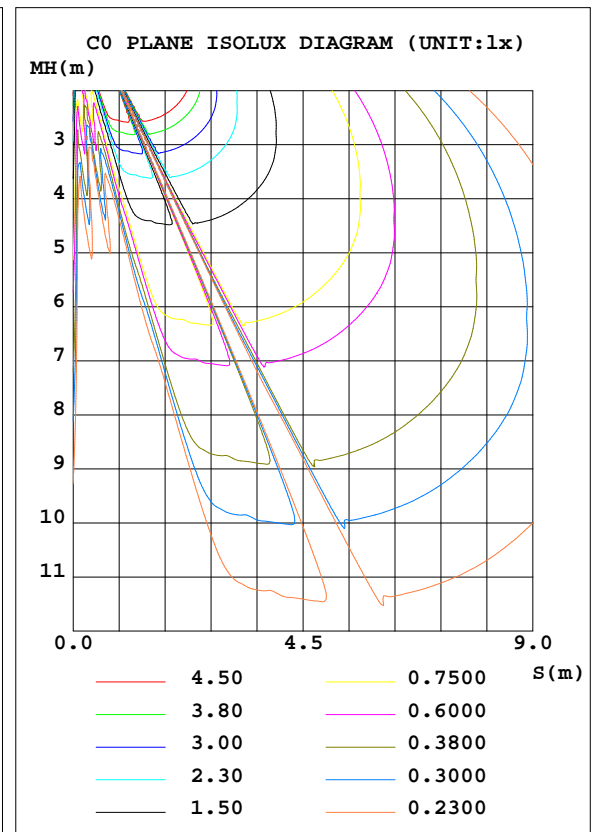
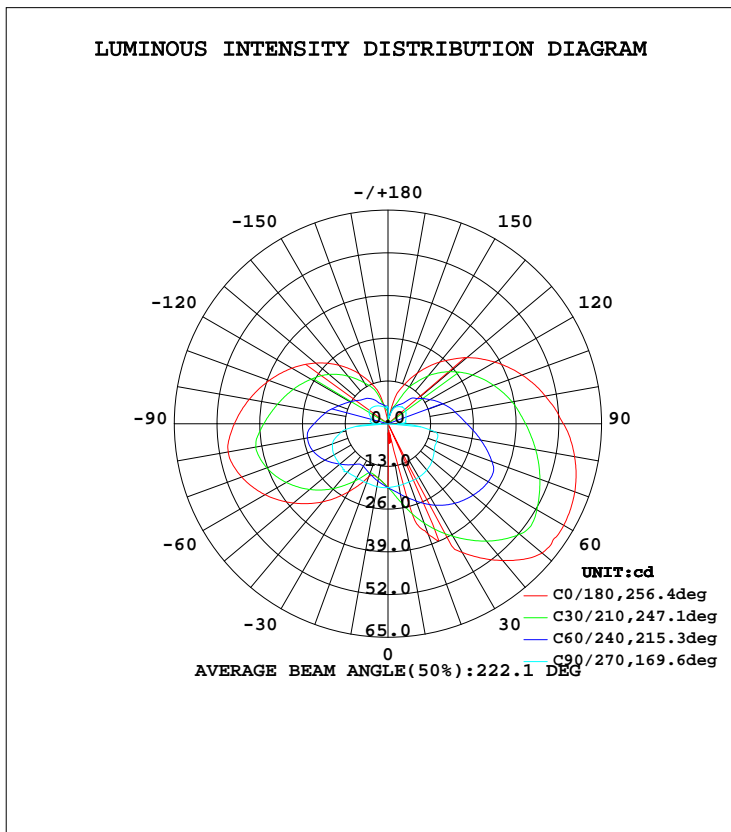


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.9V I:0.1345A P:16.06W PF:0.9883 Lamp Flux:346.057x1 lm		
NAME: LOUS 0512L30D1BK	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:201901121A0001
MFR.: AFX	SUR.:0.05	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 21.54 lm/W			
MODEL	LOUS 0512L30D1BK	I _{max} (cd)	62.55	S/MH(C0/180)	0.02
NOMINAL POWER(W)	16	LOR(%)	100.0	S/MH(C90/270)	1.47
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	346.06	η UP, DN(C0-180)	19.1, 30.7
NOMINAL FLUX(lm)	346.057	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	19.4, 30.8
LAMPS INSIDE	1	η up(%)	38.5	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120.8	η down(%)	61.5	CIBSE SHR MAX	1.15



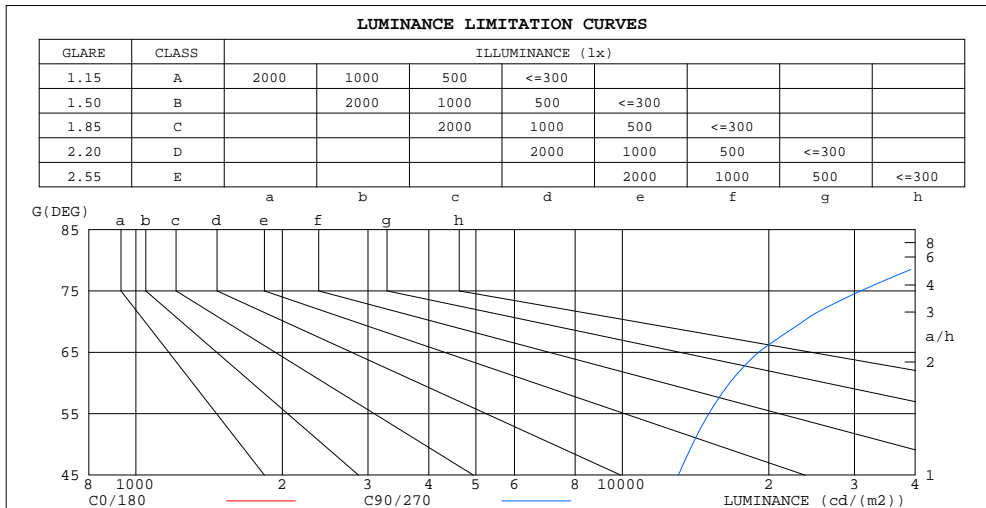
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	§lum,lamp
5	2.826	21.03	19.26	18.22	17.91	18.20	19.50	21.40	0- 5	0.4572	0.4572	0.13,0.13
10	2.941	23.30	19.12	17.29	16.86	17.24	19.45	23.93	5- 10	1.389	1.846	0.53,0.53
15	28.24	25.97	18.97	16.73	16.32	16.41	19.26	26.92	10- 15	2.399	4.245	1.23,1.23
20	35.80	28.88	18.87	16.46	17.18	15.73	19.15	30.32	15- 20	3.635	7.880	2.28,2.28
25	1.659	31.69	18.86	17.07	20.41	15.70	19.06	33.64	20- 25	4.937	12.82	3.7,3.7
30	45.22	34.43	18.81	19.16	23.85	16.92	18.96	37.01	25- 30	6.419	19.24	5.56,5.56
35	49.96	37.04	18.66	21.96	27.48	18.79	19.07	40.30	30- 35	8.244	27.48	7.94,7.94
40	54.34	39.51	18.40	24.69	31.05	20.78	19.21	43.53	35- 40	10.11	37.59	10.9,10.9
45	58.33	41.81	18.07	27.38	34.37	22.99	19.38	46.70	40- 45	12.06	49.65	14.3,14.3
50	61.21	43.76	17.56	29.97	37.55	25.23	19.21	49.59	45- 50	14.00	63.65	18.4,18.4
55	61.43	45.26	16.94	32.29	40.53	27.33	19.09	51.95	50- 55	15.80	79.45	23,23
60	61.77	45.32	16.29	34.31	43.21	29.18	18.98	53.01	55- 60	17.34	96.79	28,28
65	61.30	43.63	15.79	36.04	45.48	30.76	18.60	51.99	60- 65	18.56	115.3	33.3,33.3
70	60.48	41.42	15.75	37.41	47.38	31.98	17.96	50.01	65- 70	19.45	134.8	39,39
75	59.25	39.32	15.68	38.32	48.79	32.77	16.49	47.81	70- 75	19.96	154.8	44.7,44.7
80	57.64	37.33	14.62	38.79	49.36	33.12	14.42	45.30	75- 80	20.04	174.8	50.5,50.5
85	55.76	35.40	9.553	37.90	48.41	32.27	9.928	42.73	80- 85	19.55	194.3	56.2,56.2
90	53.40	33.55	3.025	35.53	46.76	30.45	2.349	40.35	85- 90	18.45	212.8	61.5,61.5
95	51.10	31.90	5.524	33.33	44.89	28.65	5.151	38.19	90- 95	17.34	230.1	66.5,66.5
100	48.61	30.34	5.460	31.34	42.88	26.99	5.342	36.00	95- 100	16.29	246.4	71.2,71.2
105	46.20	28.69	5.677	29.48	40.74	25.48	5.179	33.78	100-105	15.08	261.5	75.6,75.6
110	43.42	26.94	5.831	27.71	38.50	23.90	5.526	31.53	105-110	13.79	275.3	79.6,79.6
115	40.56	25.02	6.034	25.96	36.20	22.41	6.155	29.26	110-115	12.50	287.8	83.2,83.2
120	37.53	23.05	6.343	24.22	33.81	21.04	6.667	27.00	115-120	11.22	299.0	86.4,86.4
125	34.51	20.98	6.636	22.45	31.35	19.60	6.948	24.75	120-125	9.932	308.9	89.3,89.3
130	31.31	18.80	6.781	20.70	28.75	17.99	7.044	22.51	125-130	8.650	317.6	91.8,91.8
135	27.80	16.47	6.790	18.88	26.05	16.30	6.972	20.27	130-135	7.366	325.0	93.9,93.9
140	24.55	14.19	6.810	16.98	23.28	14.59	6.813	17.80	135-140	6.094	331.1	95.7,95.7
145	21.15	11.39	6.378	15.01	20.44	13.06	6.592	15.02	140-145	4.859	335.9	97.1,97.1
150	17.77	8.211	6.042	13.15	17.57	11.60	6.306	12.32	145-150	3.643	339.6	98.1,98.1
155	14.40	6.552	5.635	11.33	14.61	10.03	5.994	9.189	150-155	2.650	342.2	98.9,98.9
160	11.41	5.604	4.828	9.517	11.92	7.679	5.686	6.655	155-160	1.815	344.0	99.4,99.4
165	8.145	3.994	3.370	7.265	8.404	6.312	5.374	5.570	160-165	1.131	345.2	99.7,99.7
170	1.492	1.912	2.169	4.504	2.484	5.715	5.052	5.034	165-170	0.5686	345.7	99.9,99.9
175	0.9733	1.428	1.603	3.544	1.041	5.026	5.291	4.755	170-175	0.2540	346.0	100,100
180	1.000	3.572	5.011	4.860	0.9642	3.565	5.007	4.864	175-180	0.0837	346.1	100,100
DEG	LUMINOUS INTENSITY:cd MAX (Ii - Iavg)/Iavg (0-135) = 118.5 %									UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	326441	55921
80	169359	42947
75	116804	30911
70	90228	23491
65	74002	19067
60	63030	16618
55	54639	15067
50	48586	13936
45	42086	13035

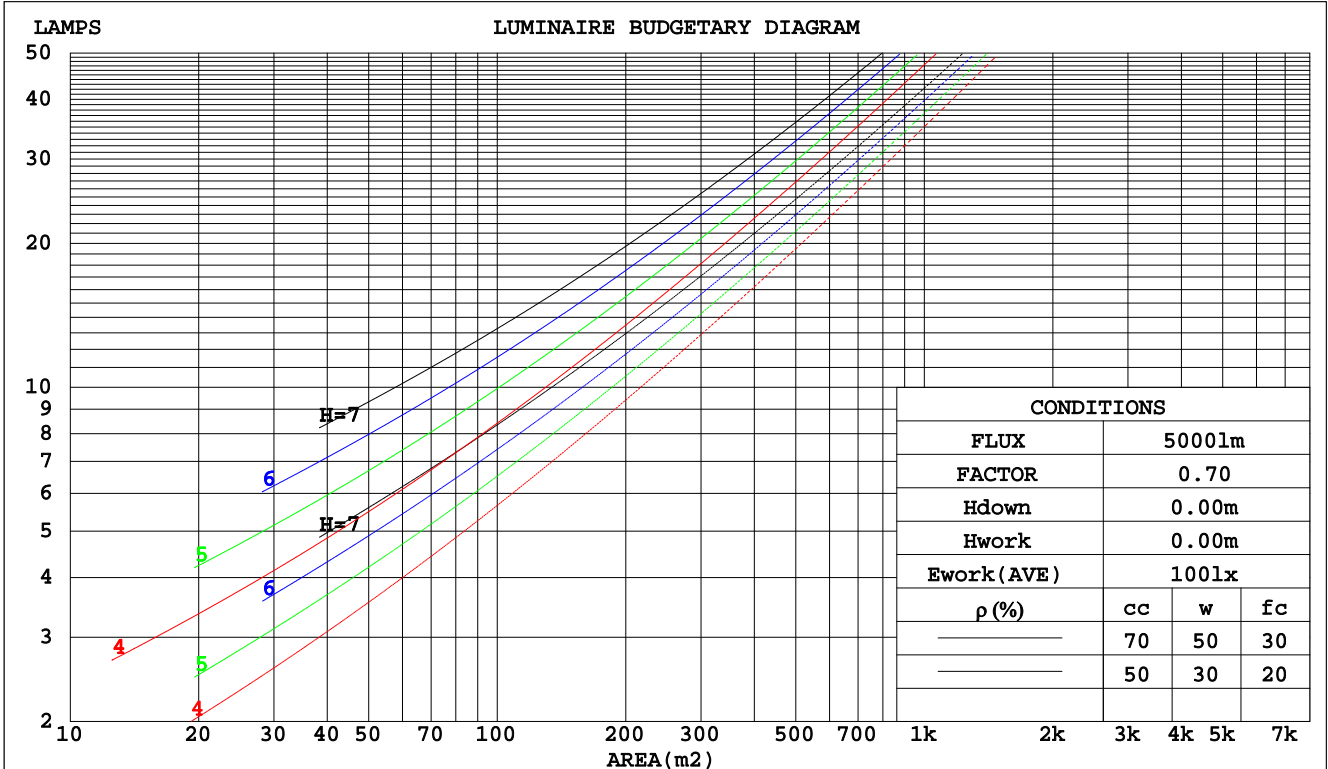
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:yechihong
Test Date:2019-11-21

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
Humidity:70%
Test Distance:8.425m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.9V I:0.1345A P:16.06W PF:0.9883 Lamp Flux:346.057x1 lm		
NAME: LOUS 0512L30D1BK	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:201901121A0001
MFR.: AFX	SUR.:0.05	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.10	1.10	1.10	1.03	1.03	1.03	.90	.90	.90	.78	.78	.78	.67	.67	.67	.61
1.0	.88	.82	.76	.82	.76	.71	.70	.66	.62	.60	.56	.53	.50	.47	.45	.40
2.0	.73	.65	.57	.68	.60	.54	.58	.52	.47	.49	.44	.40	.41	.37	.33	.29
3.0	.63	.53	.45	.58	.49	.42	.49	.42	.37	.41	.36	.31	.34	.30	.26	.22
4.0	.54	.44	.37	.50	.41	.34	.43	.35	.30	.36	.30	.25	.29	.25	.21	.17
5.0	.47	.38	.30	.44	.35	.28	.37	.30	.24	.31	.25	.21	.26	.21	.17	.14
6.0	.42	.32	.25	.39	.30	.24	.33	.26	.21	.28	.22	.17	.23	.18	.14	.11
7.0	.38	.28	.22	.35	.26	.20	.30	.23	.18	.25	.19	.15	.21	.16	.12	.09
8.0	.34	.25	.19	.31	.23	.18	.27	.20	.15	.23	.17	.13	.19	.14	.11	.08
9.0	.31	.22	.16	.29	.21	.15	.25	.18	.13	.21	.15	.11	.17	.13	.09	.07
10.0	.28	.20	.14	.26	.19	.14	.22	.16	.12	.19	.14	.10	.16	.11	.08	.06



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: yechihong
 Test Date: 2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity: 70%
 Test Distance: 8.425m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.9V I:0.1345A P:16.06W PF:0.9883 Lamp Flux:346.057x1 lm		
NAME: LOUS 0512L30D1BK	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:201901121A0001
MFR.: AFX	SUR.:0.05	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.441	.251	.079	.422	.241	.076	.386	.222	.071	.354	.204	.065	.323	.187	.060	
2.0	.366	.201	.062	.349	.192	.059	.316	.176	.055	.286	.161	.050	.258	.146	.046	
3.0	.318	.169	.051	.302	.162	.049	.272	.147	.045	.245	.134	.041	.219	.121	.038	
4.0	.281	.146	.043	.267	.140	.041	.240	.127	.038	.214	.115	.035	.191	.104	.032	
5.0	.253	.129	.037	.240	.123	.036	.215	.112	.033	.191	.101	.030	.170	.091	.027	
6.0	.230	.115	.033	.217	.110	.032	.194	.100	.029	.173	.090	.026	.153	.081	.024	
7.0	.210	.104	.029	.199	.099	.028	.178	.090	.026	.158	.081	.024	.139	.072	.021	
8.0	.194	.095	.027	.184	.090	.026	.164	.082	.023	.145	.074	.021	.128	.066	.019	
9.0	.180	.087	.024	.170	.083	.023	.152	.075	.021	.135	.068	.019	.119	.060	.017	
10.0	.167	.080	.022	.159	.077	.021	.142	.069	.020	.126	.062	.018	.110	.056	.016	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.484	.484	.484	.414	.414	.414	.282	.282	.282	.162	.162	.162	.052	.052	.052	
1.0	.485	.451	.420	.415	.387	.361	.284	.266	.250	.163	.154	.145	.052	.050	.047	
2.0	.480	.429	.387	.411	.370	.334	.282	.256	.233	.162	.149	.137	.052	.048	.045	
3.0	.473	.414	.367	.406	.357	.318	.278	.248	.223	.161	.145	.132	.052	.047	.043	
4.0	.466	.402	.354	.399	.348	.308	.275	.242	.217	.159	.142	.128	.051	.046	.042	
5.0	.458	.393	.346	.393	.340	.301	.271	.238	.212	.157	.140	.126	.051	.046	.042	
6.0	.450	.386	.340	.387	.334	.296	.267	.234	.209	.155	.138	.124	.050	.045	.041	
7.0	.443	.380	.335	.381	.329	.292	.263	.231	.207	.153	.136	.123	.049	.045	.041	
8.0	.436	.374	.332	.376	.325	.289	.260	.228	.205	.151	.134	.122	.049	.044	.040	
9.0	.430	.370	.329	.370	.321	.287	.257	.226	.204	.149	.133	.122	.048	.044	.040	
10.0	.424	.366	.327	.366	.318	.285	.254	.223	.203	.148	.132	.121	.048	.043	.040	

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:120.9V I:0.1345A P:16.06W PF:0.9883 Lamp Flux:346.057x1 lm										
NAME: LOUS 0512L30D1BK					TYPE:			WEIGHT:		
DIM.:					SPEC.:			SERIAL No.:201901121A0001		
MFR.: AFX					SUR.:0.05			PROTECTION ANGLE:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	25.8	27.1	26.6	27.9	28.8	20.9	22.1	21.6	22.9	23.9
3H	29.1	30.2	29.9	31.0	32.1	23.1	24.2	23.9	25.0	26.1
4H	30.9	32.0	31.7	32.8	33.8	24.3	25.4	25.1	26.2	27.2
6H	32.9	33.9	33.7	34.8	35.8	25.6	26.6	26.4	27.4	28.5
8H	34.0	35.0	34.8	35.8	36.9	26.2	27.1	27.0	28.0	29.0
12H	35.3	36.2	36.1	37.1	38.1	26.7	27.6	27.5	28.5	29.5
4H 2H	26.3	27.4	27.1	28.2	29.2	23.3	24.3	24.1	25.2	26.2
3H	29.8	30.7	30.6	31.6	32.7	25.6	26.6	26.4	27.4	28.5
4H	31.8	32.7	32.6	33.5	34.6	26.8	27.7	27.7	28.6	29.7
6H	34.0	34.8	34.9	35.7	36.8	28.1	28.8	28.9	29.7	30.8
8H	35.3	36.0	36.1	36.9	38.0	28.6	29.4	29.5	30.3	31.4
12H	36.7	37.3	37.5	38.2	39.4	29.1	29.8	30.0	30.7	31.9
8H 4H	32.1	32.8	33.0	33.7	34.9	28.4	29.2	29.3	30.1	31.2
6H	34.6	35.2	35.5	36.2	37.3	30.0	30.6	30.9	31.5	32.7
8H	36.1	36.6	37.0	37.6	38.7	30.7	31.3	31.6	32.2	33.4
12H	37.7	38.2	38.7	39.2	40.4	31.4	31.9	32.3	32.9	34.1
12H 4H	32.1	32.8	33.0	33.7	34.8	28.9	29.6	29.8	30.5	31.7
6H	34.7	35.3	35.6	36.2	37.4	30.7	31.3	31.6	32.2	33.4
8H	36.3	36.8	37.2	37.7	38.9	31.7	32.2	32.6	33.1	34.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 346.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -3.7)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:yechihong
Test Date:2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
Humidity:70%
Test Distance:8.425m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.9V I:0.1345A P:16.06W PF:0.9883 Lamp Flux:346.057x1 lm		
NAME: LOUS 0512L30D1BK	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:201901121A0001
MFR.: AFX	SUR.:0.05	PROTECTION ANGLE:

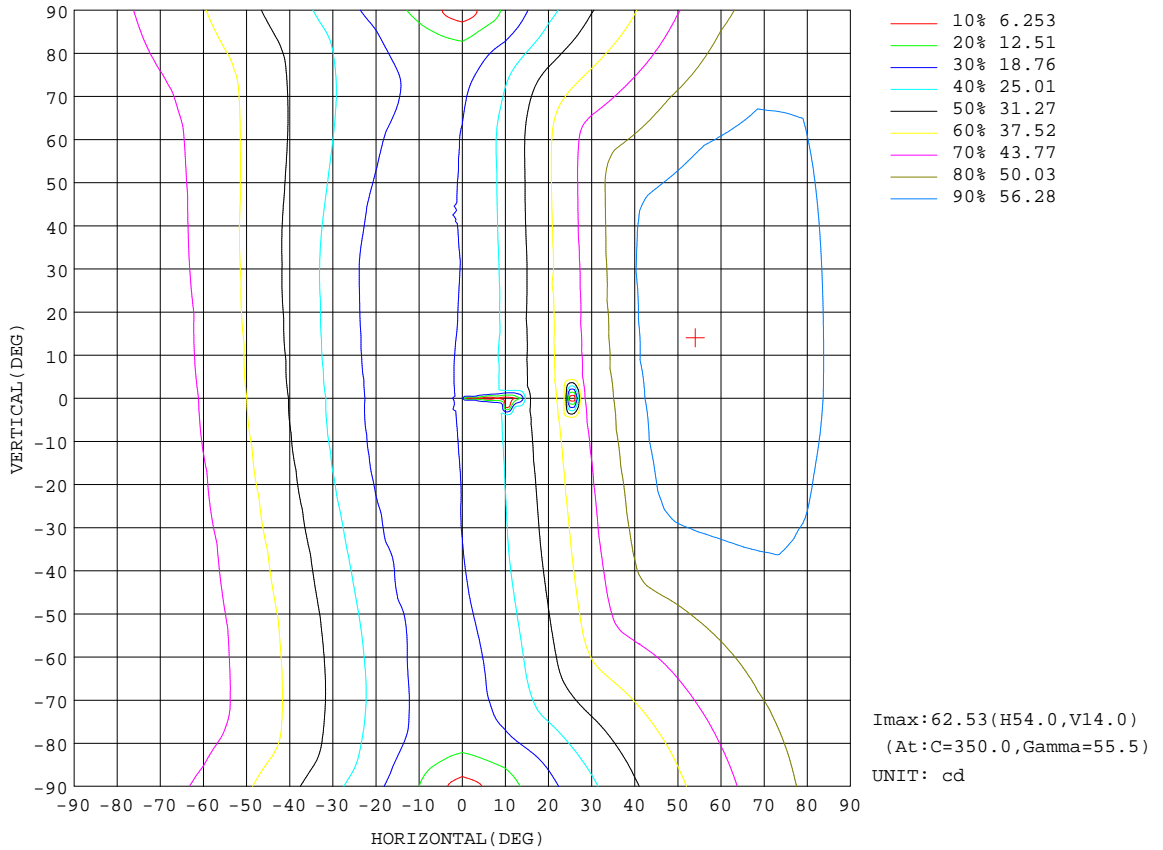
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	37	24	16	35	23	16	32	21	15	8
0.80	45	31	22	43	30	22	39	28	20	11
1.00	53	38	29	50	36	28	45	36	26	15
1.25	60	45	35	56	43	34	50	39	31	18
1.50	65	51	41	61	48	39	54	43	35	21
2.00	73	60	50	68	56	47	60	50	43	27
2.50	78	66	56	73	62	53	64	55	48	30
3.00	82	71	62	77	67	59	67	59	52	33
4.00	88	78	70	82	73	66	71	65	59	38
5.00	91	83	75	85	78	71	74	68	63	41
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.9V I:0.1345A P:16.06W PF:0.9883 Lamp Flux:346.057x1 lm		
NAME: LOUS 0512L30D1BK	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:201901121A0001
MFR.: AFX	SUR.:0.05	PROTECTION ANGLE:

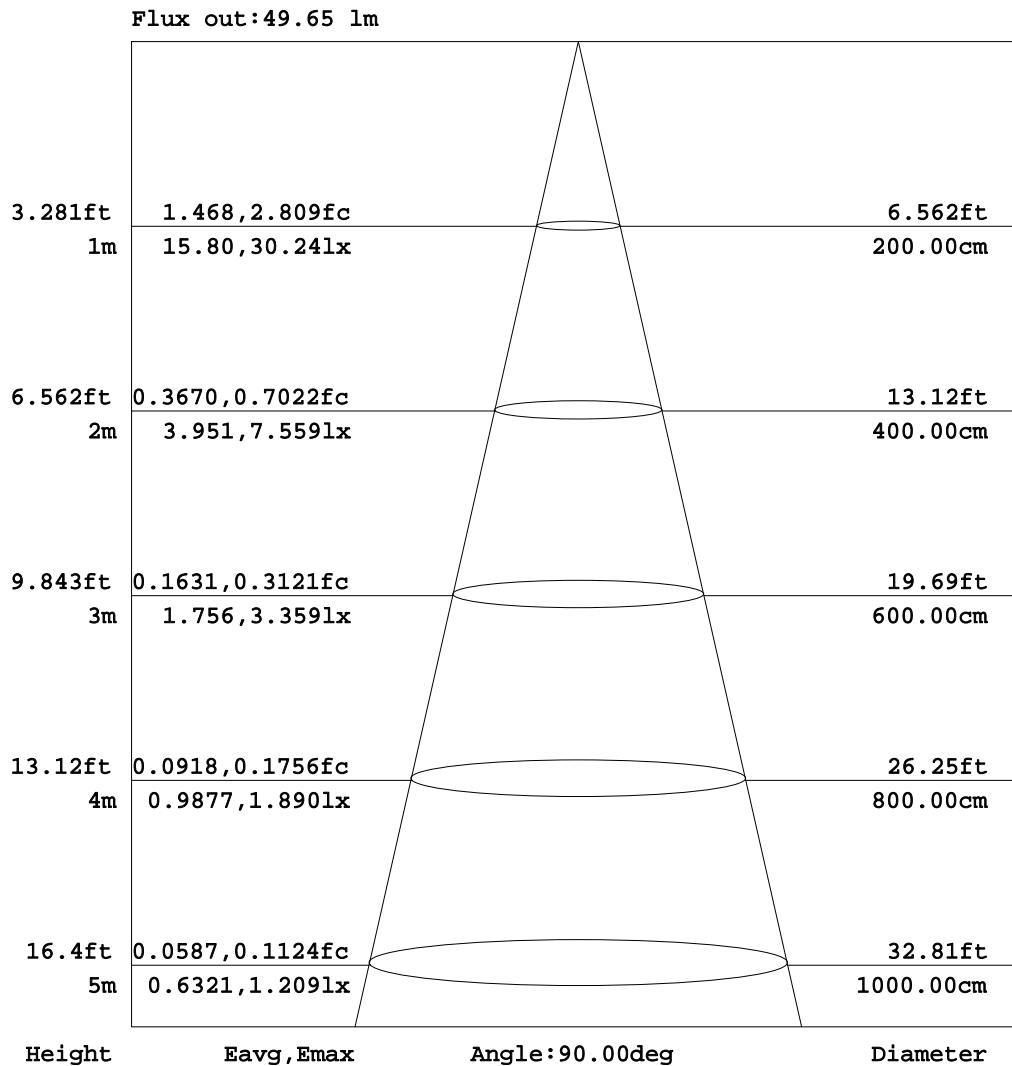


C Range: 0 - 360DEG
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γ Range: 0 - 180DEG
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 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
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 Remarks:

AAI Figure

Test:U:120.9V I:0.1345A P:16.06W PF:0.9883 Lamp Flux:346.057x1 lm		
NAME: LOUS 0512L30D1BK	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:201901121A0001
MFR.: AFX	SUR.:0.05	PROTECTION ANGLE:



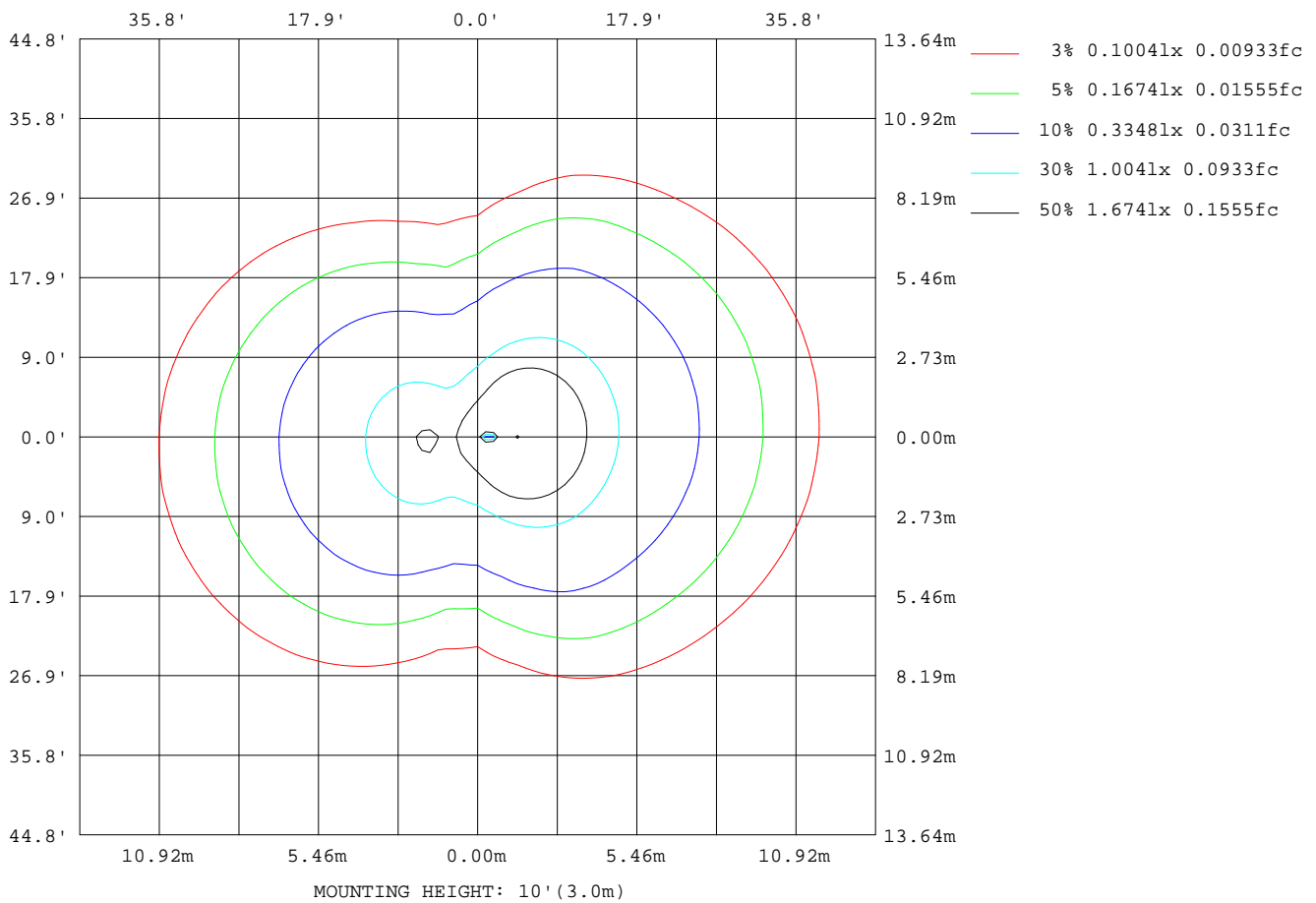
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

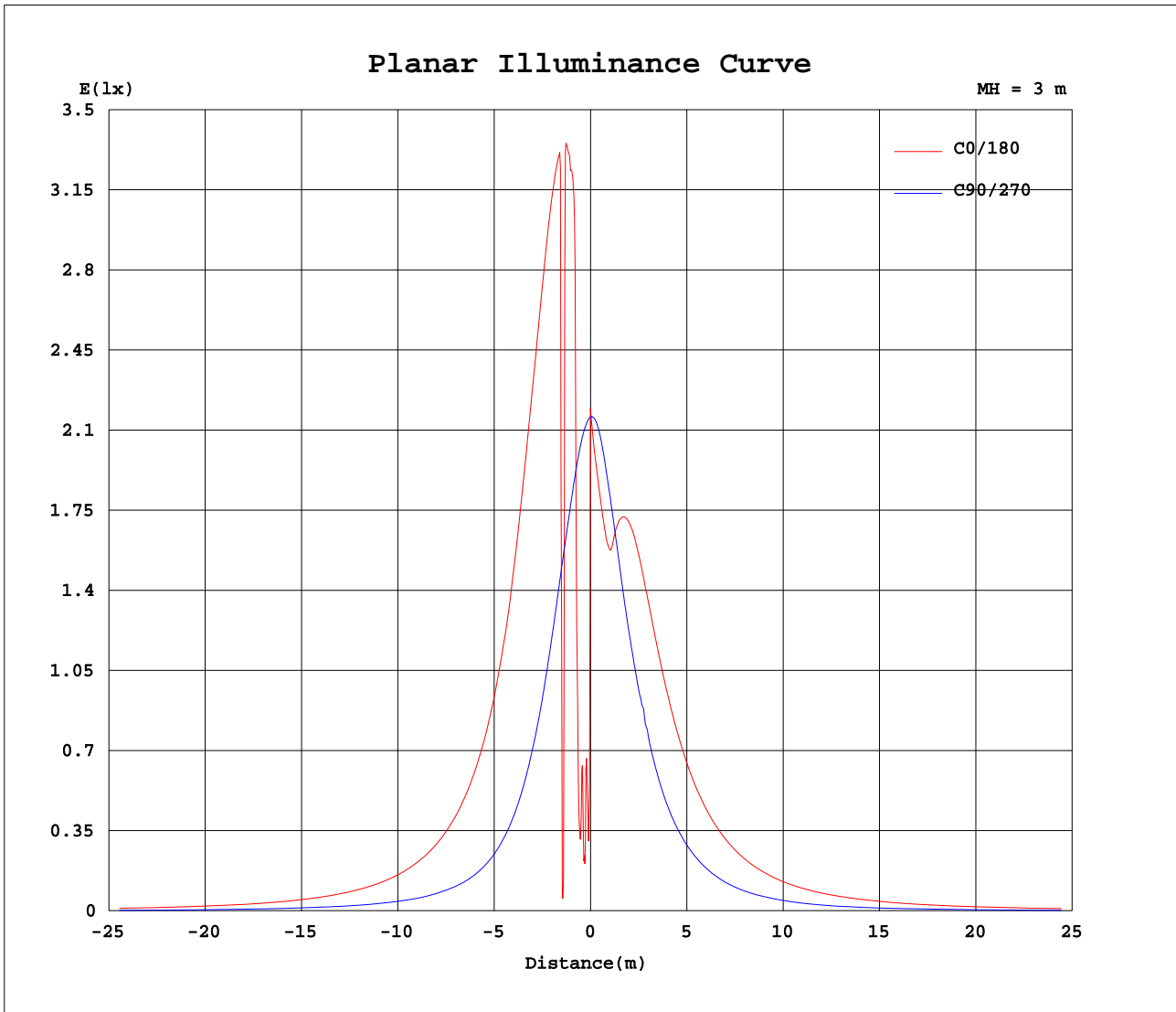
Test:U:120.9V I:0.1345A P:16.06W PF:0.9883 Lamp Flux:346.057x1 lm		
NAME: LOUS 0512L30D1BK	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:201901121A0001
MFR.: AFX	SUR.:0.05	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: yechihong
 Test Date: 2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity: 70%
 Test Distance: 8.425m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.9V I:0.1345A P:16.06W PF:0.9883 Lamp Flux:346.057x1 lm		
NAME: LOUS 0512L30D1BK	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:201901121A0001
MFR.: AFX	SUR.:0.05	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	19.7	19.4	19.4	19.4	19.5	19.4	19.5	19.4	19.4	19.4	19.4	19.4	19.4	19.7	19.5	19.5	19.5	19.6	19.7
5	2.83	22.1	21.8	21.5	21.2	20.8	20.5	20.0	19.6	19.3	18.9	18.6	18.4	18.4	18.0	17.9	17.8	17.8	17.9
10	2.94	4.37	25.3	24.6	23.8	22.8	21.8	20.7	19.9	19.1	18.5	18.0	17.6	17.6	17.0	16.9	16.7	16.7	16.9
15	28.2	30.4	29.5	28.3	26.9	25.1	23.4	21.6	20.1	19.0	18.1	17.5	17.0	17.0	16.4	16.3	16.2	16.1	16.3
20	35.8	35.1	33.8	32.1	30.1	27.6	25.0	22.5	20.4	18.9	17.8	17.1	16.6	16.6	16.3	16.5	16.7	16.9	17.2
25	1.66	39.7	38.1	35.9	33.3	30.1	26.9	23.5	20.8	18.9	17.7	16.9	16.6	16.8	17.3	18.6	19.6	20.1	20.4
30	45.2	44.3	42.3	39.6	36.3	32.5	28.6	24.6	21.1	18.8	17.7	17.0	16.9	18.2	20.2	21.9	23.1	23.6	23.8
35	50.0	48.9	46.5	43.2	39.3	34.8	30.2	25.5	21.3	18.7	17.6	17.2	17.8	20.8	23.2	25.2	26.6	27.3	27.5
40	54.3	53.1	50.4	46.6	42.1	36.9	31.6	26.3	21.4	18.4	17.4	17.4	19.8	23.2	26.2	28.6	30.2	31.0	31.1
45	58.3	56.9	53.8	49.7	44.7	38.9	32.8	26.8	21.3	18.1	17.2	17.9	21.7	25.6	29.2	31.8	33.6	34.4	34.4
50	61.2	59.7	56.6	52.3	46.9	40.6	33.8	27.2	21.2	17.6	17.0	19.1	23.5	28.0	31.9	34.8	36.8	37.7	37.5
55	61.4	60.3	57.2	53.4	48.6	41.9	34.7	27.4	21.0	16.9	16.8	20.1	25.2	30.2	34.4	37.6	39.7	40.7	40.5
60	61.8	59.8	56.4	52.3	47.9	42.7	35.2	27.5	20.8	16.3	16.6	21.1	26.8	32.1	36.6	40.0	42.4	43.4	43.2
65	61.3	59.1	55.3	50.8	45.9	41.3	35.3	27.4	20.8	15.8	16.7	22.0	28.0	33.6	38.5	42.2	44.6	45.8	45.5
70	60.5	58.2	54.0	49.2	43.9	39.0	33.7	26.9	20.4	15.7	17.0	22.7	28.9	34.9	39.9	43.8	46.5	47.7	47.4
75	59.3	56.8	52.5	47.5	42.0	36.7	31.2	25.2	19.4	15.7	17.2	22.8	29.3	35.6	41.0	45.1	47.9	49.2	48.8
80	57.6	55.3	50.8	45.7	40.1	34.6	28.7	22.3	17.2	14.6	16.6	22.6	29.3	36.0	41.6	45.8	48.5	49.8	49.4
85	55.8	53.2	48.9	43.7	38.2	32.6	26.3	19.5	13.2	9.55	14.3	21.9	28.7	35.3	40.6	44.8	47.5	48.8	48.4
90	53.4	51.1	46.9	41.9	36.4	30.7	24.0	17.1	10.1	3.03	12.5	20.2	26.7	32.8	38.3	42.8	45.8	47.2	46.8
95	51.1	48.9	44.9	40.1	34.8	29.0	22.3	15.5	9.18	5.52	11.4	18.5	24.6	30.5	36.1	40.8	43.9	45.3	44.9
100	48.6	46.6	42.8	38.4	33.3	27.4	20.7	14.0	8.08	5.46	10.3	16.9	22.8	28.6	34.1	38.7	41.8	43.3	42.9
105	46.2	44.1	40.5	36.4	31.5	25.9	19.3	12.4	7.04	5.68	9.08	14.9	20.9	26.8	32.2	36.6	39.6	41.1	40.7
110	43.4	41.5	38.1	34.2	29.7	24.2	17.8	10.8	6.34	5.83	7.90	13.1	19.2	25.1	30.3	34.5	37.4	38.8	38.5
115	40.6	38.8	35.7	32.1	27.6	22.4	16.3	9.55	6.38	6.03	7.55	11.7	17.9	23.5	28.4	32.4	35.1	36.4	36.2
120	37.5	35.9	33.1	29.7	25.5	20.6	14.7	8.64	6.54	6.34	7.47	10.6	16.7	22.0	26.5	30.2	32.8	34.0	33.8
125	34.5	32.9	30.4	27.3	23.3	18.6	13.4	8.62	6.70	6.64	7.55	10.3	15.5	20.4	24.5	28.0	30.3	31.5	31.3
130	31.3	30.0	27.6	24.7	20.9	16.7	11.9	8.59	6.82	6.78	7.56	10.1	14.3	18.8	22.6	25.7	27.8	28.9	28.7
135	27.8	26.8	24.6	21.9	18.4	14.5	11.1	8.37	6.82	6.79	7.50	9.99	13.2	17.2	20.6	23.3	25.2	26.2	26.1
140	24.6	23.5	21.6	19.0	15.6	12.8	9.33	7.24	6.69	6.81	7.16	9.29	12.2	15.5	18.5	20.9	22.5	23.4	23.3
145	21.2	20.2	18.7	15.7	13.1	9.63	7.49	6.79	6.45	6.38	6.75	7.83	11.3	13.8	16.2	18.4	19.8	20.5	20.4
150	17.8	8.93	15.1	12.8	9.08	7.34	6.74	6.36	6.10	6.04	6.25	7.12	9.87	12.2	14.1	15.9	17.1	17.7	17.6
155	14.4	7.38	11.6	8.16	6.72	6.39	6.04	5.79	5.64	5.64	5.73	6.28	8.06	10.6	12.0	13.5	14.5	14.9	14.6
160	11.4	6.02	6.72	5.85	5.70	5.51	5.29	5.10	4.89	4.83	4.95	5.38	6.71	8.99	10.0	11.2	12.1	12.3	11.9
165	8.15	4.26	4.37	4.37	4.10	3.89	3.69	3.55	3.40	3.37	3.41	3.76	4.81	6.86	7.67	8.73	9.33	9.45	8.40
170	1.49	1.45	1.67	1.83	1.88	1.94	1.91	2.18	2.13	2.17	2.17	2.23	2.67	4.31	4.70	5.27	5.51	5.62	2.48
175	0.97	0.95	0.99	1.17	1.22	1.63	1.63	1.61	1.61	1.60	1.62	1.73	2.35	3.21	3.88	4.04	4.58	4.78	1.04
180	1.00	0.94	1.52	3.35	3.37	3.78	4.72	5.02	5.02	5.01	5.01	5.00	5.01	5.02	4.70	4.66	4.67	4.26	0.96

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.9V I:0.1345A P:16.06W PF:0.9883 Lamp Flux:346.057x1 lm		
NAME: LOUS 0512L30D1BK	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:201901121A0001
MFR.: AFX	SUR.:0.05	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	19.4	19.4	19.4	19.5	19.4	19.5	19.4	19.4	19.4	19.4	19.4	19.4	19.7	19.5	19.5	19.5	19.6		
5	17.7	17.8	17.9	18.1	18.3	18.6	18.8	19.2	19.5	19.9	20.3	20.7	21.3	21.5	21.9	22.1	22.3		
10	16.7	16.7	16.9	17.1	17.4	17.8	18.2	18.8	19.5	20.3	21.2	22.2	23.6	24.3	25.2	25.7	26.2		
15	16.3	16.1	16.1	16.3	16.5	16.9	17.5	18.3	19.3	20.5	22.2	24.0	26.2	27.7	29.3	30.3	31.0		
20	17.0	16.3	16.0	15.7	15.8	16.2	16.8	17.8	19.2	20.9	23.3	26.0	29.2	31.4	33.5	34.9	35.8		
25	19.9	18.8	17.5	16.0	15.4	15.5	16.2	17.4	19.1	21.4	24.6	28.4	32.2	35.1	37.8	39.5	40.6		
30	23.1	21.8	20.1	18.0	15.8	15.0	15.6	17.0	19.0	21.9	26.1	30.7	35.2	38.8	42.0	44.1	45.4		
35	26.6	25.0	22.8	20.2	17.4	15.0	15.2	16.7	19.1	22.6	27.7	32.9	38.2	42.4	46.2	48.7	50.2		
40	30.1	28.3	25.7	22.4	19.1	16.2	15.0	16.6	19.2	23.3	29.2	35.2	41.0	46.1	50.3	53.0	54.6		
45	33.5	31.4	28.5	24.9	21.1	17.7	15.2	16.4	19.4	24.0	30.7	37.3	43.9	49.5	54.0	57.0	58.6		
50	36.6	34.3	31.1	27.2	23.2	19.1	16.0	16.1	19.2	24.6	31.9	39.4	46.6	52.6	57.3	60.2	61.6		
55	39.4	36.9	33.5	29.5	25.2	20.7	17.0	15.9	19.1	25.2	33.0	41.2	48.8	55.1	59.2	61.6	62.5		
60	42.0	39.4	35.7	31.5	26.9	22.1	18.0	15.8	19.0	25.6	34.0	42.7	50.4	55.6	59.2	61.4	62.4		
65	44.2	41.4	37.7	33.2	28.3	23.3	19.2	16.4	18.6	25.6	34.5	43.5	49.6	54.3	58.3	60.9	62.0		
70	46.0	43.1	39.3	34.6	29.4	24.3	20.0	17.1	18.0	25.0	34.1	42.0	47.3	52.7	57.2	60.1	61.2		
75	47.3	44.3	40.4	35.5	30.1	24.8	20.3	17.2	16.5	23.8	32.5	39.1	44.9	50.8	55.6	58.8	60.0		
80	47.8	44.8	40.8	35.9	30.3	24.9	20.0	15.8	14.4	21.1	29.5	36.1	42.2	48.4	53.5	57.0	58.4		
85	46.7	43.7	39.7	34.9	29.7	24.3	18.9	13.8	9.93	16.9	26.2	33.4	39.5	45.9	51.3	54.9	56.4		
90	44.9	41.9	37.8	33.0	27.9	22.5	16.6	10.8	2.35	13.8	23.3	30.9	37.2	43.5	48.9	52.6	54.3		
95	43.1	40.1	36.0	31.2	26.1	20.8	14.6	9.20	5.15	12.3	20.9	28.7	35.2	41.2	46.4	50.2	52.0		
100	41.0	38.1	34.2	29.4	24.5	19.3	13.2	7.81	5.34	10.7	18.9	26.6	33.1	38.9	44.0	47.7	49.4		
105	39.0	36.2	32.4	27.9	23.1	17.7	11.6	6.56	5.18	8.86	16.8	24.6	30.9	36.6	41.4	45.0	46.7		
110	36.9	34.3	30.7	26.3	21.5	16.0	10.3	6.05	5.53	7.95	15.0	22.5	28.8	34.3	38.9	42.3	43.9		
115	34.7	32.3	28.9	24.8	20.0	14.6	9.12	6.37	6.16	8.12	13.6	20.6	26.6	32.0	36.4	39.6	41.0		
120	32.5	30.2	27.1	23.3	18.7	13.4	8.07	6.68	6.67	8.28	12.5	18.7	24.4	29.6	33.8	36.7	38.0		
125	30.2	28.1	25.3	21.8	17.4	12.3	7.82	6.79	6.95	8.61	11.7	17.1	22.4	27.1	31.0	33.8	34.8		
130	27.7	25.9	23.4	20.1	15.9	11.2	7.86	6.84	7.04	8.44	11.0	15.6	20.4	24.7	28.1	30.6	31.6		
135	25.2	23.6	21.2	18.2	14.4	10.6	7.95	6.84	6.97	7.93	10.4	13.8	18.4	22.1	25.2	27.3	28.2		
140	22.5	21.1	18.9	16.2	13.0	10.1	7.68	6.76	6.81	7.50	9.45	12.1	16.0	19.6	22.3	24.0	24.7		
145	19.8	18.5	16.6	14.3	11.8	9.36	7.25	6.60	6.59	6.97	8.21	10.4	13.4	16.7	19.2	20.7	21.3		
150	17.0	16.0	14.4	12.7	10.5	8.47	6.70	6.38	6.31	6.49	6.95	8.84	10.8	13.8	15.7	17.4	17.9		
155	14.3	13.6	12.5	11.0	9.04	7.26	6.30	6.08	5.99	6.06	6.28	6.72	7.84	10.5	12.5	13.8	14.5		
160	11.7	11.5	10.1	8.44	6.92	6.54	5.92	5.77	5.69	5.72	5.84	6.02	6.21	7.10	8.87	10.6	11.5		
165	7.61	6.77	6.65	6.43	6.19	6.07	5.54	5.45	5.37	5.38	5.42	5.49	5.54	5.60	5.66	5.86	7.21		
170	4.70	4.94	5.14	5.77	5.65	5.63	5.16	5.12	5.05	5.04	5.03	5.04	5.04	5.03	4.98	4.92	4.79		
175	2.34	3.81	4.14	4.61	5.44	5.46	5.40	5.32	5.29	5.27	5.07	4.97	4.91	4.59	4.56	4.50	4.44		
180	1.00	1.52	3.35	3.36	3.77	4.72	5.03	5.02	5.01	5.01	5.01	5.02	5.02	4.71	4.66	4.67	4.26		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:yechihong
 Test Date:2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity:70%
 Test Distance:8.425m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

G/C	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0
0.0	19.75	19.42	19.43	19.42	19.45	19.43	19.45	19.42	19.44	19.41
2.5	3.784	20.56	20.50	20.37	20.28	20.09	19.94	19.72	19.54	19.35
5.0	2.826	22.10	21.84	21.53	21.23	20.83	20.46	20.03	19.65	19.26
7.5	4.781	23.81	23.51	23.01	22.47	21.74	21.05	20.36	19.76	19.19
10.0	2.941	4.369	25.31	24.58	23.81	22.80	21.78	20.72	19.90	19.12
12.5	8.514	27.97	27.43	26.41	25.23	23.91	22.57	21.14	20.01	19.06
15.0	28.24	30.41	29.55	28.31	26.88	25.06	23.36	21.59	20.11	18.97
17.5	33.41	32.22	31.69	30.23	28.52	26.35	24.12	22.07	20.23	18.90
20.0	35.80	35.12	33.82	32.12	30.13	27.63	25.03	22.54	20.38	18.87
22.5	38.18	37.45	35.95	34.02	31.71	28.89	25.96	23.02	20.55	18.84
25.0	1.659	39.72	38.07	35.90	33.26	30.12	26.86	23.52	20.76	18.86
27.5	41.87	42.03	40.18	37.74	34.82	31.34	27.77	24.05	20.96	18.84
30.0	45.22	44.32	42.29	39.57	36.33	32.53	28.63	24.59	21.12	18.81
32.5	47.61	46.60	44.39	41.36	37.80	33.70	29.44	25.09	21.25	18.75
35.0	49.96	48.87	46.48	43.15	39.25	34.82	30.22	25.53	21.34	18.66
37.5	52.20	51.05	48.48	44.92	40.70	35.88	30.93	25.92	21.38	18.55
40.0	54.34	53.08	50.37	46.63	42.10	36.92	31.63	26.26	21.40	18.40
42.5	56.40	54.99	52.15	48.21	43.46	37.93	32.23	26.55	21.37	18.24
45.0	58.33	56.90	53.82	49.71	44.73	38.89	32.79	26.81	21.32	18.07
47.5	60.01	58.53	55.37	51.08	45.87	39.79	33.33	27.00	21.29	17.83
50.0	61.21	59.69	56.58	52.33	46.92	40.60	33.81	27.15	21.19	17.56
52.5	61.69	60.21	57.20	53.19	47.83	41.33	34.29	27.29	21.08	17.25
55.0	61.43	60.25	57.20	53.41	48.57	41.95	34.70	27.39	20.99	16.94
57.5	61.82	60.08	56.81	53.04	48.51	42.44	35.01	27.44	20.89	16.61
60.0	61.77	59.81	56.36	52.32	47.93	42.72	35.25	27.50	20.83	16.29
62.5	61.58	59.50	55.84	51.59	46.93	42.33	35.35	27.49	20.79	16.01
65.0	61.30	59.11	55.29	50.80	45.92	41.33	35.31	27.43	20.76	15.79
67.5	60.92	58.69	54.66	50.01	44.89	40.13	34.79	27.25	20.62	15.83
70.0	60.48	58.15	54.04	49.19	43.89	38.95	33.69	26.90	20.35	15.75
72.5	59.91	57.50	53.31	48.35	42.92	37.77	32.47	26.30	19.91	15.66
75.0	59.25	56.79	52.53	47.49	41.98	36.66	31.22	25.19	19.35	15.68
77.5	58.50	56.03	51.69	46.58	41.03	35.59	29.93	23.69	18.49	15.52
80.0	57.64	55.29	50.81	45.66	40.07	34.58	28.67	22.27	17.17	14.62
82.5	56.74	54.07	49.89	44.69	39.13	33.58	27.49	20.83	15.23	12.07
85.0	55.76	53.18	48.92	43.74	38.21	32.59	26.28	19.47	13.19	9.553
87.5	54.69	52.13	47.92	42.79	37.32	31.61	25.09	18.25	11.35	6.629
90.0	53.40	51.07	46.90	41.87	36.45	30.66	24.02	17.15	10.10	3.025
92.5	52.17	49.99	45.90	40.97	35.62	29.79	23.08	16.23	9.557	4.604
95.0	51.10	48.88	44.90	40.13	34.84	28.96	22.26	15.45	9.182	5.524
97.5	49.84	47.75	43.87	39.27	34.06	28.19	21.46	14.76	8.712	5.387
100.0	48.61	46.58	42.82	38.38	33.27	27.41	20.71	14.05	8.079	5.460
102.5	47.44	45.39	41.70	37.39	32.38	26.64	20.09	13.18	7.532	5.568
105.0	46.20	44.11	40.54	36.36	31.48	25.89	19.33	12.36	7.042	5.677
107.5	44.81	42.81	39.36	35.32	30.60	25.08	18.55	11.58	6.574	5.794
110.0	43.42	41.48	38.13	34.25	29.69	24.20	17.80	10.83	6.338	5.831
112.5	42.03	40.14	36.89	33.18	28.68	23.30	17.06	10.12	6.315	5.931
115.0	40.56	38.78	35.67	32.06	27.64	22.40	16.32	9.545	6.378	6.034
117.5	39.08	37.28	34.41	30.91	26.59	21.50	15.55	9.020	6.460	6.193
120.0	37.53	35.86	33.10	29.71	25.52	20.58	14.73	8.642	6.536	6.343
122.5	35.98	34.47	31.76	28.52	24.43	19.62	14.02	8.610	6.622	6.506
125.0	34.51	32.93	30.41	27.26	23.33	18.62	13.37	8.624	6.699	6.636
127.5	32.94	31.54	29.00	25.99	22.16	17.62	12.70	8.612	6.768	6.723
130.0	31.31	29.99	27.58	24.70	20.93	16.66	11.95	8.592	6.817	6.781
132.5	29.59	28.40	26.13	23.34	19.73	15.61	11.49	8.565	6.827	6.813
135.0	27.80	26.78	24.62	21.94	18.43	14.51	11.12	8.371	6.819	6.790
137.5	26.15	25.13	23.10	20.52	16.97	13.63	10.51	7.675	6.777	6.727
140.0	24.55	23.49	21.60	19.04	15.61	12.77	9.335	7.243	6.691	6.810
142.5	22.87	21.88	20.13	17.40	14.51	11.41	8.158	7.002	6.578	6.519
145.0	21.15	20.20	18.67	15.70	13.15	9.627	7.493	6.789	6.447	6.378
147.5	19.45	6.931	16.97	14.37	11.20	8.207	7.081	6.581	6.275	6.206
150.0	17.77	8.929	15.13	12.77	9.078	7.345	6.742	6.364	6.098	6.042
152.5	16.06	8.133	13.35	10.49	7.558	6.798	6.403	6.096	5.886	5.831
155.0	14.40	7.375	11.61	8.157	6.717	6.387	6.044	5.789	5.637	5.635
157.5	12.78	6.663	9.133	6.655	6.227	5.961	5.675	5.445	5.315	5.293
160.0	11.41	6.023	6.724	5.852	5.697	5.512	5.289	5.101	4.889	4.828
162.5	10.08	5.365	5.406	5.253	5.061	4.938	4.722	4.498	4.312	4.261
165.0	8.145	4.260	4.374	4.365	4.100	3.888	3.685	3.549	3.402	3.370
167.5	4.668	2.525	2.780	2.923	2.838	2.743	2.560	2.560	2.499	2.521
170.0	1.492	1.451	1.675	1.830	1.882	1.942	1.911	2.181	2.135	2.169
172.5	1.006	1.009	1.109	1.208	1.406	1.456	1.802	1.799	1.753	1.688
175.0	0.9733	0.9542	0.9869	1.168	1.222	1.634	1.625	1.612	1.607	1.603
177.5	0.9778	0.9371	1.145	1.236	2.091	2.397	2.307	2.790	3.229	3.098
180.0	1.000	0.9416	1.516	3.354	3.368	3.775	4.717	5.025	5.016	5.011

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: yechihong
 Test Date: 2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity: 70%
 Test Distance: 8.425m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

G/C	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0
0.0	19.43	19.45	19.44	19.72	19.47	19.53	19.53	19.59	19.75	19.42
2.5	19.18	19.03	18.88	19.02	18.67	18.64	18.56	18.59	18.65	18.48
5.0	18.94	18.63	18.36	18.43	18.01	17.90	17.80	17.82	17.91	17.73
7.5	18.71	18.28	17.92	17.93	17.46	17.32	17.20	17.18	17.33	17.14
10.0	18.49	17.97	17.56	17.56	17.02	16.86	16.72	16.68	16.86	16.74
12.5	18.28	17.70	17.24	17.24	16.67	16.51	16.38	16.33	16.52	16.46
15.0	18.09	17.45	16.98	17.02	16.44	16.29	16.18	16.13	16.32	16.30
17.5	17.92	17.30	16.76	16.73	16.31	16.22	16.23	16.27	16.50	16.39
20.0	17.79	17.14	16.61	16.63	16.30	16.49	16.67	16.92	17.18	16.95
22.5	17.70	17.01	16.55	16.65	16.62	17.18	18.00	18.44	18.73	18.35
25.0	17.67	16.94	16.55	16.83	17.31	18.64	19.65	20.13	20.41	19.90
27.5	17.67	16.94	16.64	17.19	18.69	20.23	21.36	21.88	22.10	21.47
30.0	17.67	16.99	16.88	18.17	20.16	21.86	23.09	23.63	23.85	23.09
32.5	17.64	17.06	17.24	19.48	21.66	23.50	24.84	25.46	25.64	24.82
35.0	17.60	17.15	17.82	20.76	23.16	25.17	26.64	27.33	27.48	26.60
37.5	17.51	17.26	18.79	21.97	24.66	26.87	28.46	29.18	29.32	28.40
40.0	17.41	17.42	19.80	23.19	26.18	28.58	30.23	31.00	31.05	30.13
42.5	17.32	17.61	20.76	24.35	27.70	30.23	31.94	32.77	32.72	31.82
45.0	17.22	17.91	21.69	25.59	29.17	31.83	33.62	34.44	34.37	33.46
47.5	17.14	18.47	22.60	26.83	30.57	33.37	35.24	36.10	35.98	35.04
50.0	17.04	19.07	23.49	28.01	31.92	34.83	36.78	37.68	37.55	36.56
52.5	16.94	19.62	24.39	29.13	33.17	36.23	38.28	39.22	39.06	38.01
55.0	16.84	20.11	25.25	30.19	34.39	37.58	39.72	40.70	40.53	39.43
57.5	16.77	20.60	26.06	31.15	35.49	38.86	41.07	42.11	41.91	40.76
60.0	16.63	21.10	26.80	32.05	36.57	40.05	42.37	43.41	43.21	42.01
62.5	16.57	21.59	27.45	32.87	37.58	41.15	43.55	44.63	44.40	43.17
65.0	16.68	22.03	28.01	33.62	38.46	42.16	44.63	45.77	45.48	44.20
67.5	16.86	22.41	28.48	34.29	39.26	43.06	45.62	46.78	46.49	45.14
70.0	17.04	22.67	28.86	34.86	39.95	43.84	46.48	47.68	47.38	46.00
72.5	17.12	22.81	29.15	35.30	40.51	44.54	47.24	48.48	48.15	46.73
75.0	17.17	22.83	29.32	35.64	41.01	45.13	47.88	49.15	48.79	47.32
77.5	17.08	22.76	29.39	35.88	41.37	45.56	48.37	49.69	49.29	47.77
80.0	16.55	22.55	29.35	35.99	41.58	45.81	48.53	49.81	49.36	47.78
82.5	15.59	22.27	29.18	35.91	41.35	45.54	48.28	49.57	49.15	47.48
85.0	14.28	21.90	28.72	35.25	40.55	44.77	47.54	48.84	48.41	46.67
87.5	13.29	21.25	27.76	34.00	39.41	43.80	46.70	48.04	47.61	45.82
90.0	12.49	20.21	26.67	32.77	38.28	42.80	45.79	47.19	46.76	44.93
92.5	11.82	19.29	25.61	31.60	37.20	41.80	44.85	46.28	45.85	44.00
95.0	11.35	18.47	24.64	30.52	36.14	40.78	43.88	45.32	44.89	43.05
97.5	10.88	17.72	23.71	29.51	35.12	39.74	42.85	44.30	43.89	42.06
100.0	10.26	16.89	22.79	28.56	34.12	38.70	41.81	43.25	42.88	41.04
102.5	9.663	15.88	21.91	27.65	33.13	37.66	40.73	42.19	41.82	40.04
105.0	9.082	14.90	20.94	26.81	32.16	36.62	39.63	41.08	40.74	39.01
107.5	8.455	13.99	20.03	25.96	31.23	35.57	38.52	39.94	39.62	37.96
110.0	7.897	13.14	19.22	25.10	30.32	34.53	37.41	38.79	38.50	36.90
112.5	7.652	12.39	18.53	24.28	29.36	33.49	36.26	37.63	37.36	35.82
115.0	7.551	11.74	17.89	23.50	28.41	32.43	35.10	36.44	36.20	34.72
117.5	7.501	11.14	17.27	22.74	27.44	31.34	33.93	35.24	35.01	33.63
120.0	7.474	10.63	16.66	21.95	26.49	30.24	32.75	34.02	33.81	32.49
122.5	7.510	10.38	16.07	21.16	25.52	29.12	31.53	32.78	32.60	31.33
125.0	7.546	10.26	15.47	20.36	24.54	27.99	30.30	31.52	31.35	30.16
127.5	7.557	10.17	14.88	19.59	23.58	26.85	29.04	30.23	30.07	28.94
130.0	7.555	10.13	14.30	18.81	22.59	25.69	27.77	28.89	28.75	27.73
132.5	7.554	10.06	13.73	18.00	21.59	24.53	26.48	27.53	27.41	26.46
135.0	7.502	9.986	13.22	17.15	20.60	23.35	25.18	26.17	26.05	25.16
137.5	7.325	9.841	12.79	16.31	19.58	22.14	23.87	24.79	24.66	23.85
140.0	7.158	9.291	12.25	15.47	18.49	20.92	22.53	23.40	23.28	22.50
142.5	6.964	8.583	11.79	14.62	17.36	19.66	21.16	21.99	21.87	21.14
145.0	6.750	7.834	11.32	13.80	16.22	18.41	19.79	20.55	20.44	19.76
147.5	6.506	7.487	10.68	13.02	15.13	17.15	18.42	19.13	19.01	18.38
150.0	6.248	7.120	9.874	12.22	14.08	15.89	17.06	17.70	17.57	17.01
152.5	6.013	6.717	8.962	11.41	13.06	14.69	15.73	16.29	16.04	15.64
155.0	5.731	6.282	8.057	10.61	12.05	13.52	14.48	14.94	14.61	14.34
157.5	5.384	5.832	7.297	9.804	11.04	12.39	13.24	13.61	13.23	12.99
160.0	4.951	5.376	6.707	8.989	10.05	11.21	12.06	12.32	11.92	11.69
162.5	4.316	4.695	5.978	8.052	8.972	10.10	10.89	11.10	10.56	10.06
165.0	3.410	3.760	4.807	6.863	7.667	8.729	9.326	9.450	8.404	7.610
167.5	2.705	2.858	3.747	5.436	5.957	6.736	7.037	7.069	5.302	5.420
170.0	2.168	2.233	2.675	4.309	4.700	5.269	5.510	5.621	2.484	4.701
172.5	1.658	1.675	2.051	3.553	3.959	4.288	4.886	5.195	1.159	4.050
175.0	1.616	1.732	2.353	3.209	3.879	4.043	4.577	4.776	1.041	2.344
177.5	3.158	3.321	3.673	4.130	4.469	4.346	4.586	4.278	1.000	1.264
180.0	5.007	5.002	5.007	5.016	4.703	4.658	4.667	4.264	0.9642	1.005

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: yechihong
 Test Date: 2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
 Humidity: 70%
 Test Distance: 8.425m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

G/C	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	290.0
0.0	19.43	19.42	19.45	19.43	19.45	19.42	19.44	19.41	19.43	19.45
2.5	18.52	18.59	18.72	18.83	18.98	19.13	19.30	19.47	19.66	19.87
5.0	17.81	17.92	18.11	18.29	18.56	18.83	19.16	19.50	19.89	20.31
7.5	17.21	17.36	17.57	17.82	18.16	18.52	18.99	19.49	20.10	20.74
10.0	16.73	16.86	17.11	17.37	17.76	18.20	18.77	19.45	20.27	21.17
12.5	16.34	16.46	16.68	16.95	17.36	17.86	18.55	19.37	20.41	21.65
15.0	16.06	16.12	16.28	16.53	16.94	17.50	18.27	19.26	20.53	22.17
17.5	15.99	15.89	15.95	16.14	16.54	17.14	18.02	19.18	20.66	22.71
20.0	16.31	15.96	15.68	15.77	16.17	16.83	17.84	19.15	20.90	23.34
22.5	17.37	16.42	15.71	15.48	15.85	16.54	17.64	19.11	21.15	23.99
25.0	18.82	17.53	16.04	15.36	15.53	16.21	17.41	19.06	21.40	24.63
27.5	20.30	18.81	16.94	15.44	15.23	15.90	17.20	19.01	21.67	25.39
30.0	21.83	20.12	18.00	15.83	14.97	15.60	16.97	18.96	21.94	26.15
32.5	23.38	21.46	19.08	16.60	14.94	15.33	16.80	18.99	22.24	26.90
35.0	25.00	22.84	20.17	17.41	15.02	15.17	16.72	19.07	22.62	27.68
37.5	26.67	24.27	21.27	18.25	15.51	15.06	16.64	19.13	22.99	28.49
40.0	28.30	25.71	22.44	19.12	16.23	14.97	16.55	19.21	23.34	29.25
42.5	29.90	27.14	23.65	20.07	16.96	15.04	16.46	19.87	23.67	29.98
45.0	31.43	28.53	24.87	21.10	17.69	15.16	16.37	19.38	24.03	30.65
47.5	32.89	29.85	26.07	22.16	18.41	15.46	16.26	19.25	24.36	31.30
50.0	34.30	31.13	27.25	23.21	19.13	15.96	16.14	19.21	24.63	31.88
52.5	35.64	32.37	28.42	24.22	19.89	16.47	16.02	19.12	24.91	32.43
55.0	36.95	33.52	29.50	25.17	20.66	16.99	15.90	19.09	25.21	32.98
57.5	38.20	34.66	30.52	26.04	21.42	17.50	15.82	19.03	25.44	33.49
60.0	39.37	35.74	31.49	26.86	22.15	18.05	15.83	18.98	25.63	33.95
62.5	40.45	36.75	32.39	27.61	22.78	18.61	16.05	18.85	25.68	34.31
65.0	41.41	37.69	33.22	28.30	23.35	19.18	16.38	18.60	25.57	34.49
67.5	42.29	38.53	33.94	28.89	23.87	19.68	16.80	18.32	25.33	34.44
70.0	43.09	39.25	34.56	29.39	24.29	20.05	17.12	17.96	25.00	34.14
72.5	43.77	39.86	35.09	29.77	24.63	20.27	17.29	17.42	24.53	33.54
75.0	44.32	40.37	35.48	30.06	24.84	20.31	17.20	16.49	23.85	32.49
77.5	44.74	40.74	35.77	30.26	24.92	20.24	16.62	15.39	23.73	31.01
80.0	44.79	40.85	35.91	30.33	24.90	19.95	15.81	14.42	21.08	29.49
82.5	44.50	40.49	35.60	30.20	24.76	19.50	14.94	12.81	19.03	27.89
85.0	43.68	39.68	34.88	29.66	24.33	18.92	13.78	9.928	16.89	26.21
87.5	42.80	38.73	33.95	28.80	23.46	17.88	12.27	5.554	15.00	24.72
90.0	41.90	37.81	33.00	27.90	22.53	16.62	10.83	2.349	13.76	23.30
92.5	40.98	36.89	32.08	27.01	21.65	15.54	9.899	4.611	12.92	22.06
95.0	40.05	35.96	31.15	26.14	20.84	14.65	9.202	5.151	12.29	20.94
97.5	39.08	35.05	30.28	25.31	20.07	13.91	8.547	5.514	11.62	19.90
100.0	38.14	34.16	29.43	24.54	19.32	13.15	7.813	5.342	10.66	18.91
102.5	37.18	33.29	28.65	23.79	18.58	12.31	7.141	5.224	9.717	17.82
105.0	36.22	32.42	27.87	23.08	17.66	11.56	6.558	5.179	8.861	16.82
107.5	35.25	31.54	27.11	22.27	16.79	10.91	6.206	5.309	8.169	15.91
110.0	34.27	30.67	26.33	21.48	16.02	10.28	6.053	5.526	7.949	15.04
112.5	33.28	29.81	25.54	20.75	15.29	9.703	6.180	5.839	8.049	14.28
115.0	32.29	28.91	24.77	20.05	14.62	9.124	6.370	6.155	8.121	13.64
117.5	31.28	28.02	24.04	19.41	14.00	8.566	6.555	6.436	8.184	13.05
120.0	30.24	27.11	23.33	18.75	13.41	8.067	6.682	6.667	8.277	12.55
122.5	29.17	26.23	22.61	18.06	12.84	7.887	6.754	6.839	8.435	12.16
125.0	28.12	25.35	21.83	17.37	12.26	7.823	6.795	6.948	8.610	11.74
127.5	27.05	24.40	20.96	16.65	11.70	7.800	6.813	7.025	8.601	11.39
130.0	25.94	23.40	20.05	15.92	11.17	7.863	6.840	7.044	8.437	11.04
132.5	24.80	22.33	19.13	15.17	10.84	7.949	6.849	7.035	8.201	10.76
135.0	23.59	21.21	18.18	14.41	10.57	7.954	6.840	6.972	7.934	10.41
137.5	22.36	20.10	17.20	13.66	10.34	7.837	6.813	6.904	7.722	9.988
140.0	21.09	18.94	16.22	12.96	10.11	7.678	6.763	6.813	7.504	9.451
142.5	19.81	17.76	15.23	12.35	9.753	7.474	6.690	6.709	7.233	8.883
145.0	18.52	16.61	14.27	11.84	9.363	7.253	6.604	6.592	6.974	8.215
147.5	17.24	15.48	13.41	11.24	8.930	6.977	6.496	6.460	6.721	7.504
150.0	15.97	14.39	12.66	10.54	8.468	6.696	6.378	6.306	6.495	6.946
152.5	14.72	13.44	11.90	9.828	7.949	6.505	6.233	6.153	6.273	6.560
155.0	13.61	12.53	11.03	9.036	7.264	6.302	6.079	5.994	6.057	6.281
157.5	12.59	11.53	9.882	7.974	6.820	6.085	5.920	5.827	5.888	6.053
160.0	11.46	10.07	8.436	6.921	6.540	5.917	5.767	5.686	5.722	5.835
162.5	9.428	8.190	6.934	6.506	6.287	5.723	5.617	5.536	5.550	5.618
165.0	6.768	6.652	6.431	6.194	6.066	5.538	5.450	5.374	5.381	5.419
167.5	5.485	5.992	6.079	5.922	5.852	5.356	5.282	5.215	5.201	5.220
170.0	4.939	5.139	5.775	5.655	5.631	5.161	5.115	5.052	5.043	5.035
172.5	4.457	4.528	5.358	5.423	5.427	5.088	4.930	4.880	4.862	4.844
175.0	3.815	4.138	4.614	5.437	5.459	5.396	5.325	5.291	5.265	5.070
177.5	3.333	3.771	3.851	4.876	5.296	5.306	5.269	5.238	5.237	5.215
180.0	1.520	3.345	3.363	3.766	4.722	5.025	5.020	5.007	5.006	5.007

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: yechihong
Test Date: 2019-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
Humidity: 70%
Test Distance: 8.425m [K=1.0000]
Remarks:

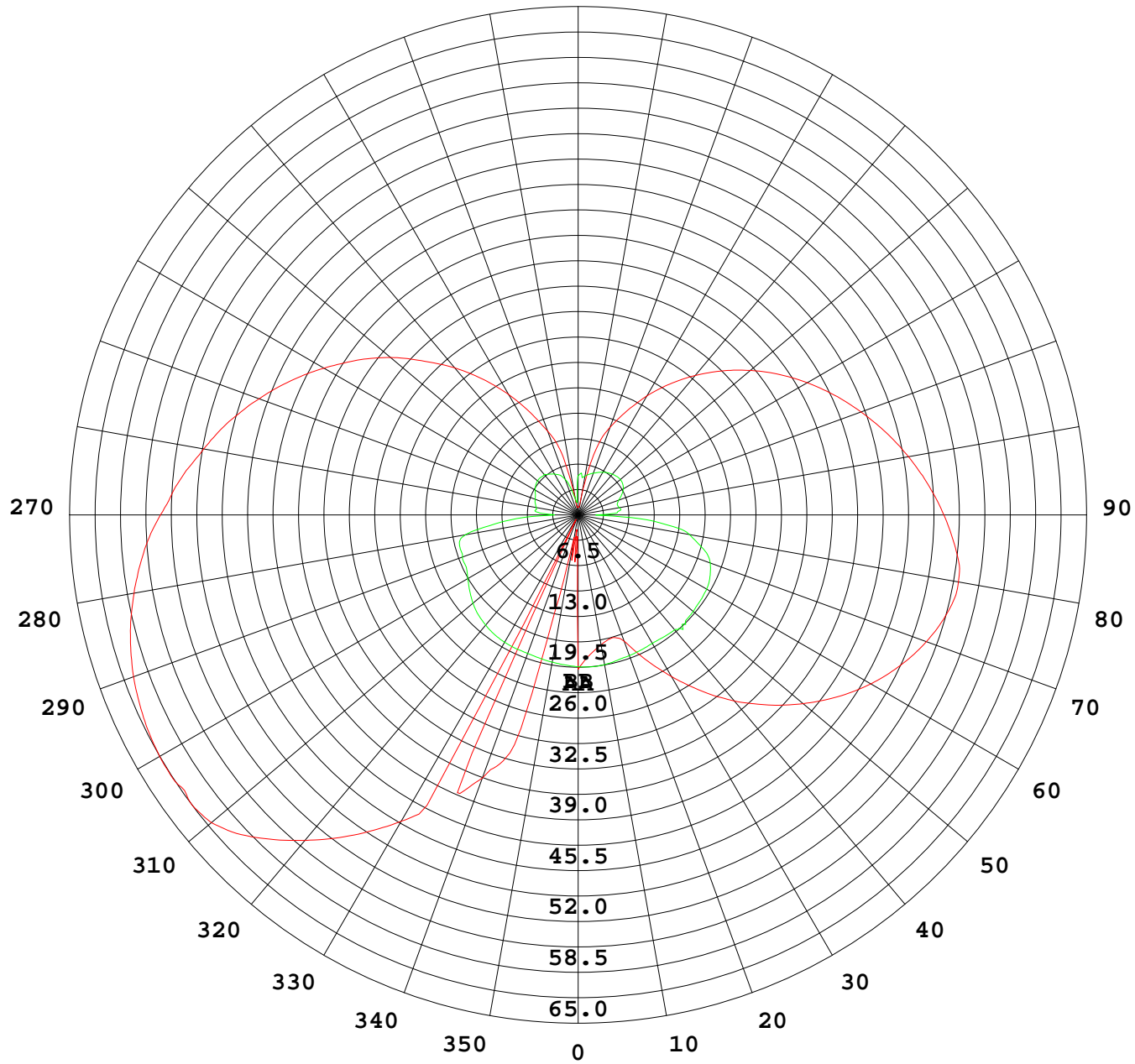
Photometric Data Table [cd]

G/C	300.0	310.0	320.0	330.0	340.0	350.0
0.0	19.44	19.72	19.47	19.53	19.53	19.59
2.5	20.04	20.50	20.39	20.58	20.65	20.77
5.0	20.67	21.34	21.46	21.85	22.07	22.30
7.5	21.38	22.38	22.81	23.46	23.84	24.16
10.0	22.21	23.59	24.27	25.17	25.74	26.21
12.5	23.09	24.78	25.85	27.17	28.00	28.58
15.0	24.00	26.16	27.68	29.28	30.30	30.96
17.5	24.91	27.03	29.53	31.39	32.61	33.36
20.0	26.03	29.24	31.39	33.53	34.92	35.79
22.5	27.24	30.67	33.23	35.65	37.25	38.20
25.0	28.40	32.20	35.08	37.76	39.54	40.61
27.5	29.58	33.74	36.95	39.86	41.83	43.00
30.0	30.72	35.22	38.80	41.96	44.12	45.42
32.5	31.83	36.86	40.62	44.06	46.42	47.81
35.0	32.95	38.16	42.44	46.18	48.69	50.18
37.5	34.08	39.49	44.28	48.28	50.93	52.46
40.0	35.21	40.97	46.09	50.28	53.04	54.62
42.5	36.29	42.45	47.84	52.21	55.06	56.68
45.0	37.34	43.89	49.50	54.04	56.96	58.62
47.5	38.39	45.28	51.11	55.76	58.75	60.36
50.0	39.39	46.58	52.61	57.35	60.18	61.63
52.5	40.33	47.78	53.98	58.56	61.13	62.30
55.0	41.22	48.85	55.06	59.25	61.61	62.52
57.5	42.01	49.81	55.65	59.44	61.56	62.52
60.0	42.70	50.38	55.64	59.16	61.41	62.39
62.5	43.24	50.35	55.06	58.76	61.21	62.20
65.0	43.48	49.65	54.33	58.31	60.93	61.96
67.5	43.11	48.52	53.54	57.77	60.55	61.63
70.0	41.99	47.33	52.70	57.16	60.08	61.22
72.5	40.52	46.10	51.77	56.41	59.49	60.65
75.0	39.06	44.86	50.77	55.55	58.75	59.99
77.5	37.57	43.55	49.63	54.58	57.92	59.22
80.0	36.15	42.19	48.42	53.53	56.98	58.36
82.5	34.76	40.83	47.17	52.39	55.97	57.40
85.0	33.44	39.52	45.93	51.25	54.91	56.41
87.5	32.17	38.31	44.70	50.06	53.79	55.38
90.0	30.94	37.22	43.49	48.87	52.64	54.28
92.5	29.77	36.16	42.33	47.65	51.42	53.15
95.0	28.68	35.18	41.20	46.43	50.21	51.96
97.5	27.62	34.16	40.09	45.19	48.95	50.71
100.0	26.60	33.06	38.94	43.97	47.66	49.42
102.5	25.64	31.99	37.78	42.70	46.36	48.08
105.0	24.58	30.94	36.61	41.45	45.02	46.71
107.5	23.52	29.87	35.46	40.19	43.67	45.32
110.0	22.49	28.75	34.31	38.94	42.31	43.91
112.5	21.52	27.65	33.16	37.69	40.94	42.46
115.0	20.58	26.55	31.96	36.40	39.56	40.97
117.5	19.64	25.50	30.76	35.09	38.17	39.47
120.0	18.72	24.45	29.56	33.75	36.74	37.95
122.5	17.89	23.41	28.35	32.39	35.27	36.41
125.0	17.11	22.36	27.13	31.00	33.76	34.85
127.5	16.38	21.33	25.90	29.55	32.21	33.22
130.0	15.60	20.36	24.66	28.11	30.60	31.57
132.5	14.72	19.39	23.42	26.66	28.95	29.88
135.0	13.79	18.43	22.11	25.21	27.30	28.16
137.5	12.85	17.40	20.84	23.77	25.64	26.42
140.0	12.08	16.03	19.57	22.27	23.99	24.68
142.5	11.24	14.64	18.21	20.77	22.33	22.98
145.0	10.44	13.37	16.67	19.22	20.68	21.28
147.5	9.715	12.11	15.27	17.55	19.02	19.57
150.0	8.837	10.82	13.82	15.73	17.36	17.86
152.5	7.568	9.435	12.20	14.04	15.71	16.15
155.0	6.717	7.836	10.54	12.49	13.78	14.51
157.5	6.309	6.796	8.747	11.01	11.91	12.89
160.0	6.016	6.207	7.104	8.874	10.58	11.46
162.5	5.735	5.863	6.017	6.640	8.441	9.750
165.0	5.491	5.536	5.603	5.656	5.863	7.209
167.5	5.255	5.274	5.296	5.266	5.206	5.164
170.0	5.043	5.039	5.030	4.985	4.920	4.790
172.5	4.844	4.821	4.799	4.749	4.689	4.586
175.0	4.970	4.914	4.595	4.559	4.499	4.437
177.5	5.197	4.799	4.758	4.588	4.346	4.310
180.0	5.020	5.020	4.708	4.658	4.667	4.255

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: yechihong
Test Date: 2019-11-21

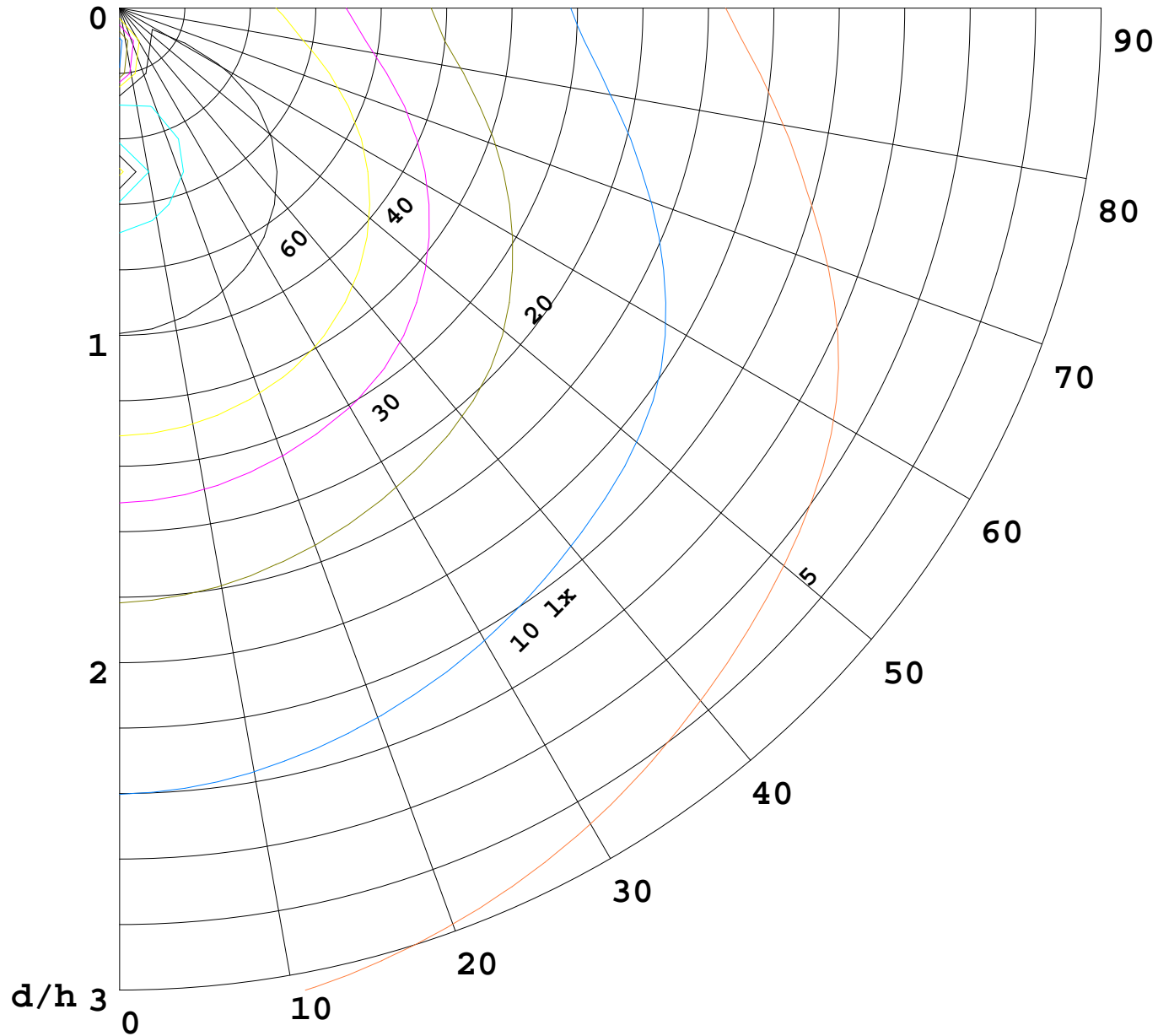
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.272
Humidity: 70%
Test Distance: 8.425m [K=1.0000]
Remarks:

I (cd)



1000 lm

$K = 1$



F = 5000 lm
K = 0.7
Hcc = 0.0 m
Hfc = 0.0 m
Eave = 100 lx

	Pcc	Pw	Pfc
—————	70	50	30
—————	50	30	20

