
LED Tracklight BO Series LE-BO
S-15W-940-40D



Light Output Ratio:	100.0%	
Luminaire Power:	14.73 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	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

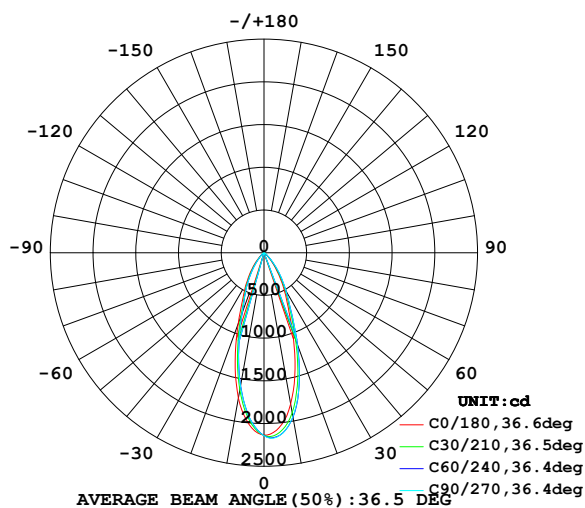
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

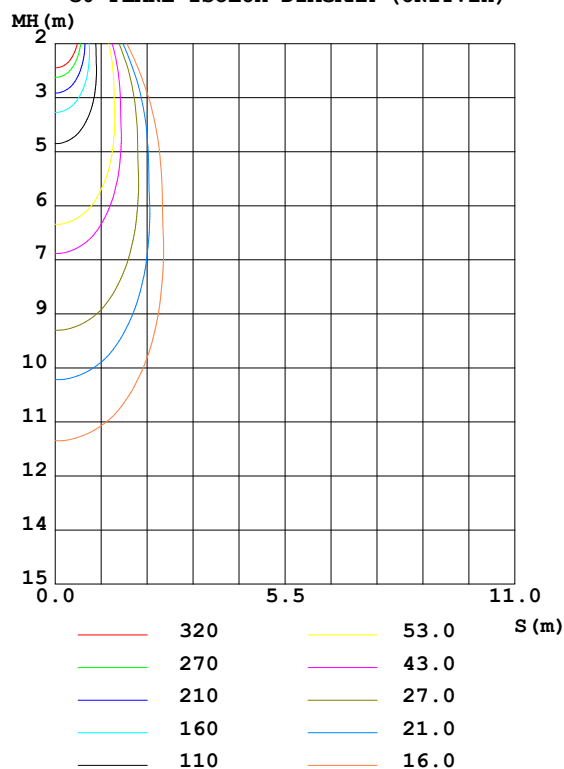
Test:U:220.7V I:0.0727A P:14.73W PF:0.9171 Lamp Flux:1139.61x1 lm		
NAME: BO S-15W-940-40D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 82mm*H77mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.39 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	2172	S/MH (C0/180)	0.58
NOMINAL POWER (W)	15.0	LOR (%)	100.0	S/MH (C90/270)	0.52
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1139.6	η UP,DN (C0-180)	0.0, 55.6
NOMINAL FLUX (lm)	1139.61	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0, 44.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



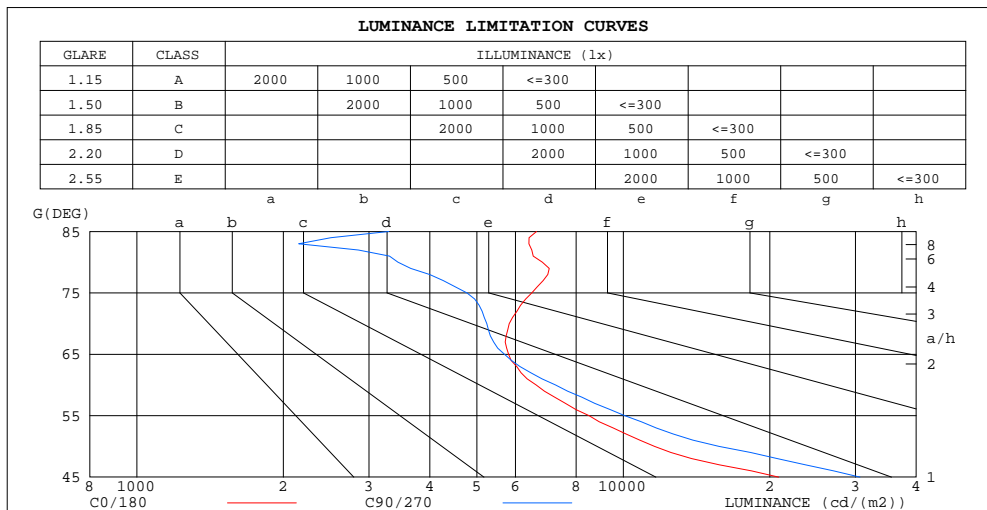
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1799	1943	1949	1857	1727	1587	1586	1672	0- 10	186.1	186.1	16.3,16.3
20	978.8	1133	1141	1020	882.8	752.0	751.9	832.7	10- 20	372.7	558.7	49,49
30	442.5	510.1	513.3	467.0	414.9	358.4	355.1	385.7	20- 30	291.1	849.8	74.6,74.6
40	157.7	198.5	213.9	195.2	163.4	127.2	117.2	130.2	30- 40	176.1	1026	90,90
50	39.33	48.38	53.37	50.59	43.00	34.27	32.22	34.27	40- 50	68.25	1094	96,96
60	17.46	19.39	19.14	19.77	18.27	15.09	13.84	15.27	50- 60	24.21	1118	98.1,98.1
70	10.52	10.00	9.460	9.981	10.46	8.763	8.003	9.047	60- 70	12.53	1131	99.2,99.2
80	6.247	3.796	3.154	3.711	6.275	2.346	0.9069	2.706	70- 80	7.192	1138	99.9,99.9
90	0.0743	0.0700	0.9905	0.0940	0.0525	0.0547	0.0525	0.0568	80- 90	1.476	1140	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		



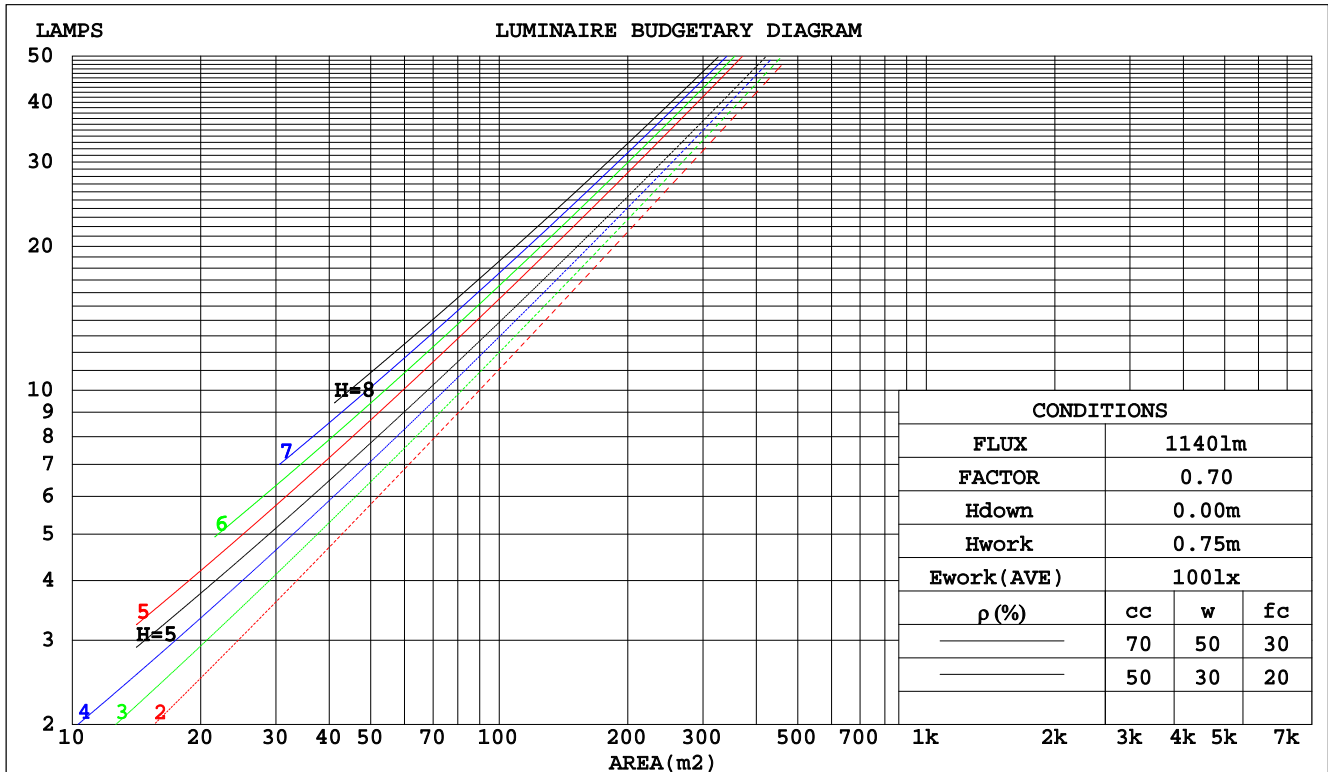
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0727A P:14.73W PF:0.9171 Lamp Flux:1139.61x1 lm		
NAME: BO S-15W-940-40D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: $\phi 82\text{mm} \times \text{H}77\text{mm}$	
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	1.11	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.00	.98	.98	.96	.95	.94
2.0	1.03	.99	.96	1.02	.98	.95	.98	.96	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.86	.81	.90	.85	.81	.88	.83	.80	.86	.82	.79	.84	.81	.78	.77
5.0	.86	.80	.76	.85	.79	.76	.83	.78	.75	.81	.77	.74	.80	.76	.74	.72
6.0	.81	.75	.71	.80	.75	.71	.79	.74	.70	.77	.73	.70	.76	.72	.69	.68
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.66	.74	.69	.66	.72	.69	.66	.64
8.0	.73	.67	.63	.72	.67	.63	.71	.66	.63	.70	.66	.63	.69	.65	.62	.61
9.0	.69	.64	.60	.69	.63	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
10.0	.66	.61	.57	.66	.60	.57	.65	.60	.57	.64	.60	.57	.63	.59	.56	.55



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

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SPEC.:4000K	DIM.: ϕ 82mm*H77mm	
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	.176	.100	.032	.169	.097	.031	.157	.090	.029	.145	.084	.027	.135	.078	.025		
2.0	.167	.092	.028	.162	.089	.027	.151	.084	.026	.142	.079	.025	.133	.075	.024		
3.0	.158	.084	.025	.154	.082	.025	.145	.078	.024	.136	.075	.023	.129	.071	.022		
4.0	.150	.078	.023	.146	.076	.023	.138	.073	.022	.131	.070	.021	.124	.068	.021		
5.0	.142	.072	.021	.139	.071	.021	.132	.069	.020	.126	.066	.020	.120	.064	.019		
6.0	.135	.068	.019	.132	.067	.019	.126	.065	.019	.121	.063	.018	.115	.061	.018		
7.0	.129	.064	.018	.126	.063	.018	.121	.061	.018	.116	.059	.017	.111	.058	.017		
8.0	.123	.060	.017	.120	.059	.017	.116	.058	.016	.111	.056	.016	.107	.055	.016		
9.0	.117	.057	.016	.115	.056	.016	.111	.055	.016	.107	.054	.015	.103	.053	.015		
10.0	.112	.054	.015	.110	.053	.015	.107	.052	.015	.103	.051	.015	.100	.050	.014		

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.123	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.099	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.089	.055	.032	.061	.039	.023	.036	.023	.014	.012	.008	.004	
9.0	.098	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.080	.047	.024	.056	.033	.017	.032	.019	.010	.011	.006	.003	

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

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0727A P:14.73W PF:0.9171 Lamp Flux:1139.61x1 lm										
NAME: BO S-15W-940-40D					TYPE:Downlight			SERIAL No.:		
SPEC.:4000K					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	18.8	19.7	19.0	19.8	20.0	19.7	20.6	19.9	20.8	21.0
3H	18.8	19.7	19.1	19.9	20.1	19.7	20.6	20.0	20.8	21.0
4H	18.9	19.7	19.2	20.0	20.2	19.7	20.5	20.0	20.7	21.0
6H	19.1	19.8	19.4	20.1	20.3	19.7	20.4	20.0	20.7	20.9
8H	19.1	19.8	19.4	20.1	20.3	19.7	20.4	20.0	20.6	20.9
12H	19.1	19.8	19.4	20.1	20.4	19.6	20.3	19.9	20.6	20.9
4H 2H	18.6	19.4	18.9	19.7	19.9	19.6	20.4	19.8	20.6	20.8
3H	18.8	19.5	19.1	19.8	20.1	19.6	20.3	20.0	20.6	20.9
4H	19.0	19.6	19.3	19.9	20.2	19.7	20.3	20.0	20.6	20.9
6H	19.2	19.8	19.6	20.1	20.5	19.7	20.2	20.1	20.6	20.9
8H	19.3	19.8	19.7	20.2	20.5	19.7	20.2	20.1	20.5	20.9
12H	19.4	19.8	19.8	20.2	20.6	19.6	20.1	20.0	20.5	20.9
8H 4H	19.0	19.5	19.4	19.8	20.2	19.6	20.1	20.0	20.5	20.9
6H	19.3	19.7	19.7	20.1	20.5	19.7	20.1	20.1	20.5	20.9
8H	19.4	19.7	19.8	20.2	20.6	19.6	20.0	20.1	20.4	20.9
12H	19.5	19.8	19.9	20.2	20.7	19.6	19.9	20.1	20.4	20.8
12H 4H	18.9	19.4	19.3	19.8	20.2	19.6	20.1	20.0	20.4	20.8
6H	19.2	19.6	19.7	20.0	20.5	19.6	20.0	20.1	20.4	20.9
8H	19.3	19.7	19.8	20.1	20.6	19.6	19.9	20.1	20.4	20.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.7 / - 2.8					+ 2.3 / - 4.2				
1.5H	+ 3.0 / - 2.6					+ 3.9 / - 3.8				
2.0H	+ 2.6 / - 1.4					+ 4.4 / - 2.5				

CIE Pub.117 Corrected 1140 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.5)

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 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0727A P:14.73W PF:0.9171 Lamp Flux:1139.61x1 lm		
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SPEC.:4000K	DIM.: $\phi 82\text{mm} \times H77\text{mm}$	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	85	79	75	85	78	75	84	78	74	71
0.80	93	87	83	92	86	83	91	86	82	78
1.00	98	92	88	97	91	88	95	91	87	83
1.25	102	96	93	101	96	92	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	106	102	108	104	102	105	102	100	94
3.00	111	108	105	109	106	104	106	104	101	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	113	110	109	109	107	106	98
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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SPEC.:4000K	DIM.: ϕ 82mm*H77mm	
MFR.:		

Conical surface Flux(90deg):

1070.2 lm

%lum = 93.9%

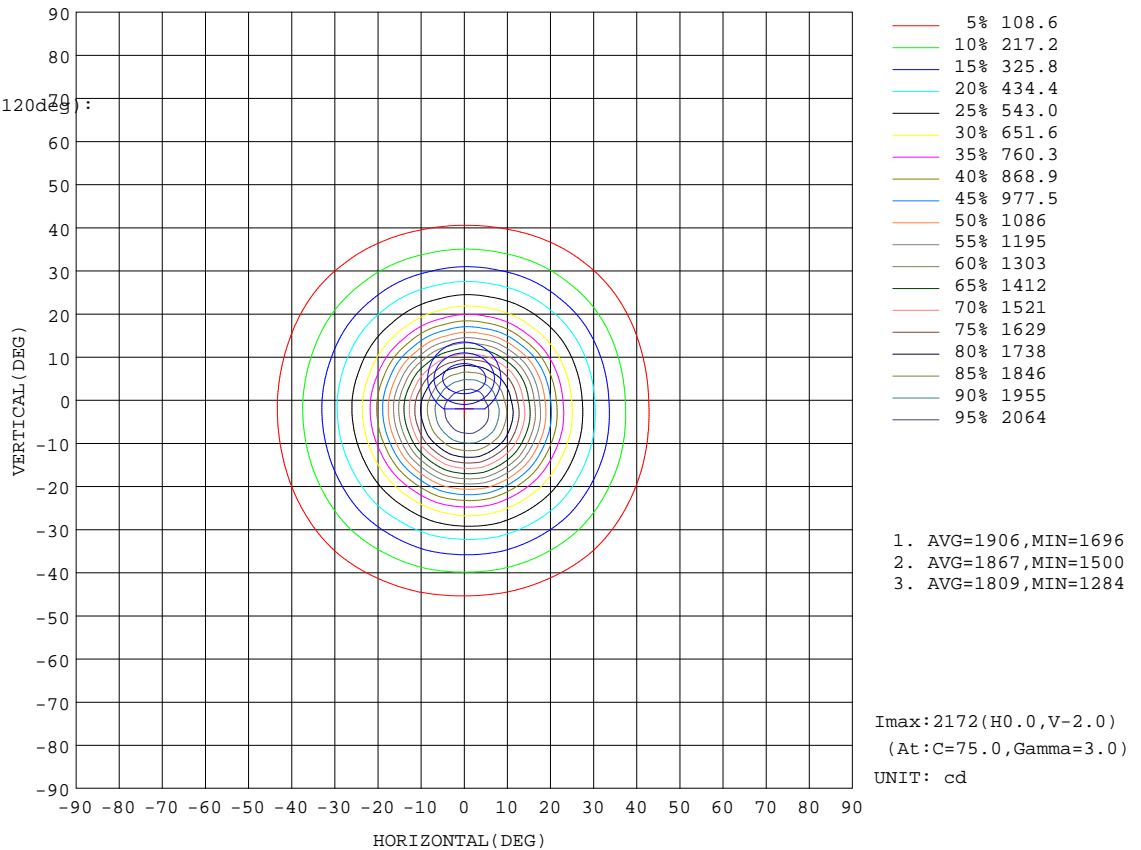
%lamp = 93.9%

Conical surface Flux(120deg):

1118.4 lm

%lum = 98.1%

%lamp = 98.1%



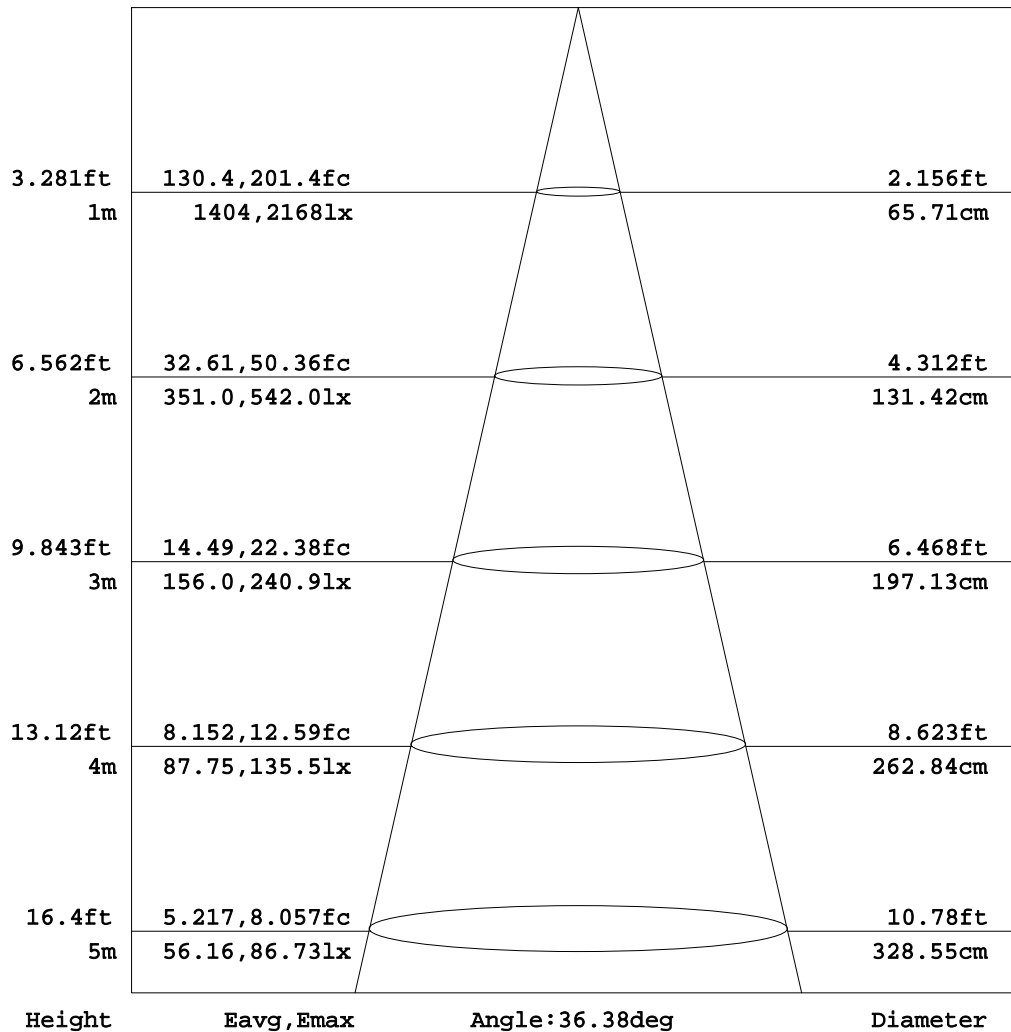
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AAI Figure

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MFR.:		

Flux out:522.9 lm



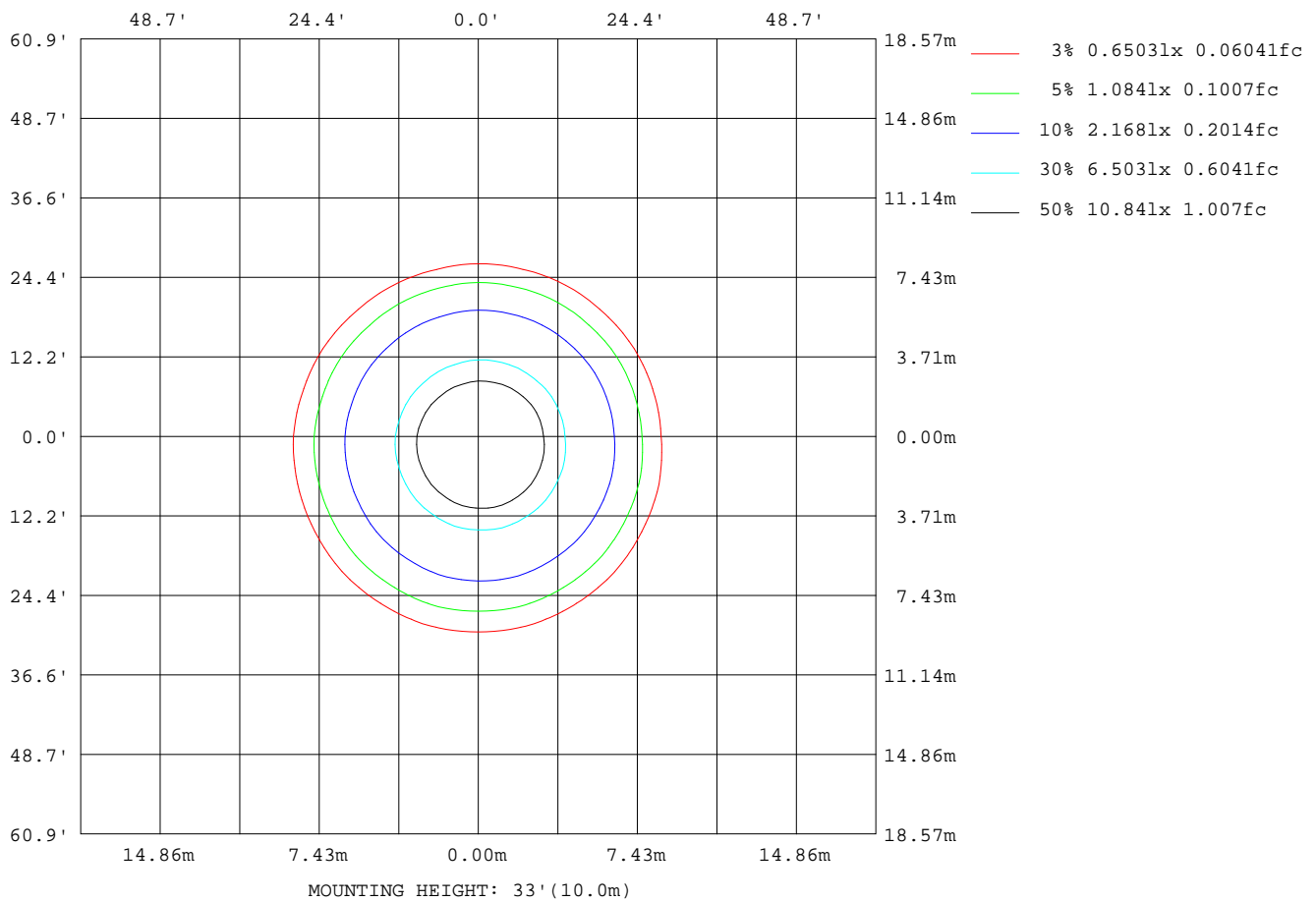
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

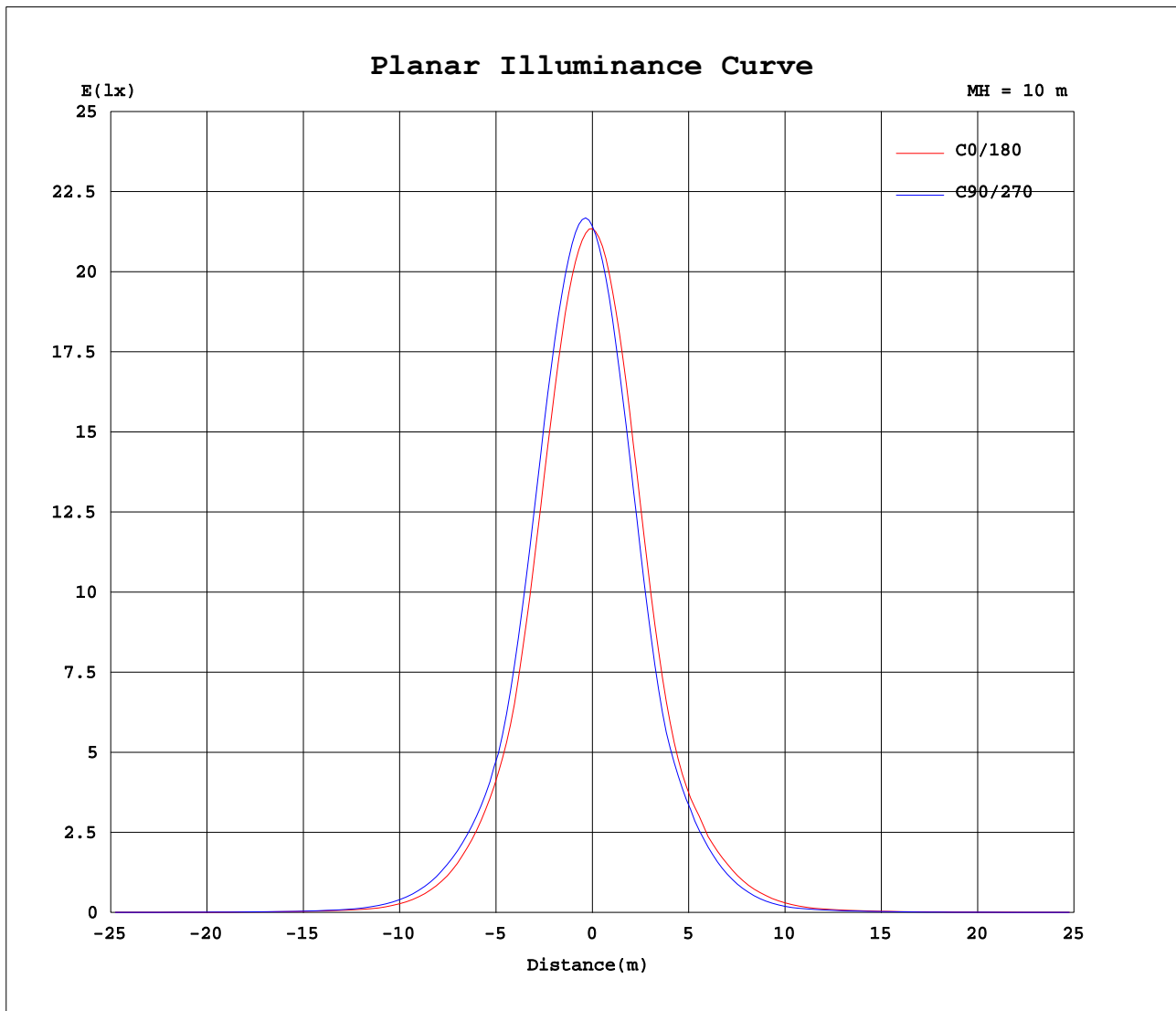
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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UNIT: cd

[illegible]

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NAME: BO S-15W-940-40D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ82mm*H77mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
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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]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	2134	2135	2138	2136	2139	2138	2142	2141	2145	2145
3.0	2107	2128	2145	2160	2167	2172	2172	2166	2154	2143
6.0	2018	2056	2081	2109	2120	2129	2122	2112	2085	2064
9.0	1864	1923	1959	1994	2006	2017	2002	1988	1949	1919
12.0	1653	1720	1767	1818	1832	1844	1824	1805	1757	1721
15.0	1406	1482	1528	1580	1596	1613	1588	1567	1509	1467
18.0	1144	1216	1261	1316	1331	1350	1321	1299	1239	1196
21.0	896.8	958.9	995.7	1045	1061	1078	1054	1033	977.0	939.3
24.0	696.3	738.8	764.6	801.4	815.6	831.4	813.0	798.1	752.5	720.9
27.0	556.9	588.1	607.3	626.3	639.6	647.8	644.2	620.7	589.9	568.6
30.0	442.5	471.0	488.4	510.1	516.3	522.8	513.3	504.4	482.2	467.0
33.0	342.2	366.1	380.8	401.7	409.0	417.9	412.2	405.5	386.5	373.3
36.0	251.0	273.8	287.3	307.0	314.7	324.2	321.3	318.5	304.0	293.4
39.0	178.8	196.4	207.3	222.8	230.3	240.1	239.1	238.6	226.6	218.4
42.0	120.9	135.1	143.8	155.9	162.3	169.9	169.3	169.2	161.0	154.9
45.0	77.87	86.91	94.24	103.5	108.0	114.2	114.4	115.2	109.9	105.6
48.0	48.77	54.59	59.32	65.59	68.49	72.71	73.16	74.32	70.99	68.48
51.0	35.91	38.61	40.38	43.25	44.45	45.74	46.18	46.81	45.47	44.84
54.0	27.68	29.61	31.15	32.67	32.88	33.79	33.78	34.31	33.82	33.79
57.0	21.85	23.14	24.14	25.14	24.78	25.24	25.11	25.48	25.29	25.84
60.0	17.46	18.38	18.94	19.39	19.10	19.25	19.14	19.41	19.30	19.77
63.0	14.47	15.12	15.27	15.23	14.96	14.80	14.69	14.82	15.01	15.42
66.0	12.36	12.81	12.67	12.49	12.08	12.00	11.85	12.00	12.03	12.51
69.0	10.95	11.14	10.82	10.56	10.17	10.06	9.987	10.07	10.15	10.54
72.0	9.856	9.800	9.310	9.006	8.678	8.527	8.361	8.516	8.630	8.971
75.0	8.859	8.520	7.873	7.495	7.085	6.752	6.515	6.713	7.028	7.425
78.0	7.675	7.064	6.168	5.383	4.792	4.581	4.389	4.544	4.711	5.257
81.0	5.390	4.998	3.806	3.060	2.855	2.841	2.729	2.762	2.726	3.011
84.0	3.532	2.792	1.549	0.7741	0.9542	1.234	1.382	1.229	0.8638	0.6196
87.0	1.035	0.5303	0.7362	1.458	2.144	2.696	2.992	2.831	2.348	1.523
90.0	0.0743	0.0743	0.0722	0.0700	0.7150	0.9052	0.9905	0.8877	0.6581	0.0940
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2148	2149	2134	2135	2138	2139	2138	2142	2141	2141
3.0	2126	2114	2088	2070	2060	2044	2040	2033	2041	2044
6.0	2029	2007	1970	1934	1914	1887	1879	1866	1881	1889
9.0	1872	1839	1798	1744	1708	1667	1660	1645	1664	1675
12.0	1662	1617	1565	1502	1466	1418	1410	1396	1415	1431
15.0	1399	1356	1308	1238	1200	1152	1142	1125	1150	1165
18.0	1132	1090	1045	981.7	948.1	905.6	895.9	879.3	898.5	912.9
21.0	881.6	846.4	810.3	754.8	722.6	686.6	683.2	676.2	691.9	702.2
24.0	678.2	653.0	629.1	593.1	576.4	555.1	553.3	549.2	561.2	566.6
27.0	540.5	521.0	505.5	487.7	478.2	463.5	456.1	448.6	455.3	460.8
30.0	445.1	430.8	414.9	386.3	374.1	358.4	353.4	348.1	355.1	358.3
33.0	351.4	337.6	325.0	307.5	293.9	276.6	270.5	264.4	268.3	270.1
36.0	276.0	263.1	250.9	231.5	218.9	203.3	197.9	192.0	195.1	195.6
39.0	202.8	192.4	182.8	167.2	156.9	144.3	138.7	133.2	135.4	136.3
42.0	143.8	136.5	129.4	116.1	107.1	96.87	91.42	87.51	87.60	89.21
45.0	97.47	91.88	86.46	76.85	69.42	62.57	58.16	54.84	55.28	55.99
48.0	63.89	59.09	55.41	48.61	44.70	41.23	39.79	38.33	38.48	38.76
51.0	42.40	40.81	39.21	35.83	33.80	31.65	30.53	29.31	29.44	29.50
54.0	32.35	31.10	29.69	27.57	26.16	24.41	23.33	22.57	22.59	22.67
57.0	24.76	23.82	23.03	21.62	20.51	19.00	18.24	17.54	17.48	17.69
60.0	19.31	18.81	18.27	17.18	16.29	15.09	14.47	13.77	13.84	13.94
63.0	15.37	15.15	14.75	13.99	13.25	12.43	11.88	11.47	11.48	11.62
66.0	12.62	12.70	12.39	11.90	11.30	10.66	10.21	9.880	9.919	10.03
69.0	10.77	11.00	10.86	10.48	9.867	9.233	8.820	8.524	8.500	8.625
72.0	9.268	9.645	9.699	9.248	8.504	7.854	7.426	6.909	6.824	7.046
75.0	7.781	8.338	8.620	7.945	7.043	6.028	5.204	4.755	4.716	4.880
78.0	6.044	6.845	7.455	6.352	5.010	3.765	3.254	2.773	2.704	2.913
81.0	3.707	4.849	5.447	4.204	2.783	1.179	0.4446	0.2477	0.2891	0.3183
84.0	1.377	1.385	3.570	0.9392	0.2124	0.1183	0.1027	0.1334	0.1137	0.1313
87.0	0.7313	0.3523	1.400	0.1184	0.0612	0.0919	0.0764	0.1030	0.0872	0.1073
90.0	0.0743	0.0853	0.0525	0.0743	0.0568	0.0547	0.0525	0.0525	0.0525	0.0547
G/C	300.0	315.0	330.0	345.0						
0.0	2145	2145	2148	2149						
3.0	2063	2074	2094	2107						
6.0	1918	1941	1979	2005						
9.0	1714	1743	1797	1837						
12.0	1480	1513	1575	1618						
15.0	1216	1254	1321	1369						
18.0	960.6	996.2	1061	1106						
21.0	733.6	762.3	815.5	856.6						

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	587.6	608.2	641.7	668.7
27.0	479.4	495.5	520.3	536.4
30.0	373.6	385.7	408.1	424.8
33.0	280.9	291.4	311.5	327.6
36.0	204.9	212.0	226.9	238.5
39.0	143.1	148.5	159.7	168.2
42.0	94.01	98.43	106.3	113.1
45.0	59.35	62.85	67.88	72.26
48.0	40.17	41.18	43.69	45.95
51.0	30.64	31.49	33.09	34.39
54.0	23.47	24.34	25.68	26.71
57.0	18.34	18.94	20.17	21.07
60.0	14.69	15.27	16.14	16.80
63.0	12.13	12.70	13.40	13.96
66.0	10.44	10.93	11.54	12.01
69.0	9.010	9.517	10.13	10.66
72.0	7.619	8.125	8.817	9.471
75.0	5.455	6.391	7.371	8.277
78.0	3.441	4.138	5.327	6.704
81.0	0.6501	1.702	3.072	4.385
84.0	0.0984	0.1293	0.4828	2.291
87.0	0.0742	0.0963	0.0634	0.1709
90.0	0.0525	0.0568	0.0568	0.0743

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: