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-40090

LumCAT: HX-DA614R-40090
Report No:
Test No:
LampCAT: 2835 12C7B 40090
Lamp flux(lm): 1521.0
Number of Lamps: 1
Length(mm): -105
Phm Type: C

Luminaire: HX-DA614R
Voltage(V): 230.800
Current(A): 0.060
Power (W): 13.200
PF: 0.943
Ballast type: LS-16-350 LI1 16/220-240/350CS
Width(mm): -105
Height(mm): 0

Photometric Results

Lumens(lm): 1009.31
Efficiency(%): 66.36%
Lumens(lm)/Power(W): 76.46
Central intensity(cd): 457.389
Maximum intensity(cd): 462.304
Angle of maximum intensity: C=210.0 γ=1.0
Beam Angle(50%Imax): [H]Left=44.9 Right=48.5
[V]Left=45.0 Right=47.9
Field angle(10%Imax): [H]Left=69.3 Right=73.7
[V]Left=69.9 Right=73.3
Maximum s/h: C0_180=1.15 C90_270=1.15
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 66.36%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 87.008%

Equipment: GMS-1980
Temperature(°C): 25.0
Date: 2023-9-14
Humidity(%): 65.3%
Operator: MinLi Ke
Distance(m): 7.27

HX-DA614R-40090

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	459.001	.000	.000	.000%	.000%
1.0	458.891	.439	.439	.029%	.029%
2.0	458.481	1.317	1.756	.087%	.115%
3.0	457.957	2.192	3.948	.144%	.260%
4.0	457.112	3.063	7.011	.201%	.461%
5.0	456.143	3.929	10.940	.258%	.719%
6.0	454.865	4.788	15.727	.315%	1.034%
7.0	453.447	5.638	21.365	.371%	1.405%
8.0	451.765	6.478	27.843	.426%	1.831%
9.0	449.853	7.307	35.151	.480%	2.311%
10.0	447.739	8.123	43.273	.534%	2.845%
11.0	445.400	8.924	52.198	.587%	3.432%
12.0	442.828	9.710	61.907	.638%	4.070%
13.0	440.045	10.477	72.385	.689%	4.759%
14.0	437.094	11.227	83.612	.738%	5.497%
15.0	433.997	11.959	95.571	.786%	6.283%
16.0	430.562	12.668	108.239	.833%	7.116%
17.0	426.937	13.354	121.593	.878%	7.994%
18.0	423.030	14.014	135.607	.921%	8.916%
19.0	418.621	14.643	150.250	.963%	9.878%
20.0	414.138	15.242	165.492	1.002%	10.880%
21.0	409.266	15.811	181.303	1.040%	11.920%
22.0	404.153	16.346	197.649	1.075%	12.995%
23.0	398.934	16.851	214.500	1.108%	14.103%
24.0	393.327	17.322	231.821	1.139%	15.241%
25.0	387.544	17.755	249.576	1.167%	16.409%
26.0	381.695	18.158	267.734	1.194%	17.603%
27.0	375.731	18.531	286.265	1.218%	18.821%
28.0	369.398	18.865	305.130	1.240%	20.061%
29.0	362.937	19.160	324.290	1.260%	21.321%
30.0	356.088	19.414	343.704	1.276%	22.597%
31.0	349.463	19.634	363.338	1.291%	23.888%
32.0	342.527	19.825	383.163	1.303%	25.192%
33.0	335.550	19.976	403.139	1.313%	26.505%
34.0	328.269	20.089	423.228	1.321%	27.826%
35.0	321.205	20.170	443.398	1.326%	29.152%
36.0	313.678	20.215	463.613	1.329%	30.481%
37.0	306.164	20.216	483.829	1.329%	31.810%

HX-DA614R-40090

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	298.857	20.195	504.024	1.328%	33.138%
39.0	290.968	20.132	524.156	1.324%	34.461%
40.0	283.393	20.032	544.188	1.317%	35.778%
41.0	275.368	19.897	564.085	1.308%	37.086%
42.0	267.497	19.723	583.808	1.297%	38.383%
43.0	259.556	19.524	603.332	1.284%	39.667%
44.0	251.637	19.294	622.626	1.268%	40.935%
45.0	243.683	19.036	641.662	1.252%	42.187%
46.0	235.684	18.747	660.409	1.233%	43.419%
47.0	227.787	18.433	678.842	1.212%	44.631%
48.0	219.745	18.092	696.934	1.189%	45.821%
49.0	211.733	17.719	714.653	1.165%	46.986%
50.0	203.537	17.314	731.967	1.138%	48.124%
51.0	195.653	16.889	748.856	1.110%	49.234%
52.0	187.509	16.442	765.297	1.081%	50.315%
53.0	179.436	15.962	781.259	1.049%	51.365%
54.0	171.142	15.452	796.711	1.016%	52.381%
55.0	163.663	14.945	811.657	.983%	53.363%
56.0	155.590	14.426	826.083	.948%	54.312%
57.0	147.979	13.880	839.963	.913%	55.224%
58.0	140.078	13.321	853.283	.876%	56.100%
59.0	132.471	12.742	866.025	.838%	56.938%
60.0	124.878	12.158	878.183	.799%	57.737%
61.0	117.215	11.553	889.737	.760%	58.497%
62.0	109.859	10.942	900.678	.719%	59.216%
63.0	102.376	10.322	911.000	.679%	59.895%
64.0	95.307	9.700	920.701	.638%	60.533%
65.0	88.004	9.072	929.773	.596%	61.129%
66.0	81.046	8.435	938.207	.555%	61.684%
67.0	74.183	7.805	946.012	.513%	62.197%
68.0	67.669	7.186	953.198	.472%	62.669%
69.0	61.195	6.574	959.772	.432%	63.101%
70.0	55.082	5.972	965.744	.393%	63.494%
71.0	49.210	5.390	971.134	.354%	63.848%
72.0	43.784	4.835	975.970	.318%	64.166%
73.0	38.622	4.309	980.279	.283%	64.450%
74.0	33.821	3.809	984.088	.250%	64.700%
75.0	29.915	3.368	987.455	.221%	64.921%

Equipment: GMS-1980 Date: 2023-9-14 Operator: MinLi Ke
Temperature(°C): 25.0 Humidity(%): 65.3% Distance(m): 7.27

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	26.369	2.988	990.443	.196%	65.118%
77.0	23.476	2.657	993.100	.175%	65.293%
78.0	21.106	2.386	995.487	.157%	65.449%
79.0	19.221	2.167	997.654	.142%	65.592%
80.0	17.323	1.970	999.624	.130%	65.721%
81.0	15.504	1.775	1001.399	.117%	65.838%
82.0	13.764	1.587	1002.986	.104%	65.943%
83.0	11.954	1.398	1004.384	.092%	66.034%
84.0	10.284	1.211	1005.596	.080%	66.114%
85.0	8.597	1.031	1006.626	.068%	66.182%
86.0	7.043	.855	1007.481	.056%	66.238%
87.0	5.488	.686	1008.167	.045%	66.283%
88.0	4.034	.522	1008.688	.034%	66.317%
89.0	2.691	.369	1009.057	.024%	66.342%
90.0	1.947	.254	1009.311	.017%	66.358%

Zonal flux distribution table

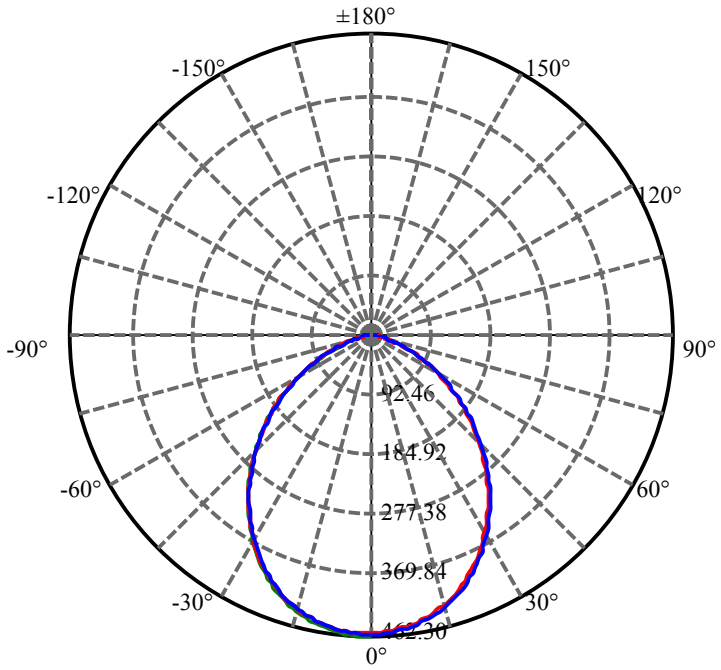
ZONAL LUMEN SUMMARY

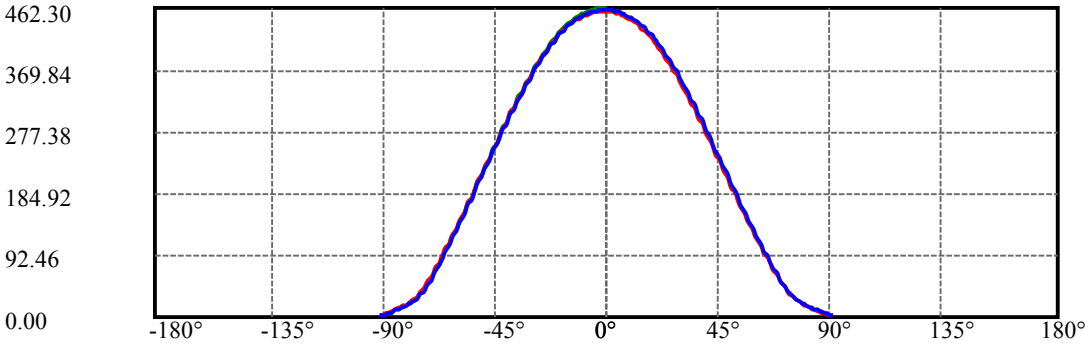
Zone	Lumens	%Lamp	%Fixt
0-30	343.70	22.60%	34.05%
0-40	544.19	35.78%	53.92%
0-60	878.18	57.74%	87.01%
0-90	1009.06	66.34%	99.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-180	1009.31	66.36%	100.00%

ZONAL LUMEN SUMMARY

0-10	43.27
10-20	122.22
20-30	178.21
30-40	200.48
40-50	187.78
50-60	146.22
60-70	87.56
70-80	33.88
80-90	9.43
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]





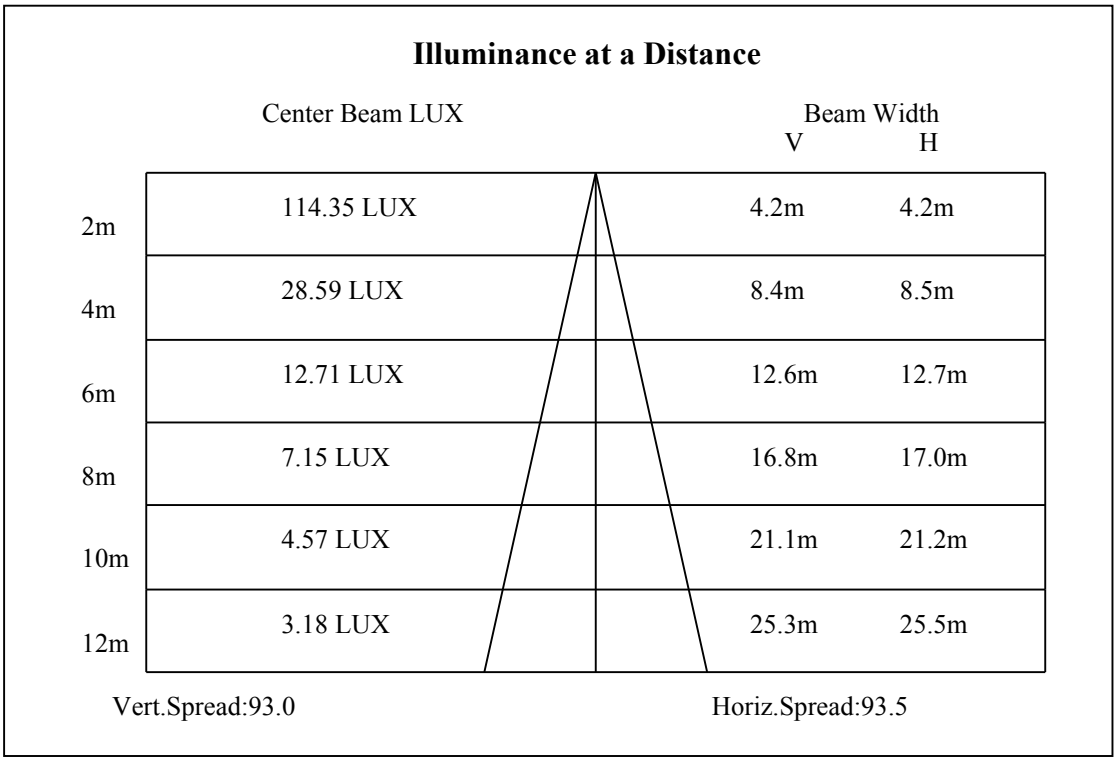
C210(Max):

C0/C180:

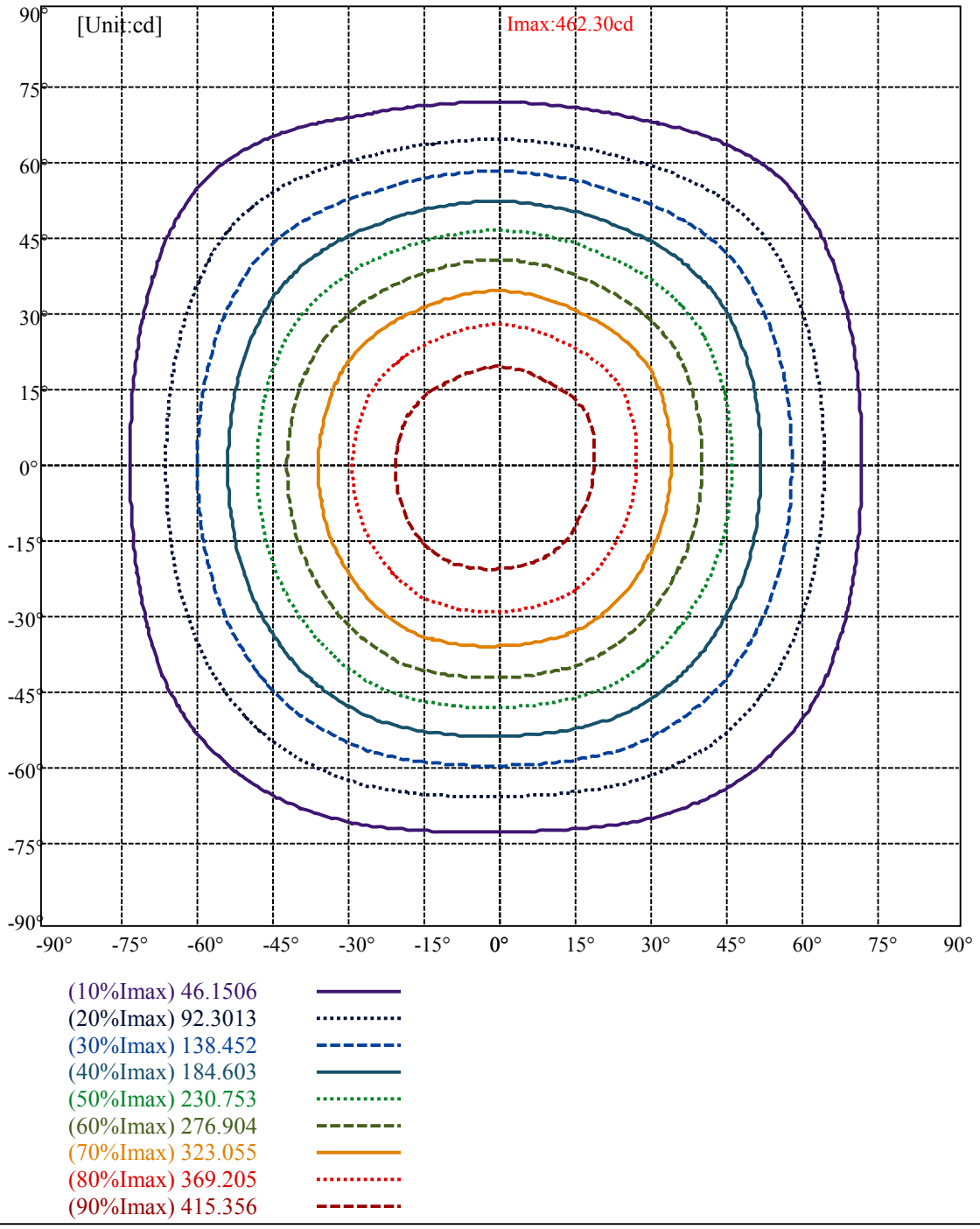
C90/C270:

Equipment: GMS-1980	Date: 2023-9-14	Operator: MinLi Ke
Temperature(°C): 25.0	Humidity(%): 65.3%	Distance(m): 7.27

Lux distance Curve



ISO-Intensity(V-H)



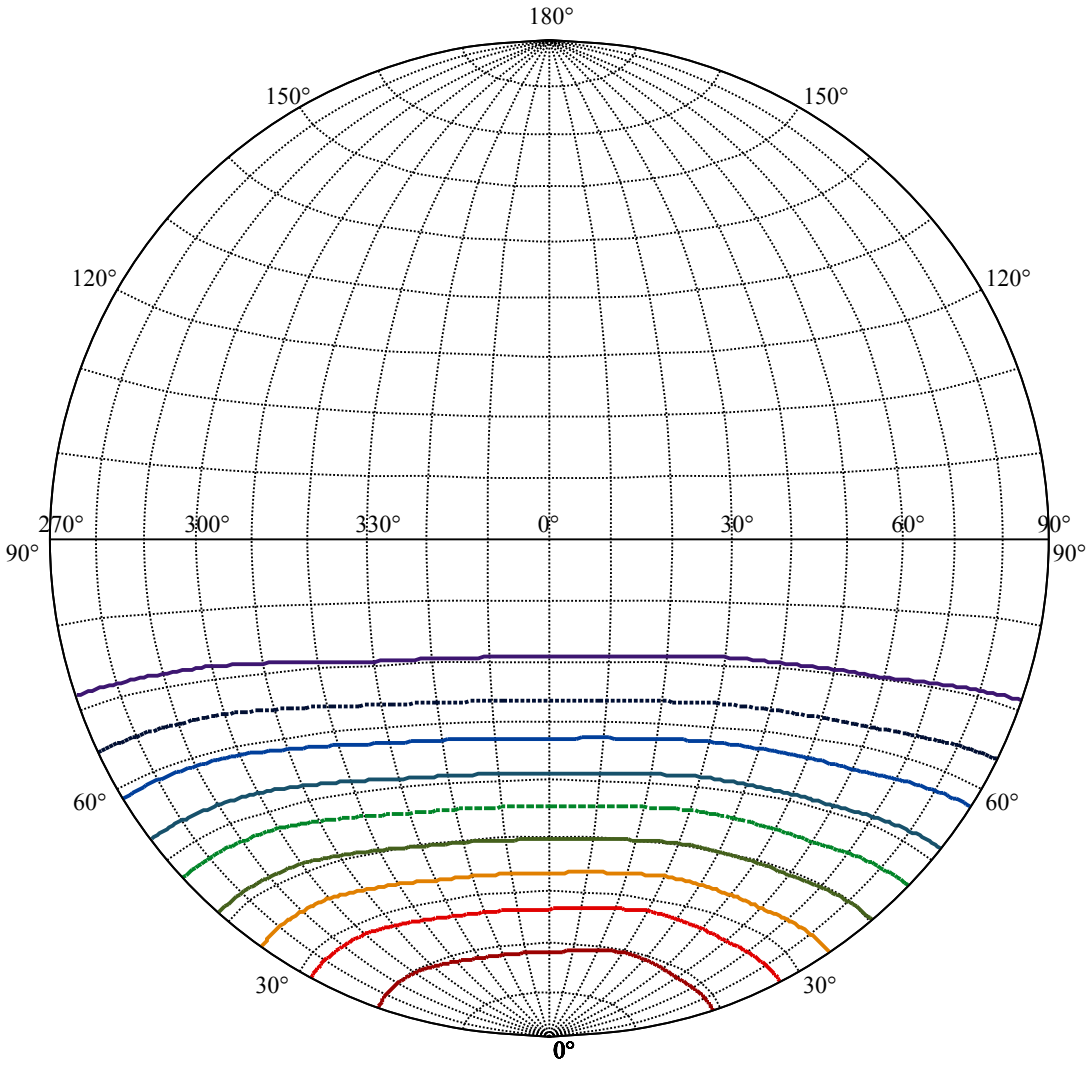
(10%Imax) 46.1506
(20%Imax) 92.3013
(30%Imax) 138.452
(40%Imax) 184.603
(50%Imax) 230.753
(60%Imax) 276.904
(70%Imax) 323.055
(80%Imax) 369.205
(90%Imax) 415.356

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

Date: 2023-9-14
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

ISO candela diagram on circular web

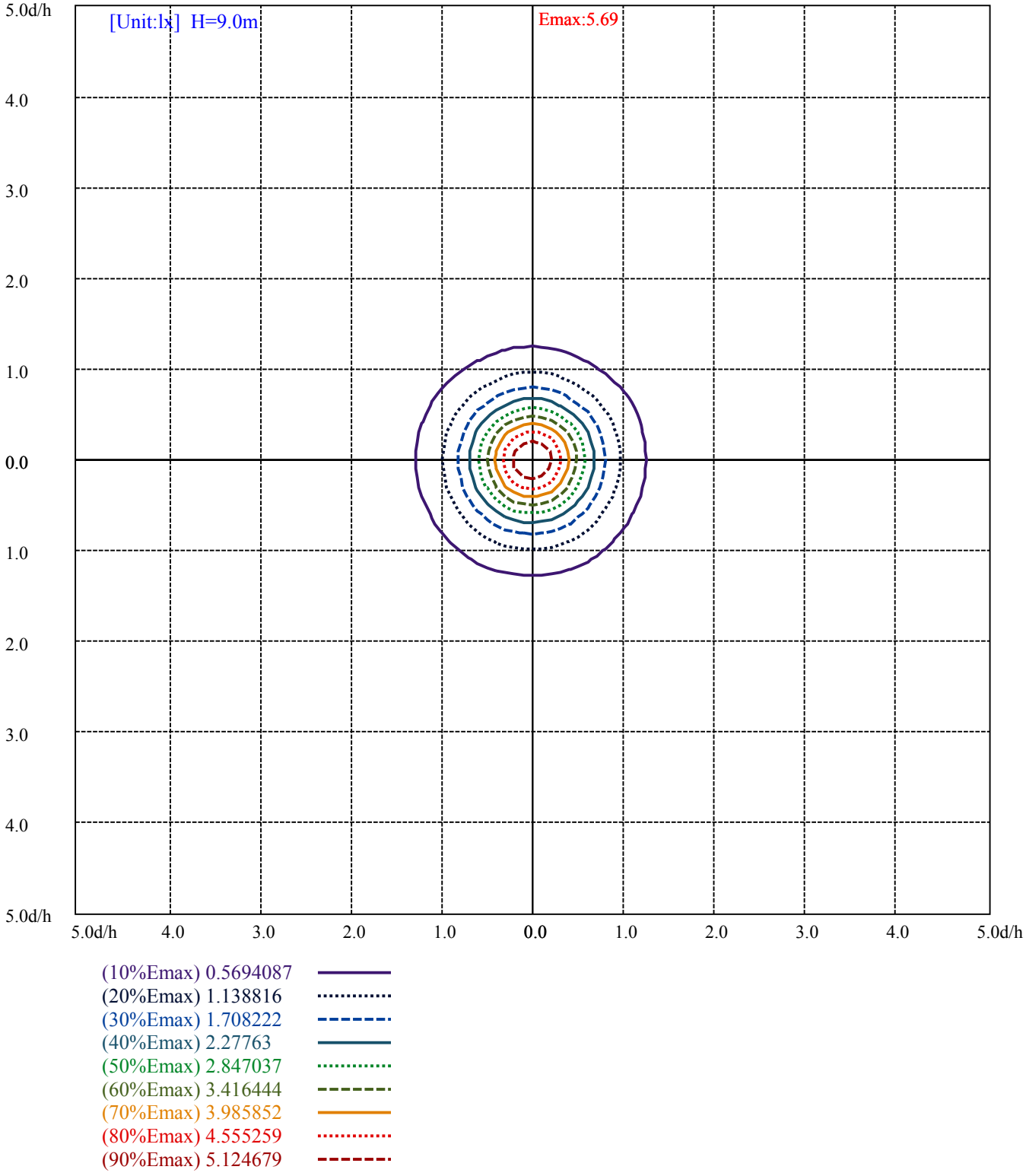


Imax:462.30cd

(10%Imax) 46.2304
(20%Imax) 92.4609
(30%Imax) 138.691
(40%Imax) 184.922
(50%Imax) 231.152
(60%Imax) 277.383
(70%Imax) 323.613
(80%Imax) 369.843
(90%Imax) 416.074

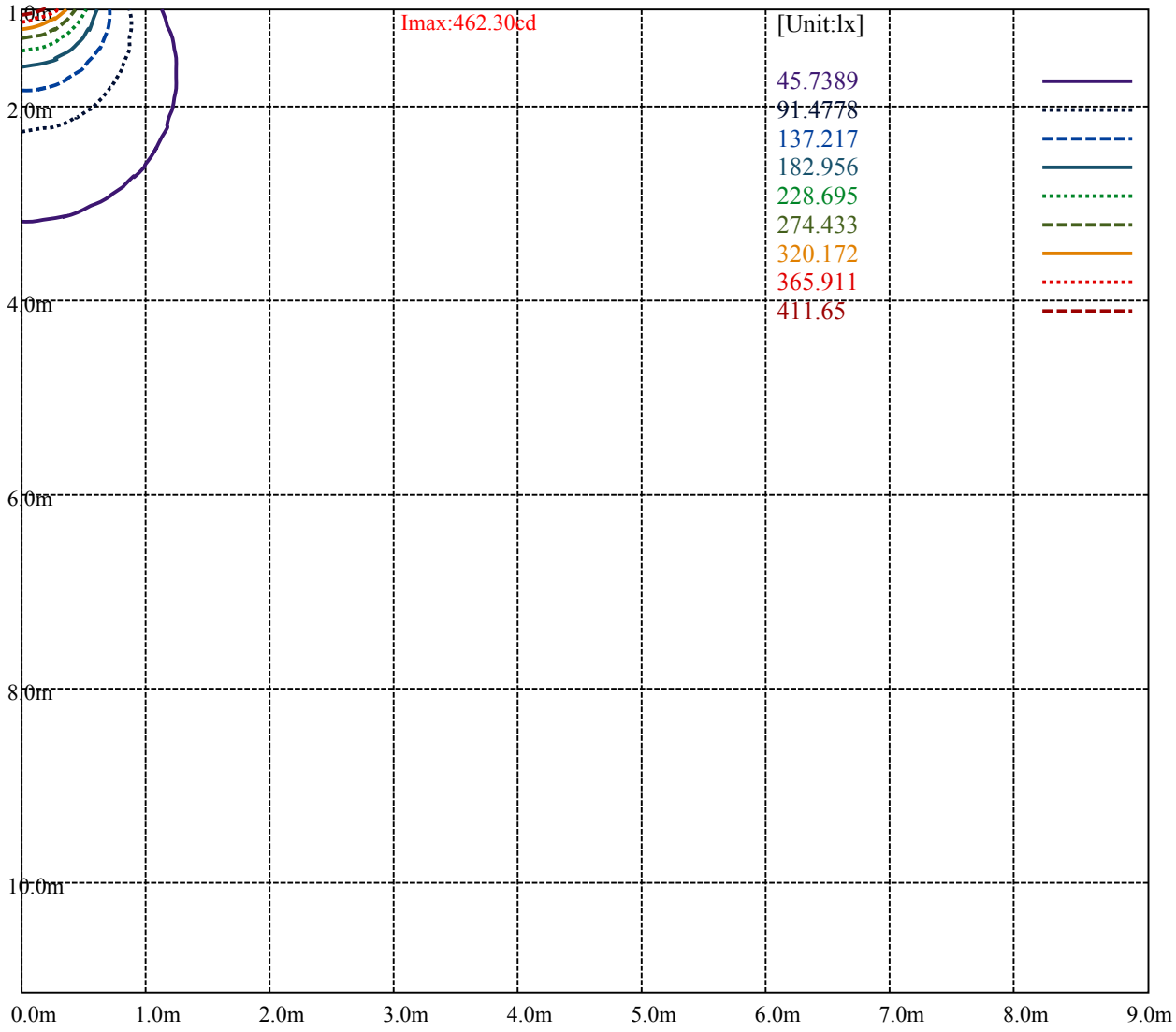
HX-DA614R-40090

ISO illuminance diagram



Equipment: GMS-1980
Date: 2023-9-14
Operator: MinLi Ke
Temperature(°C): 25.0
Humidity(%): 65.3%
Distance(m): 7.27

Space ISO Lux diagram



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

Date: 2023-9-14
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

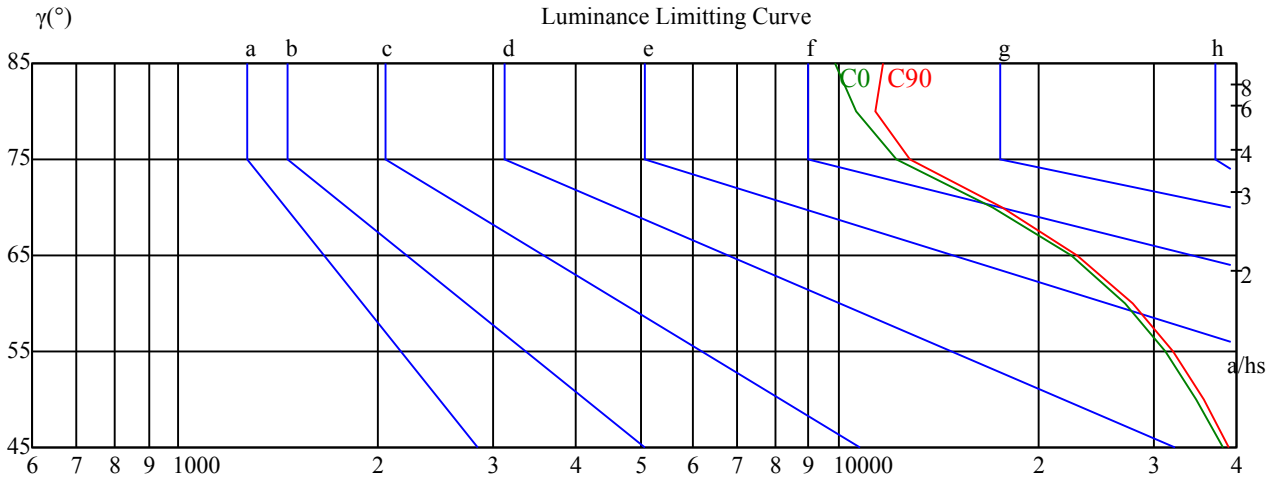
Luminance Limitting Curve(no luminous side)

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	38249	34688	31265	27174	22430	17061	12263	10651	9875
C45	0	0	0	0	0	0	0	0	0
C90	39069	35619	32010	27919	22950	17632	12829	11318	11626

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



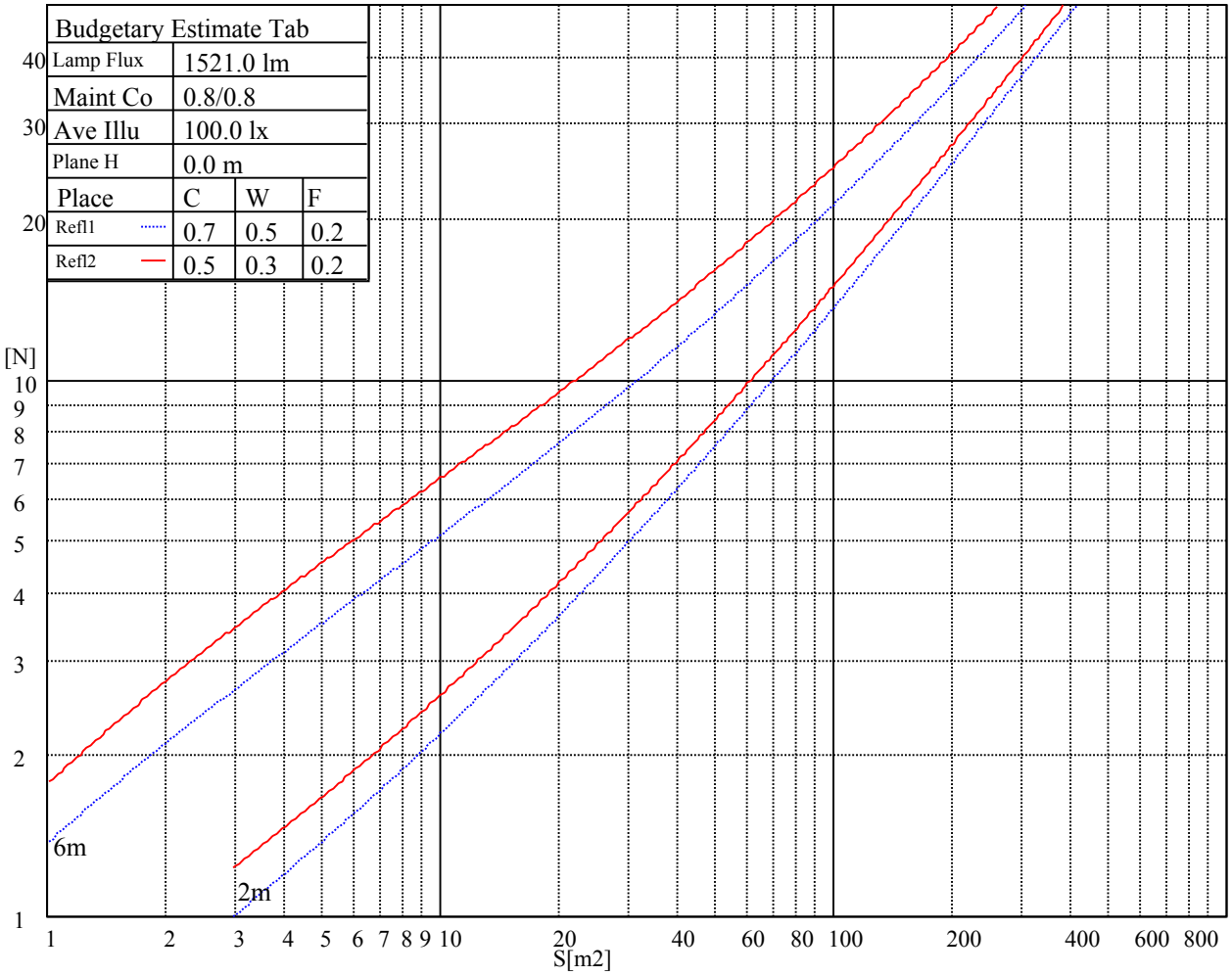
Equipment: GMS-1980
Temperature(°C): 25.0
Date: 2023-9-14
Humidity(%): 65.3%
Operator: MinLi Ke
Distance(m): 7.27

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	22.7	24.0	23.0	24.2	24.4	22.6	23.9	22.9	24.1	24.3
	3H	23.5	24.6	23.8	24.9	25.2	23.4	24.5	23.7	24.8	25.0
	4H	23.5	24.5	23.9	24.8	25.1	23.4	24.4	23.8	24.7	25.0
	6H	23.7	24.7	24.1	25.0	25.3	23.6	24.6	24.0	24.9	25.2
	8H	23.8	24.7	24.2	25.0	25.4	23.7	24.6	24.1	25.0	25.3
	12H	23.7	24.4	24.1	24.7	25.2	23.6	24.3	24.0	24.7	25.1
4H	2H	22.9	23.9	23.3	24.2	24.5	22.8	23.8	23.2	24.1	24.4
	3H	23.9	24.6	24.3	25.0	25.4	23.7	24.4	24.2	24.8	25.2
	4H	24.2	24.9	24.6	25.3	25.7	24.0	24.7	24.5	25.1	25.5
	6H	24.4	25.1	24.9	25.5	25.9	24.3	25.0	24.7	25.4	25.8
	8H	24.4	24.8	24.9	25.2	25.7	24.2	24.6	24.7	25.1	25.6
	12H	24.5	24.8	24.9	25.3	25.8	24.3	24.7	24.8	25.2	25.7
8H	4H	24.2	24.6	24.7	25.1	25.6	24.1	24.5	24.6	24.9	25.4
	6H	24.5	24.9	25.0	25.4	25.9	24.4	24.8	24.9	25.2	25.8
	8H	24.7	25.1	25.2	25.5	26.0	24.5	24.9	25.0	25.4	25.9
	12H	24.8	25.2	25.3	25.7	26.2	24.7	25.1	25.2	25.6	26.1
12H	4H	24.2	24.6	24.7	25.1	25.6	24.1	24.5	24.6	24.9	25.5
	6H	24.6	25.0	25.1	25.4	25.9	24.4	24.8	24.9	25.3	25.8
	8H	24.7	25.1	25.2	25.6	26.1	24.6	25.0	25.1	25.5	26.0

Variation with the observer position at spacings:		
S = 1.0H	0.4/-0.5	0.4/-0.5
S = 1.5H	0.7/-1.3	0.7/-1.2
S = 2.0H	2.0/-1.9	2.0/-1.9
Standard tables:	BK2	BK2
Uncorrected UGR	5.0	4.9
According 1000lm		

Budgetary Estimate Table

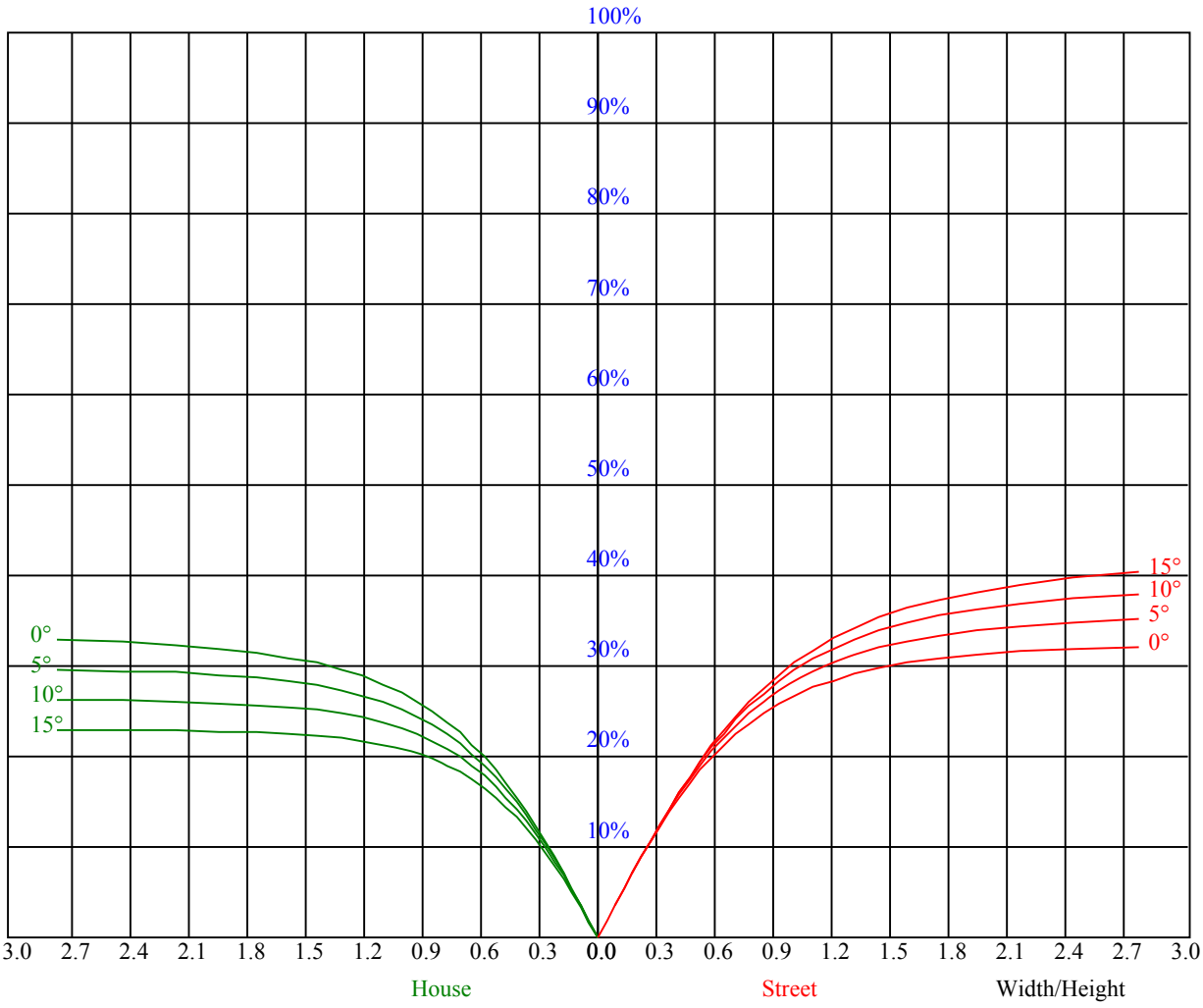


Equipment: GMS-1980 Date: 2023-9-14 Operator: MinLi Ke
Temperature(°C): 25.0 Humidity(%): 65.3% Distance(m): 7.27

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	0.79	0.79	0.79	0.77	0.77	0.77	0.74	0.74	0.74	0.71	0.71	0.71	0.68	0.68	0.68	0.66
1	0.70	0.68	0.66	0.69	0.67	0.65	0.66	0.64	0.63	0.64	0.62	0.61	0.61	0.60	0.59	0.58
2	0.62	0.58	0.55	0.61	0.58	0.54	0.59	0.56	0.53	0.57	0.54	0.52	0.55	0.53	0.51	0.49
3	0.56	0.51	0.47	0.55	0.50	0.46	0.53	0.49	0.46	0.51	0.48	0.45	0.49	0.46	0.44	0.43
4	0.50	0.44	0.40	0.49	0.44	0.40	0.47	0.43	0.40	0.46	0.42	0.39	0.44	0.41	0.39	0.37
5	0.45	0.39	0.35	0.44	0.39	0.35	0.43	0.38	0.35	0.41	0.37	0.34	0.40	0.37	0.34	0.33
6	0.41	0.35	0.31	0.40	0.35	0.31	0.39	0.34	0.31	0.38	0.34	0.30	0.37	0.33	0.30	0.29
7	0.37	0.32	0.28	0.37	0.31	0.28	0.36	0.31	0.27	0.35	0.30	0.27	0.34	0.30	0.27	0.26
8	0.34	0.29	0.25	0.34	0.28	0.25	0.33	0.28	0.25	0.32	0.28	0.25	0.31	0.27	0.24	0.23
9	0.31	0.26	0.23	0.31	0.26	0.23	0.30	0.26	0.22	0.29	0.25	0.22	0.29	0.25	0.22	0.21
10	0.29	0.24	0.21	0.29	0.24	0.21	0.28	0.24	0.21	0.27	0.23	0.20	0.27	0.23	0.20	0.19

Coefficient Utilization Curve



Equipment: GMS-1980	Date: 2023-9-14	Operator: MinLi Ke
Temperature(°C): 25.0	Humidity(%): 65.3%	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	457.39	457.02	456.23	455.54	454.22	453.11	451.52	449.99	448.14
30.0	462.25	462.09	461.51	460.82	459.93	458.66	457.39	455.86	454.11
60.0	460.19	459.77	459.13	458.29	457.07	455.91	454.22	452.47	450.41
90.0	458.97	458.76	458.23	457.60	456.65	455.70	454.11	452.69	450.84
120.0	457.76	457.65	457.18	456.49	455.43	454.48	453.11	451.68	449.78
150.0	457.44	457.49	457.28	457.02	456.44	455.70	454.59	453.16	451.89
180.0	457.39	457.39	457.23	456.91	456.44	455.70	454.75	453.53	452.00
210.0	462.25	462.30	462.15	461.83	461.04	460.19	459.03	457.76	456.28
240.0	460.19	460.40	460.19	459.98	459.50	458.76	457.81	456.65	455.38
270.0	458.97	458.97	458.71	458.34	457.60	456.54	455.54	454.11	452.58
300.0	457.76	457.71	457.39	456.97	456.28	455.43	454.17	452.95	451.21
330.0	457.44	457.12	456.54	455.70	454.75	453.53	452.16	450.52	448.56
360.0	457.39	457.02	456.23	455.54	454.22	453.11	451.52	449.99	448.14

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	445.76	443.65	441.06	438.36	435.24	431.91	428.80	425.04	420.87
30.0	452.05	449.62	447.29	444.55	441.80	438.57	435.14	431.33	427.90
60.0	448.14	445.81	443.12	440.05	437.15	433.92	430.80	426.95	422.82
90.0	448.72	446.66	444.02	441.64	438.73	435.61	432.60	428.85	424.99
120.0	447.61	445.18	442.85	440.05	437.41	434.19	431.28	427.69	423.83
150.0	450.15	448.25	446.08	443.75	441.22	438.41	435.56	432.23	429.17
180.0	450.41	448.30	446.34	443.91	441.22	438.63	435.61	432.65	429.38
210.0	454.38	452.58	450.31	447.88	445.44	442.43	439.58	435.98	432.76
240.0	453.90	452.00	449.88	447.72	445.13	442.59	439.58	436.67	432.97
270.0	450.84	448.67	446.61	443.96	441.06	438.36	435.19	432.28	428.74
300.0	449.67	447.88	445.60	443.01	440.21	437.52	434.29	431.33	427.74
330.0	446.61	444.28	441.64	439.05	435.93	432.97	429.54	425.73	422.08
360.0	445.76	443.65	441.06	438.36	435.24	431.91	428.80	425.04	420.87

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	416.80	412.04	407.65	402.37	396.71	391.64	385.56	379.91	373.51
30.0	423.56	419.39	414.42	409.72	404.27	398.56	393.23	386.99	381.33
60.0	418.65	413.73	409.19	403.58	398.46	392.59	386.46	380.28	374.57
90.0	421.34	416.75	412.41	407.18	401.73	396.66	390.79	385.35	378.90
120.0	419.92	415.21	410.88	405.70	400.10	395.08	389.00	383.03	377.48
150.0	425.36	421.18	417.17	412.46	407.87	402.58	397.61	391.85	385.88
180.0	425.99	421.82	417.27	412.41	407.76	402.42	397.45	391.69	386.51
210.0	428.64	424.30	419.65	415.16	410.03	405.17	399.62	394.39	388.26
240.0	429.32	425.36	421.55	416.96	412.57	407.97	402.37	396.61	390.85
270.0	425.25	420.87	416.16	411.35	406.76	401.36	396.50	390.69	385.40
300.0	424.14	419.70	415.21	410.93	405.65	401.00	395.23	389.21	383.29
330.0	417.38	413.10	408.08	403.37	397.93	392.17	386.09	380.54	374.36
360.0	416.80	412.04	407.65	402.37	396.71	391.64	385.56	379.91	373.51

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	367.59	360.83	353.90	346.77	340.48	333.24	326.58	319.07	312.04
30.0	374.83	368.86	361.83	354.75	347.40	340.74	333.98	326.31	318.60
60.0	368.60	361.78	355.44	348.09	340.64	332.97	326.10	318.39	311.30
90.0	373.19	366.59	359.72	352.42	346.08	338.63	332.02	324.36	317.54
120.0	371.71	365.11	358.08	350.84	344.34	336.94	330.17	322.51	315.69
150.0	379.54	373.93	367.43	361.30	354.38	348.04	340.85	333.34	326.63
180.0	380.54	374.20	368.33	361.51	355.28	348.25	340.80	333.55	326.90
210.0	381.92	376.31	369.76	362.94	356.65	349.57	343.12	335.62	328.90
240.0	385.40	379.11	373.51	366.96	360.19	354.22	347.14	340.69	333.29
270.0	379.17	372.82	366.85	360.14	353.96	346.98	339.63	332.34	325.73
300.0	377.74	371.40	365.48	358.77	352.79	345.87	338.79	332.23	324.62
330.0	368.54	361.83	354.91	348.56	341.38	334.88	327.42	320.82	313.21
360.0	367.59	360.83	353.90	346.77	340.48	333.24	326.58	319.07	312.04

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	304.12	296.19	289.00	280.81	273.57	265.53	257.29	250.05	241.70
30.0	310.67	303.53	295.39	288.15	279.91	272.40	264.00	255.39	247.03
60.0	303.43	295.34	288.15	280.01	272.51	264.11	256.39	247.88	239.37
90.0	309.72	301.90	294.65	286.46	279.17	270.87	262.52	254.06	246.56
120.0	307.92	300.10	293.07	284.93	277.64	269.29	260.93	253.43	245.03
150.0	319.13	312.31	304.38	296.35	289.26	281.02	272.77	265.37	257.13
180.0	319.55	312.84	305.91	298.09	289.95	281.71	274.31	266.22	258.87
210.0	321.35	313.63	306.55	298.51	291.38	283.29	275.10	267.91	259.67
240.0	326.58	319.02	311.15	303.16	296.08	288.26	281.23	273.25	266.06
270.0	318.28	311.41	304.38	296.56	288.58	280.49	273.20	265.00	257.61
300.0	318.02	310.35	303.38	295.45	287.52	279.59	272.51	264.63	257.39
330.0	305.38	297.35	290.27	283.13	275.15	267.86	259.72	251.47	243.23
360.0	304.12	296.19	289.00	280.81	273.57	265.53	257.29	250.05	241.70

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	234.19	225.73	218.23	209.93	201.53	193.07	185.67	177.53	170.34
30.0	239.58	232.13	223.78	215.38	207.92	199.41	191.01	183.45	175.00
60.0	230.91	223.46	215.16	207.82	199.47	192.01	183.56	175.00	167.33
90.0	239.21	230.86	223.41	215.06	206.71	198.25	190.85	182.34	174.73
120.0	236.68	229.17	220.82	213.53	205.28	196.88	189.37	180.65	172.99
150.0	249.78	241.48	233.24	225.84	217.38	209.98	201.63	194.13	185.57
180.0	250.68	242.38	234.98	226.84	219.55	211.31	203.80	195.24	186.68
210.0	251.26	243.81	235.46	227.85	219.34	210.88	203.27	194.71	187.10
240.0	257.66	249.25	241.70	233.24	225.58	216.91	208.40	200.89	192.44
270.0	249.31	241.85	233.50	224.94	217.38	208.87	201.26	192.70	184.14
300.0	249.15	240.69	233.19	224.73	217.17	208.77	201.21	192.91	184.62
330.0	235.78	227.37	219.97	211.78	203.48	196.08	187.79	180.55	172.30
360.0	234.19	225.73	218.23	209.93	201.53	193.07	185.67	177.53	170.34

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	162.31	155.28	147.25	139.32	132.24	124.42	117.65	109.88	102.48
30.0	167.44	159.25	151.27	144.08	136.15	129.01	121.14	114.16	106.50
60.0	159.09	151.85	143.71	135.57	128.59	120.82	113.26	106.45	99.73
90.0	166.22	158.98	150.95	142.97	135.88	127.85	120.87	113.05	105.49
120.0	164.53	157.34	149.26	141.12	133.14	126.27	118.55	111.63	103.96
150.0	177.06	168.76	161.68	154.59	146.56	138.53	131.45	123.57	115.75
180.0	178.22	170.93	162.84	155.70	147.67	140.64	132.71	124.84	117.81
210.0	178.59	170.98	162.68	154.33	145.87	138.47	130.18	122.78	114.74
240.0	183.98	176.42	167.91	160.46	152.00	143.44	135.99	127.69	120.35
270.0	175.74	168.13	159.77	152.32	143.92	136.57	128.27	120.08	112.95
300.0	176.48	169.08	160.94	153.54	145.08	137.79	129.60	121.46	114.32
330.0	164.06	156.97	148.83	141.75	133.82	125.84	118.87	110.99	104.23
360.0	162.31	155.28	147.25	139.32	132.24	124.42	117.65	109.88	102.48

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	95.24	88.95	82.08	75.95	69.18	63.26	56.66	50.53	45.29
30.0	98.94	91.59	85.09	78.06	71.99	65.38	59.72	53.70	48.04
60.0	92.18	84.72	77.59	71.35	64.59	58.77	52.69	47.67	42.28
90.0	97.88	91.33	83.98	77.64	70.77	64.80	58.30	52.22	47.04
120.0	97.25	89.85	82.56	76.27	69.50	63.58	57.29	51.43	45.88
150.0	108.98	101.48	94.87	87.68	80.60	73.68	67.70	61.84	55.39
180.0	109.93	103.06	95.35	87.68	81.02	73.73	66.70	60.68	54.23
210.0	107.61	99.73	91.86	84.99	77.54	70.98	64.00	57.13	50.63
240.0	112.37	105.44	97.83	90.17	82.56	75.90	69.34	62.26	55.50
270.0	105.12	98.04	90.33	82.77	76.16	68.92	61.84	55.87	50.21
300.0	106.45	99.63	92.07	84.67	78.06	70.88	64.59	57.66	51.95
330.0	96.56	89.85	82.45	75.32	68.23	62.16	55.50	50.00	44.08
360.0	95.24	88.95	82.08	75.95	69.18	63.26	56.66	50.53	45.29

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	39.80	35.25	30.81	27.48	24.42	21.72	19.71	17.97	16.01
30.0	43.08	37.90	33.67	29.49	25.95	22.89	20.82	18.92	17.23
60.0	37.26	33.19	29.23	26.11	23.20	20.72	18.87	17.28	15.43
90.0	41.60	37.16	32.72	28.75	25.69	22.83	20.45	18.92	17.02
120.0	41.12	36.68	32.03	28.43	25.05	22.15	19.93	18.23	16.44
150.0	49.89	43.97	38.53	33.56	29.70	26.06	23.31	20.88	19.13
180.0	48.73	42.76	37.31	32.93	28.70	25.53	22.46	20.56	18.55
210.0	45.14	40.06	34.99	31.02	27.27	24.15	21.72	19.87	17.81
240.0	49.79	43.71	38.16	33.83	29.60	26.43	23.47	21.25	19.29
270.0	44.08	38.53	33.56	29.70	26.11	23.41	21.25	19.40	17.34
300.0	45.82	40.12	34.94	31.02	27.22	24.42	21.93	20.03	18.02
330.0	39.11	34.14	29.91	26.64	23.52	21.41	19.34	17.34	15.59
360.0	39.80	35.25	30.81	27.48	24.42	21.72	19.71	17.97	16.01

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.38	12.47	10.73	9.09	7.45	6.08	4.55	3.01	1.90
30.0	15.49	13.85	11.94	10.46	8.83	7.24	5.76	4.39	2.96
60.0	13.74	12.31	10.62	9.20	7.61	6.24	4.81	3.44	2.01
90.0	15.49	13.64	12.00	10.41	8.77	7.45	5.81	4.39	3.01
120.0	14.69	13.16	11.42	9.99	8.35	6.71	5.23	3.91	2.54
150.0	17.18	15.43	13.48	11.79	10.04	8.46	6.87	5.29	3.96
180.0	16.70	14.90	13.21	11.47	9.57	8.03	6.40	4.92	3.38
210.0	15.91	14.06	12.16	10.46	8.72	6.98	5.34	3.91	2.48
240.0	17.28	15.43	13.42	11.42	9.72	8.03	6.40	4.81	3.44
270.0	15.33	13.53	11.73	10.09	8.25	6.61	5.02	3.59	2.17
300.0	16.01	14.22	12.37	10.41	8.83	7.14	5.66	4.12	2.70
330.0	13.85	12.16	10.36	8.62	7.03	5.55	4.02	2.64	1.74
360.0	14.38	12.47	10.73	9.09	7.45	6.08	4.55	3.01	1.90

C/γ(°)	90.0
0.0	1.74
30.0	1.80
60.0	1.74
90.0	1.74
120.0	1.85
150.0	2.54
180.0	2.75
210.0	1.96
240.0	2.01
270.0	1.74
300.0	1.80
330.0	1.69
360.0	1.74