

LED Downlight FUSION Series FF2-4W-840-40D Black



Light Output Ratio:	100.0%	
Luminaire Power:	6.562 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

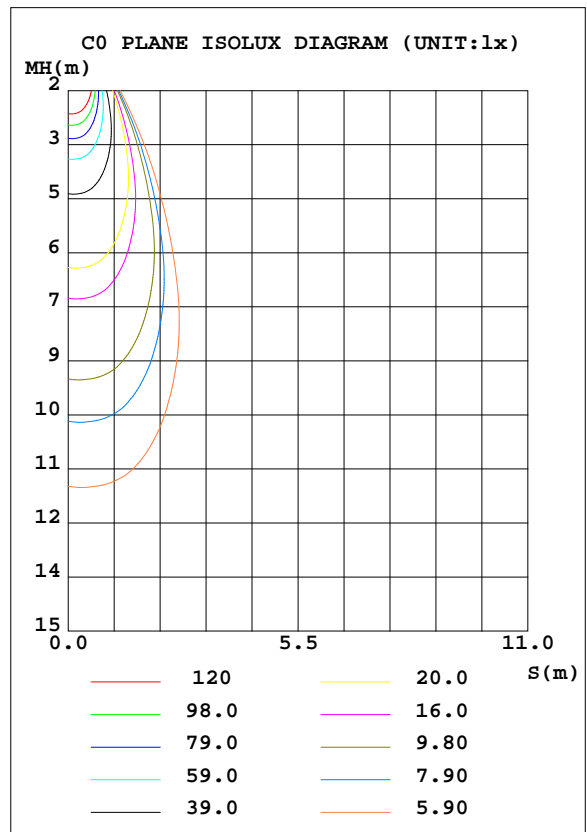
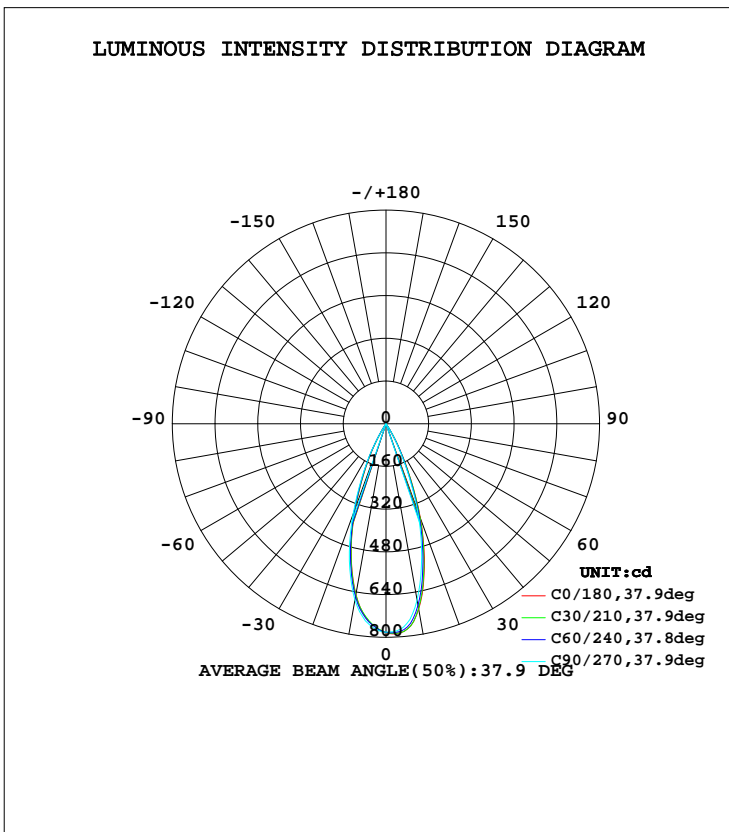
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2016-06-24

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:0.0393A P:6.562W PF:0.7593 Lamp Flux:310.708x1 lm		
NAME: FF2-4W-840-40D Black	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L70mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CREE-4000K	Imax(cd)	787.7	S/MH(C0/180)	0.59
NOMINAL POWER(W)	6.0	LOR(%)	100.0	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	310.71	η UP, DN(C0-180)	0.0, 49.7
NOMINAL FLUX(lm)	310.708	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.60



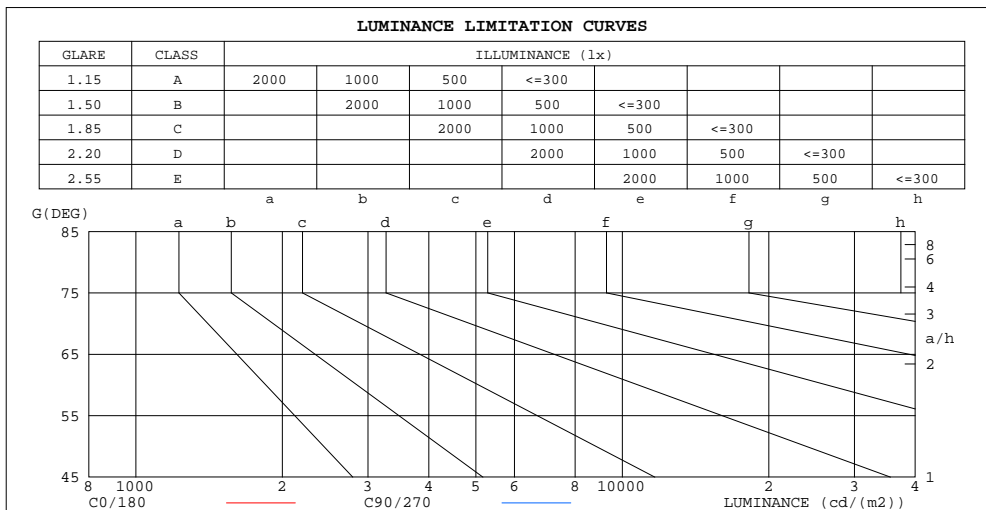
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum,lamp
10	705.8	700.8	670.7	654.7	649.1	652.7	670.4	696.1	0- 10	69.88	69.88	22.5,22.5
20	378.0	369.5	346.4	331.9	336.5	337.9	361.7	378.1	10- 20	143.4	213.3	68.6,68.6
30	71.13	71.00	62.94	60.98	64.18	63.87	67.67	70.13	20- 30	86.33	299.6	96.4,96.4
40	1.371	1.498	1.375	1.455	1.548	1.490	1.483	1.368	30- 40	10.50	310.1	99.8,99.8
50	0.2091	0.2277	0.2431	0.2043	0.1915	0.2175	0.2170	0.2133	40- 50	0.3759	310.5	99.9,99.9
60	0.0874	0.0873	0.1130	0.0830	0.0681	0.0917	0.0766	0.0916	50- 60	0.1232	310.6	100,100
70	0.0405	0.0362	0.0660	0.0362	0.0212	0.0511	0.0340	0.0511	60- 70	0.0610	310.7	100,100
80	0.0128	0.0107	0.0320	0.0106	0.0043	0.0277	0.0064	0.0256	70- 80	0.0303	310.7	100,100
90	0.0085	0.0085	0.0085	0.0085	0.0043	0.0064	0.0043	0.0064	80- 90	0.0119	310.7	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	31	70
80	23	58
75	37	58
70	38	61
65	45	61
60	55	72
55	72	89
50	103	120
45	173	189

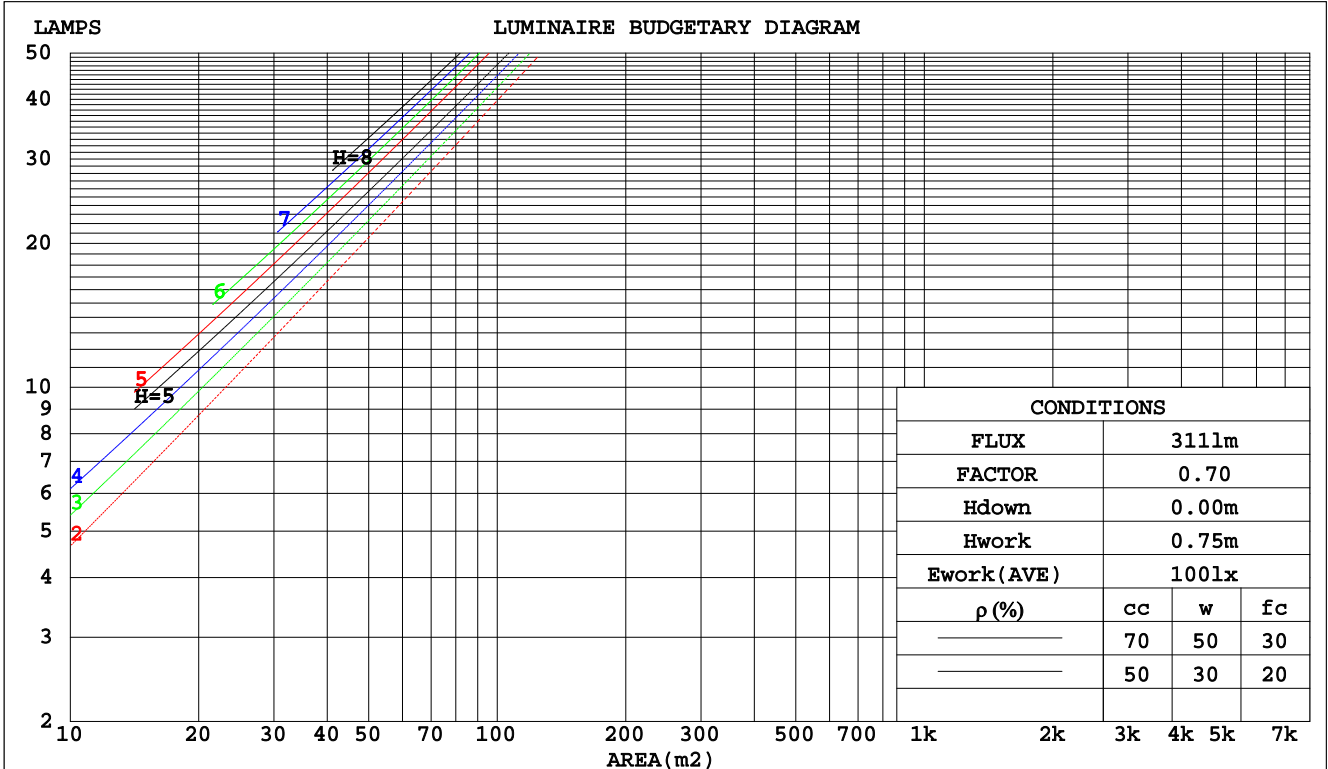
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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:4000K	DIM.: L70mm*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	1.00
1.0	1.12	1.10	1.09	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	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	.98	.94	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.90	.88
4.0	.97	.93	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.85
5.0	.93	.88	.85	.92	.88	.85	.90	.87	.84	.89	.86	.83	.87	.85	.82	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.84	.81	.79	.78
7.0	.85	.81	.78	.85	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
8.0	.82	.78	.74	.82	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.72
9.0	.79	.75	.72	.79	.74	.71	.78	.74	.71	.77	.74	.71	.76	.73	.71	.70
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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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	.146	.083	.026	.139	.080	.025	.127	.073	.023	.116	.067	.021	.105	.061	.020	
2.0	.136	.075	.023	.131	.072	.022	.121	.067	.021	.111	.062	.020	.102	.058	.018	
3.0	.128	.068	.020	.124	.066	.020	.115	.062	.019	.107	.059	.018	.099	.055	.017	
4.0	.121	.063	.018	.117	.061	.018	.110	.058	.017	.103	.055	.017	.097	.052	.016	
5.0	.115	.058	.017	.111	.057	.017	.105	.055	.016	.099	.052	.016	.094	.050	.015	
6.0	.109	.055	.016	.106	.054	.015	.101	.052	.015	.096	.050	.015	.091	.048	.014	
7.0	.104	.052	.015	.102	.051	.014	.097	.049	.014	.092	.047	.014	.088	.046	.013	
8.0	.100	.049	.014	.098	.048	.014	.093	.047	.013	.089	.045	.013	.086	.044	.013	
9.0	.096	.046	.013	.094	.046	.013	.090	.045	.013	.087	.043	.012	.083	.042	.012	
10.0	.092	.044	.012	.090	.044	.012	.087	.043	.012	.084	.042	.012	.081	.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	.107	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.064	.099	.074	.056	.068	.052	.040	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.063	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.059	.041	.028	.034	.024	.017	.011	.008	.006	
8.0	.094	.062	.040	.081	.053	.035	.056	.038	.025	.032	.022	.015	.010	.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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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	3.6	4.3	3.8	4.4	4.6	3.2	3.9	3.4	4.1	4.2
3H	3.4	4.1	3.6	4.3	4.4	3.1	3.7	3.3	3.9	4.1
4H	3.3	4.0	3.6	4.2	4.4	3.0	3.6	3.2	3.8	4.0
6H	3.2	3.8	3.5	4.1	4.3	2.9	3.5	3.2	3.7	4.0
8H	3.2	3.8	3.5	4.0	4.3	2.9	3.4	3.1	3.7	3.9
12H	3.1	3.7	3.5	4.0	4.2	2.8	3.4	3.1	3.6	3.9
4H 2H	3.3	4.0	3.6	4.2	4.4	3.0	3.6	3.2	3.8	4.0
3H	3.1	3.7	3.5	4.0	4.2	2.8	3.4	3.1	3.6	3.9
4H	3.1	3.6	3.4	3.9	4.2	2.7	3.2	3.0	3.5	3.8
6H	3.0	3.4	3.3	3.7	4.1	2.6	3.1	3.0	3.4	3.7
8H	2.9	3.3	3.3	3.7	4.0	2.6	3.0	2.9	3.3	3.7
12H	2.8	3.2	3.3	3.6	4.0	2.5	2.9	2.9	3.3	3.6
8H 4H	2.9	3.3	3.3	3.7	4.0	2.6	3.0	2.9	3.3	3.7
6H	2.8	3.1	3.2	3.5	3.9	2.5	2.8	2.9	3.2	3.6
8H	2.7	3.0	3.2	3.5	3.9	2.4	2.7	2.8	3.1	3.6
12H	2.7	2.9	3.1	3.4	3.8	2.3	2.6	2.8	3.0	3.5
12H 4H	2.8	3.2	3.3	3.6	4.0	2.5	2.9	2.9	3.3	3.6
6H	2.7	3.0	3.2	3.5	3.9	2.4	2.7	2.8	3.1	3.6
8H	2.7	2.9	3.1	3.4	3.8	2.3	2.6	2.8	3.0	3.5
Variations with the observer position at spacings:										
S = 1.0H	+ 4.9 / - 8.7					+ 4.8 / - 7.3				
1.5H	+ 7.5 / - 7.5					+ 7.4 / - 6.6				
2.0H	+ 3.2 / - 2.0					+ 2.9 / - 1.5				

CIE Pub.117 Corrected 310.7 lm Total Lamp Luminous Flux. (8log(F/F0) = -4.1)

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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	91	86	83	91	86	82	90	85	82	79
0.80	98	93	90	98	93	90	97	92	89	86
1.00	102	97	94	101	97	94	100	96	93	90
1.25	105	101	98	104	100	97	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

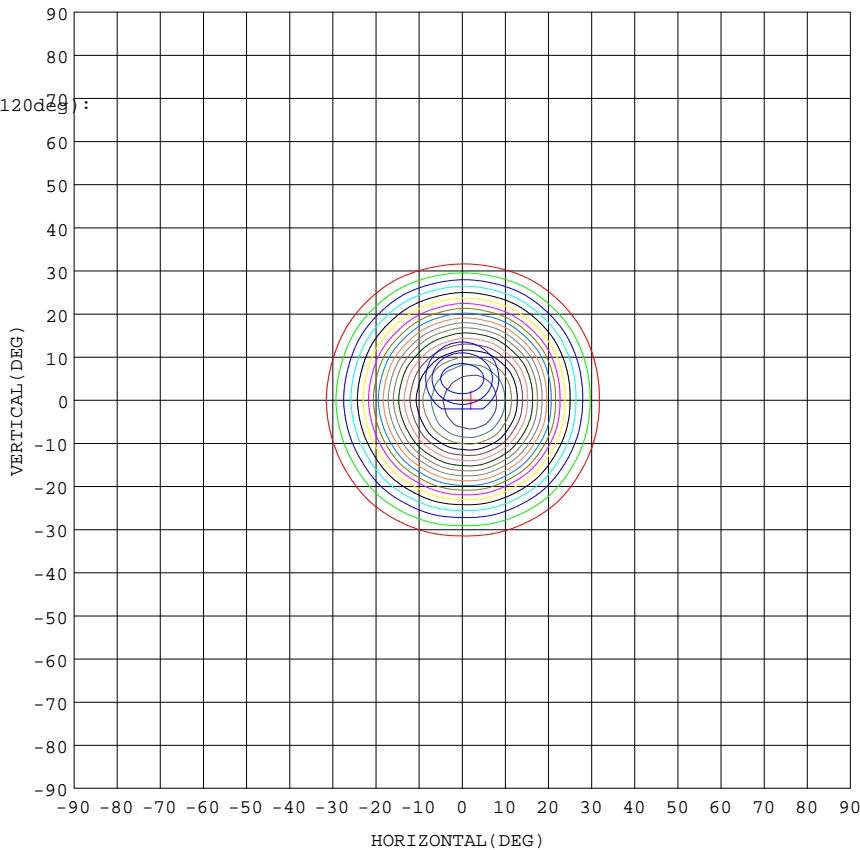
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Conical surface Flux(90deg):

310.36 lm
%lum = 99.9%
%lamp = 99.9%

Conical surface Flux(120deg):

310.6 lm
%lum = 100.0%
%lamp = 100.0%



1. AVG=743.6,MIN=694.5
2. AVG=731.8,MIN=641.9
3. AVG=714.1,MIN=575.7

I_{max}:787.7(H2.0,V0.0)
(At:C=0.0,Gamma=2.0)

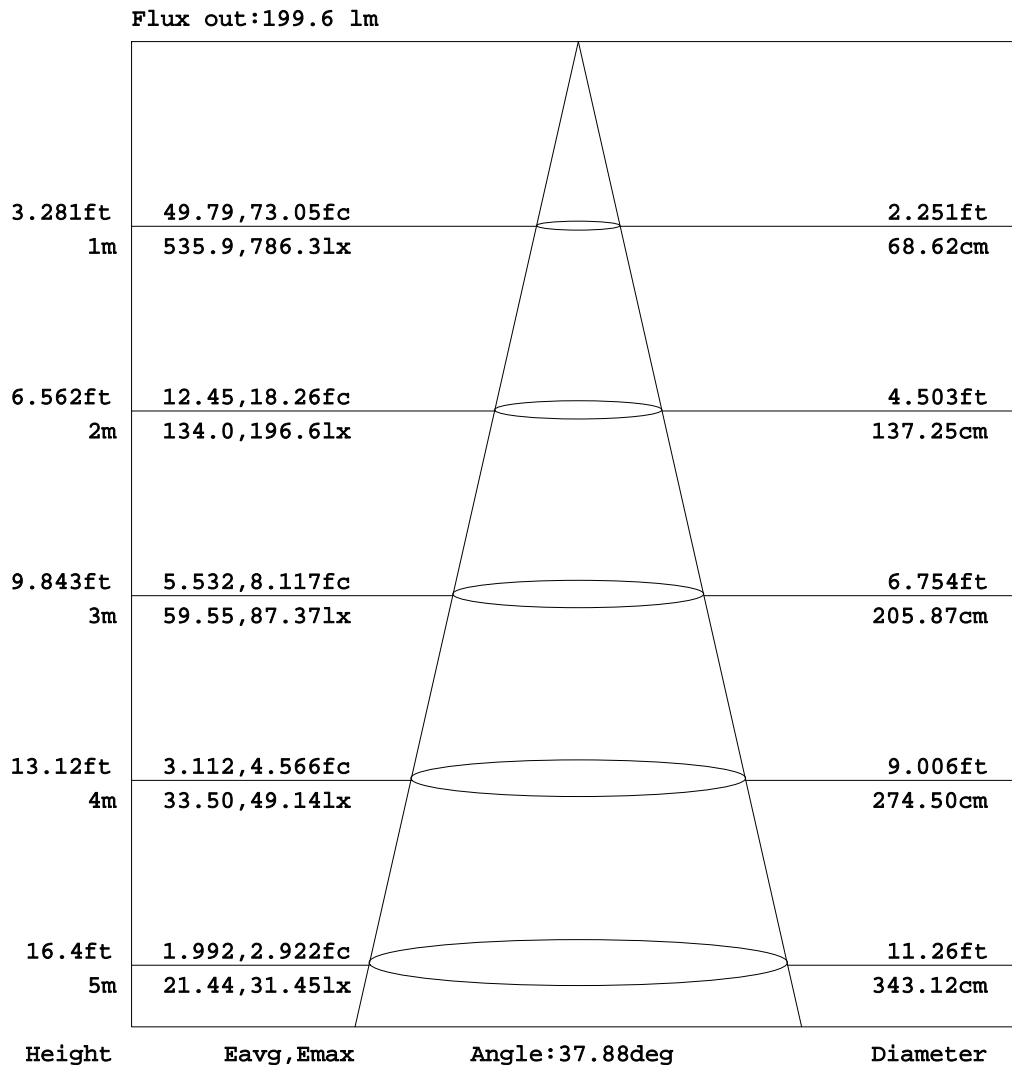
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AAI Figure

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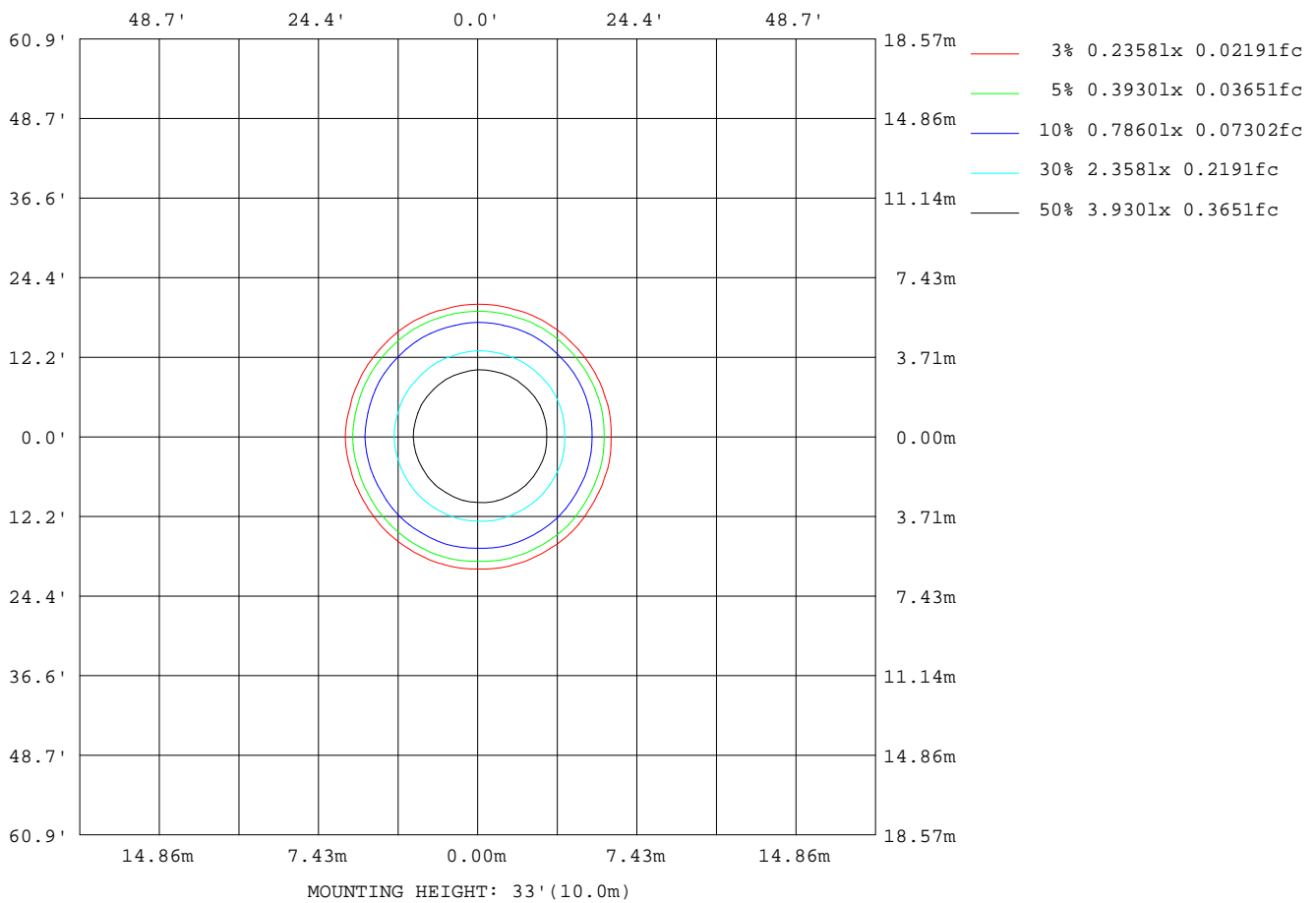
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

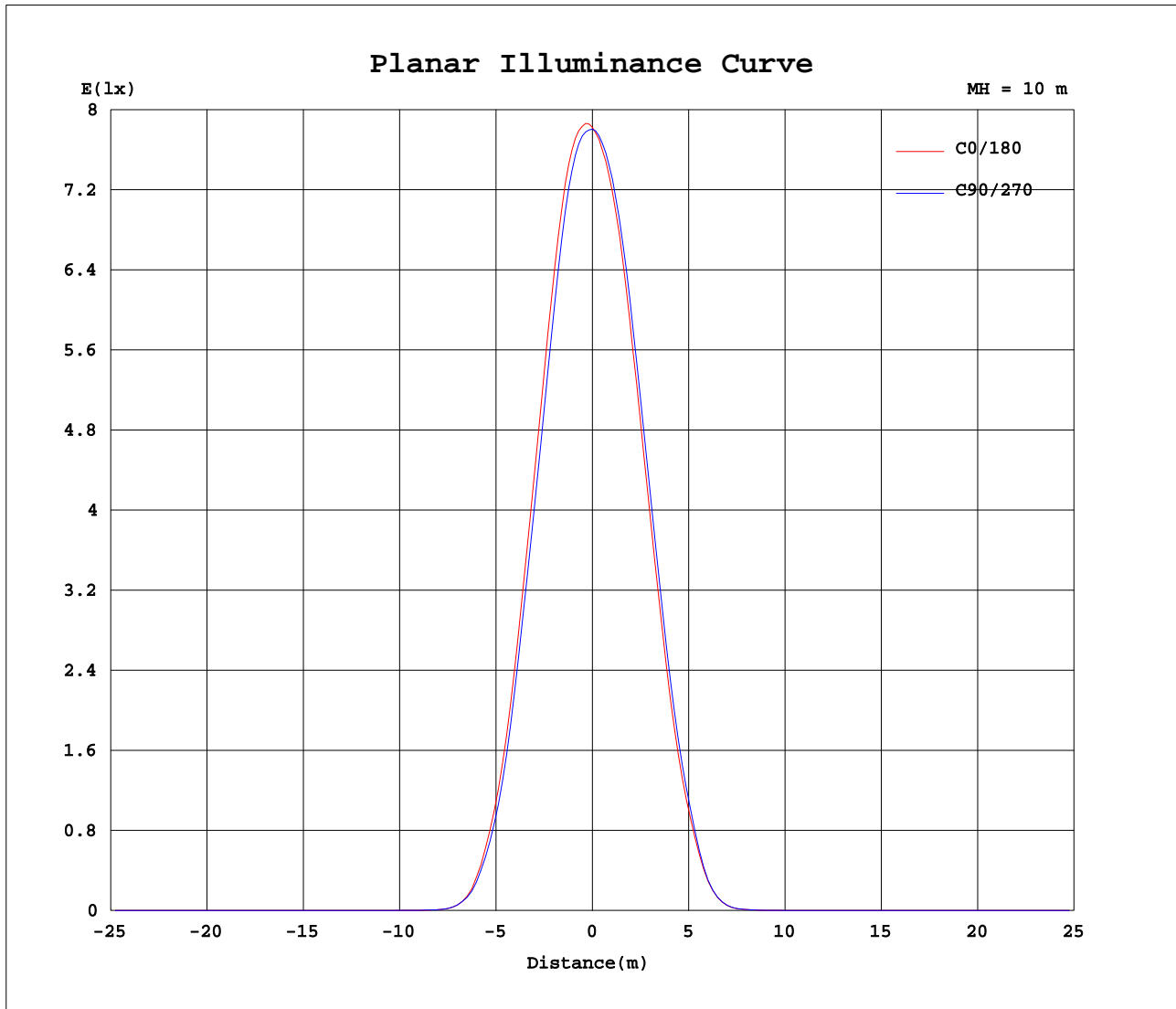
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Planar Illuminance Curve



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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	782.5	781.4	781.7	780.9	781.1	780.7	780.6	780.5	780.4	780.2
3.0	786.6	787.2	785.7	783.3	781.7	779.2	776.9	772.6	768.6	765.9
6.0	772.7	774.7	773.0	770.8	765.4	760.5	751.9	749.1	740.9	736.9
9.0	727.7	730.9	726.4	724.9	715.3	707.8	696.6	692.7	684.0	680.5
12.0	652.6	652.9	646.7	646.7	634.2	626.9	613.5	610.3	600.0	597.9
15.0	556.3	557.0	548.9	546.5	535.5	530.2	516.6	512.7	502.7	502.3
18.0	451.7	454.9	445.6	442.4	431.5	427.8	416.3	411.8	400.9	401.3
21.0	339.5	343.9	335.4	332.4	321.9	320.4	309.5	306.4	296.1	297.1
24.0	229.4	231.2	224.3	223.8	215.0	212.4	203.9	204.3	198.1	199.0
27.0	140.5	141.7	135.4	137.2	129.9	129.6	122.4	125.1	120.7	123.1
30.0	71.13	71.29	68.85	71.00	68.22	66.46	62.94	63.85	62.49	60.98
33.0	24.59	25.41	24.51	25.77	24.95	24.52	22.67	22.98	21.95	21.93
36.0	6.224	6.951	6.911	7.246	6.826	7.029	6.494	6.386	6.015	6.141
39.0	1.826	1.949	1.915	2.029	1.963	1.958	1.807	1.864	1.890	1.955
42.0	0.6469	0.6829	0.7068	0.7234	0.7138	0.7339	0.7026	0.6510	0.6468	0.6383
45.0	0.3864	0.4000	0.4312	0.4340	0.4397	0.4319	0.4204	0.3788	0.3927	0.3724
48.0	0.2602	0.2638	0.2922	0.2873	0.3008	0.2937	0.2943	0.2575	0.2751	0.2533
51.0	0.1898	0.1788	0.2133	0.2022	0.2219	0.2086	0.2197	0.1894	0.2068	0.1831
54.0	0.1386	0.1341	0.1600	0.1490	0.1727	0.1596	0.1727	0.1426	0.1599	0.1405
57.0	0.1109	0.1001	0.1237	0.1107	0.1343	0.1192	0.1365	0.1107	0.1279	0.1086
60.0	0.0874	0.0745	0.1002	0.0873	0.1088	0.1000	0.1130	0.0894	0.1087	0.0830
63.0	0.0704	0.0574	0.0810	0.0660	0.0895	0.0745	0.0938	0.0681	0.0874	0.0660
66.0	0.0575	0.0405	0.0661	0.0511	0.0767	0.0618	0.0767	0.0638	0.0746	0.0553
69.0	0.0448	0.0277	0.0575	0.0404	0.0660	0.0447	0.0661	0.0447	0.0660	0.0383
72.0	0.0320	0.0234	0.0469	0.0319	0.0533	0.0340	0.0575	0.0362	0.0533	0.0298
75.0	0.0298	0.0128	0.0384	0.0277	0.0427	0.0256	0.0469	0.0298	0.0469	0.0298
78.0	0.0171	0.0064	0.0320	0.0149	0.0362	0.0213	0.0405	0.0234	0.0384	0.0170
81.0	0.0086	0.0043	0.0256	0.0107	0.0277	0.0085	0.0277	0.0085	0.0320	0.0085
84.0	0.0085	0.0043	0.0171	0.0085	0.0192	0.0085	0.0213	0.0085	0.0192	0.0085
87.0	0.0085	0.0043	0.0128	0.0085	0.0128	0.0085	0.0149	0.0085	0.0128	0.0085
90.0	0.0085	0.0043	0.0085	0.0085	0.0085	0.0085	0.0085	0.0085	0.0085	0.0085
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	780.1	780.1	782.5	781.4	781.7	780.9	781.1	780.7	780.6	780.5
3.0	763.5	761.5	762.4	761.0	760.9	760.8	763.1	766.1	769.2	772.1
6.0	729.8	727.6	728.8	724.9	726.6	726.7	731.9	734.7	742.1	746.9
9.0	672.9	671.3	673.4	669.4	674.2	676.0	681.5	683.0	691.7	698.6
12.0	589.4	589.3	594.6	592.0	597.7	599.9	606.4	608.5	618.9	625.3
15.0	495.3	497.9	503.9	501.5	506.8	506.5	515.3	518.2	530.7	535.9
18.0	396.5	398.3	405.0	403.2	408.9	407.1	415.6	419.4	431.9	435.4
21.0	292.4	294.7	301.2	298.5	305.2	303.0	311.8	314.1	325.6	327.5
24.0	195.0	199.6	206.0	204.0	210.1	209.3	216.7	217.3	225.7	226.8
27.0	119.1	124.4	129.9	127.3	132.2	132.4	137.7	137.7	142.7	143.4
30.0	59.28	60.18	64.18	62.44	62.26	63.87	66.04	66.45	67.67	67.87
33.0	20.53	20.95	22.50	20.64	21.83	20.93	22.55	21.57	23.02	22.84
36.0	5.543	5.507	5.664	5.264	5.781	5.580	6.000	5.589	5.953	5.665
39.0	1.911	1.947	2.007	1.906	2.009	2.031	2.106	1.960	1.918	1.877
42.0	0.6395	0.6362	0.6380	0.6218	0.6083	0.6088	0.6169	0.6391	0.6401	0.6096
45.0	0.3821	0.3702	0.3701	0.3755	0.3680	0.3861	0.3914	0.4159	0.3999	0.3925
48.0	0.2687	0.2447	0.2425	0.2580	0.2468	0.2686	0.2660	0.2942	0.2723	0.2708
51.0	0.2005	0.1703	0.1702	0.1856	0.1766	0.1962	0.1957	0.2196	0.1957	0.1962
54.0	0.1536	0.1277	0.1256	0.1450	0.1277	0.1514	0.1405	0.1663	0.1405	0.1493
57.0	0.1236	0.0958	0.0957	0.1151	0.0936	0.1193	0.1022	0.1279	0.1043	0.1130
60.0	0.0959	0.0724	0.0681	0.0916	0.0681	0.0917	0.0787	0.1002	0.0766	0.0917
63.0	0.0789	0.0574	0.0553	0.0725	0.0595	0.0725	0.0639	0.0810	0.0618	0.0746
66.0	0.0682	0.0362	0.0340	0.0576	0.0362	0.0576	0.0469	0.0682	0.0468	0.0618
69.0	0.0533	0.0255	0.0297	0.0469	0.0298	0.0533	0.0362	0.0575	0.0362	0.0575
72.0	0.0405	0.0149	0.0106	0.0384	0.0276	0.0426	0.0320	0.0490	0.0298	0.0469
75.0	0.0341	0.0085	0.0043	0.0299	0.0149	0.0384	0.0255	0.0384	0.0255	0.0384
78.0	0.0277	0.0085	0.0043	0.0234	0.0064	0.0298	0.0106	0.0320	0.0106	0.0341
81.0	0.0235	0.0085	0.0043	0.0192	0.0064	0.0235	0.0042	0.0235	0.0043	0.0234
84.0	0.0192	0.0085	0.0043	0.0150	0.0064	0.0150	0.0021	0.0171	0.0043	0.0192
87.0	0.0149	0.0085	0.0043	0.0107	0.0064	0.0128	0.0021	0.0149	0.0043	0.0107
90.0	0.0107	0.0085	0.0043	0.0064	0.0064	0.0064	0.0021	0.0043	0.0043	0.0064
G/C	300.0	315.0	330.0	345.0						
0.0	780.4	780.2	780.1	780.1						
3.0	777.6	779.3	782.5	785.0						
6.0	755.6	762.1	768.8	771.1						
9.0	711.5	717.9	727.4	728.5						
12.0	639.1	644.6	654.1	655.3						
15.0	549.2	552.0	562.2	561.2						
18.0	447.5	450.4	460.9	457.3						
21.0	338.4	340.4	349.6	345.3						

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	235.1	234.6	239.9	234.6
27.0	148.6	146.4	149.1	145.3
30.0	72.06	70.13	73.15	72.56
33.0	24.43	23.59	25.68	25.18
36.0	6.095	6.037	6.723	6.391
39.0	1.936	1.865	1.847	1.829
42.0	0.5977	0.6097	0.5955	0.6124
45.0	0.3680	0.3818	0.3573	0.3712
48.0	0.2468	0.2623	0.2340	0.2474
51.0	0.1723	0.1940	0.1617	0.1791
54.0	0.1319	0.1471	0.1171	0.1343
57.0	0.0958	0.1172	0.0872	0.1002
60.0	0.0702	0.0916	0.0639	0.0810
63.0	0.0617	0.0725	0.0510	0.0661
66.0	0.0447	0.0618	0.0383	0.0575
69.0	0.0362	0.0533	0.0277	0.0448
72.0	0.0298	0.0469	0.0297	0.0362
75.0	0.0255	0.0363	0.0128	0.0277
78.0	0.0149	0.0320	0.0085	0.0213
81.0	0.0043	0.0256	0.0043	0.0149
84.0	0.0043	0.0171	0.0043	0.0107
87.0	0.0043	0.0107	0.0043	0.0085
90.0	0.0043	0.0064	0.0043	0.0064

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: