
LED Downlight FUSION Series LE-
FS6-13W-940-30D



Light Output Ratio:	100.0%	
Luminaire Power:	14.59 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-05-16

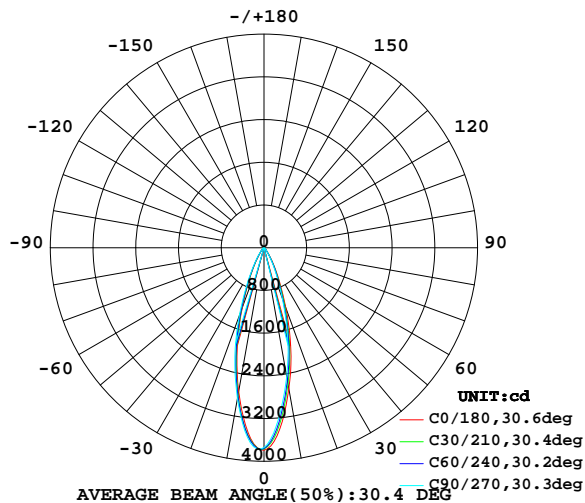
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

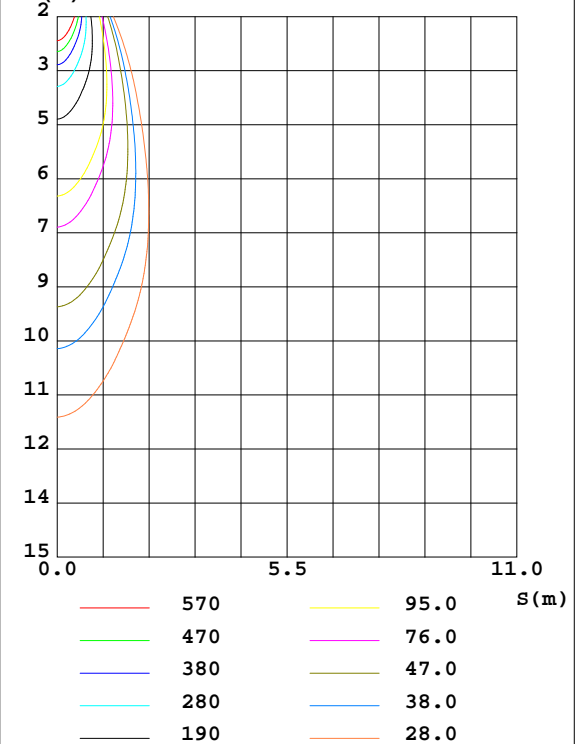
Test:U:220.7V I:0.0682A P:14.59W PF:0.9695 Lamp Flux:1333.55x1 lm		
NAME: FS6-13W-940-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L290mm*W45mm*H60mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 91.41 lm/W			
MODEL	CREE-4000K	I _{max} (cd)	3791	S/MH(C0/180)	0.51
NOMINAL POWER(W)	15.0	LOR(%)	100.0	S/MH(C90/270)	0.54
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1333.5	η UP,DN(C0-180)	0.0,46.8
NOMINAL FLUX(lm)	1333.55	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,53.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



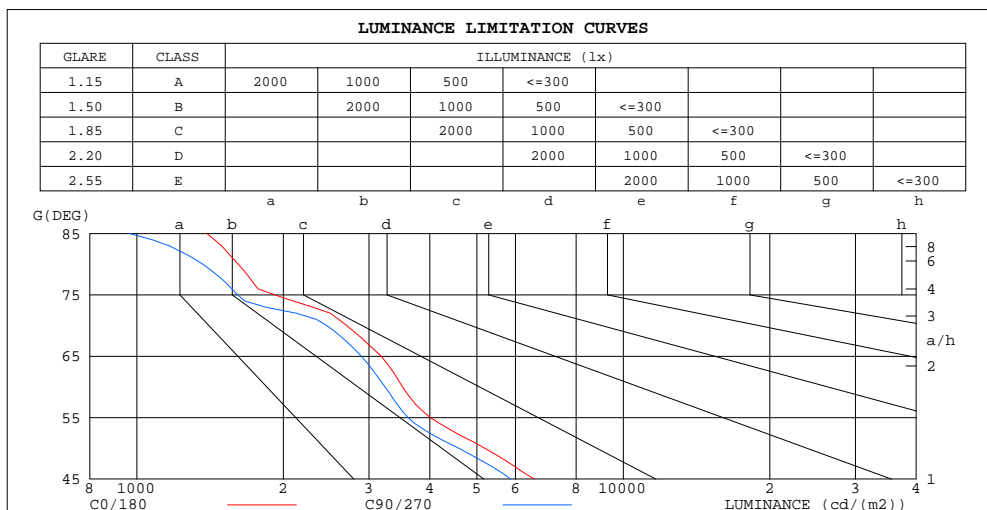
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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

**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	2682	2571	2451	2512	2736	2786	2869	2771	0- 10	299.9	299.9	22.5,22.5
20	1198	1090	1007	1042	1189	1226	1351	1266	10- 20	518.6	818.5	61.4,61.4
30	349.7	317.5	285.0	290.4	331.8	349.0	394.4	376.0	20- 30	302.1	1121	84,84
40	87.91	79.95	76.29	81.78	93.72	96.67	102.7	95.78	30- 40	110.9	1231	92.3,92.3
50	43.60	40.76	38.57	41.25	45.42	46.86	47.53	45.53	40- 50	47.95	1279	95.9,95.9
60	22.96	21.79	21.11	22.19	23.93	23.57	24.16	23.41	50- 60	27.73	1307	98,98
70	12.05	11.44	10.98	11.61	13.11	12.72	13.11	12.60	60- 70	17.21	1324	99.3,99.3
80	3.661	3.418	3.096	3.291	3.701	3.847	4.121	3.933	70- 80	7.453	1332	99.9,99.9
90	0.1115	0.0787	0.0809	0.0765	0.0656	0.1334	0.2077	0.2055	80- 90	1.779	1334	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		



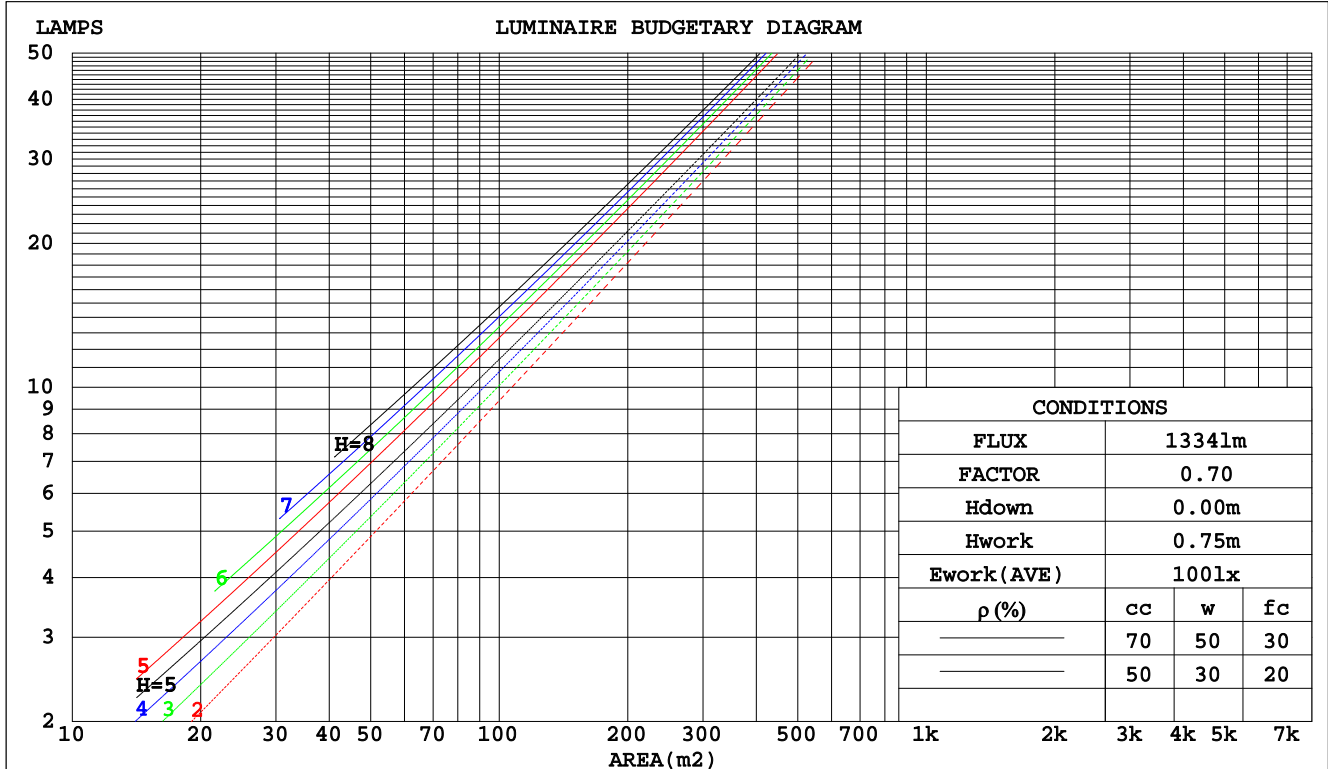
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0682A P:14.59W PF:0.9695 Lamp Flux:1333.55x1 lm		
NAME: FS6-13W-940-30D	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						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	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.95
2.0	1.05	1.01	.98	1.03	.90	.97	.90	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.94	.91	.98	.93	.90	.95	.92	.89	.93	.90	.87	.90	.88	.86	.85
4.0	.94	.89	.85	.93	.88	.85	.90	.87	.84	.89	.85	.83	.87	.84	.82	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.85	.81	.79	.83	.80	.78	.77
6.0	.85	.80	.76	.84	.79	.76	.83	.78	.75	.81	.78	.75	.80	.77	.74	.73
7.0	.81	.76	.72	.80	.76	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.70
8.0	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
9.0	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.69	.66	.72	.68	.65	.64
10.0	.72	.67	.64	.71	.67	.63	.71	.66	.63	.70	.66	.63	.69	.66	.63	.62



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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	.164	.093	.030	.157	.090	.028	.145	.083	.027	.133	.077	.025	.123	.071	.023		
2.0	.154	.085	.026	.149	.082	.025	.138	.077	.024	.129	.072	.023	.120	.068	.021		
3.0	.145	.077	.023	.140	.075	.023	.131	.071	.022	.123	.068	.021	.116	.064	.020		
4.0	.137	.071	.021	.133	.069	.020	.125	.066	.020	.118	.063	.019	.111	.061	.018		
5.0	.129	.066	.019	.125	.064	.019	.119	.062	.018	.113	.060	.018	.107	.057	.017		
6.0	.122	.061	.018	.119	.060	.017	.113	.058	.017	.108	.056	.017	.103	.054	.016		
7.0	.116	.057	.016	.113	.057	.016	.108	.055	.016	.104	.053	.015	.099	.052	.015		
8.0	.111	.054	.015	.108	.053	.015	.104	.052	.015	.100	.051	.015	.096	.049	.014		
9.0	.106	.051	.014	.104	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.014		
10.0	.101	.048	.013	.099	.048	.013	.096	.047	.013	.092	.046	.013	.089	.045	.013		

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	.146	.135	.126	.100	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.092	.120	.098	.080	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.129	.098	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.119	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.111	.077	.052	.096	.067	.046	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.104	.069	.044	.090	.060	.039	.062	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.098	.063	.038	.084	.054	.033	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.093	.057	.033	.080	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.088	.053	.029	.076	.046	.025	.052	.032	.018	.031	.019	.011	.010	.006	.004	

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 γ Interval: 1.0DEG
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 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0682A P:14.59W PF:0.9695 Lamp Flux:1333.55x1 lm										
NAME: FS6-13W-940-30D					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	12.5	13.3	12.7	13.4	13.6	12.0	12.8	12.2	12.9	13.1
3H	13.0	13.8	13.3	14.0	14.2	12.6	13.3	12.8	13.5	13.7
4H	13.2	13.9	13.4	14.1	14.3	12.7	13.4	12.9	13.6	13.8
6H	13.2	13.9	13.5	14.2	14.4	12.7	13.4	13.0	13.6	13.9
8H	13.3	13.9	13.6	14.2	14.4	12.7	13.4	13.0	13.6	13.9
12H	13.3	13.9	13.6	14.1	14.4	12.7	13.3	13.0	13.6	13.9
4H 2H	12.6	13.3	12.9	13.6	13.8	12.2	12.9	12.4	13.1	13.3
3H	13.3	14.0	13.6	14.2	14.5	12.9	13.5	13.2	13.8	14.1
4H	13.5	14.1	13.9	14.4	14.7	13.1	13.6	13.4	13.9	14.2
6H	13.6	14.2	14.0	14.5	14.8	13.2	13.7	13.5	14.0	14.3
8H	13.7	14.2	14.1	14.5	14.9	13.2	13.7	13.6	14.0	14.4
12H	13.7	14.1	14.1	14.5	14.9	13.2	13.6	13.6	14.0	14.4
8H 4H	13.5	14.0	13.9	14.3	14.7	13.1	13.5	13.5	13.9	14.3
6H	13.7	14.1	14.1	14.5	14.9	13.2	13.6	13.7	14.0	14.4
8H	13.8	14.1	14.2	14.5	15.0	13.3	13.6	13.7	14.0	14.5
12H	13.8	14.1	14.3	14.5	15.0	13.3	13.6	13.8	14.0	14.5
12H 4H	13.5	13.9	13.9	14.3	14.7	13.0	13.5	13.5	13.8	14.2
6H	13.7	14.0	14.1	14.4	14.9	13.2	13.6	13.7	14.0	14.4
8H	13.8	14.0	14.2	14.5	15.0	13.3	13.6	13.8	14.0	14.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 1.0					+ 0.8 / - 1.1				
1.5H	+ 1.7 / - 0.9					+ 1.1 / - 0.8				
2.0H	+ 1.5 / - 0.8					+ 1.5 / - 0.8				

CIE Pub.117 Corrected 1334 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.0)

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 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:220.7V I:0.0682A P:14.59W PF:0.9695 Lamp Flux:1333.55x1 lm		
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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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	77	86	80	76	86	80	76	73
0.80	94	88	84	94	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	104	97
5.00	115	113	111	113	111	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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MFR.:		

Conical surface Flux(90deg):

1258.4 lm

%lum = 94.4%

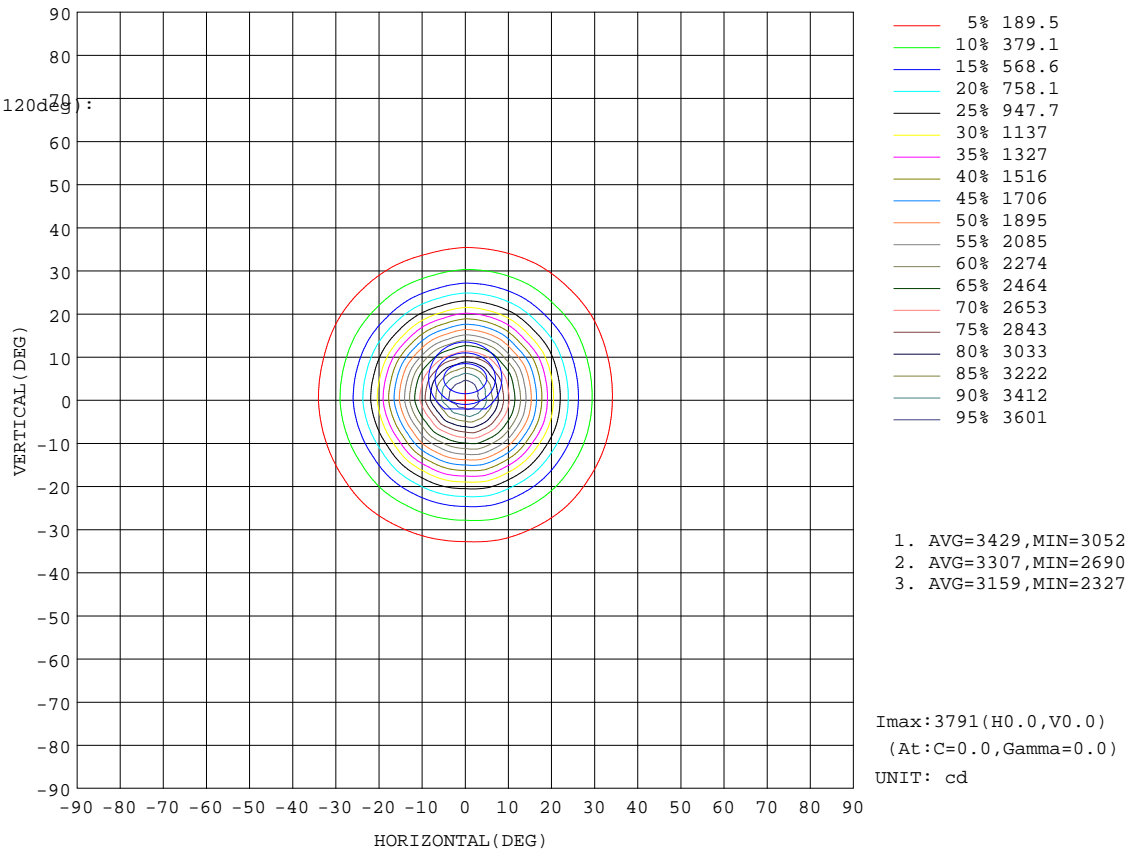
%lamp = 94.4%

Conical surface Flux(120deg):

1307.1 lm

%lum = 98.0%

%lamp = 98.0%

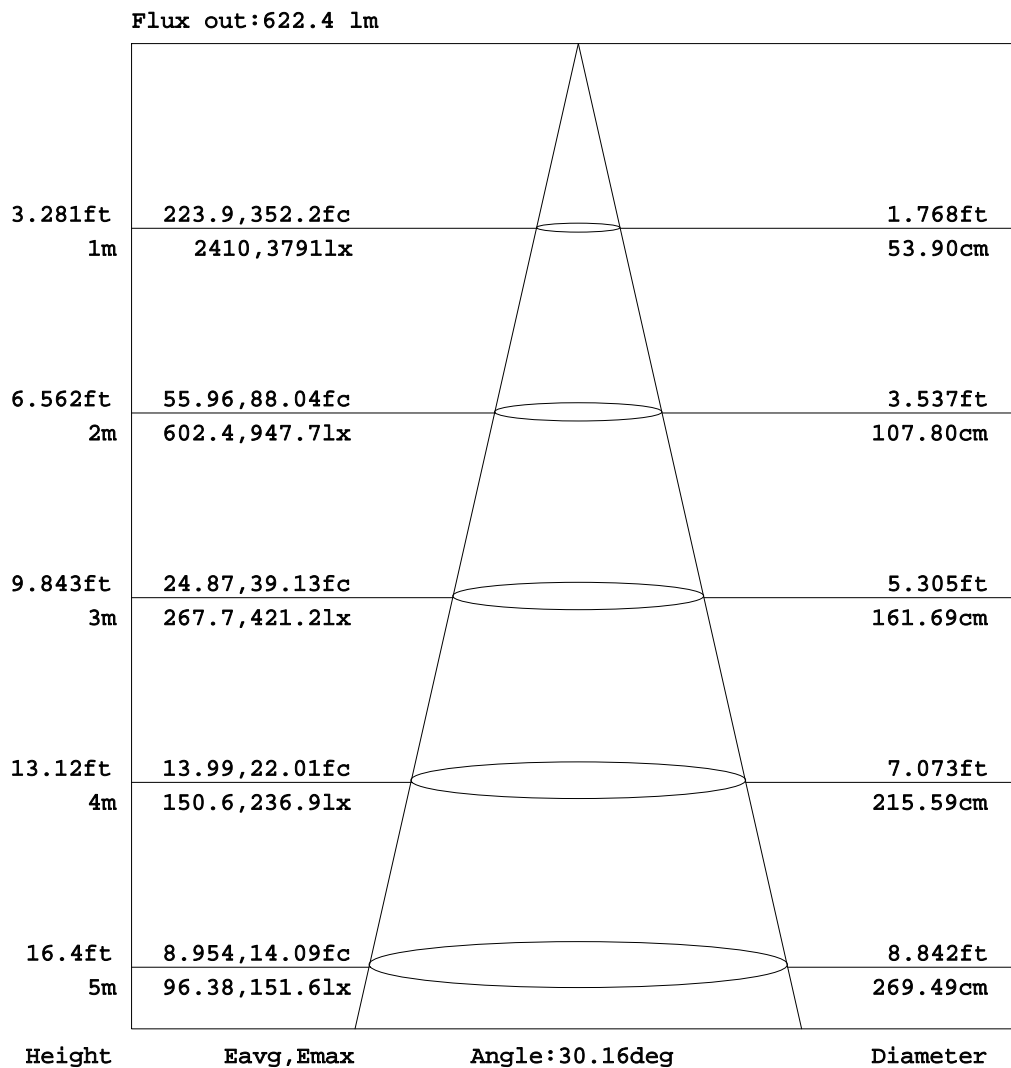


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AAI Figure

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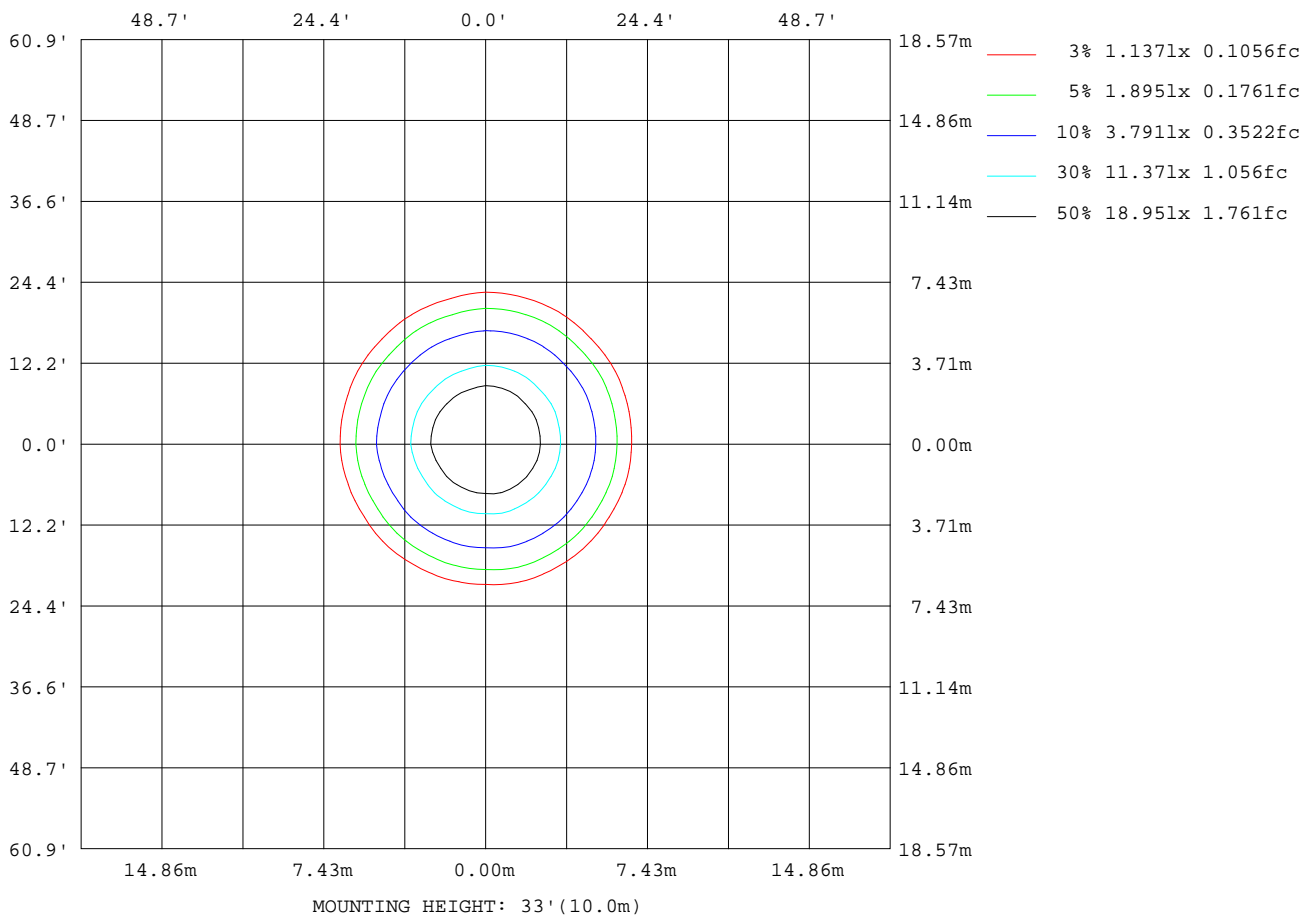
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

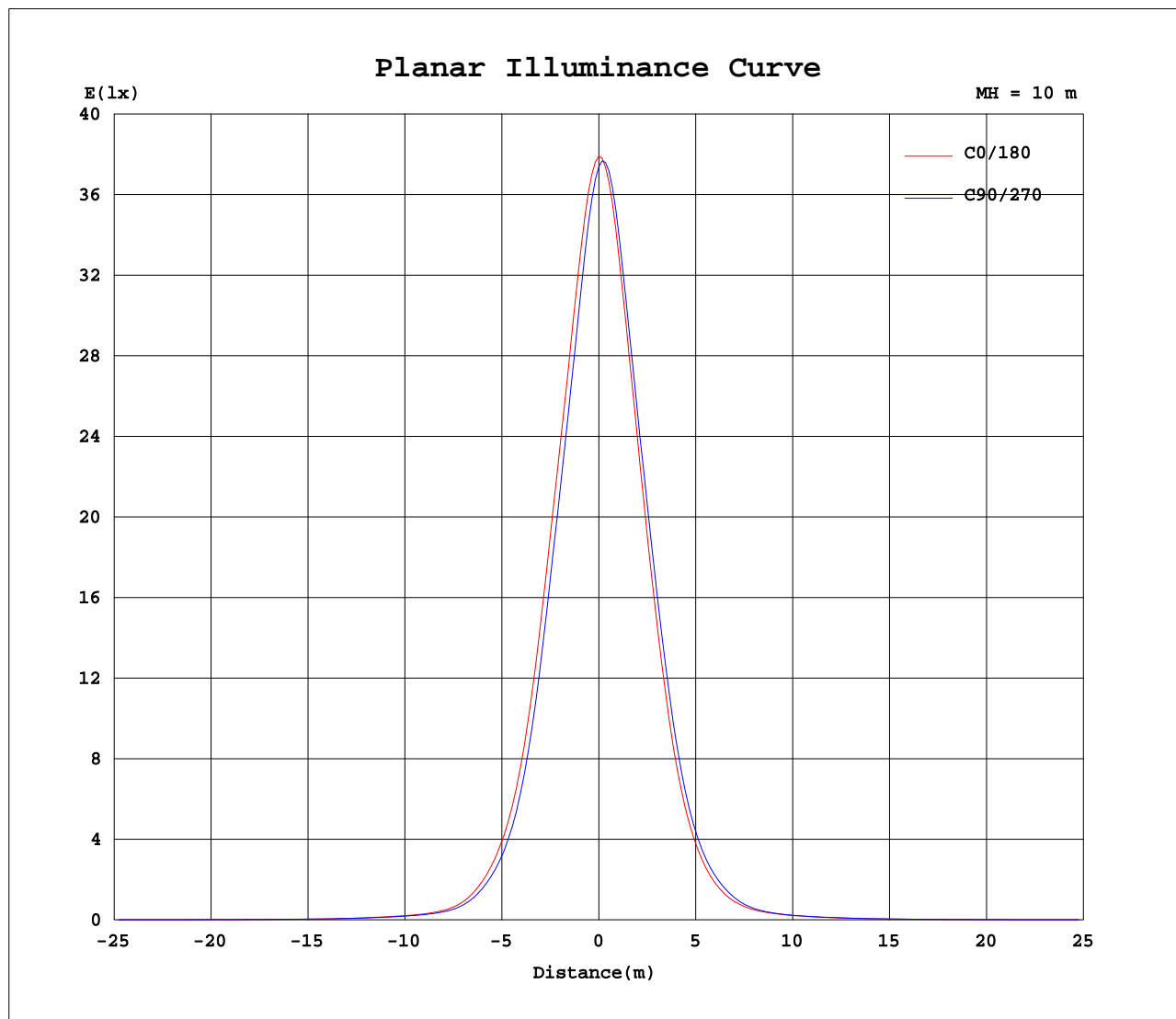
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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UNIT: cd

[illegible]

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Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
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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	3791	3782	3771	3767	3759	3758	3739	3725	3720	3725
3.0	3633	3609	3571	3560	3529	3532	3478	3474	3485	3533
6.0	3273	3243	3189	3172	3123	3115	3050	3048	3064	3133
9.0	2827	2797	2738	2719	2669	2669	2599	2593	2598	2666
12.0	2394	2363	2305	2280	2238	2226	2158	2158	2156	2206
15.0	1941	1913	1844	1822	1778	1774	1708	1712	1709	1759
18.0	1480	1452	1384	1369	1324	1330	1264	1283	1270	1317
21.0	1067	1043	991.3	969.3	935.9	938.7	891.9	898.1	892.4	922.5
24.0	746.6	731.1	693.6	675.5	649.6	647.6	612.0	613.8	612.5	634.1
27.0	519.3	502.4	476.1	466.8	450.6	446.5	421.1	421.3	415.8	431.1
30.0	349.7	339.7	322.8	317.5	306.6	305.2	285.0	284.5	281.3	290.4
33.0	225.0	218.7	205.4	203.4	196.5	196.2	183.0	183.9	184.2	191.8
36.0	141.3	139.0	128.4	129.0	121.9	125.6	117.2	118.5	120.6	128.6
39.0	97.29	93.97	89.40	87.55	84.82	85.52	83.02	84.34	86.12	89.76
42.0	74.32	72.00	69.44	68.41	67.12	66.75	65.70	66.46	67.89	70.34
45.0	60.51	58.79	56.92	56.64	55.60	55.44	54.16	54.67	55.33	57.58
48.0	50.02	48.93	47.49	47.28	46.28	46.08	44.60	45.25	45.73	47.51
51.0	40.48	39.53	38.08	37.55	36.58	36.75	35.56	36.06	36.56	38.13
54.0	32.25	31.16	30.03	29.76	29.10	29.21	28.62	29.06	29.09	30.15
57.0	26.70	25.86	25.31	25.17	24.73	24.71	24.47	24.97	24.93	25.67
60.0	22.96	22.47	21.90	21.79	21.46	21.46	21.11	21.45	21.54	22.19
63.0	19.70	19.36	18.79	18.59	18.34	18.37	17.99	18.12	18.21	18.77
66.0	16.36	16.09	15.63	15.48	15.20	15.41	14.96	15.03	15.11	15.56
69.0	13.08	12.89	12.59	12.44	12.18	12.47	11.95	12.06	12.11	12.60
72.0	10.08	9.838	9.560	9.442	9.292	9.335	8.595	8.762	8.801	9.353
75.0	6.493	6.157	5.865	5.821	5.683	5.681	5.444	5.493	5.508	5.712
78.0	4.604	4.551	4.383	4.347	4.216	4.207	3.998	4.028	4.046	4.207
81.0	3.212	3.158	3.020	2.987	2.871	2.858	2.665	2.690	2.707	2.847
84.0	1.969	1.918	1.796	1.754	1.656	1.641	1.465	1.485	1.505	1.630
87.0	0.8439	0.7933	0.6885	0.6469	0.5615	0.5509	0.4343	0.4529	0.4866	0.5883
90.0	0.1115	0.0940	0.0831	0.0787	0.0765	0.0765	0.0809	0.0765	0.0787	0.0765
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	3712	3715	3782	3771	3767	3759	3758	3739	3725	3725
3.0	3529	3571	3676	3675	3691	3690	3708	3705	3732	3715
6.0	3138	3209	3335	3355	3398	3393	3407	3394	3446	3428
9.0	2676	2764	2889	2905	2958	2949	2973	2955	3017	3009
12.0	2217	2311	2418	2431	2476	2466	2504	2498	2562	2551
15.0	1761	1840	1939	1953	1997	1991	2034	2034	2110	2096
18.0	1316	1391	1480	1488	1528	1523	1562	1572	1649	1640
21.0	925.0	988.8	1059	1064	1091	1092	1128	1139	1206	1197
24.0	632.3	678.4	733.8	735.4	754.6	756.1	785.7	792.6	844.1	840.5
27.0	432.0	461.9	499.0	498.3	513.0	516.0	535.0	544.1	579.0	577.0
30.0	290.1	309.4	331.8	335.2	346.7	349.0	365.2	370.1	394.4	394.5
33.0	191.9	203.8	219.1	220.4	231.3	232.5	245.9	249.4	266.6	264.6
36.0	127.7	137.3	146.5	146.5	152.6	152.9	160.5	161.2	173.7	170.6
39.0	91.61	96.83	103.0	104.1	107.3	106.7	108.6	109.4	114.7	113.6
42.0	71.77	74.61	79.20	79.70	81.50	81.27	81.23	81.10	84.06	82.61
45.0	58.69	60.72	63.58	64.27	65.44	65.20	65.38	64.75	66.06	65.01
48.0	48.53	50.14	52.16	52.67	54.01	53.87	54.10	53.59	54.27	53.55
51.0	38.87	40.44	42.25	42.12	43.24	43.33	43.79	43.35	44.21	43.52
54.0	30.85	32.14	33.46	33.06	33.69	33.49	34.28	34.10	34.96	34.23
57.0	26.20	27.04	27.65	27.41	27.33	27.26	27.88	27.83	28.30	27.92
60.0	22.64	23.35	23.93	23.67	23.66	23.57	24.01	23.68	24.16	23.78
63.0	19.13	19.88	20.64	20.38	20.32	20.09	20.52	20.31	20.74	20.26
66.0	15.91	16.61	17.38	17.22	17.04	16.88	17.24	17.16	17.31	16.86
69.0	12.84	13.53	14.16	13.93	13.80	13.76	14.04	13.92	14.14	13.72
72.0	9.454	10.12	10.87	10.66	10.66	10.66	10.88	10.83	11.08	10.78
75.0	5.708	5.965	6.659	6.622	6.758	6.684	6.752	6.677	7.203	7.121
78.0	4.214	4.404	4.661	4.672	4.794	4.799	4.908	4.895	5.089	5.059
81.0	2.858	3.018	3.240	3.259	3.375	3.384	3.480	3.471	3.659	3.640
84.0	1.638	1.785	1.952	1.983	2.085	2.114	2.193	2.208	2.363	2.363
87.0	0.5917	0.6954	0.8079	0.8451	0.9388	0.9741	1.044	1.070	1.210	1.221
90.0	0.0831	0.0809	0.0656	0.0962	0.1246	0.1334	0.1356	0.1552	0.2077	0.2405
G/C	300.0	315.0	330.0	345.0						
0.0	3720	3725	3712	3715						
3.0	3698	3661	3640	3595						
6.0	3409	3343	3325	3258						
9.0	2992	2921	2910	2838						
12.0	2541	2469	2464	2405						
15.0	2087	2022	2023	1964						
18.0	1627	1562	1568	1505						
21.0	1187	1136	1145	1091						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-05-16

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	833.9	793.2	798.3	762.9
27.0	574.4	553.8	553.3	532.5
30.0	393.9	376.0	379.4	359.8
33.0	261.7	248.0	246.1	232.1
36.0	168.9	157.8	156.6	145.6
39.0	112.0	107.2	105.3	99.53
42.0	81.86	78.89	78.52	75.52
45.0	64.38	62.99	62.82	61.23
48.0	53.32	52.02	52.14	50.58
51.0	43.32	42.32	42.48	41.03
54.0	34.25	33.56	33.82	32.82
57.0	27.98	27.62	27.85	27.17
60.0	23.71	23.41	23.62	23.16
63.0	20.00	19.90	20.00	19.75
66.0	16.74	16.67	16.80	16.46
69.0	13.69	13.62	13.78	13.38
72.0	10.79	10.61	10.76	10.44
75.0	7.179	7.102	7.108	6.801
78.0	5.039	4.865	4.823	4.683
81.0	3.622	3.478	3.436	3.301
84.0	2.341	2.221	2.177	2.064
87.0	1.195	1.090	1.039	0.9456
90.0	0.2208	0.2055	0.1815	0.1552

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-05-16

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: