
LED Downlight FUSION Series LE-
FS3-7W-840-30D



Light Output Ratio:	100.0%	
Luminaire Power:	8.016 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: 2017-06-09

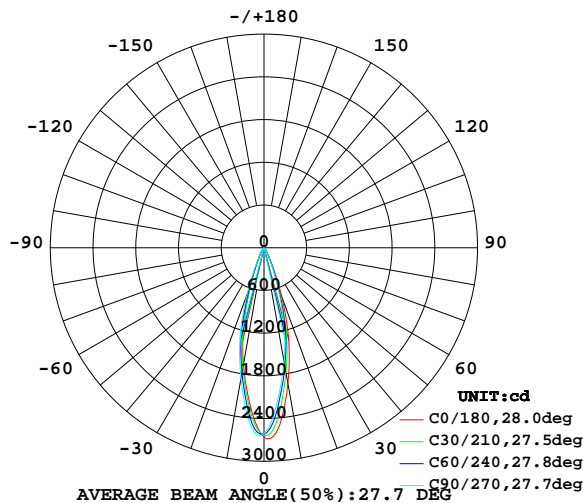
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

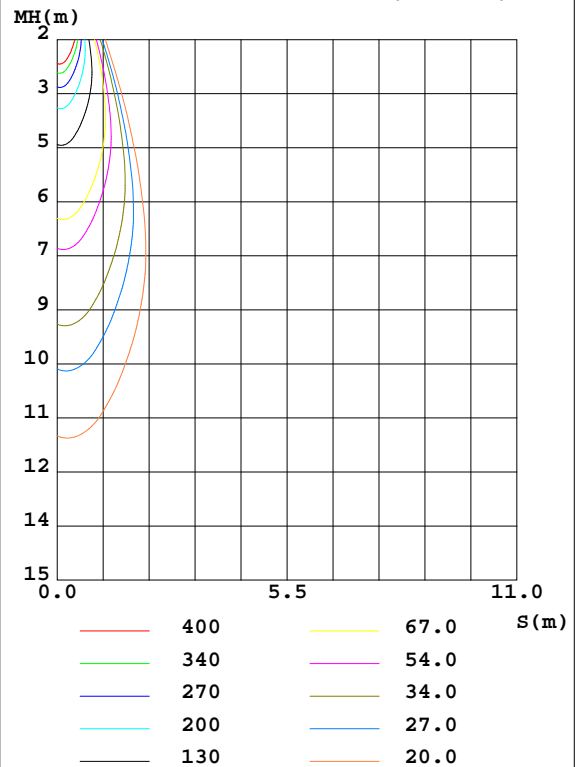
Test:U:220.8V I:0.0446A P:8.016W PF:0.8133 Lamp Flux:722.328x1 lm		
NAME: FS3-7W-840-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L152mm*W45mm*H60mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.11 lm/W			
MODEL	CREE-4000K	I _{max} (cd)	2684	S/MH(C0/180)	0.43
NOMINAL POWER(W)	9.0	LOR(%)	100.0	S/MH(C90/270)	0.50
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	722.33	η UP,DN(C0-180)	0.0,47.6
NOMINAL FLUX(lm)	722.328	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.4
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)



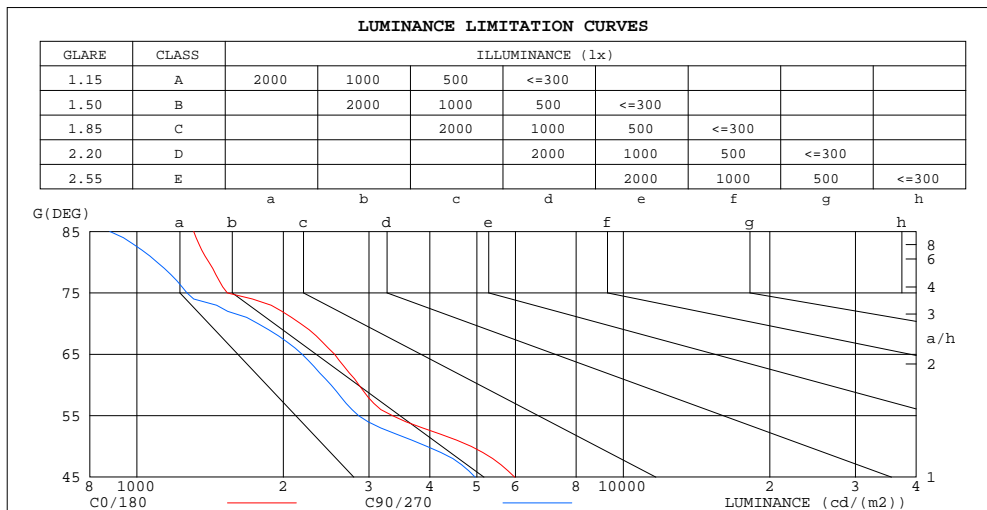
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-06-09

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	$\%lum, lamp$
10	1935	1748	1629	1568	1668	1741	1868	1931	0- 10	202.7	202.7	28.1,28.1
20	718.2	604.7	520.6	484.5	525.7	559.4	685.8	694.2	10- 20	315.3	518.1	71.7,71.7
30	123.1	112.7	103.0	98.71	99.98	99.38	116.4	115.8	20- 30	123.8	641.9	88.9,88.9
40	37.38	32.38	30.08	29.97	33.54	35.88	39.85	38.45	30- 40	37.30	679.2	94,94
50	21.41	19.25	17.36	17.54	18.92	20.86	21.78	22.21	40- 50	20.79	700.0	96.9,96.9
60	9.785	9.124	8.574	8.527	9.022	9.615	9.997	9.825	50- 60	11.77	711.7	98.5,98.5
70	5.080	4.551	4.152	4.197	4.565	5.041	5.330	5.201	60- 70	6.883	718.6	99.5,99.5
80	1.670	1.452	1.307	1.256	1.371	1.541	1.666	1.694	70- 80	2.960	721.6	99.9,99.9
90	0.0722	0.0350	0.0350	0.0350	0.0284	0.0306	0.0656	0.0984	80- 90	0.7359	722.3	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		



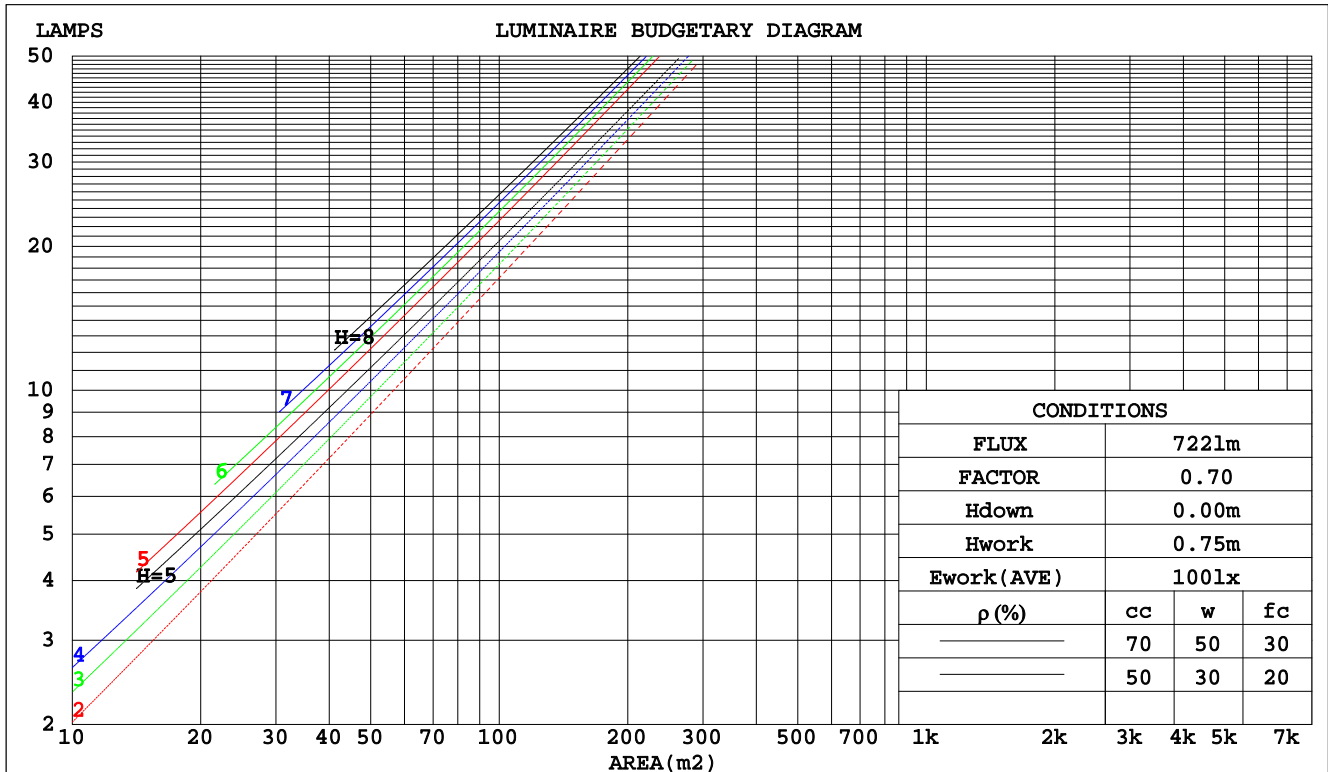
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.8V I:0.0446A P:8.016W PF:0.8133 Lamp Flux:722.328x1 lm		
NAME: FS3-7W-840-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L152mm*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	1.00	.99	.98	.97	.95
2.0	1.06	1.03	.90	1.04	1.01	.99	1.01	.99	.97	.98	.96	.94	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.87	.83	.89	.86	.83	.88	.85	.82	.86	.84	.81	.80
6.0	.88	.83	.80	.87	.83	.80	.86	.82	.79	.85	.81	.79	.84	.81	.78	.77
7.0	.85	.80	.77	.84	.80	.77	.83	.79	.76	.82	.78	.76	.81	.78	.75	.74
8.0	.82	.77	.74	.81	.77	.74	.80	.76	.73	.79	.76	.73	.78	.75	.73	.72
9.0	.79	.74	.71	.78	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.69
10.0	.76	.72	.69	.76	.72	.69	.75	.71	.69	.75	.71	.68	.74	.71	.68	.67



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WEC AND CCEC

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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	.153	.087	.028	.146	.083	.026	.134	.077	.024	.122	.070	.023	.112	.065	.021	
2.0	.143	.078	.024	.137	.076	.023	.127	.071	.022	.117	.066	.021	.109	.061	.019	
3.0	.134	.071	.021	.129	.069	.021	.120	.065	.020	.112	.061	.019	.105	.058	.018	
4.0	.125	.065	.019	.121	.064	.019	.114	.060	.018	.107	.058	.017	.101	.055	.017	
5.0	.118	.060	.017	.115	.059	.017	.108	.056	.017	.103	.054	.016	.097	.052	.016	
6.0	.112	.056	.016	.109	.055	.016	.103	.053	.015	.098	.051	.015	.093	.049	.015	
7.0	.106	.052	.015	.104	.052	.015	.099	.050	.014	.094	.048	.014	.090	.047	.014	
8.0	.101	.049	.014	.099	.049	.014	.095	.047	.013	.091	.046	.013	.087	.045	.013	
9.0	.096	.047	.013	.094	.046	.013	.091	.045	.013	.087	.044	.013	.084	.043	.012	
10.0	.092	.044	.012	.090	.044	.012	.087	.043	.012	.084	.042	.012	.081	.041	.012	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.131	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.075	.056	.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	.007	
7.0	.100	.068	.046	.086	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006	
8.0	.094	.062	.040	.081	.054	.034	.056	.038	.024	.033	.022	.015	.011	.007	.005	
9.0	.088	.056	.034	.076	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.051	.030	.072	.045	.026	.050	.031	.019	.029	.019	.011	.009	.006	.004	

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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:

UGR(Unified Glare Rating) Table

Test:U:220.8V I:0.0446A P:8.016W PF:0.8133 Lamp Flux:722.328x1 lm										
NAME: FS3-7W-840-30D					TYPE:Downlight			SERIAL No.:		
SPEC.:4000K					DIM.: L152mm*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	10.9	11.6	11.1	11.8	11.9	10.0	10.7	10.2	10.9	11.0
3H	11.4	12.1	11.7	12.3	12.5	10.5	11.2	10.7	11.4	11.6
4H	11.6	12.3	11.9	12.5	12.7	10.6	11.3	10.9	11.5	11.7
6H	11.7	12.3	12.0	12.5	12.8	10.7	11.3	11.0	11.5	11.8
8H	11.7	12.3	12.0	12.5	12.8	10.7	11.3	11.0	11.5	11.8
12H	11.7	12.3	12.0	12.5	12.8	10.7	11.2	11.0	11.5	11.8
4H 2H	11.0	11.7	11.3	11.9	12.1	10.2	10.9	10.5	11.1	11.3
3H	11.7	12.3	12.0	12.5	12.8	10.9	11.4	11.2	11.7	12.0
4H	11.9	12.4	12.3	12.7	13.0	11.0	11.6	11.4	11.9	12.2
6H	12.1	12.5	12.4	12.9	13.2	11.2	11.6	11.5	12.0	12.3
8H	12.1	12.5	12.5	12.9	13.3	11.2	11.6	11.6	12.0	12.3
12H	12.1	12.5	12.5	12.9	13.3	11.2	11.6	11.6	12.0	12.3
8H 4H	11.9	12.3	12.3	12.7	13.0	11.1	11.5	11.5	11.9	12.2
6H	12.1	12.5	12.5	12.9	13.3	11.2	11.6	11.7	12.0	12.4
8H	12.2	12.5	12.6	12.9	13.4	11.3	11.6	11.7	12.0	12.5
12H	12.3	12.5	12.7	13.0	13.4	11.3	11.6	11.8	12.0	12.5
12H 4H	11.9	12.3	12.3	12.6	13.0	11.0	11.4	11.4	11.8	12.2
6H	12.1	12.4	12.5	12.8	13.3	11.2	11.6	11.7	12.0	12.4
8H	12.2	12.5	12.6	12.9	13.4	11.3	11.6	11.8	12.0	12.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.0					+ 0.7 / - 1.0				
1.5H	+ 1.2 / - 1.0					+ 0.6 / - 0.8				
2.0H	+ 1.8 / - 1.1					+ 1.7 / - 1.0				

CIE Pub.117 Corrected 722.3 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.1)

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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 Test Distance:5.850m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.8V I:0.0446A P:8.016W PF:0.8133 Lamp Flux:722.328x1 lm		
NAME: FS3-7W-840-30D	TYPE:Downlight	SERIAL No.:
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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	82	78	87	81	78	87	81	78	74
0.80	95	89	86	94	89	86	93	88	85	82
1.00	99	94	90	99	93	90	97	93	90	86
1.25	103	98	95	102	98	94	100	96	94	89
1.50	106	101	98	105	101	97	103	99	96	92
2.00	109	104	101	107	103	100	104	101	99	94
2.50	110	106	104	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	108	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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Conical surface Flux(90deg):

690.44 lm

%lum = 95.6%

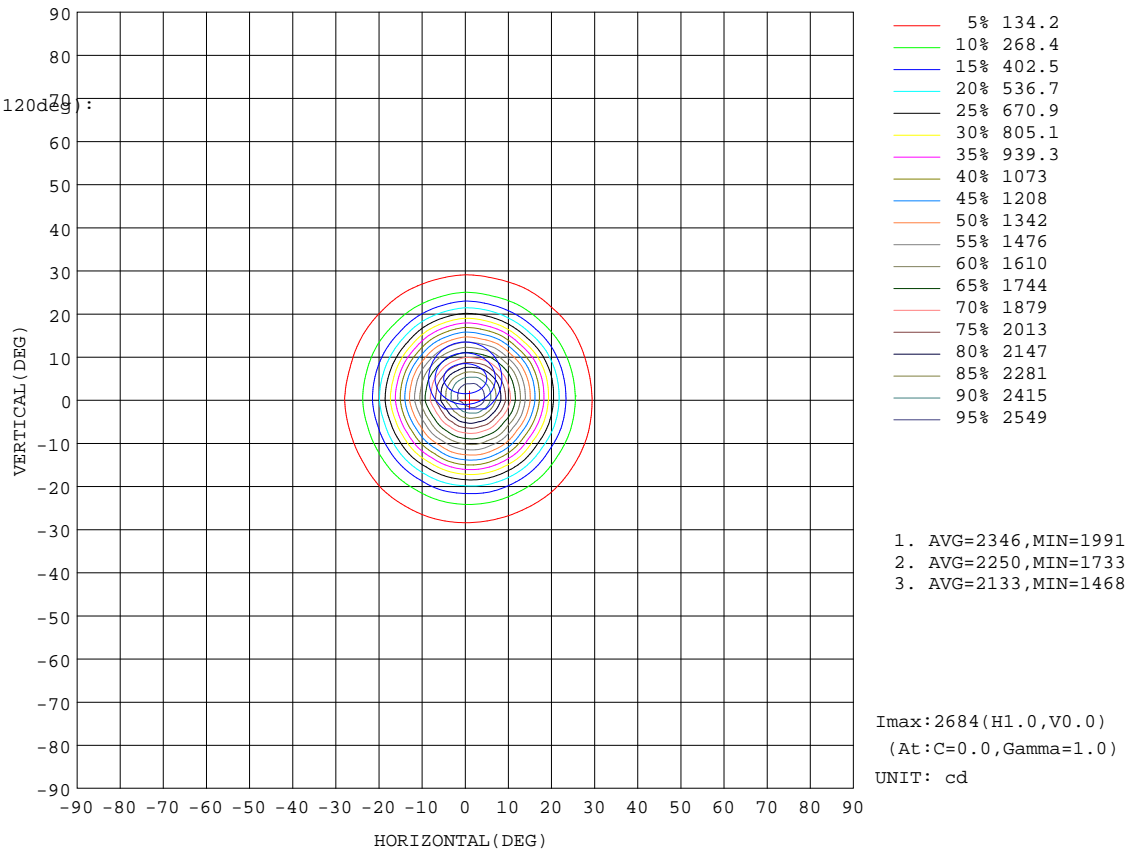
%lamp = 95.6%

Conical surface Flux(120deg):

711.75 lm

%lum = 98.5%

%lamp = 98.5%

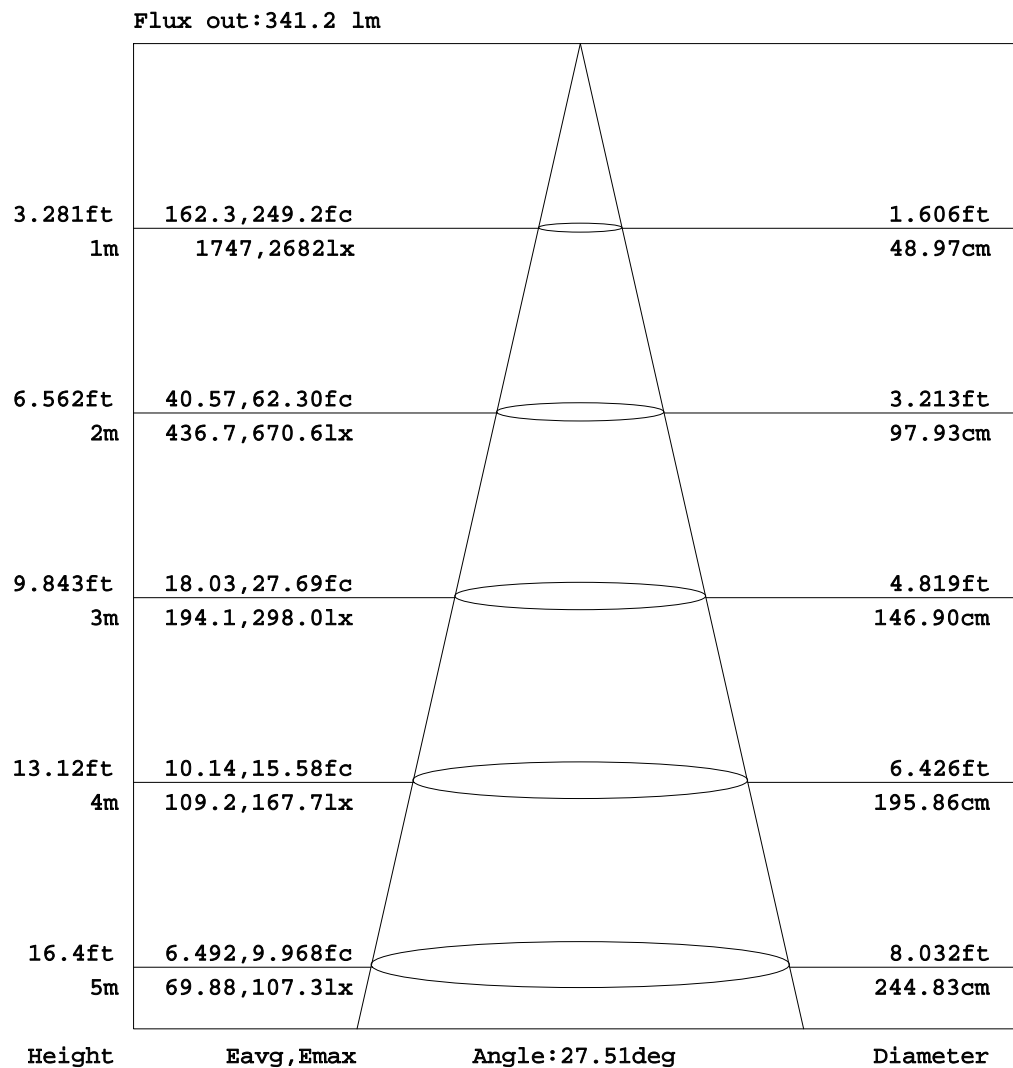


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AAI Figure

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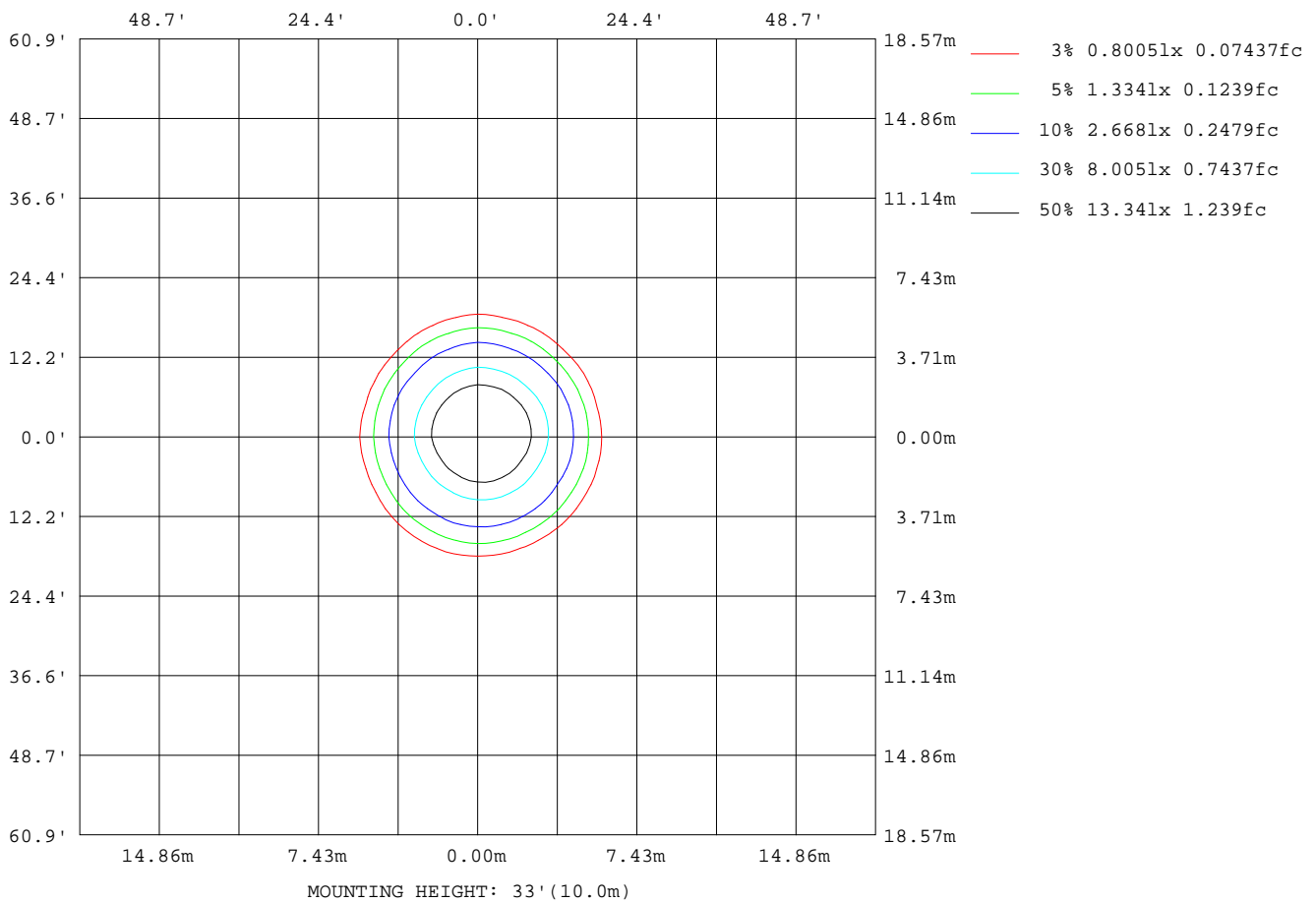
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

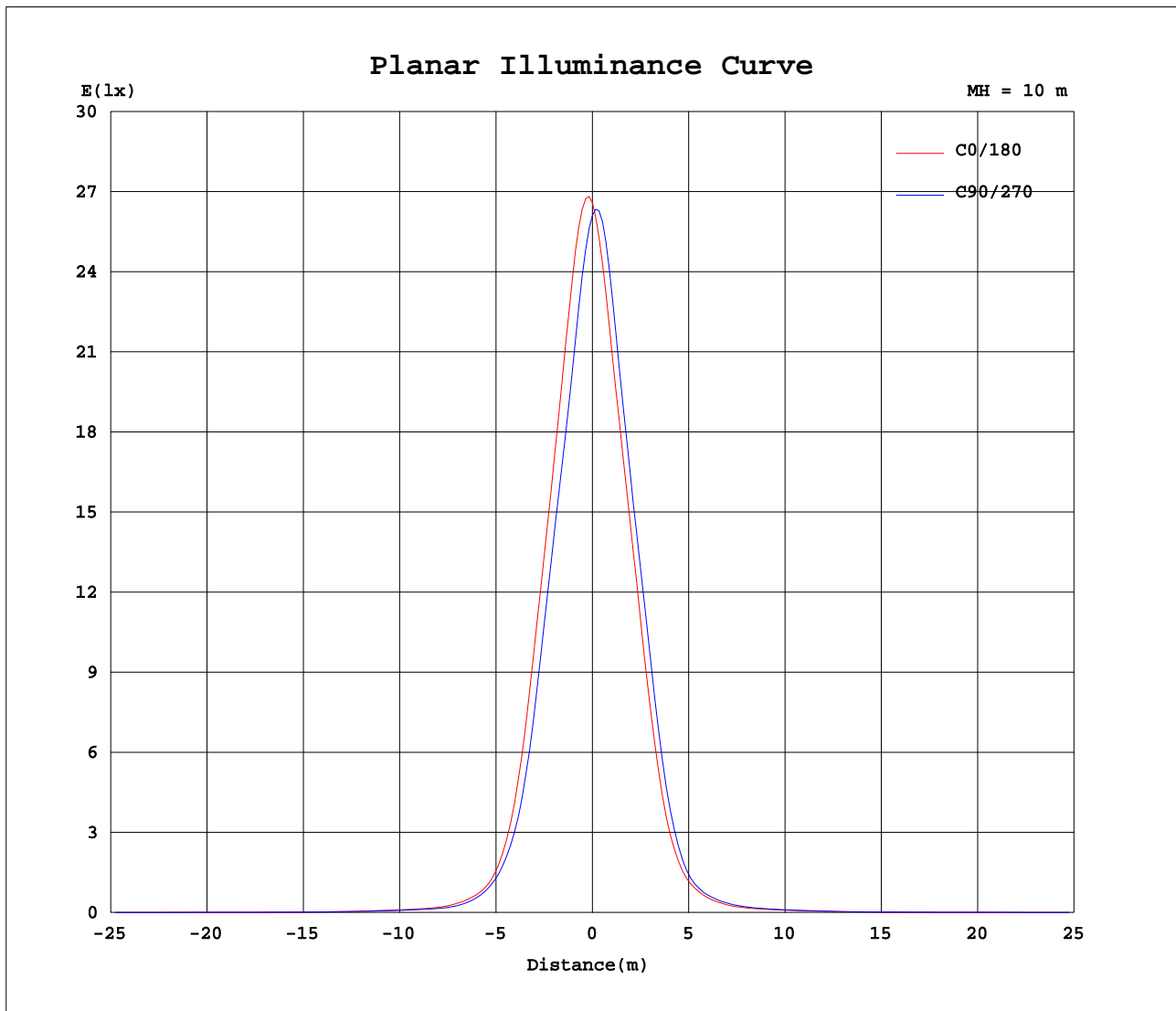
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Planar Illuminance Curve



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Table--1

UNIT: cd

[illegible]

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Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
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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:

```

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	2659	2643	2635	2625	2616	2615	2611	2614	2606	2611
3.0	2644	2605	2553	2517	2457	2424	2393	2381	2348	2356
6.0	2401	2339	2254	2203	2126	2093	2052	2036	1999	2011
9.0	2055	1977	1890	1858	1797	1768	1732	1706	1672	1672
12.0	1702	1644	1558	1536	1481	1458	1414	1385	1341	1348
15.0	1349	1284	1202	1178	1132	1109	1069	1034	985.2	992.7
18.0	972.1	908.3	834.3	822.7	777.5	751.3	713.1	687.3	658.5	666.3
21.0	615.0	578.0	523.5	509.6	485.6	472.5	442.3	438.2	412.8	407.8
24.0	357.3	340.2	311.0	304.4	290.5	283.6	275.7	265.5	250.7	248.7
27.0	202.0	196.7	185.9	179.8	170.7	168.8	167.6	162.6	154.7	152.2
30.0	123.1	120.3	116.1	112.7	105.2	103.5	103.0	103.0	99.78	98.71
33.0	81.81	80.32	75.31	71.93	67.33	63.86	64.98	63.52	63.18	63.54
36.0	55.84	53.15	49.14	46.99	43.81	41.93	41.94	41.06	40.13	40.77
39.0	40.46	38.66	36.65	34.69	33.16	32.58	31.89	31.35	31.18	31.78
42.0	33.46	31.91	30.42	29.11	28.24	27.87	27.34	26.89	26.98	27.37
45.0	28.92	27.81	26.91	25.81	24.92	24.24	23.99	23.94	24.08	24.34
48.0	24.67	24.19	23.38	22.55	21.35	20.63	20.42	20.50	20.55	20.71
51.0	19.55	19.31	18.32	17.48	16.49	16.02	15.82	15.97	15.78	15.87
54.0	14.36	14.23	13.41	13.02	12.43	12.14	12.01	12.14	12.02	12.05
57.0	11.43	11.31	10.87	10.67	10.26	10.14	10.03	10.10	10.04	10.10
60.0	9.785	9.642	9.287	9.124	8.805	8.643	8.574	8.582	8.521	8.527
63.0	8.286	8.142	7.842	7.646	7.328	7.213	7.186	7.204	7.127	7.143
66.0	6.884	6.742	6.486	6.285	5.996	5.902	5.884	5.891	5.788	5.859
69.0	5.539	5.410	5.145	4.977	4.703	4.625	4.572	4.599	4.522	4.608
72.0	4.199	4.120	3.836	3.743	3.512	3.357	3.249	3.283	3.214	3.235
75.0	2.715	2.631	2.507	2.432	2.329	2.275	2.244	2.224	2.187	2.196
78.0	2.066	2.003	1.904	1.833	1.740	1.695	1.670	1.649	1.616	1.619
81.0	1.478	1.417	1.338	1.271	1.200	1.151	1.139	1.111	1.091	1.085
84.0	0.9467	0.8862	0.8285	0.7660	0.7191	0.6720	0.6709	0.6414	0.6293	0.6151
87.0	0.4762	0.4187	0.3843	0.3247	0.2902	0.2417	0.2487	0.2178	0.2136	0.1916
90.0	0.0722	0.0503	0.0372	0.0350	0.0350	0.0350	0.0350	0.0350	0.0350	0.0350
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2604	2609	2635	2643	2635	2625	2616	2615	2611	2614
3.0	2348	2367	2440	2450	2485	2507	2546	2572	2598	2611
6.0	2004	2036	2109	2123	2171	2199	2249	2282	2333	2367
9.0	1665	1708	1779	1785	1824	1848	1898	1926	1980	2002
12.0	1340	1380	1445	1462	1495	1514	1561	1598	1640	1644
15.0	982.7	1022	1081	1098	1123	1151	1214	1253	1305	1299
18.0	658.3	678.4	733.9	729.6	750.4	774.9	837.3	878.6	929.3	927.2
21.0	402.5	408.3	439.2	445.8	454.2	462.2	508.6	537.4	577.7	581.4
24.0	237.1	238.3	257.2	255.4	262.9	263.2	284.5	300.0	331.8	319.2
27.0	143.8	145.3	152.6	148.6	153.1	157.0	169.0	175.5	183.3	184.6
30.0	94.85	92.62	99.98	97.40	97.69	99.38	105.0	111.4	116.4	115.1
33.0	62.44	60.97	67.25	68.06	69.60	70.85	74.54	78.07	81.20	79.74
36.0	40.72	43.31	46.44	47.27	48.33	50.62	53.76	56.19	57.75	57.25
39.0	31.76	33.18	35.64	36.45	37.15	38.47	40.67	42.10	43.27	43.12
42.0	27.61	28.14	30.33	30.62	31.50	32.29	33.90	34.71	34.71	34.62
45.0	24.16	24.51	26.08	26.67	27.54	28.22	29.04	29.19	29.43	29.49
48.0	20.45	20.94	22.09	22.73	23.68	24.35	24.81	24.79	24.91	25.20
51.0	15.76	16.06	17.19	17.66	18.58	18.90	19.76	19.68	19.98	20.11
54.0	11.94	12.10	12.85	13.09	13.64	13.87	14.50	14.63	14.73	14.78
57.0	9.976	10.03	10.60	10.75	11.06	11.25	11.54	11.61	11.68	11.68
60.0	8.469	8.527	9.022	9.182	9.468	9.615	9.936	9.954	9.997	9.972
63.0	7.096	7.167	7.601	7.747	8.003	8.149	8.462	8.442	8.469	8.457
66.0	5.812	5.909	6.288	6.401	6.649	6.812	7.066	7.079	7.082	7.108
69.0	4.578	4.651	4.998	5.107	5.343	5.485	5.699	5.776	5.765	5.784
72.0	3.234	3.293	3.579	3.802	4.036	4.137	4.360	4.452	4.459	4.436
75.0	2.176	2.209	2.370	2.414	2.519	2.588	2.715	2.770	2.882	2.886
78.0	1.607	1.625	1.754	1.797	1.872	1.935	2.020	2.057	2.068	2.075
81.0	1.080	1.090	1.187	1.230	1.297	1.351	1.417	1.464	1.472	1.486
84.0	0.6141	0.6130	0.6824	0.7296	0.7721	0.8281	0.8813	0.9287	0.9272	0.9527
87.0	0.1940	0.1828	0.2282	0.2790	0.3133	0.3708	0.4073	0.4562	0.4488	0.4780
90.0	0.0350	0.0328	0.0284	0.0284	0.0262	0.0306	0.0328	0.0678	0.0656	0.0962
G/C	300.0	315.0	330.0	345.0						
0.0	2606	2611	2604	2609						
3.0	2630	2633	2641	2635						
6.0	2420	2424	2439	2423						
9.0	2051	2061	2081	2070						
12.0	1687	1698	1723	1712						
15.0	1345	1340	1373	1369						
18.0	951.1	948.1	997.0	993.3						
21.0	581.7	589.0	627.1	636.0						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-06-09

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	329.9	334.6	356.3	357.6
27.0	190.3	187.5	195.9	201.3
30.0	116.5	115.8	121.6	119.8
33.0	79.06	78.95	80.80	80.65
36.0	56.97	55.60	57.08	54.97
39.0	42.48	41.48	41.62	40.79
42.0	34.74	34.20	34.04	33.21
45.0	30.00	29.57	29.55	28.67
48.0	25.59	25.50	25.37	24.55
51.0	20.51	20.27	20.48	19.56
54.0	15.19	14.84	15.00	14.42
57.0	11.70	11.50	11.47	11.26
60.0	9.973	9.825	9.822	9.607
63.0	8.465	8.389	8.381	8.245
66.0	7.097	7.003	7.003	6.854
69.0	5.780	5.649	5.662	5.553
72.0	4.475	4.336	4.390	4.261
75.0	2.956	2.896	2.921	2.810
78.0	2.103	2.088	2.095	2.066
81.0	1.502	1.501	1.504	1.490
84.0	0.9622	0.9702	0.9687	0.9658
87.0	0.4838	0.5021	0.4948	0.5021
90.0	0.0918	0.0984	0.0940	0.0962

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-09

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: