
LED Downlight SENSE Series LE-
S125S1-18W-930-M

Light Output Ratio:	100.0%	
Luminaire Power:	19.53 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-07-17

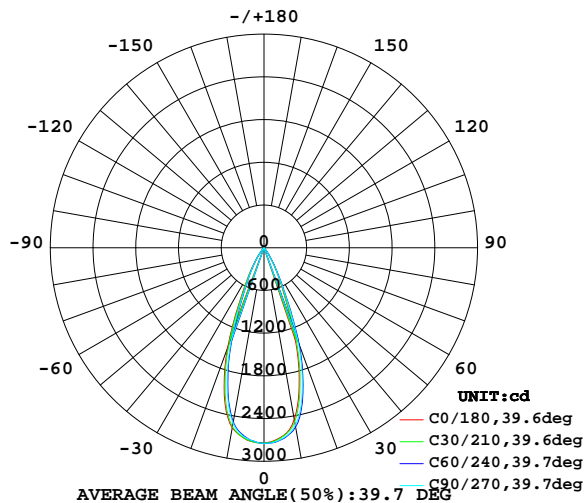
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

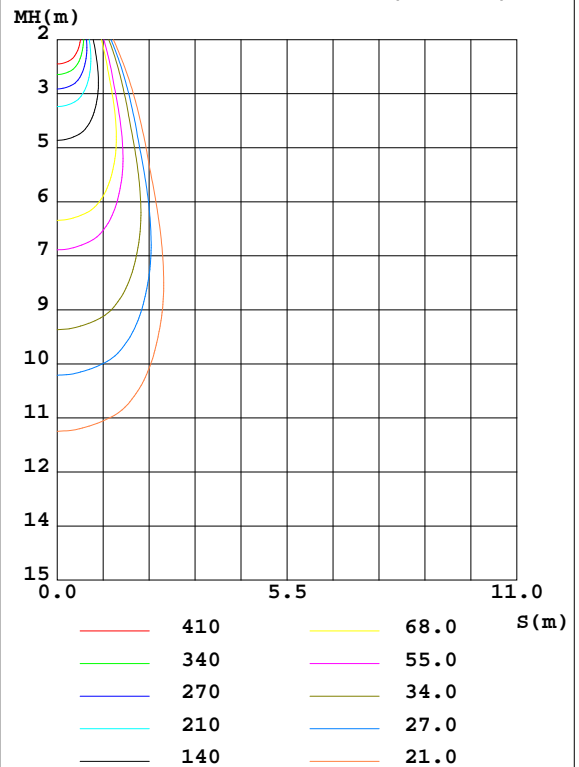
Test:U:220.7V I:0.0943A P:19.53W PF:0.9285 Lamp Flux:1233.15x1 lm		
NAME: S125S1-18W-930-M	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L135mm*W135mm*H157mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.14 lm/W			
MODEL	CITIZEN-3000K	Imax(cd)	2748	S/MH(C0/180)	0.63
NOMINAL POWER(W)	21	LOR(%)	100.0	S/MH(C90/270)	0.59
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1233.1	η UP,DN(C0-180)	0.0,48.3
NOMINAL FLUX(lm)	1233.15	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	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



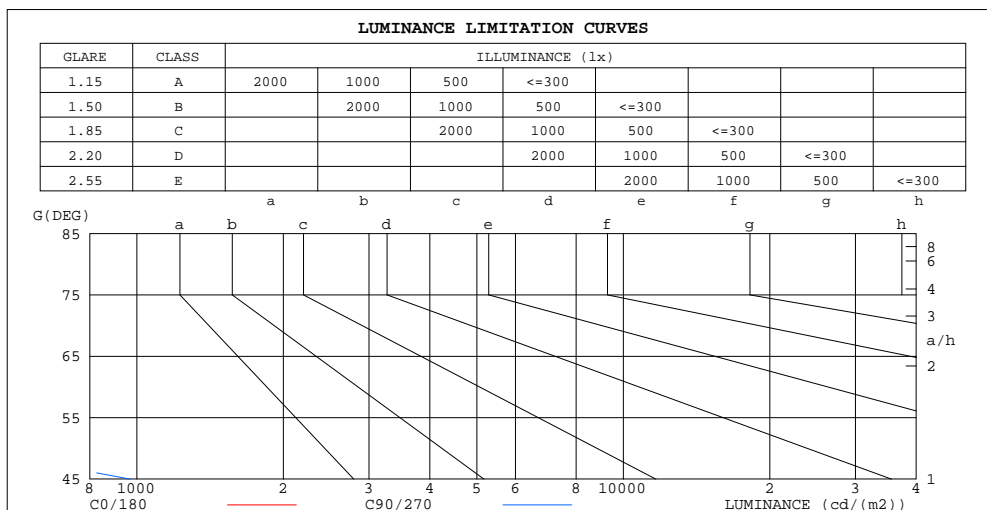
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γ Range: 0 - 90DEG
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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 Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	2447	2548	2534	2477	2570	2489	2500	2558	0- 10	252.1	252.1	20.4,20.4
20	1189	1410	1399	1252	1493	1273	1299	1427	10- 20	550.3	802.4	65.1,65.1
30	290.8	318.6	293.8	266.8	380.2	327.1	339.3	366.1	20- 30	319.2	1122	91,91
40	35.47	39.34	33.24	35.37	56.71	51.98	56.90	67.70	30- 40	93.07	1215	98.5,98.5
50	4.880	7.922	5.517	7.412	6.683	8.125	5.768	9.337	40- 50	14.99	1230	99.7,99.7
60	0.4197	1.486	0.7592	1.689	1.094	1.570	0.6991	1.761	50- 60	3.040	1233	100,100
70	0.0705	0.0918	0.1272	0.1638	0.1659	0.1641	0.0978	0.1269	60- 70	0.3738	1233	100,100
80	0.0612	0.0503	0.0590	0.0591	0.0634	0.0525	0.0437	0.0503	70- 80	0.0721	1233	100,100
90	0.0590	0.0525	0.0590	0.0634	0.0568	0.0525	0.0437	0.0481	80- 90	0.0589	1233	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	37
80	19	19
75	13	13
70	11	20
65	24	29
60	46	83
55	191	257
50	417	471
45	818	970

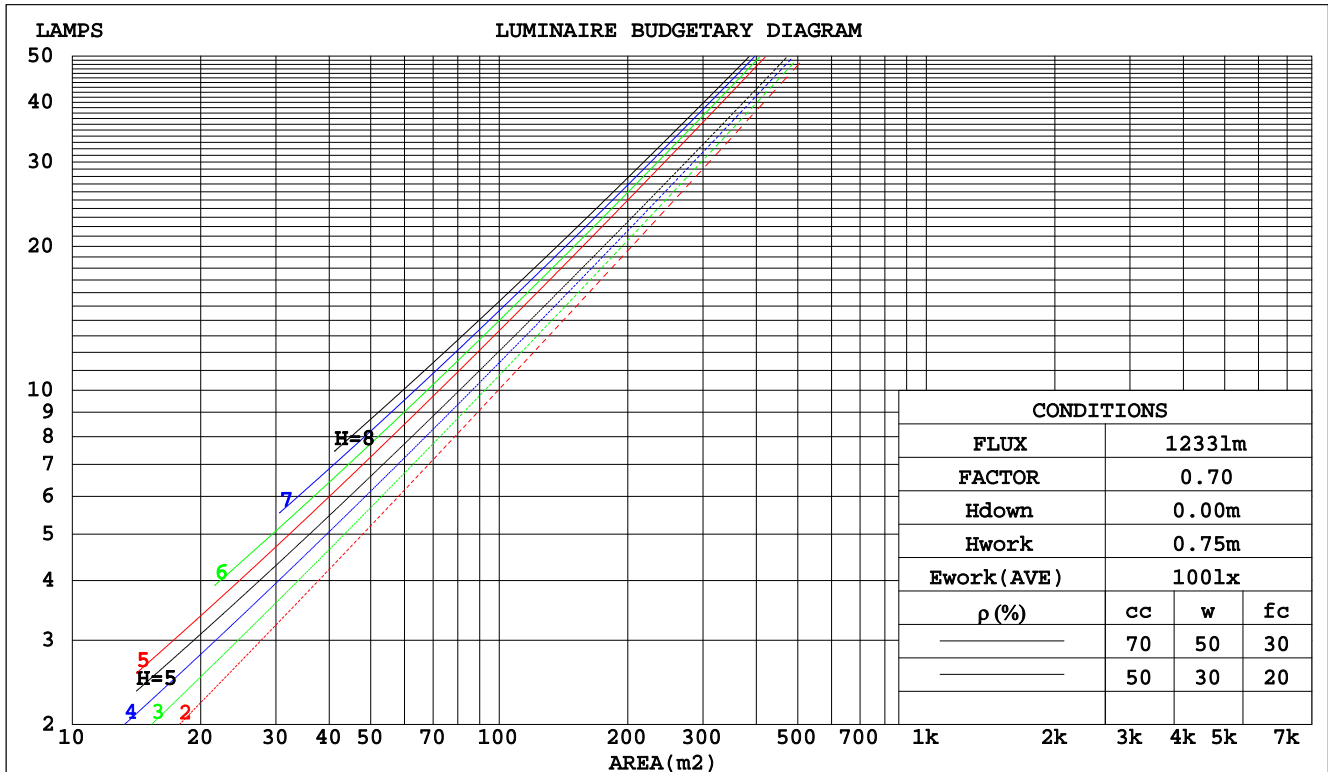
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0943A P:19.53W PF:0.9285 Lamp Flux:1233.15x1 lm		
NAME: S125S1-18W-930-M	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L135mm*W135mm*H157mm	
MFR.:		

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	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.91	.88	.95	.91	.87	.93	.89	.86	.91	.88	.85	.89	.86	.84	.83
5.0	.91	.87	.83	.90	.86	.83	.89	.85	.82	.87	.84	.81	.86	.83	.81	.79
6.0	.87	.82	.79	.87	.82	.79	.85	.81	.78	.84	.80	.78	.83	.80	.77	.76
7.0	.84	.79	.75	.83	.78	.75	.82	.78	.75	.81	.77	.74	.80	.76	.74	.73
8.0	.80	.75	.72	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
10.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.72	.68	.66	.65



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WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.151	.086	.027	.145	.082	.026	.132	.076	.024	.121	.070	.022	.110	.064	.021		
2.0	.142	.078	.024	.136	.075	.023	.126	.070	.022	.117	.065	.020	.108	.061	.019		
3.0	.134	.071	.021	.129	.069	.021	.120	.065	.020	.112	.062	.019	.105	.058	.018		
4.0	.127	.066	.019	.123	.064	.019	.115	.061	.018	.108	.058	.018	.102	.055	.017		
5.0	.120	.061	.018	.117	.060	.017	.110	.057	.017	.104	.055	.016	.099	.053	.016		
6.0	.114	.057	.016	.112	.056	.016	.106	.054	.016	.101	.052	.015	.096	.051	.015		
7.0	.109	.054	.015	.107	.053	.015	.102	.052	.015	.097	.050	.015	.093	.048	.014		
8.0	.105	.051	.014	.102	.050	.014	.098	.049	.014	.094	.048	.014	.090	.046	.014		
9.0	.100	.049	.014	.098	.048	.013	.095	.047	.013	.091	.046	.013	.088	.045	.013		
10.0	.097	.046	.013	.095	.046	.013	.091	.045	.013	.088	.044	.012	.085	.043	.012		

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						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	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.119	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.127	.098	.077	.109	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.076	.053	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.102	.069	.045	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.096	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

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Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0943A P:19.53W PF:0.9285 Lamp Flux:1233.15x1 lm										
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SPEC.:3000K					DIM.: L135mm*W135mm*H157mm					
MFR.:										
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	6.4	7.2	6.6	7.3	7.5	6.6	7.3	6.8	7.5	7.6
3H	6.2	6.9	6.5	7.1	7.3	6.4	7.1	6.6	7.3	7.5
4H	6.2	6.8	6.4	7.0	7.2	6.3	7.0	6.6	7.2	7.4
6H	6.1	6.7	6.4	6.9	7.2	6.2	6.9	6.5	7.1	7.3
8H	6.0	6.6	6.3	6.9	7.1	6.2	6.8	6.5	7.0	7.3
12H	6.0	6.6	6.3	6.8	7.1	6.1	6.7	6.4	7.0	7.2
4H 2H	6.2	6.8	6.4	7.0	7.2	6.3	7.0	6.6	7.2	7.4
3H	6.0	6.6	6.3	6.8	7.1	6.1	6.7	6.5	7.0	7.3
4H	5.9	6.4	6.2	6.7	7.0	6.0	6.6	6.4	6.9	7.2
6H	5.8	6.3	6.2	6.6	6.9	5.9	6.4	6.3	6.7	7.1
8H	5.7	6.2	6.1	6.5	6.9	5.9	6.3	6.3	6.7	7.0
12H	5.7	6.1	6.1	6.4	6.8	5.8	6.2	6.2	6.6	7.0
8H 4H	5.7	6.2	6.1	6.5	6.9	5.9	6.3	6.3	6.7	7.0
6H	5.6	6.0	6.0	6.4	6.8	5.8	6.1	6.2	6.5	6.9
8H	5.6	5.9	6.0	6.3	6.7	5.7	6.0	6.2	6.5	6.9
12H	5.5	5.8	6.0	6.2	6.7	5.7	5.9	6.1	6.4	6.8
12H 4H	5.7	6.1	6.1	6.4	6.8	5.8	6.2	6.2	6.6	7.0
6H	5.6	5.9	6.0	6.3	6.7	5.7	6.0	6.2	6.5	6.9
8H	5.5	5.8	6.0	6.2	6.7	5.7	5.9	6.1	6.4	6.8
Variations with the observer position at spacings:										
S = 1.0H	+ 4.3 / -16.0					+ 3.8 / -13.6				
1.5H	+ 6.7 / - 9.9					+ 6.1 / - 8.4				
2.0H	+ 5.4 / -13.6					+ 5.4 / -11.7				

CIE Pub.117 Corrected 1233 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

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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) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	89	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	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):

1225.3 lm

%lum = 99.4%

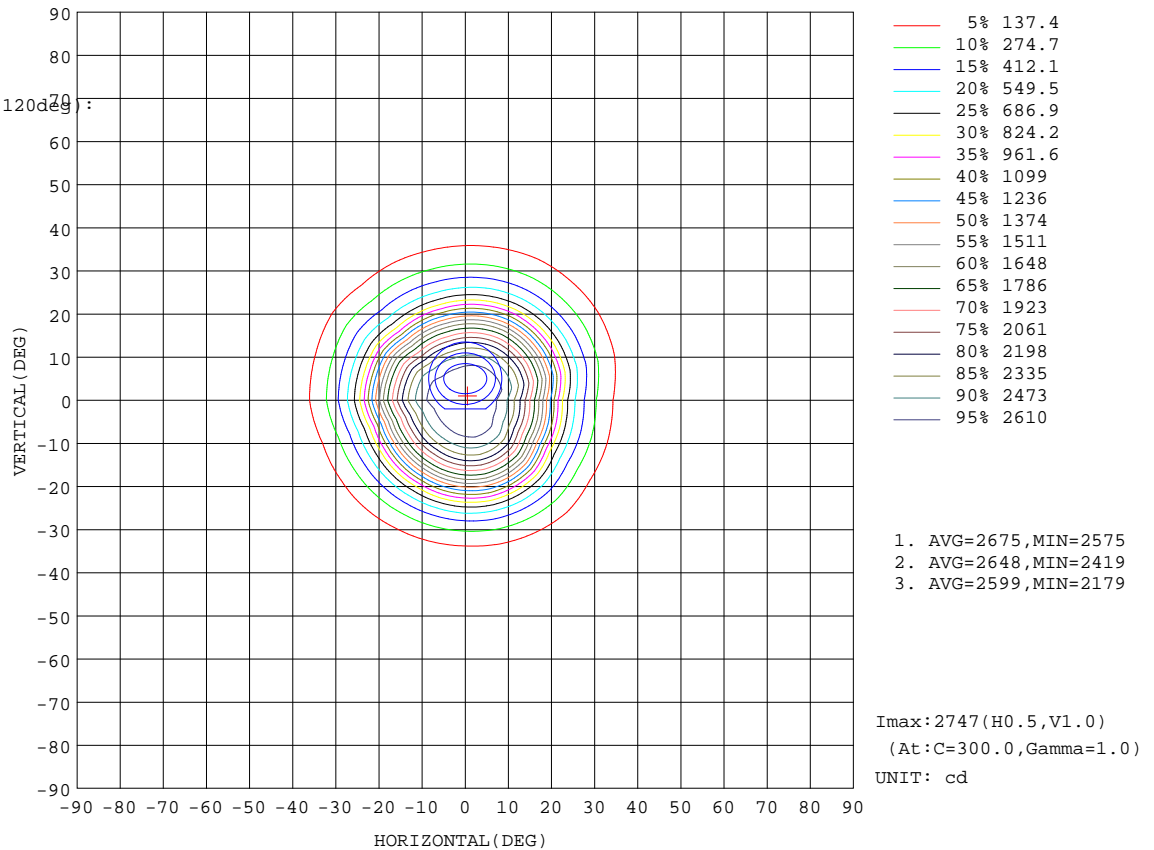
%lamp = 99.4%

Conical surface Flux(120deg):

1232.6 lm

%lum = 100.0%

%lamp = 100.0%

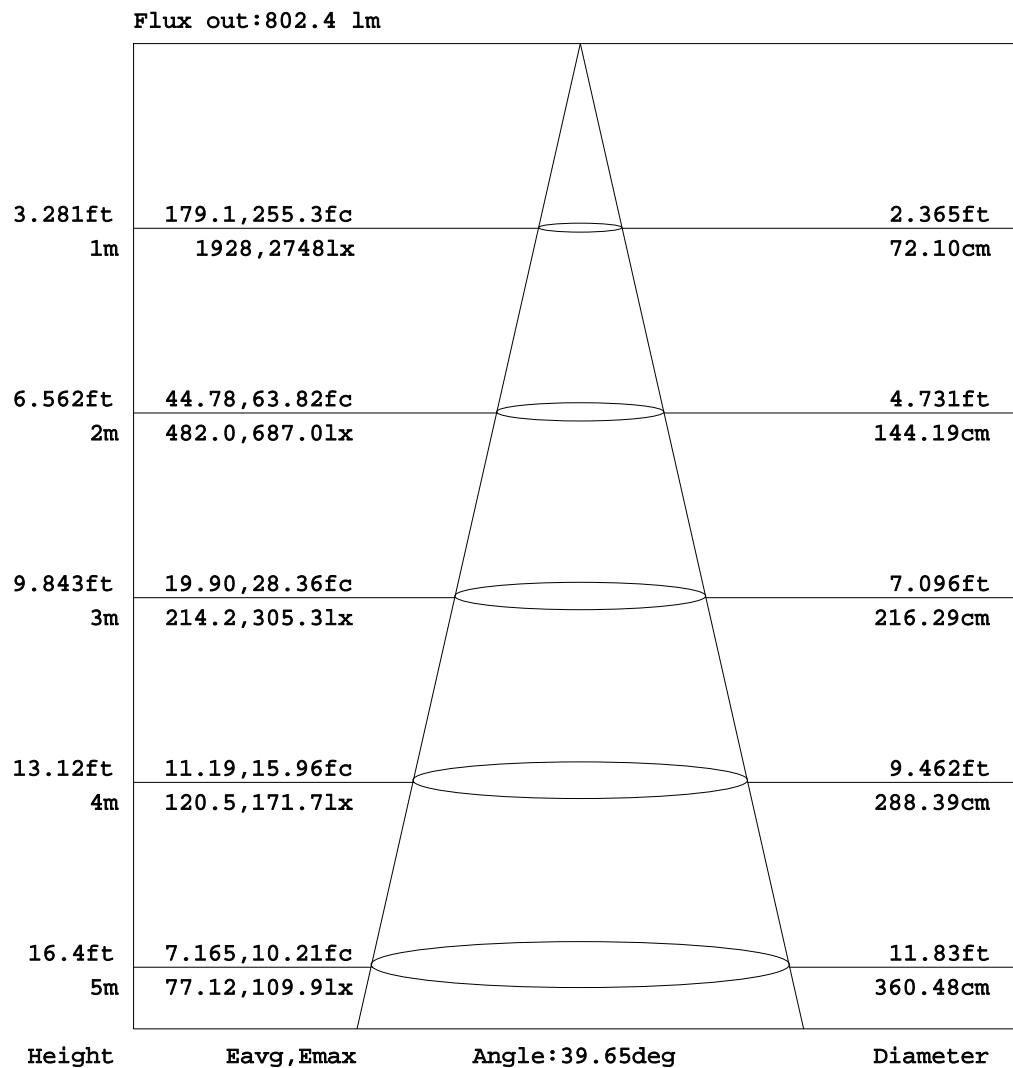


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AAI Figure

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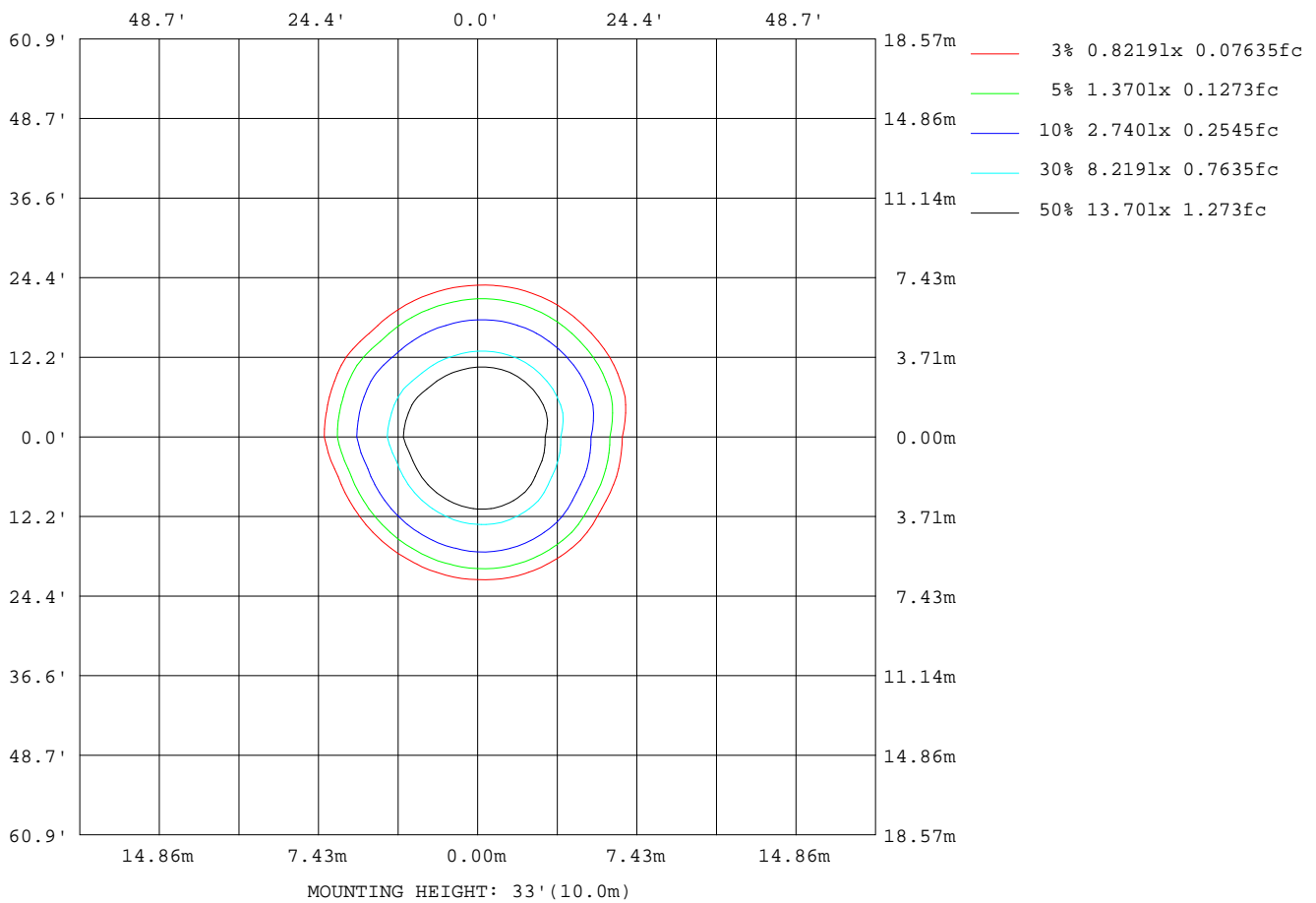
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

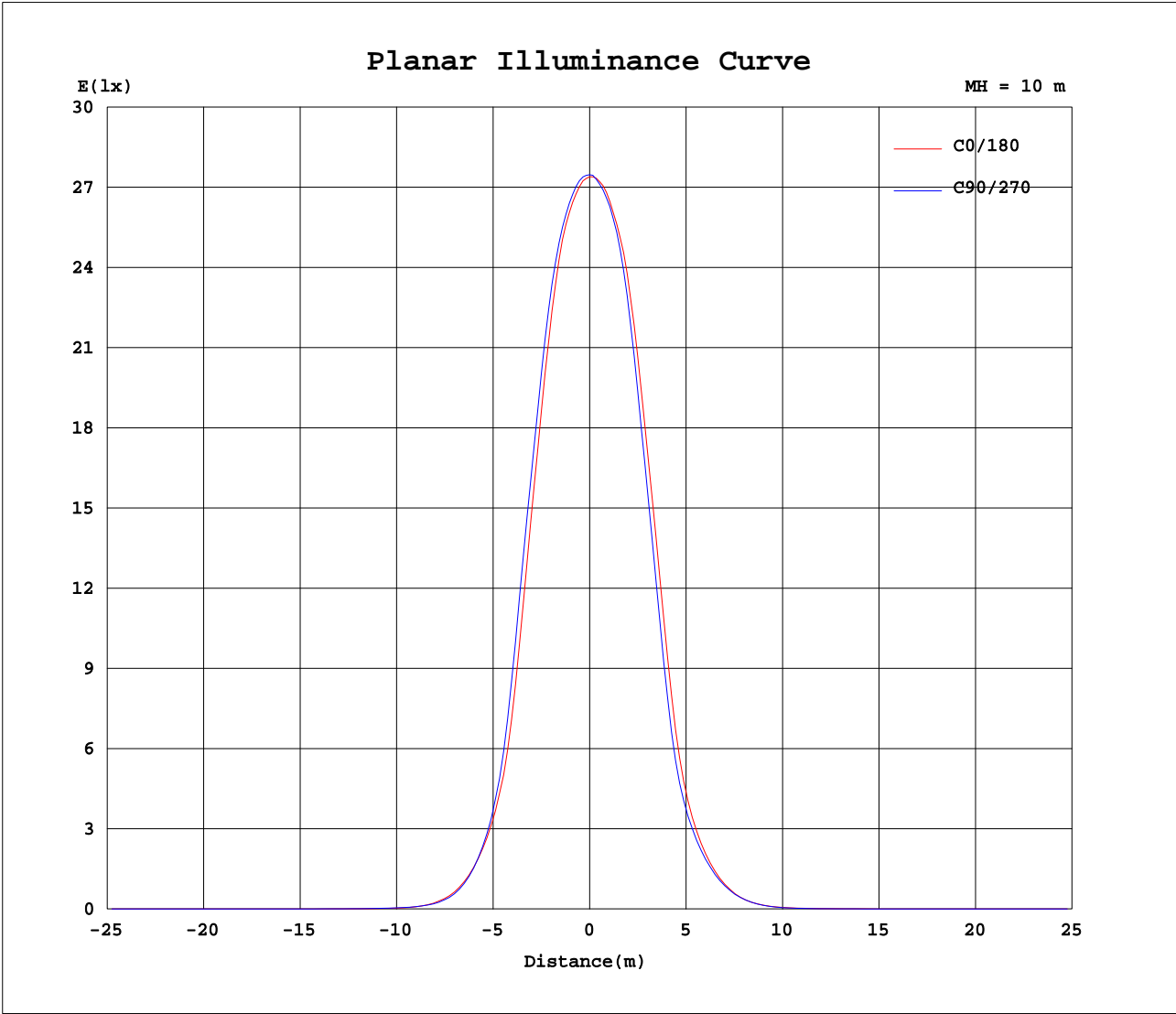
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Planar Illuminance Curve



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UNIT: cd

[illegible]

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Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-17

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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:

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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	2740	2741	2743	2748	2747	2748	2747	2746	2745	2744
3.0	2713	2717	2721	2737	2739	2738	2736	2731	2723	2722
6.0	2648	2654	2656	2686	2692	2688	2684	2676	2664	2658
9.0	2521	2541	2548	2596	2603	2604	2587	2567	2544	2535
12.0	2269	2297	2308	2406	2425	2423	2398	2358	2324	2308
15.0	1916	1946	1961	2096	2116	2118	2079	2034	1990	1973
18.0	1503	1547	1563	1712	1739	1738	1701	1647	1592	1570
21.0	1034	1067	1080	1249	1281	1281	1231	1173	1112	1094
24.0	658.6	677.0	682.6	790.7	811.5	814.7	775.2	731.6	692.8	686.0
27.0	445.1	450.8	448.3	501.4	508.4	502.7	479.1	453.9	435.6	433.8
30.0	290.8	292.0	285.1	318.6	317.8	310.4	293.8	277.0	265.0	266.8
33.0	173.8	171.5	164.9	184.4	181.0	174.3	163.1	154.1	148.9	152.9
36.0	93.76	91.91	86.33	96.85	93.99	88.41	82.29	79.16	78.83	81.25
39.0	45.97	45.89	44.02	49.08	47.69	44.64	41.59	40.73	41.56	43.20
42.0	21.11	22.42	23.59	26.51	26.10	24.14	22.00	22.21	23.46	24.39
45.0	10.55	11.97	13.62	16.07	15.58	13.84	12.49	13.04	14.16	14.84
48.0	6.303	6.889	8.354	10.51	9.871	8.363	7.469	8.048	8.994	9.684
51.0	4.312	4.464	5.180	6.801	6.240	5.213	4.976	4.986	5.851	6.488
54.0	2.477	2.740	3.314	4.219	3.932	3.564	3.256	3.428	3.778	4.237
57.0	1.198	1.412	1.929	2.690	2.535	1.997	1.739	1.943	2.473	2.806
60.0	0.4197	0.5492	0.9190	1.486	1.318	0.9269	0.7592	0.9249	1.342	1.689
63.0	0.2013	0.1726	0.3277	0.6541	0.5666	0.2746	0.2460	0.3032	0.5971	0.8112
66.0	0.1685	0.1442	0.1510	0.2093	0.1736	0.1705	0.2122	0.2054	0.2391	0.3033
69.0	0.1183	0.1046	0.1182	0.1027	0.1487	0.1354	0.1598	0.1528	0.1926	0.1792
72.0	0.0634	0.0568	0.0616	0.0677	0.1053	0.0503	0.0635	0.0590	0.1184	0.1135
75.0	0.0612	0.0568	0.0547	0.0481	0.0503	0.0503	0.0612	0.0590	0.0612	0.0590
78.0	0.0612	0.0568	0.0525	0.0481	0.0503	0.0503	0.0612	0.0590	0.0590	0.0590
81.0	0.0612	0.0568	0.0525	0.0503	0.0503	0.0503	0.0590	0.0590	0.0569	0.0612
84.0	0.0590	0.0568	0.0525	0.0525	0.0503	0.0503	0.0590	0.0590	0.0568	0.0634
87.0	0.0590	0.0590	0.0525	0.0525	0.0503	0.0503	0.0590	0.0590	0.0568	0.0634
90.0	0.0590	0.0590	0.0525	0.0525	0.0503	0.0503	0.0590	0.0590	0.0568	0.0634

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2744	2743	2740	2741	2743	2748	2747	2746	2745	2744
3.0	2719	2720	2732	2734	2733	2723	2720	2724	2722	2730
6.0	2654	2658	2691	2687	2687	2665	2661	2659	2671	2677
9.0	2534	2545	2607	2602	2599	2554	2548	2545	2561	2585
12.0	2299	2319	2443	2428	2416	2322	2310	2305	2338	2373
15.0	1958	1982	2154	2122	2112	1979	1967	1957	1998	2044
18.0	1558	1585	1785	1750	1734	1582	1569	1565	1604	1655
21.0	1082	1111	1341	1295	1282	1110	1096	1094	1139	1193
24.0	682.7	708.5	881.3	849.5	833.9	708.5	698.0	697.1	730.0	768.1
27.0	440.5	465.3	573.0	557.4	552.0	481.5	477.5	474.7	491.7	512.4
30.0	275.8	297.7	380.2	377.5	376.3	327.1	326.4	327.0	339.3	350.7
33.0	160.6	177.6	240.9	240.9	243.0	207.0	208.1	211.4	220.9	230.3
36.0	86.20	96.14	140.5	140.1	145.7	120.8	125.9	125.8	133.3	139.6
39.0	45.80	49.90	71.79	74.48	77.53	66.41	67.69	69.44	71.56	78.09
42.0	25.41	25.89	35.02	36.65	39.69	33.59	34.64	32.46	33.47	38.08
45.0	14.77	13.82	17.50	18.17	21.05	18.26	17.94	15.39	15.24	17.86
48.0	9.097	7.991	9.253	9.973	11.90	11.04	10.22	8.435	7.849	9.230
51.0	5.831	4.954	5.738	6.031	7.255	6.981	6.174	5.120	5.103	5.436
54.0	3.760	3.385	4.034	4.080	4.604	4.386	3.902	3.403	3.267	3.652
57.0	2.436	1.875	2.249	2.392	2.994	2.822	2.472	1.801	1.684	1.994
60.0	1.285	0.8680	1.094	1.198	1.666	1.570	1.267	0.7935	0.6991	0.8703
63.0	0.5622	0.2793	0.3614	0.4392	0.7495	0.7192	0.5314	0.2395	0.1813	0.2485
66.0	0.2324	0.2011	0.2033	0.2187	0.2507	0.2851	0.1748	0.1837	0.1573	0.1706
69.0	0.1881	0.1659	0.1770	0.1946	0.1638	0.1750	0.1441	0.1488	0.1200	0.1400
72.0	0.1227	0.0699	0.1110	0.1337	0.1265	0.1292	0.0892	0.0638	0.0437	0.0529
75.0	0.0590	0.0700	0.0634	0.0700	0.0503	0.0570	0.0481	0.0568	0.0437	0.0481
78.0	0.0590	0.0700	0.0634	0.0700	0.0503	0.0547	0.0481	0.0568	0.0437	0.0481
81.0	0.0590	0.0700	0.0612	0.0700	0.0503	0.0525	0.0481	0.0525	0.0437	0.0481
84.0	0.0590	0.0700	0.0568	0.0678	0.0503	0.0525	0.0481	0.0503	0.0437	0.0481
87.0	0.0590	0.0700	0.0568	0.0656	0.0503	0.0525	0.0481	0.0503	0.0437	0.0437
90.0	0.0634	0.0700	0.0568	0.0590	0.0503	0.0525	0.0481	0.0437	0.0437	0.0415

G/C	300.0	315.0	330.0	345.0
0.0	2745	2744	2744	2743
3.0	2735	2736	2735	2737
6.0	2690	2691	2692	2688
9.0	2601	2606	2609	2604
12.0	2408	2418	2427	2406
15.0	2086	2105	2122	2097
18.0	1701	1721	1733	1713
21.0	1246	1270	1286	1259

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-07-17

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	809.5	829.7	845.6	820.5
27.0	531.0	540.0	549.1	539.0
30.0	363.4	366.1	373.3	364.9
33.0	236.3	237.6	241.9	232.6
36.0	146.5	143.2	147.0	136.4
39.0	82.48	81.49	81.28	73.47
42.0	43.83	43.72	42.76	35.04
45.0	22.27	23.25	21.63	16.37
48.0	11.99	13.07	11.62	8.817
51.0	6.922	7.922	6.796	5.331
54.0	4.232	4.818	4.244	3.584
57.0	2.700	3.047	2.717	1.993
60.0	1.448	1.761	1.472	0.8943
63.0	0.5923	0.8202	0.6141	0.2595
66.0	0.1550	0.2942	0.1615	0.1685
69.0	0.1201	0.1379	0.1136	0.1444
72.0	0.0806	0.1094	0.0806	0.0638
75.0	0.0415	0.0549	0.0481	0.0568
78.0	0.0415	0.0503	0.0481	0.0568
81.0	0.0415	0.0503	0.0481	0.0547
84.0	0.0415	0.0503	0.0481	0.0503
87.0	0.0415	0.0503	0.0481	0.0503
90.0	0.0415	0.0481	0.0481	0.0437

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-07-17

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: