
LED Tracklight BO Series LE-BO
S-15W-940-22D



Light Output Ratio:	100.0%	
Luminaire Power:	14.73 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

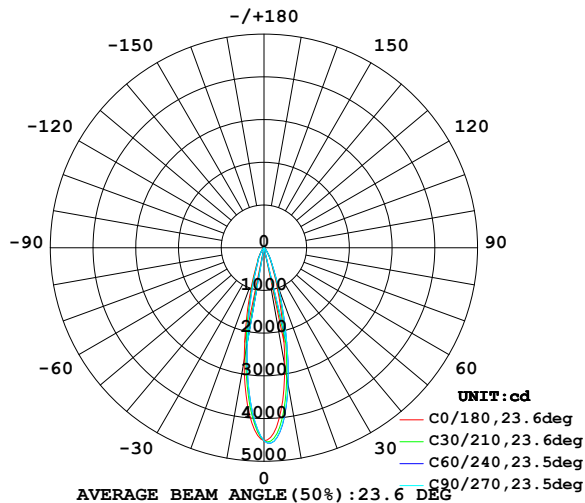
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

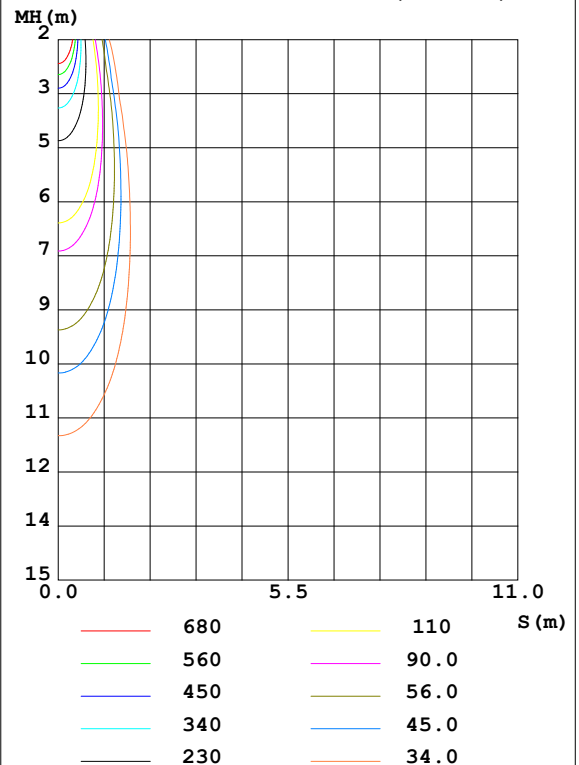
Test:U:220.7V I:0.0728A P:14.73W PF:0.9165 Lamp Flux:1123.21x1 lm		
NAME: BO S-15W-940-22D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 82mm*H77mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.28 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	4581	S/MH (C0/180)	0.39
NOMINAL POWER (W)	15.0	LOR (%)	100.0	S/MH (C90/270)	0.35
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1123.2	η UP, DN (C0-180)	0.0, 55.8
NOMINAL FLUX (lm)	1123.21	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 44.2
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)



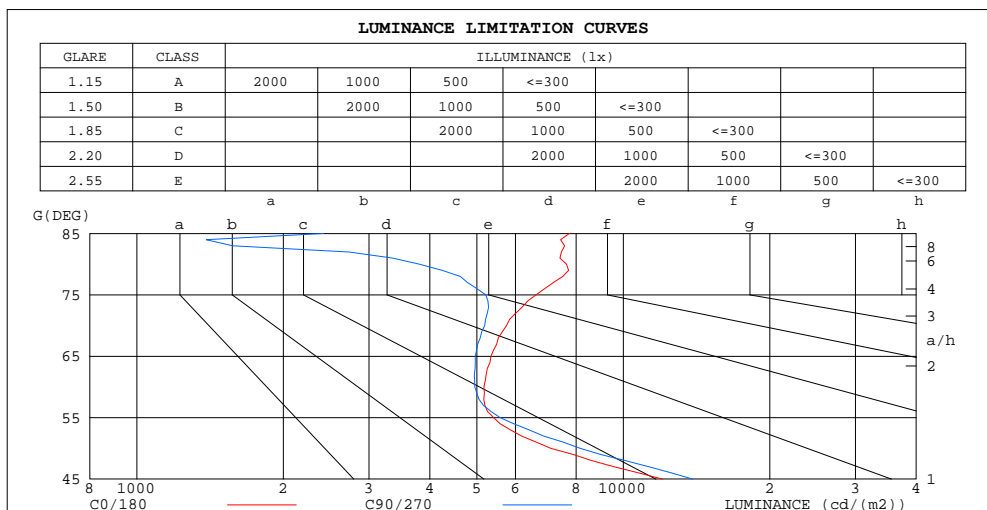
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γ Range: 0 - 90DEG
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

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	2810	3213	3237	2989	2687	2319	2284	2483	0- 10	339.4	339.4	30.2,30.2
20	801.5	980.9	984.3	851.3	713.7	578.6	564.4	648.3	10- 20	426.6	765.9	68.2,68.2
30	255.1	294.7	288.1	270.8	237.7	198.9	199.6	220.2	20- 30	194.9	960.9	85.5,85.5
40	81.78	92.49	94.32	87.39	78.54	69.31	67.64	72.38	30- 40	91.27	1052	93.7,93.7
50	24.09	27.90	27.69	26.73	24.02	21.02	20.73	21.66	40- 50	35.88	1088	96.9,96.9
60	13.64	13.81	13.06	13.37	13.14	12.35	11.94	12.65	50- 60	15.02	1103	98.2,98.2
70	10.38	10.04	9.366	9.398	9.745	8.713	8.313	9.081	60- 70	11.02	1114	99.2,99.2
80	7.005	4.658	3.491	4.228	6.492	3.082	1.733	3.426	70- 80	7.563	1122	99.9,99.9
90	0.0700	0.0656	0.8330	0.0896	0.0525	0.0547	0.0525	0.0525	80- 90	1.597	1123	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		



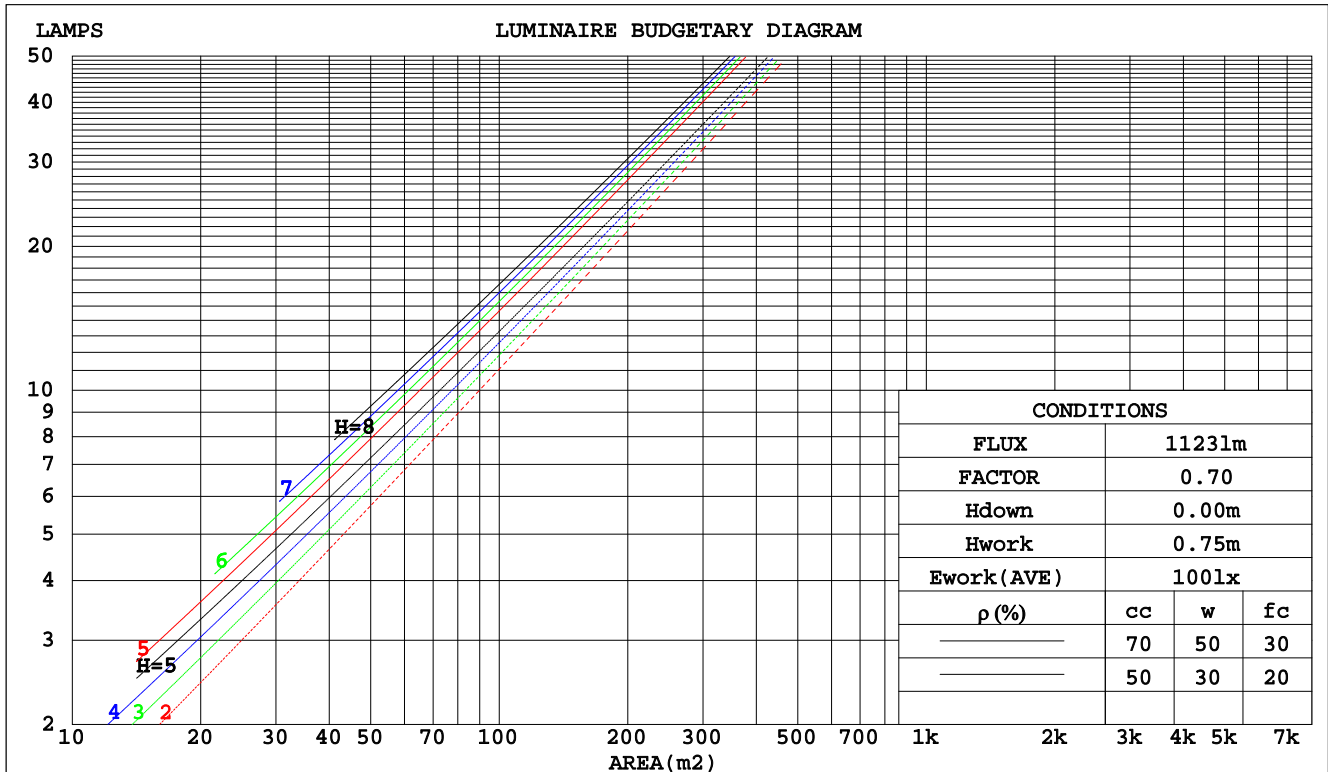
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0728A P:14.73W PF:0.9165 Lamp Flux:1123.21x1 lm		
NAME: BO S-15W-940-22D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	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	.90	.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	.81	.79	.84	.81	.78	.83	.80	.78	.76
7.0	.84	.79	.76	.84	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.75	.74
8.0	.81	.76	.73	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.71
9.0	.78	.74	.70	.78	.73	.70	.77	.73	.70	.76	.73	.70	.75	.72	.70	.69
10.0	.76	.71	.68	.75	.71	.68	.75	.71	.68	.74	.70	.68	.73	.70	.67	.66



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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	.156	.089	.028	.149	.085	.027	.137	.078	.025	.125	.072	.023	.115	.066	.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	.020	.124	.065	.019	.116	.062	.018	.109	.059	.018	.103	.056	.017		
5.0	.120	.061	.018	.117	.060	.017	.110	.058	.017	.105	.055	.016	.099	.053	.016		
6.0	.114	.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	.092	.048	.014		
8.0	.103	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013		
9.0	.098	.047	.013	.096	.047	.013	.092	.045	.013	.088	.044	.013	.085	.043	.012		
10.0	.093	.045	.012	.092	.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	.014	.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	.073	.045	.026	.050	.032	.019	.029	.019	.011	.010	.006	.004	

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 Humidity:52%
 Test Distance:5.850m [K=1.0000]
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UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0728A P:14.73W PF:0.9165 Lamp Flux:1123.21x1 lm										
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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	14.7	15.4	14.9	15.6	15.8	15.1	15.8	15.3	16.0	16.2
3H	15.3	16.0	15.5	16.2	16.3	15.5	16.2	15.7	16.4	16.6
4H	15.7	16.4	16.0	16.6	16.8	15.8	16.4	16.0	16.6	16.9
6H	16.3	16.9	16.5	17.1	17.4	15.9	16.6	16.2	16.8	17.0
8H	16.5	17.1	16.8	17.3	17.6	15.9	16.5	16.2	16.8	17.0
12H	16.6	17.2	16.9	17.5	17.8	15.9	16.5	16.2	16.7	17.0
4H 2H	14.8	15.4	15.0	15.6	15.8	15.1	15.8	15.4	16.0	16.2
3H	15.6	16.2	15.9	16.4	16.7	15.7	16.3	16.0	16.6	16.9
4H	16.2	16.7	16.5	17.0	17.3	16.1	16.7	16.5	17.0	17.3
6H	16.9	17.4	17.3	17.7	18.1	16.4	16.9	16.8	17.2	17.6
8H	17.2	17.7	17.6	18.0	18.4	16.4	16.9	16.8	17.2	17.6
12H	17.5	17.9	17.9	18.2	18.6	16.4	16.8	16.8	17.2	17.5
8H 4H	16.4	16.8	16.7	17.2	17.5	16.3	16.8	16.7	17.1	17.5
6H	17.2	17.6	17.7	18.0	18.4	16.7	17.0	17.1	17.4	17.8
8H	17.6	17.9	18.0	18.3	18.8	16.7	17.0	17.1	17.4	17.9
12H	17.9	18.2	18.3	18.6	19.1	16.6	16.9	17.1	17.4	17.8
12H 4H	16.3	16.7	16.7	17.1	17.5	16.3	16.7	16.7	17.1	17.5
6H	17.2	17.6	17.7	18.0	18.4	16.7	17.0	17.1	17.4	17.9
8H	17.6	17.9	18.1	18.3	18.8	16.7	17.0	17.2	17.4	17.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.0					+ 1.3 / - 1.6				
1.5H	+ 1.7 / - 1.0					+ 2.6 / - 1.6				
2.0H	+ 1.2 / - 0.5					+ 2.1 / - 0.9				

CIE Pub.117 Corrected 1123 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.4)

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 Humidity:52%
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 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0728A P:14.73W PF:0.9165 Lamp Flux:1123.21x1 lm		
NAME: BO S-15W-940-22D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	78	87	81	78	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	95	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	102	105	103	101	95
3.00	112	108	106	110	107	104	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	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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MFR.:		

Conical surface Flux(90deg):

1074.7 lm

%lum = 95.7%

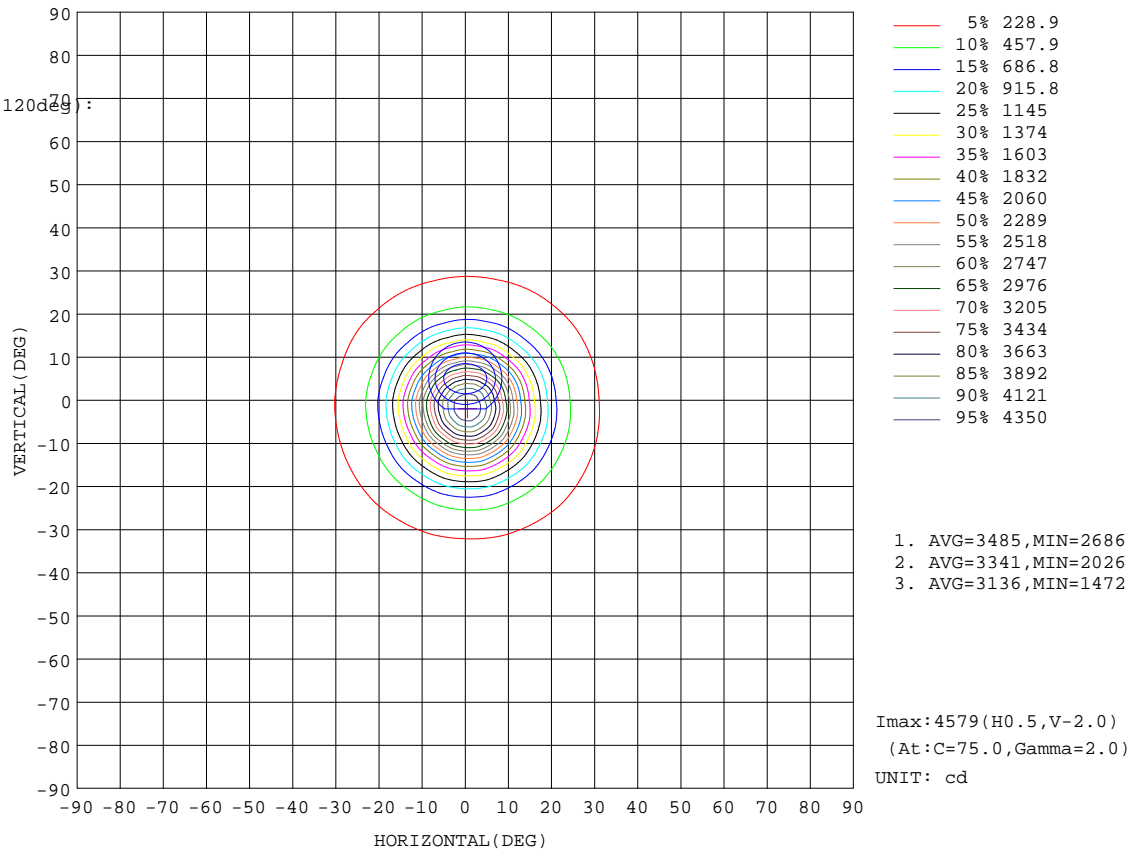
%lamp = 95.7%

Conical surface Flux(120deg):

1103 lm

%lum = 98.2%

%lamp = 98.2%

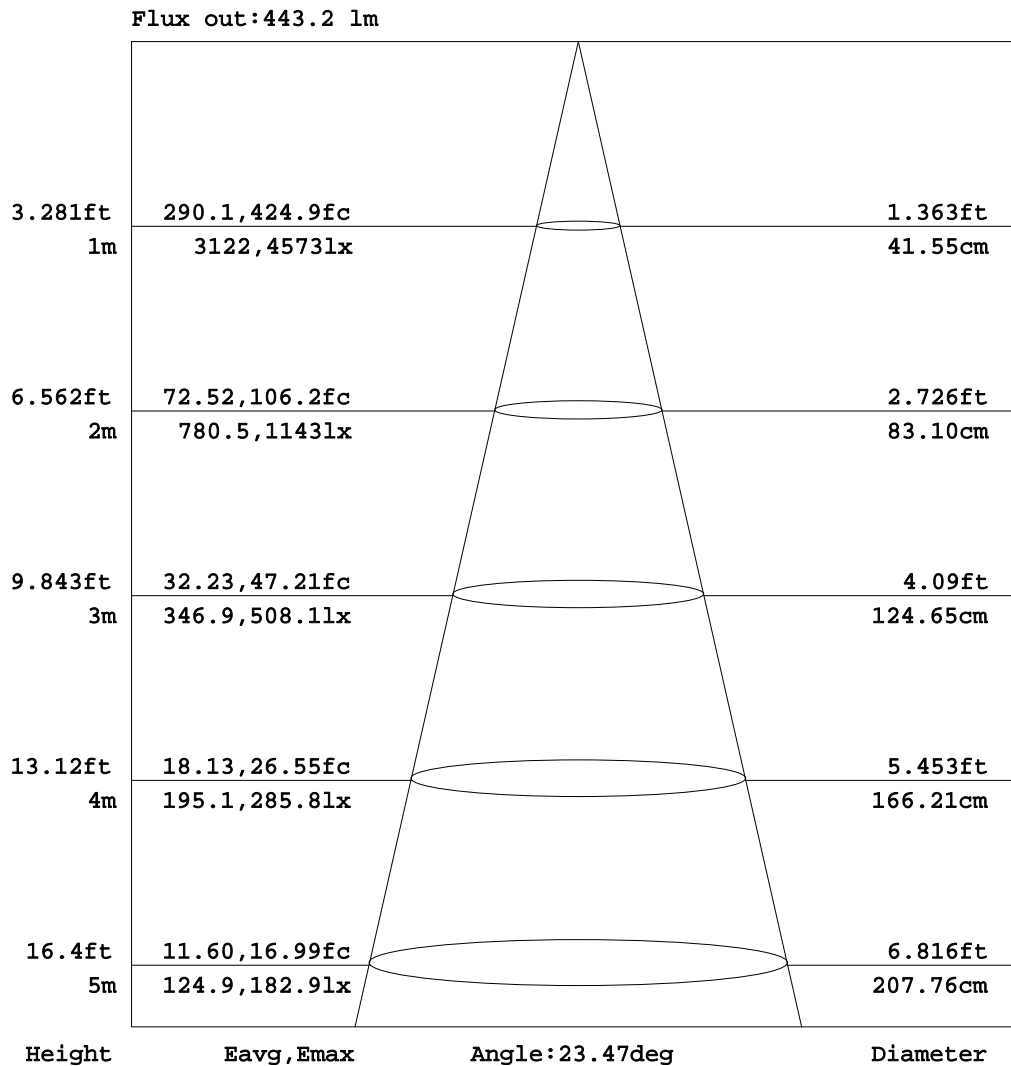


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AAI Figure

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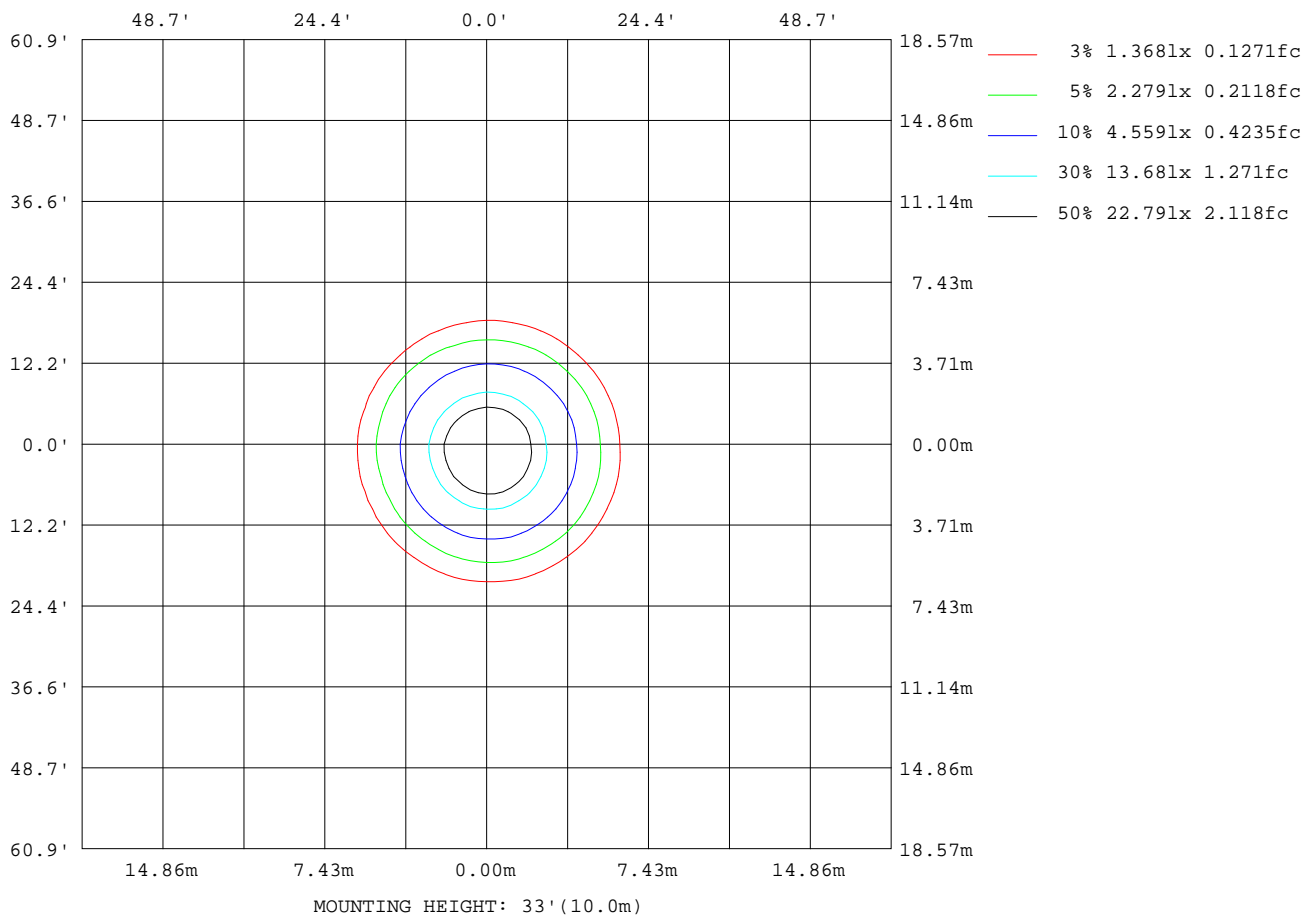
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

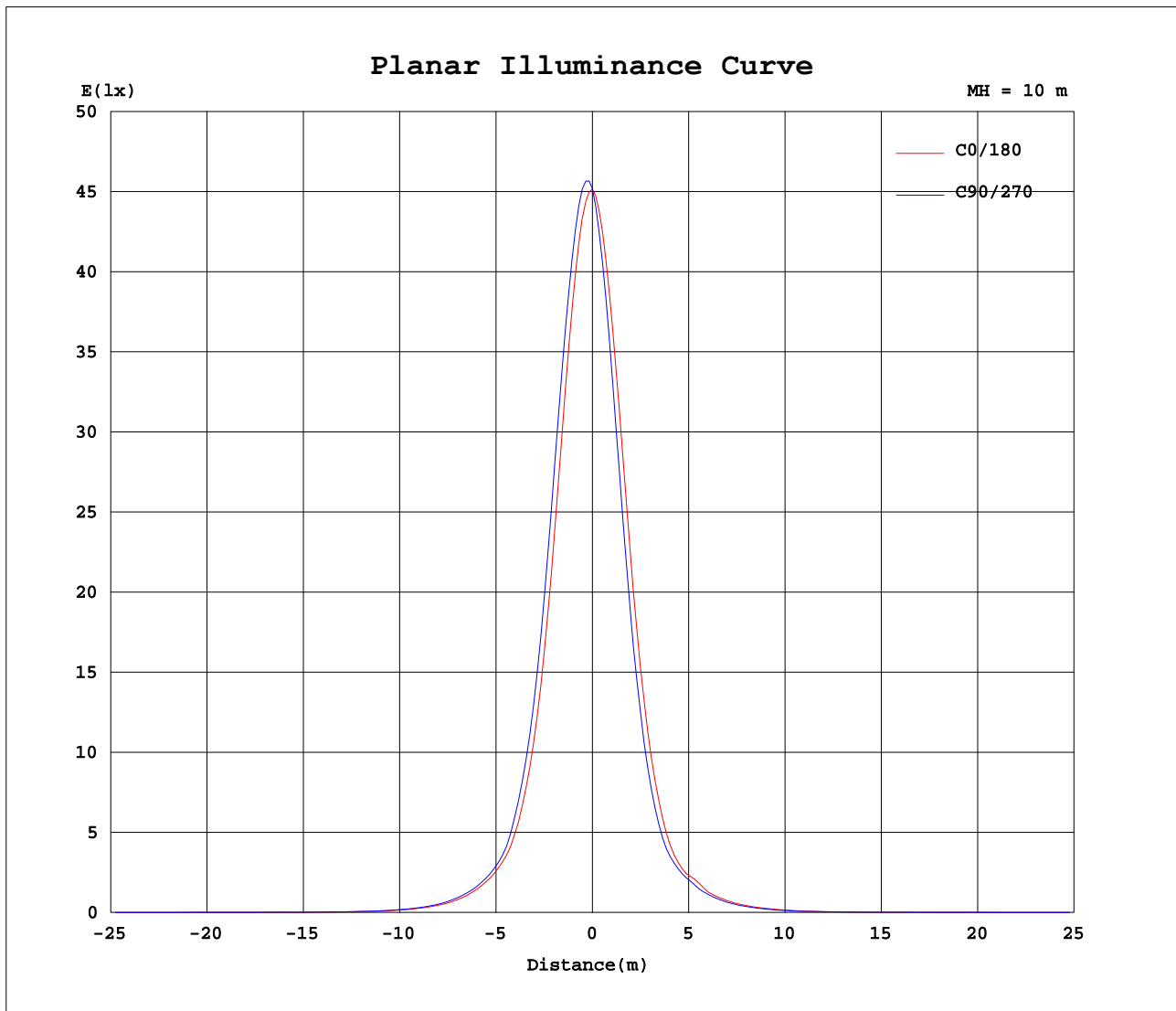
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MFR.: NEKO LIGHTING AG		



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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: BO S-15W-940-22D	TYPE:Downlight	SERIAL No.:
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Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
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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	4516	4513	4518	4510	4518	4508	4519	4513	4522	4520
3.0	4349	4420	4466	4520	4538	4548	4533	4513	4458	4418
6.0	3829	3963	4038	4133	4162	4194	4147	4114	4015	3954
9.0	3082	3257	3347	3478	3506	3555	3497	3462	3334	3258
12.0	2268	2435	2531	2671	2705	2758	2695	2648	2513	2435
15.0	1567	1701	1777	1887	1914	1963	1907	1866	1753	1692
18.0	1054	1150	1206	1284	1300	1334	1292	1263	1178	1131
21.0	692.4	761.0	801.9	854.4	862.9	883.8	855.6	834.2	772.9	735.2
24.0	471.4	505.8	524.6	551.0	565.9	563.6	543.5	528.0	487.6	466.6
27.0	344.9	368.3	378.5	392.0	394.9	402.1	388.9	376.1	355.2	343.0
30.0	255.1	273.4	283.1	294.7	294.8	297.7	288.1	284.5	275.0	270.8
33.0	184.0	196.6	203.1	211.7	212.8	215.3	209.2	205.3	194.8	188.6
36.0	130.4	139.7	142.8	149.2	150.7	154.0	150.3	148.0	140.7	137.5
39.0	92.06	97.51	100.7	104.5	105.8	108.1	106.4	104.8	100.6	97.95
42.0	64.96	68.58	70.88	73.39	74.24	75.74	74.57	73.93	71.61	70.03
45.0	44.90	48.00	49.51	51.65	51.82	53.00	51.83	51.95	50.48	49.83
48.0	30.39	32.34	33.68	35.51	35.75	36.46	35.62	35.68	34.53	34.03
51.0	22.00	23.12	23.60	24.61	24.89	25.50	25.00	24.93	23.87	23.54
54.0	17.32	17.95	18.20	18.64	18.55	18.56	18.47	18.47	18.32	18.32
57.0	14.92	15.25	15.31	15.43	15.06	14.92	14.82	14.83	14.88	15.01
60.0	13.64	13.89	13.92	13.81	13.41	13.16	13.06	13.04	13.12	13.37
63.0	12.59	12.79	12.81	12.65	12.23	12.03	11.88	11.86	11.84	12.12
66.0	11.61	11.81	11.74	11.55	11.15	10.94	10.72	10.68	10.67	10.89
69.0	10.67	10.83	10.63	10.40	10.06	9.821	9.672	9.572	9.561	9.755
72.0	9.794	9.830	9.514	9.276	8.963	8.775	8.565	8.546	8.501	8.624
75.0	9.035	8.840	8.388	8.115	7.761	7.426	7.126	7.216	7.339	7.479
78.0	8.235	7.771	7.027	6.356	5.601	5.302	5.075	5.154	5.274	5.692
81.0	6.118	5.850	4.649	3.752	3.266	3.010	2.771	2.889	3.058	3.426
84.0	4.100	3.423	1.977	0.7751	0.5685	0.6886	0.7660	0.6706	0.4953	0.5884
87.0	1.374	0.6757	0.4727	1.160	1.774	2.184	2.508	2.199	1.688	1.062
90.0	0.0700	0.0678	0.0678	0.0656	0.5422	0.7696	0.8330	0.7172	0.4307	0.0896
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4528	4531	4513	4518	4510	4518	4508	4519	4513	4520
3.0	4348	4308	4268	4187	4150	4088	4080	4045	4076	4086
6.0	3839	3768	3709	3570	3505	3402	3380	3329	3371	3385
9.0	3108	3028	2955	2795	2714	2589	2560	2505	2550	2571
12.0	2288	2214	2153	2006	1931	1820	1794	1744	1783	1800
15.0	1575	1526	1481	1356	1297	1212	1190	1153	1185	1197
18.0	1045	999.0	965.8	882.9	837.7	775.8	762.7	740.6	765.0	777.3
21.0	672.4	635.4	611.5	565.7	528.0	496.1	489.5	478.2	491.8	498.1
24.0	437.1	420.8	410.8	382.3	369.3	353.5	352.6	349.2	359.9	365.1
27.0	322.7	316.5	318.0	310.5	307.1	295.2	286.7	275.9	277.3	278.8
30.0	254.1	244.4	237.7	217.0	208.0	198.9	197.7	194.8	199.6	202.3
33.0	177.3	170.7	167.0	157.4	153.0	146.3	145.7	143.3	146.5	147.5
36.0	128.9	123.8	121.2	114.4	111.1	106.6	105.5	104.0	105.6	106.4
39.0	92.74	89.46	87.65	83.01	80.54	77.27	76.33	74.89	75.91	76.20
42.0	66.88	64.43	63.01	59.39	57.74	55.03	54.22	52.66	53.45	53.72
45.0	47.36	45.71	44.59	41.50	40.10	37.91	37.20	35.92	36.51	36.70
48.0	32.18	31.05	30.22	28.13	27.08	25.73	25.31	24.67	25.01	25.12
51.0	22.76	22.35	21.91	20.65	20.01	19.25	19.08	18.85	19.01	18.99
54.0	17.66	17.42	17.15	16.46	16.03	15.52	15.27	15.00	15.21	15.09
57.0	14.75	14.69	14.57	14.13	13.84	13.56	13.40	13.20	13.30	13.28
60.0	13.34	13.23	13.14	12.84	12.63	12.35	12.05	11.88	11.94	11.98
63.0	12.17	12.12	12.01	11.81	11.56	11.20	10.90	10.75	10.80	10.88
66.0	10.99	11.04	10.95	10.80	10.54	10.09	9.855	9.669	9.715	9.772
69.0	9.855	10.03	9.992	9.824	9.476	9.042	8.842	8.596	8.672	8.738
72.0	8.734	9.038	9.119	8.869	8.433	8.004	7.776	7.467	7.434	7.646
75.0	7.572	7.976	8.308	7.850	7.325	6.702	5.906	5.490	5.498	5.665
78.0	6.224	6.814	7.465	6.674	5.664	4.582	3.950	3.502	3.442	3.631
81.0	4.074	5.049	5.721	4.678	3.404	2.154	1.084	0.6645	0.6784	0.7807
84.0	1.668	1.650	3.809	1.232	0.6122	0.1294	0.0962	0.1226	0.1050	0.1270
87.0	0.4415	0.3544	1.500	0.1776	0.0633	0.0919	0.0699	0.0985	0.0764	0.1007
90.0	0.0678	0.0722	0.0525	0.0722	0.0547	0.0547	0.0525	0.0525	0.0525	0.0525
G/C	300.0	315.0	330.0	345.0						
0.0	4522	4520	4528	4531						
3.0	4154	4195	4278	4331						
6.0	3490	3559	3698	3783						
9.0	2679	2756	2914	3015						
12.0	1899	1967	2108	2209						
15.0	1271	1321	1446	1511						
18.0	831.3	870.5	952.3	1011						
21.0	531.3	569.0	616.8	659.7						

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	380.5	394.5	426.7	451.8
27.0	289.7	300.2	318.8	332.1
30.0	212.1	220.2	235.4	246.3
33.0	153.7	158.5	169.5	177.8
36.0	110.0	113.4	120.5	126.5
39.0	78.63	81.11	85.78	89.66
42.0	55.73	57.27	60.69	63.48
45.0	38.47	39.48	42.07	43.77
48.0	26.32	27.08	28.65	29.69
51.0	19.40	19.69	20.59	21.43
54.0	15.55	15.91	16.44	16.95
57.0	13.59	13.91	14.31	14.68
60.0	12.24	12.65	13.10	13.38
63.0	11.11	11.54	12.04	12.38
66.0	10.06	10.45	11.04	11.41
69.0	9.074	9.420	9.964	10.44
72.0	8.067	8.356	8.870	9.446
75.0	6.262	7.095	7.736	8.451
78.0	4.182	4.973	6.105	7.267
81.0	1.403	2.545	3.799	5.107
84.0	0.1006	0.1418	0.9896	2.808
87.0	0.0742	0.0984	0.0678	0.3067
90.0	0.0503	0.0525	0.0481	0.0722

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: