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-DA613S-30090

LumCAT: HX-DA613S-30090
Report No:
Test No:
LampCAT: 2835 12C5B 30090
Lamp flux(lm): 865.0
Number of Lamps: 1
Length(mm): -85
Phm Type: C

Luminaire: HX-DA613S
Voltage(V): 230.700
Current(A): 0.067
Power (W): 7.800
PF: 0.502
Ballast type: LS-8-200 SI1 8/220-240/200CS
Width(mm): -85
Height(mm): 0

Photometric Results

Lumens(lm): 506.15
Efficiency(%): 58.51%
Lumens(lm)/Power(W): 64.89
Central intensity(cd): 233.240
Maximum intensity(cd): 233.451
Angle of maximum intensity: C=120.0 γ=0.0
Beam Angle(50%Imax): [H]Left=45.9 Right=48.1
[V]Left=46.7 Right=47.3
Field angle(10%Imax): [H]Left=69.6 Right=71.7
[V]Left=70.3 Right=70.9
Maximum s/h: C0_180=1.19 C90_270=1.19
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 58.51%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 88.159%

Equipment: GMS-1980
Temperature(°C): 25.0
Date: 2023-9-19
Humidity(%): 65.3%
Operator: MinLi Ke
Distance(m): 7.27

HX-DA613S-30090

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	233.213	.000	.000	.000%	.000%
1.0	233.134	.223	.223	.026%	.026%
2.0	232.971	.669	.892	.077%	.103%
3.0	232.685	1.114	2.006	.129%	.232%
4.0	232.258	1.556	3.562	.180%	.412%
5.0	231.769	1.996	5.558	.231%	.643%
6.0	231.157	2.433	7.991	.281%	.924%
7.0	230.443	2.865	10.856	.331%	1.255%
8.0	229.584	3.292	14.149	.381%	1.636%
9.0	228.628	3.714	17.862	.429%	2.065%
10.0	227.567	4.128	21.991	.477%	2.542%
11.0	226.395	4.536	26.527	.524%	3.067%
12.0	225.114	4.936	31.462	.571%	3.637%
13.0	223.665	5.326	36.788	.616%	4.253%
14.0	222.194	5.707	42.495	.660%	4.913%
15.0	220.573	6.078	48.574	.703%	5.615%
16.0	218.851	6.439	55.012	.744%	6.360%
17.0	216.952	6.787	61.799	.785%	7.144%
18.0	215.103	7.124	68.923	.824%	7.968%
19.0	213.015	7.448	76.371	.861%	8.829%
20.0	210.879	7.758	84.129	.897%	9.726%
21.0	208.439	8.052	92.181	.931%	10.657%
22.0	206.016	8.329	100.510	.963%	11.620%
23.0	203.374	8.590	109.100	.993%	12.613%
24.0	200.696	8.834	117.934	1.021%	13.634%
25.0	197.789	9.061	126.995	1.047%	14.682%
26.0	194.838	9.268	136.263	1.071%	15.753%
27.0	191.891	9.461	145.724	1.094%	16.847%
28.0	188.641	9.634	155.359	1.114%	17.961%
29.0	185.377	9.785	165.144	1.131%	19.092%
30.0	181.955	9.918	175.062	1.147%	20.238%
31.0	178.656	10.035	185.097	1.160%	21.399%
32.0	175.058	10.133	195.231	1.172%	22.570%
33.0	171.490	10.209	205.440	1.180%	23.750%
34.0	167.843	10.269	215.709	1.187%	24.937%
35.0	164.254	10.314	226.023	1.192%	26.130%
36.0	160.475	10.339	236.362	1.195%	27.325%
37.0	156.669	10.343	246.706	1.196%	28.521%

HX-DA613S-30090

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	152.890	10.333	257.039	1.195%	29.715%
39.0	148.816	10.298	267.337	1.191%	30.906%
40.0	144.954	10.246	277.582	1.184%	32.090%
41.0	140.743	10.174	287.756	1.176%	33.267%
42.0	136.708	10.080	297.836	1.165%	34.432%
43.0	132.502	9.972	307.808	1.153%	35.585%
44.0	128.534	9.852	317.661	1.139%	36.724%
45.0	124.209	9.713	327.374	1.123%	37.847%
46.0	120.091	9.554	336.928	1.105%	38.951%
47.0	115.845	9.384	346.312	1.085%	40.036%
48.0	111.669	9.197	355.509	1.063%	41.099%
49.0	107.459	8.999	364.508	1.040%	42.140%
50.0	103.068	8.778	373.285	1.015%	43.154%
51.0	98.879	8.544	381.829	.988%	44.142%
52.0	94.497	8.298	390.127	.959%	45.101%
53.0	90.185	8.034	398.161	.929%	46.030%
54.0	85.793	7.756	405.917	.897%	46.927%
55.0	81.653	7.475	413.392	.864%	47.791%
56.0	77.403	7.187	420.579	.831%	48.622%
57.0	73.206	6.886	427.465	.796%	49.418%
58.0	68.916	6.572	434.037	.760%	50.178%
59.0	64.789	6.251	440.288	.723%	50.900%
60.0	60.706	5.929	446.217	.685%	51.586%
61.0	56.601	5.598	451.815	.647%	52.233%
62.0	52.703	5.267	457.082	.609%	52.842%
63.0	48.717	4.933	462.015	.570%	53.412%
64.0	44.846	4.591	466.606	.531%	53.943%
65.0	41.067	4.252	470.857	.492%	54.434%
66.0	37.376	3.914	474.771	.452%	54.887%
67.0	33.742	3.576	478.347	.413%	55.300%
68.0	30.417	3.250	481.597	.376%	55.676%
69.0	27.122	2.935	484.533	.339%	56.015%
70.0	24.026	2.627	487.160	.304%	56.319%
71.0	21.194	2.337	489.497	.270%	56.589%
72.0	18.684	2.074	491.570	.240%	56.829%
73.0	16.420	1.836	493.406	.212%	57.041%
74.0	14.380	1.619	495.025	.187%	57.228%
75.0	12.716	1.432	496.457	.166%	57.394%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.429	1.282	497.739	.148%	57.542%
77.0	10.368	1.162	498.901	.134%	57.676%
78.0	9.417	1.059	499.960	.122%	57.799%
79.0	8.536	.965	500.924	.112%	57.910%
80.0	7.672	.874	501.798	.101%	58.011%
81.0	6.893	.788	502.586	.091%	58.102%
82.0	6.109	.705	503.291	.082%	58.184%
83.0	5.347	.623	503.914	.072%	58.256%
84.0	4.554	.539	504.453	.062%	58.318%
85.0	3.863	.459	504.912	.053%	58.371%
86.0	3.158	.384	505.296	.044%	58.416%
87.0	2.519	.311	505.607	.036%	58.452%
88.0	1.881	.241	505.848	.028%	58.480%
89.0	1.326	.176	506.024	.020%	58.500%
90.0	1.004	.128	506.151	.015%	58.515%

Zonal flux distribution table

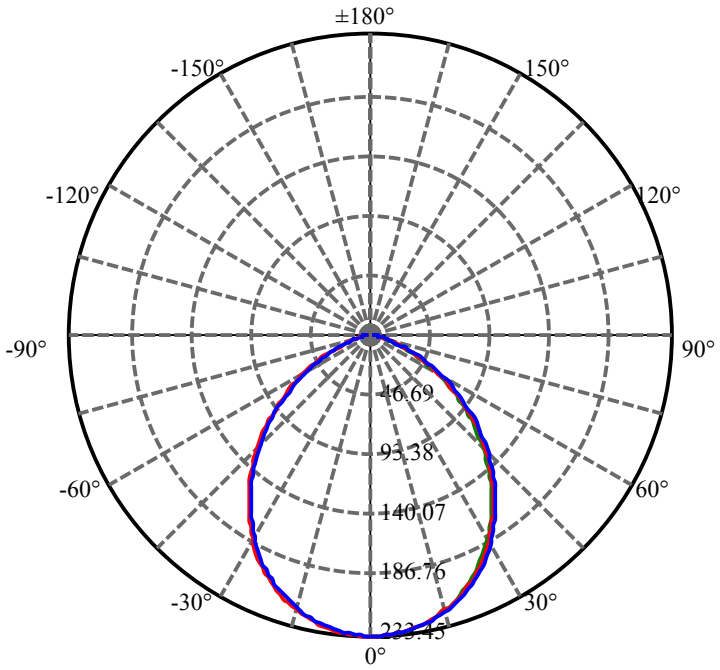
ZONAL LUMEN SUMMARY

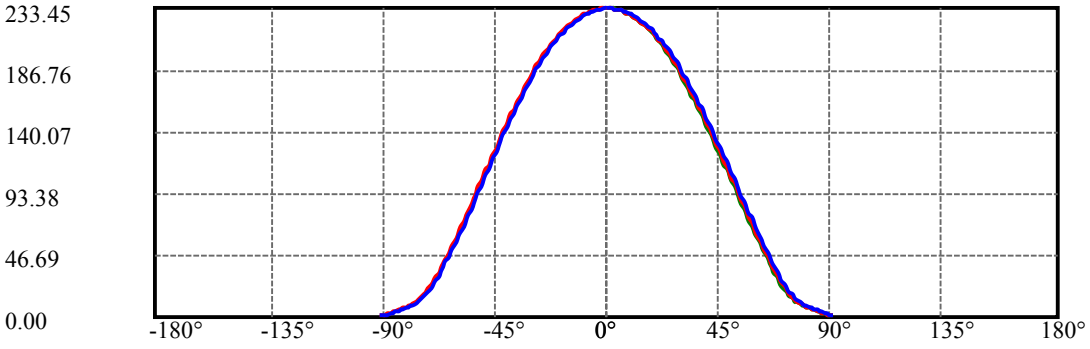
Zone	Lumens	%Lamp	%Fixt
0-30	175.06	20.24%	34.59%
0-40	277.58	32.09%	54.84%
0-60	446.22	51.59%	88.16%
0-90	506.02	58.50%	99.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-180	506.15	58.51%	100.00%

ZONAL LUMEN SUMMARY

0-10	21.99
10-20	62.14
20-30	90.93
30-40	102.52
40-50	95.70
50-60	72.93
60-70	40.94
70-80	14.64
80-90	4.23
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]



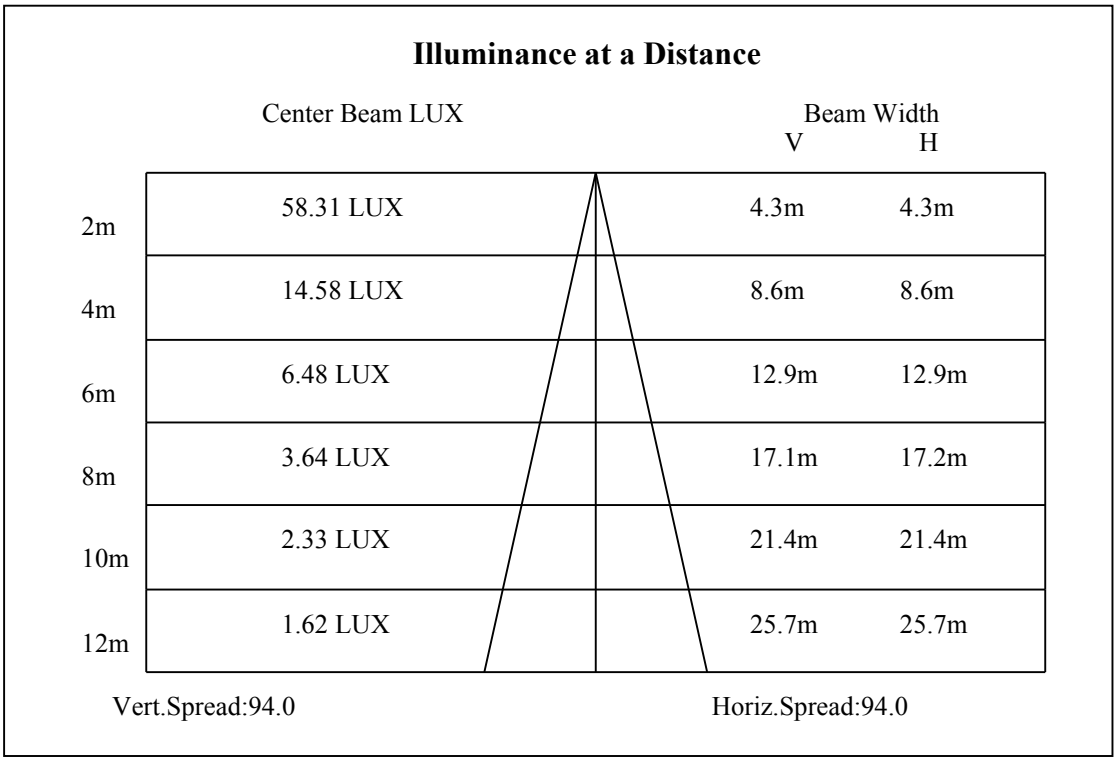


C120(Max):

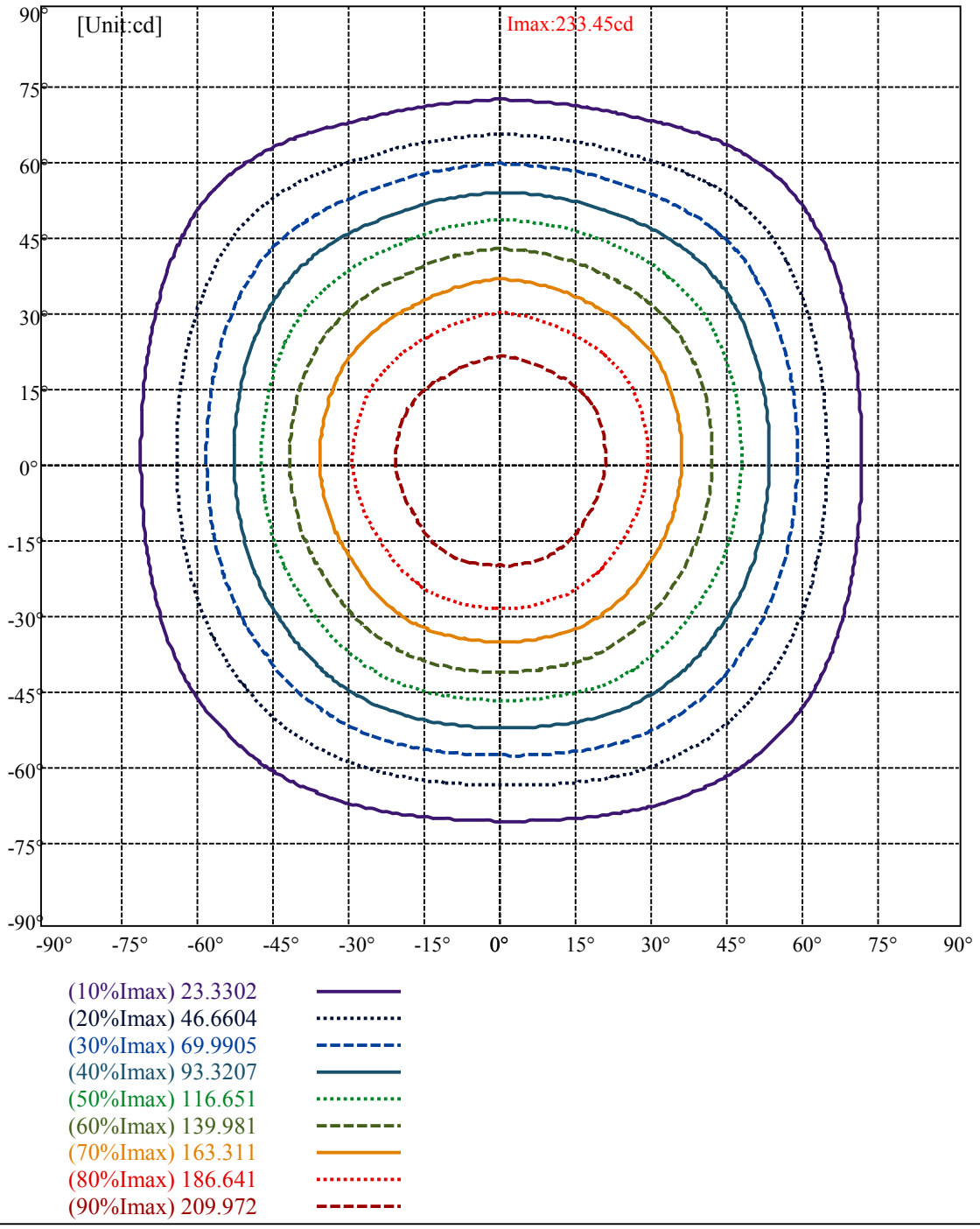
C0/C180:

C90/C270:

Lux distance Curve



ISO-Intensity(V-H)

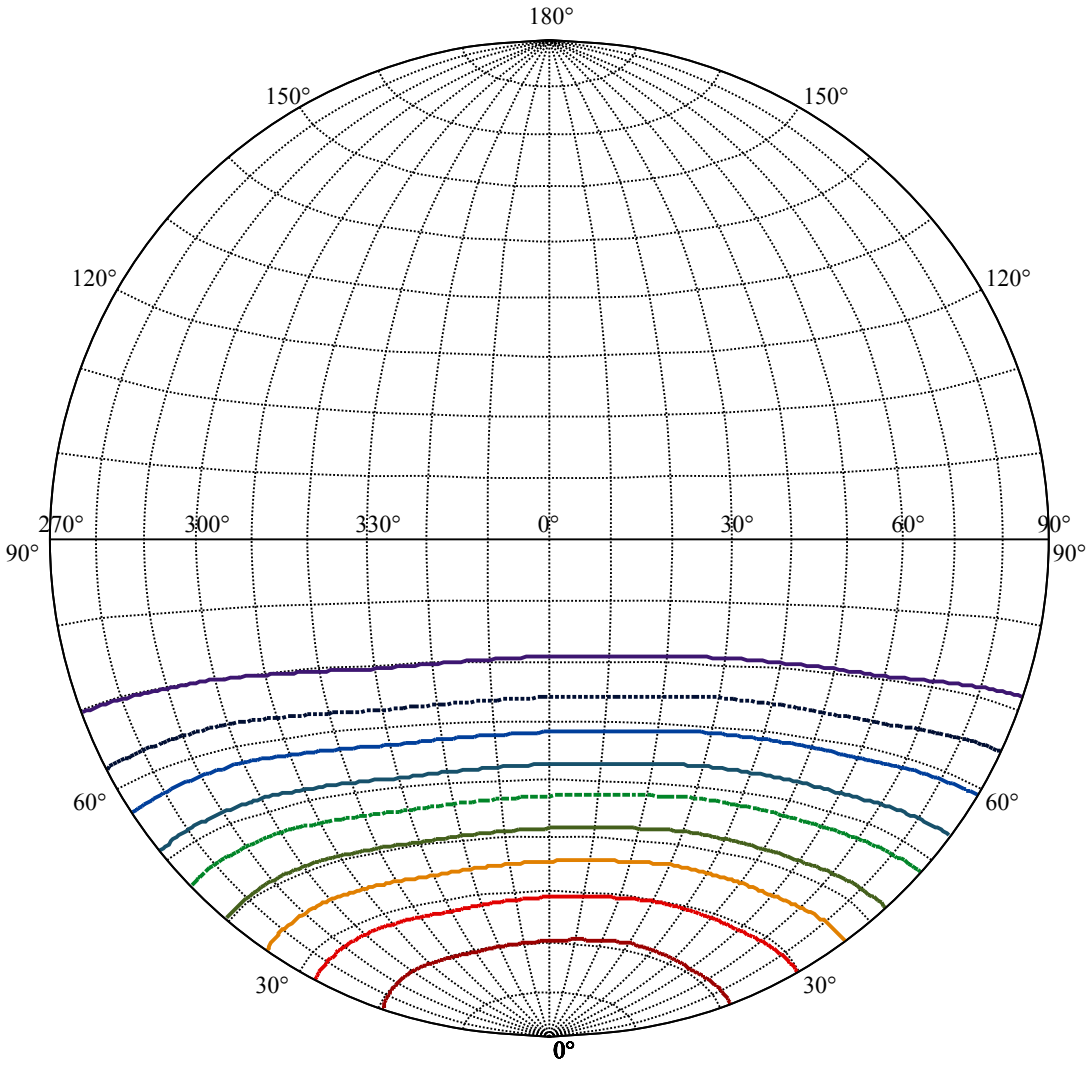


Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2023-9-19
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

ISO candela diagram on circular web



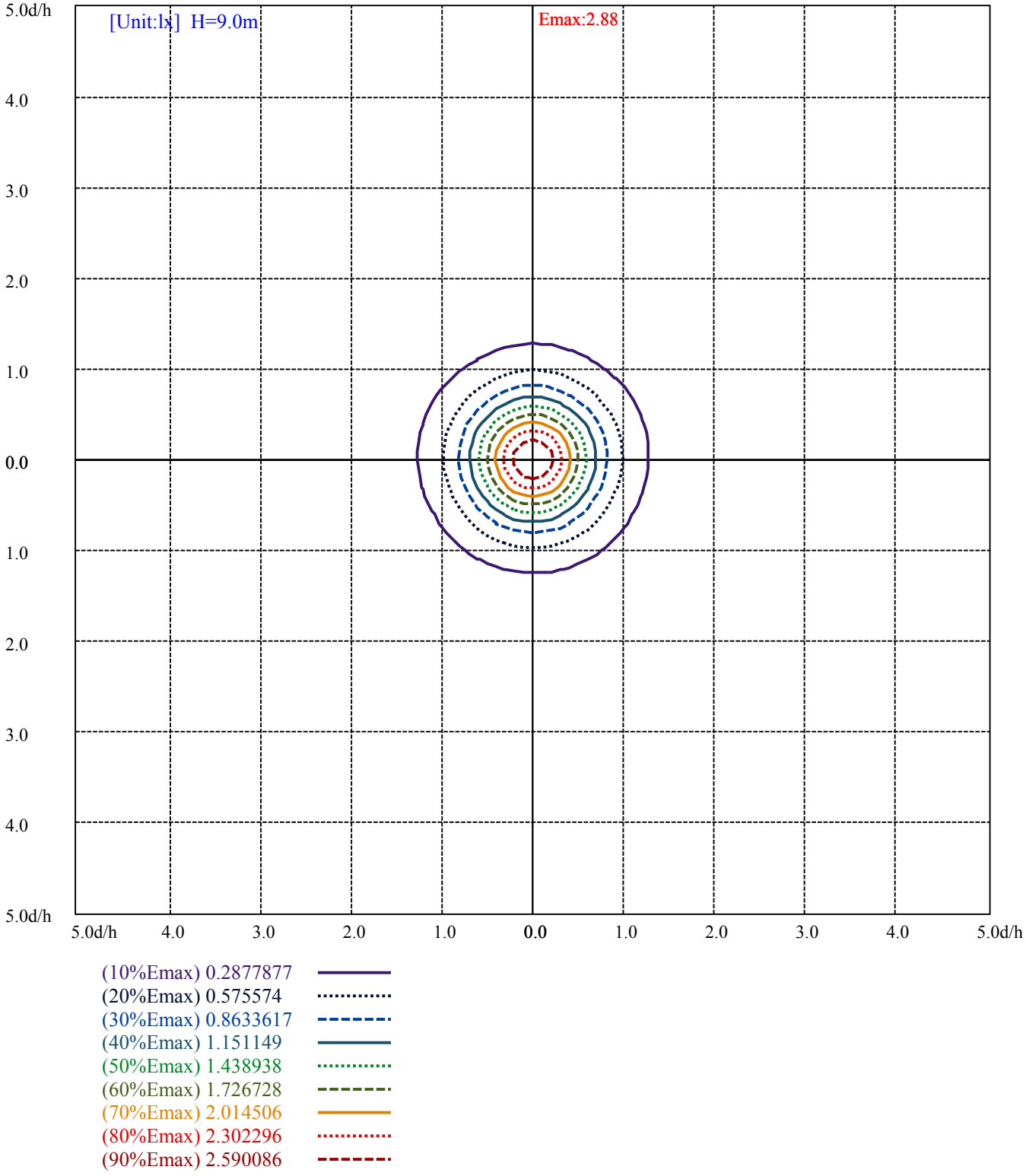
Imax:233.45cd

(10%Imax) 23.3451
(20%Imax) 46.6903
(30%Imax) 70.0354
(40%Imax) 93.3805
(50%Imax) 116.726
(60%Imax) 140.071
(70%Imax) 163.416
(80%Imax) 186.761
(90%Imax) 210.106

Equipment: GMS-1980
Temperature(°C): 25.0
Date: 2023-9-19
Humidity(%): 65.3%
Operator: MinLi Ke
Distance(m): 7.27

HX-DA613S-30090

ISO illuminance diagram

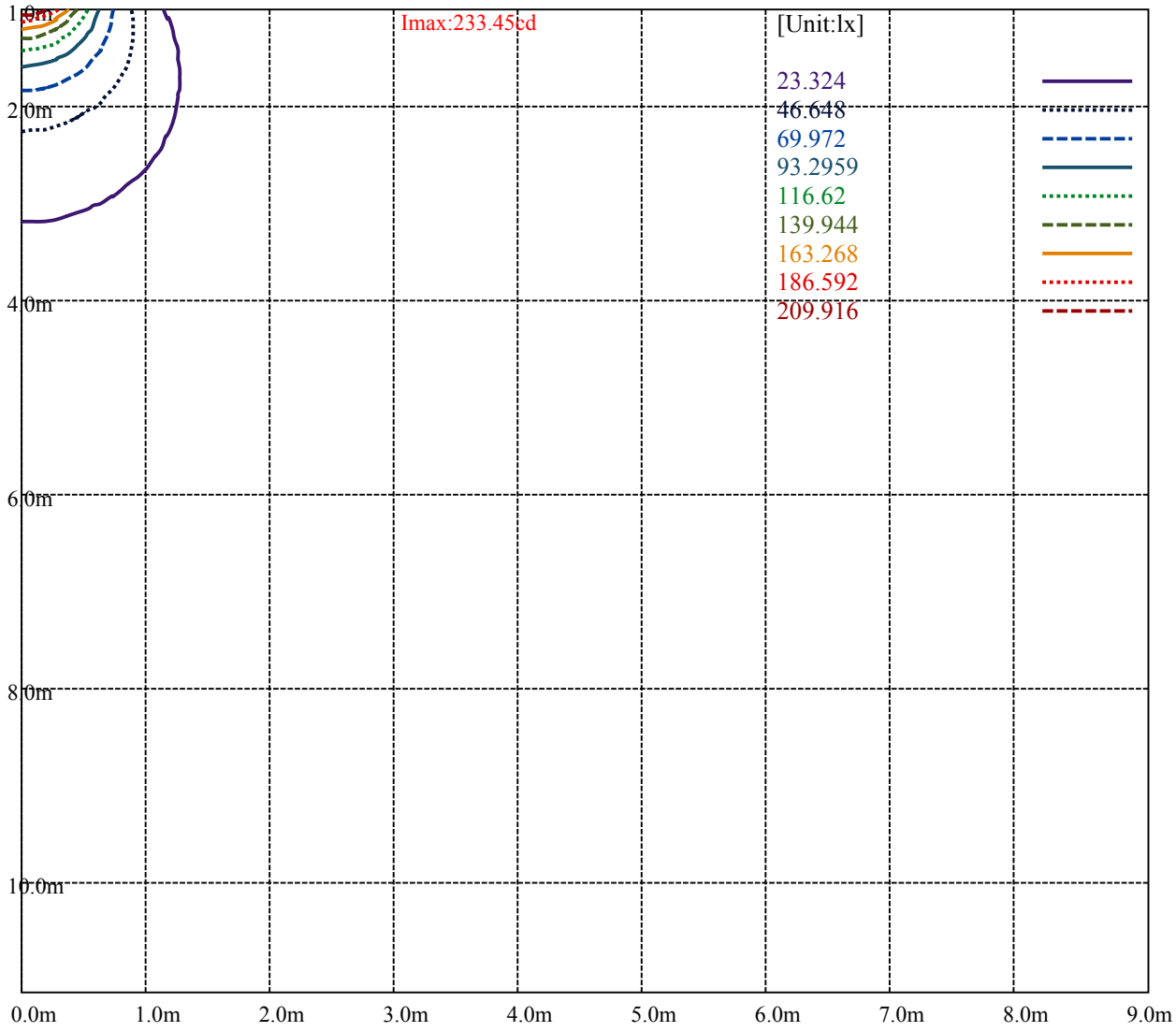


Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2023-9-19
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

Space ISO Lux diagram



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

Date: 2023-9-19
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

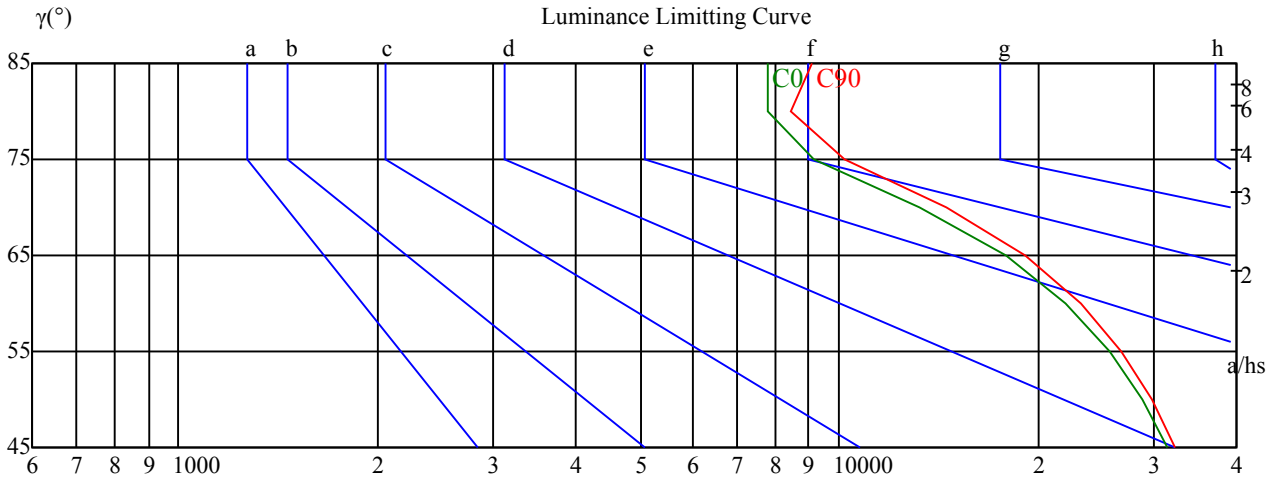
Luminance Limitting Curve(no luminous side)

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	31442	28777	25754	22074	17918	13290	9177	7777	7801
C45	0	0	0	0	0	0	0	0	0
C90	32272	29748	26745	23285	19130	14515	10184	8475	9084

Glare Table

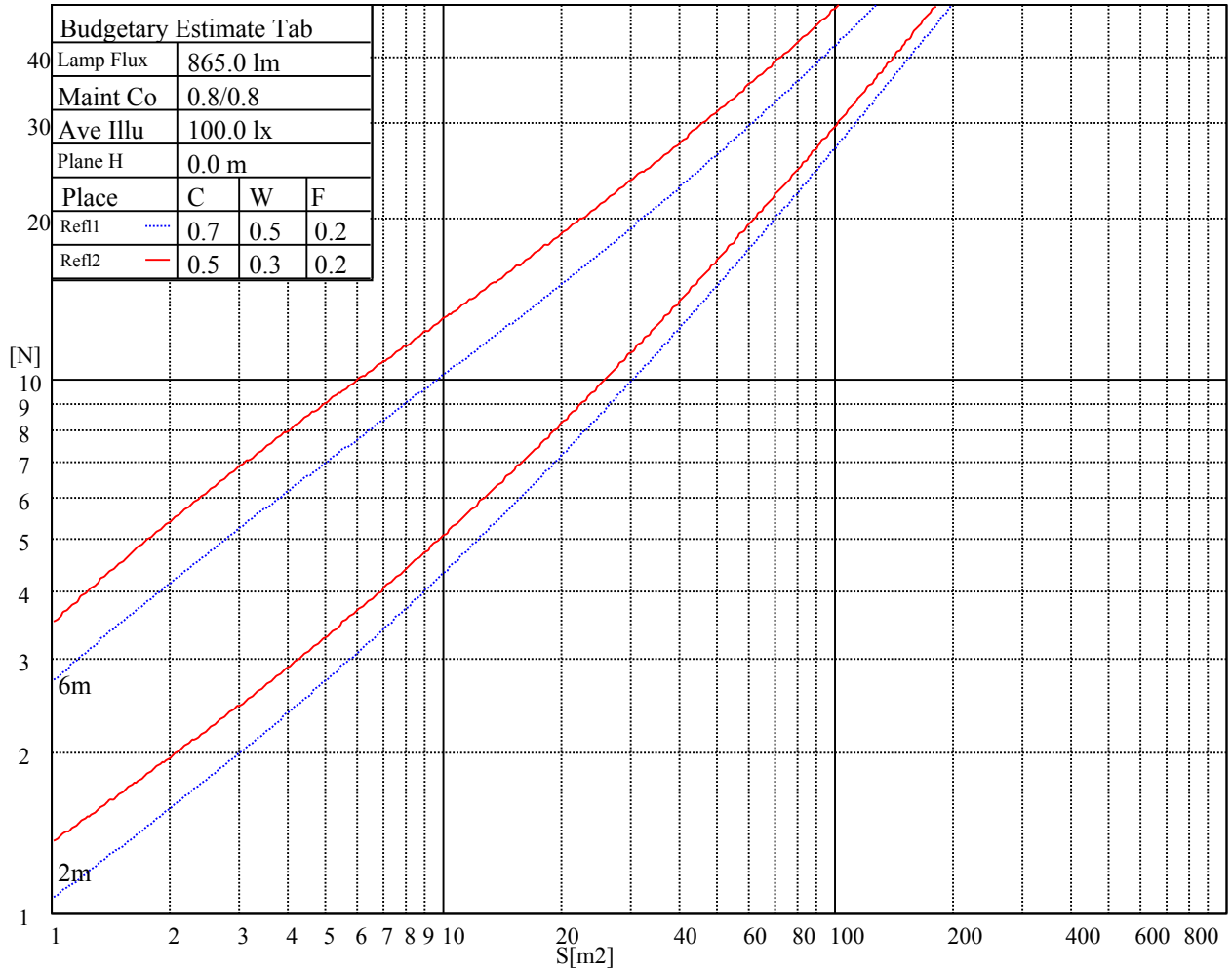
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



Equipment: GMS-1980
Temperature(°C): 25.0
Date: 2023-9-19
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	24.3	25.5	24.6	25.8	26.0	24.3	25.5	24.5	25.7	26.0
	3H	25.0	26.1	25.3	26.4	26.6	25.0	26.1	25.3	26.4	26.7
	4H	25.0	25.9	25.4	26.3	26.6	25.0	26.0	25.4	26.3	26.6
	6H	25.1	26.1	25.5	26.4	26.7	25.2	26.1	25.6	26.4	26.8
	8H	25.2	26.1	25.6	26.5	26.8	25.3	26.2	25.6	26.5	26.8
	12H	25.1	25.8	25.5	26.2	26.6	25.1	25.8	25.6	26.2	26.6
4H	2H	24.5	25.5	24.9	25.8	26.1	24.5	25.4	24.9	25.8	26.1
	3H	25.4	26.1	25.8	26.4	26.8	25.3	26.0	25.8	26.4	26.8
	4H	25.6	26.3	26.0	26.7	27.1	25.6	26.3	26.0	26.7	27.1
	6H	25.8	26.5	26.3	26.9	27.3	25.8	26.5	26.3	26.9	27.3
	8H	25.8	26.1	26.3	26.6	27.1	25.8	26.2	26.3	26.6	27.1
	12H	25.8	26.2	26.3	26.7	27.2	25.9	26.2	26.4	26.7	27.2
8H	4H	25.6	26.0	26.1	26.5	27.0	25.6	26.0	26.1	26.5	27.0
	6H	25.9	26.3	26.4	26.8	27.3	25.9	26.3	26.4	26.7	27.3
	8H	26.0	26.4	26.5	26.9	27.4	26.0	26.4	26.5	26.9	27.4
	12H	26.2	26.5	26.7	27.0	27.5	26.2	26.6	26.7	27.0	27.5
12H	4H	25.6	26.0	26.1	26.5	27.0	25.6	26.0	26.1	26.5	27.0
	6H	25.9	26.3	26.4	26.8	27.3	25.9	26.3	26.4	26.8	27.3
	8H	26.1	26.5	26.6	27.0	27.5	26.1	26.5	26.6	27.0	27.5
Variation with the observer position at spacings:											
S = 1.0H		0.5/-0.5					0.5/-0.5				
S = 1.5H		0.7/-1.4					0.7/-1.3				
S = 2.0H		2.1/-2.1					2.1/-2.1				
Standard tables:		BK2					BK2				
Uncorrected UGR		6.1					6.1				
According 1000lm											

Budgetary Estimate Table



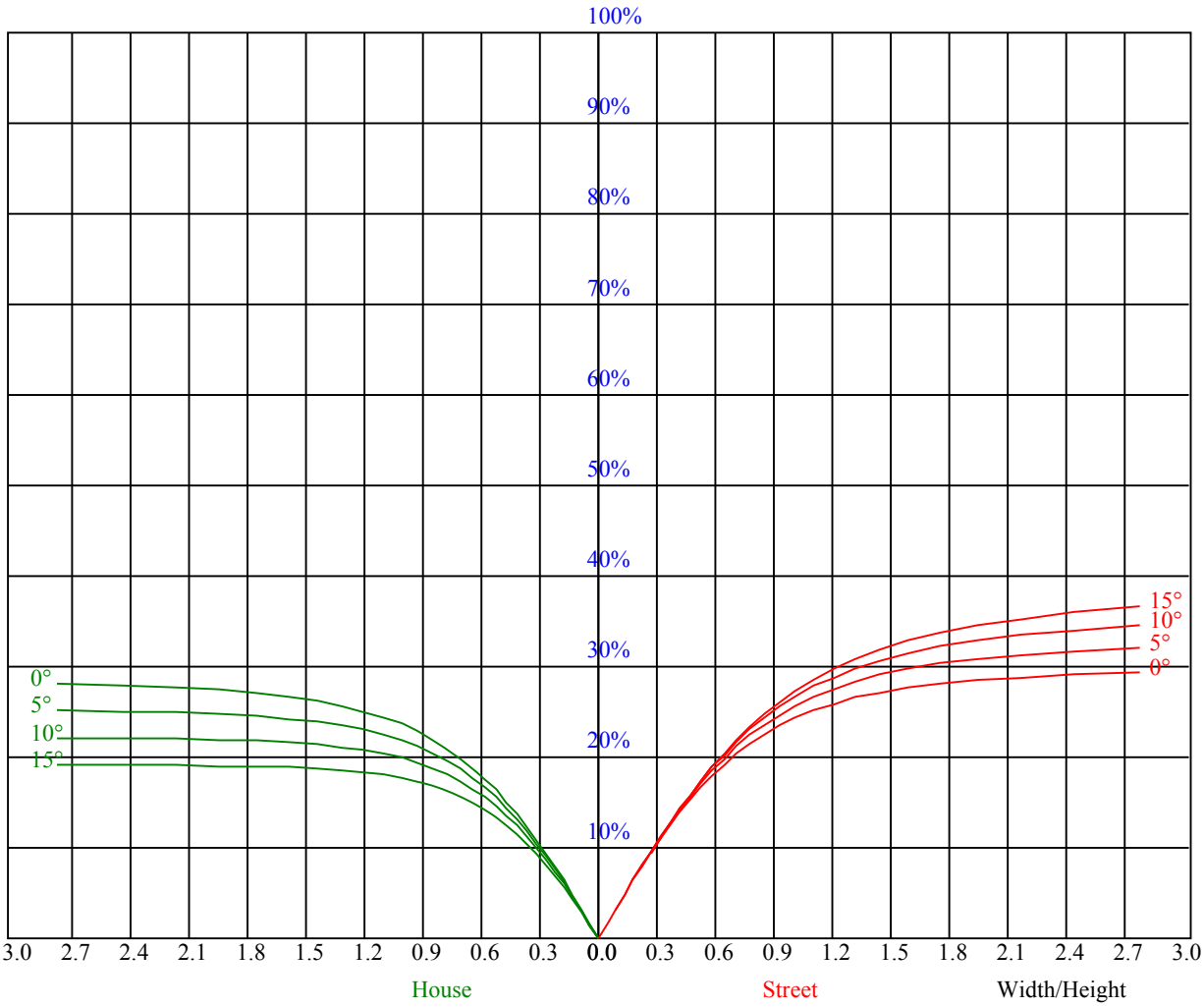
Equipment: GMS-1980	Date: 2023-9-19	Operator: MinLi Ke
Temperature(°C): 25.0	Humidity(%): 65.3%	Distance(m): 7.27

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	0.70	0.70	0.70	0.68	0.68	0.68	0.65	0.65	0.65	0.62	0.62	0.62	0.60	0.60	0.60	0.59
1	0.62	0.60	0.58	0.61	0.59	0.57	0.58	0.57	0.55	0.56	0.55	0.54	0.54	0.53	0.52	0.51
2	0.55	0.52	0.49	0.54	0.51	0.48	0.52	0.50	0.47	0.50	0.48	0.46	0.49	0.47	0.45	0.44
3	0.49	0.45	0.42	0.48	0.44	0.41	0.47	0.43	0.41	0.45	0.42	0.40	0.44	0.41	0.39	0.38
4	0.44	0.40	0.36	0.43	0.39	0.36	0.42	0.38	0.35	0.41	0.37	0.35	0.39	0.37	0.34	0.33
5	0.40	0.35	0.31	0.39	0.35	0.31	0.38	0.34	0.31	0.37	0.33	0.31	0.36	0.33	0.30	0.29
6	0.36	0.31	0.28	0.36	0.31	0.28	0.35	0.30	0.27	0.34	0.30	0.27	0.33	0.30	0.27	0.26
7	0.33	0.28	0.25	0.32	0.28	0.25	0.32	0.28	0.25	0.31	0.27	0.24	0.30	0.27	0.24	0.23
8	0.30	0.26	0.22	0.30	0.25	0.22	0.29	0.25	0.22	0.28	0.25	0.22	0.28	0.24	0.22	0.21
9	0.28	0.23	0.20	0.28	0.23	0.20	0.27	0.23	0.20	0.26	0.23	0.20	0.26	0.22	0.20	0.19
10	0.26	0.21	0.18	0.25	0.21	0.18	0.25	0.21	0.18	0.24	0.21	0.18	0.24	0.21	0.18	0.17

HX-DA613S-30090

Coefficient Utilization Curve



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

Date: 2023-9-19
Humidity(%): 65.3%

Operator: MinLi Ke
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	233.24	233.19	233.03	232.71	232.39	231.97	231.44	230.60	229.70
30.0	233.13	233.24	233.24	233.08	232.76	232.45	231.92	231.34	230.60
60.0	233.08	232.98	232.87	232.61	232.34	231.92	231.28	230.65	229.75
90.0	232.98	233.03	232.87	232.71	232.39	231.97	231.50	230.97	230.17
120.0	233.45	233.29	233.13	232.92	232.45	231.92	231.34	230.65	229.75
150.0	233.40	233.40	233.35	233.08	232.76	232.24	231.76	231.02	230.28
180.0	233.24	233.13	232.92	232.66	232.13	231.71	231.02	230.33	229.38
210.0	233.13	232.87	232.61	232.18	231.65	230.97	230.23	229.49	228.43
240.0	233.08	233.03	232.87	232.39	231.87	231.34	230.70	229.96	229.17
270.0	232.98	232.82	232.45	232.13	231.60	231.07	230.39	229.59	228.75
300.0	233.45	233.35	233.19	232.92	232.50	232.02	231.34	230.54	229.75
330.0	233.40	233.29	233.13	232.82	232.24	231.65	230.97	230.17	229.28
360.0	233.24	233.19	233.03	232.71	232.39	231.97	231.44	230.60	229.70

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	228.85	227.90	226.58	225.31	223.88	222.41	220.66	219.02	217.12
30.0	229.75	228.96	227.80	226.74	225.36	224.10	222.51	220.87	219.02
60.0	228.91	227.85	226.84	225.52	224.15	222.72	221.14	219.60	217.86
90.0	229.33	228.43	227.32	226.16	224.78	223.51	221.93	220.45	218.65
120.0	228.85	227.69	226.63	225.31	223.73	222.30	220.61	218.97	217.12
150.0	229.43	228.43	227.37	226.05	224.68	223.25	221.61	220.08	218.18
180.0	228.43	227.37	226.26	224.84	223.51	221.88	220.45	218.60	216.80
210.0	227.43	226.16	224.89	223.57	221.98	220.50	218.76	217.07	215.11
240.0	228.11	227.11	225.89	224.62	222.99	221.56	219.92	218.12	216.17
270.0	227.53	226.32	225.05	223.73	222.30	220.61	219.08	217.07	215.11
300.0	228.75	227.74	226.42	225.21	223.67	222.19	220.50	218.60	216.54
330.0	228.17	226.84	225.68	224.31	222.93	221.30	219.71	217.75	215.75
360.0	228.85	227.90	226.58	225.31	223.88	222.41	220.66	219.02	217.12

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	215.43	213.26	211.15	209.09	206.76	204.49	201.79	198.99	196.03
30.0	217.44	215.48	213.63	211.25	209.03	206.44	204.01	201.16	198.09
60.0	215.85	214.05	211.78	209.35	207.08	204.33	201.85	198.83	195.87
90.0	216.91	214.90	212.89	210.72	208.66	206.55	203.96	201.26	198.78
120.0	215.16	213.00	210.72	208.13	205.65	202.85	200.26	197.19	194.08
150.0	216.17	214.37	212.26	210.04	207.29	204.86	201.90	199.04	196.03
180.0	215.01	212.89	210.94	208.56	206.07	203.54	201.21	198.52	195.98
210.0	213.00	210.62	208.24	205.54	203.01	200.05	197.35	194.08	190.85
240.0	214.48	212.36	210.20	207.55	205.07	202.22	199.20	196.40	193.23
270.0	213.26	211.09	209.09	206.65	204.12	201.48	199.10	196.14	193.23
300.0	214.79	212.63	210.41	207.82	205.39	202.48	199.52	196.77	193.65
330.0	213.74	211.52	209.24	206.55	204.07	201.21	198.20	195.08	192.23
360.0	215.43	213.26	211.15	209.09	206.76	204.49	201.79	198.99	196.03

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	193.07	189.74	186.73	183.29	180.18	176.53	172.78	169.34	165.48
30.0	195.34	192.23	188.90	185.88	182.50	179.33	175.84	172.14	168.81
60.0	193.12	189.90	186.94	183.51	180.39	176.85	173.25	169.50	166.12
90.0	195.82	192.60	189.64	186.20	183.08	179.44	175.68	172.35	168.60
120.0	191.22	188.00	184.93	181.34	178.17	174.47	170.71	166.91	163.42
150.0	193.18	190.27	186.89	183.45	180.33	176.79	173.09	169.76	165.91
180.0	193.07	189.58	186.10	182.50	179.22	175.37	171.93	167.97	164.48
210.0	187.84	184.46	181.39	177.74	174.10	170.71	166.91	162.95	159.56
240.0	190.27	186.84	183.29	179.86	176.69	173.09	169.71	166.28	162.42
270.0	190.16	186.78	183.29	179.54	176.26	172.46	168.97	165.11	161.62
300.0	190.69	187.36	183.93	180.81	177.27	173.67	170.34	166.96	163.16
330.0	188.90	185.94	182.50	179.33	175.68	171.98	168.65	164.85	161.47
360.0	193.07	189.74	186.73	183.29	180.18	176.53	172.78	169.34	165.48

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	161.99	158.14	154.54	150.53	146.30	142.12	138.42	134.30	130.49
30.0	165.01	161.62	157.82	153.80	150.26	146.09	141.70	137.95	133.82
60.0	162.26	158.98	155.07	151.05	147.30	143.02	139.16	135.04	131.23
90.0	165.17	161.36	157.87	153.75	149.63	145.45	141.59	137.31	133.61
120.0	159.67	156.13	152.11	148.04	144.24	139.90	135.99	131.71	127.96
150.0	162.47	158.66	154.70	151.05	146.88	143.18	138.79	134.99	130.86
180.0	160.62	156.71	153.06	148.89	145.03	140.59	136.25	131.97	128.12
210.0	155.55	151.85	147.67	143.44	139.58	135.14	131.23	126.85	122.88
240.0	158.45	154.33	150.63	146.51	142.70	138.47	134.72	130.39	125.95
270.0	157.71	153.59	149.89	145.61	141.86	137.63	133.35	128.86	124.94
300.0	159.25	155.18	151.53	147.41	143.71	139.58	135.83	131.60	127.32
330.0	157.55	153.48	149.79	145.72	141.96	137.73	133.45	129.07	125.21
360.0	161.99	158.14	154.54	150.53	146.30	142.12	138.42	134.30	130.49

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	126.16	121.83	117.91	113.37	109.46	104.97	100.95	96.56	92.12
30.0	130.07	125.84	121.46	117.65	113.16	109.19	104.86	100.79	96.19
60.0	127.01	123.15	118.76	114.43	110.09	106.18	101.53	97.36	92.76
90.0	129.49	125.63	121.24	116.80	112.84	108.51	104.60	100.05	95.35
120.0	123.52	119.18	114.85	110.99	107.13	102.69	98.15	94.08	89.64
150.0	126.53	122.20	118.34	113.95	110.09	105.76	101.74	97.14	92.60
180.0	123.62	119.66	115.17	111.20	106.82	102.32	98.15	93.39	89.32
210.0	118.34	113.74	109.25	105.34	101.27	96.77	92.18	88.16	83.67
240.0	121.46	117.39	113.37	108.82	104.44	99.84	95.72	91.12	87.15
270.0	120.45	116.43	112.00	107.98	103.49	98.83	94.77	90.22	86.15
300.0	122.99	119.08	115.17	110.73	106.34	101.90	97.99	93.66	89.74
330.0	120.87	116.96	112.63	108.77	104.38	99.84	95.93	91.44	87.52
360.0	126.16	121.83	117.91	113.37	109.46	104.97	100.95	96.56	92.12

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	87.79	83.82	79.28	75.32	70.82	66.91	62.63	58.30	54.54
30.0	91.70	87.37	83.45	79.49	75.05	70.56	66.54	62.16	57.77
60.0	88.37	84.35	79.86	75.84	71.35	67.49	63.16	58.88	55.02
90.0	90.91	87.05	82.61	78.65	74.68	70.35	66.07	61.57	57.77
120.0	85.25	81.34	76.90	72.99	68.71	64.48	60.73	56.45	52.75
150.0	88.63	84.35	80.44	75.95	71.51	67.18	63.37	59.14	55.39
180.0	84.83	80.34	76.27	71.88	67.49	63.69	59.46	55.71	51.64
210.0	79.23	75.26	70.77	66.86	62.42	58.24	54.02	50.42	46.77
240.0	82.66	78.70	74.26	69.77	65.80	61.47	57.66	53.49	49.36
270.0	81.60	77.11	73.15	68.76	64.43	60.57	56.34	52.64	48.73
300.0	85.46	81.55	77.17	72.73	68.76	64.43	60.62	56.34	52.69
330.0	83.08	78.59	74.68	70.24	65.96	62.10	57.87	54.12	50.00
360.0	87.79	83.82	79.28	75.32	70.82	66.91	62.63	58.30	54.54

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	50.47	46.93	42.97	39.16	35.78	32.19	29.07	25.79	22.99
30.0	53.96	49.79	46.03	41.91	37.84	33.93	30.55	27.32	23.94
60.0	50.79	45.61	42.81	38.69	34.78	31.34	27.69	24.74	21.62
90.0	53.54	50.00	45.88	41.91	38.53	34.88	31.66	28.17	25.32
120.0	48.68	44.92	41.01	37.00	33.14	29.91	26.43	23.68	20.77
150.0	51.80	47.67	43.55	39.69	36.31	32.66	29.49	26.00	22.78
180.0	47.62	44.03	40.33	37.00	33.40	30.34	27.17	24.15	21.41
210.0	42.71	39.22	35.41	31.76	28.22	25.32	22.25	19.71	17.28
240.0	45.77	41.81	38.11	34.78	31.24	28.06	24.79	21.67	19.29
270.0	44.87	41.44	37.68	34.46	31.02	28.12	25.11	22.20	19.50
300.0	48.57	44.50	40.64	37.21	33.40	30.13	26.53	23.26	20.56
330.0	45.82	42.23	38.37	34.94	31.24	28.12	24.74	21.62	18.87
360.0	50.47	46.93	42.97	39.16	35.78	32.19	29.07	25.79	22.99

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	20.08	17.44	15.22	13.48	12.00	10.78	9.57	8.67	7.66
30.0	21.14	18.34	16.07	14.06	12.47	11.26	10.46	9.51	8.62
60.0	19.08	16.60	14.48	12.84	11.57	10.62	9.78	8.77	7.98
90.0	22.20	19.40	16.91	14.96	13.11	11.68	10.31	9.35	8.35
120.0	18.39	16.01	14.01	12.31	11.20	10.31	9.41	8.46	7.61
150.0	20.19	17.65	15.64	13.74	12.10	10.89	9.94	9.09	8.30
180.0	19.13	16.91	14.80	12.90	11.47	10.15	9.09	8.25	7.45
210.0	15.12	13.48	11.84	10.94	10.15	9.35	8.51	7.61	6.77
240.0	16.91	15.12	13.21	11.84	10.78	9.99	9.20	8.35	7.51
270.0	17.28	15.33	13.32	11.63	10.41	9.41	8.51	7.77	6.87
300.0	17.97	15.91	14.01	12.37	11.20	10.25	9.41	8.56	7.77
330.0	16.70	14.85	13.05	11.52	10.68	9.72	8.83	8.03	7.19
360.0	20.08	17.44	15.22	13.48	12.00	10.78	9.57	8.67	7.66

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.92	6.24	5.29	4.49	3.86	3.12	2.54	1.85	1.32
30.0	7.82	7.03	6.18	5.34	4.55	3.86	3.17	2.48	1.85
60.0	7.08	6.45	5.60	4.81	4.02	3.33	2.64	2.06	1.43
90.0	7.51	6.71	5.97	5.13	4.49	3.70	3.07	2.38	1.74
120.0	6.92	6.13	5.39	4.55	3.91	3.28	2.59	1.96	1.32
150.0	7.45	6.66	5.87	5.02	4.33	3.65	3.01	2.33	1.69
180.0	6.71	5.97	5.23	4.49	3.81	3.12	2.43	1.85	1.32
210.0	6.08	5.39	4.55	3.86	3.22	2.54	1.85	1.27	0.90
240.0	6.77	5.87	5.13	4.44	3.70	3.01	2.43	1.69	1.22
270.0	6.08	5.34	4.65	3.86	3.28	2.54	1.96	1.37	0.90
300.0	7.03	5.97	5.39	4.55	3.81	3.07	2.48	1.85	1.27
330.0	6.34	5.55	4.92	4.12	3.38	2.70	2.06	1.48	0.95
360.0	6.92	6.24	5.29	4.49	3.86	3.12	2.54	1.85	1.32

C/γ(°)	90.0
0.0	0.90
30.0	1.27
60.0	1.11
90.0	1.06
120.0	1.00
150.0	1.16
180.0	1.06
210.0	0.85
240.0	0.90
270.0	0.95
300.0	0.85
330.0	0.95
360.0	0.90