

LED Downlight FUSION Series FF2-4W-840-24D Black



Light Output Ratio:	100.0%	
Luminaire Power:	5.615 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

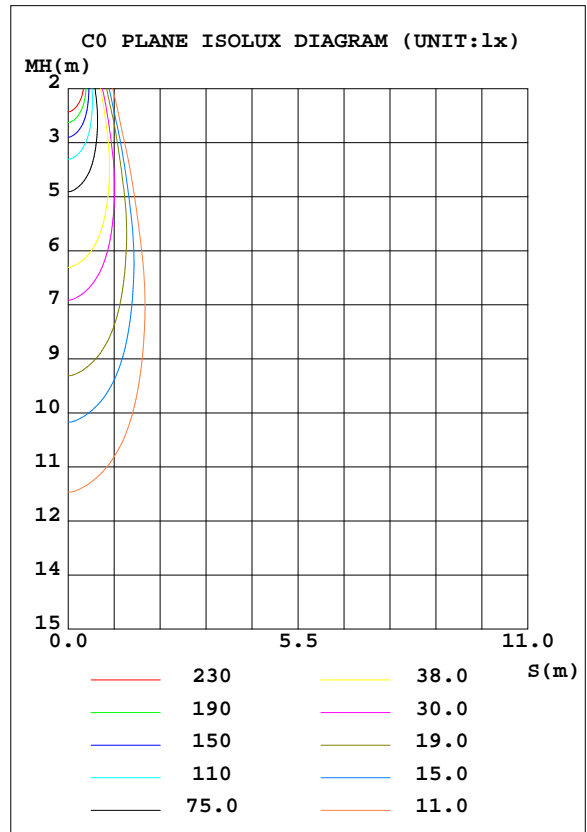
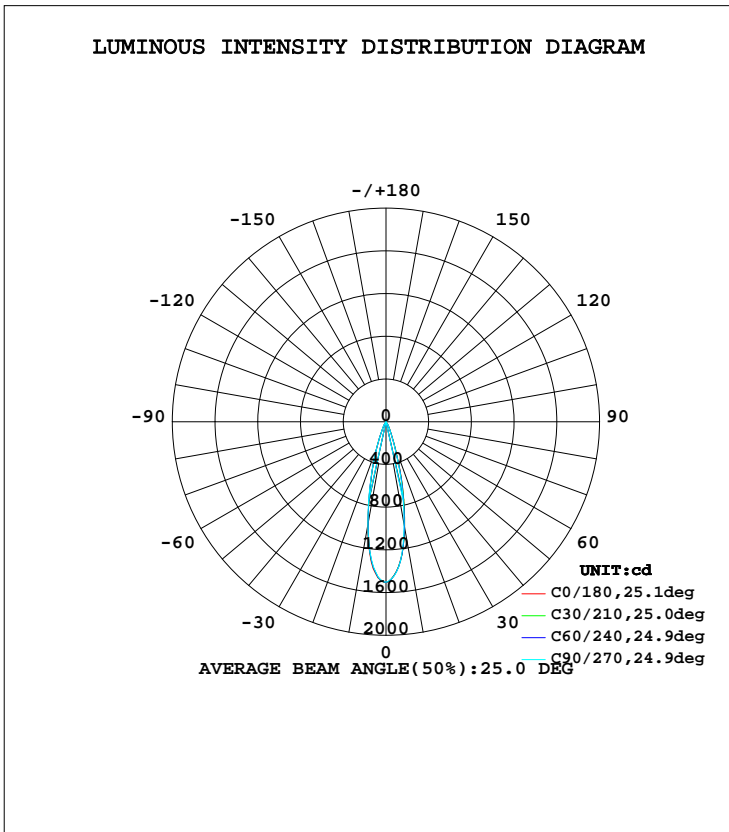
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-10

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:0.0326A P:5.615W PF:0.7800 Lamp Flux:324.375x1 lm		
NAME: FF2-4W-840-24D Black	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L70mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 57.77 lm/W			
MODEL	CREE-4000K	I _{max} (cd)	1506	S/MH(C0/180)	0.42
NOMINAL POWER(W)	6.0	LOR(%)	100.0	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	324.38	η UP, DN(C0-180)	0.0, 49.7
NOMINAL FLUX(lm)	324.375	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.3
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



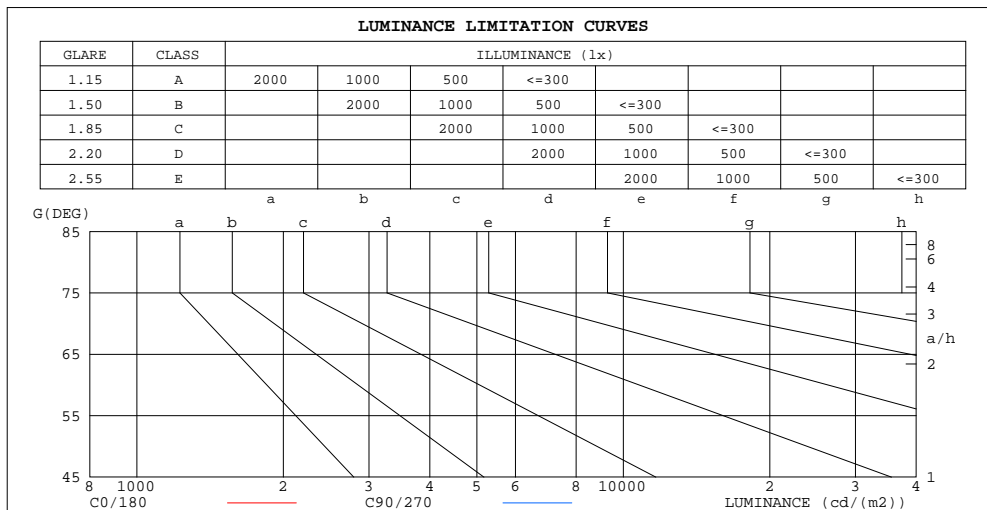
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1006	1011	975.8	970.7	976.7	957.8	977.8	999.6	0- 10	118.0	118.0	36.4,36.4
20	231.6	229.3	215.5	235.6	240.6	243.8	247.7	249.1	10- 20	149.2	267.2	82.4,82.4
30	48.15	47.85	45.80	44.83	43.95	44.31	46.61	49.59	20- 30	48.07	315.3	97.2,97.2
40	1.712	1.832	1.741	1.653	1.692	1.856	1.938	1.896	30- 40	8.791	324.0	99.9,99.9
50	0.1029	0.0830	0.1051	0.0699	0.0610	0.0788	0.0634	0.1006	40- 50	0.2398	324.3	100,100
60	0.0459	0.0284	0.0481	0.0284	0.0131	0.0328	0.0240	0.0459	50- 60	0.0455	324.3	100,100
70	0.0241	0.0087	0.0284	0.0087	0.0066	0.0240	0.0066	0.0241	60- 70	0.0214	324.4	100,100
80	0.0131	0.0087	0.0153	0.0087	0.0066	0.0109	0.0066	0.0153	70- 80	0.0135	324.4	100,100
90	0.0087	0.0087	0.0109	0.0087	0.0066	0.0066	0.0066	0.0044	80- 90	0.0103	324.4	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		



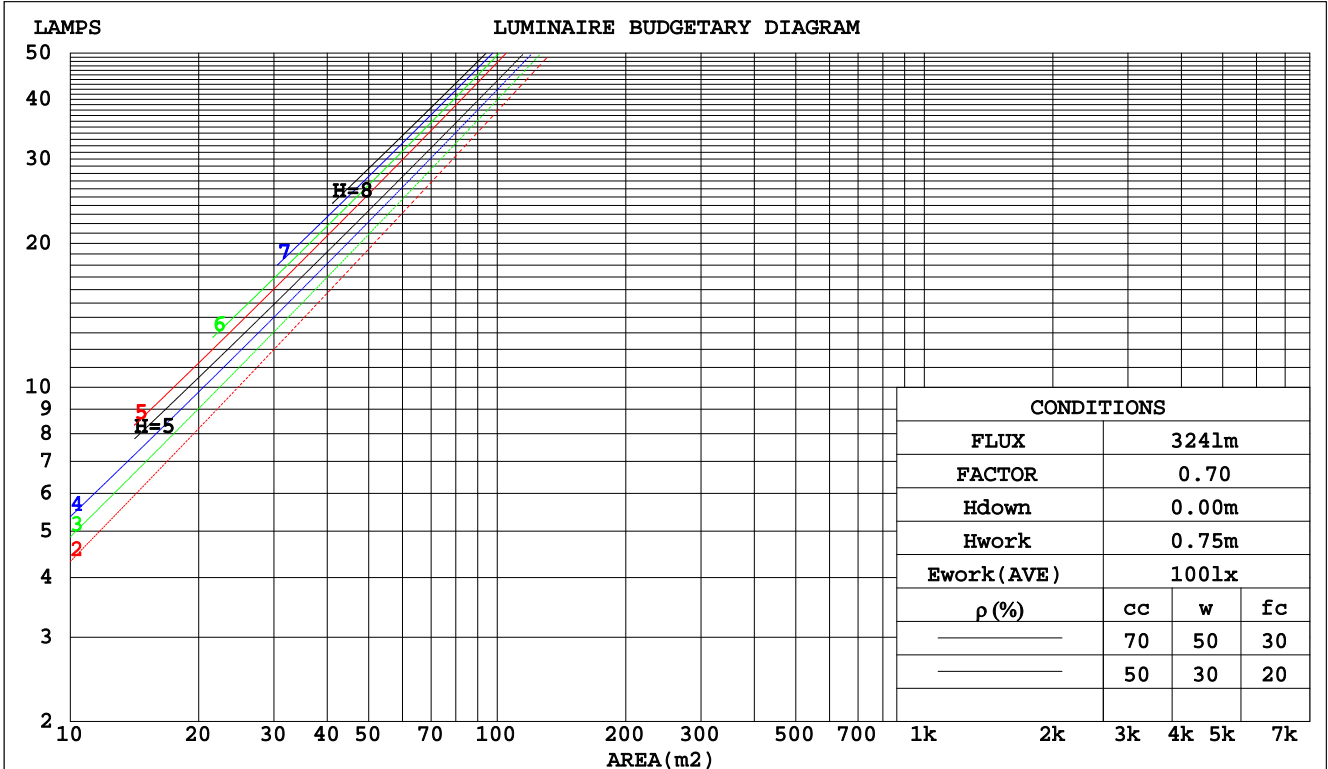
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0326A P:5.615W PF:0.7800 Lamp Flux:324.375x1 lm		
NAME: FF2-4W-840-24D Black	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L70mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

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	1.00
1.0	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.01	.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.06	1.04	1.02	1.03	1.01	.99	1.00	.99	.97	.98	.96	.95	.94
3.0	1.04	1.00	.97	1.02	.99	.97	.00	.97	.95	.98	.95	.94	.95	.94	.92	.91
4.0	.00	.96	.93	.99	.95	.92	.97	.94	.91	.95	.92	.90	.93	.91	.89	.88
5.0	.96	.92	.89	.95	.92	.89	.94	.91	.88	.92	.90	.88	.91	.89	.87	.86
6.0	.93	.89	.86	.92	.89	.86	.91	.88	.85	.90	.87	.85	.89	.86	.84	.83
7.0	.90	.86	.83	.90	.86	.83	.89	.85	.83	.88	.85	.82	.87	.84	.82	.81
8.0	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.85	.82	.80	.79
9.0	.85	.81	.79	.85	.81	.78	.84	.81	.78	.83	.80	.78	.83	.80	.78	.77
10.0	.83	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.76	.81	.78	.76	.75



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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	.133	.076	.024	.127	.072	.023	.114	.066	.021	.103	.059	.019	.092	.054	.017	
2.0	.123	.067	.021	.118	.065	.020	.108	.060	.019	.098	.055	.017	.089	.051	.016	
3.0	.115	.061	.018	.110	.059	.018	.102	.055	.017	.094	.051	.016	.086	.048	.015	
4.0	.107	.056	.016	.103	.054	.016	.096	.051	.015	.090	.048	.015	.084	.045	.014	
5.0	.101	.051	.015	.098	.050	.015	.092	.048	.014	.086	.045	.014	.081	.043	.013	
6.0	.096	.048	.014	.093	.047	.013	.088	.045	.013	.083	.043	.013	.078	.041	.012	
7.0	.091	.045	.013	.088	.044	.013	.084	.042	.012	.080	.041	.012	.076	.039	.012	
8.0	.087	.042	.012	.085	.042	.012	.081	.040	.011	.077	.039	.011	.073	.038	.011	
9.0	.083	.040	.011	.081	.039	.011	.078	.038	.011	.074	.037	.011	.071	.036	.010	
10.0	.079	.038	.011	.078	.038	.010	.075	.037	.010	.072	.036	.010	.069	.035	.010	

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	.168	.158	.148	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.128	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.115	.098	.083	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.122	.098	.079	.105	.085	.069	.072	.059	.049	.042	.035	.029	.013	.011	.009	
5.0	.111	.085	.066	.096	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.102	.075	.056	.088	.065	.049	.061	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.095	.067	.048	.081	.058	.042	.056	.041	.030	.033	.024	.018	.011	.008	.006	
8.0	.088	.060	.041	.076	.052	.036	.052	.037	.026	.031	.022	.015	.010	.007	.005	
9.0	.082	.055	.036	.071	.047	.031	.049	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.078	.050	.032	.067	.043	.028	.046	.031	.020	.027	.018	.012	.009	.006	.004	

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 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

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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	3.0	3.7	3.2	3.8	4.0	2.9	3.5	3.1	3.7	3.8
3H	2.9	3.5	3.1	3.7	3.9	2.8	3.4	3.0	3.5	3.7
4H	2.8	3.4	3.1	3.6	3.8	2.7	3.3	2.9	3.5	3.7
6H	2.7	3.3	3.0	3.5	3.7	2.6	3.1	2.9	3.4	3.6
8H	2.7	3.2	3.0	3.5	3.7	2.6	3.1	2.9	3.3	3.6
12H	2.7	3.1	3.0	3.4	3.7	2.5	3.0	2.8	3.3	3.5
4H 2H	2.8	3.4	3.1	3.6	3.8	2.7	3.2	2.9	3.5	3.7
3H	2.7	3.1	3.0	3.4	3.7	2.5	3.0	2.8	3.3	3.5
4H	2.6	3.0	2.9	3.3	3.6	2.4	2.9	2.8	3.2	3.5
6H	2.5	2.9	2.8	3.2	3.5	2.3	2.7	2.7	3.0	3.4
8H	2.4	2.8	2.8	3.1	3.5	2.3	2.6	2.7	3.0	3.3
12H	2.3	2.7	2.7	3.1	3.4	2.2	2.6	2.6	2.9	3.3
8H 4H	2.4	2.8	2.8	3.1	3.5	2.3	2.6	2.7	3.0	3.3
6H	2.3	2.6	2.7	3.0	3.4	2.2	2.5	2.6	2.9	3.3
8H	2.2	2.5	2.7	2.9	3.4	2.1	2.4	2.5	2.8	3.2
12H	2.2	2.4	2.6	2.8	3.3	2.0	2.3	2.5	2.7	3.2
12H 4H	2.3	2.7	2.7	3.1	3.4	2.2	2.6	2.6	2.9	3.3
6H	2.2	2.5	2.7	2.9	3.3	2.1	2.4	2.5	2.8	3.2
8H	2.2	2.4	2.6	2.8	3.3	2.0	2.3	2.5	2.7	3.2
Variations with the observer position at spacings:										
S = 1.0H	+ 4.2 / -12.4					+ 4.2 / -13.0				
1.5H	+ 6.9 / -11.9					+ 7.0 / -12.3				
2.0H	+ 3.5 / - 1.8					+ 3.1 / - 1.7				

CIE Pub.117 Corrected 324.4 lm Total Lamp Luminous Flux. (8log(F/F0) = -3.9)

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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	106	101	98	105	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	105	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

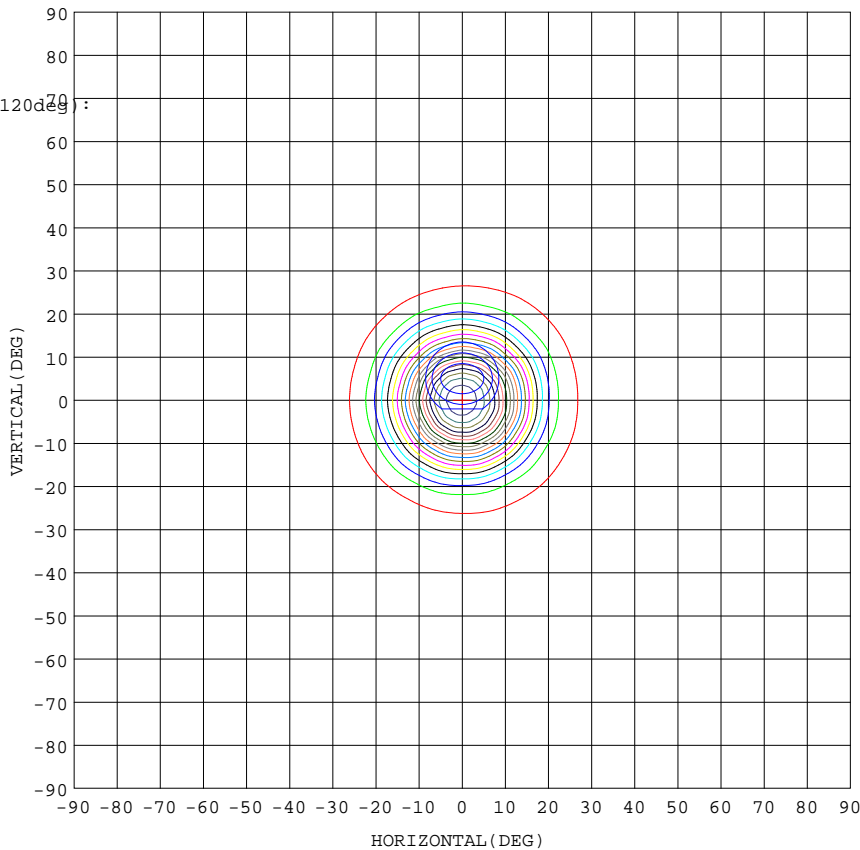
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Conical surface Flux(90deg):

324.24 lm
%lum = 100.0%
%lamp = 100.0%

Conical surface Flux(120deg):

324.33 lm
%lum = 100.0%
%lamp = 100.0%



- 5% 75.32
- 10% 150.6
- 15% 226.0
- 20% 301.3
- 25% 376.6
- 30% 451.9
- 35% 527.2
- 40% 602.5
- 45% 677.9
- 50% 753.2
- 55% 828.5
- 60% 903.8
- 65% 979.1
- 70% 1054
- 75% 1130
- 80% 1205
- 85% 1280
- 90% 1356
- 95% 1431

- 1. AVG=1311,MIN=1108
- 2. AVG=1252,MIN=886.0
- 3. AVG=1177,MIN=664.9

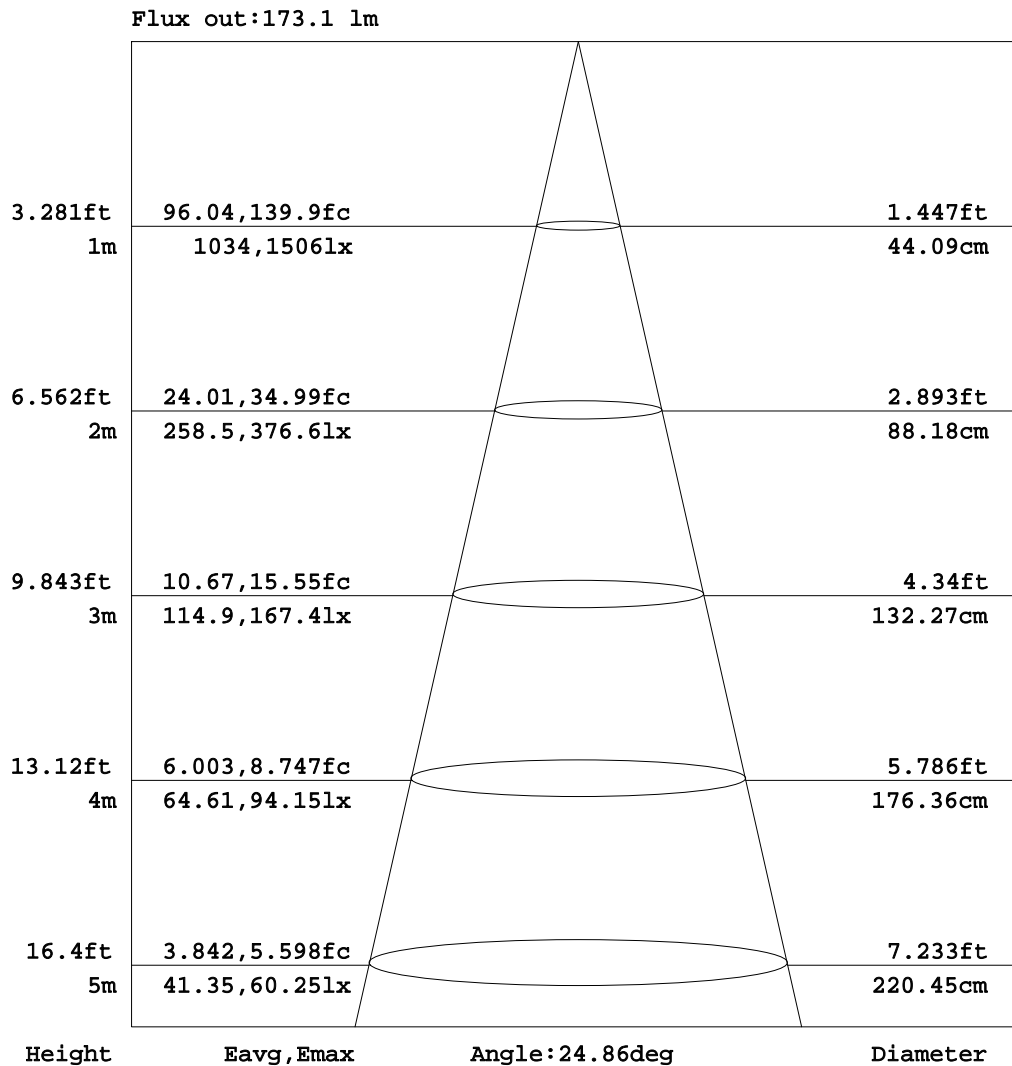
Imax:1506(H0.0,V0.0)
(At:C=0.0,Gamma=0.0)
UNIT: cd

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AAI Figure

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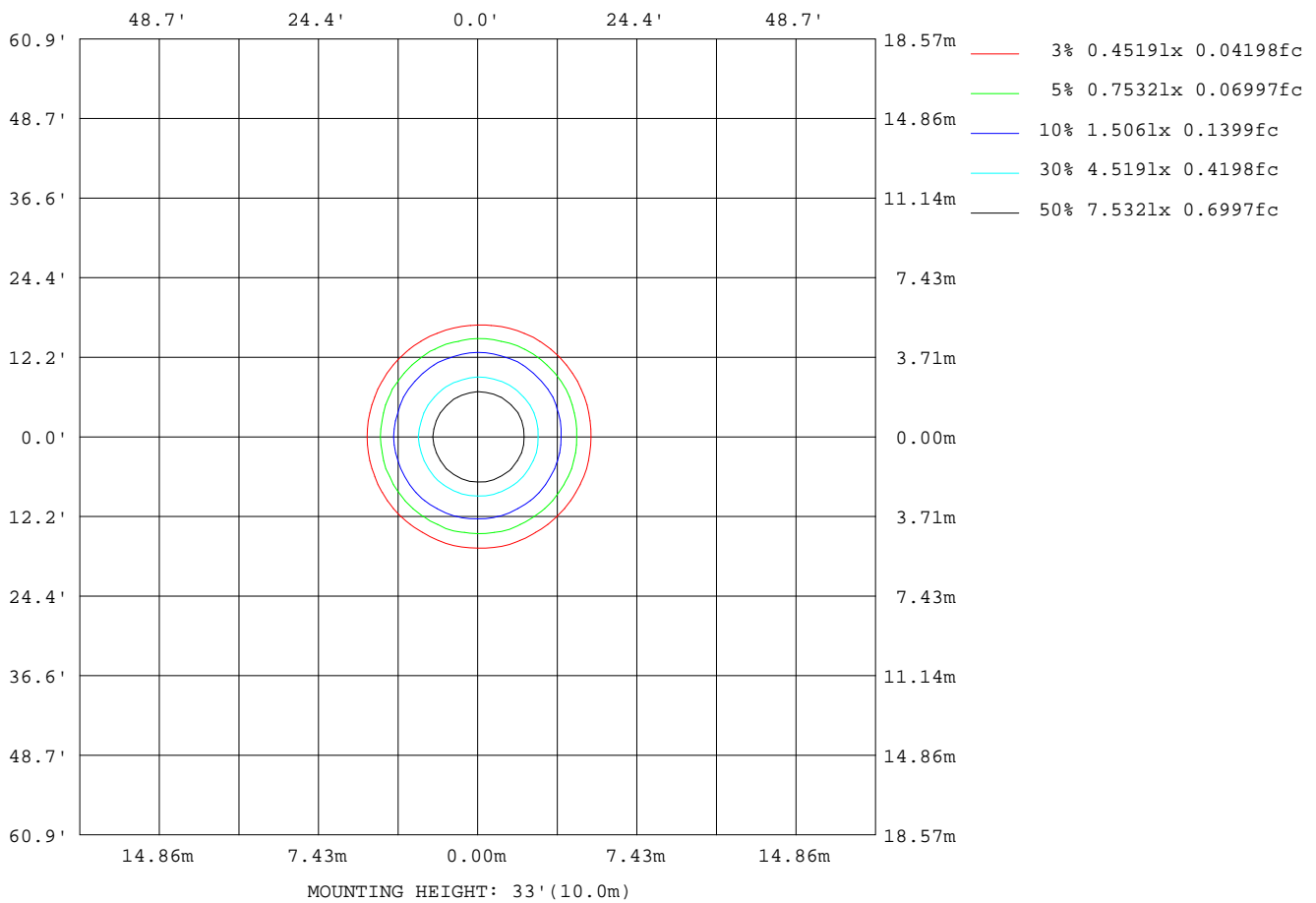
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

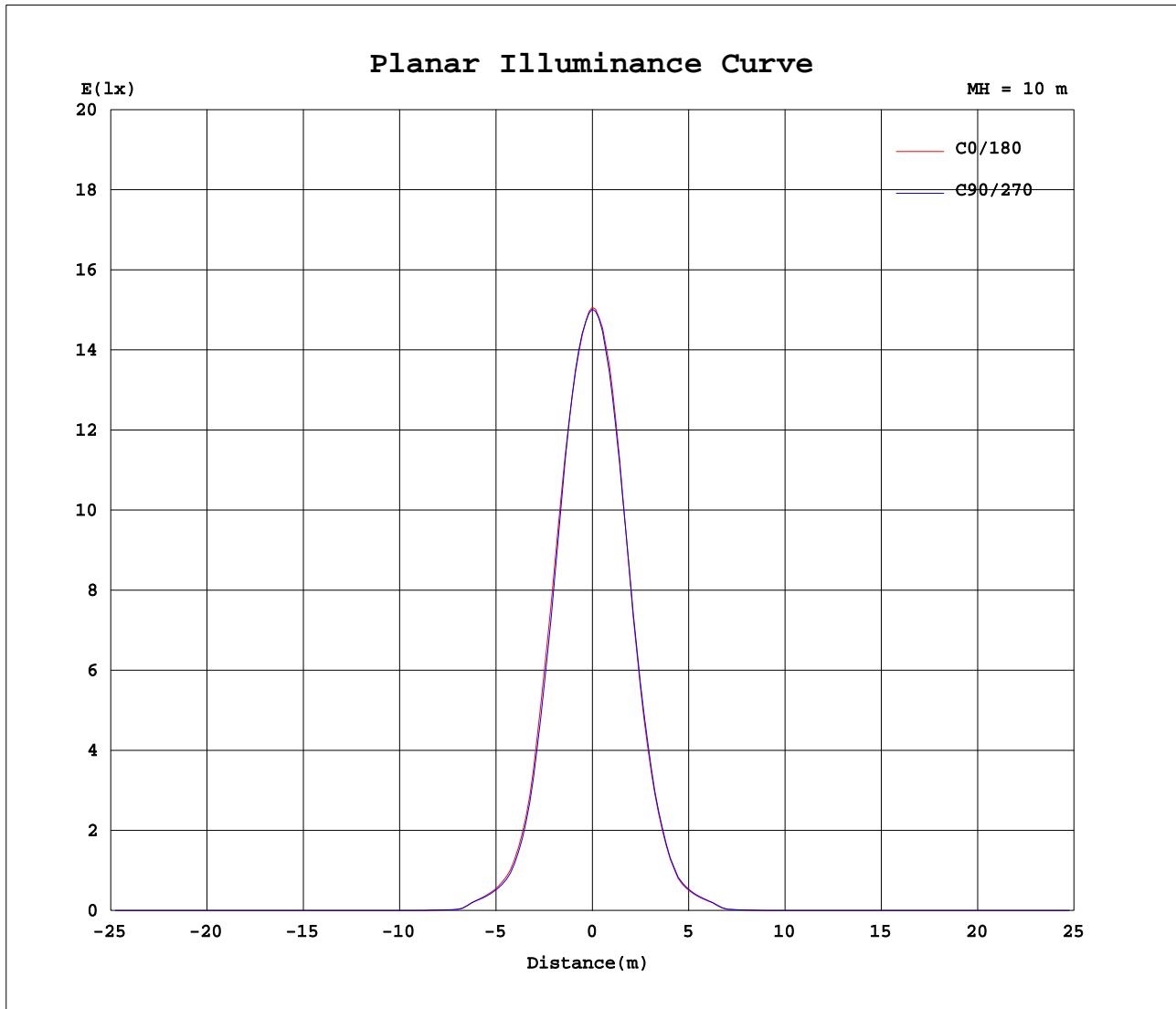
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Planar Illuminance Curve



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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	1506	1506	1505	1504	1504	1503	1502	1502	1501	1501
3.0	1443	1447	1442	1446	1443	1450	1447	1453	1449	1453
6.0	1303	1313	1307	1316	1308	1317	1306	1315	1305	1313
9.0	1092	1105	1093	1101	1084	1091	1070	1075	1059	1067
12.0	826.8	836.5	824.1	828.3	807.7	810.8	789.7	793.5	777.6	783.6
15.0	570.4	578.0	563.7	567.9	550.3	551.8	535.0	539.9	528.4	534.2
18.0	333.8	337.2	326.9	330.5	318.8	322.7	314.3	324.0	320.8	329.9
21.0	193.0	195.1	189.7	190.7	183.5	184.2	179.2	185.7	185.5	193.6
24.0	112.0	112.1	109.8	109.1	105.8	105.4	103.0	102.8	101.1	103.4
27.0	72.75	73.54	71.73	71.14	69.29	70.02	68.58	67.65	66.28	66.35
30.0	48.15	49.38	48.12	47.85	46.92	47.45	45.80	45.45	44.34	44.83
33.0	21.18	22.65	21.42	22.80	21.32	22.19	20.62	20.54	18.76	19.65
36.0	4.133	4.249	4.488	4.713	4.640	4.662	4.521	4.538	4.544	4.529
39.0	2.094	2.125	2.354	2.482	2.452	2.412	2.367	2.296	2.295	2.290
42.0	0.3691	0.3471	0.3509	0.3297	0.3418	0.3275	0.3332	0.3034	0.3210	0.2968
45.0	0.1972	0.1747	0.1949	0.1703	0.1883	0.1703	0.1840	0.1594	0.1796	0.1464
48.0	0.1313	0.1092	0.1336	0.1313	0.1313	0.1114	0.1270	0.1005	0.1247	0.0939
51.0	0.0898	0.0721	0.0942	0.0721	0.0920	0.0742	0.0920	0.0677	0.0898	0.0612
54.0	0.0700	0.0481	0.0722	0.0481	0.0723	0.0524	0.0722	0.0481	0.0700	0.0437
57.0	0.0525	0.0328	0.0591	0.0349	0.0591	0.0371	0.0569	0.0328	0.0526	0.0306
60.0	0.0459	0.0241	0.0459	0.0284	0.0481	0.0284	0.0481	0.0328	0.0481	0.0284
63.0	0.0372	0.0174	0.0372	0.0262	0.0394	0.0241	0.0437	0.0218	0.0351	0.0131
66.0	0.0306	0.0131	0.0328	0.0109	0.0350	0.0109	0.0328	0.0109	0.0306	0.0087
69.0	0.0284	0.0087	0.0263	0.0087	0.0284	0.0087	0.0284	0.0109	0.0263	0.0087
72.0	0.0219	0.0087	0.0241	0.0087	0.0241	0.0087	0.0241	0.0109	0.0241	0.0087
75.0	0.0175	0.0087	0.0197	0.0087	0.0219	0.0087	0.0197	0.0109	0.0175	0.0087
78.0	0.0153	0.0087	0.0175	0.0087	0.0175	0.0087	0.0175	0.0109	0.0175	0.0087
81.0	0.0088	0.0087	0.0154	0.0087	0.0153	0.0087	0.0153	0.0109	0.0153	0.0087
84.0	0.0087	0.0087	0.0131	0.0087	0.0153	0.0087	0.0131	0.0109	0.0131	0.0087
87.0	0.0087	0.0087	0.0131	0.0087	0.0131	0.0087	0.0110	0.0109	0.0131	0.0087
90.0	0.0087	0.0087	0.0109	0.0087	0.0109	0.0087	0.0109	0.0109	0.0087	0.0087
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1500	1500	1506	1505	1504	1504	1503	1502	1502	1501
3.0	1448	1451	1462	1455	1457	1454	1457	1448	1453	1446
6.0	1302	1306	1320	1308	1312	1302	1308	1295	1301	1296
9.0	1050	1059	1073	1057	1065	1054	1063	1052	1066	1065
12.0	766.6	771.7	783.0	768.5	776.2	768.1	781.8	776.7	794.3	792.7
15.0	519.7	523.7	533.6	521.3	530.6	525.7	538.0	531.3	548.2	550.3
18.0	323.7	328.1	337.6	331.9	341.0	337.4	344.7	337.1	345.8	342.8
21.0	190.9	193.6	199.2	194.8	203.0	199.8	204.0	198.6	204.0	202.9
24.0	102.4	102.2	105.5	104.2	106.4	105.6	107.5	106.5	109.6	111.0
27.0	66.65	65.64	66.73	66.47	66.90	67.77	68.25	68.76	69.87	71.91
30.0	44.36	43.66	43.95	43.50	44.43	44.31	45.41	45.32	46.61	47.63
33.0	19.59	19.12	20.83	19.35	20.30	20.58	22.04	21.11	22.71	22.88
36.0	4.369	4.538	4.745	4.809	4.822	4.913	4.993	4.837	4.891	4.845
39.0	2.214	2.152	2.310	2.344	2.506	2.512	2.619	2.460	2.538	2.420
42.0	0.2923	0.2727	0.2856	0.3033	0.2966	0.3161	0.3054	0.3286	0.3293	0.3418
45.0	0.1533	0.1266	0.1309	0.1511	0.1309	0.1511	0.1353	0.1621	0.1440	0.1686
48.0	0.1072	0.0786	0.0742	0.1007	0.0785	0.1007	0.0808	0.1094	0.0873	0.1138
51.0	0.0766	0.0502	0.0459	0.0722	0.0459	0.0722	0.0502	0.0766	0.0589	0.0810
54.0	0.0612	0.0328	0.0284	0.0547	0.0328	0.0569	0.0328	0.0591	0.0371	0.0613
57.0	0.0481	0.0306	0.0240	0.0416	0.0219	0.0416	0.0284	0.0460	0.0284	0.0503
60.0	0.0416	0.0131	0.0131	0.0306	0.0109	0.0328	0.0131	0.0372	0.0240	0.0416
63.0	0.0328	0.0066	0.0066	0.0263	0.0066	0.0284	0.0109	0.0306	0.0109	0.0328
66.0	0.0262	0.0066	0.0066	0.0219	0.0044	0.0262	0.0066	0.0263	0.0066	0.0284
69.0	0.0241	0.0066	0.0066	0.0197	0.0044	0.0219	0.0066	0.0219	0.0066	0.0262
72.0	0.0197	0.0066	0.0066	0.0153	0.0044	0.0197	0.0066	0.0197	0.0066	0.0219
75.0	0.0153	0.0066	0.0066	0.0131	0.0044	0.0175	0.0066	0.0175	0.0066	0.0175
78.0	0.0153	0.0066	0.0066	0.0110	0.0044	0.0131	0.0066	0.0153	0.0066	0.0153
81.0	0.0131	0.0066	0.0066	0.0088	0.0044	0.0109	0.0066	0.0131	0.0066	0.0131
84.0	0.0131	0.0066	0.0066	0.0087	0.0044	0.0087	0.0066	0.0110	0.0066	0.0109
87.0	0.0131	0.0066	0.0066	0.0087	0.0044	0.0087	0.0066	0.0131	0.0066	0.0088
90.0	0.0087	0.0087	0.0066	0.0066	0.0044	0.0066	0.0066	0.0066	0.0066	0.0066
G/C	300.0	315.0	330.0	345.0						
0.0	1501	1501	1500	1500						
3.0	1451	1446	1449	1440						
6.0	1308	1303	1313	1305						
9.0	1086	1085	1103	1096						
12.0	817.1	820.4	840.5	834.2						
15.0	571.0	568.9	586.4	579.9						
18.0	354.1	349.8	356.2	345.3						
21.0	210.3	207.0	210.9	201.6						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-06-10

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	115.6	116.1	118.7	115.2
27.0	74.88	75.58	76.10	74.06
30.0	49.62	49.59	50.06	48.77
33.0	25.18	24.46	24.65	22.80
36.0	5.078	4.982	4.998	4.514
39.0	2.542	2.575	2.654	2.315
42.0	0.3469	0.3705	0.3816	0.3807
45.0	0.1572	0.1840	0.1724	0.1971
48.0	0.0939	0.1226	0.1026	0.1291
51.0	0.0634	0.0854	0.0677	0.0919
54.0	0.0437	0.0678	0.0437	0.0678
57.0	0.0306	0.0547	0.0306	0.0525
60.0	0.0262	0.0459	0.0283	0.0416
63.0	0.0153	0.0372	0.0110	0.0372
66.0	0.0087	0.0284	0.0065	0.0306
69.0	0.0066	0.0262	0.0044	0.0241
72.0	0.0066	0.0197	0.0044	0.0197
75.0	0.0066	0.0197	0.0044	0.0132
78.0	0.0066	0.0153	0.0044	0.0131
81.0	0.0066	0.0131	0.0044	0.0131
84.0	0.0066	0.0131	0.0044	0.0131
87.0	0.0066	0.0131	0.0044	0.0109
90.0	0.0066	0.0044	0.0044	0.0109

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-10

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: