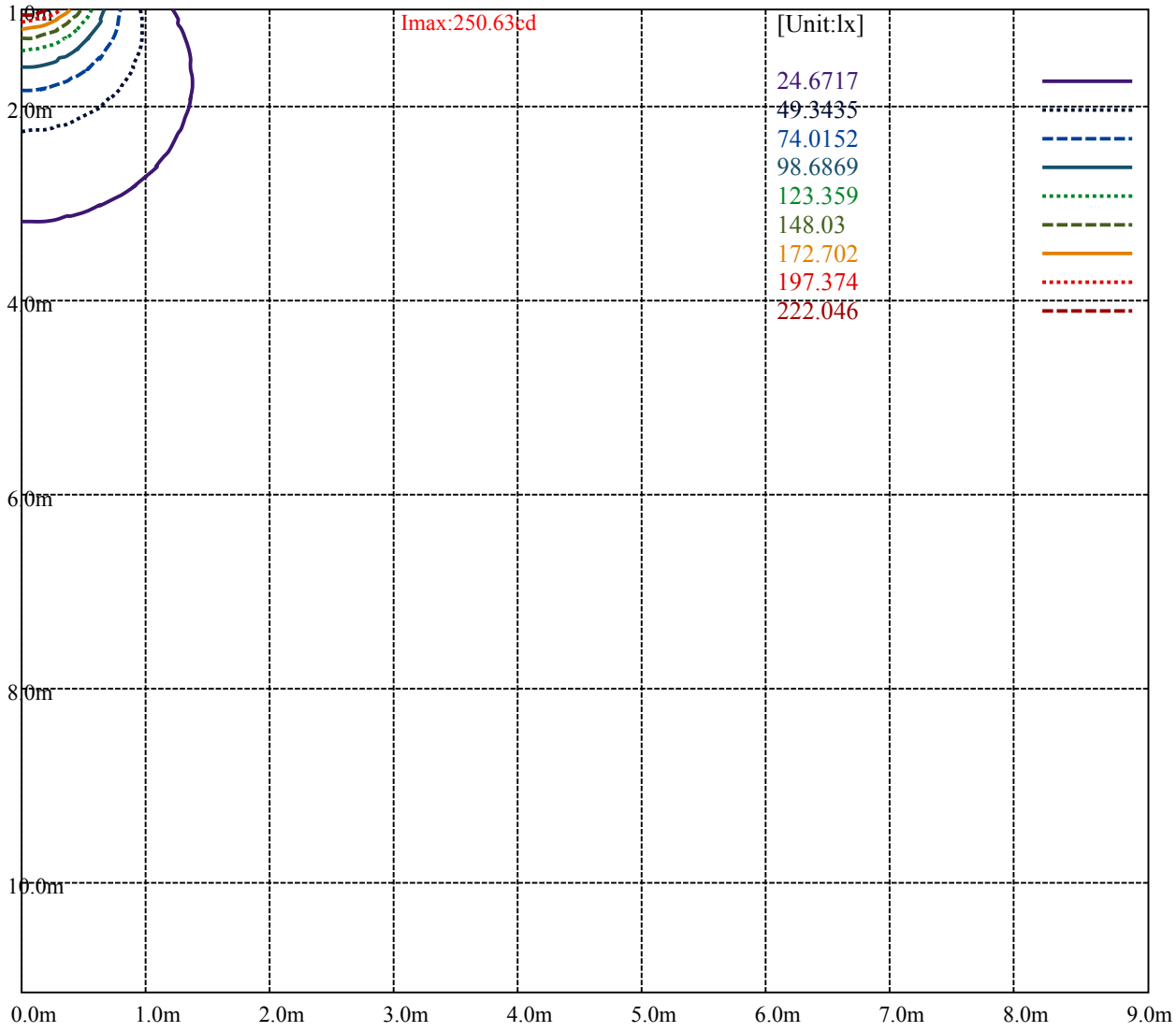
ISO illuminance diagram



Equipment: GMS-1980 Date: 2022-11-21 Operator: Lxl
Temperature(°C): 25.0 Humidity(%): 65.3% Distance(m): 7.27

Space ISO Lux diagram



Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2022-11-21
Humidity(%): 65.3%

Operator: Lxl
Distance(m): 7.27

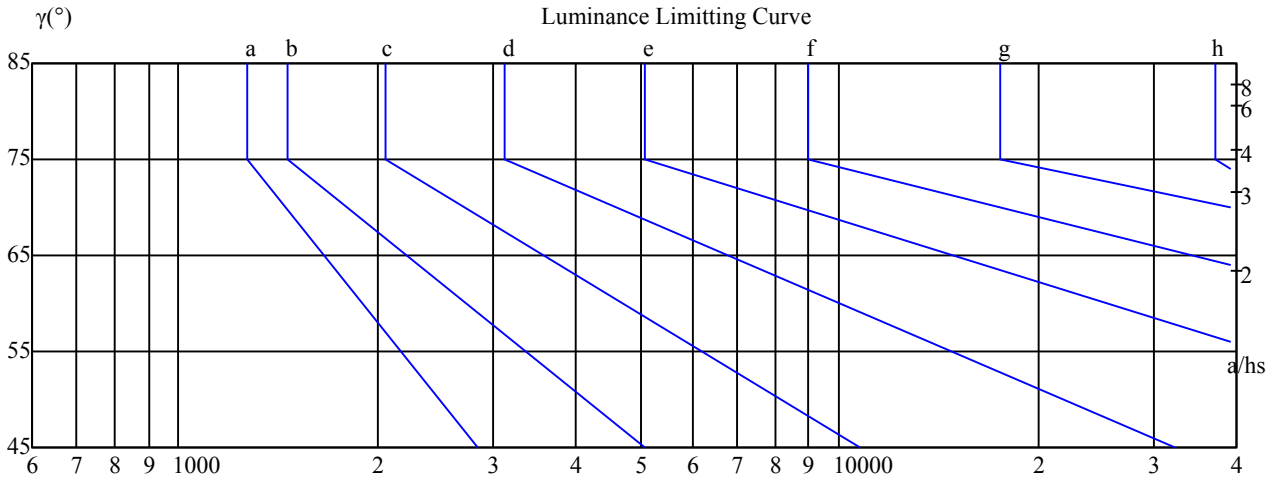
Luminance Limitting Curve(no luminous side)

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	299	277	249	213	164	103	27	9	15
C45	0	0	0	0	0	0	0	0	0
C90	306	286	260	224	177	113	34	9	15

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



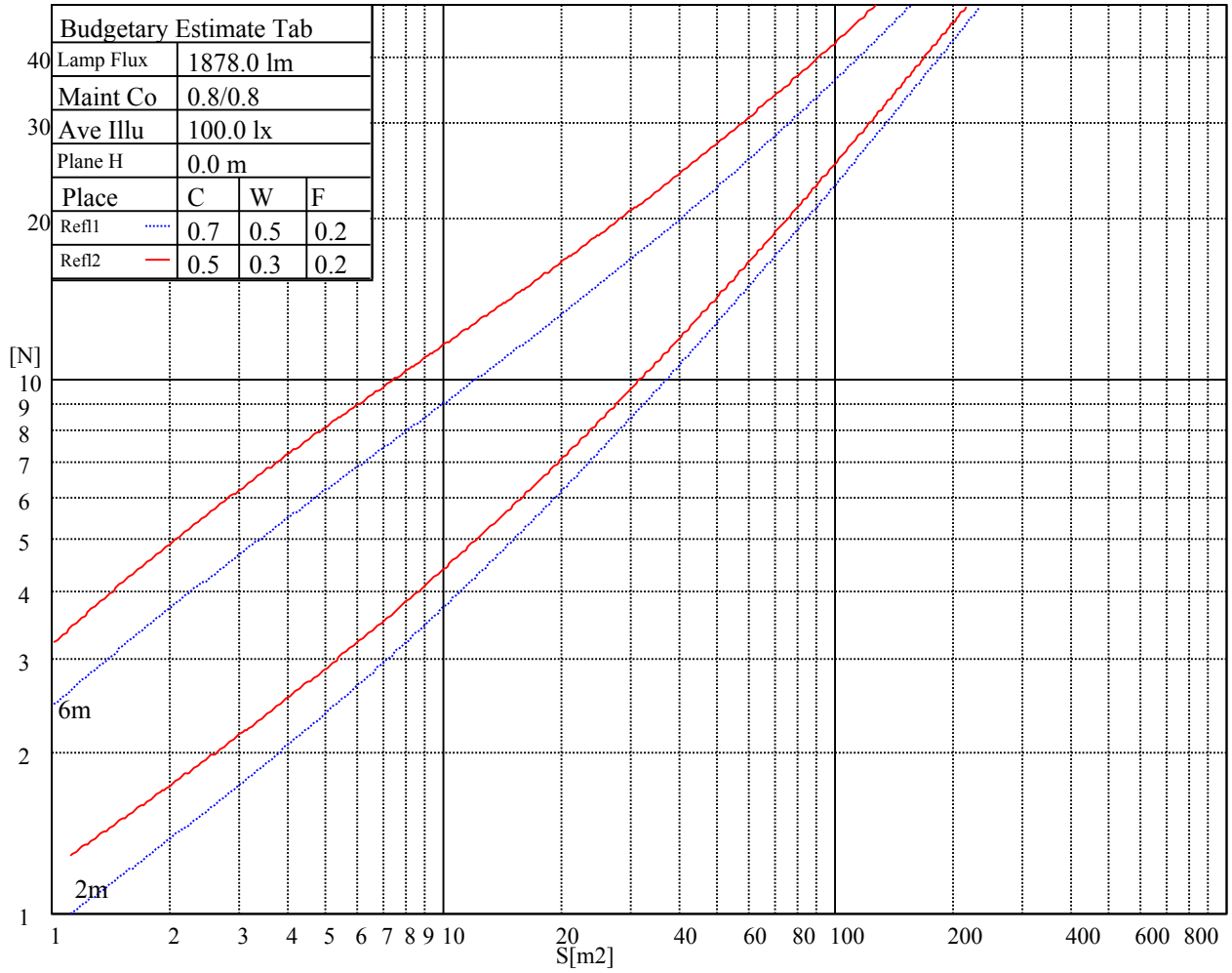
Equipment: GMS-1980
Temperature(°C): 25.0
Date: 2022-11-21
Humidity(%): 65.3%
Operator: Lxl
Distance(m): 7.27

UGR Glare

Illuminatin assessment acconding 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	5.7	7.0	6.0	7.2	7.4	5.7	6.9	5.9	7.1	7.4
	3H	6.3	7.4	6.6	7.7	8.0	6.2	7.4	6.6	7.6	7.9
	4H	6.2	7.1	6.5	7.4	7.7	6.1	7.0	6.5	7.4	7.7
	6H	6.2	7.1	6.5	7.4	7.7	6.1	7.0	6.5	7.4	7.7
	8H	6.2	7.1	6.5	7.4	7.7	6.1	7.0	6.5	7.4	7.7
	12H	6.0	6.7	6.4	7.1	7.5	5.9	6.6	6.4	7.0	7.4
4H	2H	6.0	6.9	6.3	7.2	7.5	5.9	6.8	6.3	7.2	7.5
	3H	6.6	7.3	7.1	7.7	8.1	6.5	7.2	7.0	7.6	8.0
	4H	6.7	7.4	7.1	7.8	8.2	6.6	7.3	7.0	7.7	8.1
	6H	6.7	7.4	7.1	7.8	8.2	6.6	7.3	7.0	7.7	8.1
	8H	6.6	6.9	7.0	7.4	7.9	6.5	6.8	6.9	7.3	7.8
	12H	6.6	6.9	7.1	7.4	7.9	6.5	6.8	7.0	7.3	7.8
8H	4H	6.6	7.0	7.1	7.4	7.9	6.5	6.9	7.0	7.3	7.9
	6H	6.6	7.0	7.1	7.4	8.0	6.5	6.9	7.0	7.4	7.9
	8H	6.6	7.0	7.1	7.4	8.0	6.5	6.9	7.0	7.4	7.9
	12H	6.6	7.0	7.1	7.5	8.0	6.5	6.9	7.0	7.4	7.9
12H	4H	6.6	7.0	7.1	7.4	7.9	6.5	6.9	7.0	7.3	7.9
	6H	6.6	7.0	7.1	7.4	8.0	6.5	6.9	7.0	7.4	7.9
	8H	6.6	7.0	7.1	7.5	8.0	6.5	6.9	7.0	7.4	7.9
Variation with the observer position at spacings:											
S = 1.0H		0.6/-0.5					0.6/-0.5				
S = 1.5H		0.7/-1.7					0.7/-1.5				
S = 2.0H		2.5/-3.1					2.6/-3.1				
Standard tables:		BK2					BK2				
Uncorrected UGR		-14.9					-15.0				
According 1000lm											

Equipment: GMS-1980 Date: 2022-11-21 Operator: Lxl
Temperature(°C): 25.0 Humidity(%): 65.3% Distance(m): 7.27

Budgetary Estimate Table

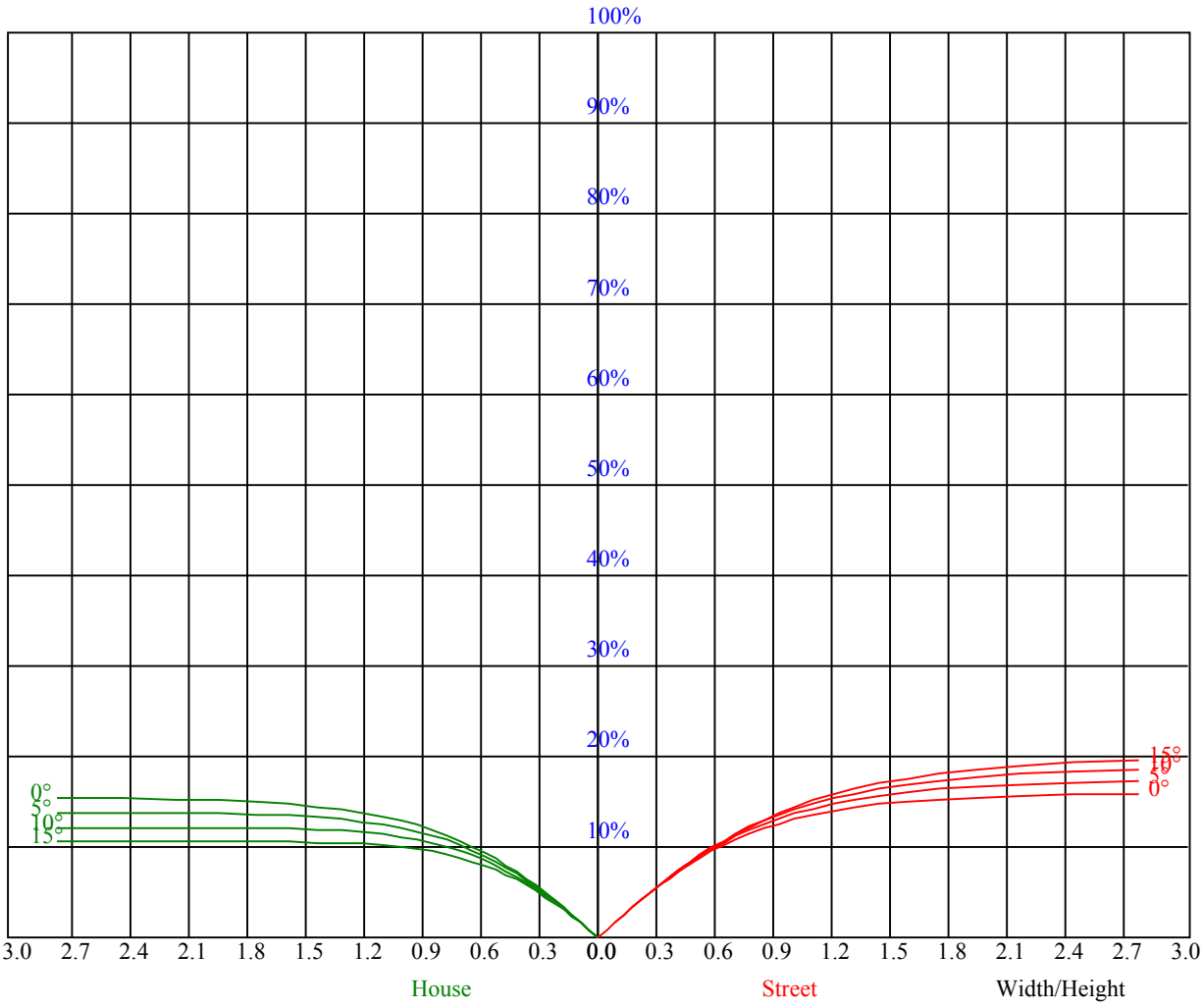


Equipment: GMS-1980 Date: 2022-11-21 Operator: Lxl
Temperature(°C): 25.0 Humidity(%): 65.3% Distance(m): 7.27

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	0.37	0.37	0.37	0.37	0.37	0.37	0.35	0.35	0.35	0.33	0.33	0.33	0.32	0.32	0.32	0.31
1	0.34	0.33	0.32	0.33	0.32	0.31	0.32	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28
2	0.30	0.28	0.26	0.29	0.28	0.26	0.28	0.27	0.26	0.27	0.26	0.25	0.26	0.25	0.24	0.24
3	0.27	0.24	0.23	0.26	0.24	0.22	0.25	0.23	0.22	0.24	0.23	0.22	0.24	0.22	0.21	0.21
4	0.24	0.21	0.19	0.23	0.21	0.19	0.23	0.21	0.19	0.22	0.20	0.19	0.21	0.20	0.19	0.18
5	0.21	0.19	0.17	0.21	0.19	0.17	0.20	0.18	0.17	0.20	0.18	0.16	0.19	0.18	0.16	0.16
6	0.19	0.17	0.15	0.19	0.17	0.15	0.18	0.16	0.15	0.18	0.16	0.15	0.17	0.16	0.14	0.14
7	0.18	0.15	0.13	0.17	0.15	0.13	0.17	0.15	0.13	0.16	0.14	0.13	0.16	0.14	0.13	0.12
8	0.16	0.14	0.12	0.16	0.13	0.12	0.15	0.13	0.12	0.15	0.13	0.12	0.15	0.13	0.12	0.11
9	0.15	0.12	0.11	0.15	0.12	0.11	0.14	0.12	0.11	0.14	0.12	0.11	0.14	0.12	0.10	0.10
10	0.14	0.11	0.10	0.13	0.11	0.10	0.13	0.11	0.10	0.13	0.11	0.10	0.13	0.11	0.10	0.09

Coefficient Utilization Curve



Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2022-11-21
Humidity(%): 65.3%

Operator: Lxl
Distance(m): 7.27

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	246.72	246.77	246.61	246.45	246.19	245.82	245.34	244.87	244.34
30.0	250.58	250.63	250.52	250.31	250.05	249.73	249.41	248.94	248.41
60.0	248.94	248.88	248.83	248.57	248.36	247.99	247.51	246.93	246.29
90.0	247.83	247.88	247.77	247.62	247.35	247.03	246.56	246.08	245.40
120.0	247.30	247.19	247.03	246.82	246.56	246.14	245.71	245.08	244.34
150.0	246.93	246.88	246.82	246.61	246.40	245.98	245.61	245.13	244.39
180.0	246.72	246.66	246.51	246.29	246.03	245.71	245.34	244.81	244.07
210.0	250.58	250.58	250.31	250.15	249.68	249.36	248.99	248.41	247.83
240.0	248.94	248.83	248.78	248.62	248.41	247.93	247.56	246.98	246.51
270.0	247.83	247.88	247.77	247.51	247.14	246.77	246.29	245.71	245.08
300.0	247.30	247.30	247.25	247.03	246.72	246.40	245.92	245.45	244.87
330.0	246.93	246.88	246.72	246.45	246.08	245.71	245.24	244.71	244.07
360.0	246.72	246.77	246.61	246.45	246.19	245.82	245.34	244.87	244.34

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	243.70	243.07	242.22	241.43	240.27	239.21	238.00	236.83	235.46
30.0	247.83	247.03	246.19	245.29	244.39	243.39	242.33	241.17	239.90
60.0	245.61	244.92	244.02	243.12	242.28	241.11	240.01	238.90	237.52
90.0	244.81	244.02	243.23	242.44	241.48	240.59	239.48	238.42	237.10
120.0	243.70	242.75	241.96	241.01	240.01	239.11	238.00	236.89	235.57
150.0	243.76	242.96	242.17	241.33	240.32	239.48	238.42	237.42	236.09
180.0	243.44	242.59	241.80	240.90	239.95	239.00	238.00	236.94	235.46
210.0	247.14	246.35	245.40	244.55	243.55	242.65	241.54	240.22	238.74
240.0	245.71	245.13	244.34	243.55	242.44	241.54	240.38	239.32	237.84
270.0	244.44	243.65	242.81	241.75	240.90	239.85	238.58	237.31	235.99
300.0	244.23	243.55	242.75	241.91	240.85	239.69	238.47	237.42	235.99
330.0	243.44	242.70	241.85	240.75	239.74	238.74	237.47	236.15	234.83
360.0	243.70	243.07	242.22	241.43	240.27	239.21	238.00	236.83	235.46

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	234.19	232.71	231.34	229.59	227.69	226.21	224.31	222.25	220.03
30.0	238.58	237.05	235.51	233.82	232.24	230.39	229.06	227.74	225.15
60.0	236.15	234.77	233.24	231.55	229.75	227.74	226.10	223.88	221.77
90.0	235.72	234.24	232.87	231.23	229.65	227.69	225.89	223.78	221.56
120.0	234.30	232.76	231.23	229.54	227.85	225.84	223.99	221.77	219.82
150.0	234.72	233.24	231.81	230.28	228.69	227.00	224.99	222.93	220.77
180.0	234.14	232.55	231.02	229.38	228.32	228.43	227.80	224.25	222.72
210.0	237.20	235.51	233.93	232.92	233.45	234.93	231.02	227.58	223.83
240.0	236.52	235.04	233.56	231.81	231.07	230.91	227.64	224.84	222.56
270.0	234.56	233.03	231.55	229.86	229.33	227.37	224.62	222.72	220.08
300.0	234.61	233.13	231.71	229.91	228.11	226.37	224.47	222.46	220.13
330.0	233.50	231.81	230.28	228.48	226.84	224.84	222.83	220.66	218.65
360.0	234.19	232.71	231.34	229.59	227.69	226.21	224.31	222.25	220.03

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	217.70	215.27	212.73	209.98	207.55	204.70	202.00	198.89	195.56
30.0	222.25	219.97	217.44	215.22	212.68	209.93	207.34	204.38	201.63
60.0	219.50	217.23	214.58	211.94	209.35	206.34	203.59	200.37	197.19
90.0	219.45	217.12	214.95	212.36	209.56	206.76	204.17	201.48	198.41
120.0	217.38	214.85	212.63	209.93	207.34	204.28	201.58	198.41	195.13
150.0	218.55	216.64	215.01	211.94	208.77	206.07	203.38	201.11	198.20
180.0	218.71	215.38	212.57	209.77	207.24	204.22	201.11	198.25	195.08
210.0	220.77	218.07	215.06	211.94	208.87	205.76	202.48	199.52	196.14
240.0	221.08	218.12	214.90	211.73	209.72	207.66	204.75	200.63	197.04
270.0	217.49	215.06	213.00	210.25	206.76	203.64	200.79	197.56	194.66
300.0	217.91	215.75	213.10	210.41	207.92	205.12	202.37	199.31	196.08
330.0	216.49	214.00	211.31	208.93	206.07	203.17	200.42	197.30	194.39
360.0	217.70	215.27	212.73	209.98	207.55	204.70	202.00	198.89	195.56

Intensity data(cd)

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	192.60	189.16	185.94	181.97	178.27	173.89	169.66	165.17	161.04
30.0	198.36	195.03	191.96	188.21	184.72	180.49	176.63	172.19	167.44
60.0	194.29	190.90	187.52	183.61	179.91	175.52	170.98	166.43	162.15
90.0	195.56	192.23	188.74	184.88	181.34	177.06	173.25	168.76	164.69
120.0	191.86	188.74	185.36	181.50	177.27	172.83	168.92	164.32	160.14
150.0	194.66	191.17	187.58	183.72	180.12	176.00	172.04	167.49	163.37
180.0	191.70	188.58	185.30	181.34	177.11	172.72	168.71	163.95	159.72
210.0	193.07	189.21	185.14	180.92	176.95	172.30	168.07	163.21	158.82
240.0	193.55	190.43	186.68	183.19	179.22	174.57	170.03	165.48	161.20
270.0	191.27	187.47	183.88	179.65	175.79	171.30	167.17	162.47	157.66
300.0	193.12	189.64	186.25	182.29	178.54	174.26	169.92	165.43	161.25
330.0	191.06	187.52	184.14	180.12	176.37	171.98	167.86	163.21	158.51
360.0	192.60	189.16	185.94	181.97	178.27	173.89	169.66	165.17	161.04

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	156.23	151.85	147.30	142.12	136.84	131.55	126.69	121.35	116.49
30.0	162.58	158.35	153.38	148.83	143.65	138.90	133.61	128.12	123.20
60.0	157.45	153.06	148.20	143.76	138.58	133.30	128.54	123.04	118.13
90.0	160.09	155.33	150.95	145.87	141.33	136.04	130.76	125.42	120.50
120.0	155.39	151.00	146.09	141.01	136.47	131.18	126.42	120.82	115.33
150.0	158.72	153.85	149.42	144.34	139.74	134.51	129.23	124.42	118.87
180.0	154.91	150.47	145.45	140.38	135.73	130.34	125.47	119.87	114.32
210.0	153.70	148.52	143.76	138.47	133.51	127.90	122.30	117.23	111.41
240.0	156.34	151.74	146.61	141.17	136.36	130.86	125.84	120.29	115.33
270.0	152.59	148.15	142.91	138.16	132.87	127.96	122.51	116.96	111.94
300.0	157.03	152.06	146.88	142.28	136.99	131.60	126.74	121.30	116.49
330.0	153.54	149.05	143.97	139.27	133.93	129.12	123.73	118.13	113.11
360.0	156.23	151.85	147.30	142.12	136.84	131.55	126.69	121.35	116.49

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	111.10	105.55	99.84	94.71	89.59	83.82	78.65	72.94	67.23
30.0	117.60	112.63	106.97	101.37	95.72	90.59	84.78	79.60	73.84
60.0	112.58	106.97	101.37	96.30	90.64	85.67	79.91	74.84	69.03
90.0	115.01	110.09	104.44	99.42	93.71	88.00	82.87	77.06	71.93
120.0	110.36	104.81	99.05	94.03	88.32	83.19	77.43	71.72	66.54
150.0	113.26	108.35	102.75	97.73	92.07	86.36	81.23	75.42	70.35
180.0	108.67	103.75	97.99	92.92	87.21	82.24	76.53	70.88	65.85
210.0	105.65	100.47	95.29	89.48	83.56	77.69	72.46	66.59	61.47
240.0	109.83	104.23	98.41	93.13	87.26	81.97	76.11	70.82	65.11
270.0	106.29	101.21	95.35	89.64	84.51	78.65	72.88	67.70	62.58
300.0	110.94	105.34	99.68	94.55	89.37	83.51	78.33	72.57	66.70
330.0	107.45	102.48	96.67	90.96	85.25	80.07	74.26	69.03	63.95
360.0	111.10	105.55	99.84	94.71	89.59	83.82	78.65	72.94	67.23

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	61.52	56.61	51.27	46.46	41.01	36.31	31.08	26.00	21.62
30.0	68.81	63.05	57.35	52.38	46.88	41.91	36.31	31.45	26.16
60.0	63.16	57.98	52.38	47.25	41.49	36.47	30.97	25.69	20.72
90.0	66.12	60.25	55.13	49.52	43.92	38.90	33.98	28.59	23.47
120.0	60.73	55.50	49.89	44.82	39.16	33.56	28.22	23.68	18.82
150.0	64.53	59.41	53.75	48.20	42.60	37.63	32.82	27.48	22.41
180.0	60.15	55.02	49.63	44.66	39.11	33.61	28.43	24.00	19.13
210.0	55.81	50.90	45.40	39.96	35.20	29.91	25.42	20.40	15.75
240.0	59.41	54.39	48.99	44.19	38.64	33.24	28.65	23.68	18.97
270.0	56.82	51.11	45.56	40.59	35.20	30.50	25.42	21.04	16.33
300.0	60.94	55.92	50.53	45.61	40.12	35.31	29.97	24.74	20.30
330.0	58.24	52.59	47.04	42.07	36.68	31.98	26.80	22.36	17.65
360.0	61.52	56.61	51.27	46.46	41.01	36.31	31.08	26.00	21.62

Intensity data(cd)

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.81	12.90	8.72	5.13	2.59	1.37	1.27	1.22	1.22
30.0	20.93	16.12	12.05	8.30	4.81	2.17	1.27	1.27	1.16
60.0	16.33	12.31	8.14	4.60	2.01	1.27	1.16	1.11	1.06
90.0	18.34	14.16	9.83	6.45	3.38	1.59	1.27	1.22	1.22
120.0	14.64	10.31	6.87	3.65	1.48	1.22	1.16	1.11	1.11
150.0	17.55	13.48	9.35	6.08	3.12	1.48	1.16	1.16	1.16
180.0	15.01	10.73	6.82	4.02	1.69	1.22	1.16	1.11	1.06
210.0	11.84	7.88	4.60	2.43	1.43	1.32	1.16	1.22	1.16
240.0	15.01	10.94	7.66	4.44	2.17	1.32	1.27	1.16	1.22
270.0	12.00	8.62	5.29	3.01	1.48	1.37	1.32	1.22	1.11
300.0	15.64	11.89	8.03	4.92	2.59	1.43	1.27	1.22	1.16
330.0	13.27	9.72	6.24	3.65	1.69	1.32	1.22	1.16	1.11
360.0	16.81	12.90	8.72	5.13	2.59	1.37	1.27	1.22	1.22

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	1.22	1.06	1.06	1.00	0.95	0.90	0.90	0.95	0.90
30.0	1.16	1.16	1.06	1.00	1.00	1.06	1.00	0.95	0.95
60.0	1.11	1.11	1.00	1.06	1.00	0.95	0.90	0.90	0.90
90.0	1.11	1.06	1.06	1.06	0.95	0.90	0.95	0.95	0.90
120.0	1.11	1.06	1.00	1.00	1.00	0.95	0.95	0.90	0.95
150.0	1.16	1.06	1.06	1.00	1.00	0.95	0.90	0.95	0.85
180.0	1.11	1.06	1.00	0.95	0.95	0.95	0.95	0.90	0.95
210.0	1.11	1.11	1.00	1.06	1.06	0.95	0.95	0.90	0.90
240.0	1.22	1.11	1.11	1.00	1.00	0.95	0.95	0.95	0.95
270.0	1.06	1.06	1.06	1.00	0.95	1.00	1.00	1.00	0.95
300.0	1.16	1.11	1.00	1.11	1.06	1.06	0.95	0.90	0.95
330.0	1.11	1.11	1.00	1.06	0.95	0.95	0.95	0.95	0.85
360.0	1.22	1.06	1.06	1.00	0.95	0.90	0.90	0.95	0.90

C/γ(°)	90.0
0.0	0.95
30.0	0.90
60.0	1.00
90.0	0.95
120.0	0.90
150.0	0.95
180.0	0.85
210.0	0.90
240.0	0.95
270.0	0.90
300.0	0.90
330.0	0.95
360.0	0.95