
LED Downlight FUSION Series LE-
FS6-13W-930-15D



Light Output Ratio:	100.0%	
Luminaire Power:	15.74 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: 2017-05-17

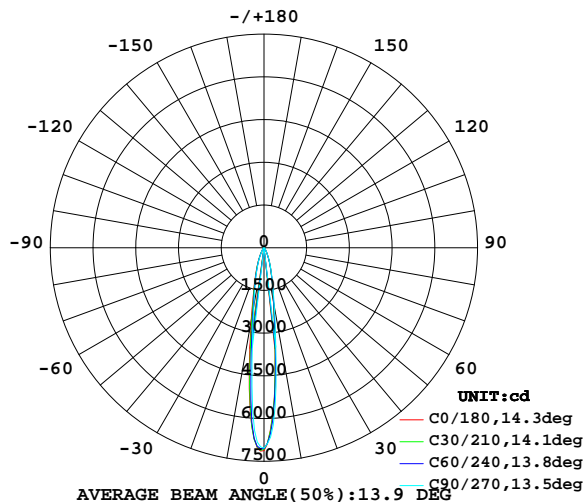
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

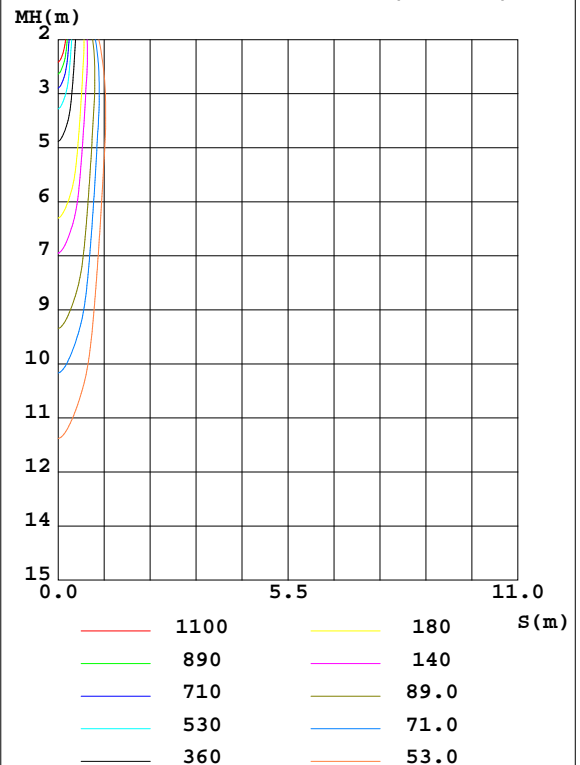
Test:U:220.7V I:0.0771A P:15.74W PF:0.9249 Lamp Flux:1036.75x1 lm		
NAME: FS6-13W-930-15D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.87 lm/W			
MODEL	CREE-3000K	Imax(cd)	7141	S/MH(C0/180)	0.28
NOMINAL POWER(W)	15.0	LOR(%)	100.0	S/MH(C90/270)	0.23
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1036.8	η UP,DN(C0-180)	0.0,49.4
NOMINAL FLUX(lm)	1036.75	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.6
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)



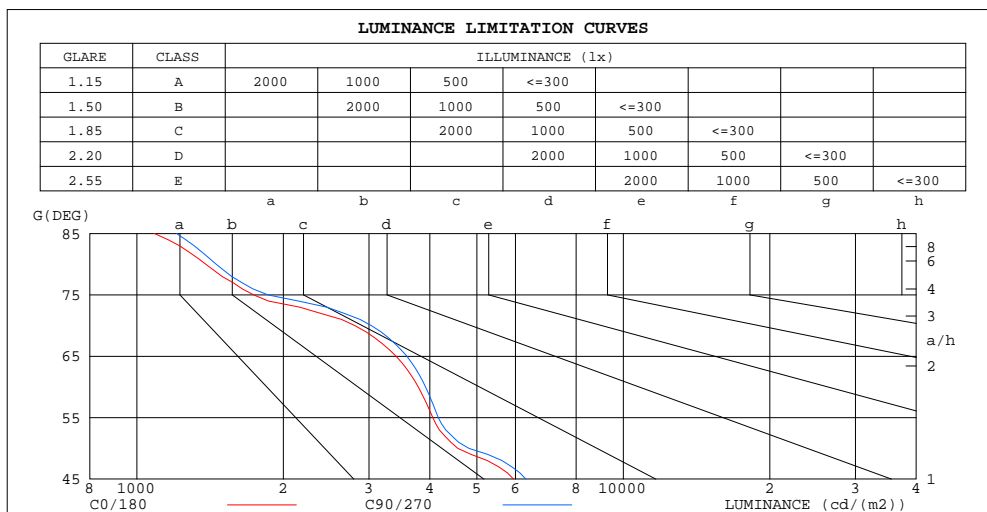
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γ Range: 0 - 90DEG
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
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 Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1932	2003	2087	2343	2595	2272	2067	1954	0- 10	372.8	372.8	36,36
20	604.2	602.7	623.1	666.1	729.1	684.4	653.1	613.3	10- 20	323.7	696.5	67.2,67.2
30	179.7	182.5	188.0	201.0	219.7	206.9	194.5	179.7	20- 30	168.5	865.0	83.4,83.4
40	70.10	71.97	75.22	77.47	79.37	73.51	69.53	67.61	30- 40	71.46	936.5	90.3,90.3
50	38.31	39.05	40.40	43.26	44.37	41.01	38.87	37.97	40- 50	43.53	980.0	94.5,94.5
60	24.71	25.16	25.59	26.13	26.58	25.73	25.03	24.32	50- 60	28.15	1008	97.2,97.2
70	12.53	13.04	13.55	14.21	14.59	13.82	13.23	12.48	60- 70	19.29	1027	99.1,99.1
80	3.138	3.226	3.298	3.499	3.679	3.500	3.362	3.174	70- 80	7.685	1035	99.8,99.8
90	0.0678	0.0656	0.0700	0.0809	0.0765	0.1006	0.0853	0.1028	80- 90	1.622	1037	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		



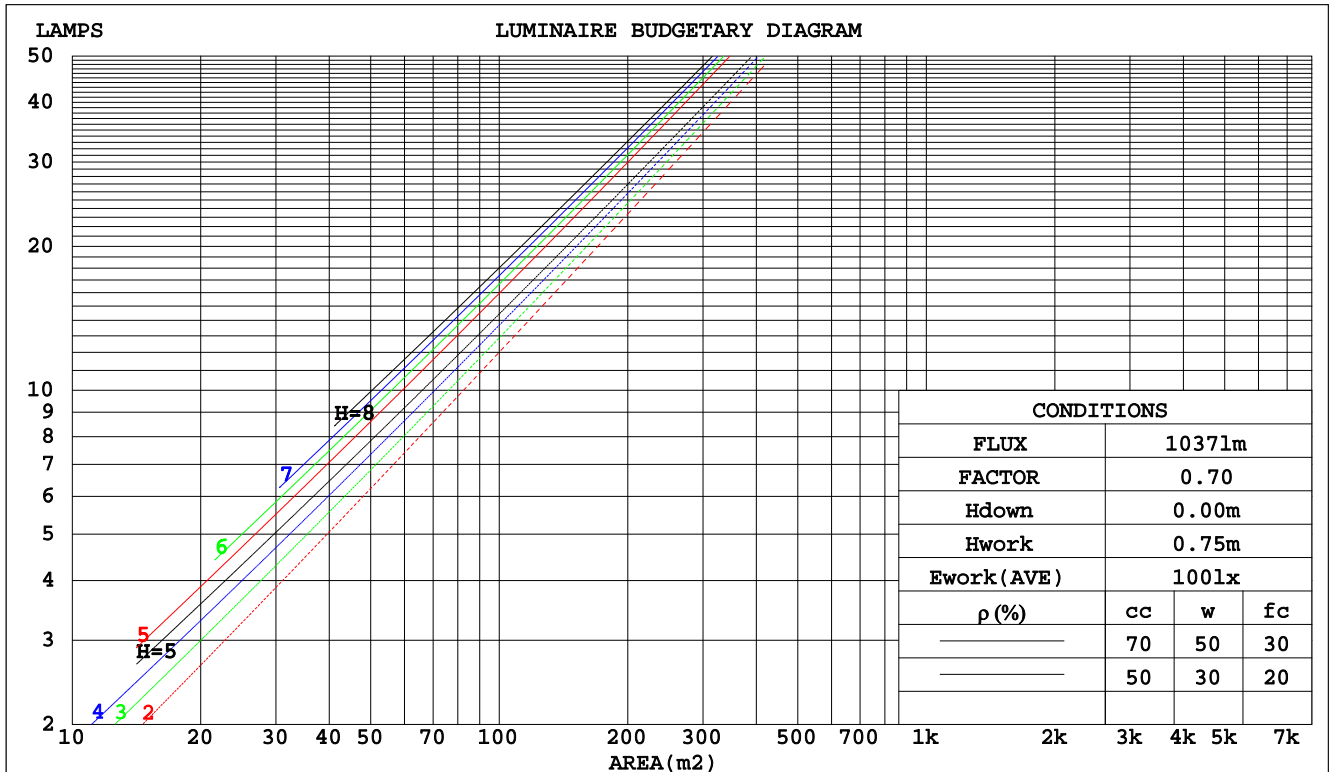
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0771A P:15.74W PF:0.9249 Lamp Flux:1036.75x1 lm		
NAME: FS6-13W-930-15D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.:		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	1.05	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.93	.92	.90
3.0	.00	.96	.92	.99	.95	.92	.96	.93	.90	.94	.91	.89	.92	.89	.87	.86
4.0	.95	.91	.87	.94	.90	.87	.92	.88	.86	.90	.87	.85	.88	.86	.84	.82
5.0	.91	.86	.83	.90	.86	.82	.88	.85	.82	.87	.84	.81	.85	.83	.80	.79
6.0	.87	.83	.79	.87	.82	.79	.85	.81	.78	.84	.80	.78	.83	.80	.77	.76
7.0	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.75	.73
8.0	.81	.76	.73	.81	.76	.73	.80	.76	.73	.79	.75	.72	.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	.72	.69	.76	.71	.69	.75	.71	.68	.74	.71	.68	.74	.70	.68	.67



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 Humidity:52%
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WEC AND CCEC

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SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.:		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.158	.090	.029	.152	.086	.027	.139	.080	.025	.128	.074	.024	.117	.068	.022	
2.0	.148	.081	.025	.143	.079	.024	.132	.074	.023	.123	.069	.022	.114	.064	.020	
3.0	.138	.074	.022	.134	.072	.022	.125	.068	.021	.117	.064	.020	.109	.061	.019	
4.0	.129	.067	.020	.125	.066	.019	.118	.063	.019	.111	.060	.018	.105	.057	.017	
5.0	.121	.062	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017	.100	.053	.016	
6.0	.114	.057	.016	.111	.056	.016	.106	.054	.016	.101	.052	.015	.096	.050	.015	
7.0	.108	.053	.015	.105	.053	.015	.101	.051	.015	.096	.049	.014	.092	.048	.014	
8.0	.102	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013	
9.0	.097	.047	.013	.095	.046	.013	.091	.045	.013	.088	.044	.013	.085	.043	.012	
10.0	.093	.044	.012	.091	.044	.012	.087	.043	.012	.084	.042	.012	.081	.041	.012	

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pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.115	.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	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.076	.053	.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	.072	.045	.026	.050	.031	.019	.029	.019	.011	.009	.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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NAME: FS6-13W-930-15D					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					DIM.: L290mm*W45mm*H60mm					
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	12.6	13.3	12.8	13.5	13.6	12.8	13.5	13.0	13.7	13.8
3H	13.4	14.1	13.7	14.3	14.5	13.7	14.4	13.9	14.6	14.8
4H	13.6	14.2	13.8	14.5	14.7	13.9	14.5	14.1	14.8	15.0
6H	13.6	14.3	13.9	14.5	14.7	13.9	14.6	14.2	14.8	15.0
8H	13.6	14.2	13.9	14.5	14.7	13.9	14.5	14.2	14.8	15.0
12H	13.6	14.2	13.9	14.5	14.7	13.9	14.5	14.2	14.8	15.0
4H 2H	13.0	13.6	13.2	13.8	14.1	13.1	13.8	13.4	14.0	14.2
3H	13.9	14.5	14.3	14.8	15.1	14.2	14.8	14.5	15.0	15.3
4H	14.1	14.7	14.5	15.0	15.3	14.4	14.9	14.7	15.2	15.5
6H	14.2	14.7	14.6	15.0	15.4	14.5	15.0	14.8	15.3	15.6
8H	14.2	14.7	14.6	15.0	15.4	14.5	14.9	14.9	15.3	15.7
12H	14.2	14.6	14.6	15.0	15.4	14.5	14.9	14.9	15.3	15.7
8H 4H	14.2	14.6	14.5	15.0	15.3	14.4	14.8	14.8	15.2	15.6
6H	14.3	14.7	14.7	15.1	15.5	14.5	14.9	15.0	15.3	15.7
8H	14.3	14.7	14.8	15.1	15.5	14.6	14.9	15.0	15.3	15.8
12H	14.3	14.6	14.8	15.1	15.5	14.6	14.9	15.1	15.3	15.8
12H 4H	14.1	14.5	14.5	14.9	15.3	14.4	14.8	14.8	15.1	15.5
6H	14.3	14.6	14.7	15.0	15.4	14.5	14.8	14.9	15.2	15.7
8H	14.3	14.6	14.8	15.0	15.5	14.6	14.8	15.0	15.3	15.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.7					+ 0.6 / - 0.7				
1.5H	+ 0.5 / - 0.6					+ 0.6 / - 0.6				
2.0H	+ 1.1 / - 0.6					+ 1.2 / - 0.6				

CIE Pub.117 Corrected 1037 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.1)

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 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0771A P:15.74W PF:0.9249 Lamp Flux:1036.75x1 lm		
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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) $k(RI) \times RCR = 5$									
$k = 0.60$	86	79	75	85	79	75	84	78	75	71
0.80	93	87	83	92	87	83	91	86	82	79
1.00	98	92	88	97	91	88	95	91	87	83
1.25	102	96	93	101	96	92	99	95	91	87
1.50	105	100	96	103	99	96	101	97	94	90
2.00	108	103	100	106	102	99	103	100	98	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	108	105	109	106	104	106	103	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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Conical surface Flux(90deg):

960.14 lm

%lum = 92.6%

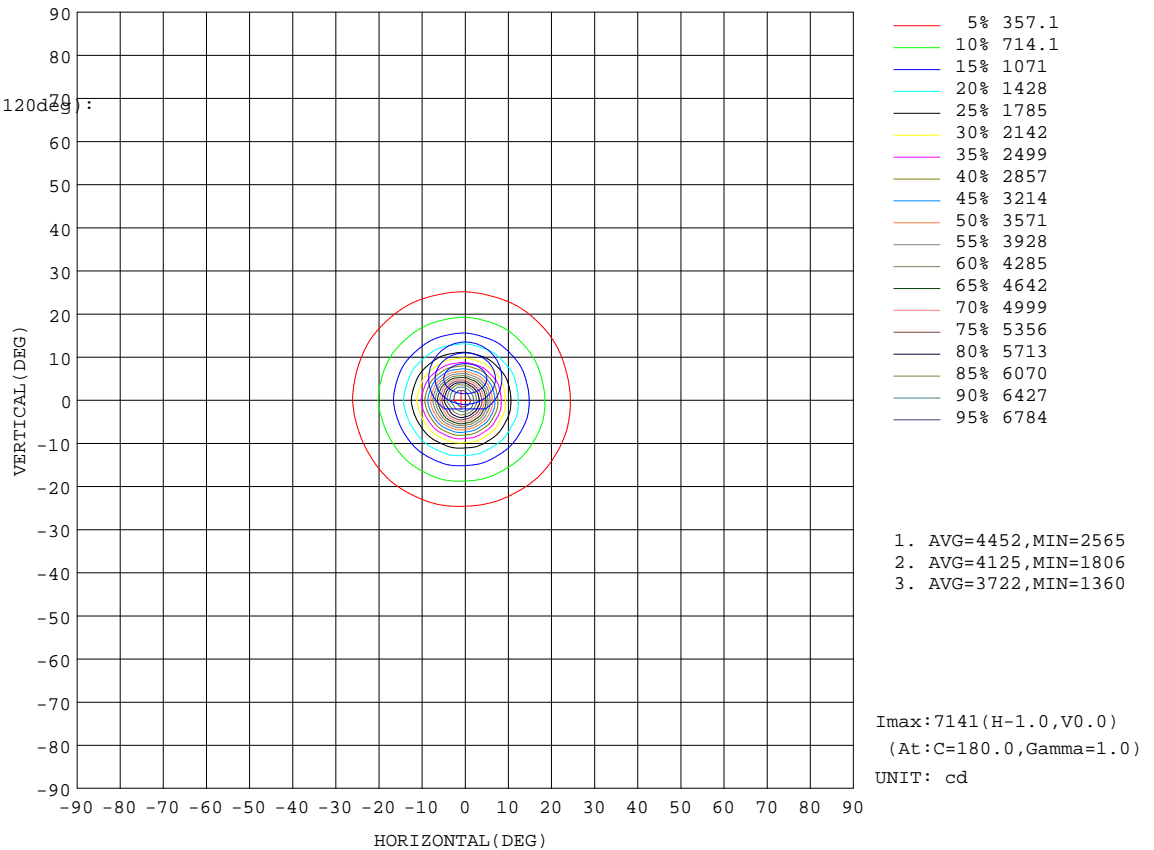
%lamp = 92.6%

Conical surface Flux(120deg):

1008.2 lm

%lum = 97.2%

%lamp = 97.2%

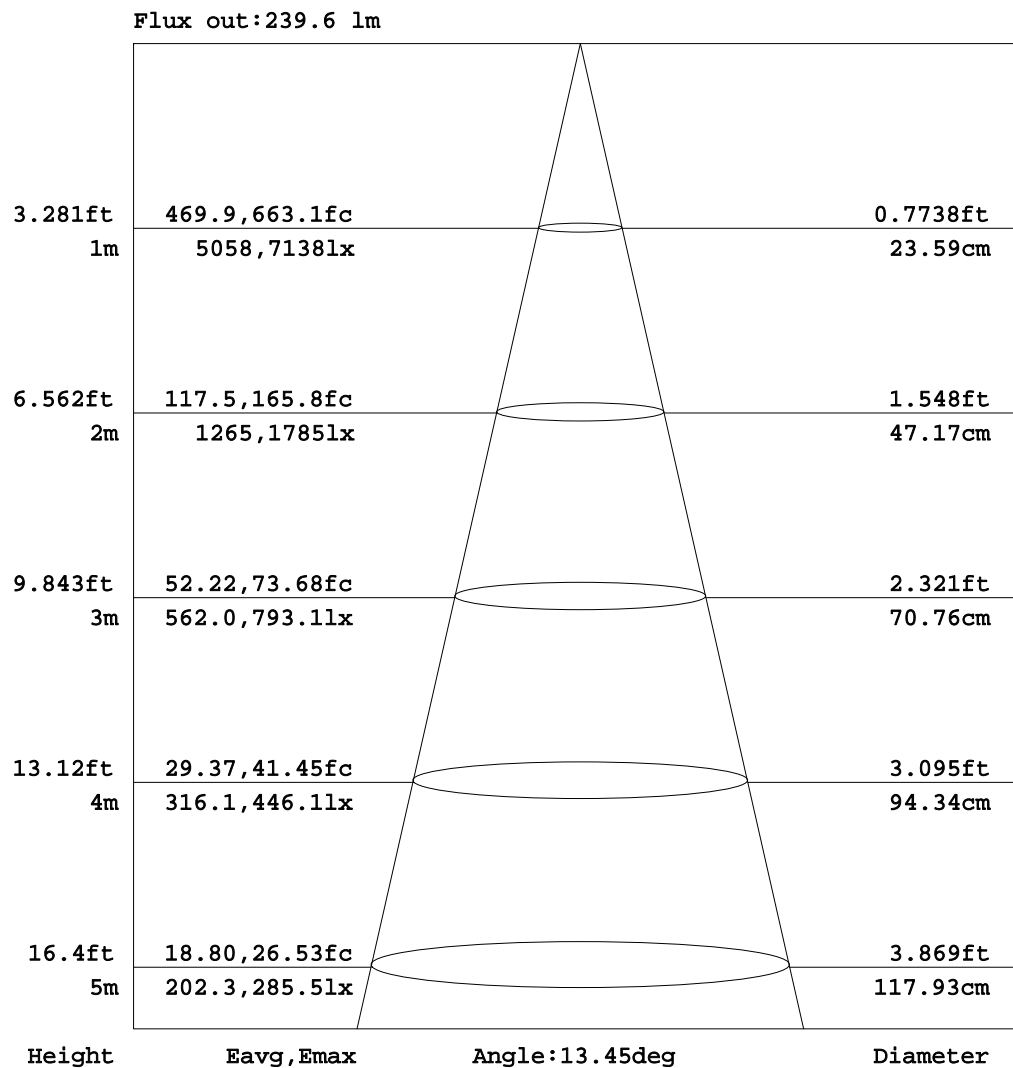


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AAI Figure

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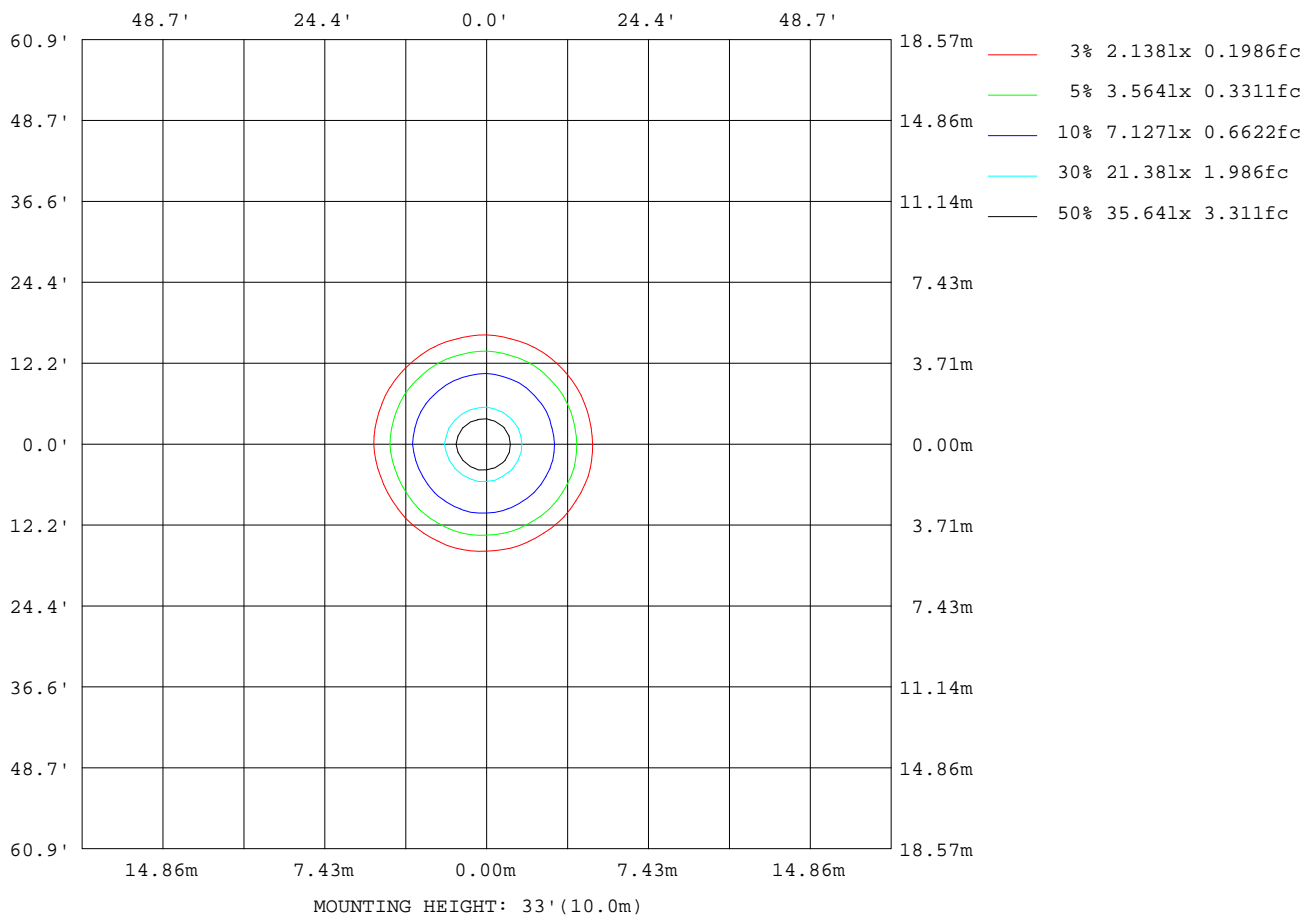
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

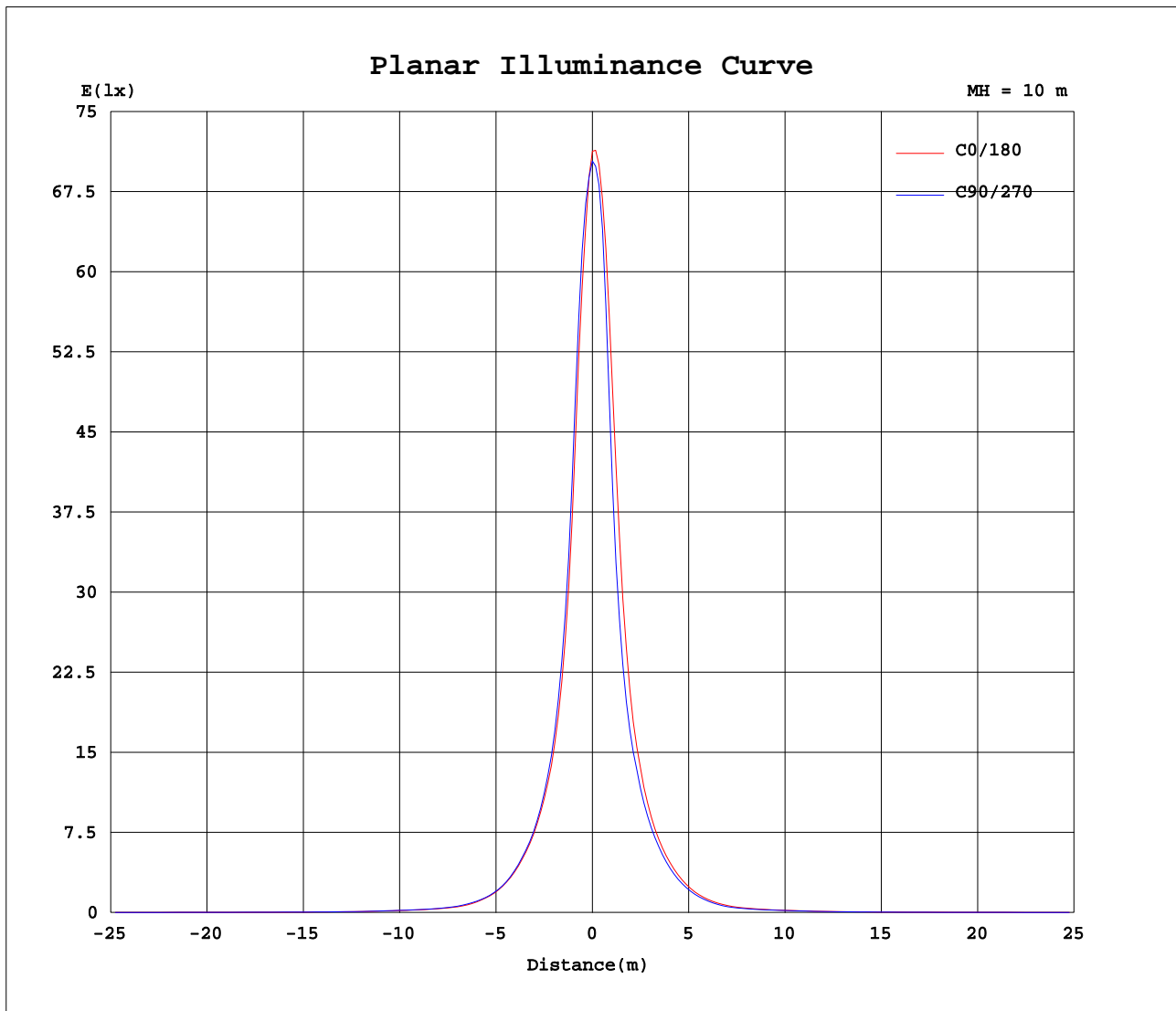
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Planar Illuminance Curve



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Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
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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: 2017-05-17

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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	7127	7109	7081	7076	7054	7052	7038	7032	7024	7011
3.0	5882	5962	5909	6017	6018	6162	6228	6369	6357	6456
6.0	3724	3825	3791	3911	3891	4052	4096	4358	4455	4704
9.0	2244	2285	2253	2322	2323	2431	2445	2564	2598	2766
12.0	1473	1514	1478	1538	1518	1569	1571	1632	1651	1737
15.0	1050	1058	1040	1055	1050	1082	1089	1134	1145	1199
18.0	751.3	759.9	746.4	753.1	745.1	765.5	773.3	802.9	807.6	834.9
21.0	535.7	542.4	533.2	536.4	530.0	545.0	552.7	576.6	579.9	596.7
24.0	373.7	377.6	370.2	372.8	368.4	377.9	382.4	400.6	404.5	419.2
27.0	257.3	260.4	255.6	258.1	255.7	262.5	265.8	277.8	279.9	289.1
30.0	179.7	182.1	179.9	182.5	181.5	186.3	188.0	194.5	195.6	201.0
33.0	122.6	127.0	125.8	130.5	130.0	134.9	136.1	141.4	141.2	144.0
36.0	90.80	92.19	92.71	94.78	95.69	98.25	99.65	101.9	102.5	104.2
39.0	74.17	75.26	75.51	76.49	76.96	78.83	80.25	81.80	82.11	82.79
42.0	62.94	63.97	64.08	64.80	64.86	66.16	66.91	68.41	68.75	68.97
45.0	54.89	55.65	55.80	56.49	56.52	57.66	58.16	59.23	59.25	59.74
48.0	45.85	46.80	46.61	47.34	47.30	48.71	49.17	50.37	50.42	50.89
51.0	36.28	36.57	36.40	36.82	36.84	37.49	37.64	38.36	38.47	38.93
54.0	31.55	31.75	31.61	31.98	31.96	32.47	32.43	32.78	32.87	33.15
57.0	28.11	28.32	28.22	28.54	28.53	28.98	28.94	29.20	29.24	29.47
60.0	24.71	24.93	24.83	25.16	25.16	25.62	25.59	25.86	25.87	26.13
63.0	21.23	21.45	21.36	21.70	21.71	22.21	22.16	22.46	22.46	22.73
66.0	17.57	17.79	17.72	18.07	18.06	18.59	18.56	18.89	18.89	19.18
69.0	13.82	14.04	14.00	14.31	14.34	14.84	14.84	15.17	15.19	15.48
72.0	9.616	9.898	9.917	10.34	10.36	10.82	10.75	11.10	11.15	11.46
75.0	5.874	5.959	5.894	6.040	6.029	6.245	6.281	6.585	6.649	7.034
78.0	4.064	4.150	4.073	4.168	4.136	4.266	4.250	4.397	4.390	4.513
81.0	2.722	2.771	2.729	2.799	2.783	2.876	2.873	2.974	2.969	3.053
84.0	1.581	1.608	1.592	1.639	1.642	1.709	1.719	1.794	1.802	1.862
87.0	0.5939	0.5993	0.6005	0.6253	0.6443	0.6886	0.7187	0.7630	0.7887	0.8264
90.0	0.0678	0.0656	0.0678	0.0656	0.0656	0.0656	0.0700	0.0678	0.0831	0.0809
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	7011	6989	7127	7109	7081	7076	7054	7052	7038	7032
3.0	6388	6472	6704	6691	6738	6700	6699	6517	6426	6176
6.0	4689	4800	4970	4827	4838	4576	4451	4132	4048	3831
9.0	2805	2933	3049	2908	2855	2658	2587	2427	2409	2308
12.0	1768	1839	1911	1846	1821	1727	1691	1619	1608	1557
15.0	1214	1252	1304	1266	1260	1208	1193	1147	1139	1099
18.0	840.7	869.1	913.5	893.8	890.8	854.0	845.4	818.1	817.4	792.6
21.0	602.3	617.1	652.1	642.5	637.6	615.7	605.6	588.4	583.2	564.3
24.0	422.4	436.1	461.8	451.5	450.6	434.0	428.7	412.5	409.5	394.5
27.0	290.2	300.9	320.3	313.3	312.4	301.1	297.3	285.6	283.6	272.5
30.0	201.4	206.8	214.9	214.9	214.8	206.9	204.6	196.4	194.5	186.3
33.0	142.7	144.7	151.9	147.4	146.9	140.3	139.8	131.3	131.4	123.5
36.0	103.8	104.5	108.2	105.2	103.0	98.56	96.31	92.65	91.42	89.62
39.0	82.56	82.61	84.92	82.98	81.24	78.38	76.83	74.61	73.87	72.54
42.0	68.78	68.53	70.17	68.92	67.65	65.50	64.67	63.12	62.65	61.50
45.0	59.10	59.24	60.36	59.16	58.56	56.91	56.35	55.14	54.60	53.74
48.0	50.26	50.57	51.99	51.05	50.79	49.28	48.61	47.31	46.93	45.45
51.0	38.77	39.32	40.72	39.74	39.27	37.87	37.29	36.53	36.44	36.04
54.0	32.93	33.04	33.89	33.46	33.27	32.62	32.39	31.85	31.75	31.35
57.0	29.25	29.27	29.97	29.69	29.57	29.06	28.90	28.44	28.34	27.96
60.0	25.94	25.98	26.58	26.30	26.22	25.73	25.57	25.13	25.03	24.65
63.0	22.56	22.63	23.15	22.91	22.82	22.35	22.18	21.76	21.65	21.27
66.0	19.00	19.12	19.59	19.31	19.26	18.76	18.63	18.18	18.10	17.69
69.0	15.32	15.46	15.88	15.58	15.54	15.07	14.98	14.53	14.48	14.05
72.0	11.37	11.58	11.95	11.67	11.65	11.23	11.13	10.70	10.65	10.21
75.0	6.994	7.187	7.396	7.181	7.146	6.712	6.561	6.281	6.300	6.090
78.0	4.487	4.576	4.732	4.625	4.625	4.494	4.470	4.319	4.313	4.176
81.0	3.031	3.099	3.218	3.139	3.155	3.060	3.054	2.951	2.938	2.835
84.0	1.861	1.903	1.992	1.950	1.950	1.893	1.874	1.803	1.778	1.711
87.0	0.8412	0.8679	0.9260	0.9082	0.9019	0.8666	0.8451	0.7987	0.7643	0.7200
90.0	0.1181	0.1006	0.0765	0.1050	0.1050	0.1006	0.0831	0.0896	0.0853	0.1050
G/C	300.0	315.0	330.0	345.0						
0.0	7024	7011	7011	6989						
3.0	6115	5937	5947	5830						
6.0	3874	3769	3827	3716						
9.0	2318	2256	2302	2248						
12.0	1562	1518	1541	1481						
15.0	1100	1071	1072	1044						
18.0	789.7	762.5	759.4	742.5						
21.0	562.6	545.6	541.9	529.4						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-05-17

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	394.2	381.5	378.7	368.5
27.0	271.1	261.7	259.9	253.1
30.0	185.9	179.7	179.3	175.1
33.0	122.3	119.3	120.0	118.7
36.0	89.92	88.71	89.10	88.21
39.0	72.33	71.44	71.80	71.94
42.0	61.63	60.76	61.00	61.06
45.0	53.86	53.18	53.37	53.37
48.0	45.14	44.05	44.47	44.48
51.0	36.11	35.62	35.77	35.62
54.0	31.34	31.03	31.18	31.08
57.0	27.89	27.64	27.75	27.69
60.0	24.58	24.32	24.43	24.35
63.0	21.19	20.94	21.01	20.95
66.0	17.63	17.36	17.46	17.37
69.0	14.00	13.71	13.83	13.69
72.0	10.15	9.850	9.888	9.622
75.0	6.136	5.949	5.968	5.847
78.0	4.191	4.087	4.118	4.032
81.0	2.836	2.760	2.772	2.708
84.0	1.690	1.641	1.633	1.593
87.0	0.6900	0.6587	0.6378	0.6150
90.0	0.1006	0.1028	0.0918	0.0743

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-05-17

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: