

LED Downlight FUSION Series FF1-2W-840-40D Black



Light Output Ratio:	100.0%	
Luminaire Power:	3.183 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

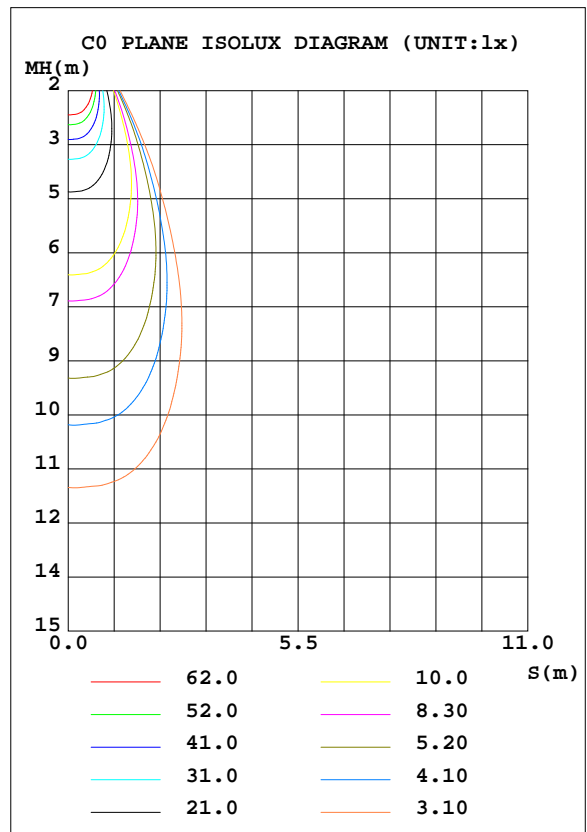
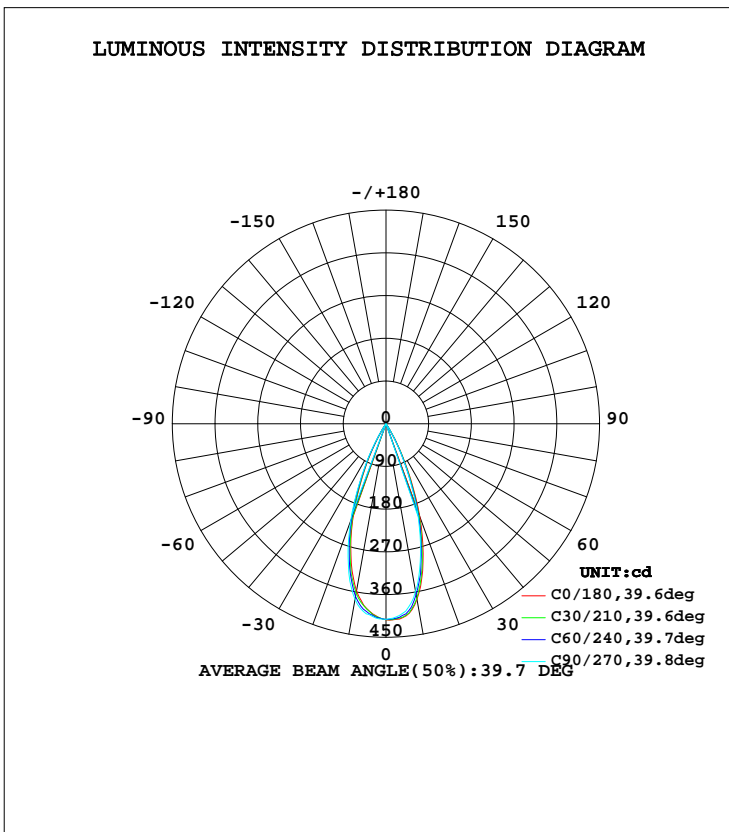
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-14

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:0.0203A P:3.183W PF:0.7112 Lamp Flux:173.567x1 lm		
NAME: FF1-2W-840-40D Black	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L45mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 54.53 lm/W
MODEL	CREE-4000K	I _{max} (cd)	413.9	S/MH(C0/180)	0.61	
NOMINAL POWER(W)	3.0	LOR(%)	100.0	S/MH(C90/270)	0.64	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	173.57	η UP, DN(C0-180)	0.0, 48.3	
NOMINAL FLUX(lm)	173.567	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 51.7	
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	



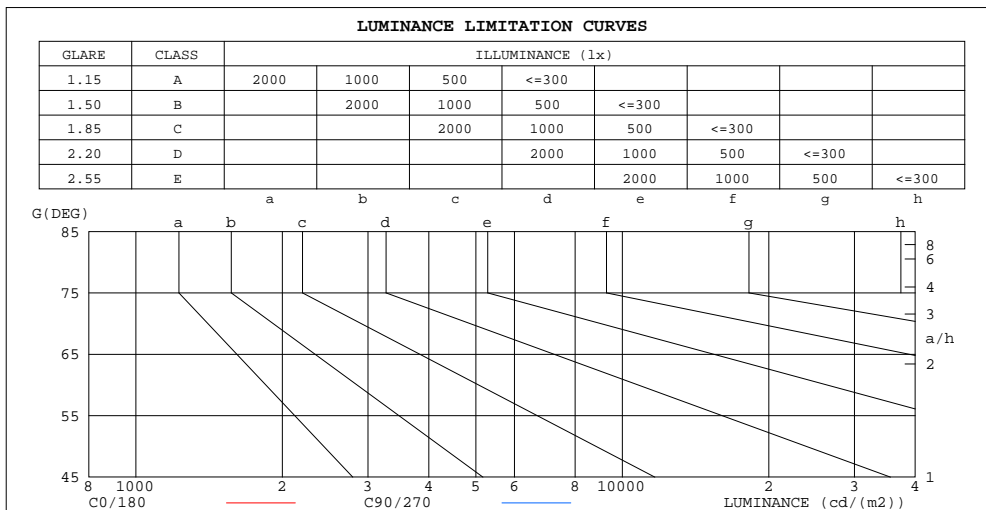
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	376.1	371.6	358.6	355.5	358.0	364.3	375.7	381.4	0- 10	37.42	37.42	21.6,21.6
20	208.7	199.8	190.4	190.8	197.6	204.4	218.7	217.7	10- 20	80.09	117.5	67.7,67.7
30	38.48	34.36	31.10	31.70	34.85	38.40	45.96	44.57	20- 30	49.97	167.5	96.5,96.5
40	0.7132	0.6361	0.5230	0.6377	0.6966	0.7218	0.7737	0.7902	30- 40	5.858	173.3	99.9,99.9
50	0.1073	0.0612	0.0766	0.0764	0.0786	0.0876	0.0611	0.1094	40- 50	0.1604	173.5	100,100
60	0.0416	0.0153	0.0285	0.0131	0.0218	0.0350	0.0109	0.0372	50- 60	0.0432	173.5	100,100
70	0.0241	0.0022	0.0175	0.0022	0	0.0131	0	0.0131	60- 70	0.0139	173.6	100,100
80	0.0088	0.0022	0.0066	0.0022	0	0.0066	0	0.0066	70- 80	0.0062	173.6	100,100
90	0.0044	0.0044	0.0022	0.0022	0	0	0	0	80- 90	0.0029	173.6	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	37	12
80	25	19
75	29	21
70	35	25
65	33	28
60	41	28
55	55	40
50	82	59
45	132	98

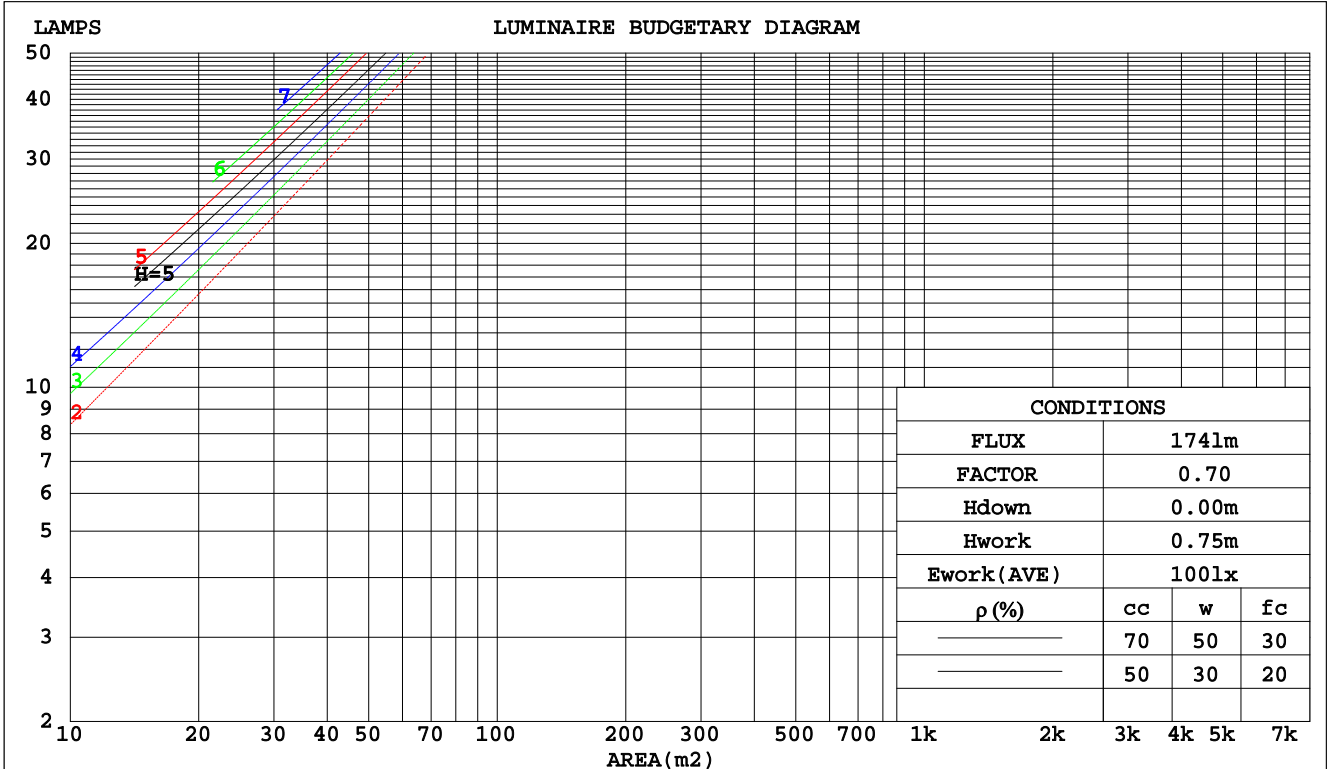
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:4000K	DIM.: L45mm*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																
pfc																
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	1.08	1.10	1.08	1.07	1.06	1.05	1.04	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	.93	.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	.85	.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	.74	.71	.77	.73	.71	.76	.73	.70	.69
10.0	.76	.71	.68	.76	.71	.68	.75	.71	.68	.74	.71	.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	.083	.026	.140	.080	.025	.128	.073	.023	.116	.067	.022	.106	.061	.020	
2.0	.137	.075	.023	.132	.073	.022	.121	.068	.021	.112	.063	.020	.103	.058	.018	
3.0	.129	.069	.021	.124	.067	.020	.116	.063	.019	.108	.059	.018	.100	.055	.017	
4.0	.122	.063	.019	.118	.062	.018	.110	.059	.017	.104	.056	.017	.097	.053	.016	
5.0	.115	.059	.017	.112	.058	.017	.106	.055	.016	.100	.053	.016	.094	.050	.015	
6.0	.110	.055	.016	.107	.054	.016	.102	.052	.015	.096	.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	.098	.048	.014	.094	.047	.013	.090	.046	.013	.086	.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	.053	.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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 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

Test:U:220.7V I:0.0203A P:3.183W PF:0.7112 Lamp Flux:173.567x1 lm		
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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	2.6	3.3	2.8	3.5	3.6	1.3	2.0	1.5	2.2	2.3
3H	2.4	3.1	2.7	3.3	3.5	1.1	1.8	1.4	2.0	2.2
4H	2.4	3.0	2.6	3.2	3.4	1.0	1.7	1.3	1.9	2.1
6H	2.3	2.9	2.6	3.1	3.4	1.0	1.6	1.2	1.8	2.0
8H	2.2	2.8	2.5	3.1	3.3	0.9	1.5	1.2	1.7	2.0
12H	2.2	2.7	2.5	3.0	3.3	0.9	1.4	1.2	1.7	2.0
4H 2H	2.4	3.0	2.6	3.2	3.4	1.0	1.7	1.3	1.9	2.1
3H	2.2	2.7	2.5	3.0	3.3	0.9	1.4	1.2	1.7	2.0
4H	2.1	2.6	2.4	2.9	3.2	0.8	1.3	1.1	1.6	1.9
6H	2.0	2.4	2.4	2.8	3.1	0.7	1.1	1.0	1.5	1.8
8H	1.9	2.4	2.3	2.7	3.1	0.6	1.0	1.0	1.4	1.8
12H	1.9	2.3	2.3	2.6	3.0	0.6	1.0	1.0	1.3	1.7
8H 4H	1.9	2.4	2.3	2.7	3.1	0.6	1.0	1.0	1.4	1.8
6H	1.8	2.2	2.3	2.6	3.0	0.5	0.9	0.9	1.3	1.7
8H	1.8	2.1	2.2	2.5	2.9	0.5	0.8	0.9	1.2	1.6
12H	1.7	2.0	2.2	2.4	2.9	0.4	0.7	0.9	1.1	1.6
12H 4H	1.9	2.3	2.3	2.6	3.0	0.6	1.0	1.0	1.3	1.7
6H	1.8	2.1	2.2	2.5	2.9	0.5	0.8	0.9	1.2	1.6
8H	1.7	2.0	2.2	2.4	2.9	0.4	0.7	0.9	1.1	1.6
Variations with the observer position at spacings:										
S = 1.0H	+ 5.5 / -11.8					+ 5.2 / -11.4				
1.5H	+ 8.1 / -10.3					+ 7.9 / -10.1				
2.0H	+ 4.9 / - 4.0					+ 4.9 / - 4.0				

CIE Pub.117 Corrected 173.6 lm Total Lamp Luminous Flux. (8log(F/F0) = -6.1)

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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:

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

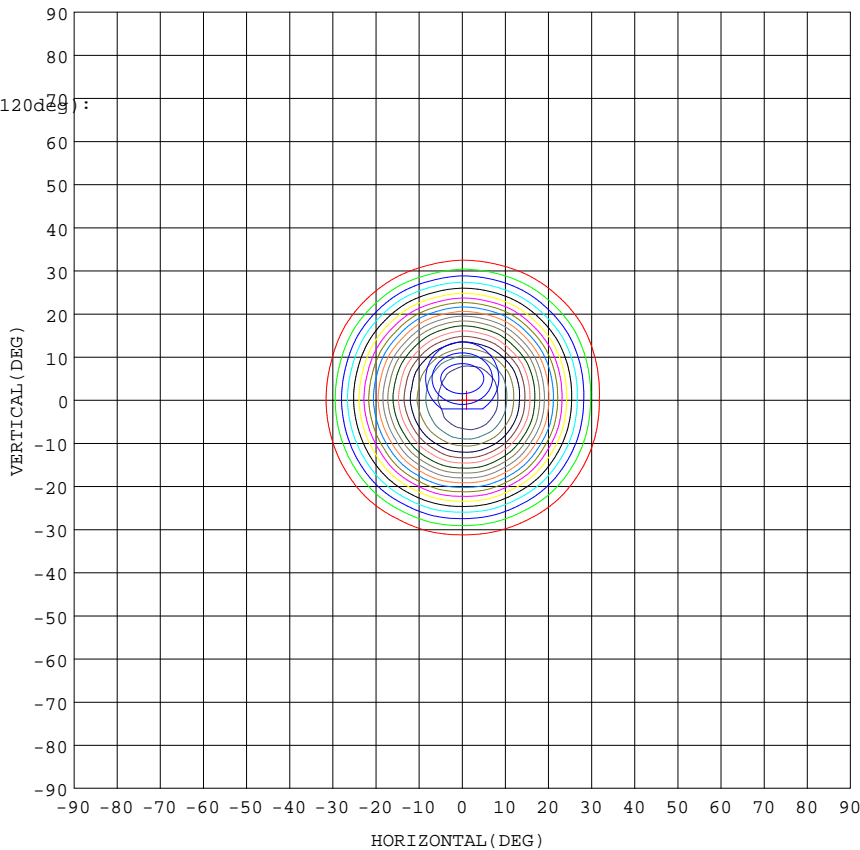
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Conical surface Flux(90deg):

173.45 lm
%lum = 99.9%
%lamp = 99.9%

Conical surface Flux(120deg):

173.54 lm
%lum = 100.0%
%lamp = 100.0%



1. AVG=401.6,MIN=385.6
2. AVG=396.3,MIN=362.9
3. AVG=388.3,MIN=330.9

Imax:413.9(H1.0,V0.0)
(At:C=0.0,Gamma=1.0)

UNIT: cd

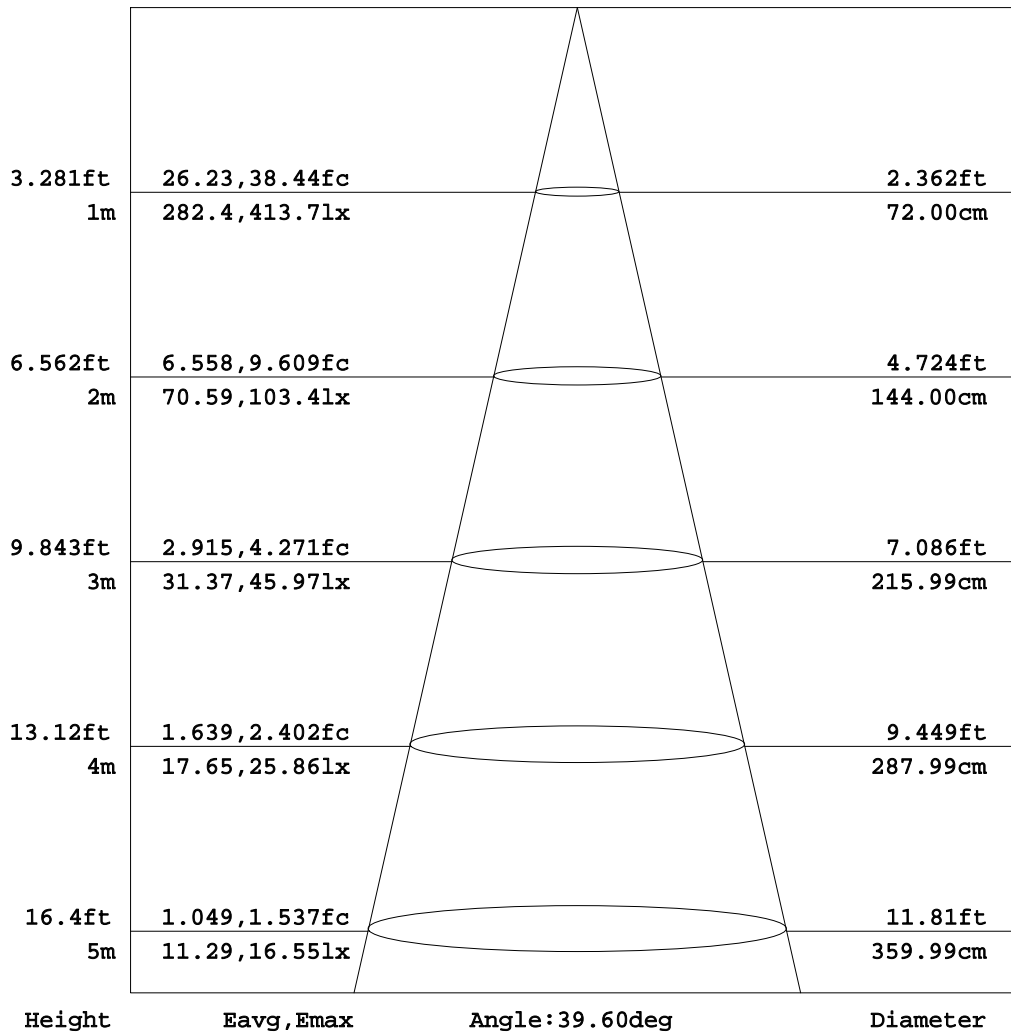
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AAI Figure

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Flux out:117.5 lm



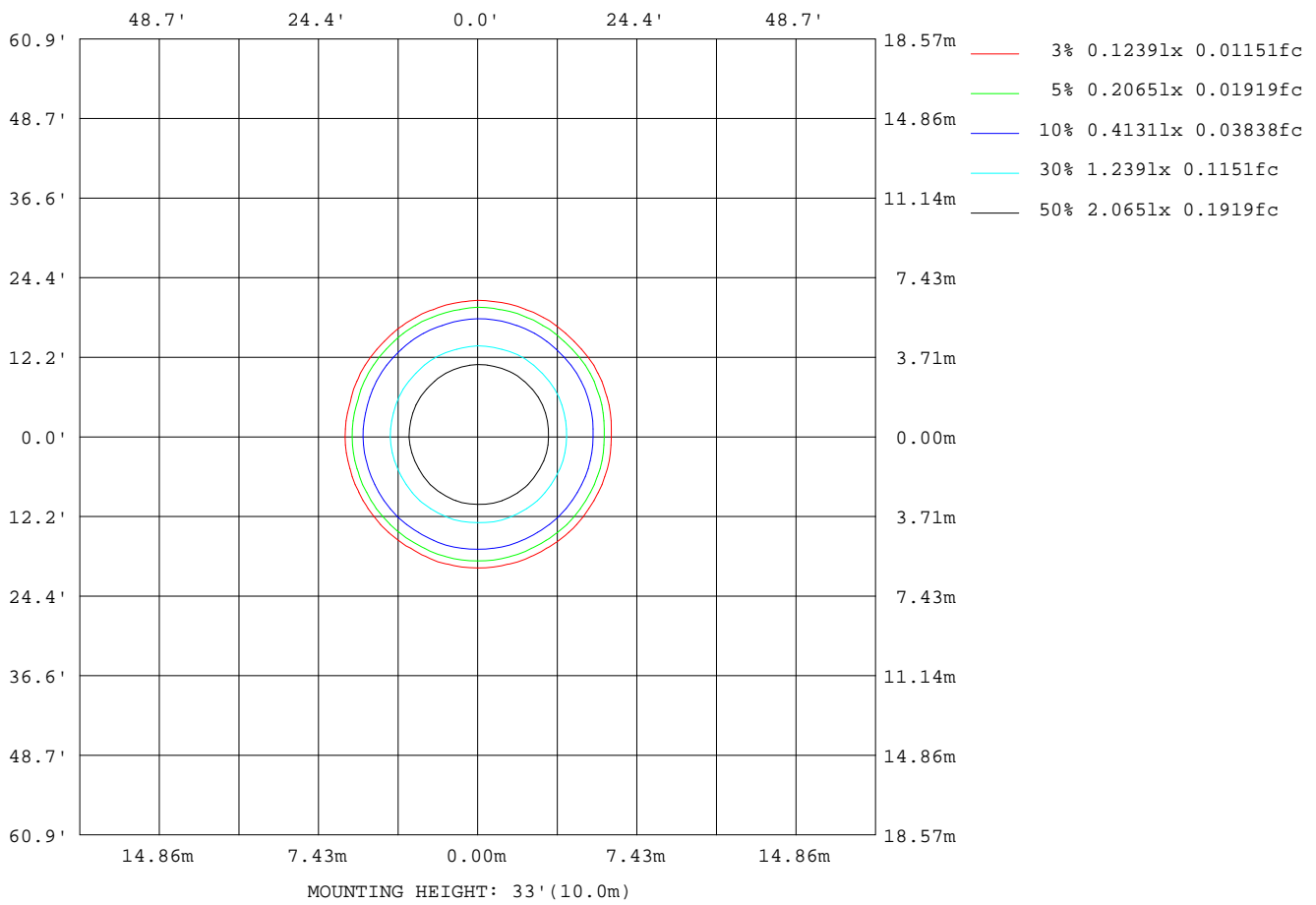
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

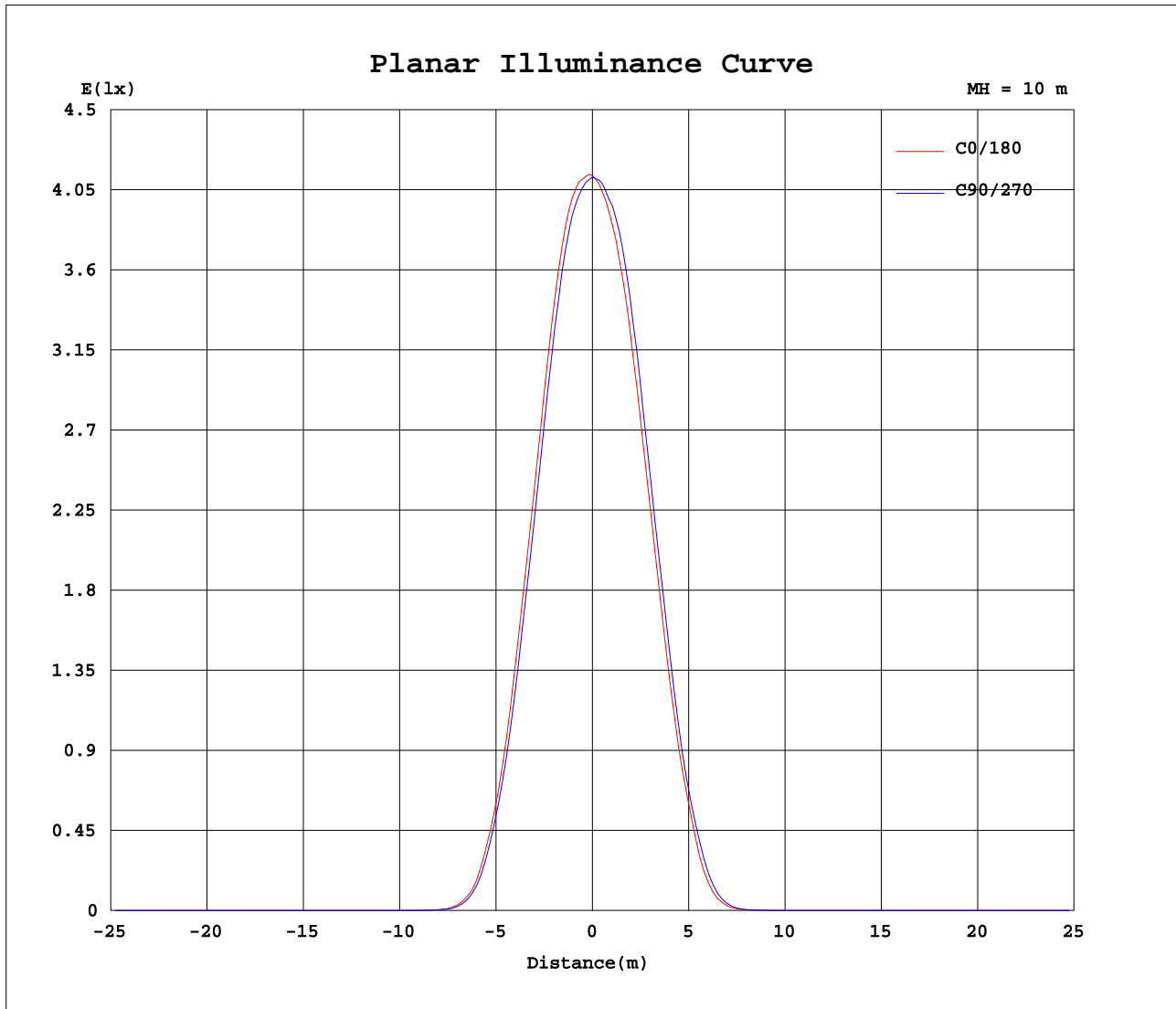
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Planar Illuminance Curve



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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	413.1	412.9	412.8	412.4	412.4	412.4	412.2	412.3	412.1	412.2
3.0	412.6	412.6	411.5	411.1	410.4	409.6	407.5	406.4	405.0	404.0
6.0	406.9	406.5	405.7	404.5	402.9	399.5	396.9	395.1	393.0	392.4
9.0	386.4	387.0	384.7	382.3	377.7	375.7	371.8	370.7	367.1	367.3
12.0	350.7	350.3	346.4	343.5	337.7	335.3	331.5	330.3	327.5	327.9
15.0	301.6	300.8	296.3	292.9	287.7	286.2	281.9	281.6	278.6	279.5
18.0	247.4	245.9	239.5	239.0	233.6	232.7	227.6	229.3	226.4	228.4
21.0	188.7	187.2	180.4	180.4	176.0	174.8	169.9	172.1	169.9	172.3
24.0	127.7	126.9	121.9	120.9	116.6	116.7	113.9	115.2	114.5	117.2
27.0	77.75	76.88	73.58	72.45	69.34	69.49	68.38	69.82	68.49	71.71
30.0	38.48	37.61	35.32	34.36	31.36	32.00	31.10	31.72	30.46	31.70
33.0	13.41	13.12	12.16	11.85	10.82	10.95	10.46	10.68	10.40	10.60
36.0	3.610	3.445	3.082	3.083	2.832	2.770	2.540	2.698	2.558	2.753
39.0	0.9322	0.9423	0.8904	0.8680	0.7394	0.7610	0.7409	0.7850	0.7977	0.8507
42.0	0.3259	0.2969	0.2901	0.2379	0.2217	0.2095	0.2390	0.2423	0.2783	0.2663
45.0	0.1883	0.1638	0.1687	0.1288	0.1227	0.1048	0.1402	0.1376	0.1752	0.1616
48.0	0.1336	0.1026	0.1204	0.0808	0.0789	0.0634	0.0942	0.0873	0.1204	0.1048
51.0	0.0942	0.0699	0.0854	0.0546	0.0613	0.0415	0.0657	0.0524	0.0832	0.0655
54.0	0.0723	0.0437	0.0613	0.0350	0.0460	0.0284	0.0503	0.0328	0.0613	0.0415
57.0	0.0569	0.0306	0.0438	0.0284	0.0350	0.0218	0.0394	0.0284	0.0438	0.0284
60.0	0.0416	0.0175	0.0350	0.0153	0.0306	0.0087	0.0285	0.0109	0.0350	0.0131
63.0	0.0350	0.0087	0.0285	0.0131	0.0022	0.0241	0.0044	0.0241	0.0241	0.0044
66.0	0.0284	0.0022	0.0262	0.0022	0.0197	0.0022	0.0197	0.0022	0.0218	0.0022
69.0	0.0263	0.0022	0.0175	0.0022	0.0175	0.0022	0.0175	0.0022	0.0175	0.0022
72.0	0.0241	0.0022	0.0153	0.0022	0.0131	0.0022	0.0131	0.0022	0.0131	0.0022
75.0	0.0153	0.0022	0.0131	0.0022	0.0131	0.0022	0.0110	0.0022	0.0087	0.0022
78.0	0.0109	0.0022	0.0109	0.0022	0.0109	0.0022	0.0109	0.0022	0.0066	0.0022
81.0	0.0087	0.0022	0.0087	0.0022	0.0066	0.0022	0.0066	0.0022	0.0066	0.0022
84.0	0.0087	0.0022	0.0066	0.0022	0.0066	0.0022	0.0022	0.0022	0.0044	0.0022
87.0	0.0044	0.0022	0.0044	0.0022	0.0044	0.0022	0.0022	0.0022	0.0044	0.0022
90.0	0.0044	0.0022	0.0022	0.0044	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	412.2	412.1	412.9	412.9	412.8	412.4	412.4	412.4	412.2	412.3
3.0	404.3	403.2	405.1	404.7	406.3	407.4	408.3	408.5	410.0	410.2
6.0	389.6	389.3	391.1	391.8	392.2	395.4	397.3	399.6	402.3	403.6
9.0	365.7	366.4	368.0	368.6	372.1	374.7	379.1	381.0	385.2	386.8
12.0	327.8	328.5	331.6	332.0	337.9	340.7	344.1	347.3	352.1	353.6
15.0	278.5	281.7	286.4	286.5	292.5	294.0	299.3	302.0	307.2	307.6
18.0	225.9	229.7	235.0	235.4	240.5	241.3	247.7	250.6	255.1	255.3
21.0	170.2	173.6	178.5	178.8	184.1	185.1	192.6	194.3	198.9	199.0
24.0	116.7	119.2	122.7	123.5	128.2	129.0	134.5	134.4	139.1	138.3
27.0	71.65	74.11	77.20	76.85	80.24	81.35	84.72	84.73	87.85	87.19
30.0	31.97	33.43	34.85	34.78	37.91	38.40	41.56	41.78	45.96	45.59
33.0	10.50	11.06	11.59	11.66	12.76	13.02	14.29	14.95	16.66	16.26
36.0	2.662	2.779	2.979	2.901	3.259	3.355	3.881	3.855	4.355	4.234
39.0	0.8810	0.8944	0.9372	0.9065	0.9852	0.9818	1.050	0.9600	1.040	1.046
42.0	0.2849	0.2685	0.2771	0.2701	0.2531	0.2727	0.2640	0.2820	0.3051	0.3151
45.0	0.1817	0.1638	0.1593	0.1620	0.1397	0.1598	0.1376	0.1598	0.1331	0.1686
48.0	0.1270	0.1092	0.1048	0.1160	0.0917	0.1116	0.0895	0.1094	0.0808	0.1182
51.0	0.0941	0.0721	0.0699	0.0810	0.0611	0.0788	0.0589	0.0788	0.0523	0.0832
54.0	0.0700	0.0481	0.0480	0.0634	0.0393	0.0613	0.0371	0.0569	0.0328	0.0635
57.0	0.0503	0.0328	0.0306	0.0481	0.0284	0.0459	0.0284	0.0437	0.0240	0.0438
60.0	0.0350	0.0218	0.0218	0.0328	0.0174	0.0350	0.0175	0.0306	0.0109	0.0350
63.0	0.0262	0.0109	0.0066	0.0262	0	0.0241	0.0022	0.0262	0.0043	0.0263
66.0	0.0175	0	0	0.0175	0	0.0175	0	0.0197	0	0.0219
69.0	0.0153	0	0	0.0131	0	0.0131	0	0.0153	0	0.0175
72.0	0.0109	0	0	0.0088	0	0.0109	0	0.0153	0	0.0110
75.0	0.0087	0	0	0.0087	0	0.0088	0	0.0088	0	0.0088
78.0	0.0066	0	0	0.0066	0	0.0066	0	0.0066	0	0.0066
81.0	0.0066	0	0	0.0044	0	0.0066	0	0.0044	0	0.0066
84.0	0.0044	0	0	0.0044	0	0.0044	0	0.0044	0	0.0044
87.0	0.0044	0	0	0	0	0.0022	0	0.0022	0	0.0022
90.0	0.0044	0	0	0	0	0	0	0	0	0
G/C	300.0	315.0	330.0	345.0						
0.0	412.1	412.2	412.2	412.1						
3.0	411.6	411.7	412.4	411.9						
6.0	405.3	406.0	407.7	406.4						
9.0	391.1	390.7	391.2	388.9						
12.0	356.3	357.4	358.3	354.2						
15.0	311.2	309.1	310.7	305.5						
18.0	258.0	255.8	256.6	250.9						
21.0	202.2	198.0	197.7	192.9						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-06-14

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	141.4	137.4	137.4	132.2
27.0	87.60	85.67	85.84	82.11
30.0	46.25	44.57	45.16	42.07
33.0	16.80	15.93	16.42	14.94
36.0	4.763	4.481	4.512	4.003
39.0	1.116	1.120	1.165	1.045
42.0	0.3660	0.3499	0.3793	0.3411
45.0	0.1572	0.1948	0.1812	0.1970
48.0	0.1004	0.1357	0.1179	0.1379
51.0	0.0655	0.0985	0.0785	0.1007
54.0	0.0415	0.0700	0.0502	0.0700
57.0	0.0327	0.0525	0.0371	0.0547
60.0	0.0196	0.0372	0.0240	0.0394
63.0	0.0065	0.0306	0.0152	0.0328
66.0	0	0.0197	0	0.0241
69.0	0	0.0153	0	0.0175
72.0	0	0.0110	0	0.0131
75.0	0	0.0087	0	0.0109
78.0	0	0.0087	0	0.0087
81.0	0	0.0087	0	0.0066
84.0	0	0.0044	0	0.0066
87.0	0	0.0022	0	0.0044
90.0	0	0	0	0

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-14

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: