

LED Downlight CATO Series C8F-20S-840



Light Output Ratio:	100.0%	
Luminaire Power:	21.53 W	
SHR Nominal:	1.00	Calculated using the TM5
SHR Maximum:	1.15	fine grid method.

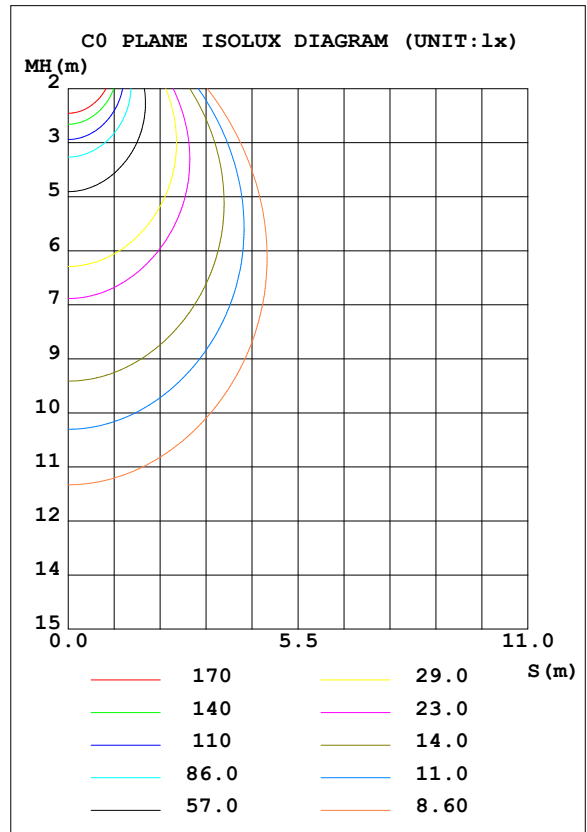
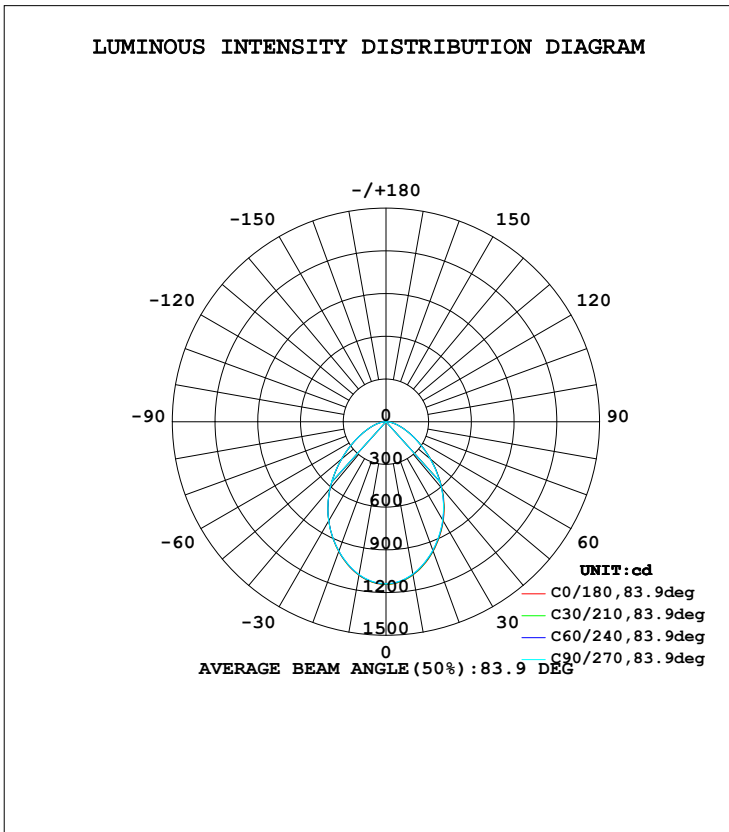
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Cao Chengpei  
 Test Date: 2014-09-02

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 53.0%  
 Test Distance: 5.780m [K=1.0000]  
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.3V I:0.1019A P:21.53W PF:0.9593 Lamp Flux:2196.96x1 lm		
NAME: C8F-20S-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.04 lm/W			
MODEL	SAMSUNG-4000K	I <sub>max</sub> (cd)	1143	S/MH (C0/180)	1.08
NOMINAL POWER (W)	22	LOR (%)	100.0	S/MH (C90/270)	1.08
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2197.0	η UP, DN (C0-180)	0.0, 49.9
NOMINAL FLUX (lm)	2196.96	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.15



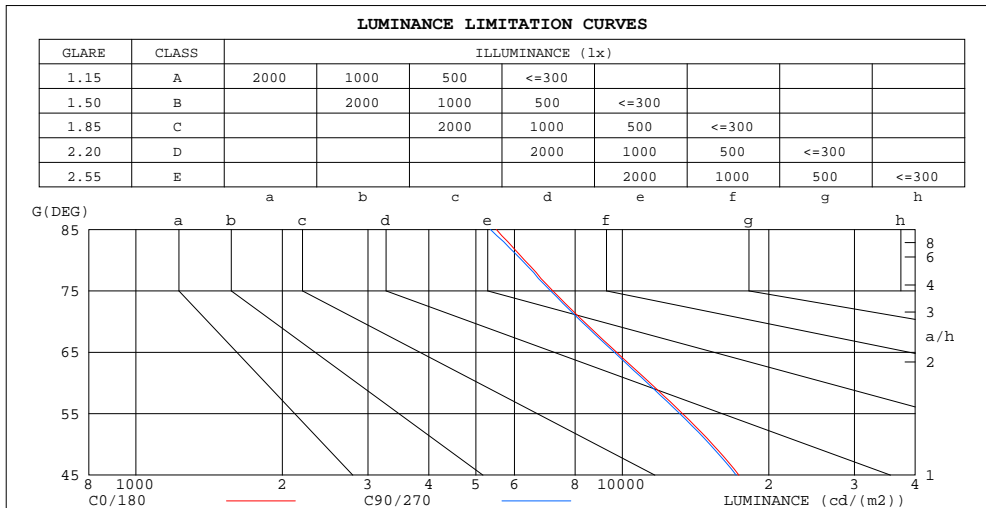
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 Remarks:

**ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES**

**ZONAL FLUX DIAGRAM:**

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	1093	1090	1086	1089	1095	1090	1090	1089	0- 10	106.4	106.4	4.84,4.84
20	968.4	965.2	960.4	963.4	969.9	966.1	967.2	966.8	10- 20	290.8	397.2	18.1,18.1
30	804.5	801.6	796.5	797.8	804.7	801.8	805.1	804.9	20- 30	408.1	805.4	36.7,36.7
40	612.1	610.8	604.9	605.1	611.1	608.1	612.5	612.8	30- 40	442.3	1248	56.8,56.8
50	409.4	409.4	404.0	403.8	407.5	404.0	409.0	409.3	40- 50	391.0	1639	74.6,74.6
60	236.8	237.3	233.7	233.4	234.9	232.0	236.4	236.3	50- 60	282.9	1922	87.5,87.5
70	118.4	119.6	117.1	117.1	117.3	115.6	118.6	118.4	60- 70	170.0	2091	95.2,95.2
80	45.40	45.81	44.80	44.60	44.73	44.14	45.43	45.69	70- 80	82.76	2174	99,99
90	0.3639	0.2828	0.2724	0.2703	0.2392	0.2558	0.4700	0.7923	80- 90	22.71	2197	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(DEG)	C0/180	C90/270
85	5509	5355
80	6296	6213
75	7201	7123
70	8336	8247
65	9732	9630
60	11404	11257
55	13301	13123
50	15338	15134
45	17357	17138

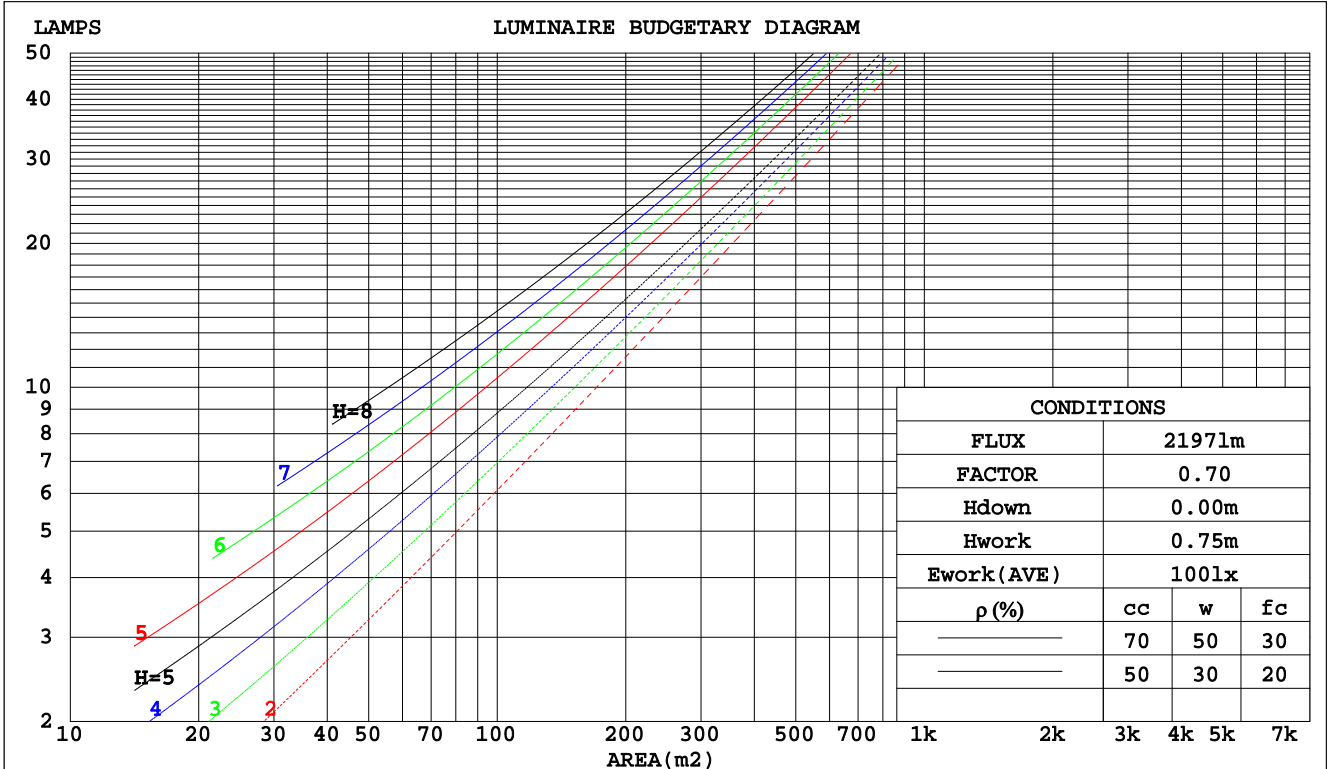
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 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:53.0%  
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 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.3V I:0.1019A P:21.53W PF:0.9593 Lamp Flux:2196.96x1 lm		
NAME: C8F-20S-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.06	1.03	.99	1.04	1.01	.98	.90	.97	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.77	.71	.83	.76	.71	.80	.74	.70	.77	.73	.68	.75	.71	.67	.65
4.0	.76	.68	.62	.75	.67	.62	.72	.66	.61	.70	.64	.60	.68	.63	.59	.57
5.0	.69	.61	.55	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.63	.54	.48	.62	.54	.48	.60	.53	.48	.58	.52	.47	.57	.51	.47	.45
7.0	.57	.49	.43	.56	.49	.43	.55	.48	.43	.54	.47	.43	.52	.47	.42	.41
8.0	.53	.45	.39	.52	.44	.39	.51	.44	.39	.49	.43	.39	.48	.43	.38	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
10.0	.45	.38	.33	.45	.37	.33	.44	.37	.33	.43	.37	.32	.42	.36	.32	.31



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WEC AND CCEC

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ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.264	.150	.048	.257	.147	.047	.244	.140	.045	.232	.134	.043	.221	.128	.041	
2.0	.253	.138	.042	.247	.136	.042	.235	.131	.041	.225	.126	.039	.215	.122	.038	
3.0	.237	.126	.038	.232	.124	.037	.222	.120	.037	.213	.117	.036	.204	.113	.035	
4.0	.222	.115	.034	.217	.114	.034	.208	.111	.033	.200	.108	.032	.193	.105	.032	
5.0	.207	.106	.031	.203	.104	.030	.195	.102	.030	.188	.099	.030	.181	.097	.029	
6.0	.194	.097	.028	.191	.096	.028	.184	.094	.027	.177	.092	.027	.171	.090	.027	
7.0	.182	.090	.026	.179	.089	.025	.173	.087	.025	.167	.086	.025	.162	.084	.025	
8.0	.171	.084	.024	.169	.083	.023	.163	.081	.023	.158	.080	.023	.153	.079	.023	
9.0	.162	.078	.022	.159	.078	.022	.154	.076	.022	.149	.075	.021	.145	.074	.021	
10.0	.153	.073	.020	.151	.073	.020	.146	.072	.020	.142	.070	.020	.138	.069	.020	

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ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.158	.114	.079	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.062	.129	.087	.054	.089	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.143	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.039	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

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 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:53.0%  
 Test Distance:5.780m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

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SPEC.:4000K	DIM.: φ230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

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	21.3	22.6	21.5	22.8	23.0	21.2	22.6	21.5	22.8	23.0
3H	22.1	23.3	22.4	23.6	23.8	22.0	23.3	22.3	23.5	23.7
4H	22.4	23.6	22.7	23.8	24.0	22.3	23.5	22.6	23.7	24.0
6H	22.6	23.7	22.9	23.9	24.2	22.5	23.6	22.8	23.9	24.2
8H	22.6	23.7	23.0	24.0	24.3	22.6	23.6	22.9	23.9	24.2
12H	22.7	23.7	23.0	24.0	24.3	22.6	23.6	22.9	23.9	24.2
4H 2H	21.6	22.8	21.9	23.0	23.3	21.6	22.7	21.9	23.0	23.2
3H	22.6	23.6	22.9	23.9	24.2	22.5	23.6	22.9	23.9	24.1
4H	23.0	23.9	23.3	24.2	24.6	22.9	23.9	23.3	24.2	24.5
6H	23.3	24.1	23.7	24.5	24.8	23.2	24.1	23.6	24.4	24.8
8H	23.4	24.2	23.8	24.5	24.9	23.3	24.1	23.7	24.5	24.9
12H	23.5	24.2	23.9	24.6	25.0	23.4	24.1	23.8	24.5	24.9
8H 4H	23.1	23.9	23.5	24.2	24.6	23.1	23.8	23.5	24.2	24.6
6H	23.5	24.2	24.0	24.6	25.0	23.5	24.1	23.9	24.5	24.9
8H	23.7	24.3	24.2	24.7	25.1	23.6	24.2	24.1	24.6	25.1
12H	23.8	24.3	24.3	24.8	25.2	23.8	24.3	24.2	24.7	25.2
12H 4H	23.1	23.8	23.5	24.2	24.6	23.0	23.8	23.5	24.1	24.5
6H	23.5	24.1	24.0	24.5	25.0	23.5	24.1	24.0	24.5	24.9
8H	23.7	24.2	24.2	24.7	25.2	23.7	24.2	24.2	24.6	25.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
2.0H	+ 0.7 / - 0.6					+ 0.7 / - 0.6				

CIE Pub.117 Corrected 2197 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.7)

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γ Range: 0 - 90DEG  
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 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:53.0%  
 Test Distance:5.780m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

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SPEC.:4000K	DIM.: φ230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

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	65	54	48	64	54	48	63	53	48	42
0.80	74	64	58	74	64	58	72	63	57	51
1.00	82	73	67	81	72	66	79	73	66	59
1.25	89	80	74	88	79	74	85	78	73	66
1.50	93	85	79	92	84	79	89	83	78	71
2.00	99	92	87	98	91	86	94	89	84	77
2.50	102	96	91	101	95	90	97	92	88	81
3.00	105	100	95	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	106	103	108	105	102	104	101	98	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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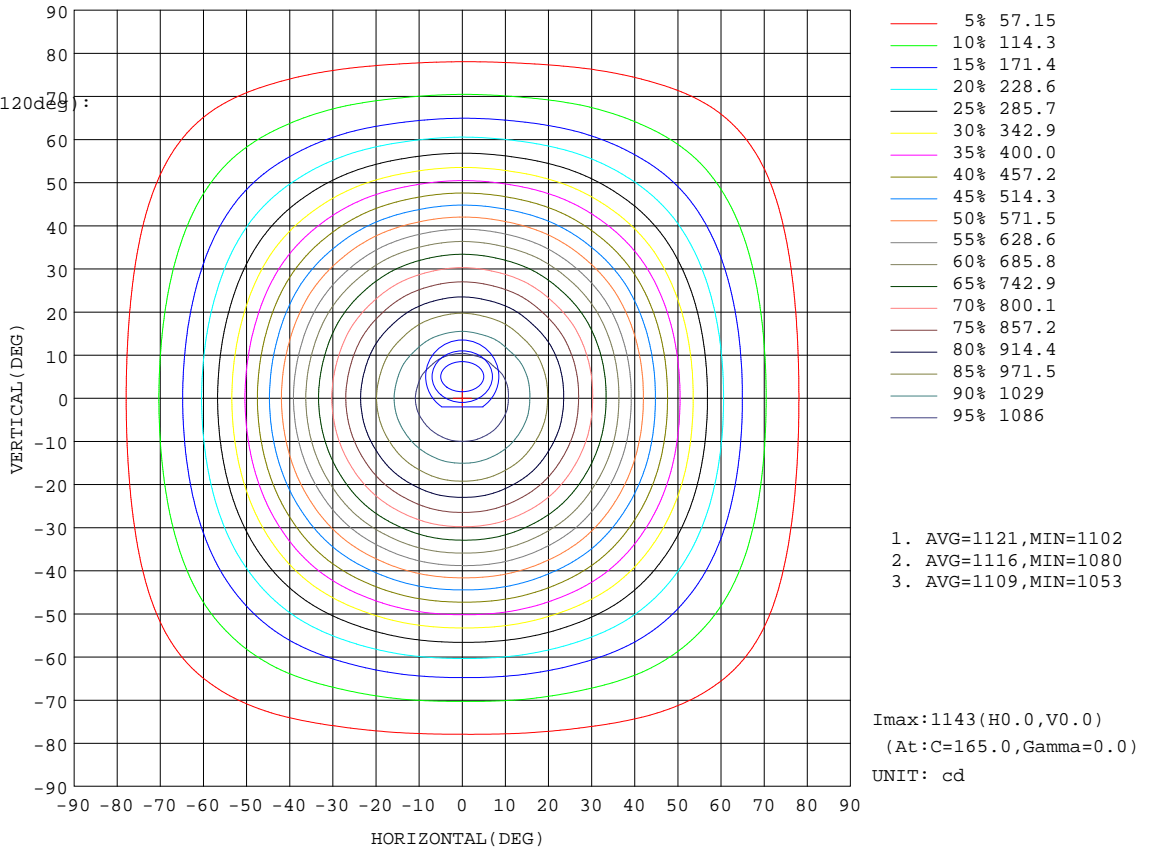
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ISOCANDELA DIAGRAM

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Conical surface Flux(90deg):  
 1454.3 lm  
 %lum = 66.2%  
 %lamp = 66.2%

Conical surface Flux(120deg):  
 1921.5 lm  
 %lum = 87.5%  
 %lamp = 87.5%



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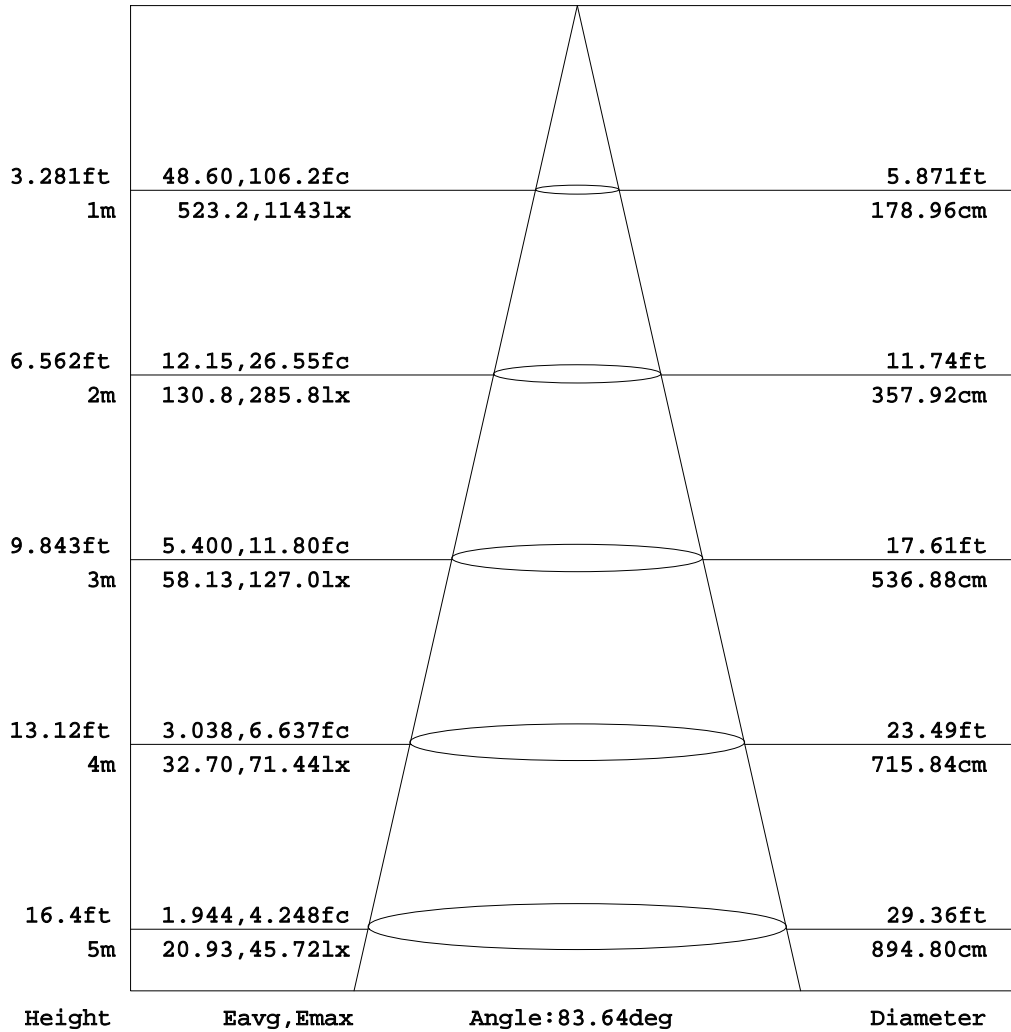
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**AAI Figure**

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Flux out:1332 lm



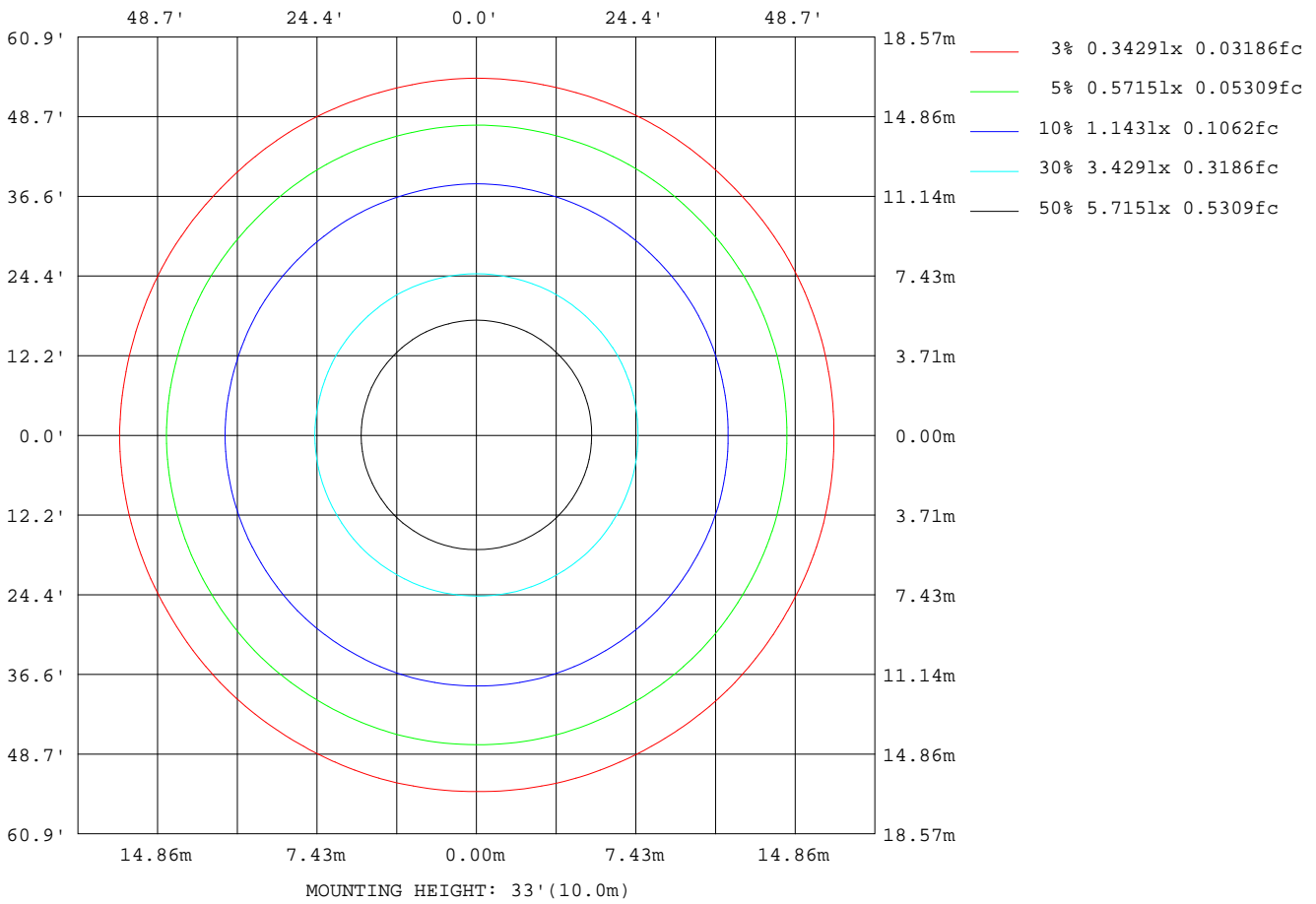
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

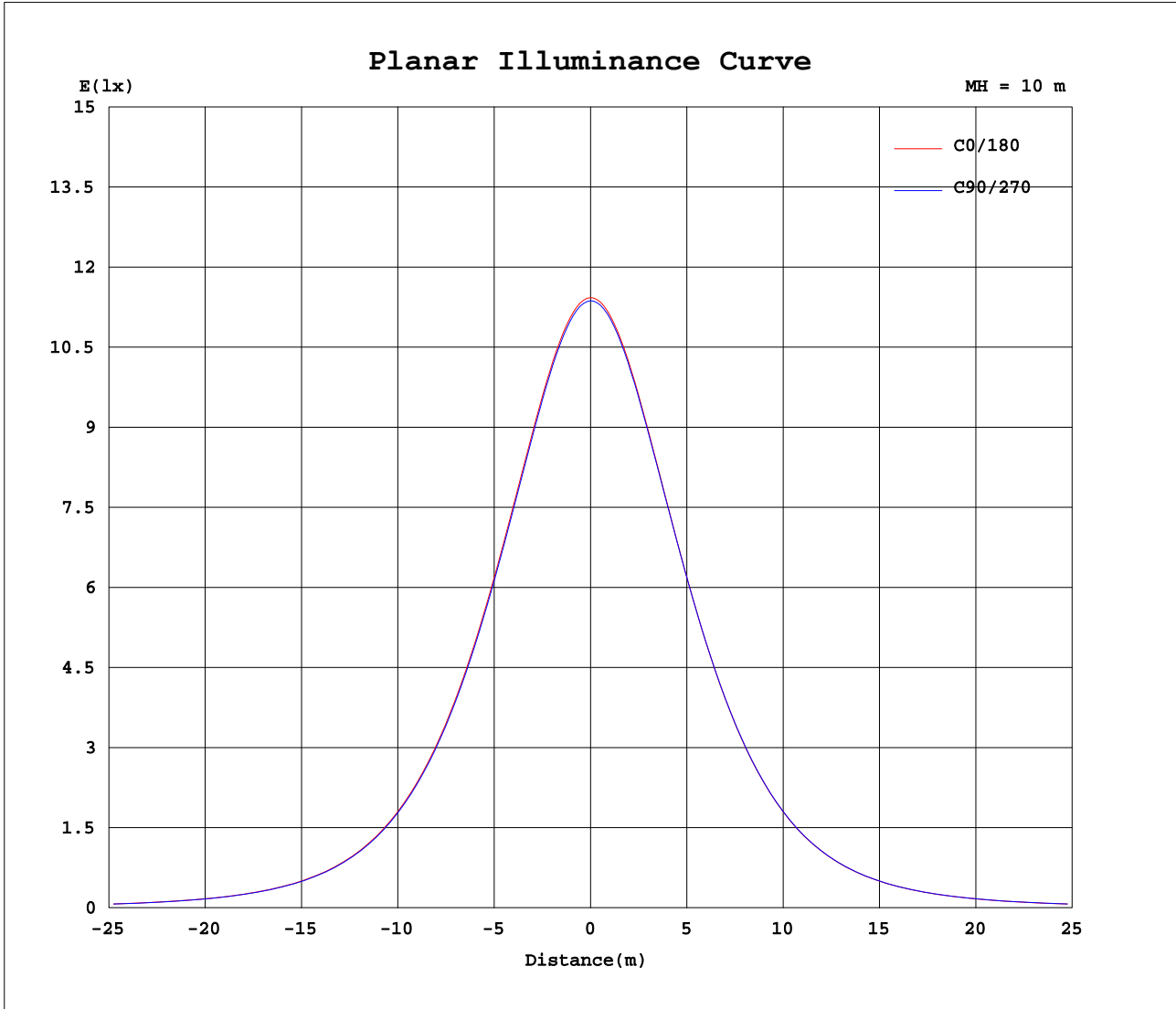
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Planar Illuminance Curve



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## 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	1143	1142	1141	1139	1139	1138	1137	1137	1138	1138
3.0	1138	1138	1136	1135	1133	1132	1132	1132	1133	1133
6.0	1124	1124	1122	1121	1119	1118	1118	1118	1119	1120
9.0	1102	1102	1100	1099	1097	1096	1095	1096	1096	1098
12.0	1072	1073	1071	1069	1067	1066	1065	1066	1067	1069
15.0	1037	1037	1035	1034	1032	1031	1030	1031	1031	1033
18.0	997.0	997.5	994.8	994.1	991.3	990.6	989.2	990.4	990.3	992.7
21.0	953.3	953.6	950.8	950.3	947.4	946.8	945.2	946.2	946.0	948.3
24.0	906.4	906.6	903.8	903.3	900.5	900.0	898.3	899.1	898.6	900.8
27.0	856.8	856.8	854.0	853.7	851.0	850.8	848.6	849.4	848.5	850.6
30.0	804.5	804.5	801.7	801.6	799.1	798.7	796.5	797.1	795.9	797.8
33.0	749.4	749.4	746.6	746.8	744.1	744.1	741.5	741.9	740.4	742.4
36.0	691.8	692.3	689.3	690.1	687.0	687.3	684.2	684.8	682.8	684.9
39.0	632.3	633.1	630.0	630.9	628.0	628.3	624.9	625.4	623.4	625.4
42.0	571.3	572.2	569.5	570.2	567.5	567.6	564.4	564.8	562.7	564.3
45.0	509.7	511.3	508.1	509.2	506.1	506.6	503.2	504.1	501.4	503.4
48.0	448.9	450.3	447.6	448.6	445.7	446.0	442.9	443.6	441.2	442.8
51.0	390.2	391.5	389.1	390.1	387.3	387.6	385.0	385.4	383.2	384.6
54.0	334.5	336.1	333.8	334.8	332.0	332.5	330.0	330.6	328.5	329.8
57.0	283.2	284.7	282.7	283.6	281.3	281.6	279.4	280.1	278.0	279.1
60.0	236.8	238.2	236.5	237.3	235.2	235.7	233.7	234.4	232.6	233.4
63.0	195.4	196.8	195.3	196.2	194.4	194.9	193.1	193.7	192.0	192.9
66.0	159.3	160.7	159.2	160.2	158.5	159.1	157.5	158.1	156.5	157.3
69.0	127.9	129.2	127.9	128.9	127.3	128.0	126.5	127.6	125.7	126.6
72.0	100.8	101.9	100.8	101.6	100.3	100.9	99.70	100.2	98.96	99.62
75.0	77.39	78.46	77.41	78.22	77.05	77.67	76.55	77.10	75.90	76.60
78.0	57.45	58.07	57.48	57.87	57.13	57.42	56.72	56.92	56.21	56.50
81.0	39.84	40.35	39.85	40.17	39.55	39.78	39.25	39.37	38.77	39.03
84.0	24.53	24.88	24.49	24.72	24.25	24.44	23.96	24.08	23.59	23.78
87.0	11.68	11.83	11.59	11.69	11.41	11.47	11.20	11.22	10.94	10.95
90.0	0.3639	0.3286	0.3119	0.2828	0.2787	0.2703	0.2724	0.2683	0.2724	0.2703
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1141	1143	1143	1142	1141	1139	1139	1138	1137	1137
3.0	1136	1138	1139	1138	1137	1135	1134	1133	1133	1132
6.0	1122	1125	1125	1124	1124	1121	1121	1120	1120	1119
9.0	1100	1103	1104	1102	1102	1099	1100	1099	1098	1097
12.0	1070	1073	1074	1073	1073	1070	1071	1070	1070	1068
15.0	1035	1038	1039	1037	1038	1035	1036	1035	1035	1033
18.0	994.0	997.4	999.1	997.2	997.9	994.9	996.4	995.2	995.8	994.1
21.0	949.4	953.0	954.9	953.0	954.1	951.1	952.9	951.6	952.6	951.0
24.0	902.0	905.5	907.7	905.8	907.0	904.4	906.3	905.1	906.3	904.8
27.0	851.5	855.2	857.4	855.7	856.9	854.5	856.6	855.7	857.0	855.7
30.0	798.6	802.3	804.7	802.7	804.4	801.8	804.3	803.2	805.1	803.5
33.0	742.7	746.3	749.2	747.4	748.9	746.5	749.0	748.2	750.1	748.8
36.0	684.7	688.8	691.4	689.1	691.1	688.4	691.4	690.1	692.7	691.2
39.0	624.9	628.6	631.5	629.4	631.0	628.6	631.3	630.2	632.8	631.7
42.0	563.9	567.3	570.2	567.9	569.6	567.0	569.8	569.0	571.7	570.4
45.0	502.3	505.7	508.4	505.8	507.6	504.8	508.0	506.8	510.0	508.5
48.0	441.7	444.6	447.2	444.7	446.2	443.7	446.5	445.9	448.7	447.7
51.0	383.3	385.8	388.1	385.6	387.0	384.6	387.5	386.9	389.7	388.8
54.0	328.2	330.4	332.5	330.1	331.5	329.2	331.9	331.4	334.2	333.2
57.0	277.5	279.4	281.2	278.9	280.1	278.2	280.6	280.3	282.8	281.7
60.0	231.9	233.4	234.9	232.6	233.8	232.0	234.4	233.9	236.4	235.5
63.0	191.3	192.6	194.0	192.0	192.9	191.5	193.5	193.2	195.2	194.6
66.0	155.8	156.9	157.9	156.2	157.1	155.8	157.3	157.3	159.1	158.6
69.0	125.0	126.1	126.9	125.1	126.2	124.8	126.7	126.2	127.9	127.3
72.0	98.37	99.08	99.80	98.55	99.29	98.35	99.67	99.37	100.7	100.4
75.0	75.42	76.08	76.68	75.54	76.27	75.40	76.61	76.24	77.47	77.10
78.0	55.77	56.08	56.64	55.93	56.32	55.89	56.60	56.60	57.35	57.31
81.0	38.41	38.64	39.20	38.61	38.99	38.63	39.27	39.20	39.89	39.82
84.0	23.30	23.51	23.96	23.61	23.87	23.68	24.13	24.14	24.61	24.63
87.0	10.55	10.75	11.23	11.01	11.17	11.14	11.46	11.45	11.80	11.81
90.0	0.2724	0.2724	0.2392	0.2454	0.2392	0.2558	0.2745	0.3639	0.4700	0.6176
G/C	300.0	315.0	330.0	345.0						
0.0	1138	1138	1141	1143						
3.0	1134	1133	1137	1139						
6.0	1120	1120	1124	1125						
9.0	1099	1098	1102	1103						
12.0	1070	1069	1074	1074						
15.0	1036	1034	1039	1039						
18.0	996.7	995.1	999.8	999.6						
21.0	953.7	952.0	956.6	955.9						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Cao Chengpei

Test Date: 2014-09-02

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288

Humidity: 53.0%

Test Distance: 5.780m [K=1.0000]

Remarks:

**Photometric Data Table [cd]**

24.0	907.6	906.0	910.1	909.3
27.0	858.4	856.9	860.6	859.7
30.0	806.5	804.9	808.7	807.2
33.0	751.7	750.2	753.6	752.2
36.0	694.3	692.5	696.4	694.5
39.0	634.7	633.1	636.7	635.0
42.0	573.5	571.9	575.5	573.8
45.0	511.8	509.8	513.8	512.1
48.0	450.5	449.0	452.4	451.2
51.0	391.5	389.9	393.3	392.2
54.0	335.8	334.3	337.5	336.5
57.0	284.2	282.9	285.8	285.0
60.0	237.7	236.3	239.1	238.2
63.0	196.4	195.4	197.7	197.0
66.0	160.2	159.3	161.2	160.7
69.0	128.9	127.9	129.7	129.1
72.0	101.6	100.8	102.3	101.9
75.0	78.23	77.53	78.82	78.32
78.0	58.00	57.67	58.42	58.27
81.0	40.40	40.09	40.73	40.52
84.0	25.04	24.86	25.27	25.15
87.0	12.10	11.98	12.25	12.14
90.0	0.6967	0.7923	0.8090	0.8318

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Cao Chengpei  
 Test Date: 2014-09-02

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 53.0%  
 Test Distance: 5.780m [K=1.0000]  
 Remarks: