
LED Downlight FUSION Series LE-
FS6-13W-840-15D



Light Output Ratio:	100.0%	
Luminaire Power:	15.09 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: 2017-06-14

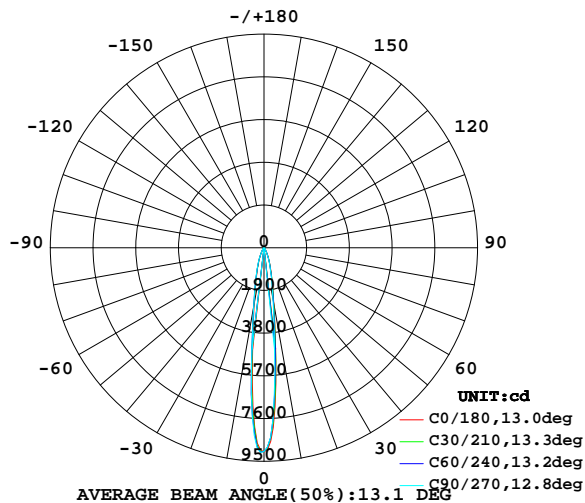
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

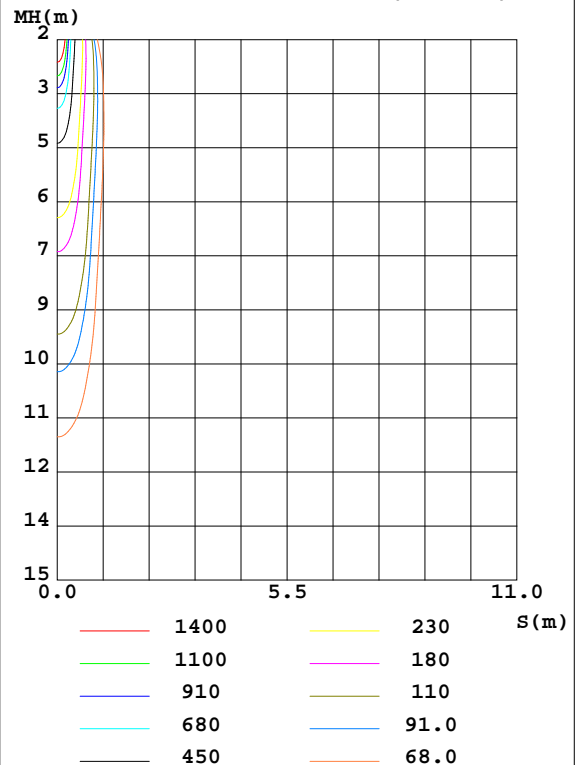
Test:U:220.6V I:0.0740A P:15.09W PF:0.9249 Lamp Flux:1224.76x1 lm		
NAME: FS6-13W-840-15D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L290mm*W45mm*H60mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.15 lm/W			
MODEL	CREE-4000K	I _{max} (cd)	9107	S/MH(C0/180)	0.22
NOMINAL POWER(W)	15.0	LOR(%)	100.0	S/MH(C90/270)	0.24
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1224.8	η UP,DN(C0-180)	0.0,48.9
NOMINAL FLUX(lm)	1224.76	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.1
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)



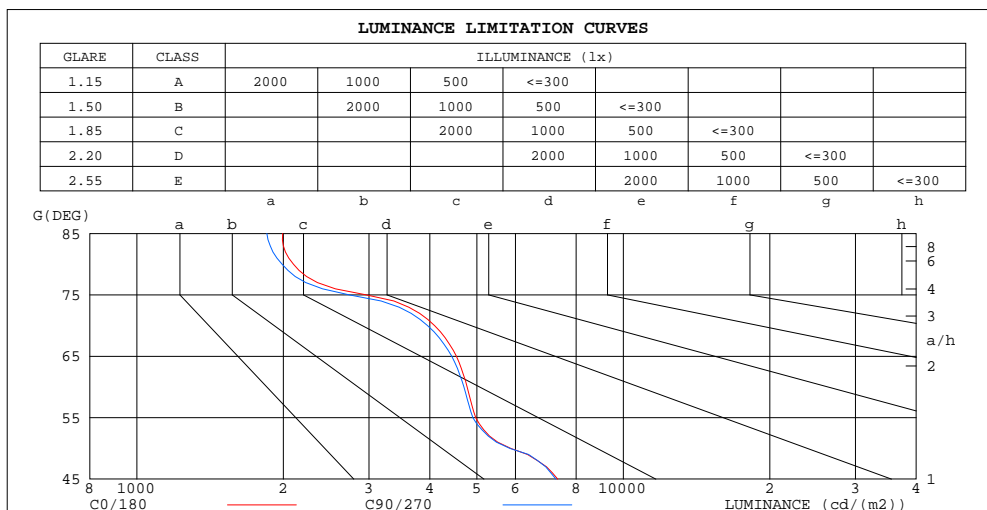
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-06-14

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	2528	2509	2316	2426	2543	2602	2654	2444	0- 10	449.3	449.3	36.7,36.7
20	748.1	730.3	697.5	722.7	744.5	763.9	800.1	741.3	10- 20	373.7	823.0	67.2,67.2
30	217.4	216.5	207.9	214.5	221.9	225.3	232.2	215.3	20- 30	193.4	1016	83,83
40	86.43	86.81	85.72	86.25	86.64	87.28	87.59	84.87	30- 40	83.60	1100	89.8,89.8
50	49.25	49.35	49.03	51.56	51.03	51.33	51.99	48.05	40- 50	52.19	1152	94.1,94.1
60	31.15	30.98	30.67	31.14	31.13	31.17	31.48	30.97	50- 60	34.17	1186	96.9,96.9
70	18.27	18.14	17.67	18.32	18.22	18.39	18.64	18.24	60- 70	24.58	1211	98.9,98.9
80	4.753	4.665	4.504	4.768	4.813	4.922	5.016	4.743	70- 80	11.22	1222	99.8,99.8
90	0.3411	0.2930	0.2733	0.3455	0.3761	0.4745	0.4876	0.3389	80- 90	2.593	1225	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		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	1994	1850
80	2098	1987
75	2964	2736
70	4094	3958
65	4539	4439
60	4774	4700
55	4975	4906
50	5871	5845
45	7331	7269

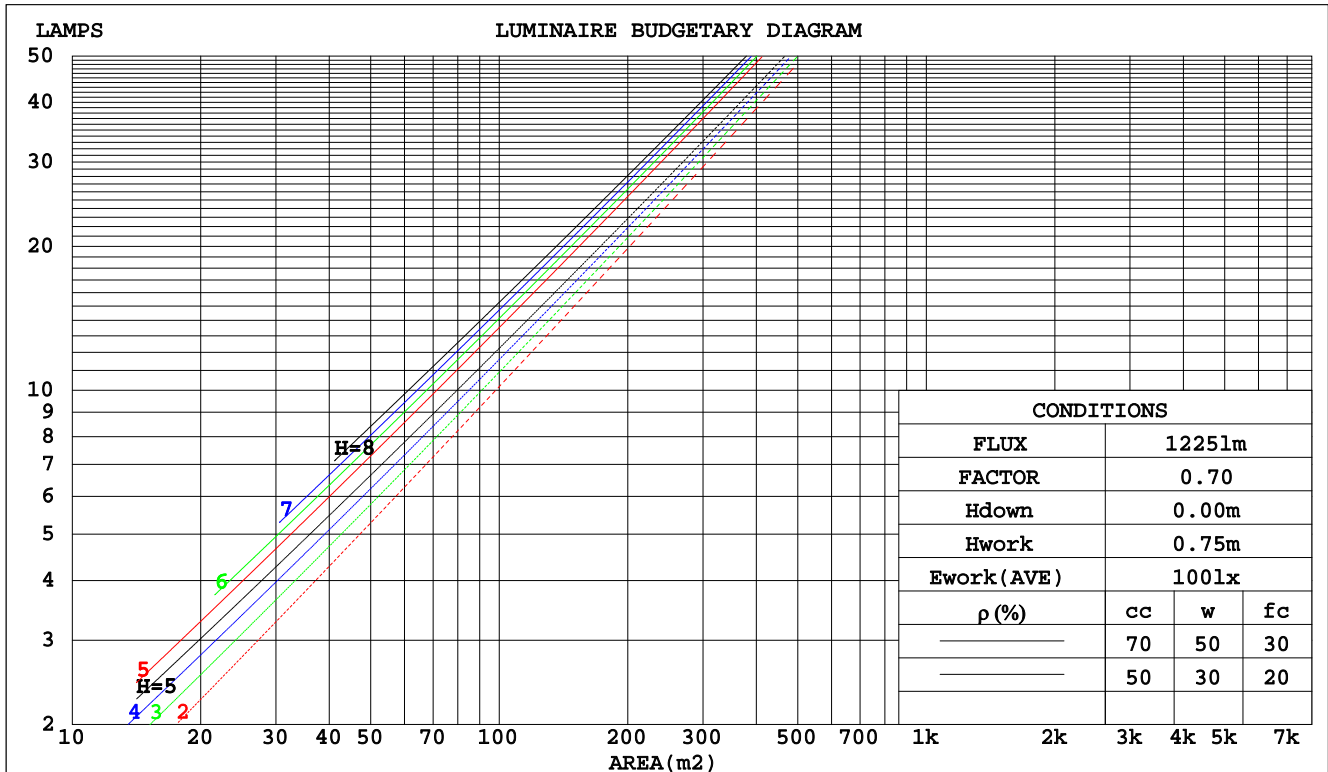
C Range: 0 - 360DEG
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 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-06-14

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.0740A P:15.09W PF:0.9249 Lamp Flux:1224.76x1 lm		
NAME: FS6-13W-840-15D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	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															



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WEC AND CCEC

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SPEC.:4000K	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	.160	.091	.029	.153	.087	.028	.141	.081	.026	.129	.075	.024	.119	.069	.022		
2.0	.149	.082	.025	.144	.079	.024	.134	.074	.023	.124	.070	.022	.115	.065	.021		
3.0	.139	.074	.022	.135	.072	.022	.126	.068	.021	.118	.065	.020	.110	.061	.019		
4.0	.130	.068	.020	.126	.066	.020	.119	.063	.019	.112	.060	.018	.105	.057	.017		
5.0	.122	.062	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017	.101	.054	.016		
6.0	.115	.057	.016	.112	.056	.016	.106	.054	.016	.101	.052	.015	.096	.051	.015		
7.0	.108	.053	.015	.106	.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		

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	.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	.069	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.127	.098	.076	.109	.085	.066	.075	.059	.047	.044	.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	.077	.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	

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:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.0740A P:15.09W PF:0.9249 Lamp Flux:1224.76x1 lm										
NAME: FS6-13W-840-15D					TYPE:Downlight			SERIAL No.:		
SPEC.:4000K					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	13.5	14.3	13.7	14.4	14.6	13.4	14.2	13.6	14.3	14.5
3H	14.6	15.3	14.8	15.5	15.7	14.5	15.2	14.7	15.4	15.6
4H	14.9	15.6	15.1	15.8	16.0	14.8	15.5	15.0	15.7	15.9
6H	15.0	15.6	15.3	15.9	16.1	14.9	15.5	15.1	15.7	16.0
8H	15.0	15.6	15.3	15.9	16.1	14.9	15.5	15.2	15.7	16.0
12H	15.0	15.6	15.3	15.9	16.1	14.9	15.5	15.2	15.7	16.0
4H 2H	13.9	14.6	14.2	14.8	15.0	13.9	14.6	14.1	14.8	15.0
3H	15.2	15.8	15.5	16.0	16.3	15.1	15.7	15.4	16.0	16.2
4H	15.5	16.1	15.9	16.4	16.7	15.4	16.0	15.8	16.3	16.6
6H	15.7	16.2	16.0	16.5	16.8	15.6	16.0	15.9	16.4	16.7
8H	15.7	16.2	16.1	16.5	16.9	15.6	16.0	16.0	16.4	16.8
12H	15.7	16.1	16.1	16.5	16.9	15.6	16.0	16.0	16.4	16.8
8H 4H	15.6	16.1	16.0	16.4	16.8	15.5	16.0	15.9	16.3	16.7
6H	15.8	16.2	16.2	16.6	17.0	15.7	16.1	16.1	16.5	16.9
8H	15.9	16.2	16.3	16.6	17.1	15.7	16.1	16.2	16.5	16.9
12H	15.9	16.2	16.4	16.7	17.1	15.8	16.1	16.3	16.5	17.0
12H 4H	15.6	16.0	16.0	16.3	16.7	15.5	15.9	15.9	16.3	16.6
6H	15.8	16.1	16.2	16.5	17.0	15.7	16.0	16.1	16.4	16.9
8H	15.9	16.1	16.3	16.6	17.1	15.7	16.0	16.2	16.5	16.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.6					+ 0.5 / - 0.6				
1.5H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				
2.0H	+ 1.0 / - 0.6					+ 1.0 / - 0.6				

CIE Pub.117 Corrected 1225 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

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:

UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.0740A P:15.09W PF:0.9249 Lamp Flux:1224.76x1 lm		
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SPEC.:4000K	DIM.: L290mm*W45mm*H60mm	
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	74	84	78	74	71
0.80	93	87	83	92	86	82	91	86	82	78
1.00	97	91	88	97	91	87	95	91	87	83
1.25	102	96	92	101	95	92	99	94	91	87
1.50	104	99	96	103	99	95	101	97	94	89
2.00	107	103	99	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	107	104	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	107	105	104	97
5.00	115	112	110	112	110	109	108	107	105	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.: L290mm*W45mm*H60mm	
MFR.:		

Conical surface Flux(90deg):

1128.1 lm

%lum = 92.1%

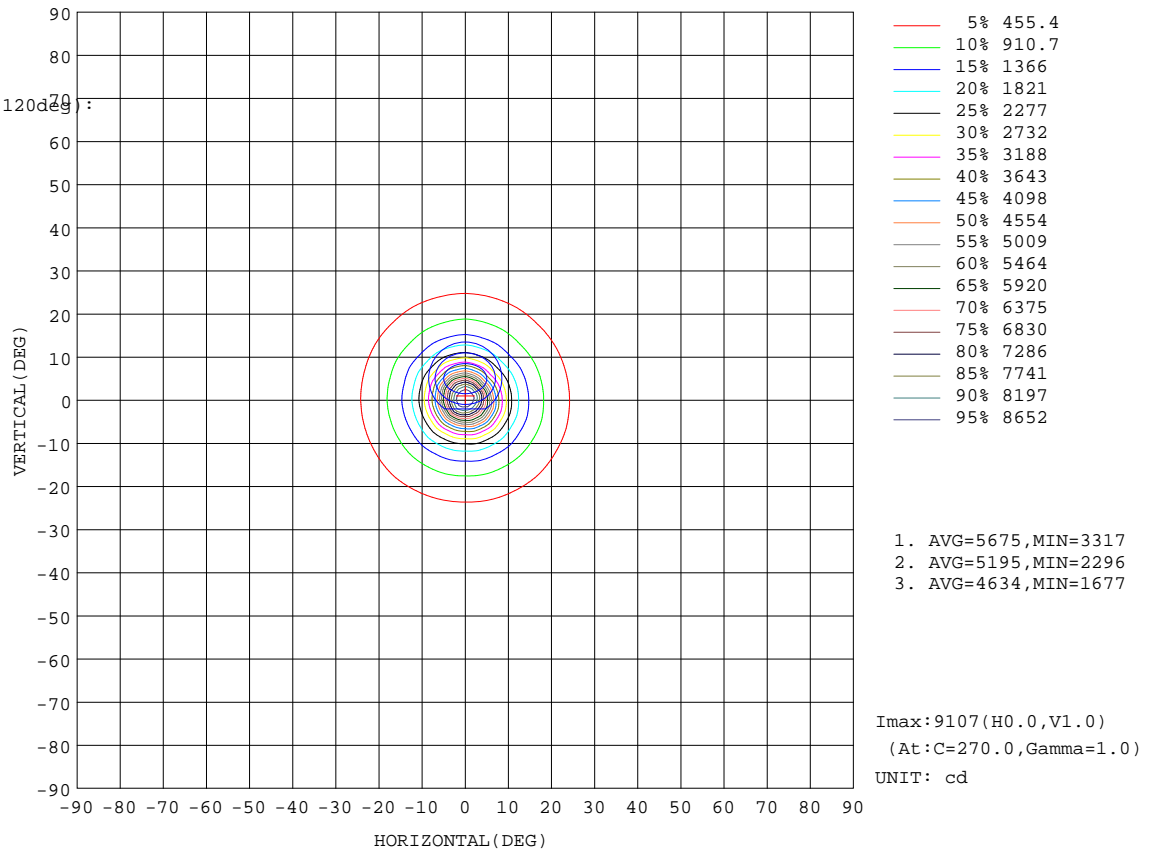
%lamp = 92.1%

Conical surface Flux(120deg):

1186.4 lm

%lum = 96.9%

%lamp = 96.9%

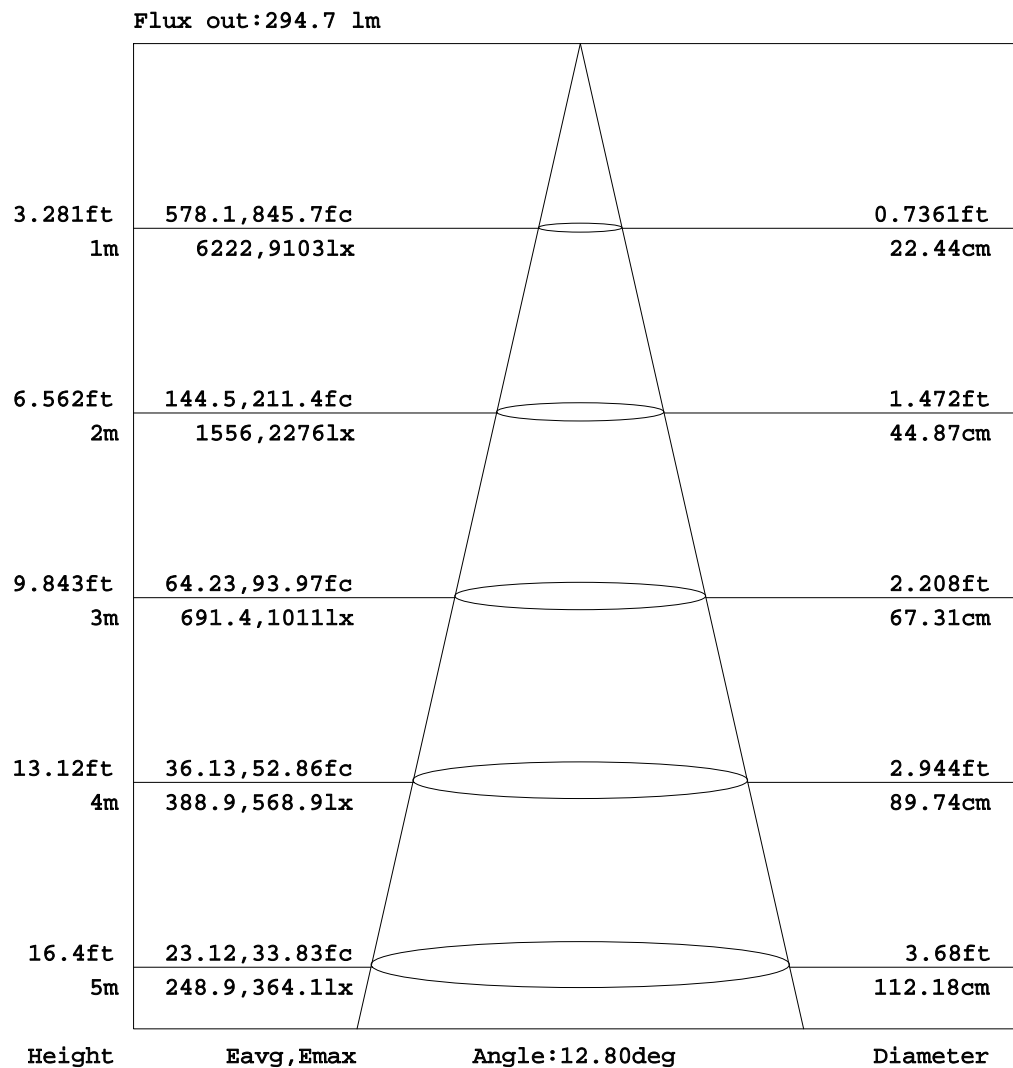


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AAI Figure

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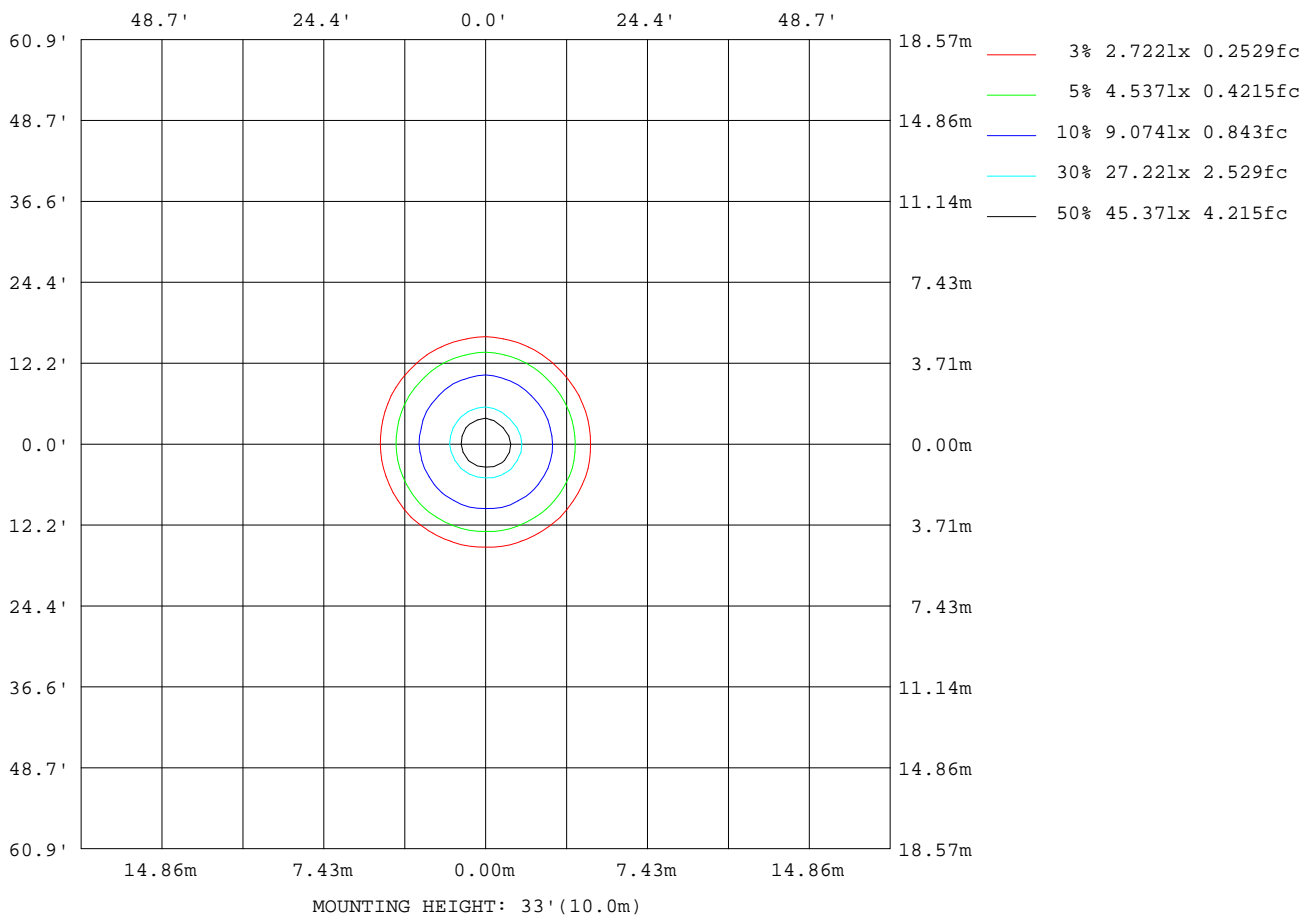
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

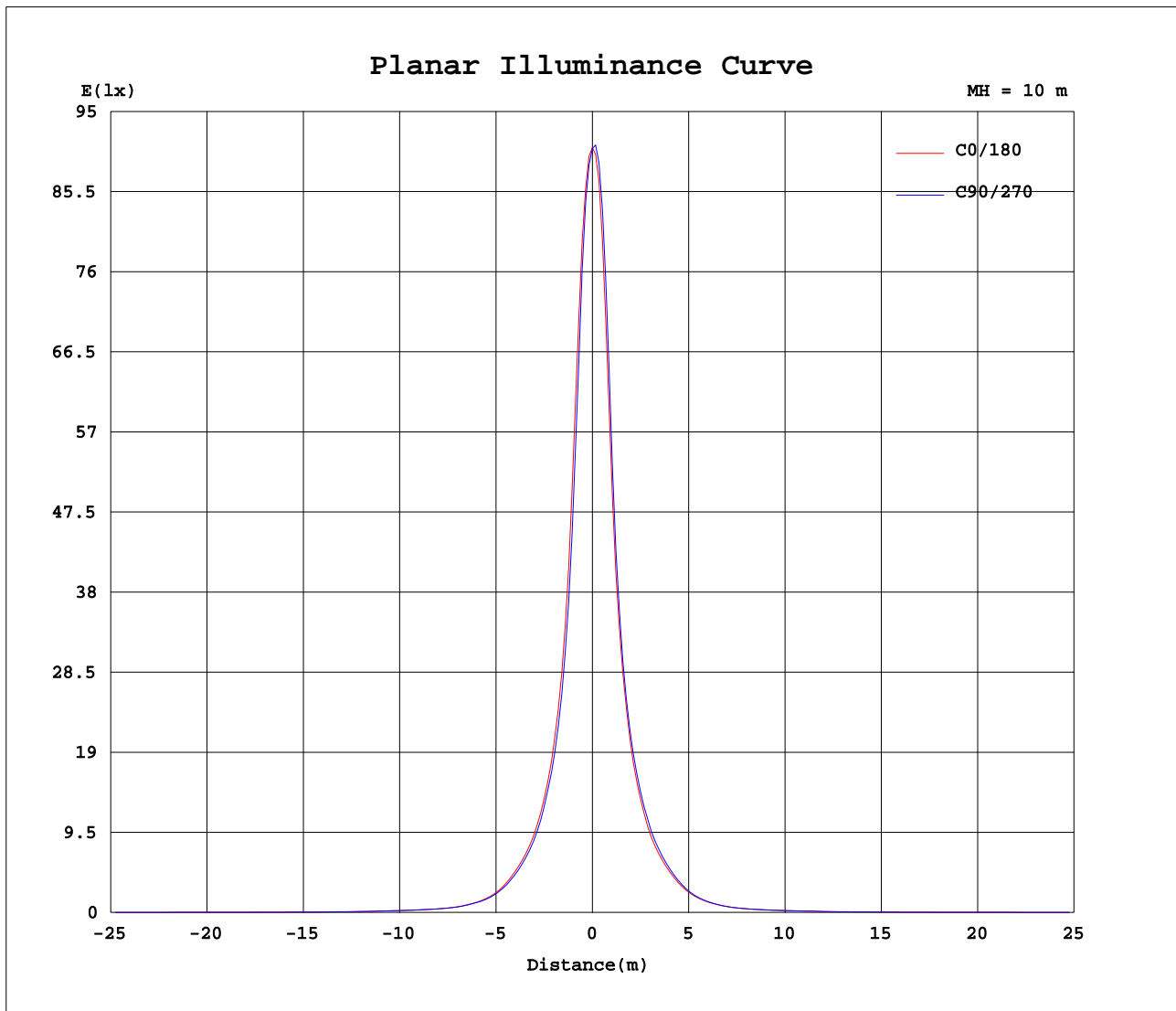
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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SPEC.:4000K	DIM.: L290mm*W45mm*H60mm	
MFR.:		

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
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MFR.:		

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
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γ Range: 0 - 90DEG
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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	9074	9074	9068	9073	9065	9071	9061	9075	9062	9085
3.0	8000	7961	7806	7798	7656	7720	7658	7844	7893	8046
6.0	5104	5214	5064	5082	4873	4804	4561	4572	4595	4776
9.0	2957	3004	2916	2936	2817	2806	2694	2733	2729	2826
12.0	1913	1931	1889	1897	1839	1825	1774	1798	1811	1860
15.0	1317	1338	1298	1312	1261	1270	1220	1249	1238	1282
18.0	928.2	936.3	915.2	910.7	887.1	884.1	866.3	874.9	875.6	892.4
21.0	670.3	677.2	660.4	656.0	637.0	635.6	622.6	628.8	633.5	649.4
24.0	465.7	468.6	456.2	455.3	442.4	441.0	432.2	437.1	440.6	454.2
27.0	313.5	315.8	308.7	308.5	299.3	299.2	295.1	299.5	300.5	309.1
30.0	217.4	219.3	215.9	216.5	210.7	211.0	207.9	210.8	210.5	214.5
33.0	156.1	157.7	155.2	155.7	152.3	153.4	152.2	155.7	156.8	158.2
36.0	114.1	115.8	115.2	115.1	113.6	113.5	112.5	112.9	113.6	114.5
39.0	91.85	92.62	92.57	92.45	91.78	91.57	91.21	91.43	91.73	91.98
42.0	77.61	78.02	77.76	77.54	77.16	77.10	76.80	76.80	76.85	76.88
45.0	67.65	67.87	67.41	67.29	67.10	67.33	67.08	67.10	66.91	66.67
48.0	58.13	58.59	57.93	58.44	57.66	59.03	58.16	58.98	58.82	58.75
51.0	45.31	45.90	45.43	45.71	45.33	45.55	45.05	45.24	45.35	46.03
54.0	38.78	38.94	38.60	38.69	38.47	38.57	38.32	38.53	38.73	38.98
57.0	34.72	34.77	34.48	34.56	34.36	34.45	34.23	34.43	34.55	34.68
60.0	31.15	31.15	30.91	30.98	30.79	30.86	30.67	30.87	30.97	31.14
63.0	27.53	27.51	27.29	27.36	27.16	27.22	27.03	27.19	27.35	27.53
66.0	23.73	23.70	23.47	23.57	23.36	23.41	23.16	23.34	23.50	23.75
69.0	19.67	19.66	19.43	19.52	19.31	19.33	19.08	19.25	19.42	19.68
72.0	15.37	15.38	15.13	15.23	14.98	15.01	14.76	14.97	15.17	15.50
75.0	10.01	10.07	9.763	9.814	9.466	9.497	9.242	9.524	9.886	10.52
78.0	6.059	6.082	5.954	5.959	5.830	5.839	5.742	5.830	5.888	6.034
81.0	4.189	4.198	4.101	4.104	4.013	4.021	3.963	4.045	4.094	4.204
84.0	2.717	2.711	2.638	2.637	2.568	2.576	2.538	2.600	2.656	2.744
87.0	1.446	1.434	1.376	1.377	1.314	1.333	1.299	1.355	1.404	1.475
90.0	0.3411	0.3170	0.3105	0.2930	0.2886	0.2733	0.2733	0.2733	0.3258	0.3455
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	9088	9079	9074	9068	9073	9065	9071	9061	9075	9085
3.0	7927	7920	7993	7945	8052	8053	8226	8234	8360	8303
6.0	4725	4813	4961	4993	5219	5228	5384	5249	5314	5108
9.0	2815	2878	2949	2960	3062	3040	3132	3072	3094	2993
12.0	1842	1858	1907	1910	1974	1963	2021	1996	2018	1954
15.0	1256	1287	1319	1306	1359	1341	1383	1380	1402	1360
18.0	887.2	899.8	923.0	924.5	948.5	946.3	974.0	976.5	993.1	967.4
21.0	647.8	655.8	670.2	669.2	688.0	684.1	703.1	705.0	719.6	699.3
24.0	452.5	459.1	468.4	469.5	480.2	479.5	494.5	496.2	501.0	491.3
27.0	307.7	311.9	320.7	319.9	327.0	325.4	335.1	333.4	338.3	329.2
30.0	213.6	216.5	221.9	222.2	226.8	225.3	230.6	228.9	232.2	225.4
33.0	156.8	157.3	159.7	159.3	162.3	160.6	163.4	161.8	163.5	159.3
36.0	113.9	113.8	115.5	115.4	116.4	115.4	115.8	115.0	115.6	113.7
39.0	91.28	91.12	92.33	92.61	93.24	92.88	93.27	93.04	93.39	92.69
42.0	76.59	76.39	77.28	77.70	78.20	78.01	78.12	77.96	78.19	77.84
45.0	66.46	66.55	67.27	67.54	67.86	67.57	67.72	67.88	68.20	68.09
48.0	58.41	58.49	59.09	58.83	59.33	58.82	59.45	59.26	59.99	59.51
51.0	45.87	46.05	46.50	46.54	47.15	46.72	47.22	46.44	46.33	45.25
54.0	38.78	38.87	39.09	39.13	39.43	39.18	39.45	39.34	39.47	38.95
57.0	34.54	34.59	34.76	34.81	34.97	34.77	34.99	34.96	35.12	34.85
60.0	30.99	31.01	31.13	31.20	31.35	31.17	31.39	31.32	31.48	31.25
63.0	27.39	27.40	27.49	27.55	27.71	27.54	27.76	27.65	27.81	27.63
66.0	23.59	23.60	23.68	23.71	23.93	23.75	24.02	23.86	24.05	23.85
69.0	19.53	19.54	19.61	19.63	19.85	19.73	19.99	19.84	20.01	19.84
72.0	15.33	15.33	15.42	15.44	15.64	15.56	15.81	15.67	15.83	15.68
75.0	10.24	10.23	10.36	10.40	10.72	10.66	10.92	10.78	10.94	10.66
78.0	5.991	6.018	6.112	6.132	6.287	6.272	6.392	6.338	6.405	6.272
81.0	4.175	4.198	4.258	4.264	4.354	4.345	4.428	4.399	4.439	4.347
84.0	2.724	2.731	2.769	2.786	2.857	2.867	2.922	2.902	2.922	2.860
87.0	1.470	1.462	1.496	1.512	1.568	1.574	1.621	1.602	1.634	1.569
90.0	0.3608	0.3455	0.3761	0.4154	0.4482	0.4745	0.4920	0.4985	0.4876	0.4548
G/C	300.0	315.0	330.0	345.0						
0.0	9062	9085	9088	9079						
3.0	8280	8152	8188	8161						
6.0	4993	4776	4931	5011						
9.0	2955	2840	2919	2946						
12.0	1931	1873	1906	1912						
15.0	1348	1294	1325	1314						
18.0	949.7	917.7	926.1	925.5						
21.0	686.6	663.9	669.0	667.0						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-06-14

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	480.1	462.4	466.9	464.1
27.0	323.5	312.2	315.1	313.1
30.0	222.4	215.3	217.7	217.1
33.0	156.8	152.8	155.1	155.3
36.0	112.3	110.7	111.4	112.7
39.0	91.55	90.19	90.24	91.19
42.0	77.08	76.31	76.22	77.00
45.0	67.46	66.62	66.43	67.19
48.0	59.33	58.38	58.28	58.05
51.0	44.96	44.22	44.55	44.83
54.0	38.84	38.36	38.59	38.67
57.0	34.82	34.48	34.65	34.65
60.0	31.20	30.97	31.11	31.11
63.0	27.59	27.38	27.53	27.52
66.0	23.87	23.62	23.82	23.76
69.0	19.83	19.59	19.76	19.71
72.0	15.62	15.36	15.48	15.43
75.0	10.50	10.04	10.27	10.15
78.0	6.189	6.031	6.097	6.107
81.0	4.292	4.178	4.223	4.224
84.0	2.795	2.716	2.741	2.751
87.0	1.516	1.442	1.452	1.466
90.0	0.3804	0.3389	0.3258	0.3542

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-14

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: