DILUCE | 登路仕
ZhongShan HaoXiang Lighting CO.,LTD
Http://www.diluce.cc
Email:sales @diluce.cc
Tel:+86-760-22253325 Fax:+86-760-22287069
Address:12 Wanfu Road Xinglong industrial area,Jiu Zhou ji,Xiaolan town,Zhongshan City,China.

HX-DA614S-30090

LumCAT: HX-DA614S-30090
Report No:
Test No:
LampCAT: 2835 12C7B 30090
Lamp flux(lm): 1572.0
Number of Lamps: 1
Length(mm): -105
Phm Type: C

Luminaire: HX-DA614S
Voltage(V): 230.300
Current(A): 0.060
Power (W): 13.300
PF: 0.954
Ballast type: OSRAM OTFIT 15/220-240/350CS
Width(mm): -105
Height(mm): 0

Photometric Results

Lumens(lm): 1046.20
Efficiency(%): 66.55%
Lumens(lm)/Power(W): 78.66
Central intensity(cd): 454.376
Maximum intensity(cd): 458.658
Angle of maximum intensity: C=30.0 γ=1.0
Beam Angle(50%Imax): [H]Left=49.8 Right=47.0
[V]Left=51.2 Right=45.7
Field angle(10%Imax): [H]Left=74.4 Right=71.4
[V]Left=75.6 Right=70.2
Maximum s/h: C0_180=1.19 C90_270=1.20
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 66.55%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 86.193%

Equipment: GMS-1980
Temperature(°C): 25.0
Date: 2023-9-22
Humidity(%): 65.3%
Operator: MinLi Ke
Distance(m): 7.27

HX-DA614S-30090

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	455.759	.000	.000	.000%	.000%
1.0	455.680	.436	.436	.028%	.028%
2.0	455.350	1.308	1.744	.083%	.111%
3.0	454.839	2.177	3.921	.138%	.249%
4.0	454.108	3.043	6.963	.194%	.443%
5.0	453.134	3.903	10.866	.248%	.691%
6.0	451.945	4.756	15.622	.303%	.994%
7.0	450.593	5.602	21.224	.356%	1.350%
8.0	448.955	6.438	27.662	.410%	1.760%
9.0	447.136	7.262	34.925	.462%	2.222%
10.0	445.110	8.074	42.999	.514%	2.735%
11.0	442.859	8.873	51.872	.564%	3.300%
12.0	440.362	9.655	61.527	.614%	3.914%
13.0	437.635	10.420	71.946	.663%	4.577%
14.0	434.847	11.168	83.114	.710%	5.287%
15.0	431.689	11.896	95.010	.757%	6.044%
16.0	428.461	12.604	107.614	.802%	6.846%
17.0	424.924	13.290	120.903	.845%	7.691%
18.0	421.273	13.952	134.855	.888%	8.579%
19.0	417.234	14.588	149.444	.928%	9.507%
20.0	413.125	15.198	164.641	.967%	10.473%
21.0	408.615	15.779	180.421	1.004%	11.477%
22.0	403.994	16.330	196.750	1.039%	12.516%
23.0	399.132	16.852	213.602	1.072%	13.588%
24.0	394.067	17.342	230.944	1.103%	14.691%
25.0	388.729	17.799	248.743	1.132%	15.823%
26.0	383.364	18.225	266.969	1.159%	16.983%
27.0	377.762	18.621	285.590	1.185%	18.167%
28.0	371.939	18.981	304.571	1.207%	19.375%
29.0	366.121	19.310	323.880	1.228%	20.603%
30.0	359.871	19.602	343.482	1.247%	21.850%
31.0	353.608	19.855	363.337	1.263%	23.113%
32.0	347.116	20.075	383.412	1.277%	24.390%
33.0	340.796	20.266	403.678	1.289%	25.679%
34.0	334.057	20.423	424.101	1.299%	26.978%
35.0	327.270	20.538	444.639	1.307%	28.285%
36.0	320.355	20.620	465.260	1.312%	29.597%
37.0	313.541	20.674	485.934	1.315%	30.912%

HX-DA614S-30090

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	306.635	20.701	506.635	1.317%	32.229%
39.0	299.258	20.681	527.315	1.316%	33.544%
40.0	292.233	20.629	547.945	1.312%	34.857%
41.0	284.644	20.542	568.487	1.307%	36.163%
42.0	277.324	20.417	588.904	1.299%	37.462%
43.0	269.788	20.267	609.171	1.289%	38.751%
44.0	262.318	20.083	629.254	1.278%	40.029%
45.0	254.747	19.871	649.125	1.264%	41.293%
46.0	247.264	19.633	668.758	1.249%	42.542%
47.0	239.358	19.354	688.112	1.231%	43.773%
48.0	231.527	19.036	707.147	1.211%	44.984%
49.0	223.792	18.698	725.845	1.189%	46.173%
50.0	215.939	18.334	744.179	1.166%	47.340%
51.0	208.104	17.941	762.120	1.141%	48.481%
52.0	200.026	17.513	779.633	1.114%	49.595%
53.0	192.248	17.064	796.697	1.085%	50.680%
54.0	184.192	16.592	813.289	1.055%	51.736%
55.0	176.423	16.097	829.386	1.024%	52.760%
56.0	168.359	15.580	844.966	.991%	53.751%
57.0	160.695	15.045	860.011	.957%	54.708%
58.0	152.785	14.496	874.507	.922%	55.630%
59.0	144.967	13.920	888.427	.885%	56.516%
60.0	137.105	13.326	901.753	.848%	57.363%
61.0	129.296	12.713	914.467	.809%	58.172%
62.0	121.707	12.095	926.561	.769%	58.942%
63.0	113.863	11.457	938.018	.729%	59.670%
64.0	106.344	10.805	948.824	.687%	60.358%
65.0	98.738	10.149	958.973	.646%	61.003%
66.0	91.488	9.491	968.464	.604%	61.607%
67.0	83.983	8.823	977.288	.561%	62.168%
68.0	76.883	8.149	985.437	.518%	62.687%
69.0	69.872	7.487	992.923	.476%	63.163%
70.0	63.023	6.825	999.748	.434%	63.597%
71.0	56.359	6.170	1005.919	.393%	63.990%
72.0	50.091	5.535	1011.454	.352%	64.342%
73.0	44.176	4.930	1016.383	.314%	64.655%
74.0	38.354	4.339	1020.722	.276%	64.931%
75.0	33.218	3.782	1024.504	.241%	65.172%

Equipment: GMS-1980 Date: 2023-9-22 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	28.378	3.270	1027.773	.208%	65.380%
77.0	24.352	2.811	1030.585	.179%	65.559%
78.0	20.837	2.419	1033.004	.154%	65.713%
79.0	18.146	2.095	1035.098	.133%	65.846%
80.0	16.089	1.846	1036.944	.117%	65.963%
81.0	14.380	1.648	1038.592	.105%	66.068%
82.0	12.852	1.477	1040.069	.094%	66.162%
83.0	11.302	1.313	1041.382	.084%	66.246%
84.0	9.778	1.148	1042.530	.073%	66.319%
85.0	8.271	.985	1043.515	.063%	66.381%
86.0	6.853	.827	1044.342	.053%	66.434%
87.0	5.461	.674	1045.016	.043%	66.477%
88.0	4.162	.527	1045.543	.034%	66.510%
89.0	2.872	.386	1045.928	.025%	66.535%
90.0	2.158	.276	1046.204	.018%	66.552%

Zonal flux distribution table

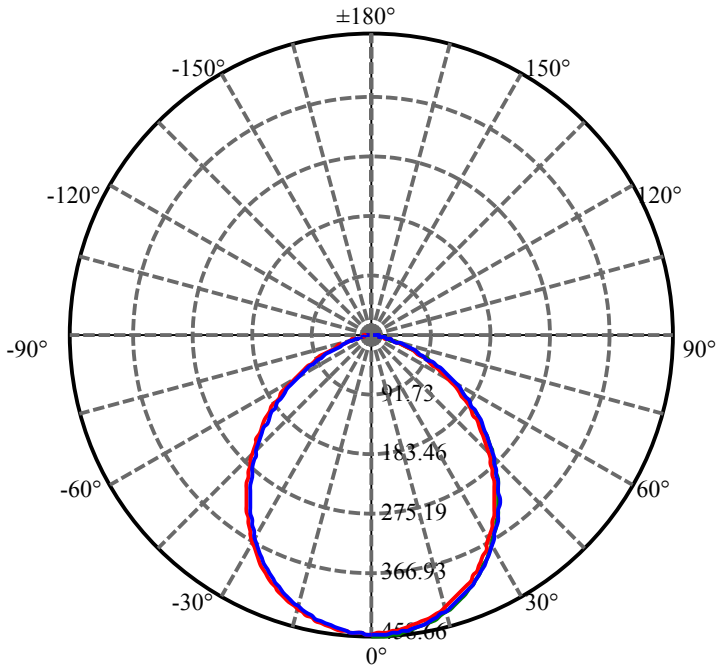
ZONAL LUMEN SUMMARY

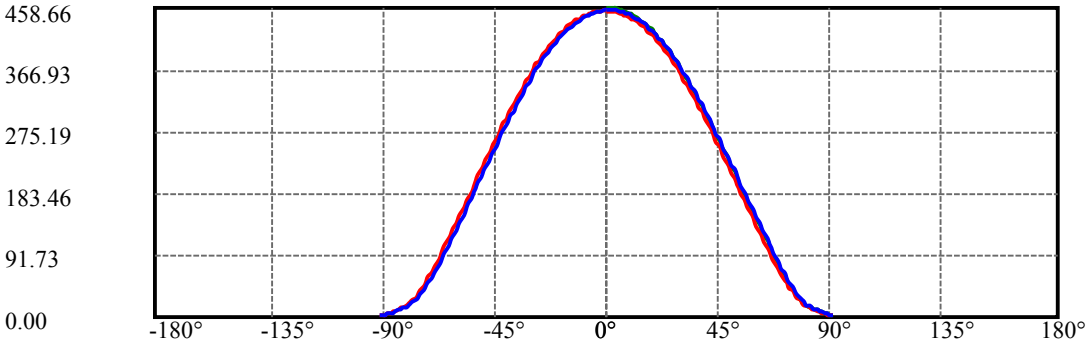
Zone	Lumens	%Lamp	%Fixt
0-30	343.48	21.85%	32.83%
0-40	547.94	34.86%	52.37%
0-60	901.75	57.36%	86.19%
0-90	1045.93	66.53%	99.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-180	1046.20	66.55%	100.00%

ZONAL LUMEN SUMMARY

0-10	43.00
10-20	121.64
20-30	178.84
30-40	204.46
40-50	196.23
50-60	157.57
60-70	97.99
70-80	37.20
80-90	8.98
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]



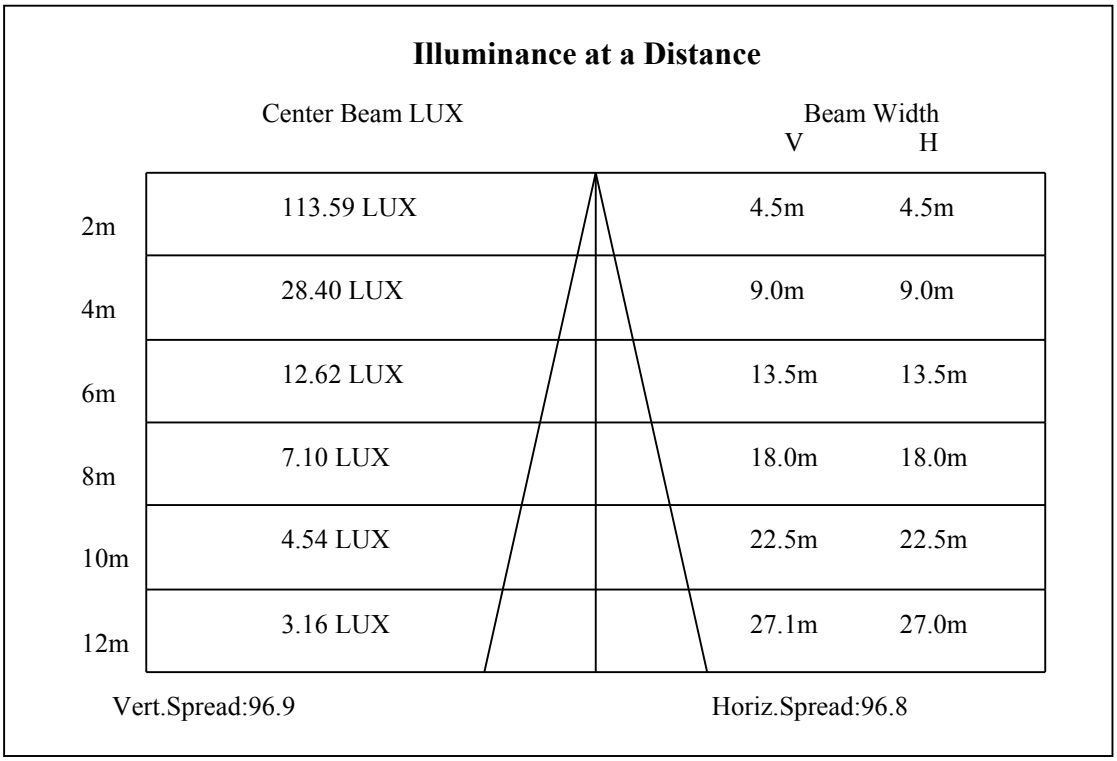


C30(Max):

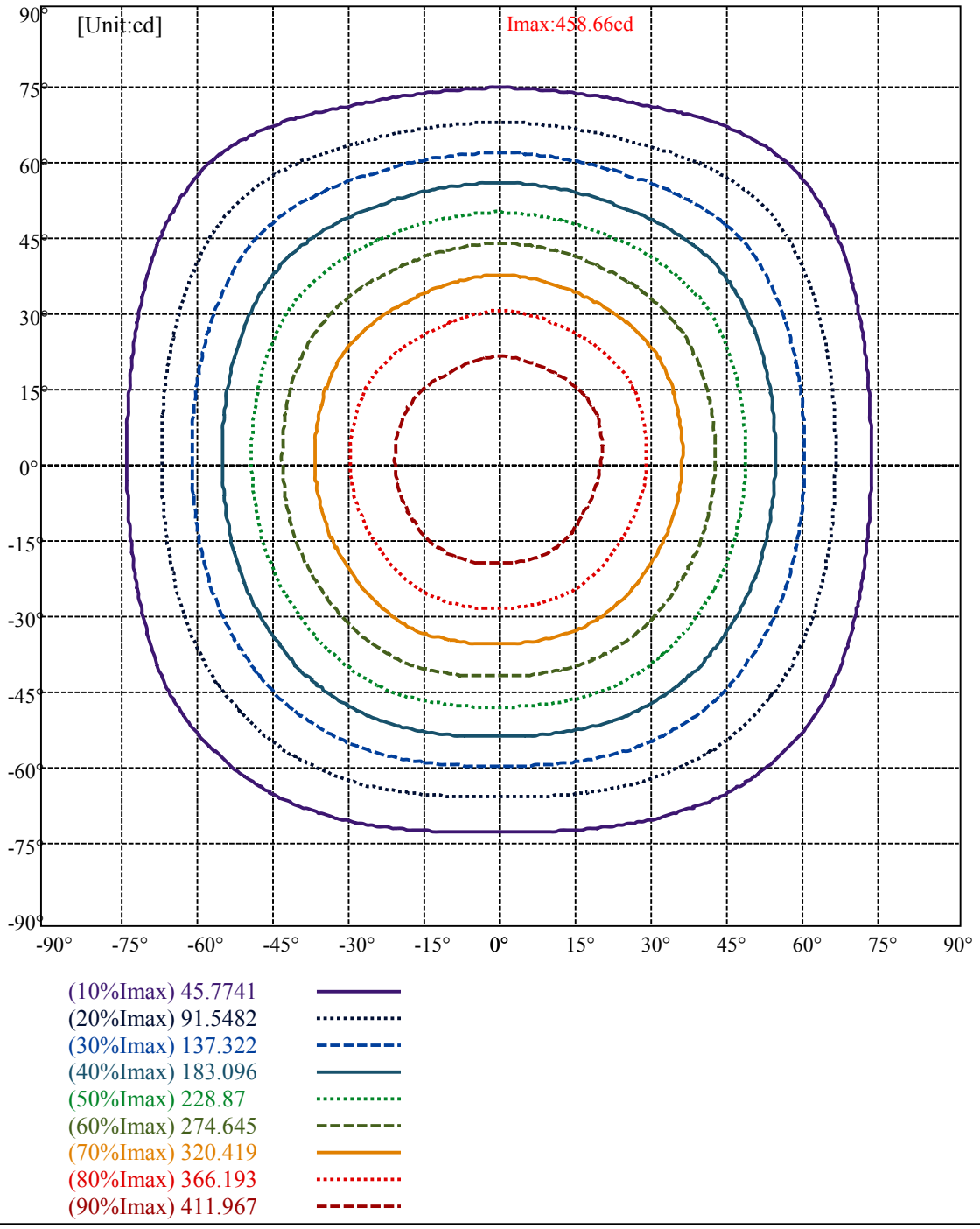
C0/C180:

C90/C270:

Lux distance Curve



ISO-Intensity(V-H)



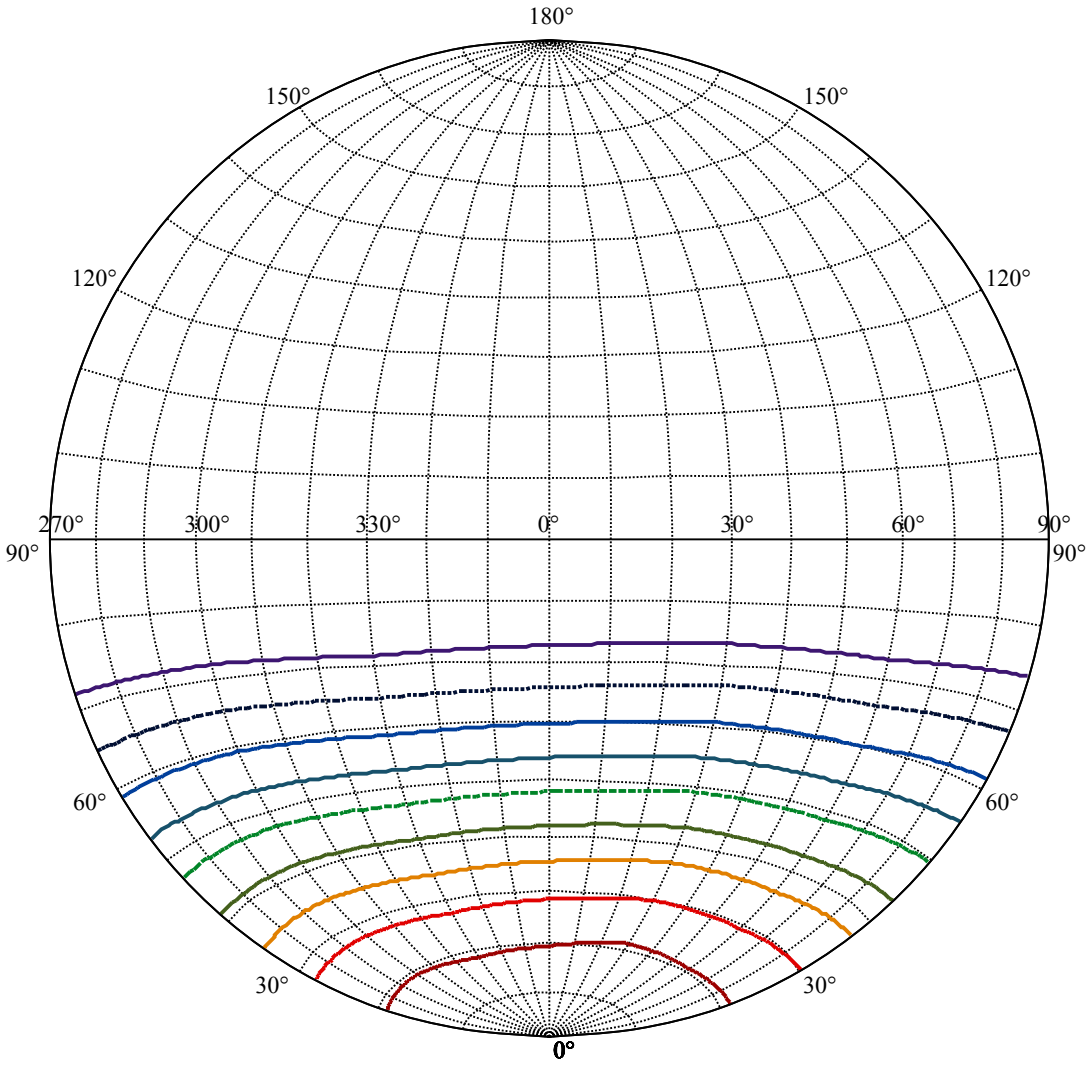
(10%Imax) 45.7741
(20%Imax) 91.5482
(30%Imax) 137.322
(40%Imax) 183.096
(50%Imax) 228.87
(60%Imax) 274.645
(70%Imax) 320.419
(80%Imax) 366.193
(90%Imax) 411.967

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

Date: 2023-9-22
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

ISO candela diagram on circular web



Imax:458.66cd

(10%Imax) 45.8657
(20%Imax) 91.7315
(30%Imax) 137.597
(40%Imax) 183.463
(50%Imax) 229.329
(60%Imax) 275.194
(70%Imax) 321.06
(80%Imax) 366.926
(90%Imax) 412.792

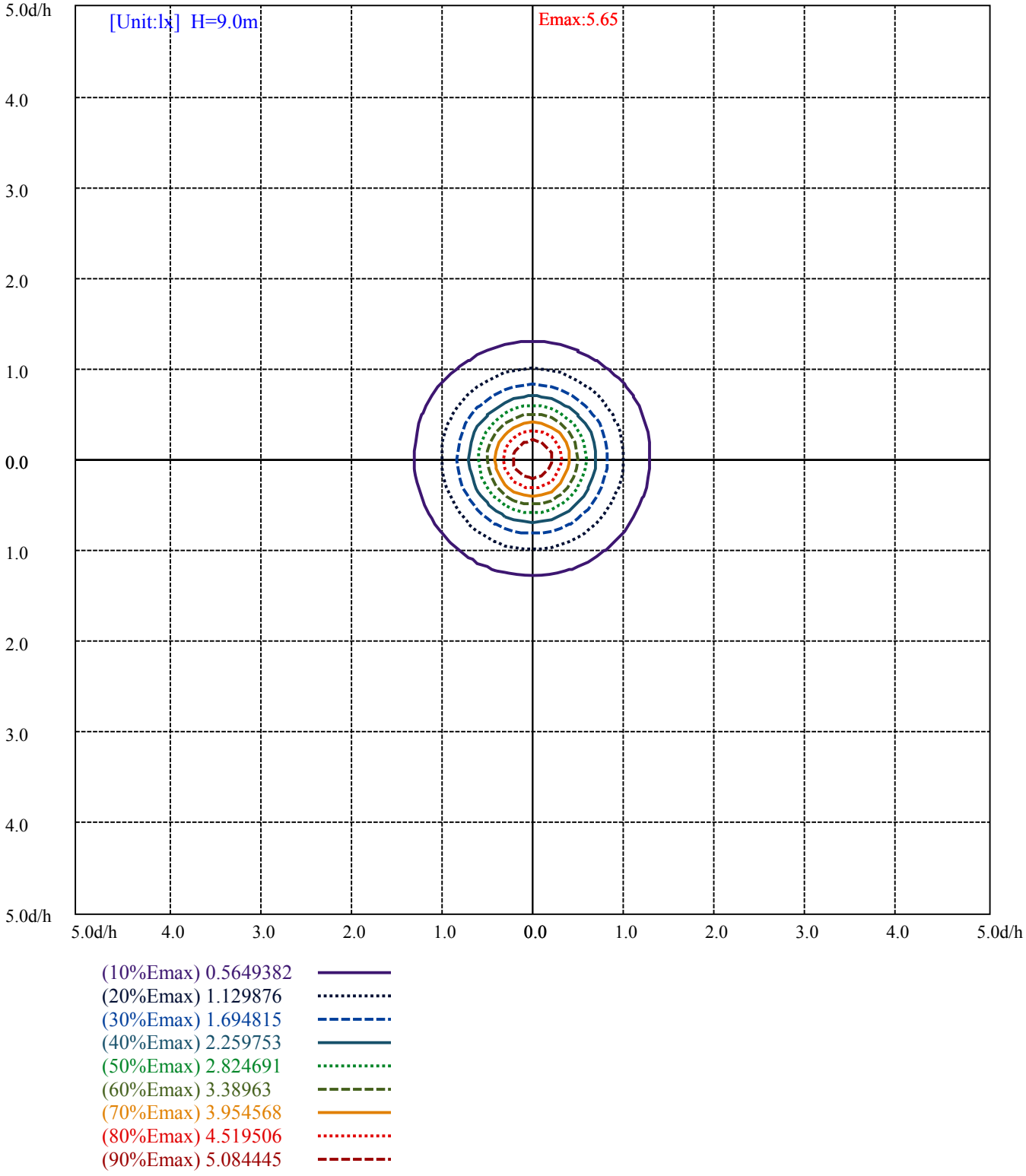
Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2023-9-22
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

HX-DA614S-30090

ISO illuminance diagram

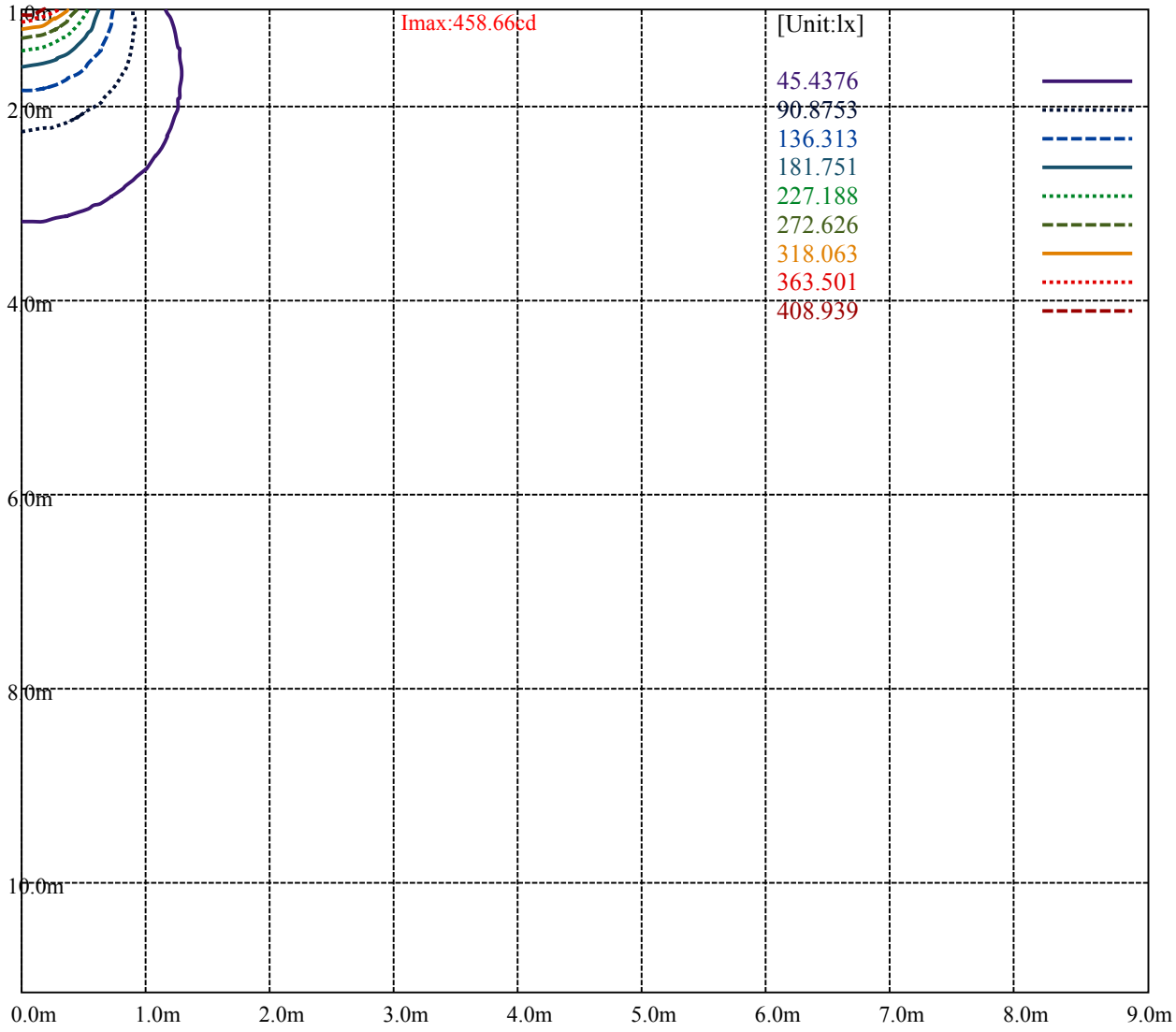


Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2023-9-22
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

Space ISO Lux diagram



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

Date: 2023-9-22
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

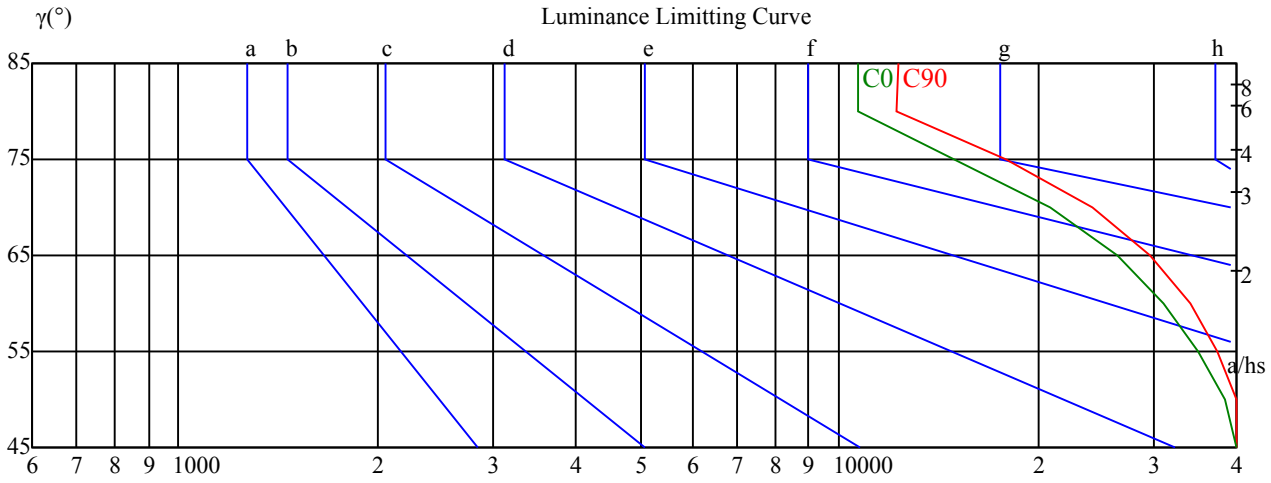
Luminance Limitting Curve(no luminous side)

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	41261	38373	35075	31068	26430	20952	14952	10721	10715
C45	0	0	0	0	0	0	0	0	0
C90	43065	40490	37480	33998	29593	24146	17947	12197	12326

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

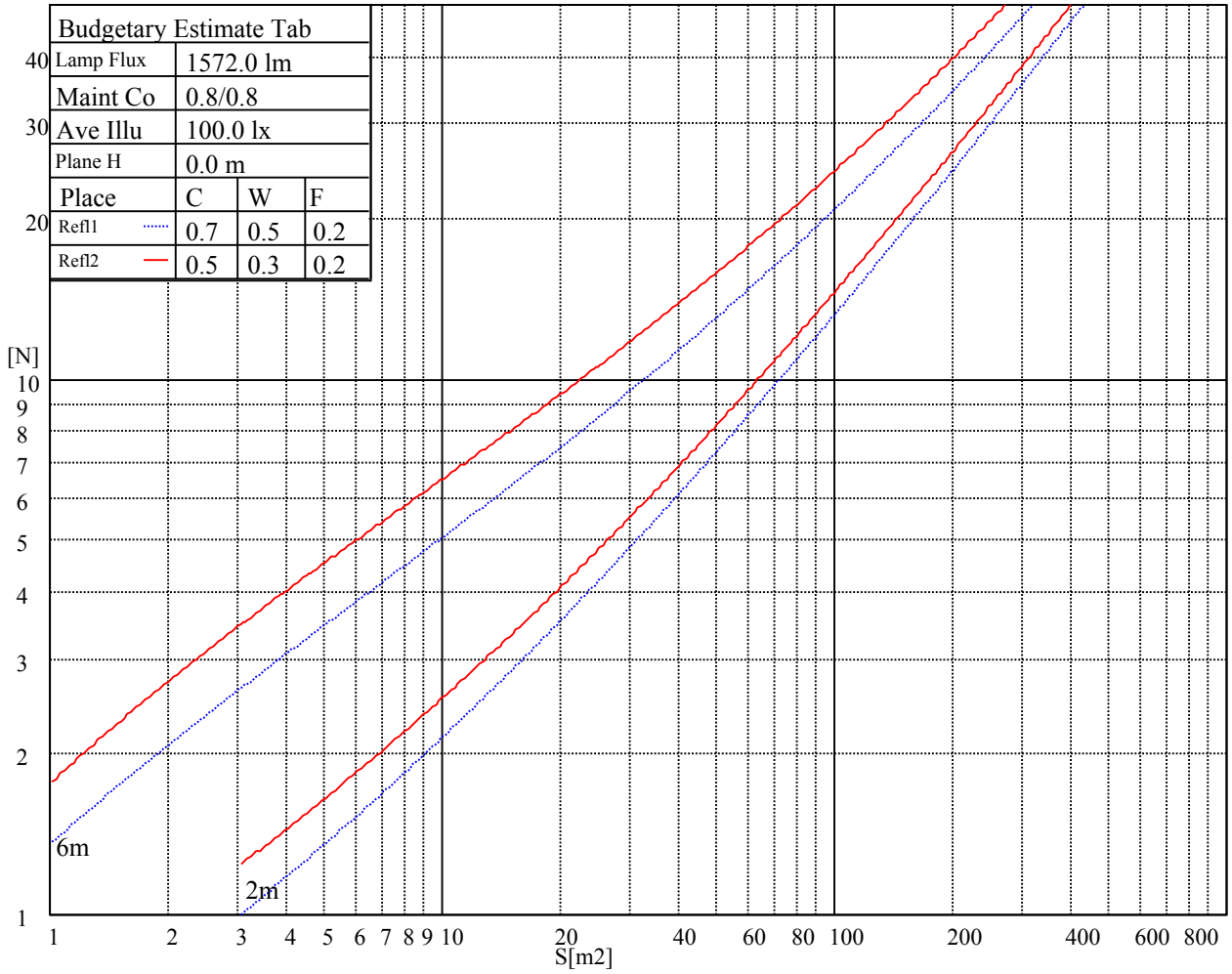
Date: 2023-9-22
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

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	23.3	24.6	23.6	24.9	25.1	23.4	24.7	23.7	25.0	25.2
	3H	24.3	25.4	24.6	25.7	25.9	24.4	25.6	24.8	25.9	26.1
	4H	24.3	25.3	24.7	25.6	25.9	24.6	25.5	24.9	25.9	26.2
	6H	24.5	25.4	24.9	25.8	26.1	24.7	25.7	25.1	26.0	26.4
	8H	24.5	25.5	24.9	25.8	26.2	24.8	25.8	25.2	26.1	26.4
	12H	24.4	25.1	24.8	25.5	25.9	24.7	25.4	25.1	25.8	26.2
4H	2H	23.7	24.6	24.0	25.0	25.3	23.8	24.7	24.1	25.0	25.4
	3H	24.7	25.5	25.2	25.9	26.3	24.9	25.6	25.3	26.0	26.4
	4H	25.1	25.8	25.5	26.2	26.6	25.3	26.0	25.7	26.4	26.8
	6H	25.3	26.0	25.7	26.4	26.8	25.5	26.2	25.9	26.6	27.0
	8H	25.2	25.6	25.7	26.1	26.6	25.4	25.8	25.9	26.3	26.8
	12H	25.3	25.7	25.8	26.2	26.7	25.5	25.9	26.0	26.3	26.9
8H	4H	25.1	25.5	25.6	26.0	26.5	25.3	25.7	25.8	26.1	26.7
	6H	25.4	25.8	25.9	26.3	26.8	25.5	25.9	26.0	26.4	26.9
	8H	25.5	25.9	26.0	26.4	26.9	25.7	26.1	26.2	26.5	27.0
	12H	25.6	26.0	26.1	26.5	27.0	25.8	26.2	26.3	26.7	27.2
12H	4H	25.1	25.5	25.6	26.0	26.5	25.3	25.7	25.8	26.2	26.7
	6H	25.4	25.8	25.9	26.3	26.8	25.6	26.0	26.1	26.4	27.0
	8H	25.6	26.0	26.1	26.4	26.9	25.7	26.1	26.2	26.6	27.1

Variation with the observer position at spacings:		
S = 1.0H	0.5/-0.5	0.4/-0.4
S = 1.5H	0.7/-1.2	0.7/-1.0
S = 2.0H	1.8/-1.8	1.7/-1.5
Standard tables:	BK3	BK2
Uncorrected UGR	6.4	5.9
According 1000lm		

Budgetary Estimate Table

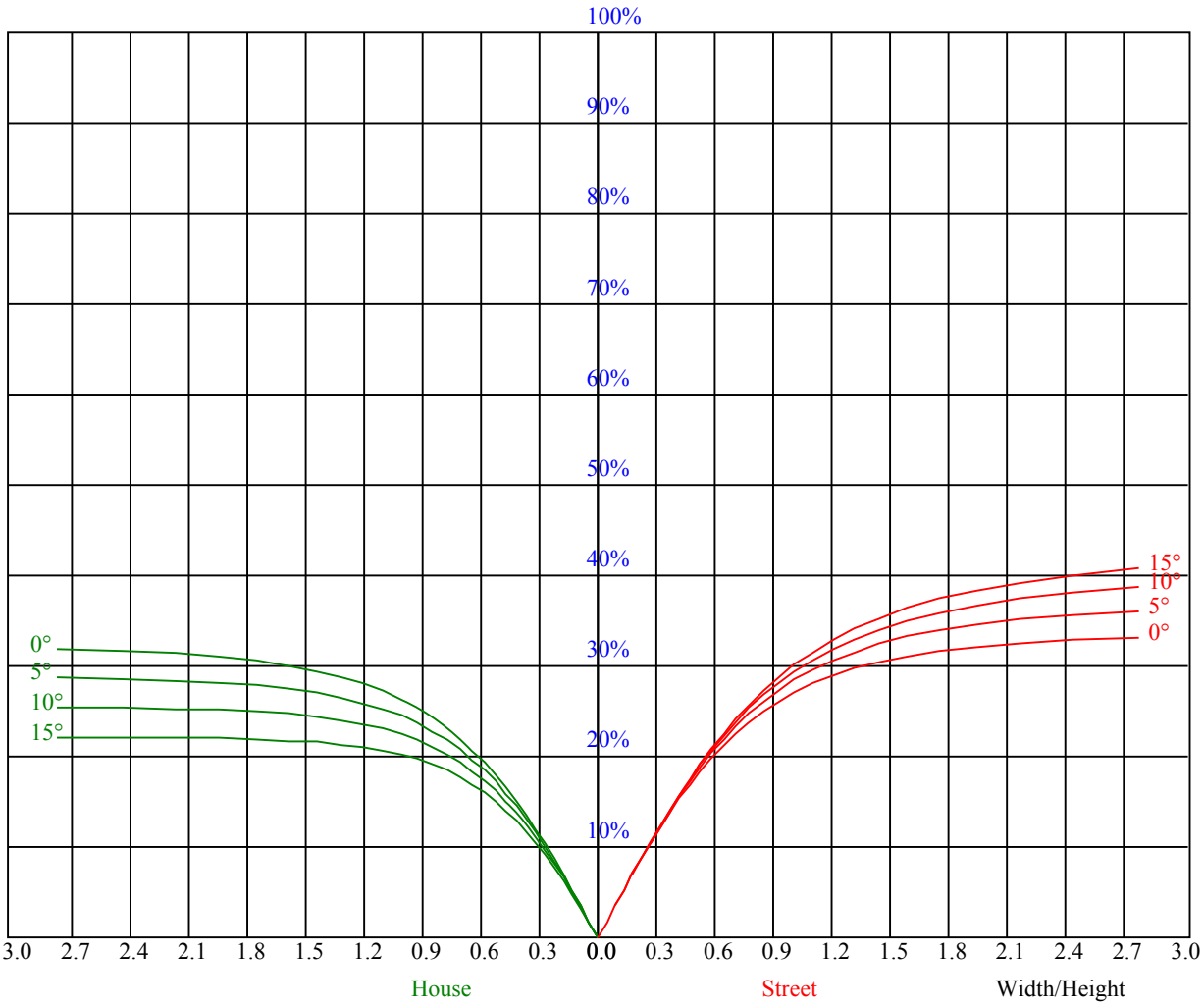


Equipment: GMS-1980 Date: 2023-9-22 Operator: MinLi Ke
Temperature(°C): 25.0 Humidity(%): 65.3% Distance(m): 7.27

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	0.67
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	0.57	0.54	0.59	0.56	0.53	0.57	0.54	0.52	0.55	0.53	0.51	0.49
3	0.55	0.50	0.46	0.54	0.50	0.46	0.52	0.48	0.45	0.51	0.47	0.44	0.49	0.46	0.44	0.42
4	0.49	0.44	0.40	0.49	0.44	0.40	0.47	0.43	0.39	0.45	0.42	0.39	0.44	0.41	0.38	0.37
5	0.45	0.39	0.35	0.44	0.39	0.35	0.42	0.38	0.34	0.41	0.37	0.34	0.40	0.36	0.34	0.32
6	0.40	0.35	0.31	0.40	0.34	0.31	0.39	0.34	0.30	0.37	0.33	0.30	0.36	0.33	0.30	0.28
7	0.37	0.31	0.27	0.36	0.31	0.27	0.35	0.30	0.27	0.34	0.30	0.27	0.33	0.30	0.27	0.25
8	0.34	0.28	0.24	0.33	0.28	0.24	0.32	0.28	0.24	0.31	0.27	0.24	0.31	0.27	0.24	0.23
9	0.31	0.26	0.22	0.31	0.26	0.22	0.30	0.25	0.22	0.29	0.25	0.22	0.28	0.25	0.22	0.21
10	0.29	0.24	0.20	0.28	0.23	0.20	0.28	0.23	0.20	0.27	0.23	0.20	0.26	0.23	0.20	0.19

Coefficient Utilization Curve



Equipment: GMS-1980	Date: 2023-9-22	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	454.38	454.27	453.85	453.21	452.42	451.21	450.15	448.56	446.77
30.0	458.55	458.66	458.34	458.02	457.39	456.60	455.49	454.17	452.63
60.0	456.65	456.60	456.28	455.86	455.12	454.27	453.06	451.89	450.31
90.0	455.22	455.54	455.43	455.01	454.64	453.95	452.95	451.89	450.57
120.0	455.33	455.27	455.17	454.80	454.17	453.48	452.37	451.26	449.51
150.0	454.43	454.64	454.54	454.32	453.85	453.21	452.21	451.36	450.04
180.0	454.38	454.43	454.22	453.85	453.21	452.37	451.31	449.99	448.56
210.0	458.55	458.34	457.76	457.12	456.17	455.17	453.85	452.16	450.31
240.0	456.65	456.44	456.01	455.27	454.64	453.43	452.16	450.73	449.14
270.0	455.22	454.90	454.38	453.64	452.74	451.47	450.15	448.46	446.82
300.0	455.33	455.06	454.69	454.11	453.16	451.95	450.73	449.20	447.29
330.0	454.43	454.01	453.53	452.84	451.79	450.52	448.93	447.45	445.50
360.0	454.38	454.27	453.85	453.21	452.42	451.21	450.15	448.56	446.77

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	444.76	442.91	440.69	438.10	435.51	432.39	429.17	425.57	422.08
30.0	451.05	449.25	447.14	444.76	442.38	439.52	436.35	433.39	430.12
60.0	448.77	446.66	444.39	441.85	439.42	436.88	433.71	430.43	427.37
90.0	448.88	447.08	445.13	442.85	440.26	437.78	435.14	431.81	428.64
120.0	447.66	445.71	443.65	441.16	438.63	435.77	433.02	429.80	426.31
150.0	448.14	446.55	444.39	442.38	439.79	437.30	434.29	431.33	427.90
180.0	446.77	444.86	442.59	440.42	437.62	434.82	432.07	428.85	425.78
210.0	448.46	446.08	443.91	441.06	438.41	435.24	431.76	428.64	424.62
240.0	447.45	445.29	442.75	440.37	437.41	434.61	431.39	428.16	424.36
270.0	444.60	442.22	439.95	437.04	433.92	431.12	427.69	424.36	420.44
300.0	445.55	443.65	441.16	438.36	435.30	432.50	429.22	425.99	422.14
330.0	443.54	441.06	438.57	435.98	432.97	430.22	426.47	423.19	419.33
360.0	444.76	442.91	440.69	438.10	435.51	432.39	429.17	425.57	422.08

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	418.17	414.68	410.51	406.70	402.16	397.24	392.59	387.15	382.13
30.0	426.79	422.93	418.70	414.47	409.61	405.06	399.78	394.92	389.31
60.0	423.56	419.55	415.85	411.09	406.60	401.47	396.19	391.27	385.67
90.0	424.99	421.61	417.54	413.84	409.45	405.43	400.63	395.29	390.48
120.0	422.93	418.81	414.68	409.82	404.75	400.20	394.81	389.42	384.40
150.0	424.83	420.87	417.22	412.89	408.71	403.74	398.51	393.86	388.36
180.0	422.03	418.01	414.31	409.93	405.28	400.94	395.87	391.16	385.83
210.0	420.97	416.43	412.15	407.23	402.05	396.61	391.75	385.93	380.59
240.0	420.23	416.22	412.31	407.60	403.06	397.88	393.01	387.31	381.55
270.0	416.85	412.52	408.18	403.69	399.46	394.28	389.47	383.66	378.48
300.0	418.65	414.26	409.50	404.64	399.99	395.23	389.68	383.92	378.64
330.0	415.27	410.93	406.54	401.47	396.82	391.48	386.51	380.86	374.94
360.0	418.17	414.68	410.51	406.70	402.16	397.24	392.59	387.15	382.13

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	376.31	370.45	364.10	358.29	351.68	345.76	338.84	332.44	325.20
30.0	383.40	377.53	372.03	365.74	359.98	353.32	347.40	340.53	333.66
60.0	380.49	374.57	369.02	362.73	356.23	349.52	343.49	336.36	330.17
90.0	384.77	379.70	373.93	368.28	361.83	355.22	349.30	342.49	336.20
120.0	379.33	373.46	367.22	360.83	355.01	348.51	342.49	335.62	329.33
150.0	383.18	377.42	372.24	366.16	359.88	353.43	347.67	341.80	334.93
180.0	380.01	374.94	368.49	362.73	356.02	349.99	343.02	335.93	328.85
210.0	374.57	368.97	362.62	356.07	349.99	343.07	336.83	329.75	322.72
240.0	376.31	370.08	364.58	358.24	351.79	345.24	339.21	333.03	325.89
270.0	372.56	366.32	360.56	353.74	347.72	340.74	334.51	327.27	320.08
300.0	372.67	366.48	360.83	354.33	348.56	341.96	335.09	328.75	321.72
330.0	369.55	363.36	357.81	351.31	344.60	338.63	331.70	324.73	318.49
360.0	376.31	370.45	364.10	358.29	351.68	345.76	338.84	332.44	325.20

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	317.91	311.41	303.85	297.14	289.58	282.71	275.15	267.65	259.82
30.0	327.21	320.13	313.58	306.12	298.57	291.75	283.77	275.89	269.07
60.0	323.25	316.96	309.72	302.16	295.39	287.52	280.54	272.72	264.79
90.0	329.17	322.88	315.58	308.13	301.42	293.81	285.88	278.96	271.19
120.0	322.35	315.27	308.82	301.53	294.81	286.99	279.27	272.46	264.79
150.0	327.90	321.08	314.69	307.45	300.79	293.33	286.46	278.80	271.19
180.0	322.56	315.37	308.82	301.31	294.50	286.52	278.75	271.82	264.00
210.0	315.27	308.66	302.00	294.55	287.68	279.80	271.93	264.16	257.02
240.0	319.50	312.20	304.86	297.40	290.64	283.13	276.37	268.76	260.78
270.0	312.68	306.02	299.31	291.70	284.03	276.21	269.29	261.30	254.22
300.0	315.16	307.76	301.10	293.65	286.20	278.48	271.77	264.16	257.24
330.0	311.30	304.75	297.30	289.95	283.19	275.47	268.70	260.78	253.69
360.0	317.91	311.41	303.85	297.14	289.58	282.71	275.15	267.65	259.82

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	252.64	245.55	237.36	229.12	220.87	213.58	205.28	197.99	189.74
30.0	261.41	254.28	246.45	238.31	231.07	222.83	215.48	207.13	199.63
60.0	257.61	249.52	241.38	234.24	226.00	218.55	210.25	201.69	194.23
90.0	263.68	256.65	248.73	240.69	233.50	225.36	218.02	209.83	201.42
120.0	257.02	250.10	242.17	235.20	227.32	219.18	211.83	203.54	196.14
150.0	264.32	256.50	249.41	241.54	233.40	226.16	217.86	209.56	202.22
180.0	256.92	248.88	240.90	233.93	225.84	218.44	210.04	202.59	194.34
210.0	248.83	241.59	233.45	225.10	217.60	209.35	201.95	193.60	186.10
240.0	253.59	245.45	238.10	229.75	222.35	214.05	205.65	197.30	190.01
270.0	246.03	238.90	230.86	222.62	215.32	207.08	199.68	191.38	183.93
300.0	249.25	242.12	233.98	225.68	218.34	210.20	202.90	194.76	186.68
330.0	245.66	237.63	229.49	222.14	213.90	206.50	198.30	190.96	182.55
360.0	252.64	245.55	237.36	229.12	220.87	213.58	205.28	197.99	189.74

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	182.50	174.20	165.96	158.56	150.21	142.81	134.51	126.21	118.97
30.0	191.38	183.29	175.10	167.76	160.46	152.22	144.08	136.78	128.64
60.0	185.99	178.59	170.24	162.79	154.65	146.67	138.53	131.23	123.94
90.0	194.23	186.15	178.96	170.71	162.58	155.33	147.20	139.85	131.66
120.0	188.05	180.76	172.56	164.21	156.07	148.83	140.75	133.45	125.31
150.0	194.08	186.84	178.70	170.50	163.10	154.96	147.67	139.32	131.97
180.0	186.20	177.85	170.50	162.26	155.02	146.98	139.85	131.71	123.57
210.0	177.69	169.39	160.99	153.64	145.50	138.10	129.86	122.62	114.59
240.0	181.81	174.41	166.12	158.72	150.37	142.02	134.67	126.58	119.29
270.0	175.58	167.33	159.14	151.69	143.44	136.15	127.96	119.76	112.68
300.0	178.59	171.40	163.26	156.02	148.73	140.48	132.40	124.31	117.23
330.0	174.20	166.86	158.77	151.48	143.28	135.04	127.80	119.71	112.63
360.0	182.50	174.20	165.96	158.56	150.21	142.81	134.51	126.21	118.97

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	111.15	103.43	96.72	89.22	82.56	75.21	68.18	62.05	55.44
30.0	120.45	113.32	105.39	98.41	90.70	83.03	76.27	68.71	62.26
60.0	115.91	107.77	99.79	92.81	85.09	78.33	70.93	64.64	57.61
90.0	124.36	116.22	108.30	101.32	93.50	86.63	79.02	71.51	64.32
120.0	117.02	109.72	101.69	94.45	86.52	79.54	71.88	64.53	57.40
150.0	123.78	115.64	107.50	100.42	92.49	85.62	77.91	71.19	63.95
180.0	116.38	108.30	101.32	93.44	85.73	78.22	71.67	64.59	58.51
210.0	106.76	99.68	91.86	84.99	77.43	69.92	63.42	56.24	49.47
240.0	111.31	103.64	96.88	89.32	81.82	75.16	68.76	61.63	54.81
270.0	104.97	97.94	90.38	83.67	76.32	69.24	62.37	56.39	50.16
300.0	109.35	102.59	94.92	87.37	80.60	73.15	66.59	59.41	53.43
330.0	104.91	97.88	90.11	82.45	75.05	68.55	61.47	55.39	48.94
360.0	111.15	103.43	96.72	89.22	82.56	75.21	68.18	62.05	55.44

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	49.95	43.82	38.79	33.51	28.80	24.58	21.30	18.29	16.12
30.0	55.07	49.10	42.55	36.36	30.87	26.64	22.57	19.50	17.28
60.0	50.95	45.14	38.90	33.77	28.59	24.63	20.93	17.86	16.07
90.0	58.03	51.37	45.66	40.22	34.57	29.33	24.79	21.46	18.34
120.0	51.32	45.35	38.90	33.72	28.49	24.00	20.30	17.76	16.12
150.0	56.87	50.90	44.29	38.85	33.14	28.06	23.78	20.61	17.55
180.0	51.90	46.19	40.01	34.35	29.81	25.26	21.83	18.60	16.44
210.0	43.60	38.05	32.45	27.59	23.52	20.35	18.02	16.54	14.80
240.0	48.36	42.65	36.89	32.08	27.43	23.89	20.51	17.55	16.07
270.0	44.71	39.11	34.46	29.54	25.26	21.93	18.82	16.54	14.48
300.0	46.93	40.75	34.99	30.44	26.06	22.67	19.29	17.12	15.49
330.0	43.39	37.68	32.35	28.17	24.00	20.88	17.92	15.91	14.32
360.0	49.95	43.82	38.79	33.51	28.80	24.58	21.30	18.29	16.12

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.22	12.68	10.99	9.67	8.09	6.71	5.34	4.02	2.75
30.0	15.64	14.16	12.58	11.05	9.46	7.98	6.61	5.23	3.91
60.0	14.53	13.00	11.52	10.04	8.56	7.14	5.71	4.39	3.07
90.0	15.91	14.11	12.47	10.94	9.30	7.88	6.40	5.07	3.70
120.0	14.43	13.00	11.42	9.94	8.40	6.92	5.50	4.23	2.91
150.0	16.01	14.22	12.68	10.99	9.51	7.98	6.50	5.18	3.75
180.0	14.43	12.95	11.52	9.94	8.40	7.03	5.60	4.18	2.96
210.0	13.21	11.73	10.15	8.72	7.08	5.71	4.33	3.07	1.96
240.0	14.38	12.90	11.15	9.57	8.19	6.71	5.34	4.07	2.64
270.0	12.90	11.47	10.04	8.56	7.03	5.71	4.39	3.17	1.90
300.0	13.90	12.47	10.99	9.41	8.09	6.66	5.39	4.12	2.85
330.0	13.00	11.52	10.09	8.51	7.14	5.81	4.44	3.22	2.06
360.0	14.22	12.68	10.99	9.67	8.09	6.71	5.34	4.02	2.75

C/γ(°)	90.0
0.0	1.90
30.0	2.54
60.0	2.43
90.0	2.43
120.0	2.27
150.0	2.38
180.0	2.27
210.0	1.96
240.0	1.96
270.0	1.90
300.0	1.96
330.0	1.90
360.0	1.90