

LED Downlight FUSION Series FF2-4W-830-24D Specular



Light Output Ratio:	100.0%	
Luminaire Power:	5.772 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

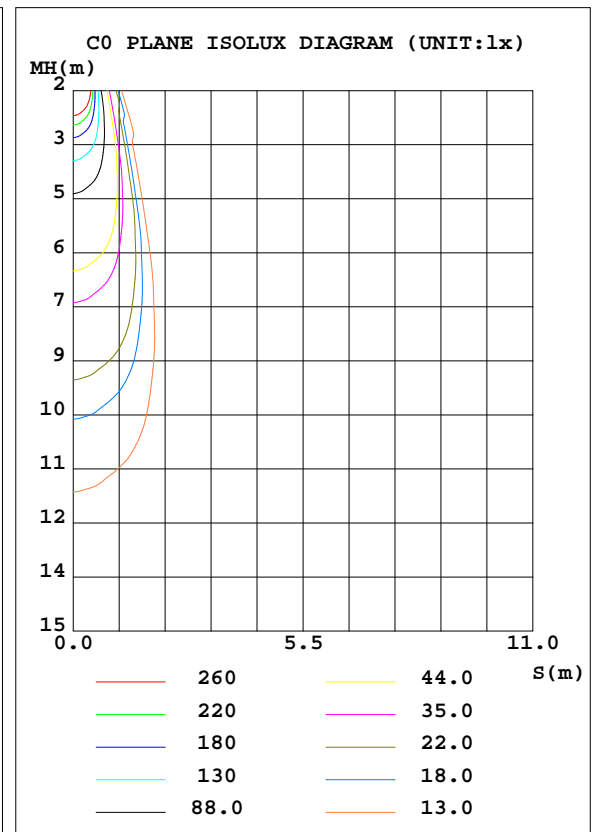
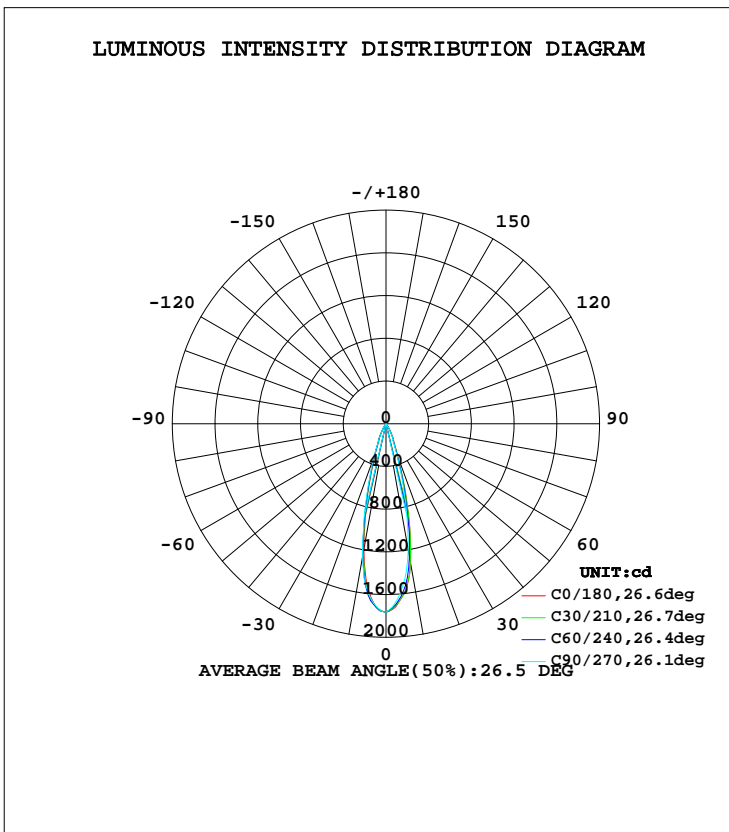
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2016-06-24

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:220.7V I:0.0333A P:5.772W PF:0.7857 Lamp Flux:424.539x1 lm		
NAME: FF2-4W-830-24D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L70mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CREE-3000K	Imax(cd)	1766	S/MH(C0/180)	0.42
NOMINAL POWER(W)	6.0	LOR(%)	100.0	S/MH(C90/270)	0.44
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	424.54	η UP, DN(C0-180)	0.0, 49.6
NOMINAL FLUX(lm)	424.539	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.4
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



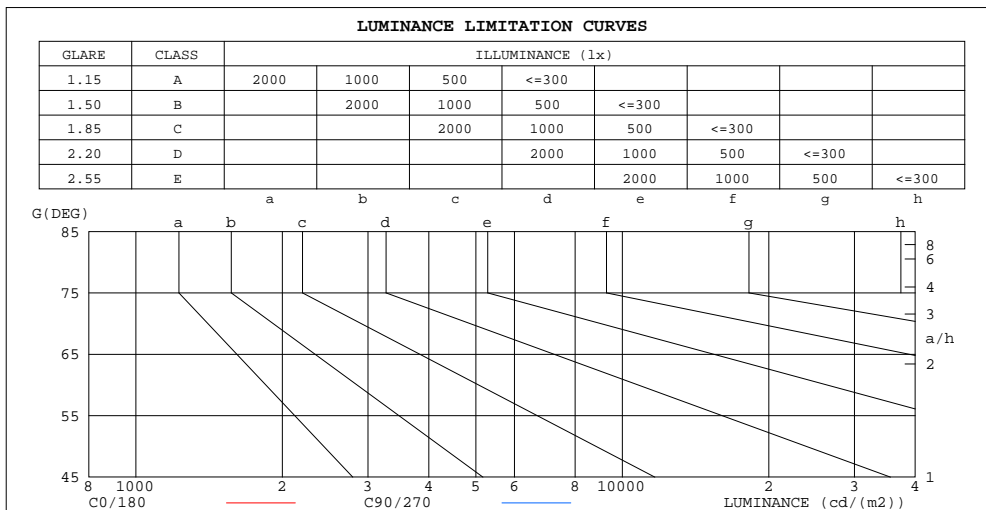
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Remarks:

**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	1326	1309	1201	1183	1199	1229	1265	1288	0- 10	143.7	143.7	33.9,33.9
20	314.5	312.3	280.3	287.3	292.2	306.4	320.4	329.9	10- 20	189.9	333.6	78.6,78.6
30	80.98	77.26	70.07	67.58	65.26	64.35	65.10	72.02	20- 30	72.34	405.9	95.6,95.6
40	6.780	7.947	7.522	6.957	6.665	5.644	5.682	6.451	30- 40	17.05	423.0	99.6,99.6
50	0.4626	0.3917	0.3924	0.3768	0.3597	0.3453	0.3873	0.4754	40- 50	1.052	424.0	99.9,99.9
60	0.2047	0.1767	0.1982	0.1873	0.1809	0.1833	0.1766	0.2132	50- 60	0.2496	424.3	99.9,99.9
70	0.1023	0.0852	0.1129	0.0916	0.0915	0.1066	0.0894	0.1087	60- 70	0.1349	424.4	100,100
80	0.0703	0.0490	0.0724	0.0574	0.0532	0.0703	0.0511	0.0725	70- 80	0.0827	424.5	100,100
90	0.0320	0.0298	0.0320	0.0320	0.0256	0.0256	0.0256	0.0277	80- 90	0.0465	424.5	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	186	186
80	129	132
75	102	112
70	95	105
65	104	110
60	130	126
55	175	151
50	228	194
45	361	308

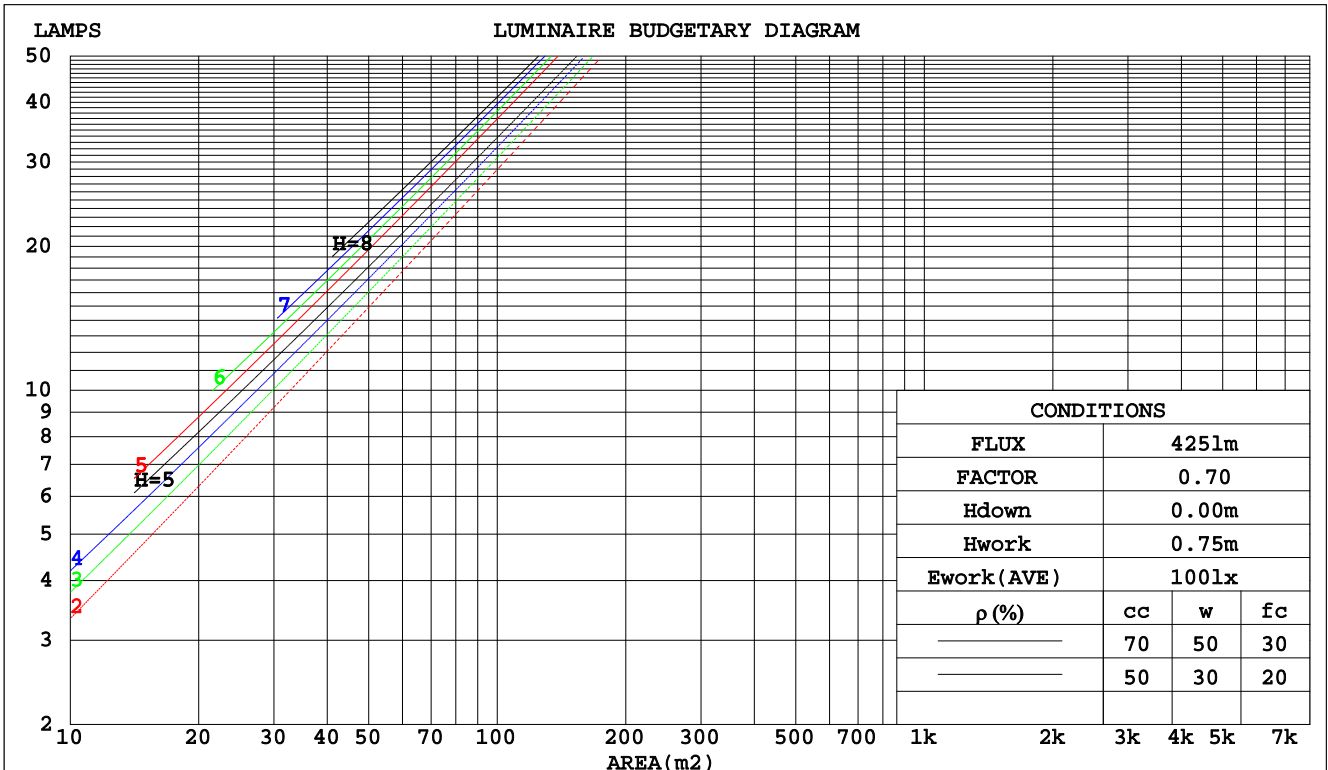
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Operators:Cao Chengpei
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:53.0%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0333A P:5.772W PF:0.7857 Lamp Flux:424.539x1 lm		
NAME: FF2-4W-830-24D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	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																
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	.00
1.0	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.99	.97	1.02	.98	.96	.99	.97	.94	.97	.95	.93	.95	.93	.91	.90
4.0	.99	.95	.92	.98	.94	.91	.96	.93	.90	.94	.92	.89	.92	.90	.88	.87
5.0	.95	.91	.88	.94	.91	.88	.93	.90	.87	.91	.89	.86	.90	.88	.86	.84
6.0	.92	.88	.85	.91	.87	.85	.90	.87	.84	.89	.86	.83	.88	.85	.83	.82
7.0	.89	.85	.82	.88	.84	.82	.87	.84	.81	.86	.83	.81	.85	.83	.80	.79
8.0	.86	.82	.79	.86	.82	.79	.85	.81	.79	.84	.81	.78	.83	.80	.78	.77
9.0	.84	.79	.77	.83	.79	.77	.82	.79	.76	.82	.78	.76	.81	.78	.76	.75
10.0	.81	.77	.74	.81	.77	.74	.80	.77	.74	.79	.76	.74	.79	.76	.74	.73



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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	.137	.078	.025	.130	.074	.024	.118	.068	.022	.107	.061	.020	.096	.056	.018	
2.0	.127	.070	.021	.121	.067	.021	.111	.062	.019	.102	.057	.018	.093	.053	.017	
3.0	.118	.063	.019	.114	.061	.018	.105	.057	.017	.097	.053	.016	.090	.050	.015	
4.0	.111	.058	.017	.107	.056	.017	.100	.053	.016	.093	.050	.015	.087	.047	.014	
5.0	.105	.053	.015	.102	.052	.015	.095	.050	.015	.090	.047	.014	.084	.045	.014	
6.0	.099	.050	.014	.097	.049	.014	.091	.047	.014	.086	.045	.013	.082	.043	.013	
7.0	.094	.047	.013	.092	.046	.013	.087	.044	.013	.083	.043	.012	.079	.041	.012	
8.0	.090	.044	.012	.088	.043	.012	.084	.042	.012	.080	.041	.012	.077	.039	.011	
9.0	.086	.042	.012	.084	.041	.012	.081	.040	.011	.077	.039	.011	.074	.038	.011	
10.0	.083	.040	.011	.081	.039	.011	.078	.038	.011	.075	.037	.011	.072	.036	.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	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.105	.085	.069	.072	.059	.048	.042	.035	.029	.013	.011	.009	
5.0	.112	.086	.066	.096	.074	.057	.066	.052	.040	.039	.030	.024	.012	.010	.008	
6.0	.104	.076	.056	.089	.065	.048	.061	.046	.034	.036	.027	.020	.011	.009	.007	
7.0	.096	.067	.047	.083	.058	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.090	.061	.041	.077	.053	.036	.053	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.084	.055	.036	.072	.048	.031	.050	.034	.022	.029	.020	.013	.009	.007	.004	
10.0	.079	.050	.031	.068	.044	.027	.047	.031	.019	.028	.018	.012	.009	.006	.004	

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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:

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	6.9	7.6	7.1	7.7	7.9	5.9	6.6	6.1	6.7	6.9
3H	6.8	7.4	7.0	7.6	7.8	5.8	6.4	6.0	6.6	6.8
4H	6.7	7.3	7.0	7.5	7.7	5.7	6.3	6.0	6.5	6.7
6H	6.6	7.2	6.9	7.4	7.6	5.6	6.2	5.9	6.4	6.6
8H	6.6	7.1	6.9	7.3	7.6	5.6	6.1	5.9	6.4	6.6
12H	6.5	7.0	6.8	7.3	7.6	5.5	6.1	5.9	6.3	6.6
4H 2H	6.7	7.3	6.9	7.5	7.7	5.7	6.3	6.0	6.5	6.7
3H	6.5	7.0	6.8	7.3	7.6	5.5	6.0	5.8	6.3	6.6
4H	6.4	6.9	6.8	7.2	7.5	5.4	5.9	5.8	6.2	6.5
6H	6.3	6.7	6.7	7.1	7.4	5.4	5.8	5.7	6.1	6.4
8H	6.3	6.7	6.7	7.0	7.4	5.3	5.7	5.7	6.0	6.4
12H	6.2	6.6	6.6	7.0	7.3	5.3	5.6	5.7	6.0	6.4
8H 4H	6.3	6.7	6.7	7.0	7.4	5.3	5.7	5.7	6.0	6.4
6H	6.2	6.5	6.6	6.9	7.3	5.2	5.5	5.6	5.9	6.3
8H	6.1	6.4	6.6	6.8	7.2	5.1	5.4	5.6	5.8	6.3
12H	6.1	6.3	6.5	6.7	7.2	5.1	5.3	5.5	5.8	6.2
12H 4H	6.2	6.6	6.6	6.9	7.3	5.2	5.6	5.6	6.0	6.3
6H	6.1	6.4	6.6	6.8	7.2	5.1	5.4	5.6	5.8	6.3
8H	6.1	6.3	6.5	6.7	7.2	5.1	5.3	5.5	5.8	6.2
Variations with the observer position at spacings:										
S = 1.0H	+ 4.0 / -10.1					+ 4.2 / - 9.9				
1.5H	+ 6.7 / - 9.5					+ 6.9 / - 9.3				
2.0H	+ 2.6 / - 0.9					+ 1.9 / - 0.7				

CIE Pub.117 Corrected 424.5 lm Total Lamp Luminous Flux.(8log(F/F0) = -3.0)

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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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 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	91	86	82	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	89
1.25	105	101	98	104	100	97	103	99	97	93
1.50	108	104	101	107	103	100	105	101	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	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

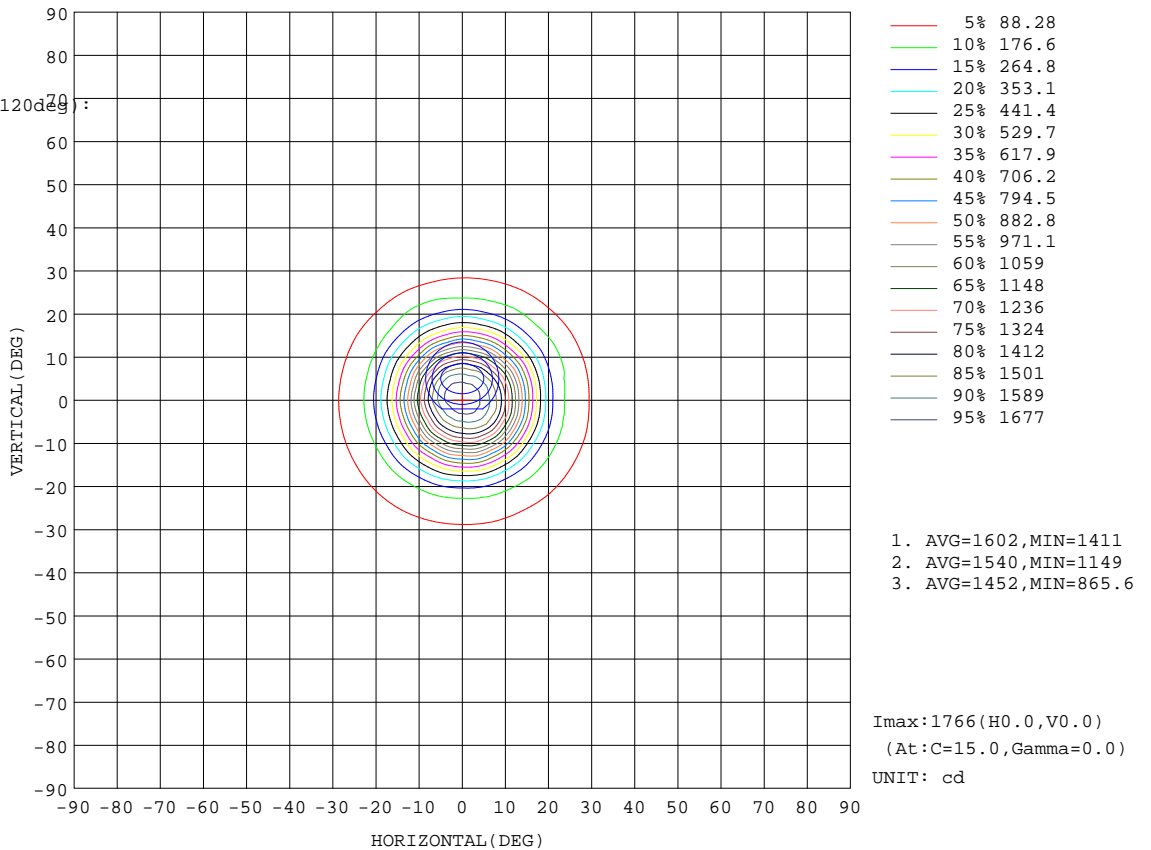
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Conical surface Flux(90deg):

423.83 lm
%lum = 99.8%
%lamp = 99.8%

Conical surface Flux(120deg):

424.28 lm
%lum = 99.9%
%lamp = 99.9%



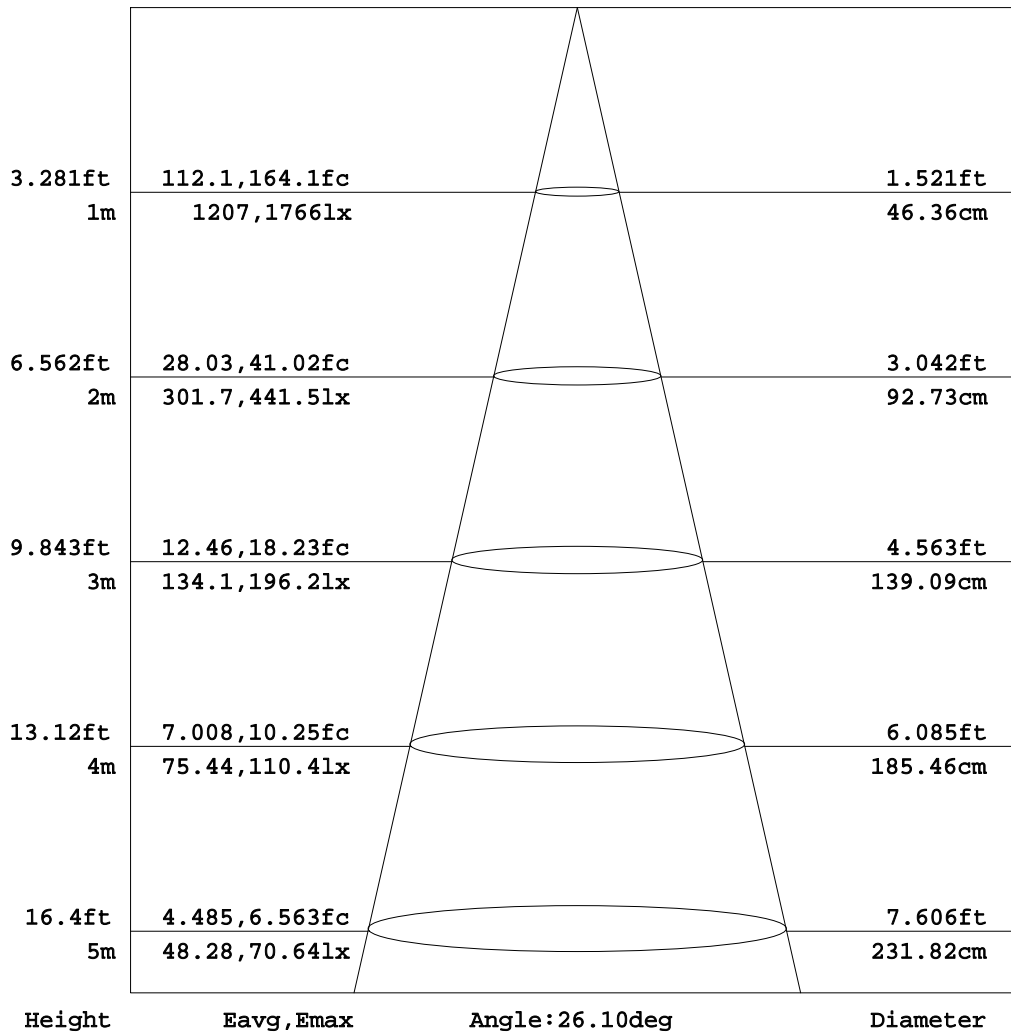
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AAI Figure

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Flux out:235.7 lm



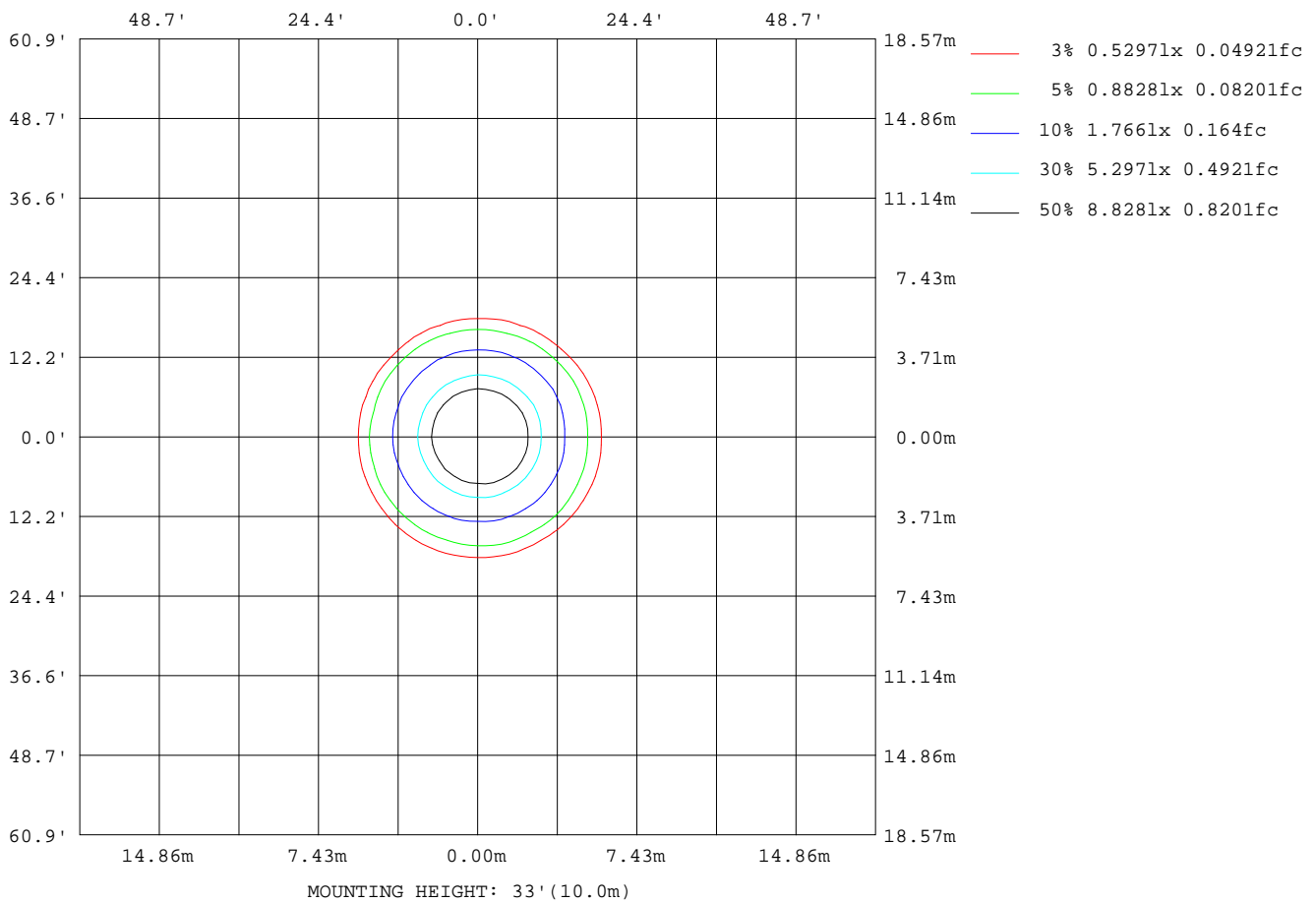
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

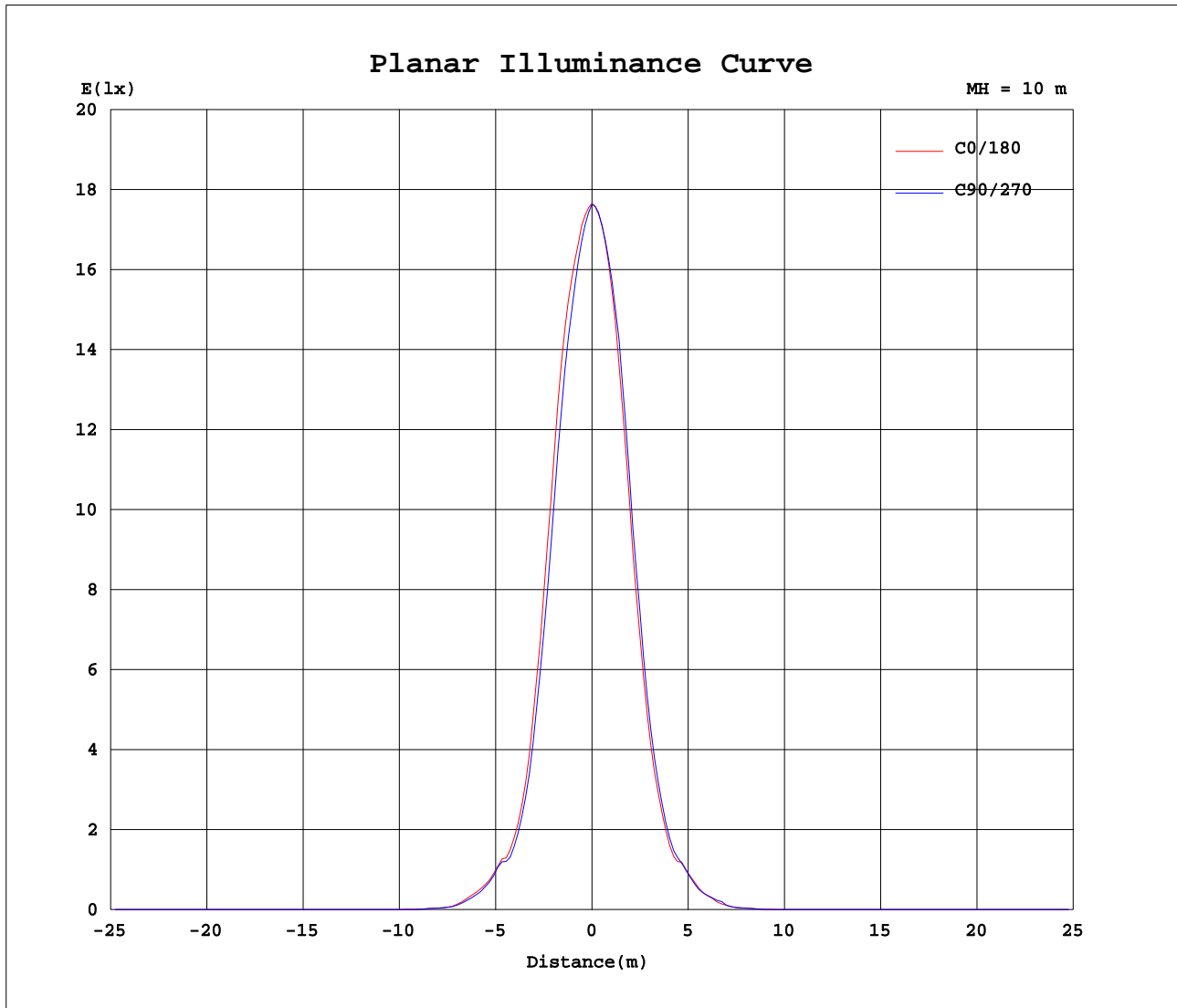
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Planar Illuminance Curve



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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	1766	1766	1764	1765	1764	1764	1763	1764	1763	1763
3.0	1718	1719	1708	1709	1699	1691	1680	1685	1678	1683
6.0	1603	1605	1602	1597	1575	1548	1520	1523	1517	1524
9.0	1419	1423	1425	1400	1363	1339	1295	1294	1275	1280
12.0	1098	1114	1096	1089	1052	1026	976.4	977.2	950.4	954.9
15.0	748.4	759.0	739.2	733.8	698.8	697.0	664.9	657.3	626.9	641.1
18.0	452.3	458.1	444.1	449.1	424.2	417.2	397.0	401.1	392.8	397.7
21.0	264.3	268.6	264.4	265.6	254.4	248.4	235.3	240.0	237.5	242.8
24.0	169.7	174.1	173.5	170.5	160.9	160.9	158.2	157.2	158.5	158.0
27.0	128.9	131.8	130.4	133.4	124.4	129.1	120.5	117.8	118.0	118.7
30.0	80.98	82.68	79.00	77.26	72.49	72.78	70.07	69.88	68.54	67.58
33.0	47.10	48.23	47.22	46.94	42.63	41.76	39.05	37.93	34.65	34.42
36.0	14.58	15.68	16.19	16.62	15.24	15.28	14.54	14.53	13.99	14.36
39.0	8.094	8.289	8.385	8.657	8.453	8.536	8.254	8.107	7.736	7.734
42.0	2.578	3.001	2.723	2.901	2.355	2.377	2.030	2.059	1.803	1.743
45.0	0.8042	0.8245	0.7470	0.7587	0.7061	0.7205	0.6850	0.7269	0.6610	0.6358
48.0	0.5265	0.4748	0.4733	0.4598	0.4733	0.4513	0.4605	0.4449	0.4668	0.4322
51.0	0.4286	0.3832	0.3817	0.3640	0.3859	0.3576	0.3667	0.3491	0.3774	0.3513
54.0	0.3412	0.3023	0.3049	0.2895	0.3092	0.2853	0.2964	0.2789	0.3070	0.2895
57.0	0.2644	0.2299	0.2431	0.2256	0.2473	0.2257	0.2409	0.2235	0.2494	0.2342
60.0	0.2047	0.1767	0.1897	0.1767	0.2004	0.1788	0.1982	0.1767	0.2025	0.1873
63.0	0.1621	0.1341	0.1556	0.1363	0.1621	0.1426	0.1620	0.1448	0.1684	0.1554
66.0	0.1258	0.1064	0.1300	0.1107	0.1343	0.1150	0.1386	0.1213	0.1407	0.1256
69.0	0.1066	0.0851	0.1066	0.0915	0.1172	0.0979	0.1151	0.0958	0.1172	0.0958
72.0	0.0917	0.0703	0.0959	0.0766	0.1001	0.0767	0.0981	0.0809	0.1023	0.0788
75.0	0.0831	0.0639	0.0852	0.0681	0.0852	0.0660	0.0916	0.0681	0.0917	0.0682
78.0	0.0746	0.0554	0.0767	0.0575	0.0767	0.0618	0.0768	0.0639	0.0789	0.0618
81.0	0.0661	0.0447	0.0682	0.0468	0.0682	0.0489	0.0682	0.0490	0.0682	0.0489
84.0	0.0554	0.0319	0.0554	0.0341	0.0575	0.0362	0.0555	0.0341	0.0575	0.0341
87.0	0.0427	0.0298	0.0448	0.0298	0.0448	0.0298	0.0469	0.0298	0.0427	0.0320
90.0	0.0320	0.0298	0.0320	0.0298	0.0320	0.0298	0.0320	0.0298	0.0320	0.0320
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1763	1763	1766	1766	1764	1765	1764	1764	1763	1764
3.0	1681	1698	1719	1718	1722	1722	1725	1719	1716	1713
6.0	1520	1534	1570	1574	1598	1600	1611	1598	1594	1585
9.0	1259	1283	1305	1307	1330	1337	1358	1350	1366	1362
12.0	926.3	943.3	958.2	945.6	980.4	984.0	1004	1003	1022	1023
15.0	622.5	631.1	649.0	637.7	661.7	655.9	674.6	670.3	704.6	709.2
18.0	385.9	389.7	402.0	398.8	414.6	415.1	429.2	428.2	442.0	439.5
21.0	235.4	237.5	244.1	242.1	255.5	254.5	265.0	259.9	268.0	264.5
24.0	158.1	159.4	157.4	154.9	165.4	168.4	178.7	177.8	170.7	172.6
27.0	118.3	117.1	118.8	115.2	117.7	116.5	116.0	115.0	116.1	116.5
30.0	67.35	65.13	65.26	66.27	64.51	64.35	65.16	65.02	65.10	67.55
33.0	31.13	31.74	33.34	31.67	33.32	33.80	36.47	37.00	39.65	40.10
36.0	13.55	13.59	13.32	13.17	13.57	12.43	12.88	12.00	13.84	14.66
39.0	7.604	7.467	7.384	7.321	7.613	7.544	7.761	7.773	8.135	8.791
42.0	1.568	1.533	1.563	1.447	1.474	1.438	1.531	1.543	1.746	1.736
45.0	0.5566	0.5427	0.5424	0.5090	0.5062	0.5026	0.5420	0.5537	0.6188	0.6453
48.0	0.4306	0.4173	0.4087	0.4071	0.3767	0.3922	0.3703	0.4199	0.4449	0.5009
51.0	0.3581	0.3427	0.3363	0.3368	0.3086	0.3240	0.3001	0.3432	0.3576	0.4051
54.0	0.2942	0.2832	0.2725	0.2750	0.2470	0.2643	0.2448	0.2814	0.2831	0.3219
57.0	0.2430	0.2321	0.2235	0.2281	0.2022	0.2217	0.1980	0.2302	0.2235	0.2558
60.0	0.2046	0.1937	0.1809	0.1897	0.1639	0.1833	0.1618	0.1897	0.1766	0.2025
63.0	0.1727	0.1575	0.1447	0.1556	0.1320	0.1556	0.1320	0.1599	0.1405	0.1684
66.0	0.1386	0.1277	0.1150	0.1279	0.1085	0.1321	0.1086	0.1343	0.1149	0.1364
69.0	0.1194	0.1043	0.0937	0.1066	0.0873	0.1130	0.0873	0.1130	0.0937	0.1172
72.0	0.1044	0.0915	0.0767	0.0959	0.0745	0.1001	0.0724	0.1002	0.0808	0.1002
75.0	0.0938	0.0745	0.0660	0.0852	0.0639	0.0853	0.0639	0.0895	0.0660	0.0895
78.0	0.0810	0.0618	0.0638	0.0746	0.0575	0.0788	0.0617	0.0789	0.0596	0.0788
81.0	0.0703	0.0468	0.0447	0.0639	0.0426	0.0682	0.0426	0.0682	0.0447	0.0661
84.0	0.0555	0.0320	0.0298	0.0512	0.0298	0.0533	0.0298	0.0554	0.0320	0.0533
87.0	0.0427	0.0320	0.0256	0.0363	0.0256	0.0384	0.0256	0.0384	0.0256	0.0405
90.0	0.0320	0.0320	0.0256	0.0277	0.0256	0.0256	0.0256	0.0256	0.0256	0.0277
G/C	300.0	315.0	330.0	345.0						
0.0	1763	1763	1763	1763						
3.0	1722	1721	1721	1715						
6.0	1606	1606	1612	1601						
9.0	1381	1387	1408	1423						
12.0	1055	1069	1106	1110						
15.0	727.3	746.2	773.7	764.7						
18.0	461.6	463.8	477.6	471.1						
21.0	276.8	278.8	285.8	276.0						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

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: 53.0%

Test Distance: 5.850m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	181.0	179.8	186.4	178.9
27.0	123.4	125.4	133.0	130.9
30.0	69.61	72.02	78.77	81.91
33.0	43.76	44.43	47.94	47.47
36.0	15.73	15.51	16.09	15.07
39.0	9.008	8.794	8.539	8.189
42.0	2.057	2.223	2.900	2.831
45.0	0.7230	0.7415	0.8072	0.8035
48.0	0.5172	0.5456	0.5108	0.5200
51.0	0.4128	0.4371	0.4086	0.4242
54.0	0.3172	0.3432	0.3171	0.3368
57.0	0.2448	0.2686	0.2405	0.2664
60.0	0.1915	0.2132	0.1851	0.2046
63.0	0.1490	0.1706	0.1426	0.1620
66.0	0.1192	0.1386	0.1128	0.1321
69.0	0.0937	0.1172	0.0894	0.1129
72.0	0.0767	0.1001	0.0745	0.0959
75.0	0.0660	0.0874	0.0639	0.0852
78.0	0.0575	0.0810	0.0596	0.0810
81.0	0.0468	0.0682	0.0511	0.0703
84.0	0.0319	0.0533	0.0340	0.0554
87.0	0.0256	0.0427	0.0298	0.0448
90.0	0.0256	0.0277	0.0256	0.0277

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
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: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks: