

LED Downlight FUSION Series FF1-2W-830-24D Black



Light Output Ratio:	100.0%	
Luminaire Power:	3.197 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

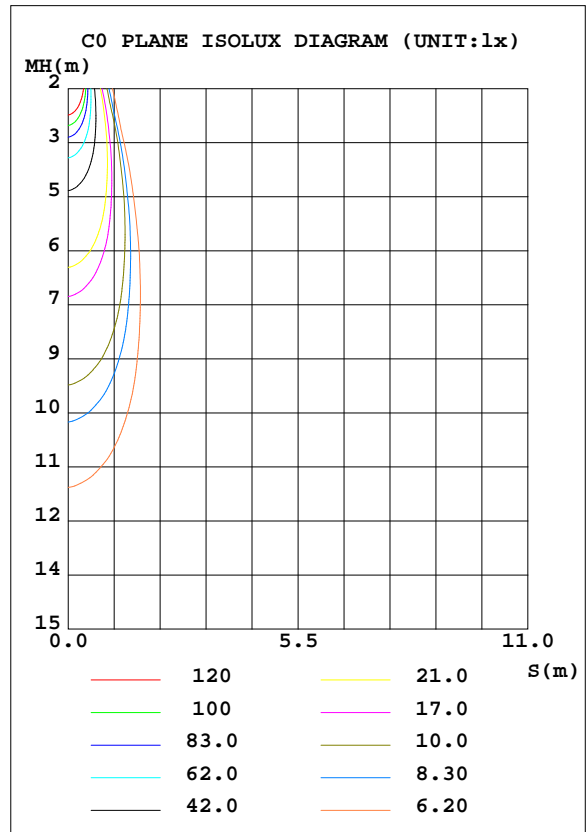
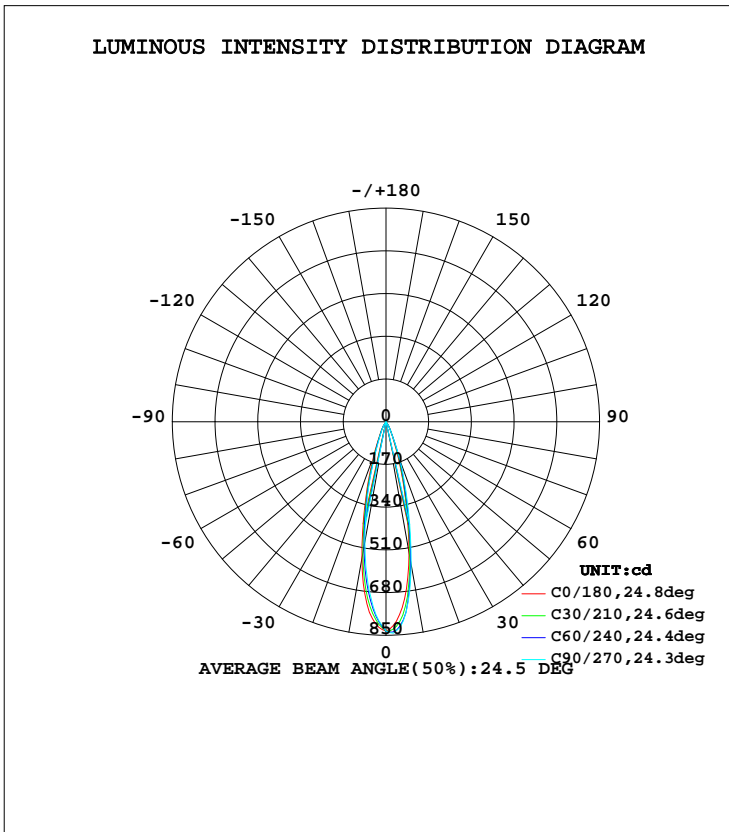
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2016-06-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.6V I:0.0203A P:3.197W PF:0.7155 Lamp Flux:180.546x1 lm		
NAME: FF1-2W-830-24D Black	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L45mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CREE-3000K	Imax(cd)	842.2	S/MH(C0/180)	0.43
NOMINAL POWER(W)	3.0	LOR(%)	100.0	S/MH(C90/270)	0.39
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	180.55	η UP, DN(C0-180)	0.0, 53.0
NOMINAL FLUX(lm)	180.546	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 47.0
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



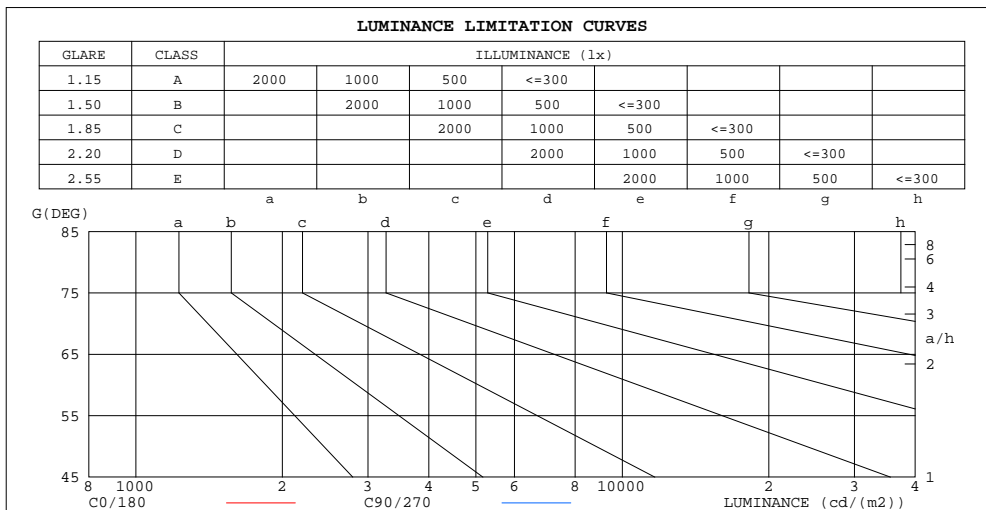
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	528.5	564.6	577.8	577.0	552.5	511.8	485.0	497.0	0- 10	64.68	64.68	35.8,35.8
20	125.8	149.9	164.7	166.5	141.2	118.1	106.0	115.3	10- 20	81.97	146.6	81.2,81.2
30	27.11	29.23	27.68	29.10	29.19	26.71	25.20	25.82	20- 30	28.10	174.7	96.8,96.8
40	0.9291	1.345	1.246	1.176	1.203	1.074	0.8898	0.8561	30- 40	5.608	180.4	99.9,99.9
50	0.0362	0.0277	0.0384	0.0255	0.0277	0.0384	0.0128	0.0320	40- 50	0.1275	180.5	100,100
60	0.0235	0.0128	0.0277	0.0128	0.0170	0.0213	0.0128	0.0192	50- 60	0.0191	180.5	100,100
70	0.0213	0.0128	0.0170	0.0128	0.0170	0.0170	0.0128	0.0149	60- 70	0.0160	180.5	100,100
80	0.0170	0.0128	0.0149	0.0128	0.0170	0.0170	0.0128	0.0128	70- 80	0.0150	180.5	100,100
90	0.0149	0.0149	0.0128	0.0128	0.0170	0.0128	0.0128	0.0107	80- 90	0.0147	180.5	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	97	84
80	48	42
75	37	28
70	31	25
65	25	22
60	23	27
55	24	26
50	28	29
45	40	43

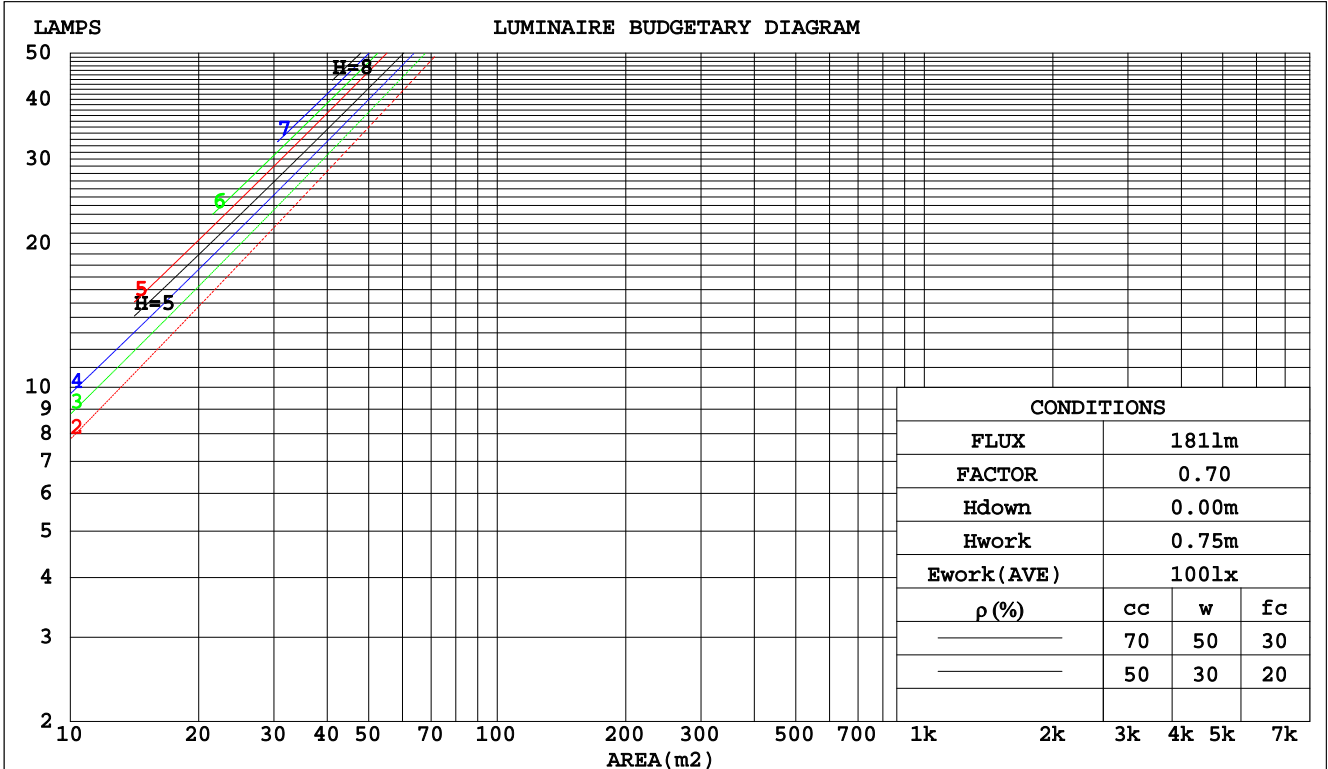
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:53.0%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: FF1-2W-830-24D Black	TYPE:Downlight	SERIAL No.:
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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	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.03	1.06	1.04	1.01	1.03	1.01	.99	1.00	.99	.97	.98	.96	.95	.94
3.0	1.03	.00	.97	1.02	.99	.96	.00	.97	.95	.97	.95	.93	.95	.94	.92	.91
4.0	.00	.96	.93	.98	.95	.92	.97	.94	.91	.95	.92	.90	.93	.91	.89	.88
5.0	.96	.92	.89	.95	.91	.89	.94	.90	.88	.92	.89	.87	.91	.88	.87	.85
6.0	.93	.89	.86	.92	.88	.86	.91	.88	.85	.90	.87	.85	.88	.86	.84	.83
7.0	.90	.86	.83	.89	.86	.83	.88	.85	.82	.87	.84	.82	.86	.84	.82	.81
8.0	.87	.83	.80	.87	.83	.80	.86	.82	.80	.85	.82	.80	.84	.81	.79	.78
9.0	.85	.81	.78	.84	.81	.78	.84	.80	.78	.83	.80	.78	.82	.79	.77	.76
10.0	.82	.79	.76	.82	.78	.76	.81	.78	.76	.81	.78	.76	.80	.77	.75	.74



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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	.134	.076	.024	.128	.073	.023	.115	.066	.021	.104	.060	.019	.093	.054	.017	
2.0	.124	.068	.021	.119	.065	.020	.108	.060	.019	.099	.056	.017	.090	.051	.016	
3.0	.116	.061	.018	.111	.059	.018	.103	.056	.017	.095	.052	.016	.087	.048	.015	
4.0	.108	.056	.017	.104	.055	.016	.097	.052	.015	.091	.049	.015	.084	.046	.014	
5.0	.102	.052	.015	.099	.051	.015	.093	.048	.014	.087	.046	.014	.082	.044	.013	
6.0	.097	.048	.014	.094	.047	.014	.089	.045	.013	.084	.043	.013	.079	.042	.012	
7.0	.092	.045	.013	.089	.045	.013	.085	.043	.012	.081	.041	.012	.077	.040	.012	
8.0	.088	.043	.012	.085	.042	.012	.081	.041	.012	.078	.039	.011	.074	.038	.011	
9.0	.084	.040	.011	.082	.040	.011	.078	.039	.011	.075	.038	.011	.072	.037	.011	
10.0	.080	.038	.011	.079	.038	.011	.076	.037	.010	.073	.036	.010	.070	.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	.116	.098	.083	.079	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.122	.098	.079	.105	.085	.069	.072	.059	.049	.042	.035	.029	.013	.011	.009	
5.0	.112	.085	.066	.096	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.103	.075	.056	.088	.065	.049	.061	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.095	.067	.048	.082	.058	.042	.056	.041	.030	.033	.024	.018	.011	.008	.006	
8.0	.088	.060	.041	.076	.052	.036	.053	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.083	.055	.036	.071	.048	.031	.049	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.078	.050	.031	.067	.043	.027	.047	.031	.019	.027	.018	.012	.009	.006	.004	

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:53.0%
 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	3.6	4.2	3.8	4.4	4.5	4.1	4.7	4.3	4.9	5.0
3H	3.4	4.0	3.7	4.2	4.4	4.0	4.6	4.2	4.7	4.9
4H	3.4	3.9	3.6	4.1	4.3	3.9	4.5	4.1	4.7	4.9
6H	3.3	3.8	3.6	4.0	4.3	3.8	4.3	4.1	4.6	4.8
8H	3.2	3.8	3.5	4.0	4.2	3.8	4.3	4.1	4.5	4.8
12H	3.2	3.7	3.5	3.9	4.2	3.7	4.2	4.0	4.5	4.7
4H 2H	3.4	3.9	3.6	4.1	4.3	3.9	4.5	4.1	4.7	4.9
3H	3.2	3.7	3.5	3.9	4.2	3.7	4.2	4.0	4.5	4.7
4H	3.1	3.5	3.4	3.8	4.1	3.6	4.1	4.0	4.4	4.7
6H	3.0	3.4	3.4	3.7	4.1	3.5	3.9	3.9	4.3	4.6
8H	2.9	3.3	3.3	3.7	4.0	3.5	3.8	3.9	4.2	4.6
12H	2.9	3.2	3.3	3.6	4.0	3.4	3.8	3.8	4.1	4.5
8H 4H	2.9	3.3	3.3	3.7	4.0	3.5	3.8	3.8	4.2	4.5
6H	2.8	3.1	3.2	3.5	3.9	3.4	3.7	3.8	4.1	4.5
8H	2.8	3.0	3.2	3.5	3.9	3.3	3.6	3.7	4.0	4.4
12H	2.7	3.0	3.2	3.4	3.9	3.2	3.5	3.7	3.9	4.4
12H 4H	2.9	3.2	3.3	3.6	4.0	3.4	3.8	3.8	4.1	4.5
6H	2.8	3.0	3.2	3.5	3.9	3.3	3.6	3.7	4.0	4.4
8H	2.7	2.9	3.2	3.4	3.9	3.2	3.5	3.7	3.9	4.4
Variations with the observer position at spacings:										
S = 1.0H	+ 3.9 / - 8.2					+ 4.0 / -10.5				
1.5H	+ 6.6 / - 8.4					+ 6.7 / -10.7				
2.0H	+ 0.4 / - 0.6					+ 0.6 / - 0.5				

CIE Pub.117 Corrected 180.5 lm Total Lamp Luminous Flux. (8log(F/F0) = -5.9)

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 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:53.0%
 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):

180.47 lm

%lum = 100.0%

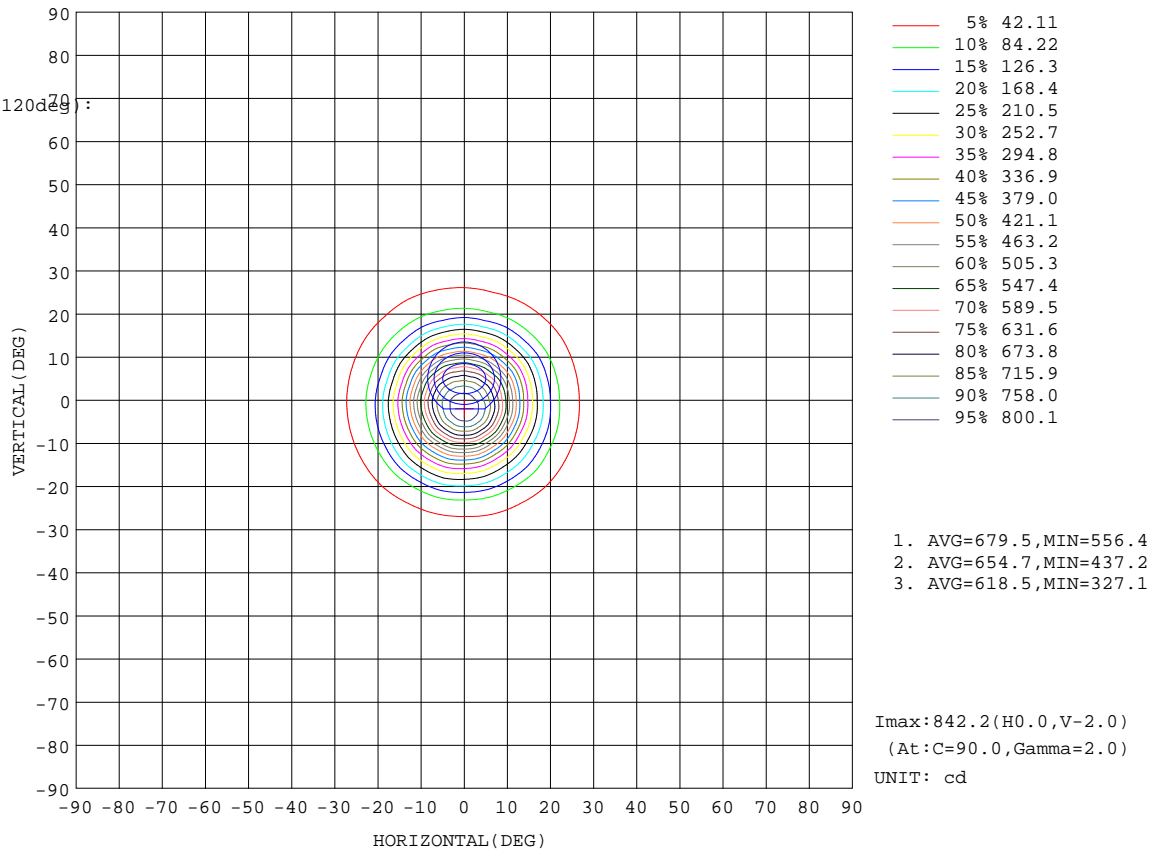
%lamp = 100.0%

Conical surface Flux(120deg):

180.5 lm

%lum = 100.0%

%lamp = 100.0%

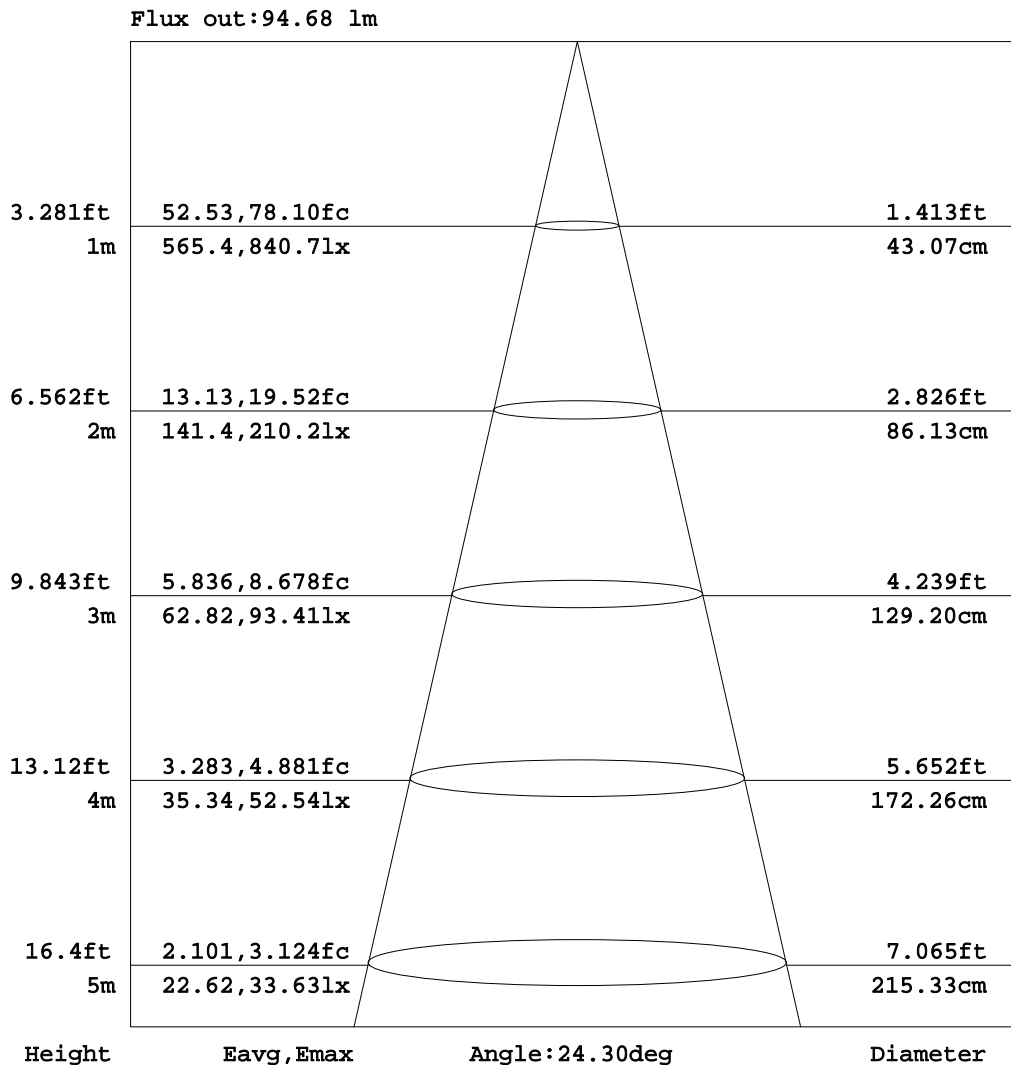


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AAI Figure

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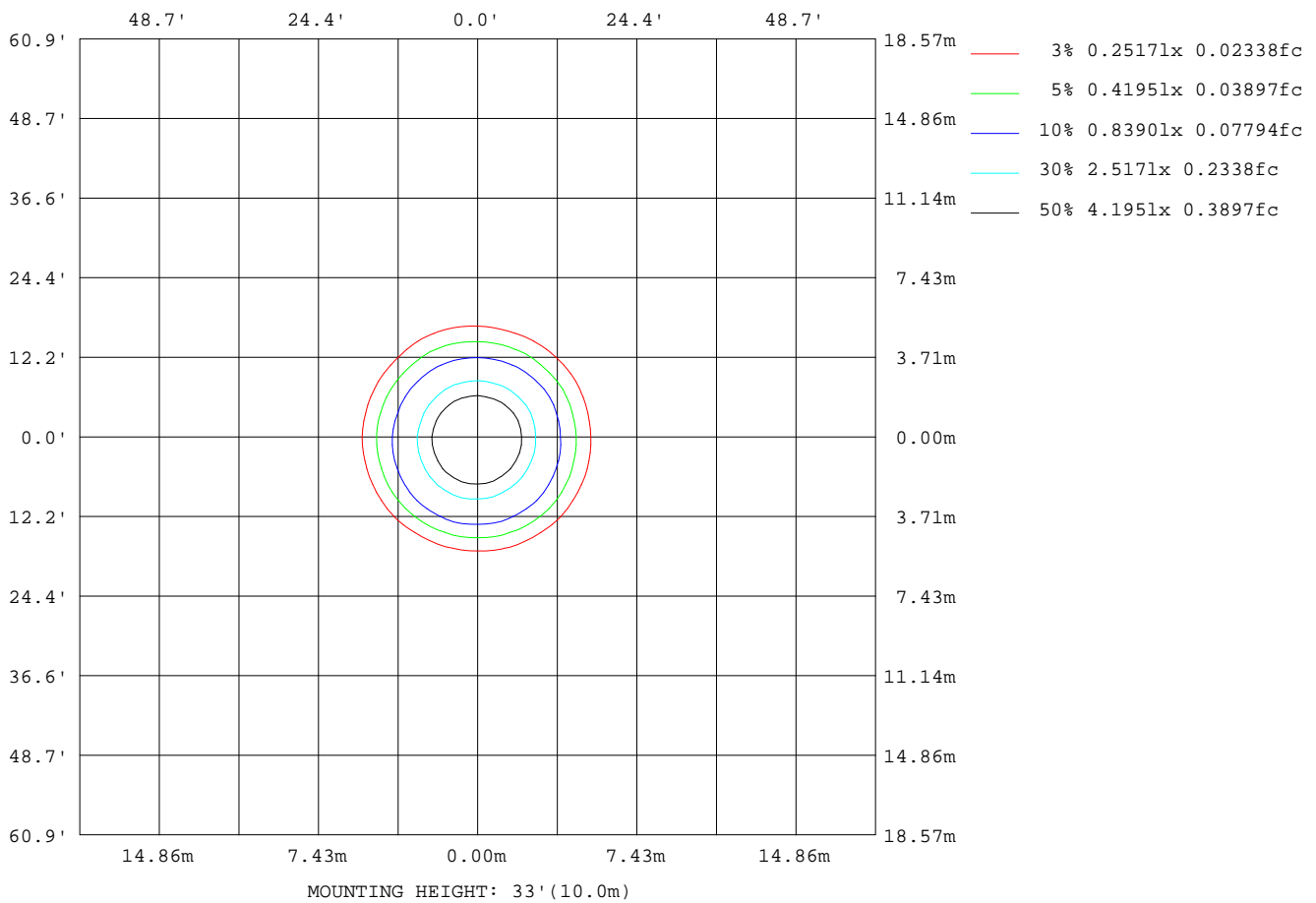
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

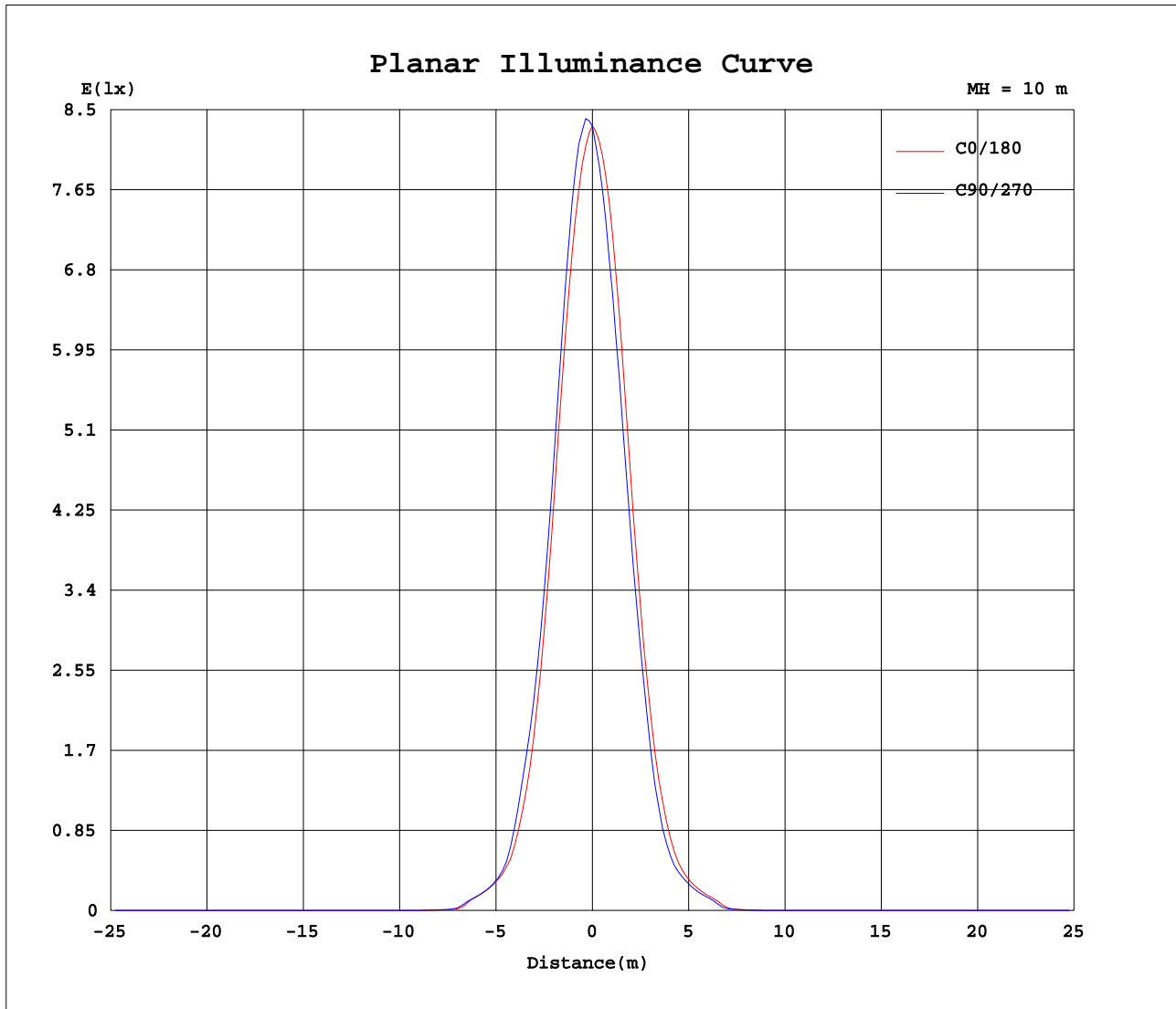
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Planar Illuminance Curve



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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	833.1	832.7	833.8	832.2	833.5	831.6	832.6	830.6	831.6	829.6
3.0	795.0	807.8	814.6	825.0	829.2	831.4	830.7	831.0	825.4	822.0
6.0	708.6	728.1	738.4	755.3	762.0	768.0	764.2	764.5	756.2	752.9
9.0	578.7	596.3	604.3	618.6	619.9	632.8	629.7	636.7	627.0	626.3
12.0	422.4	435.6	437.4	452.8	455.8	470.7	470.5	479.5	472.4	475.2
15.0	283.1	293.4	295.0	308.9	311.6	326.0	328.5	339.0	334.1	335.2
18.0	175.7	184.0	188.2	200.6	206.4	217.5	220.5	229.0	225.7	225.0
21.0	104.6	112.4	118.9	127.7	129.7	136.5	136.1	143.3	138.9	139.5
24.0	61.17	62.94	67.61	70.22	69.17	70.21	68.57	71.06	70.19	71.97
27.0	40.35	41.62	42.26	43.48	42.50	43.12	41.82	42.51	42.31	43.95
30.0	27.11	28.10	28.46	29.23	28.22	28.45	27.68	28.03	27.85	29.10
33.0	13.52	15.18	15.74	16.98	16.18	16.72	16.21	16.69	15.86	16.91
36.0	2.375	2.619	2.811	3.209	3.171	3.251	3.073	3.095	3.006	3.144
39.0	1.129	1.276	1.474	1.690	1.770	1.675	1.592	1.548	1.498	1.516
42.0	0.1181	0.1147	0.1297	0.1803	0.1649	0.2627	0.2110	0.2606	0.1821	0.2332
45.0	0.0577	0.0383	0.0619	0.0404	0.0683	0.0425	0.0619	0.0383	0.0662	0.0489
48.0	0.0405	0.0298	0.0490	0.0256	0.0512	0.0277	0.0469	0.0255	0.0469	0.0277
51.0	0.0341	0.0170	0.0363	0.0234	0.0426	0.0234	0.0383	0.0170	0.0384	0.0213
54.0	0.0299	0.0149	0.0320	0.0128	0.0362	0.0128	0.0320	0.0107	0.0299	0.0128
57.0	0.0277	0.0149	0.0277	0.0128	0.0298	0.0128	0.0256	0.0107	0.0256	0.0128
60.0	0.0235	0.0149	0.0234	0.0128	0.0256	0.0128	0.0277	0.0107	0.0235	0.0128
63.0	0.0213	0.0149	0.0213	0.0128	0.0213	0.0128	0.0213	0.0107	0.0213	0.0128
66.0	0.0213	0.0149	0.0213	0.0128	0.0234	0.0128	0.0192	0.0107	0.0192	0.0128
69.0	0.0213	0.0149	0.0192	0.0128	0.0171	0.0128	0.0171	0.0107	0.0170	0.0128
72.0	0.0213	0.0149	0.0170	0.0128	0.0170	0.0128	0.0170	0.0107	0.0149	0.0128
75.0	0.0192	0.0149	0.0170	0.0128	0.0149	0.0128	0.0149	0.0107	0.0149	0.0128
78.0	0.0171	0.0149	0.0170	0.0128	0.0149	0.0128	0.0149	0.0107	0.0149	0.0128
81.0	0.0170	0.0149	0.0149	0.0128	0.0149	0.0128	0.0149	0.0107	0.0128	0.0128
84.0	0.0170	0.0149	0.0149	0.0149	0.0149	0.0128	0.0149	0.0107	0.0128	0.0128
87.0	0.0149	0.0149	0.0149	0.0149	0.0149	0.0128	0.0128	0.0107	0.0128	0.0128
90.0	0.0149	0.0149	0.0149	0.0149	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	830.1	829.1	833.1	832.7	833.8	832.2	833.5	831.6	832.6	830.6
3.0	813.2	807.6	804.3	794.4	788.0	777.6	774.4	767.3	768.0	764.4
6.0	740.8	733.3	729.0	713.5	706.2	687.1	677.1	663.1	665.5	658.8
9.0	610.4	607.7	603.0	585.4	579.9	559.6	552.6	535.2	532.0	528.5
12.0	460.3	454.0	450.0	432.4	427.2	411.7	407.6	391.2	391.2	385.8
15.0	321.7	315.3	309.9	293.9	290.4	279.8	279.6	266.5	267.2	261.5
18.0	212.0	202.8	196.0	180.7	176.9	166.2	164.6	155.1	155.6	153.2
21.0	129.8	124.3	117.4	108.3	104.7	98.90	96.12	90.05	88.78	86.64
24.0	69.57	68.27	67.65	65.29	61.70	58.70	58.56	55.50	54.47	53.09
27.0	43.62	43.64	43.49	42.07	41.10	39.46	39.87	38.58	37.37	36.17
30.0	29.22	29.01	29.19	28.66	27.90	26.71	27.63	26.29	25.20	24.19
33.0	16.88	16.60	17.20	16.18	16.38	14.41	14.92	13.24	12.17	11.42
36.0	3.046	3.145	3.242	3.052	3.169	3.046	2.939	2.682	2.712	2.614
39.0	1.521	1.547	1.585	1.495	1.605	1.527	1.478	1.291	1.316	1.218
42.0	0.1814	0.2079	0.2603	0.1520	0.1631	0.1133	0.0849	0.0932	0.0721	0.0793
45.0	0.0726	0.0553	0.0574	0.0683	0.0446	0.0597	0.0298	0.0512	0.0276	0.0448
48.0	0.0512	0.0298	0.0340	0.0511	0.0298	0.0427	0.0191	0.0362	0.0128	0.0362
51.0	0.0384	0.0213	0.0277	0.0384	0.0191	0.0341	0.0128	0.0298	0.0128	0.0277
54.0	0.0320	0.0128	0.0170	0.0320	0.0128	0.0298	0.0128	0.0256	0.0128	0.0235
57.0	0.0298	0.0128	0.0170	0.0277	0.0128	0.0234	0.0128	0.0213	0.0128	0.0234
60.0	0.0256	0.0128	0.0170	0.0256	0.0128	0.0213	0.0128	0.0213	0.0128	0.0192
63.0	0.0213	0.0128	0.0170	0.0213	0.0128	0.0192	0.0128	0.0170	0.0128	0.0192
66.0	0.0192	0.0128	0.0170	0.0213	0.0128	0.0171	0.0128	0.0170	0.0128	0.0170
69.0	0.0192	0.0128	0.0170	0.0192	0.0128	0.0170	0.0128	0.0149	0.0128	0.0149
72.0	0.0170	0.0128	0.0170	0.0170	0.0128	0.0149	0.0128	0.0149	0.0128	0.0128
75.0	0.0170	0.0128	0.0170	0.0170	0.0128	0.0149	0.0128	0.0149	0.0128	0.0128
78.0	0.0149	0.0128	0.0170	0.0170	0.0128	0.0149	0.0128	0.0149	0.0128	0.0128
81.0	0.0149	0.0128	0.0170	0.0170	0.0149	0.0128	0.0128	0.0149	0.0128	0.0128
84.0	0.0128	0.0128	0.0170	0.0170	0.0149	0.0128	0.0128	0.0149	0.0128	0.0128
87.0	0.0128	0.0128	0.0170	0.0149	0.0149	0.0128	0.0128	0.0128	0.0128	0.0128
90.0	0.0128	0.0128	0.0170	0.0149	0.0149	0.0128	0.0128	0.0128	0.0128	0.0128
G/C	300.0	315.0	330.0	345.0						
0.0	831.6	829.6	830.1	829.1						
3.0	770.2	772.2	779.9	784.8						
6.0	669.4	673.2	689.5	697.0						
9.0	539.7	544.6	566.4	572.2						
12.0	397.0	402.9	418.1	420.0						
15.0	272.3	275.3	286.4	284.7						
18.0	162.7	166.1	175.7	174.8						
21.0	92.10	94.94	102.2	102.9						

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2016-06-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks:

Photometric Data Table [cd]

24.0	55.13	55.79	58.41	58.63
27.0	37.54	38.50	39.87	39.63
30.0	25.53	25.82	26.95	26.64
33.0	12.29	12.06	13.10	13.14
36.0	2.699	2.647	2.605	2.400
39.0	1.292	1.275	1.293	1.132
42.0	0.0616	0.0881	0.0764	0.1063
45.0	0.0276	0.0470	0.0277	0.0533
48.0	0.0128	0.0341	0.0149	0.0384
51.0	0.0107	0.0298	0.0107	0.0299
54.0	0.0107	0.0256	0.0107	0.0256
57.0	0.0107	0.0234	0.0107	0.0213
60.0	0.0107	0.0192	0.0107	0.0192
63.0	0.0107	0.0213	0.0107	0.0192
66.0	0.0107	0.0170	0.0107	0.0170
69.0	0.0107	0.0170	0.0107	0.0149
72.0	0.0107	0.0149	0.0107	0.0149
75.0	0.0107	0.0149	0.0107	0.0149
78.0	0.0107	0.0170	0.0107	0.0149
81.0	0.0107	0.0128	0.0107	0.0149
84.0	0.0107	0.0107	0.0107	0.0149
87.0	0.0107	0.0107	0.0107	0.0128
90.0	0.0107	0.0107	0.0107	0.0128

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2016-06-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks: