

LED Downlight FUSION Series FF3-7W-840-40D Black



Light Output Ratio:	100.0%	
Luminaire Power:	8.876 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

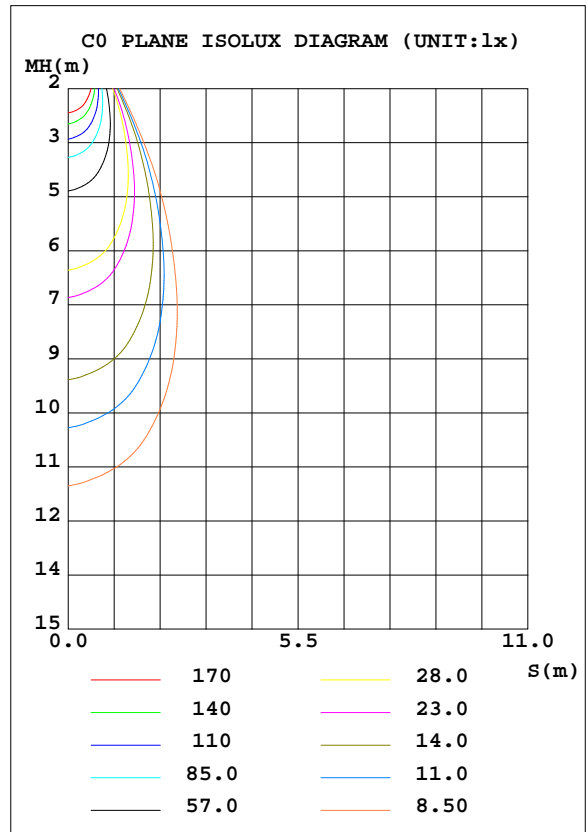
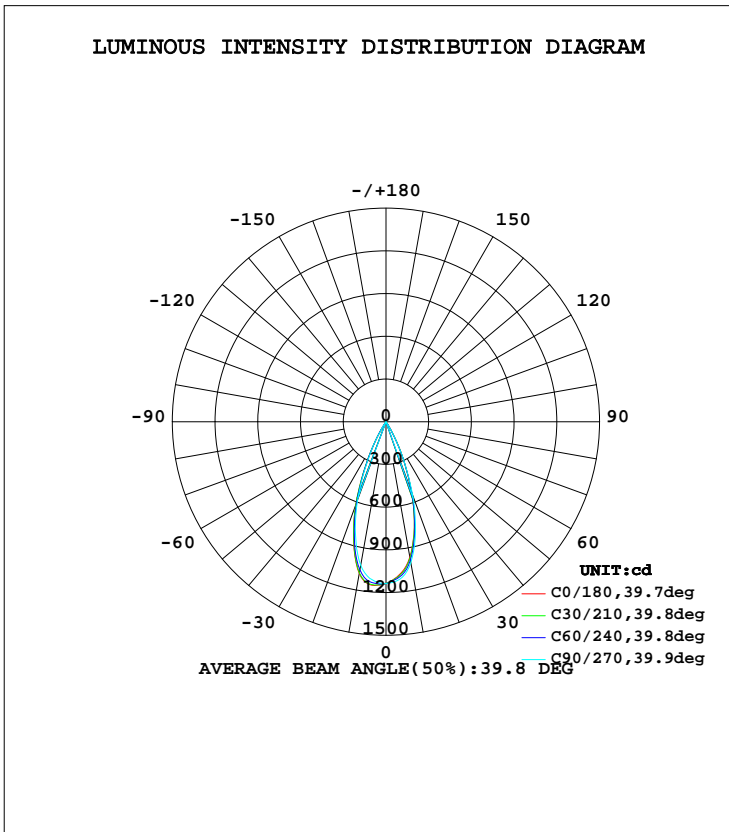
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2016-06-24

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:220.0V I:0.0484A P:8.876W PF:0.8333 Lamp Flux:483.78x1 lm		
NAME: FF3-7W-840-40D Black	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CREE-4000K	Imax(cd)	1153	S/MH(C0/180)	0.64
NOMINAL POWER(W)	8.5	LOR(%)	100.0	S/MH(C90/270)	0.63
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	483.78	η UP, DN(C0-180)	0.0, 48.8
NOMINAL FLUX(lm)	483.78	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 51.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.65



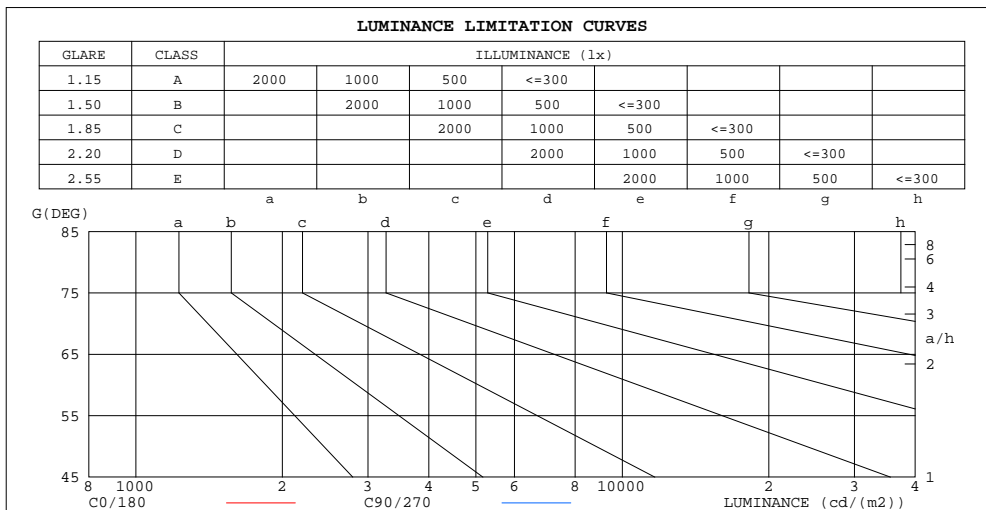
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum,lamp
10	965.7	982.3	1005	1055	1081	1065	1023	990.7	0- 10	103.6	103.6	21.4,21.4
20	526.4	532.2	547.0	581.8	618.8	604.7	582.7	547.6	10- 20	223.1	326.7	67.5,67.5
30	95.58	92.26	88.36	99.57	120.5	117.9	118.1	106.4	20- 30	140.1	466.9	96.5,96.5
40	1.796	1.892	1.562	1.685	1.893	2.179	2.151	2.189	30- 40	16.17	483.0	99.8,99.8
50	0.2603	0.2681	0.2815	0.2277	0.2021	0.2900	0.3043	0.2921	40- 50	0.4706	483.5	99.9,99.9
60	0.1045	0.0915	0.1215	0.0872	0.0681	0.1279	0.1255	0.1236	50- 60	0.1528	483.7	100,100
70	0.0469	0.0320	0.0639	0.0383	0.0234	0.0597	0.0532	0.0597	60- 70	0.0710	483.7	100,100
80	0.0213	0.0170	0.0320	0.0170	0.0064	0.0341	0.0191	0.0299	70- 80	0.0355	483.8	100,100
90	0.0170	0.0170	0.0192	0.0149	0.0107	0.0128	0.0085	0.0128	80- 90	0.0192	483.8	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	44	67
80	28	42
75	30	41
70	31	42
65	37	46
60	47	55
55	65	72
50	92	99
45	145	151

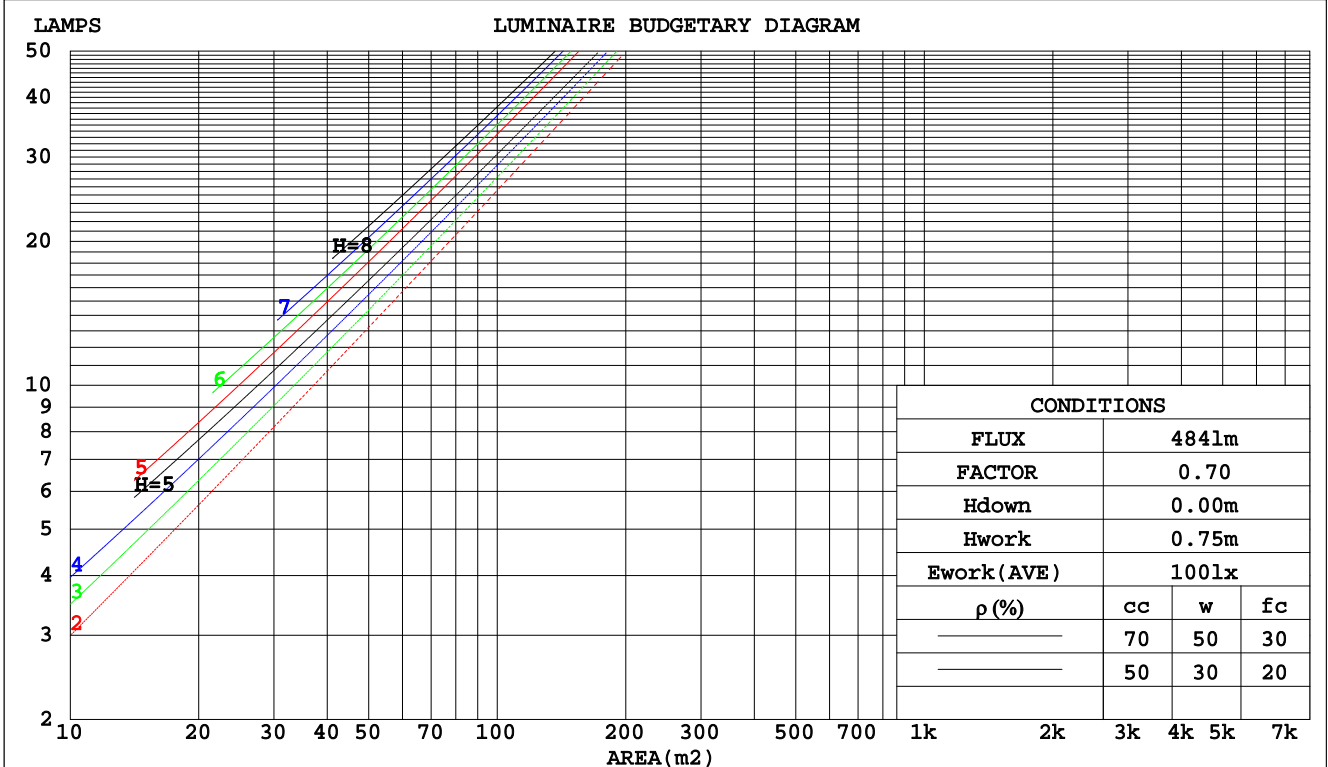
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: FF3-7W-840-40D Black	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc																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	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.03	1.01	1.00	.99	.98	.98	.96
2.0	1.07	1.03	1.01	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.97	.94	1.00	.96	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.92	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.84
5.0	.92	.88	.85	.92	.87	.84	.90	.86	.84	.88	.85	.83	.87	.84	.82	.81
6.0	.89	.84	.81	.88	.84	.80	.87	.83	.80	.85	.82	.79	.84	.81	.79	.78
7.0	.85	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
8.0	.82	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.79	.75	.73	.72
9.0	.79	.74	.71	.78	.74	.71	.77	.73	.71	.77	.73	.70	.76	.73	.70	.69
10.0	.76	.71	.68	.75	.71	.68	.75	.71	.68	.74	.70	.68	.73	.70	.68	.67



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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	.147	.084	.026	.140	.080	.025	.128	.073	.023	.116	.067	.022	.106	.061	.020	
2.0	.137	.075	.023	.132	.073	.022	.122	.068	.021	.112	.063	.020	.103	.058	.018	
3.0	.129	.069	.021	.124	.067	.020	.116	.063	.019	.108	.059	.018	.100	.056	.017	
4.0	.122	.063	.019	.118	.062	.018	.111	.059	.018	.104	.056	.017	.097	.053	.016	
5.0	.116	.059	.017	.112	.058	.017	.106	.055	.016	.100	.053	.016	.095	.051	.015	
6.0	.110	.055	.016	.107	.054	.016	.102	.052	.015	.097	.050	.015	.092	.048	.014	
7.0	.105	.052	.015	.103	.051	.015	.098	.049	.014	.093	.048	.014	.089	.046	.014	
8.0	.101	.049	.014	.099	.049	.014	.094	.047	.013	.090	.046	.013	.087	.044	.013	
9.0	.097	.047	.013	.095	.046	.013	.091	.045	.013	.087	.044	.013	.084	.043	.012	
10.0	.093	.045	.012	.091	.044	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012	

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						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	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.099	.074	.056	.068	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.059	.041	.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	.089	.056	.034	.076	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.030	.072	.045	.026	.050	.032	.019	.029	.019	.011	.009	.006	.004	

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UGR(Unified Glare Rating) Table

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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	2.5	3.2	2.7	3.4	3.5	2.1	2.8	2.3	2.9	3.1
3H	2.3	3.0	2.6	3.2	3.4	1.9	2.6	2.1	2.8	3.0
4H	2.2	2.9	2.5	3.1	3.3	1.8	2.5	2.1	2.7	2.9
6H	2.2	2.8	2.4	3.0	3.2	1.7	2.3	2.0	2.6	2.8
8H	2.1	2.7	2.4	2.9	3.2	1.7	2.3	2.0	2.5	2.8
12H	2.1	2.6	2.4	2.9	3.2	1.6	2.2	2.0	2.5	2.7
4H 2H	2.2	2.9	2.5	3.1	3.3	1.8	2.5	2.1	2.7	2.9
3H	2.1	2.6	2.4	2.9	3.2	1.6	2.2	2.0	2.5	2.7
4H	2.0	2.5	2.3	2.8	3.1	1.6	2.1	1.9	2.4	2.7
6H	1.9	2.3	2.2	2.6	3.0	1.5	1.9	1.8	2.2	2.6
8H	1.8	2.2	2.2	2.6	2.9	1.4	1.8	1.8	2.2	2.5
12H	1.8	2.1	2.2	2.5	2.9	1.4	1.7	1.8	2.1	2.5
8H 4H	1.8	2.2	2.2	2.6	2.9	1.4	1.8	1.8	2.2	2.5
6H	1.7	2.1	2.1	2.4	2.9	1.3	1.6	1.7	2.0	2.4
8H	1.6	2.0	2.1	2.4	2.8	1.2	1.5	1.7	2.0	2.4
12H	1.6	1.9	2.1	2.3	2.8	1.2	1.4	1.6	1.9	2.4
12H 4H	1.8	2.1	2.2	2.5	2.9	1.3	1.7	1.8	2.1	2.5
6H	1.6	2.0	2.1	2.4	2.8	1.2	1.5	1.7	2.0	2.4
8H	1.6	1.9	2.1	2.3	2.8	1.2	1.4	1.6	1.9	2.3
Variations with the observer position at spacings:										
S = 1.0H	+ 5.0 / - 9.7					+ 4.4 / - 7.5				
1.5H	+ 7.6 / - 8.2					+ 6.9 / - 6.7				
2.0H	+ 3.3 / - 2.2					+ 2.8 / - 1.7				

CIE Pub.117 Corrected 483.8 lm Total Lamp Luminous Flux. (8log(F/F0) = -2.5)

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UTILIZATION FACTORS TABLE

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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	92	86	83	91	86	82	90	85	82	79
0.80	98	93	90	98	93	90	97	92	90	86
1.00	102	97	94	101	97	94	100	96	93	90
1.25	105	101	98	104	100	98	103	99	97	93
1.50	108	104	101	107	103	100	105	102	99	95
2.00	110	106	103	109	105	103	106	103	101	96
2.50	111	108	105	110	107	104	107	104	103	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	111	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	108	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

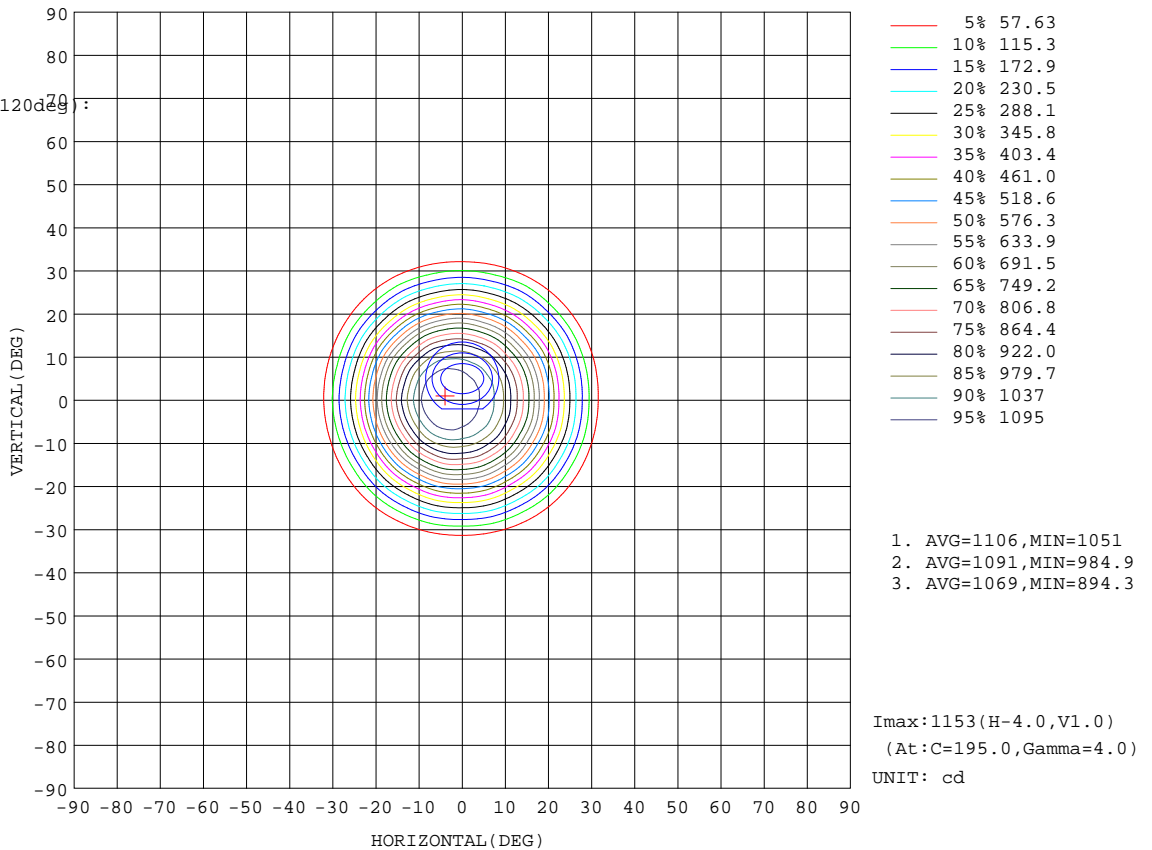
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Conical surface Flux(90deg):

483.36 lm
%lum = 99.9%
%lamp = 99.9%

Conical surface Flux(120deg):

483.65 lm
%lum = 100.0%
%lamp = 100.0%

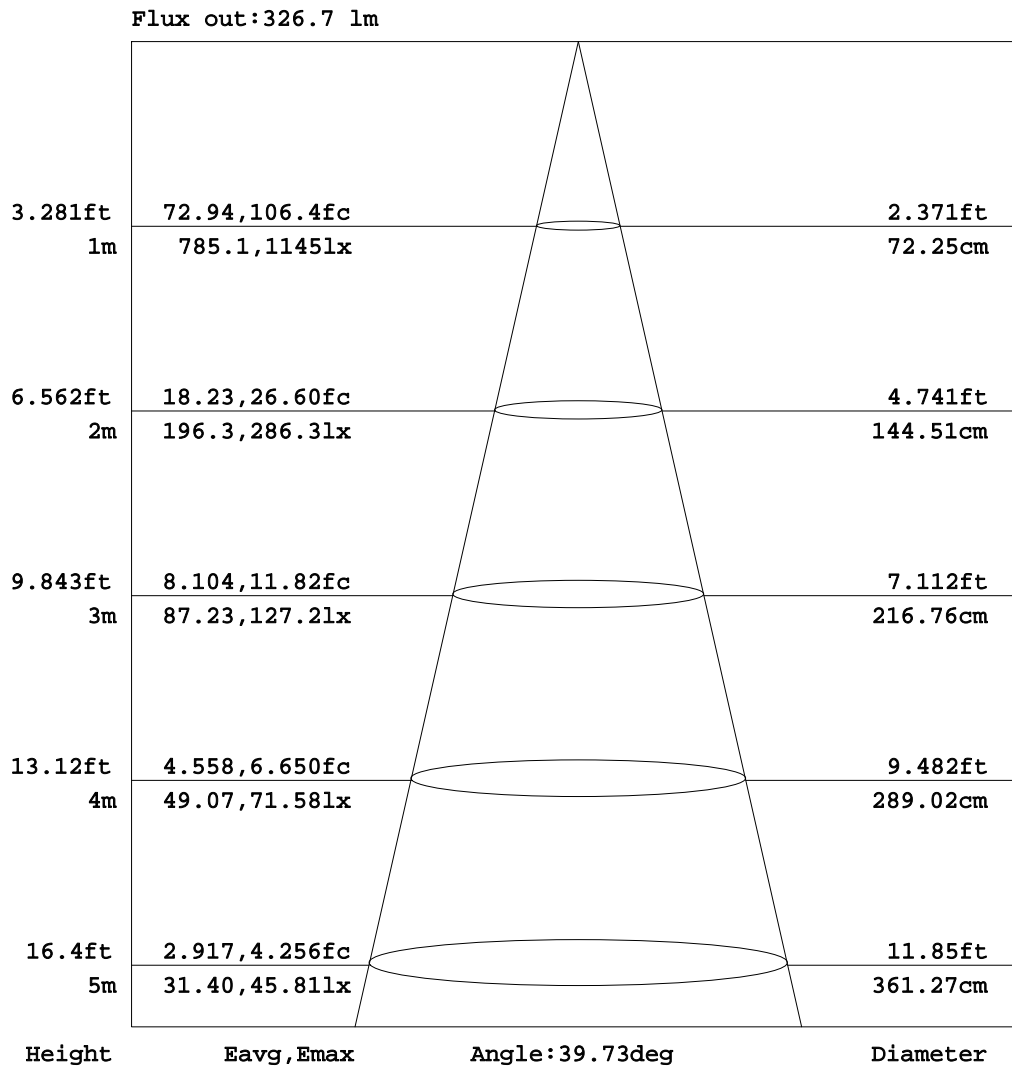


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AAI Figure

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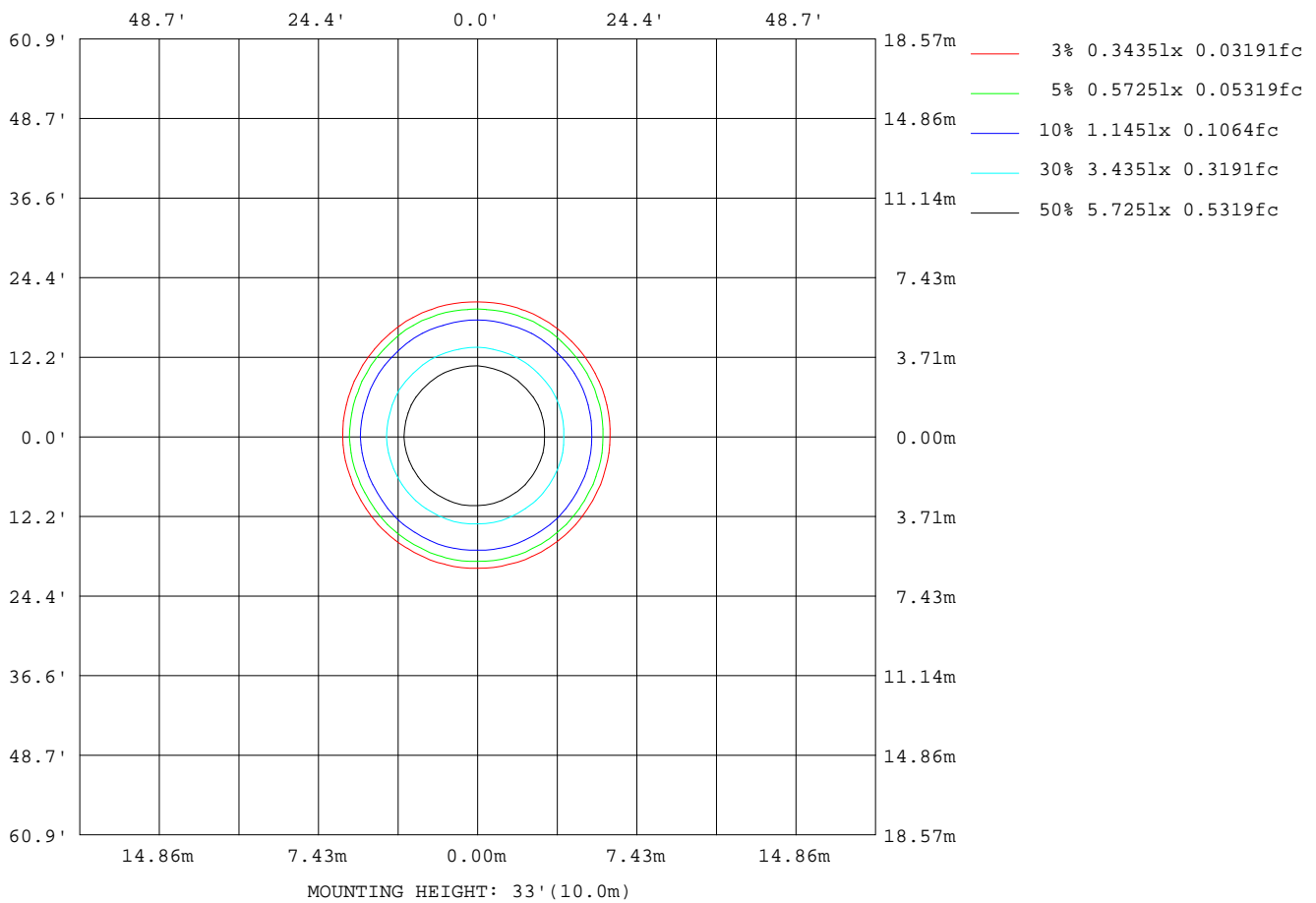
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

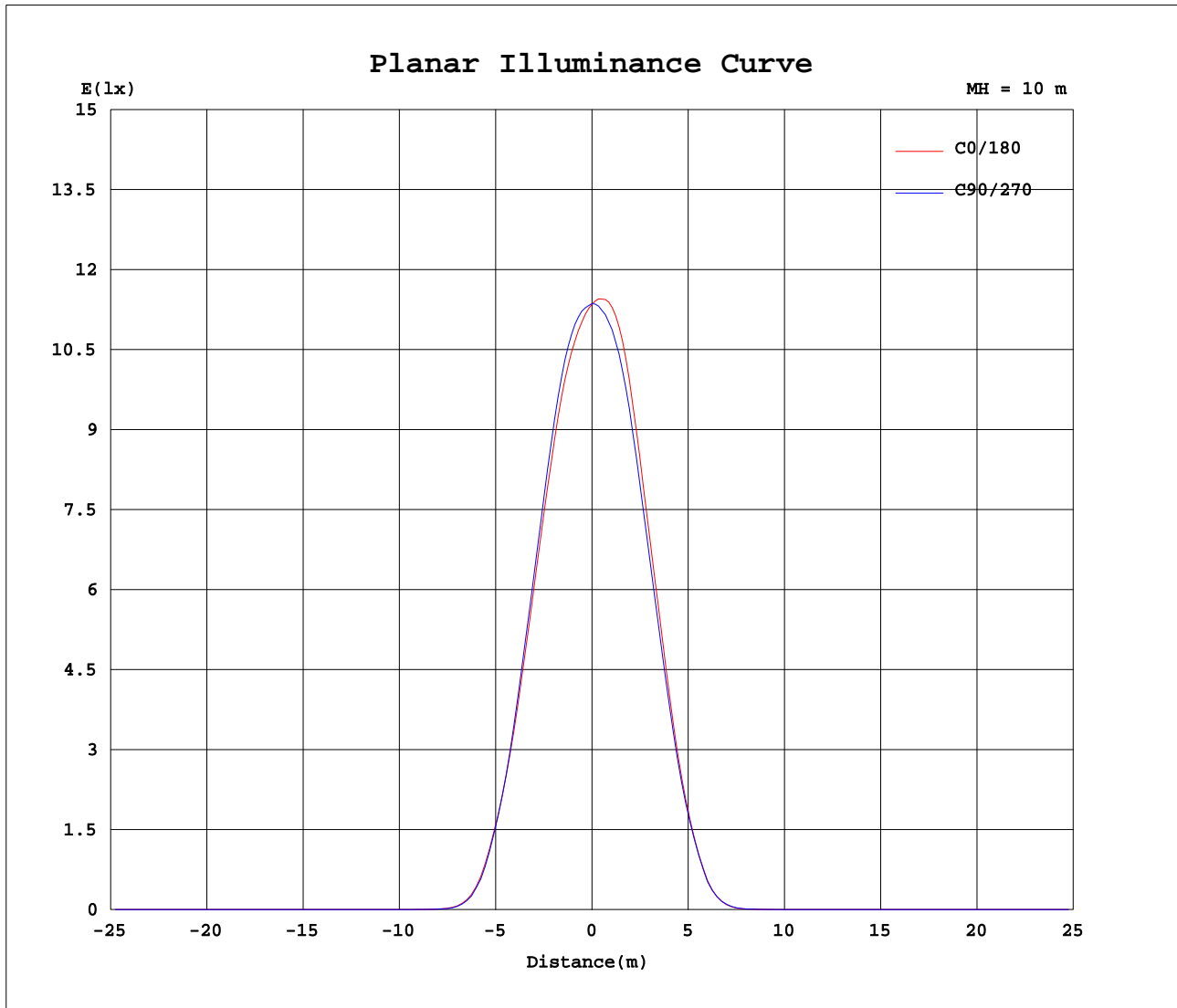
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Planar Illuminance Curve



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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	1135	1136	1136	1136	1136	1136	1136	1136	1137	1136
3.0	1106	1108	1109	1112	1114	1121	1127	1132	1135	1142
6.0	1064	1067	1071	1078	1082	1090	1097	1110	1120	1133
9.0	996.7	1002	1003	1014	1019	1027	1035	1052	1066	1082
12.0	893.3	899.1	898.7	910.7	914.3	925.9	932.6	952.0	966.5	981.4
15.0	769.5	773.4	768.7	779.0	781.9	795.4	799.7	820.3	828.5	843.8
18.0	626.5	631.3	626.2	634.6	634.1	647.4	652.6	668.8	674.4	692.1
21.0	474.3	480.8	474.3	479.5	476.3	489.3	492.2	505.1	507.5	525.1
24.0	329.6	332.7	327.5	330.9	326.7	334.2	332.3	342.6	344.0	356.8
27.0	205.8	207.5	201.3	205.3	200.0	204.4	199.7	207.7	208.0	216.4
30.0	95.58	94.07	88.02	92.26	89.85	91.62	88.36	94.28	95.04	99.57
33.0	31.88	31.55	29.84	30.47	29.21	29.75	29.00	30.77	31.00	32.96
36.0	7.848	7.834	7.274	7.547	6.915	6.962	6.540	7.096	7.137	8.078
39.0	2.481	2.576	2.470	2.573	2.416	2.374	2.103	2.189	2.197	2.308
42.0	0.7720	0.7870	0.7867	0.8148	0.8182	0.8254	0.7740	0.7551	0.7330	0.7274
45.0	0.4524	0.4490	0.4716	0.4767	0.5035	0.4959	0.4715	0.4427	0.4331	0.4107
48.0	0.3220	0.3086	0.3327	0.3320	0.3583	0.3490	0.3412	0.3107	0.3114	0.2809
51.0	0.2367	0.2193	0.2410	0.2320	0.2645	0.2575	0.2559	0.2278	0.2325	0.2043
54.0	0.1813	0.1639	0.1792	0.1682	0.1983	0.1915	0.1962	0.1724	0.1770	0.1512
57.0	0.1407	0.1149	0.1365	0.1319	0.1493	0.1405	0.1535	0.1363	0.1407	0.1170
60.0	0.1045	0.0830	0.1024	0.0915	0.1130	0.1043	0.1215	0.0980	0.1109	0.0872
63.0	0.0852	0.0638	0.0810	0.0639	0.0875	0.0787	0.0960	0.0788	0.0938	0.0703
66.0	0.0661	0.0404	0.0597	0.0447	0.0703	0.0660	0.0810	0.0682	0.0789	0.0617
69.0	0.0533	0.0298	0.0490	0.0341	0.0597	0.0468	0.0661	0.0489	0.0682	0.0426
72.0	0.0384	0.0234	0.0384	0.0320	0.0469	0.0341	0.0555	0.0341	0.0554	0.0362
75.0	0.0341	0.0170	0.0362	0.0234	0.0405	0.0320	0.0469	0.0298	0.0468	0.0319
78.0	0.0256	0.0170	0.0319	0.0170	0.0341	0.0255	0.0362	0.0276	0.0362	0.0276
81.0	0.0192	0.0170	0.0256	0.0170	0.0298	0.0170	0.0298	0.0170	0.0362	0.0149
84.0	0.0171	0.0170	0.0234	0.0170	0.0256	0.0170	0.0256	0.0170	0.0256	0.0149
87.0	0.0170	0.0170	0.0213	0.0170	0.0213	0.0170	0.0213	0.0170	0.0213	0.0149
90.0	0.0170	0.0170	0.0213	0.0170	0.0192	0.0170	0.0192	0.0170	0.0192	0.0149
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1136	1135	1136	1136	1136	1136	1136	1136	1136	1136
3.0	1147	1149	1149	1149	1147	1144	1139	1134	1128	1124
6.0	1138	1144	1148	1148	1145	1137	1129	1114	1105	1093
9.0	1090	1100	1108	1104	1103	1091	1083	1063	1050	1037
12.0	987.9	999.8	1012	1008	1008	997.0	989.8	967.8	955.4	940.9
15.0	849.6	865.5	878.9	872.3	874.3	861.6	858.7	839.1	829.0	812.9
18.0	700.3	716.2	728.3	726.0	729.0	713.2	709.4	692.7	686.6	667.0
21.0	533.9	547.3	559.8	558.3	565.0	547.5	545.6	531.4	529.2	512.0
24.0	360.2	372.1	384.4	382.1	391.0	379.7	378.7	367.3	368.5	356.3
27.0	216.0	226.5	238.0	235.3	240.5	235.8	238.5	230.7	231.9	226.4
30.0	98.85	107.4	120.5	115.0	121.5	117.9	124.6	116.1	118.1	112.3
33.0	33.43	36.20	41.10	39.77	43.00	41.37	44.45	41.44	41.49	38.95
36.0	7.972	8.631	9.894	9.883	11.58	11.08	11.81	10.84	11.02	9.806
39.0	2.236	2.376	2.599	2.614	2.928	3.021	3.272	3.016	2.905	2.864
42.0	0.7105	0.7146	0.7396	0.7710	0.9134	0.9256	1.013	1.007	1.028	0.9256
45.0	0.4012	0.3787	0.3871	0.4267	0.4510	0.4949	0.5191	0.5588	0.5255	0.5289
48.0	0.2752	0.2490	0.2616	0.2964	0.3064	0.3497	0.3639	0.4008	0.3703	0.3774
51.0	0.2047	0.1745	0.1809	0.2154	0.2234	0.2644	0.2681	0.3028	0.2745	0.2857
54.0	0.1514	0.1277	0.1277	0.1620	0.1618	0.2046	0.2022	0.2345	0.2107	0.2196
57.0	0.1194	0.0936	0.0936	0.1194	0.1276	0.1599	0.1553	0.1876	0.1597	0.1769
60.0	0.0938	0.0703	0.0681	0.0959	0.0957	0.1279	0.1171	0.1492	0.1255	0.1407
63.0	0.0746	0.0553	0.0510	0.0746	0.0681	0.0981	0.0935	0.1151	0.0958	0.1109
66.0	0.0597	0.0383	0.0341	0.0597	0.0511	0.0810	0.0660	0.0917	0.0723	0.0874
69.0	0.0511	0.0298	0.0276	0.0490	0.0362	0.0661	0.0532	0.0746	0.0596	0.0725
72.0	0.0448	0.0192	0.0128	0.0363	0.0298	0.0512	0.0404	0.0618	0.0404	0.0618
75.0	0.0383	0.0170	0.0106	0.0320	0.0276	0.0426	0.0320	0.0511	0.0319	0.0511
78.0	0.0320	0.0170	0.0064	0.0277	0.0149	0.0362	0.0298	0.0426	0.0276	0.0363
81.0	0.0298	0.0170	0.0064	0.0213	0.0085	0.0299	0.0170	0.0341	0.0128	0.0341
84.0	0.0235	0.0170	0.0064	0.0171	0.0085	0.0256	0.0064	0.0235	0.0085	0.0235
87.0	0.0213	0.0170	0.0064	0.0149	0.0085	0.0192	0.0064	0.0192	0.0085	0.0171
90.0	0.0213	0.0170	0.0107	0.0107	0.0107	0.0128	0.0085	0.0128	0.0085	0.0128
G/C	300.0	315.0	330.0	345.0						
0.0	1137	1136	1136	1135						
3.0	1118	1112	1111	1108						
6.0	1086	1081	1076	1068						
9.0	1032	1019	1013	1003						
12.0	936.0	919.5	911.7	902.1						
15.0	807.1	790.0	786.9	778.6						
18.0	662.3	648.0	646.8	637.4						
21.0	509.4	496.5	498.9	487.0						

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2016-06-24

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	356.3	346.7	349.8	338.5
27.0	227.7	221.0	221.7	214.2
30.0	118.2	106.4	102.9	101.0
33.0	40.18	36.34	35.88	34.21
36.0	10.36	9.663	9.502	8.588
39.0	3.140	2.969	2.930	2.726
42.0	0.9440	0.8848	0.8503	0.8063
45.0	0.5297	0.5077	0.4595	0.4629
48.0	0.3661	0.3560	0.3128	0.3241
51.0	0.2724	0.2644	0.2276	0.2410
54.0	0.2022	0.2047	0.1681	0.1855
57.0	0.1553	0.1578	0.1255	0.1407
60.0	0.1170	0.1236	0.0978	0.1066
63.0	0.0936	0.0959	0.0660	0.0832
66.0	0.0681	0.0789	0.0468	0.0661
69.0	0.0511	0.0639	0.0341	0.0533
72.0	0.0383	0.0511	0.0298	0.0426
75.0	0.0298	0.0426	0.0213	0.0341
78.0	0.0255	0.0383	0.0149	0.0298
81.0	0.0128	0.0298	0.0085	0.0256
84.0	0.0107	0.0256	0.0085	0.0213
87.0	0.0107	0.0171	0.0085	0.0170
90.0	0.0107	0.0128	0.0085	0.0149

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: Cao Chengpei
 Test Date: 2016-06-24

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: