

LED Downlight FUSION Series FF3-7W-840-24D Black



Light Output Ratio:	100.0%	
Luminaire Power:	8.882 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

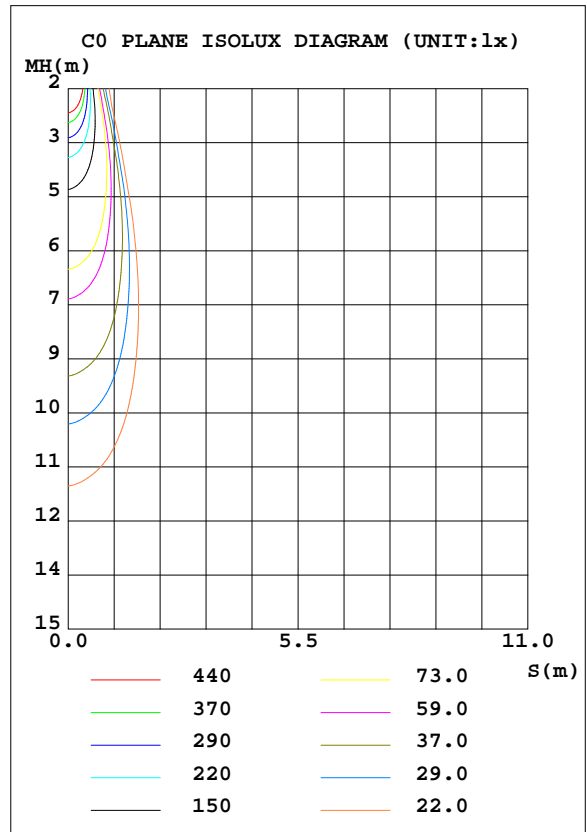
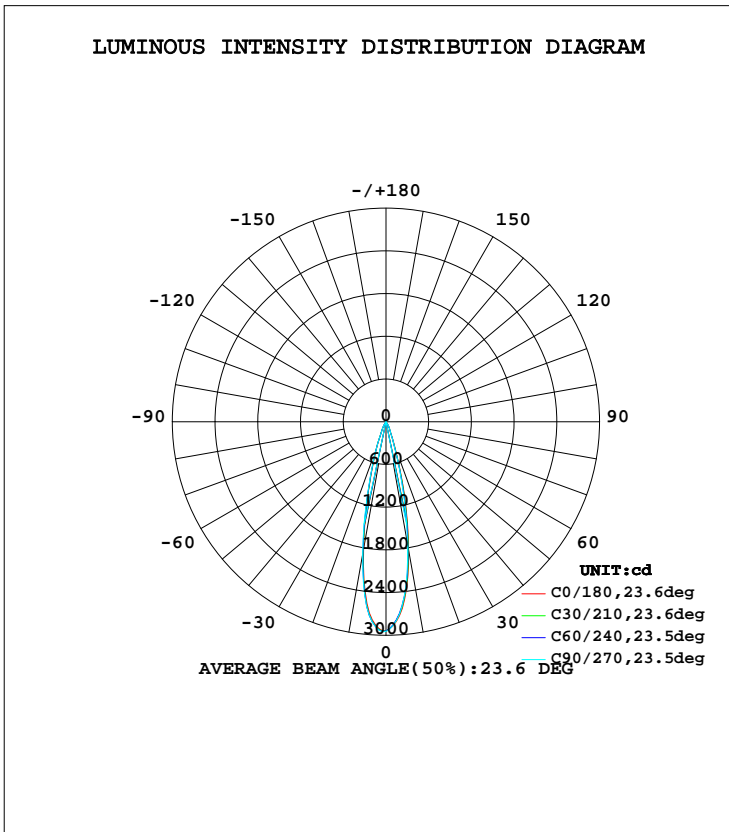
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2016-06-24

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:0.0484A P:8.882W PF:0.8337 Lamp Flux:565.853x1 lm		
NAME: FF3-7W-840-24D Black	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L98mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 63.70 lm/W
MODEL	CREE-4000K	I _{max} (cd)	2953	S/MH(C0/180)	0.39	
NOMINAL POWER(W)	8.5	LOR(%)	100.0	S/MH(C90/270)	0.40	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	565.85	η UP, DN(C0-180)	0.0, 48.5	
NOMINAL FLUX(lm)	565.853	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 51.5	
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	



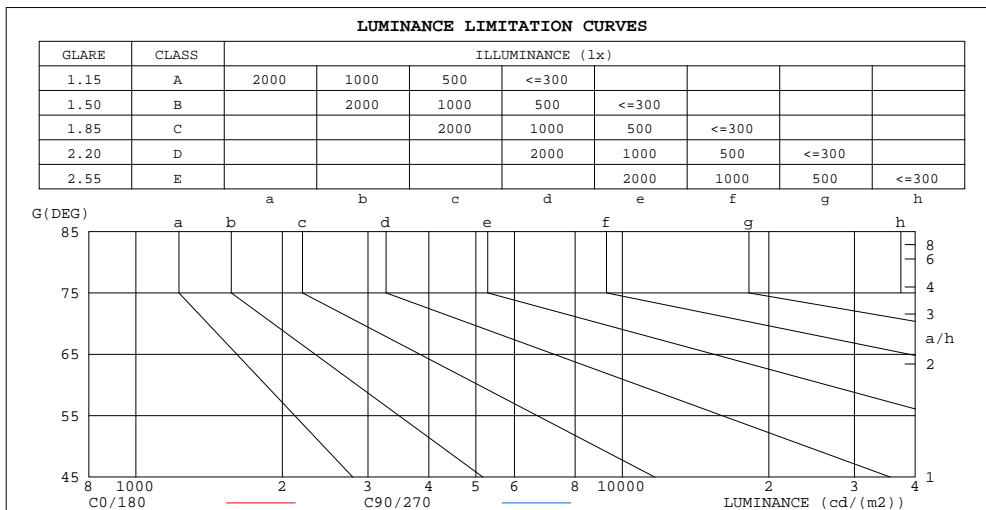
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1836	1824	1754	1776	1823	1832	1896	1898	0- 10	227.3	227.3	40.2,40.2
20	322.7	310.3	296.2	344.5	378.4	396.5	394.0	371.5	10- 20	250.8	478.1	84.5,84.5
30	77.12	79.87	77.07	78.96	76.33	79.97	78.66	82.09	20- 30	72.69	550.8	97.3,97.3
40	2.023	2.495	2.445	2.397	1.872	2.654	2.263	2.270	30- 40	14.37	565.2	99.9,99.9
50	0.2154	0.2320	0.2324	0.2001	0.1830	0.2196	0.1936	0.2153	40- 50	0.4030	565.6	100,100
60	0.1109	0.1001	0.1088	0.0936	0.0702	0.1044	0.0788	0.1087	50- 60	0.1286	565.7	100,100
70	0.0789	0.0617	0.0640	0.0447	0.0298	0.0554	0.0362	0.0703	60- 70	0.0726	565.8	100,100
80	0.0596	0.0405	0.0383	0.0298	0.0085	0.0341	0.0170	0.0554	70- 80	0.0473	565.8	100,100
90	0.0533	0.0405	0.0213	0.0192	0.0149	0.0128	0.0149	0.0383	80- 90	0.0337	565.9	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	144	72
80	78	50
75	62	45
70	52	42
65	48	45
60	50	49
55	60	61
50	76	82
45	112	120

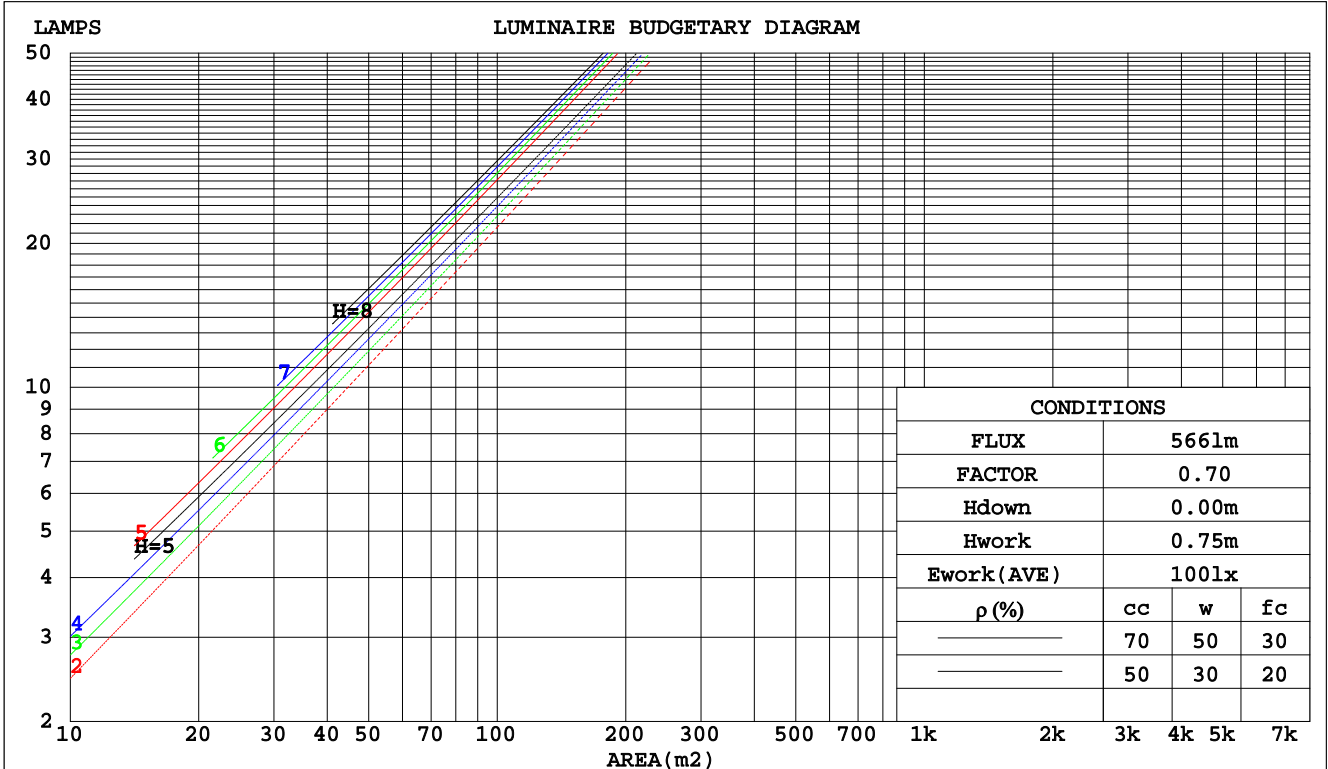
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γ Range: 0 - 90DEG
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
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 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:0.0484A P:8.882W PF:0.8337 Lamp Flux:565.853x1 lm		
NAME: FF3-7W-840-24D Black	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L98mm*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	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	1.10	1.08	1.07	1.06	1.05	1.03	1.03	1.02	1.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.07	1.04	1.02	1.04	1.02	.00	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.01	.98	1.03	.00	.97	1.00	.98	.96	.98	.96	.94	.96	.94	.93	.92
4.0	1.00	.97	.94	.99	.96	.93	.97	.95	.92	.96	.93	.91	.94	.92	.90	.89
5.0	.97	.93	.90	.96	.93	.90	.95	.92	.89	.93	.91	.88	.92	.90	.88	.87
6.0	.94	.90	.87	.93	.90	.87	.92	.89	.87	.91	.88	.86	.90	.87	.85	.84
7.0	.91	.87	.85	.91	.87	.84	.90	.86	.84	.89	.86	.84	.88	.85	.83	.82
8.0	.89	.85	.82	.88	.85	.82	.87	.84	.82	.87	.84	.82	.86	.83	.81	.80
9.0	.86	.83	.80	.86	.82	.80	.85	.82	.80	.85	.82	.80	.84	.81	.79	.78
10.0	.84	.81	.78	.84	.80	.78	.83	.80	.78	.83	.80	.78	.82	.79	.78	.77



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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	.131	.074	.024	.124	.071	.022	.112	.064	.020	.100	.058	.019	.090	.052	.017	
2.0	.120	.066	.020	.115	.063	.019	.105	.058	.018	.095	.053	.017	.087	.049	.015	
3.0	.112	.059	.018	.107	.057	.017	.099	.053	.016	.091	.050	.015	.084	.046	.014	
4.0	.104	.054	.016	.101	.053	.016	.093	.050	.015	.087	.047	.014	.081	.044	.013	
5.0	.098	.050	.014	.095	.049	.014	.089	.046	.014	.083	.044	.013	.078	.042	.013	
6.0	.093	.046	.013	.090	.045	.013	.085	.043	.013	.080	.042	.012	.075	.040	.012	
7.0	.088	.043	.012	.086	.043	.012	.081	.041	.012	.077	.039	.011	.073	.038	.011	
8.0	.084	.041	.011	.082	.040	.011	.078	.039	.011	.074	.038	.011	.071	.036	.011	
9.0	.080	.039	.011	.078	.038	.011	.075	.037	.010	.071	.036	.010	.068	.035	.010	
10.0	.077	.037	.010	.075	.036	.010	.072	.035	.010	.069	.034	.010	.066	.033	.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	.149	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.149	.133	.119	.128	.114	.103	.088	.079	.072	.051	.046	.042	.016	.015	.014	
3.0	.134	.113	.097	.115	.098	.084	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.121	.098	.080	.104	.084	.069	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.110	.085	.067	.095	.074	.058	.065	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.101	.075	.057	.087	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.094	.067	.048	.080	.058	.042	.056	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.087	.060	.042	.075	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.081	.054	.036	.070	.047	.032	.048	.033	.022	.028	.020	.013	.009	.006	.004	
10.0	.076	.050	.032	.066	.043	.028	.046	.030	.020	.027	.018	.012	.009	.006	.004	

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 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:220.0V I:0.0484A P:8.882W PF:0.8337 Lamp Flux:565.853x1 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	3.1	3.7	3.3	3.9	4.0	3.6	4.2	3.8	4.4	4.5
3H	3.0	3.5	3.2	3.7	3.9	3.5	4.1	3.7	4.2	4.4
4H	2.9	3.4	3.2	3.6	3.9	3.4	4.0	3.7	4.2	4.4
6H	2.8	3.3	3.1	3.6	3.8	3.3	3.9	3.6	4.1	4.3
8H	2.8	3.3	3.1	3.5	3.8	3.3	3.8	3.6	4.0	4.3
12H	2.7	3.2	3.0	3.5	3.7	3.3	3.7	3.6	4.0	4.2
4H 2H	2.9	3.4	3.2	3.6	3.9	3.4	4.0	3.7	4.2	4.4
3H	2.7	3.2	3.0	3.5	3.7	3.2	3.7	3.6	4.0	4.2
4H	2.6	3.1	3.0	3.4	3.7	3.2	3.6	3.5	3.9	4.2
6H	2.5	2.9	2.9	3.3	3.6	3.1	3.4	3.4	3.8	4.1
8H	2.5	2.9	2.9	3.2	3.6	3.0	3.4	3.4	3.7	4.1
12H	2.4	2.8	2.9	3.2	3.5	2.9	3.3	3.3	3.6	4.0
8H 4H	2.5	2.8	2.9	3.2	3.6	3.0	3.4	3.4	3.7	4.1
6H	2.4	2.7	2.8	3.1	3.5	2.9	3.2	3.3	3.6	4.0
8H	2.3	2.6	2.8	3.0	3.4	2.8	3.1	3.3	3.5	3.9
12H	2.3	2.5	2.7	3.0	3.4	2.8	3.0	3.2	3.4	3.9
12H 4H	2.4	2.8	2.8	3.1	3.5	2.9	3.3	3.3	3.6	4.0
6H	2.3	2.6	2.8	3.0	3.4	2.8	3.1	3.3	3.5	3.9
8H	2.3	2.5	2.7	2.9	3.4	2.8	3.0	3.2	3.4	3.9
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / - 4.9					+ 4.2 / - 7.8				
1.5H	+ 6.1 / - 4.6					+ 6.8 / - 7.3				
2.0H	+ 0.7 / - 0.5					+ 1.6 / - 0.8				

CIE Pub.117 Corrected 565.9 lm Total Lamp Luminous Flux. (8log(F/F0) = -2.0)

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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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 Humidity:52%
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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	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

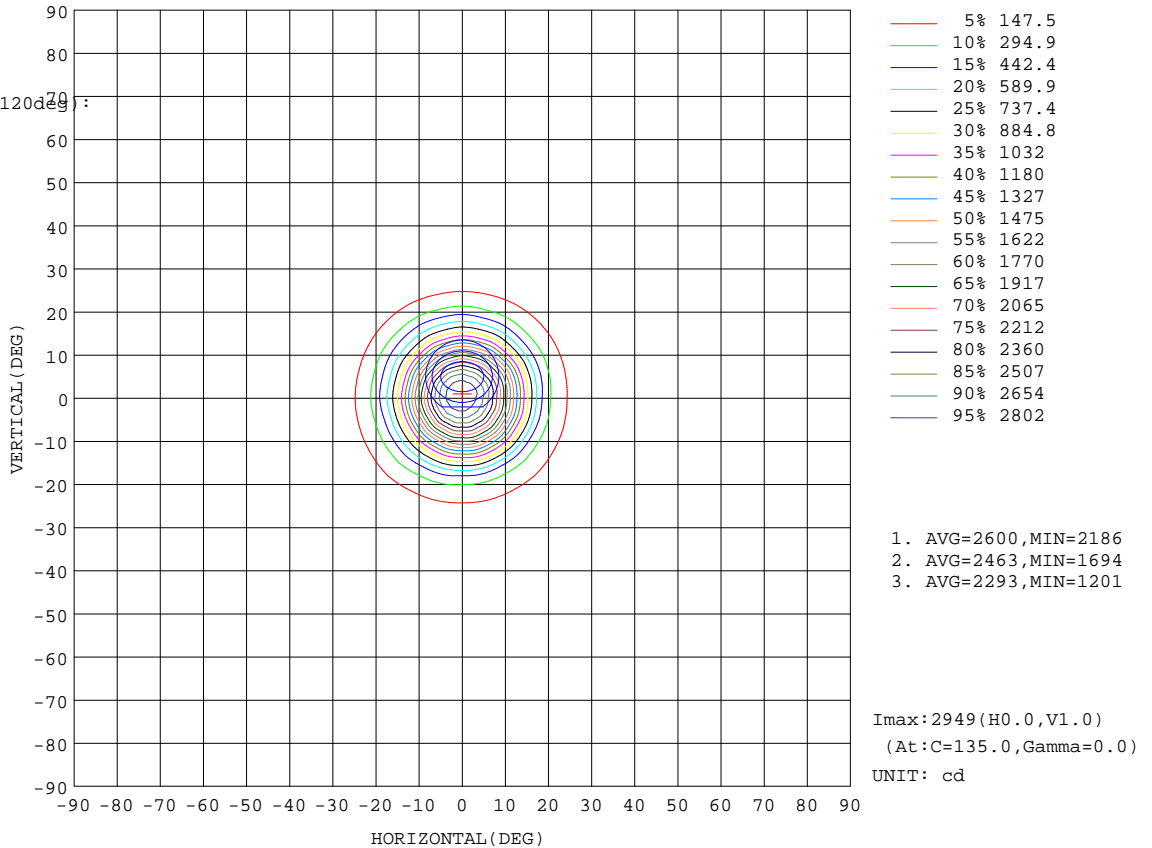
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Conical surface Flux(90deg):

565.46 lm
%lum = 99.9%
%lamp = 99.9%

Conical surface Flux(120deg):

565.7 lm
%lum = 100.0%
%lamp = 100.0%

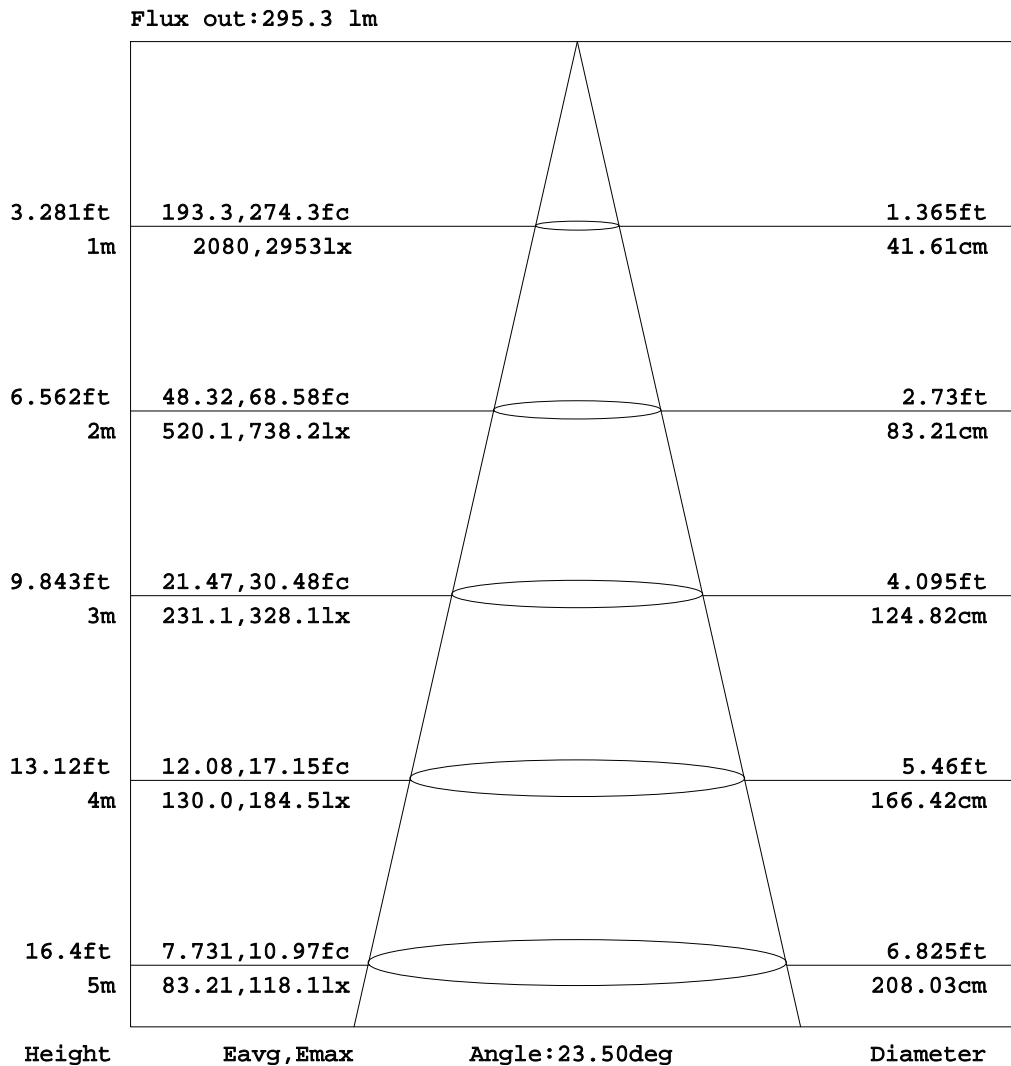


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AAI Figure

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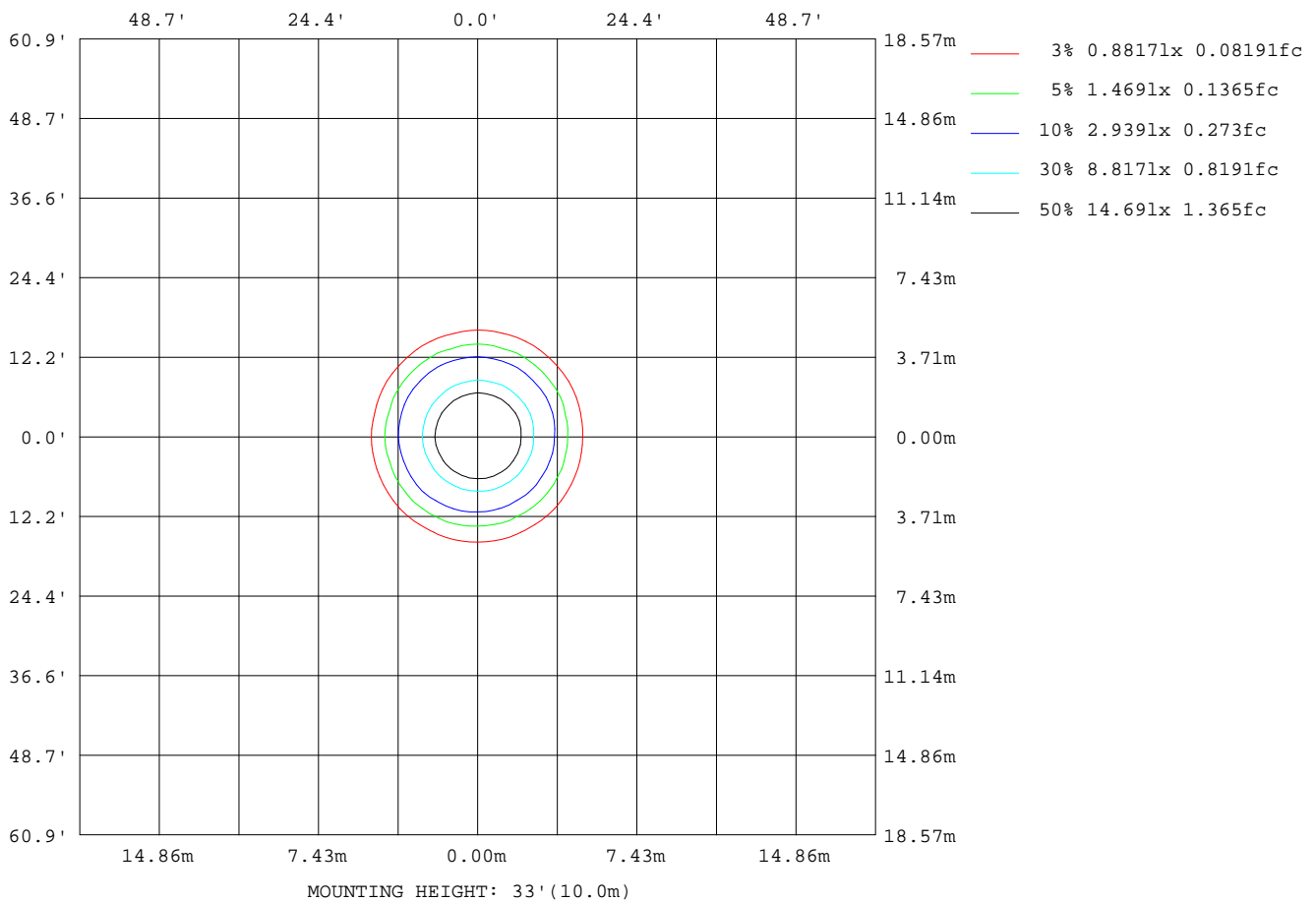
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

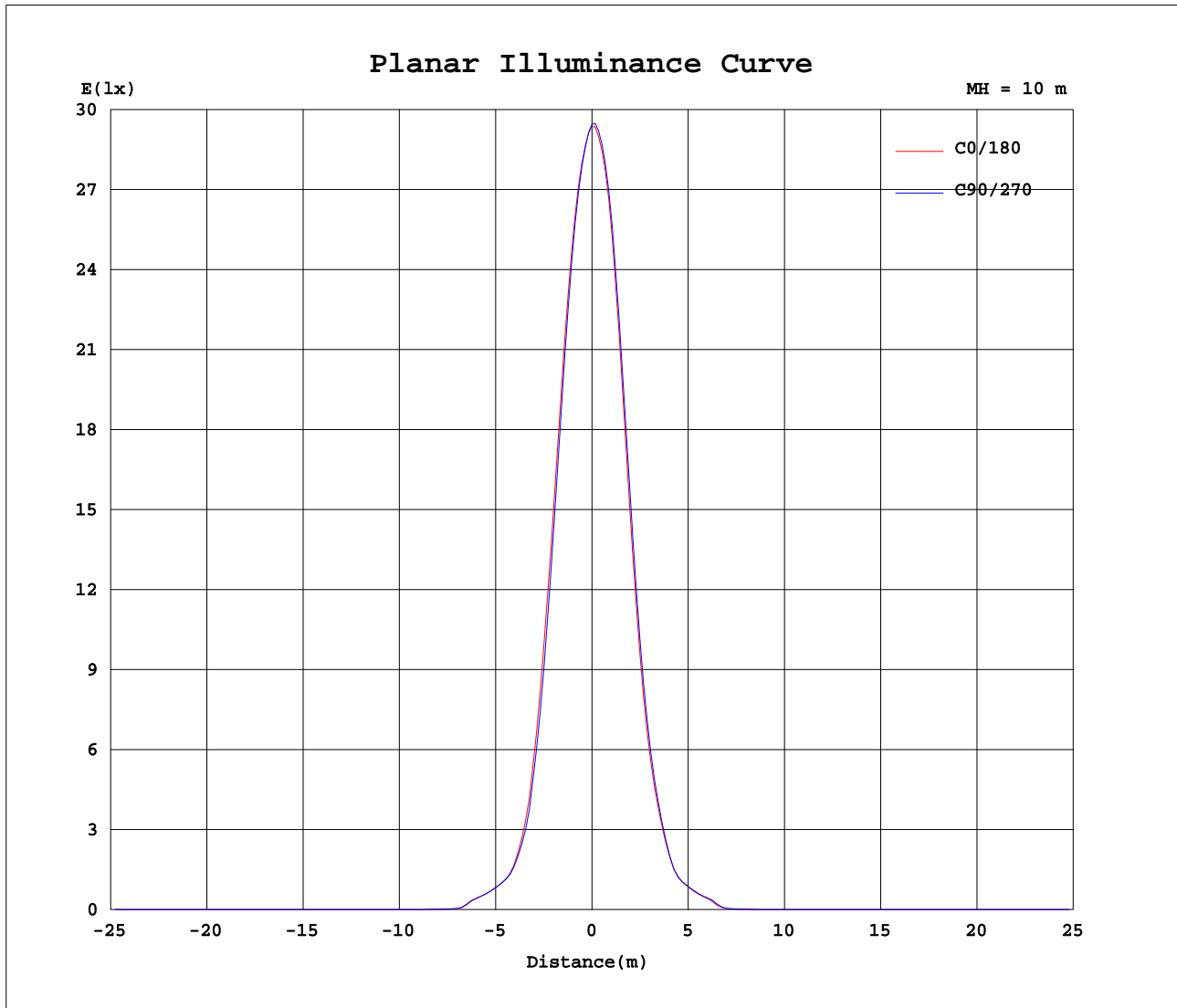
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Planar Illuminance Curve



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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	2939	2941	2938	2940	2938	2948	2945	2946	2945	2953
3.0	2808	2810	2794	2799	2787	2805	2795	2811	2805	2831
6.0	2510	2515	2489	2495	2470	2493	2468	2494	2477	2518
9.0	2027	2041	2007	2016	1975	1994	1950	1971	1942	1983
12.0	1452	1463	1425	1432	1389	1403	1363	1372	1345	1379
15.0	916.3	922.1	885.9	891.7	859.3	861.1	830.6	846.0	831.0	851.9
18.0	488.3	484.2	462.5	466.5	443.7	454.2	438.5	464.6	462.5	492.7
21.0	264.3	263.5	256.6	256.7	245.1	250.3	248.5	260.8	262.7	283.5
24.0	152.4	153.0	152.2	153.0	150.6	152.6	151.5	154.7	155.1	160.3
27.0	110.6	109.4	110.0	110.3	109.5	111.2	110.7	112.0	109.9	111.0
30.0	77.12	78.37	78.07	79.87	78.31	78.05	77.07	77.49	77.56	78.96
33.0	31.77	35.50	35.94	38.77	35.97	38.16	35.71	37.52	35.63	37.57
36.0	5.497	5.964	6.632	7.175	6.931	6.898	6.679	6.812	6.813	7.015
39.0	2.483	2.669	3.184	3.526	3.357	3.347	3.308	3.209	3.203	3.317
42.0	0.6274	0.6509	0.7054	0.7466	0.7658	0.7445	0.6902	0.6890	0.6806	0.6719
45.0	0.3478	0.3469	0.3883	0.3959	0.4202	0.3916	0.3733	0.3448	0.3520	0.3384
48.0	0.2559	0.2469	0.2857	0.2831	0.3071	0.2809	0.2772	0.2448	0.2602	0.2448
51.0	0.1983	0.1894	0.2197	0.2108	0.2346	0.2086	0.2112	0.1831	0.2005	0.1809
54.0	0.1620	0.1448	0.1727	0.1639	0.1855	0.1618	0.1663	0.1426	0.1599	0.1405
57.0	0.1322	0.1171	0.1428	0.1320	0.1492	0.1298	0.1343	0.1128	0.1279	0.1107
60.0	0.1109	0.0980	0.1173	0.1001	0.1194	0.0980	0.1088	0.0937	0.1087	0.0936
63.0	0.0980	0.0788	0.1023	0.0809	0.1002	0.0766	0.0938	0.0703	0.0895	0.0724
66.0	0.0874	0.0639	0.0874	0.0682	0.0852	0.0618	0.0768	0.0618	0.0810	0.0639
69.0	0.0831	0.0618	0.0767	0.0660	0.0767	0.0490	0.0682	0.0469	0.0682	0.0511
72.0	0.0746	0.0596	0.0682	0.0511	0.0682	0.0425	0.0576	0.0383	0.0618	0.0383
75.0	0.0703	0.0596	0.0640	0.0447	0.0597	0.0320	0.0511	0.0298	0.0490	0.0298
78.0	0.0660	0.0596	0.0596	0.0405	0.0511	0.0320	0.0447	0.0298	0.0448	0.0298
81.0	0.0596	0.0618	0.0596	0.0405	0.0490	0.0277	0.0362	0.0192	0.0384	0.0213
84.0	0.0554	0.0617	0.0512	0.0405	0.0405	0.0234	0.0319	0.0170	0.0299	0.0149
87.0	0.0554	0.0490	0.0511	0.0405	0.0384	0.0234	0.0256	0.0170	0.0256	0.0149
90.0	0.0533	0.0490	0.0469	0.0405	0.0383	0.0234	0.0213	0.0192	0.0192	0.0192
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2949	2950	2938	2941	2938	2948	2945	2946	2945	2953
3.0	2829	2840	2855	2857	2870	2867	2877	2875	2880	2860
6.0	2513	2540	2566	2565	2596	2585	2605	2593	2608	2574
9.0	1962	1998	2031	2015	2053	2038	2076	2062	2094	2075
12.0	1358	1388	1421	1396	1438	1419	1466	1444	1493	1474
15.0	839.3	860.3	889.7	877.4	903.0	895.0	928.6	915.1	945.7	937.2
18.0	490.9	498.6	537.4	533.2	554.1	559.5	567.6	561.2	569.6	559.2
21.0	284.5	288.4	309.0	307.1	326.2	319.2	327.9	311.1	321.4	303.9
24.0	158.9	160.5	166.2	161.9	167.2	165.4	166.2	161.4	162.8	161.2
27.0	111.4	111.3	112.6	111.1	114.5	113.0	114.5	114.1	116.1	116.6
30.0	76.77	76.88	76.33	76.54	78.12	79.97	79.90	77.76	78.66	79.73
33.0	36.43	31.57	29.55	31.07	38.11	36.13	37.46	34.65	37.01	36.78
36.0	6.720	6.429	6.302	6.724	7.225	7.096	6.991	6.522	6.390	6.459
39.0	3.288	2.572	2.634	2.767	3.675	3.571	3.520	3.081	3.092	2.962
42.0	0.6377	0.5932	0.5949	0.5985	0.6439	0.6541	0.6590	0.6616	0.6251	0.6362
45.0	0.3392	0.3129	0.3106	0.3327	0.3319	0.3519	0.3468	0.3668	0.3276	0.3434
48.0	0.2474	0.2277	0.2255	0.2452	0.2362	0.2601	0.2490	0.2665	0.2319	0.2516
51.0	0.1920	0.1639	0.1638	0.1876	0.1766	0.2004	0.1873	0.2068	0.1724	0.1898
54.0	0.1535	0.1277	0.1234	0.1450	0.1320	0.1599	0.1405	0.1641	0.1341	0.1535
57.0	0.1215	0.0979	0.0936	0.1151	0.1022	0.1300	0.1128	0.1300	0.1022	0.1215
60.0	0.1023	0.0745	0.0702	0.0938	0.0830	0.1044	0.0894	0.1066	0.0788	0.1023
63.0	0.0831	0.0617	0.0574	0.0767	0.0639	0.0895	0.0681	0.0895	0.0639	0.0853
66.0	0.0704	0.0426	0.0383	0.0576	0.0511	0.0746	0.0617	0.0746	0.0511	0.0725
69.0	0.0639	0.0340	0.0298	0.0511	0.0383	0.0597	0.0426	0.0618	0.0383	0.0639
72.0	0.0512	0.0298	0.0298	0.0426	0.0320	0.0512	0.0341	0.0533	0.0341	0.0575
75.0	0.0469	0.0277	0.0107	0.0362	0.0277	0.0427	0.0298	0.0426	0.0320	0.0469
78.0	0.0405	0.0192	0.0085	0.0320	0.0191	0.0405	0.0255	0.0405	0.0255	0.0426
81.0	0.0320	0.0192	0.0085	0.0256	0.0128	0.0320	0.0149	0.0320	0.0149	0.0405
84.0	0.0277	0.0192	0.0085	0.0234	0.0128	0.0277	0.0107	0.0256	0.0149	0.0341
87.0	0.0256	0.0192	0.0085	0.0234	0.0128	0.0192	0.0107	0.0213	0.0149	0.0298
90.0	0.0213	0.0213	0.0149	0.0170	0.0149	0.0128	0.0128	0.0170	0.0149	0.0256
G/C	300.0	315.0	330.0	345.0						
0.0	2945	2953	2949	2950						
3.0	2863	2854	2853	2845						
6.0	2592	2578	2585	2567						
9.0	2105	2089	2110	2087						
12.0	1512	1505	1531	1502						
15.0	971.6	955.4	980.3	954.4						
18.0	567.1	556.6	548.5	540.2						
21.0	314.5	299.5	305.1	288.2						

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	163.8	162.7	162.4	156.4
27.0	116.2	115.3	115.1	111.7
30.0	82.27	82.09	79.78	78.37
33.0	39.36	37.80	37.36	34.17
36.0	6.889	6.800	6.554	5.771
39.0	3.199	3.281	3.226	2.621
42.0	0.6422	0.6441	0.6251	0.6195
45.0	0.3362	0.3455	0.3255	0.3391
48.0	0.2383	0.2537	0.2277	0.2515
51.0	0.1766	0.1962	0.1745	0.1919
54.0	0.1362	0.1578	0.1321	0.1577
57.0	0.1064	0.1300	0.1107	0.1321
60.0	0.0915	0.1087	0.0915	0.1130
63.0	0.0723	0.0938	0.0745	0.0981
66.0	0.0618	0.0810	0.0639	0.0874
69.0	0.0511	0.0746	0.0618	0.0767
72.0	0.0468	0.0661	0.0490	0.0725
75.0	0.0362	0.0618	0.0447	0.0703
78.0	0.0320	0.0575	0.0447	0.0661
81.0	0.0320	0.0533	0.0447	0.0639
84.0	0.0320	0.0490	0.0383	0.0639
87.0	0.0319	0.0447	0.0383	0.0576
90.0	0.0298	0.0383	0.0383	0.0469

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: