
LED Tracklight BO Series LE-BO
S-15W-930-22D



Light Output Ratio:	100.0%	
Luminaire Power:	14.65 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-31

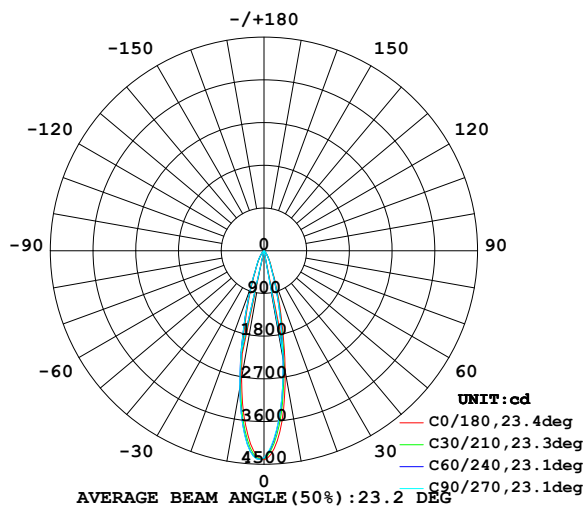
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

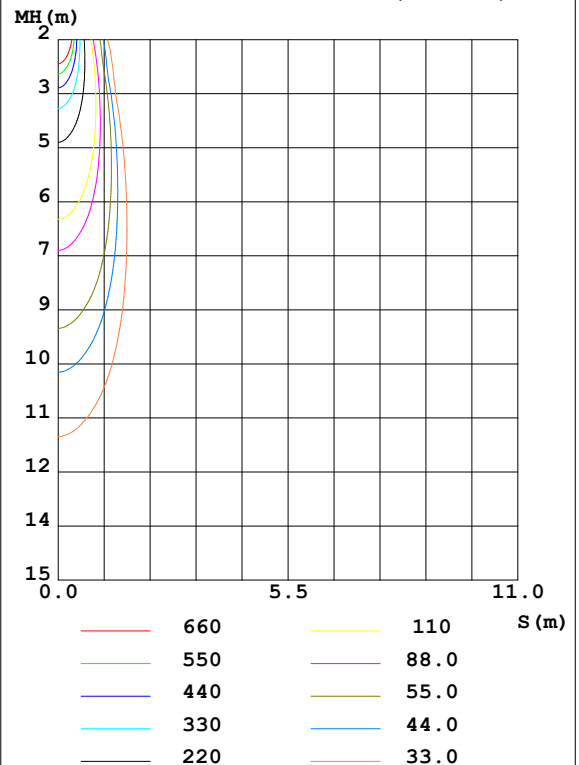
Test:U:220.8V I:0.0724A P:14.65W PF:0.9161 Lamp Flux:1058.75x1 lm		
NAME: BO S-15W-930-22D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 82mm*H77mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.29 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	4402	S/MH (C0/180)	0.41
NOMINAL POWER (W)	15.0	LOR (%)	100.0	S/MH (C90/270)	0.43
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1058.8	η UP, DN (C0-180)	0.0, 46.3
NOMINAL FLUX (lm)	1058.75	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 53.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



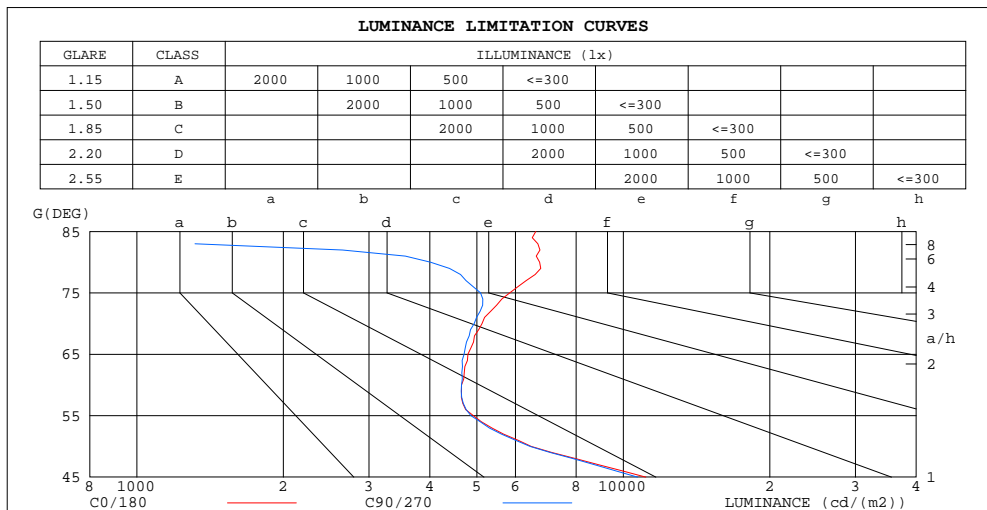
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γ Range: 0 - 90DEG
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 Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	2574	2383	2312	2469	2732	2866	2933	2778	0- 10	326.8	326.8	30.9,30.9
20	672.9	608.4	595.1	647.0	744.6	788.7	810.1	744.7	10- 20	399.8	726.6	68.6,68.6
30	218.8	200.6	194.1	207.3	234.2	244.5	251.8	240.2	20- 30	176.4	903.0	85.3,85.3
40	74.81	69.44	69.95	73.33	81.84	86.17	89.71	81.91	30- 40	85.32	988.3	93.3,93.3
50	21.93	21.27	21.82	23.76	27.35	27.34	26.78	23.93	40- 50	35.76	1024	96.7,96.7
60	12.27	12.09	12.27	12.49	13.00	12.69	12.31	12.37	50- 60	14.58	1039	98.1,98.1
70	9.247	8.990	8.908	9.427	9.948	9.275	8.790	8.895	60- 70	10.64	1049	99.1,99.1
80	6.168	4.607	3.679	4.794	7.096	4.708	3.616	4.304	70- 80	7.760	1057	99.8,99.8
90	0.0700	0.0612	0.0678	0.0634	0.0481	0.0481	0.0459	0.0503	80- 90	1.698	1059	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



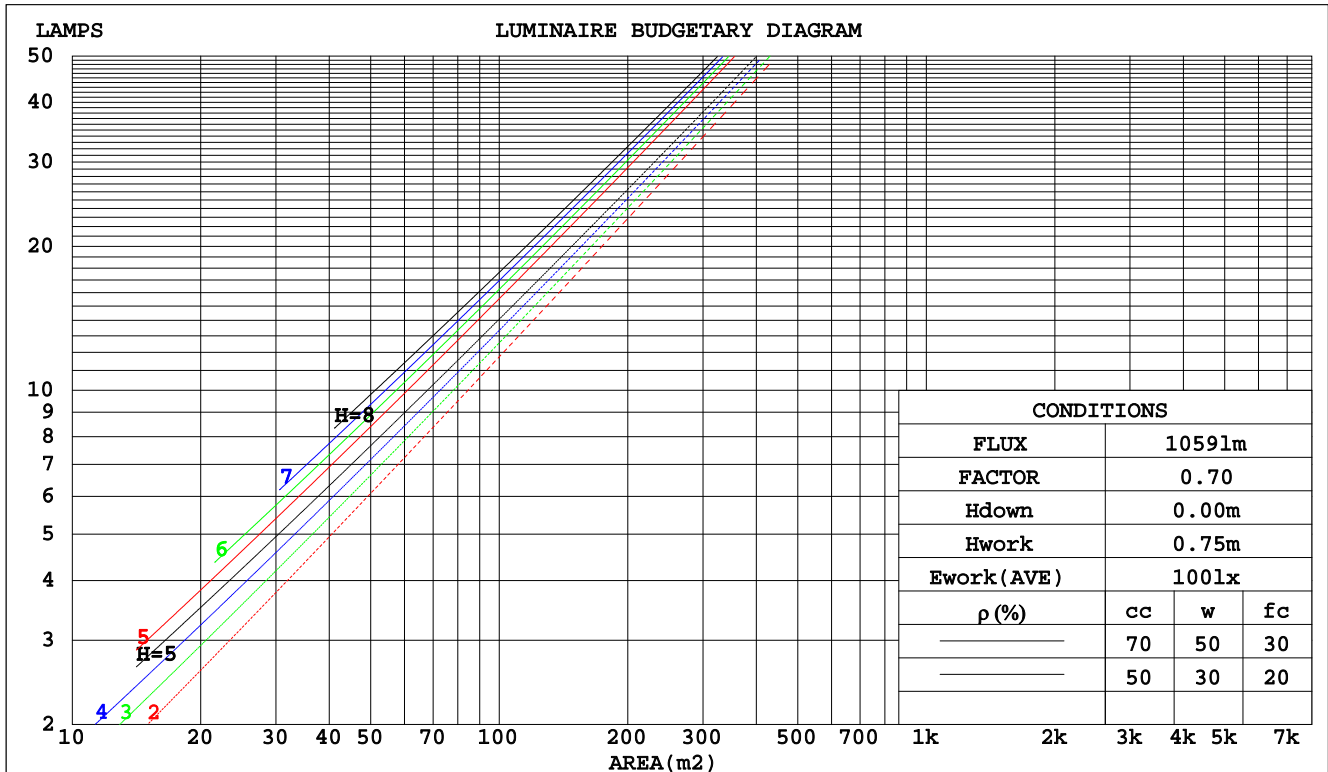
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.8V I:0.0724A P:14.65W PF:0.9161 Lamp Flux:1058.75x1 lm		
NAME: BO S-15W-930-22D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi 82\text{mm} \times H77\text{mm}$	
MFR.:		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.91	.89	.92	.90	.88	.86
4.0	.96	.91	.88	.94	.90	.87	.92	.89	.86	.91	.87	.85	.89	.86	.84	.83
5.0	.91	.87	.83	.90	.86	.83	.89	.85	.82	.87	.84	.81	.86	.83	.81	.79
6.0	.88	.83	.79	.87	.82	.79	.85	.82	.79	.84	.81	.78	.83	.80	.78	.76
7.0	.84	.79	.76	.84	.79	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.74
8.0	.81	.76	.73	.81	.76	.73	.80	.76	.73	.79	.75	.73	.78	.75	.72	.71
9.0	.78	.74	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.76	.72	.70	.69
10.0	.76	.71	.68	.75	.71	.68	.75	.71	.68	.74	.70	.68	.73	.70	.68	.67



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WEC AND CCEC

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MFR.:		

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.156	.089	.028	.149	.085	.027	.137	.079	.025	.125	.072	.023	.115	.067	.021		
2.0	.146	.080	.024	.140	.077	.024	.130	.072	.022	.120	.067	.021	.111	.063	.020		
3.0	.136	.072	.022	.131	.070	.021	.123	.067	.020	.115	.063	.019	.107	.059	.018		
4.0	.128	.066	.019	.124	.065	.019	.116	.062	.018	.109	.059	.018	.103	.056	.017		
5.0	.120	.061	.018	.117	.060	.017	.110	.057	.017	.104	.055	.016	.099	.053	.016		
6.0	.113	.057	.016	.111	.056	.016	.105	.054	.016	.100	.052	.015	.095	.050	.015		
7.0	.108	.053	.015	.105	.052	.015	.100	.051	.015	.096	.049	.014	.091	.047	.014		
8.0	.102	.050	.014	.100	.049	.014	.096	.048	.014	.092	.046	.013	.088	.045	.013		
9.0	.097	.047	.013	.095	.047	.013	.092	.045	.013	.088	.044	.013	.085	.043	.012		
10.0	.093	.045	.012	.091	.044	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.170	.157	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.081	.054	.034	.056	.038	.024	.033	.022	.015	.011	.007	.005	
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.030	.072	.045	.026	.050	.032	.019	.029	.019	.011	.010	.006	.004	

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 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.: $\phi 82\text{mm} \times H77\text{mm}$					
MFR.:										
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	13.5	14.3	13.7	14.4	14.6	13.3	14.0	13.5	14.2	14.3
3H	14.2	14.9	14.4	15.1	15.3	14.0	14.7	14.2	14.9	15.0
4H	14.7	15.4	15.0	15.6	15.8	14.4	15.1	14.7	15.3	15.5
6H	15.3	15.9	15.6	16.2	16.4	14.7	15.3	15.0	15.6	15.8
8H	15.6	16.2	15.9	16.4	16.7	14.7	15.3	15.0	15.6	15.9
12H	15.7	16.3	16.0	16.6	16.9	14.7	15.3	15.0	15.5	15.8
4H 2H	13.6	14.3	13.9	14.5	14.7	13.4	14.1	13.7	14.3	14.5
3H	14.6	15.1	14.9	15.4	15.7	14.4	14.9	14.7	15.2	15.5
4H	15.3	15.8	15.6	16.1	16.4	15.0	15.5	15.3	15.8	16.1
6H	16.1	16.6	16.5	16.9	17.2	15.4	15.9	15.8	16.2	16.6
8H	16.4	16.9	16.8	17.2	17.6	15.5	15.9	15.8	16.3	16.6
12H	16.6	17.1	17.1	17.4	17.8	15.4	15.8	15.8	16.2	16.6
8H 4H	15.5	15.9	15.9	16.3	16.6	15.2	15.7	15.6	16.0	16.4
6H	16.5	16.8	16.9	17.2	17.6	15.8	16.1	16.2	16.5	16.9
8H	16.9	17.2	17.3	17.6	18.0	15.8	16.2	16.3	16.6	17.0
12H	17.2	17.4	17.6	17.9	18.3	15.8	16.1	16.2	16.5	17.0
12H 4H	15.5	15.9	15.9	16.3	16.6	15.2	15.6	15.6	16.0	16.4
6H	16.5	16.8	16.9	17.2	17.7	15.8	16.1	16.3	16.6	17.0
8H	16.9	17.2	17.4	17.6	18.1	15.9	16.2	16.4	16.6	17.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.8					+ 0.9 / - 1.0				
1.5H	+ 1.8 / - 0.8					+ 1.9 / - 1.0				
2.0H	+ 1.2 / - 0.4					+ 1.5 / - 0.6				

CIE Pub.117 Corrected 1059 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.2)

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UTILIZATION FACTORS TABLE

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SPEC.:3000K	DIM.: $\varnothing 82\text{mm} \times H77\text{mm}$	
MFR.:		

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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	93	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	104	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	103	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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Conical surface Flux(90deg):

1010.5 lm

%lum = 95.4%

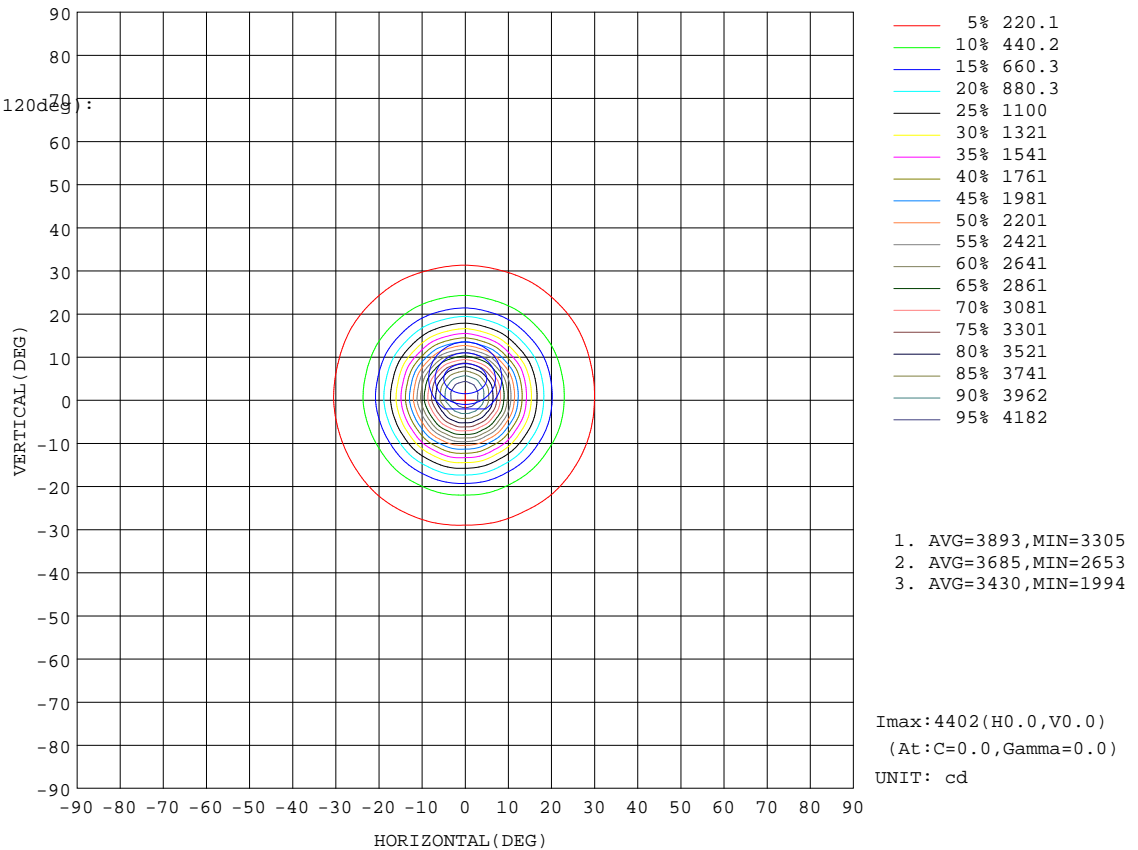
%lamp = 95.4%

Conical surface Flux(120deg):

1038.7 lm

%lum = 98.1%

%lamp = 98.1%

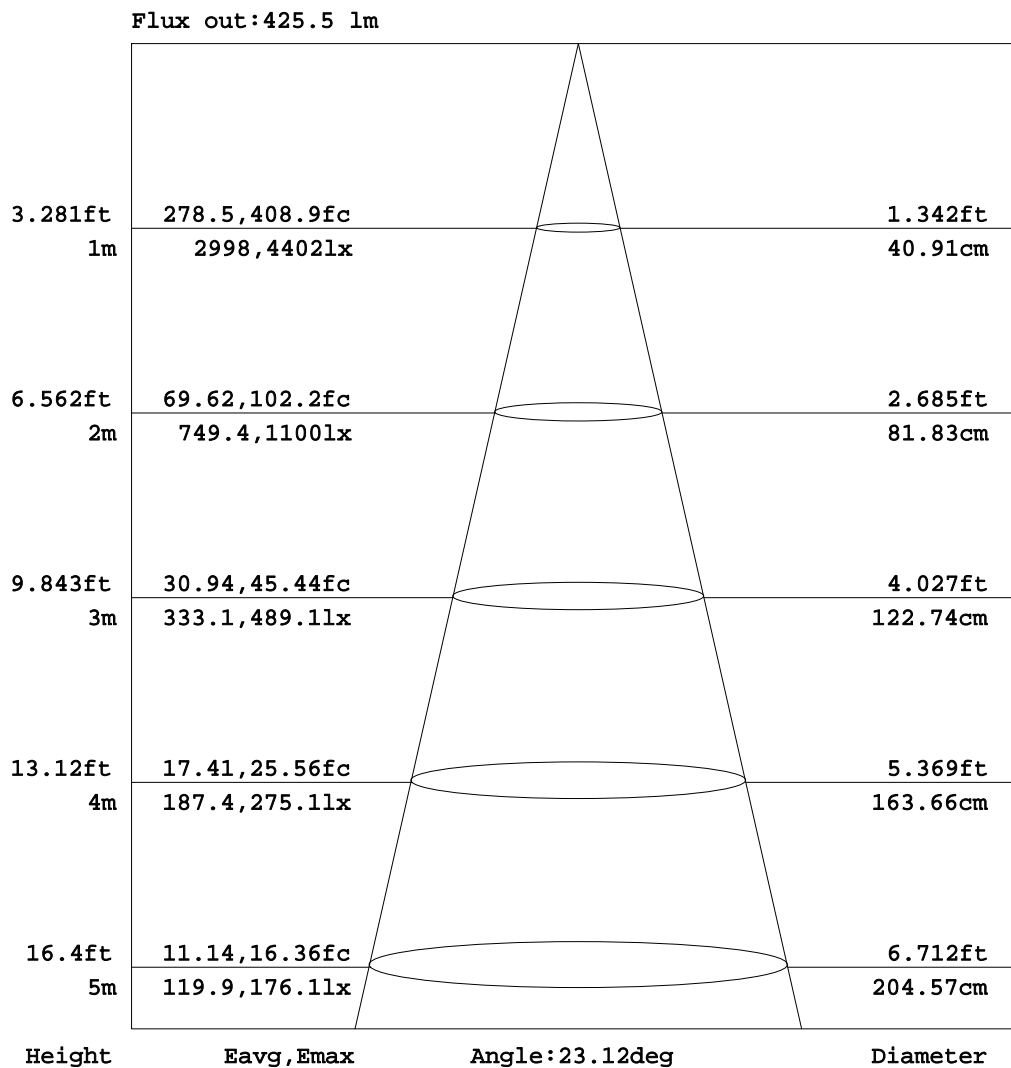


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AAI Figure

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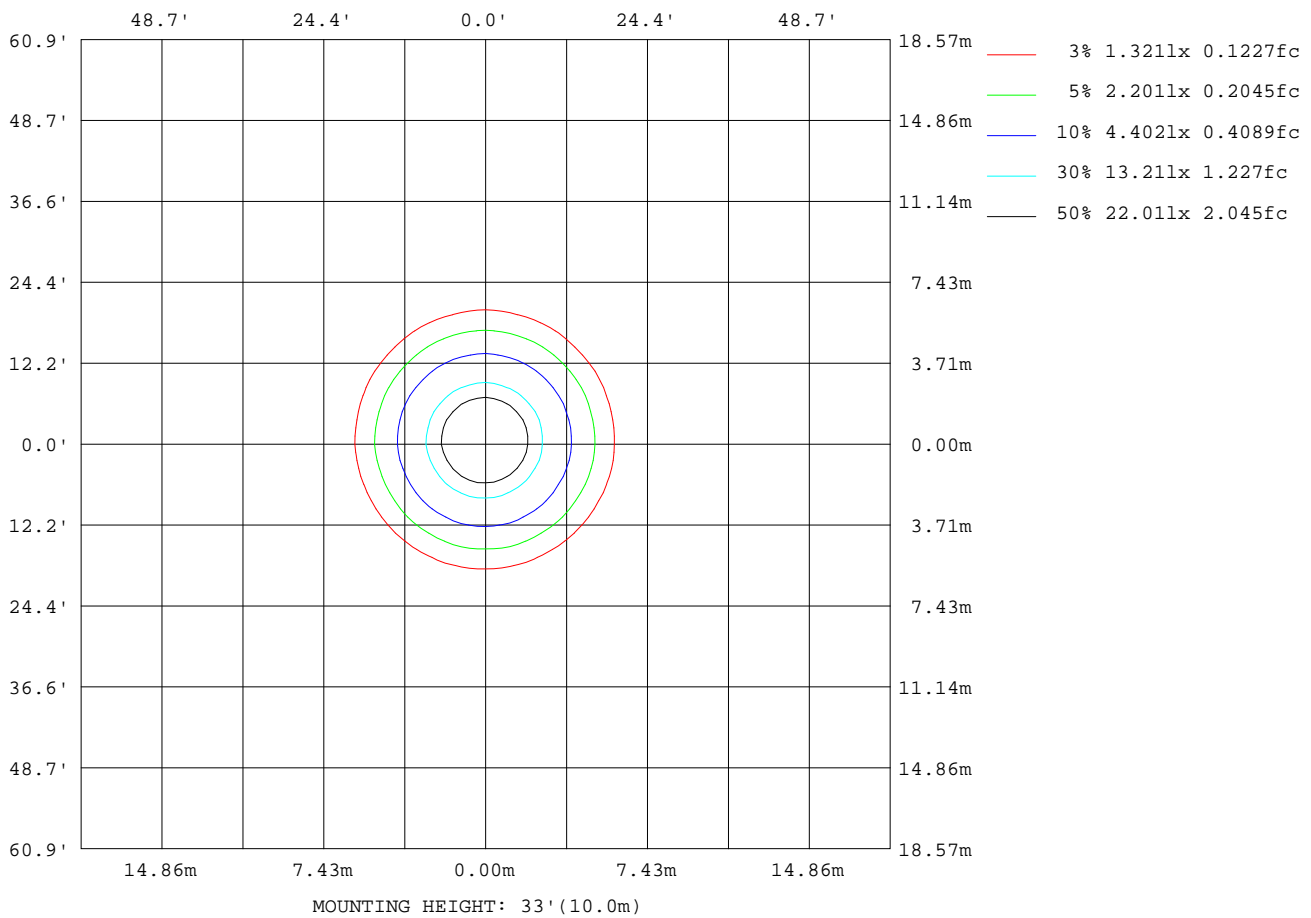
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

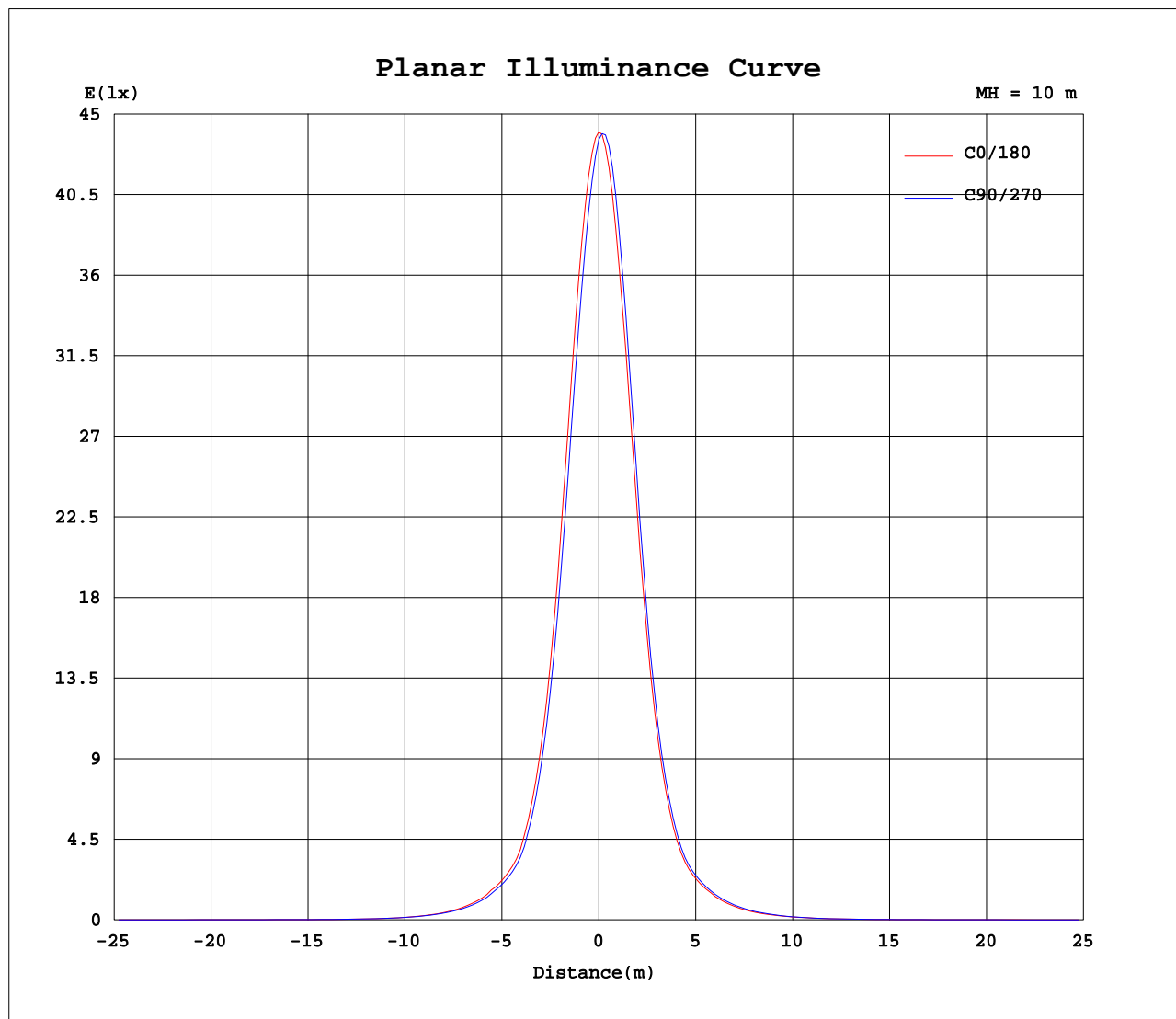
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Planar Illuminance Curve



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Table--1

UNIT: cd

[illegible]

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Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-31

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

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Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	4402	4393	4382	4379	4367	4369	4358	4362	4354	4357
3.0	4171	4131	4067	4047	3994	3996	3971	4004	4002	4049
6.0	3618	3568	3466	3437	3365	3372	3344	3391	3397	3467
9.0	2845	2798	2675	2653	2579	2600	2572	2637	2644	2736
12.0	2039	1991	1891	1871	1815	1838	1825	1882	1891	1970
15.0	1374	1340	1268	1257	1213	1236	1223	1270	1276	1336
18.0	904.3	883.8	834.6	825.8	794.3	805.9	797.4	827.4	832.9	874.5
21.0	583.4	559.3	524.9	517.7	499.5	508.7	504.1	522.5	528.2	555.2
24.0	393.6	383.7	367.0	362.3	353.6	357.7	354.0	359.9	360.1	371.0
27.0	295.6	288.7	276.8	272.4	265.6	267.1	265.0	270.4	270.8	278.0
30.0	218.8	213.5	203.9	200.6	194.9	196.2	194.1	198.4	199.8	207.3
33.0	160.4	156.3	149.2	147.2	143.8	146.1	144.8	147.3	147.4	151.8
36.0	116.2	112.8	108.0	106.6	105.0	106.8	106.3	107.5	107.6	110.5
39.0	83.68	81.40	78.27	77.46	76.34	77.88	77.79	78.94	79.03	81.30
42.0	59.39	58.10	55.75	55.61	54.70	55.82	56.15	57.28	57.56	59.52
45.0	41.52	40.65	38.99	39.25	38.60	39.67	39.94	41.23	41.57	43.20
48.0	28.16	27.57	26.52	26.91	26.70	27.57	27.82	29.14	29.53	30.80
51.0	20.17	19.87	19.35	19.48	19.38	19.78	19.91	20.49	20.54	21.20
54.0	15.84	15.64	15.35	15.50	15.46	15.67	15.77	16.09	16.06	16.36
57.0	13.45	13.33	13.16	13.23	13.24	13.38	13.47	13.64	13.65	13.79
60.0	12.27	12.18	12.06	12.09	12.11	12.23	12.27	12.36	12.37	12.49
63.0	11.32	11.19	11.10	11.11	11.07	11.18	11.19	11.33	11.38	11.50
66.0	10.43	10.33	10.24	10.21	10.12	10.17	10.16	10.30	10.40	10.58
69.0	9.533	9.498	9.387	9.303	9.182	9.166	9.178	9.288	9.436	9.701
72.0	8.705	8.691	8.515	8.413	8.302	8.280	8.282	8.418	8.566	8.835
75.0	7.981	7.981	7.645	7.523	7.312	7.123	6.953	7.263	7.592	7.886
78.0	7.227	7.082	6.499	5.948	5.364	5.194	5.079	5.271	5.539	6.227
81.0	5.469	5.155	4.456	3.833	3.398	3.160	2.942	3.170	3.464	3.962
84.0	3.586	3.078	2.110	0.9918	0.3412	0.2613	0.2371	0.2657	0.3015	0.8355
87.0	0.9833	0.5107	0.1244	0.0894	0.1053	0.0851	0.1053	0.0830	0.1053	0.0873
90.0	0.0700	0.0678	0.0700	0.0612	0.0656	0.0634	0.0678	0.0678	0.0678	0.0634
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4351	4351	4402	4393	4382	4379	4367	4369	4358	4362
3.0	4065	4115	4218	4239	4285	4298	4327	4324	4337	4315
6.0	3488	3571	3705	3735	3815	3838	3894	3882	3906	3861
9.0	2756	2859	2994	3030	3122	3135	3198	3173	3200	3143
12.0	1993	2085	2206	2236	2324	2328	2388	2360	2381	2319
15.0	1354	1436	1519	1534	1604	1602	1648	1620	1636	1582
18.0	887.0	934.5	998.7	1011	1059	1058	1085	1065	1078	1041
21.0	571.8	594.5	640.6	649.6	681.7	680.6	701.5	690.3	699.0	674.3
24.0	376.5	395.2	422.9	426.2	441.9	442.2	454.6	450.3	455.2	440.2
27.0	281.1	291.8	309.6	311.6	320.7	320.7	330.1	330.4	334.3	325.8
30.0	210.4	221.3	234.2	235.2	243.0	244.5	249.7	248.7	251.8	249.0
33.0	153.4	158.9	169.5	171.6	177.8	178.8	184.0	183.7	186.4	181.9
36.0	111.9	115.7	123.6	125.5	130.7	130.6	135.4	135.0	137.7	133.1
39.0	82.24	84.94	90.75	92.11	94.99	95.70	98.07	98.87	99.72	96.97
42.0	60.01	62.34	66.62	67.80	69.68	69.85	71.32	71.52	72.11	69.90
45.0	43.72	45.39	48.57	48.96	50.62	50.04	50.83	50.50	50.99	49.20
48.0	31.23	32.48	34.74	34.89	35.73	35.21	35.48	34.83	35.05	33.83
51.0	21.42	22.11	23.51	23.57	24.17	23.66	23.87	23.30	23.41	22.77
54.0	16.36	16.77	17.72	17.71	17.93	17.68	17.82	17.32	17.59	17.18
57.0	13.75	13.87	14.44	14.42	14.44	14.28	14.23	13.95	14.02	13.85
60.0	12.46	12.56	13.00	12.94	12.90	12.69	12.50	12.25	12.31	12.28
63.0	11.51	11.61	11.98	11.92	11.84	11.55	11.35	11.17	11.17	11.17
66.0	10.66	10.74	11.09	11.00	10.90	10.56	10.37	10.15	10.14	10.07
69.0	9.809	9.907	10.19	10.11	9.880	9.562	9.369	9.110	9.092	9.003
72.0	8.949	9.135	9.368	9.220	8.928	8.624	8.414	8.178	8.070	8.053
75.0	8.024	8.331	8.606	8.305	7.942	7.649	7.451	7.033	6.818	6.850
78.0	6.857	7.383	7.851	7.310	6.807	6.108	5.502	5.125	4.950	4.981
81.0	4.667	5.615	6.378	5.599	4.764	3.896	3.560	3.164	3.030	2.957
84.0	2.089	2.471	4.308	3.000	2.375	1.114	0.5910	0.3734	0.4009	0.3222
87.0	0.1166	0.3263	1.950	0.4166	0.0741	0.0921	0.0676	0.0898	0.0699	0.0898
90.0	0.0656	0.0678	0.0481	0.0590	0.0459	0.0481	0.0459	0.0481	0.0459	0.0459
G/C	300.0	315.0	330.0	345.0						
0.0	4354	4357	4351	4351						
3.0	4305	4262	4233	4178						
6.0	3855	3781	3754	3660						
9.0	3138	3050	3024	2921						
12.0	2311	2231	2209	2113						
15.0	1577	1512	1514	1425						
18.0	1039	995.0	988.1	937.2						
21.0	671.2	639.3	631.8	603.3						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-07-31

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288

Humidity: 52%

Test Distance: 5.850m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	436.4	419.5	415.6	401.0
27.0	323.8	314.3	311.6	300.6
30.0	249.2	240.2	236.4	224.7
33.0	180.7	173.8	170.9	163.4
36.0	132.2	126.1	123.3	118.4
39.0	95.10	91.30	89.05	85.42
42.0	68.63	65.81	63.73	60.58
45.0	48.63	46.07	44.90	42.45
48.0	33.32	31.48	30.63	28.88
51.0	22.42	21.62	21.14	20.25
54.0	17.10	16.55	16.34	15.82
57.0	13.92	13.79	13.69	13.41
60.0	12.39	12.37	12.35	12.14
63.0	11.26	11.29	11.31	11.22
66.0	10.19	10.27	10.33	10.30
69.0	9.129	9.234	9.350	9.413
72.0	8.148	8.222	8.358	8.510
75.0	7.142	7.236	7.396	7.620
78.0	5.241	5.712	6.304	6.672
81.0	3.271	3.587	4.315	4.864
84.0	0.5089	1.008	2.155	2.898
87.0	0.0676	0.0877	0.0763	0.5852
90.0	0.0415	0.0503	0.0481	0.0590

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-31

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks: