
LED Downlight SENSE Series LE-
S100R1-13W-930-N



Light Output Ratio:	100.0%	
Luminaire Power:	14.35 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: Meng Yongjian
Test Date: 2017-06-16

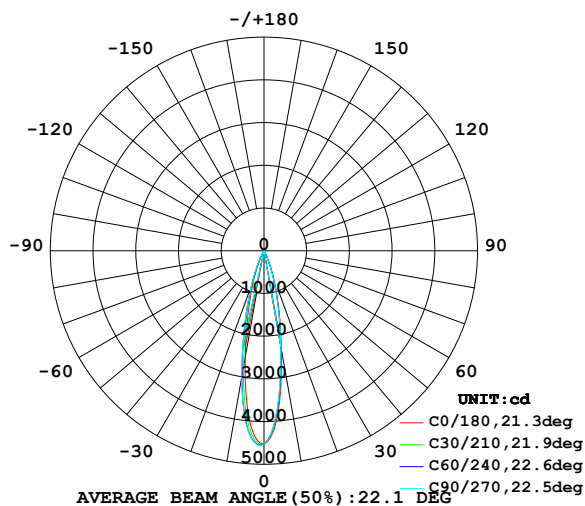
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

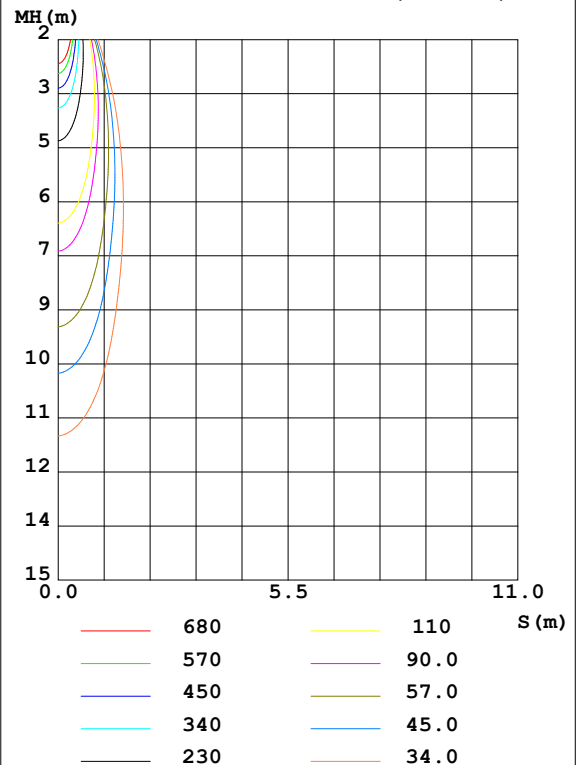
Test:U:220.7V I:0.0708A P:14.35W PF:0.9184 Lamp Flux:864.319x1 lm		
NAME: S100R1-13W-930-N	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 108mm*H126mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.23 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	4559	S/MH (C0/180)	0.37
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.43
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	864.32	η UP, DN (C0-180)	0.0, 45.0
NOMINAL FLUX (lm)	864.319	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 55.0
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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



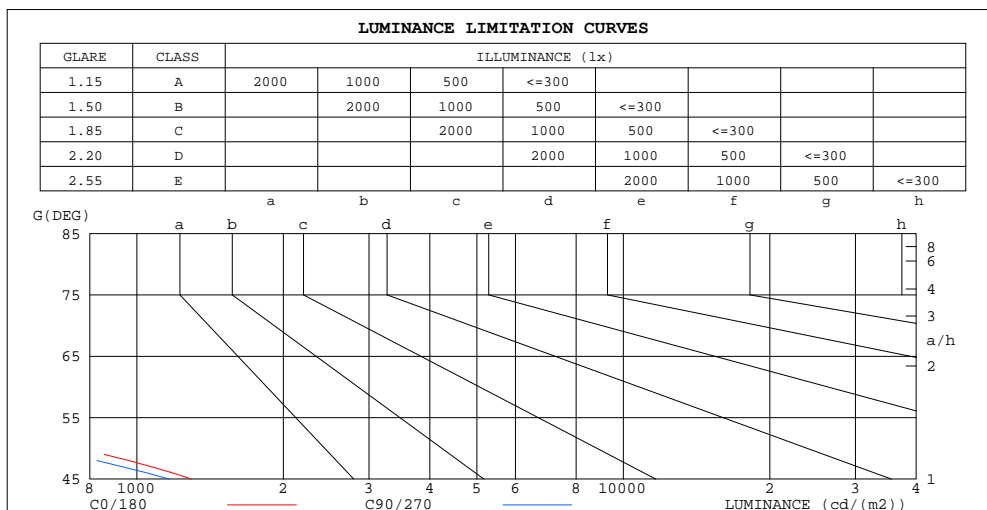
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 Remarks:

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	2352	2316	2267	2276	2536	2856	3006	2690	0- 10	327.9	327.9	37.9,37.9
20	606.3	576.5	559.2	552.4	657.1	793.1	856.2	717.0	10- 20	387.1	715.1	82.7,82.7
30	57.58	54.98	57.27	49.60	58.38	85.18	98.38	72.46	20- 30	122.5	837.5	96.9,96.9
40	14.21	13.59	13.16	13.20	13.54	14.76	15.79	14.85	30- 40	18.09	855.6	99.9,99
50	4.484	4.138	3.755	3.841	4.021	4.220	4.627	4.753	40- 50	6.449	862.1	99.7,99.7
60	0.7677	0.6476	0.5135	0.5559	0.6731	0.6773	0.7978	0.9094	50- 60	1.979	864.1	100,100
70	0.0656	0.0459	0.0875	0.0633	0.0436	0.0656	0.0480	0.0569	60- 70	0.1779	864.2	100,100
80	0.0437	0.0459	0.0547	0.0437	0.0306	0.0328	0.0306	0.0328	70- 80	0.0455	864.3	100,100
90	0.0415	0.0459	0.0481	0.0459	0.0306	0.0306	0.0306	0.0306	80- 90	0.0416	864.3	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(°)	C0/180	C90/270
85	52	63
80	28	34
75	20	24
70	21	28
65	19	27
60	168	112
55	447	349
50	762	638
45	1297	1165

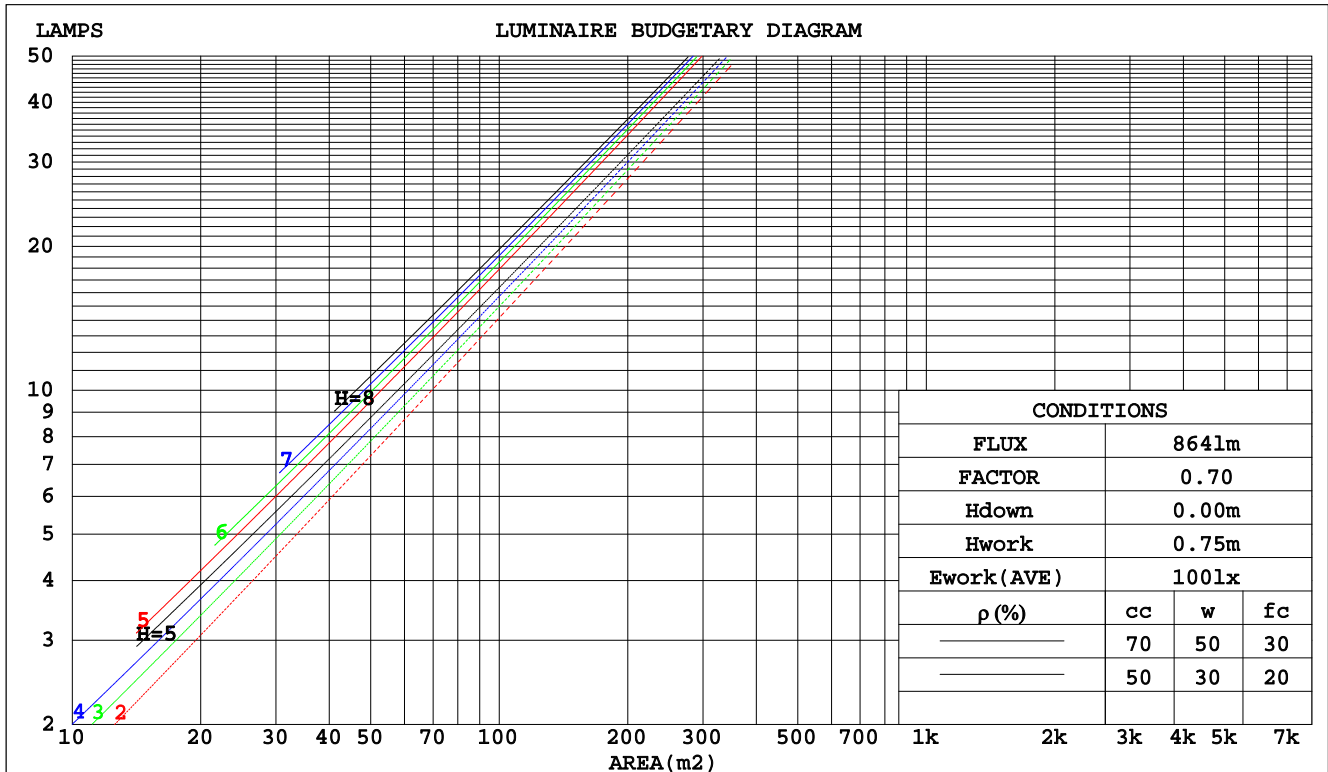
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0708A P:14.35W PF:0.9184 Lamp Flux:864.319x1 lm		
NAME: S100R1-13W-930-N	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 108mm*H126mm	
MFR.:		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.01	.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.06	1.04	1.02	1.03	1.01	.99	1.00	.99	.97	.98	.96	.95	.94
3.0	1.04	1.00	.97	1.02	.99	.97	.00	.97	.95	.98	.96	.94	.96	.94	.92	.91
4.0	.00	.96	.93	.99	.95	.93	.97	.94	.92	.95	.93	.91	.93	.91	.90	.88
5.0	.96	.92	.90	.96	.92	.89	.94	.91	.88	.92	.90	.88	.91	.89	.87	.86
6.0	.93	.89	.86	.93	.89	.86	.91	.88	.86	.90	.87	.85	.89	.86	.85	.84
7.0	.90	.86	.84	.90	.86	.83	.89	.85	.83	.88	.85	.83	.87	.84	.82	.81
8.0	.88	.84	.81	.87	.84	.81	.86	.83	.81	.86	.83	.80	.85	.82	.80	.79
9.0	.85	.82	.79	.85	.81	.79	.84	.81	.79	.84	.81	.78	.83	.80	.78	.77
10.0	.83	.79	.77	.83	.79	.77	.82	.79	.77	.82	.79	.76	.81	.78	.76	.75



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WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.133	.076	.024	.126	.072	.023	.114	.065	.021	.103	.059	.019	.092	.053	.017		
2.0	.123	.067	.021	.117	.065	.020	.107	.060	.019	.098	.055	.017	.089	.050	.016		
3.0	.114	.061	.018	.110	.059	.018	.101	.055	.017	.093	.051	.016	.086	.048	.015		
4.0	.107	.056	.016	.103	.054	.016	.096	.051	.015	.089	.048	.014	.083	.045	.014		
5.0	.101	.051	.015	.097	.050	.015	.091	.048	.014	.086	.045	.013	.080	.043	.013		
6.0	.095	.048	.014	.092	.047	.013	.087	.045	.013	.082	.043	.013	.078	.041	.012		
7.0	.090	.045	.013	.088	.044	.012	.083	.042	.012	.079	.041	.012	.075	.039	.011		
8.0	.086	.042	.012	.084	.041	.012	.080	.040	.011	.076	.039	.011	.073	.037	.011		
9.0	.082	.040	.011	.080	.039	.011	.077	.038	.011	.074	.037	.011	.071	.036	.010		
10.0	.079	.038	.010	.077	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010		

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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						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	.134	.113	.096	.115	.098	.084	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.122	.098	.080	.105	.085	.069	.072	.059	.049	.042	.035	.029	.013	.011	.009	
5.0	.111	.085	.066	.095	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.102	.075	.056	.088	.065	.049	.061	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.094	.067	.048	.081	.058	.042	.056	.041	.030	.033	.024	.018	.011	.008	.006	
8.0	.088	.060	.041	.076	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.082	.055	.036	.071	.047	.031	.049	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.077	.050	.032	.067	.043	.028	.046	.030	.020	.027	.018	.012	.009	.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:0.0708A P:14.35W PF:0.9184 Lamp Flux:864.319x1 lm										
NAME: S100R1-13W-930-N					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					DIM.: ϕ 108mm*H126mm					
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	0.5	1.1	0.7	1.3	1.4	0.2	0.9	0.4	1.0	1.2
3H	0.4	0.9	0.6	1.1	1.3	0.1	0.7	0.3	0.9	1.1
4H	0.3	0.8	0.5	1.0	1.2	0.0	0.6	0.3	0.8	1.0
6H	0.2	0.7	0.5	0.9	1.2	-0.1	0.5	0.2	0.7	0.9
8H	0.1	0.7	0.4	0.9	1.1	-0.1	0.4	0.2	0.7	0.9
12H	0.1	0.6	0.4	0.9	1.1	-0.1	0.3	0.2	0.6	0.9
4H 2H	0.3	0.9	0.6	1.1	1.3	0.1	0.6	0.3	0.8	1.0
3H	0.1	0.6	0.4	0.9	1.1	-0.1	0.4	0.2	0.6	0.9
4H	0.0	0.5	0.4	0.8	1.1	-0.2	0.2	0.1	0.5	0.8
6H	-0.1	0.3	0.3	0.7	1.0	-0.3	0.1	0.1	0.4	0.8
8H	-0.1	0.3	0.3	0.6	1.0	-0.4	0.0	0.0	0.4	0.7
12H	-0.2	0.2	0.2	0.5	0.9	-0.4	-0.1	-0.0	0.3	0.7
8H 4H	-0.1	0.2	0.3	0.6	1.0	-0.4	0.0	0.0	0.4	0.7
6H	-0.2	0.1	0.2	0.5	0.9	-0.5	-0.2	-0.1	0.2	0.6
8H	-0.3	-0.0	0.1	0.4	0.8	-0.5	-0.3	-0.1	0.2	0.6
12H	-0.4	-0.1	0.1	0.3	0.8	-0.6	-0.4	-0.1	0.1	0.6
12H 4H	-0.2	0.2	0.2	0.5	0.9	-0.4	-0.1	-0.0	0.3	0.7
6H	-0.3	-0.0	0.1	0.4	0.8	-0.5	-0.3	-0.1	0.2	0.6
8H	-0.4	-0.1	0.1	0.3	0.8	-0.6	-0.4	-0.1	0.1	0.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / - 7.8					+ 2.7 / - 9.1				
1.5H	+ 3.9 / - 5.4					+ 3.9 / - 5.7				
2.0H	+ 5.5 / -15.9					+ 5.5 / -14.4				

CIE Pub.117 Corrected 864.3 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.5)

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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	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	98	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	106	104	98
4.00	115	112	110	113	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):

859.64 lm

%lum = 99.5%

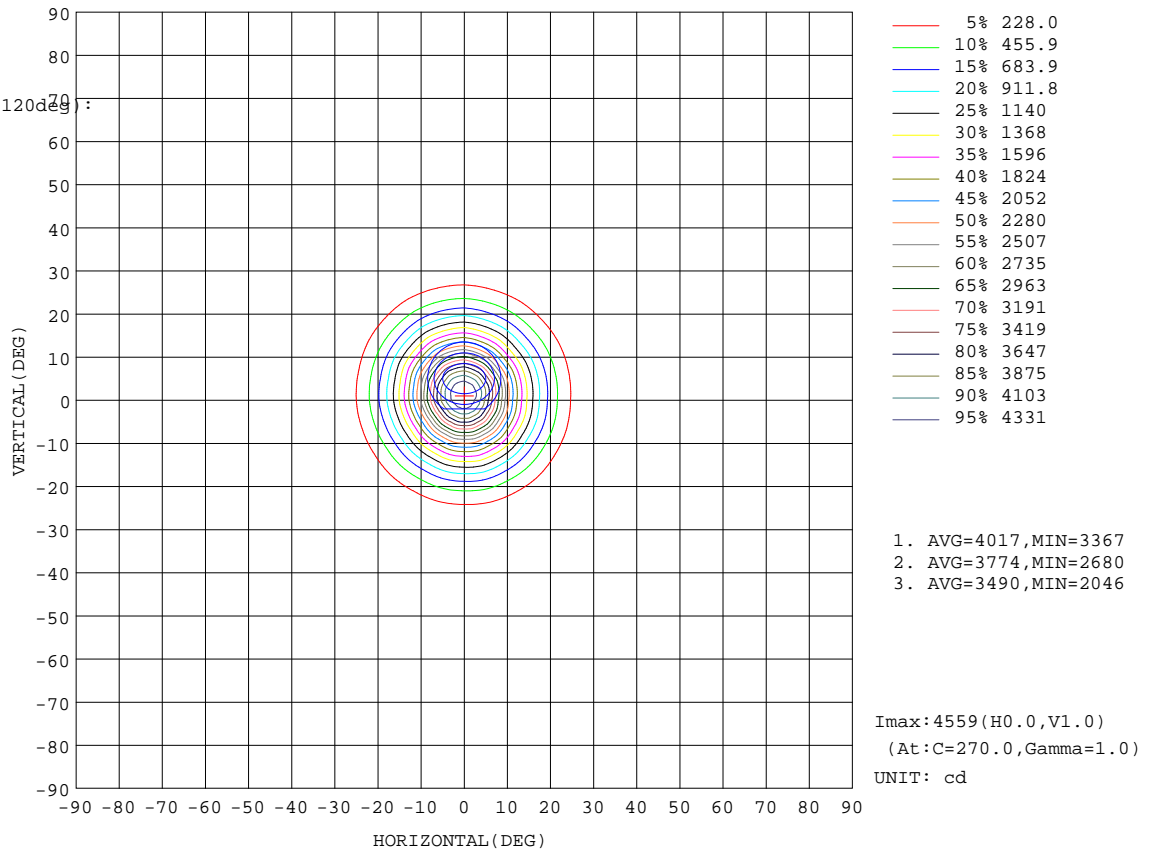
%lamp = 99.5%

Conical surface Flux(120deg):

864.05 lm

%lum = 100.0%

%lamp = 100.0%

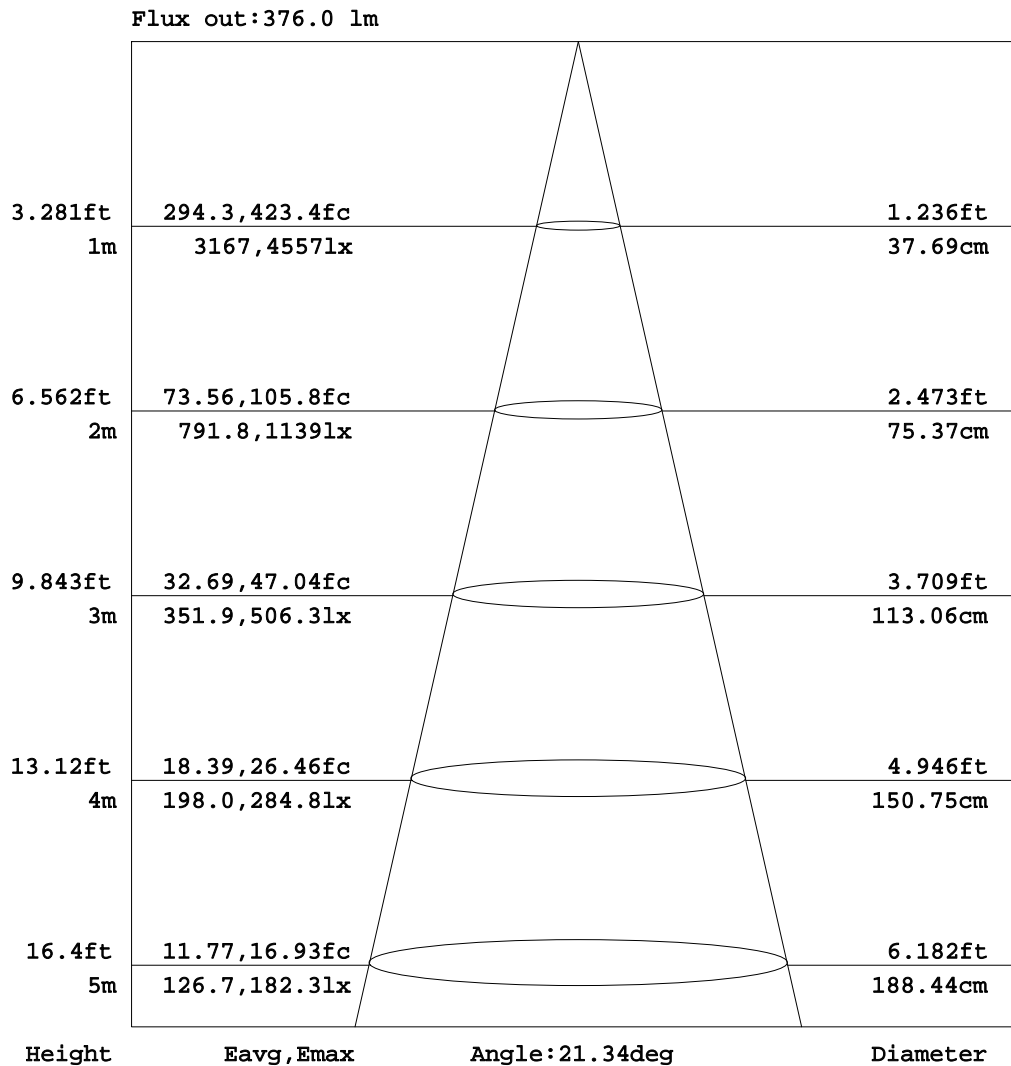


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AAI Figure

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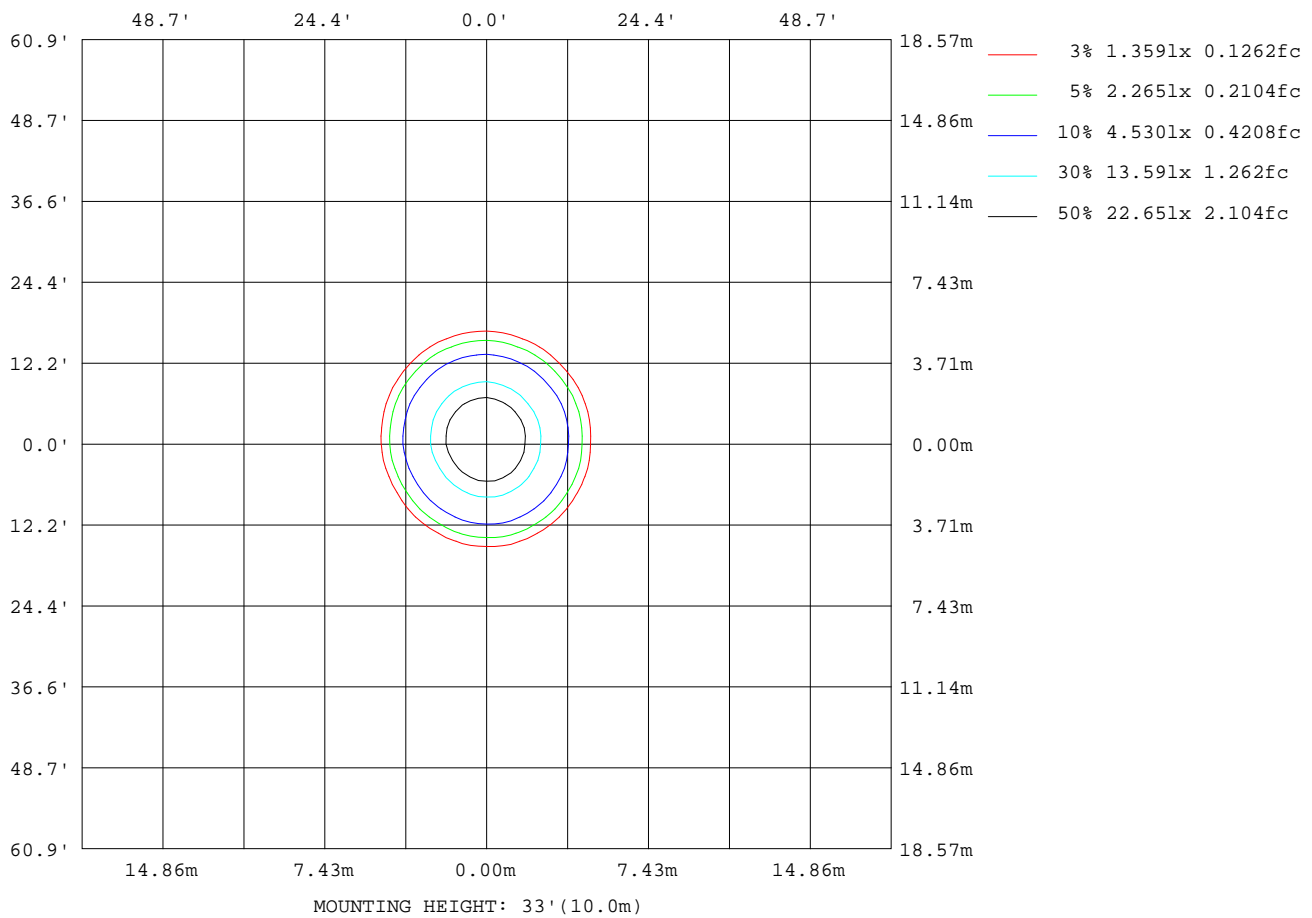
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

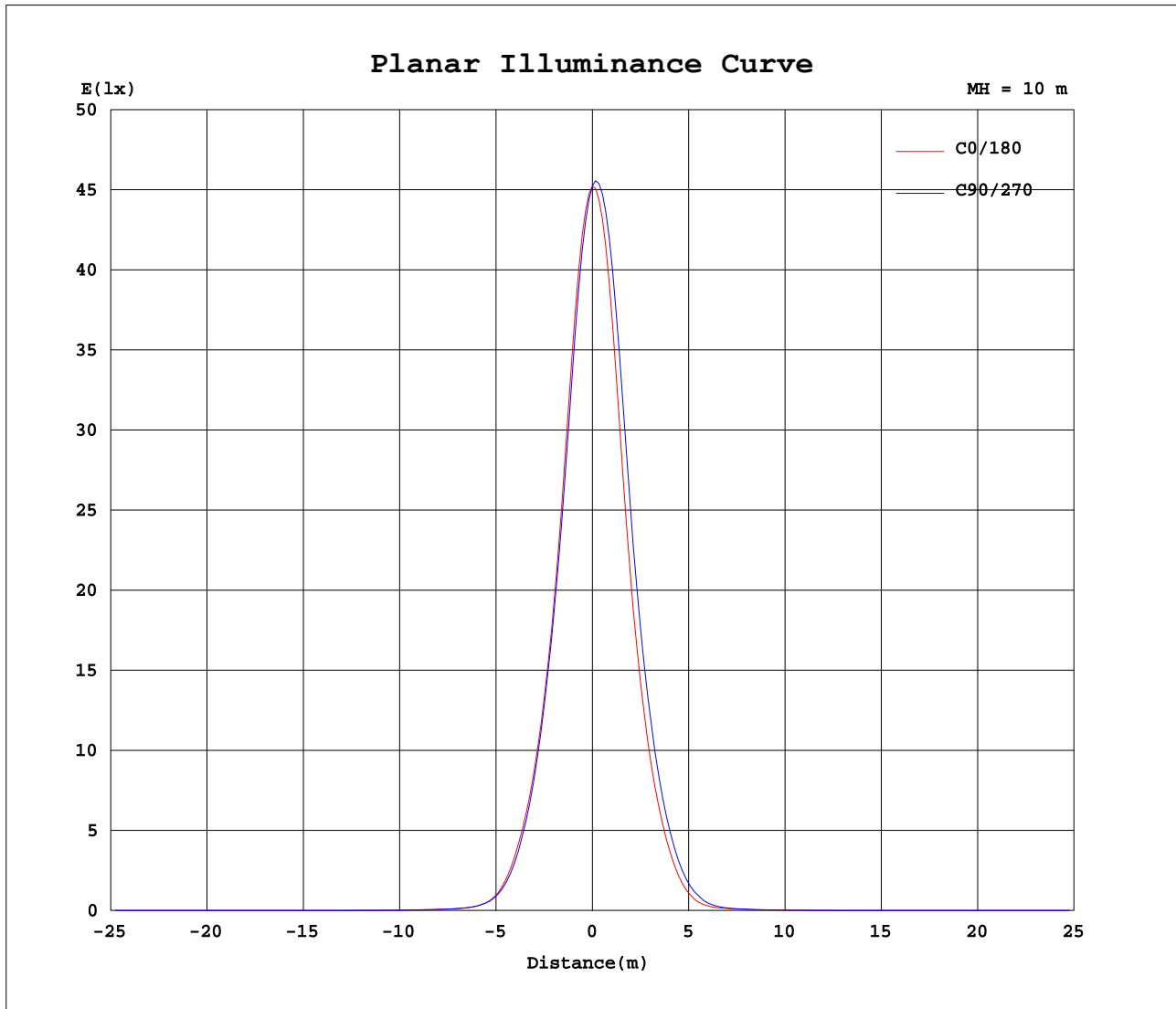
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Planar Illuminance Curve



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UNIT: cd

[illegible]

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MFR.:		

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-16

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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:

```

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	4522	4524	4521	4527	4522	4529	4524	4532	4527	4533
3.0	4233	4221	4178	4180	4148	4162	4139	4162	4153	4194
6.0	3524	3505	3441	3452	3407	3426	3386	3416	3395	3453
9.0	2632	2622	2566	2588	2542	2569	2526	2550	2506	2553
12.0	1865	1858	1820	1848	1819	1842	1805	1811	1772	1796
15.0	1278	1282	1239	1266	1241	1268	1228	1227	1192	1212
18.0	834.4	828.1	799.5	807.5	793.8	807.0	781.9	782.5	759.0	776.3
21.0	511.6	499.4	482.4	479.2	465.6	474.1	456.9	457.0	442.4	456.7
24.0	266.4	261.6	247.8	251.0	242.8	246.8	237.3	236.9	226.7	234.6
27.0	119.6	122.9	113.6	115.7	113.7	120.9	112.9	111.5	104.0	104.5
30.0	57.58	55.30	55.74	54.98	56.84	56.71	57.27	54.13	50.51	49.60
33.0	31.17	31.08	30.18	30.42	30.66	31.36	30.40	29.80	28.29	28.02
36.0	21.72	21.53	20.86	20.75	20.34	20.54	20.32	20.44	20.07	20.19
39.0	15.85	15.72	15.26	15.13	14.73	14.76	14.68	14.83	14.65	14.72
42.0	11.53	11.49	11.18	11.04	10.74	10.76	10.62	10.71	10.57	10.60
45.0	8.398	8.373	8.105	8.017	7.722	7.696	7.545	7.595	7.447	7.499
48.0	5.899	5.855	5.618	5.506	5.202	5.202	5.074	5.121	5.028	5.069
51.0	3.871	3.850	3.648	3.551	3.372	3.320	3.264	3.346	3.342	3.362
54.0	2.756	2.717	2.558	2.470	2.289	2.258	2.200	2.275	2.281	2.358
57.0	1.611	1.569	1.445	1.382	1.267	1.235	1.184	1.231	1.234	1.314
60.0	0.7677	0.7459	0.6821	0.6476	0.5705	0.5495	0.5135	0.5298	0.5137	0.5559
63.0	0.2227	0.2044	0.1765	0.1544	0.1434	0.1328	0.1323	0.1265	0.1236	0.1112
66.0	0.0722	0.0481	0.0721	0.0546	0.0831	0.0721	0.1028	0.0853	0.0962	0.0743
69.0	0.0699	0.0415	0.0634	0.0459	0.0765	0.0634	0.0962	0.0765	0.0875	0.0677
72.0	0.0613	0.0372	0.0569	0.0459	0.0613	0.0481	0.0723	0.0524	0.0679	0.0437
75.0	0.0481	0.0372	0.0481	0.0459	0.0547	0.0459	0.0569	0.0437	0.0525	0.0437
78.0	0.0438	0.0372	0.0481	0.0459	0.0525	0.0459	0.0547	0.0437	0.0503	0.0437
81.0	0.0437	0.0372	0.0459	0.0459	0.0503	0.0459	0.0525	0.0437	0.0481	0.0437
84.0	0.0415	0.0372	0.0459	0.0459	0.0503	0.0459	0.0503	0.0437	0.0459	0.0437
87.0	0.0415	0.0415	0.0459	0.0459	0.0481	0.0481	0.0481	0.0459	0.0459	0.0459
90.0	0.0415	0.0415	0.0459	0.0459	0.0481	0.0481	0.0481	0.0481	0.0459	0.0459

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4530	4533	4522	4524	4521	4527	4522	4529	4524	4532
3.0	4207	4268	4332	4361	4415	4440	4476	4482	4490	4466
6.0	3471	3583	3717	3780	3899	3955	4040	4046	4061	3994
9.0	2563	2676	2827	2912	3071	3151	3269	3279	3296	3200
12.0	1798	1882	2008	2084	2224	2304	2415	2422	2435	2339
15.0	1213	1286	1385	1439	1558	1618	1707	1707	1722	1639
18.0	779.2	826.6	900.7	945.6	1035	1078	1146	1148	1158	1094
21.0	462.2	498.3	550.5	581.6	641.7	670.9	720.4	722.1	728.4	685.2
24.0	235.9	258.5	294.0	314.8	356.9	377.8	412.3	412.9	417.8	388.9
27.0	103.8	111.9	138.0	146.4	172.0	187.3	209.0	210.4	212.8	195.2
30.0	47.84	51.25	58.38	64.94	77.06	85.18	95.52	97.59	98.38	88.77
33.0	27.59	28.40	30.53	32.60	36.74	39.91	43.97	44.53	45.40	41.52
36.0	19.97	20.41	21.34	21.80	23.07	23.92	25.37	25.61	25.86	24.52
39.0	14.39	14.64	15.20	15.44	16.22	16.65	17.43	17.59	17.80	17.23
42.0	10.35	10.46	10.84	10.99	11.48	11.68	12.21	12.32	12.58	12.28
45.0	7.328	7.460	7.739	7.803	8.132	8.267	8.626	8.752	8.951	8.722
48.0	4.951	5.056	5.314	5.371	5.593	5.673	5.894	5.919	6.132	6.104
51.0	3.316	3.347	3.474	3.491	3.608	3.603	3.745	3.775	3.983	4.046
54.0	2.331	2.391	2.508	2.509	2.576	2.552	2.603	2.611	2.712	2.790
57.0	1.313	1.371	1.436	1.433	1.484	1.481	1.538	1.546	1.649	1.689
60.0	0.5707	0.6104	0.6731	0.6619	0.6907	0.6773	0.7213	0.7320	0.7978	0.8217
63.0	0.1193	0.1176	0.1432	0.1587	0.1736	0.1892	0.2107	0.2286	0.2587	0.2660
66.0	0.0940	0.0656	0.0590	0.0722	0.0481	0.0700	0.0525	0.0744	0.0590	0.0701
69.0	0.0875	0.0590	0.0481	0.0656	0.0437	0.0700	0.0481	0.0700	0.0524	0.0678
72.0	0.0570	0.0437	0.0284	0.0438	0.0306	0.0482	0.0284	0.0569	0.0349	0.0569
75.0	0.0524	0.0437	0.0284	0.0350	0.0306	0.0350	0.0241	0.0372	0.0306	0.0372
78.0	0.0459	0.0437	0.0284	0.0328	0.0306	0.0328	0.0241	0.0328	0.0306	0.0350
81.0	0.0459	0.0437	0.0306	0.0328	0.0306	0.0328	0.0241	0.0328	0.0306	0.0306
84.0	0.0437	0.0437	0.0306	0.0306	0.0306	0.0306	0.0241	0.0328	0.0306	0.0306
87.0	0.0437	0.0437	0.0306	0.0306	0.0306	0.0306	0.0241	0.0328	0.0306	0.0306
90.0	0.0437	0.0437	0.0306	0.0306	0.0306	0.0306	0.0241	0.0306	0.0306	0.0306

G/C	300.0	315.0	330.0	345.0
0.0	4527	4533	4530	4533
3.0	4449	4402	4372	4313
6.0	3954	3846	3781	3661
9.0	3136	2990	2912	2769
12.0	2272	2139	2073	1964
15.0	1585	1476	1427	1347
18.0	1054	975.0	941.1	887.1
21.0	658.5	607.1	587.8	551.5

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-06-16

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	370.5	336.7	322.4	292.5
27.0	183.9	161.9	155.6	133.3
30.0	82.27	72.46	67.53	61.52
33.0	39.06	35.78	34.42	32.69
36.0	23.95	23.01	22.91	22.35
39.0	17.06	16.59	16.62	16.29
42.0	12.23	11.95	12.03	11.83
45.0	8.810	8.675	8.740	8.623
48.0	6.210	6.132	6.229	6.106
51.0	4.193	4.164	4.182	4.044
54.0	2.911	2.928	2.948	2.871
57.0	1.809	1.822	1.857	1.754
60.0	0.8894	0.9094	0.9438	0.8656
63.0	0.2956	0.2946	0.3065	0.2705
66.0	0.0525	0.0679	0.0437	0.0656
69.0	0.0481	0.0591	0.0393	0.0590
72.0	0.0328	0.0525	0.0328	0.0503
75.0	0.0306	0.0394	0.0306	0.0394
78.0	0.0306	0.0328	0.0306	0.0350
81.0	0.0306	0.0328	0.0306	0.0350
84.0	0.0306	0.0328	0.0306	0.0350
87.0	0.0306	0.0328	0.0306	0.0328
90.0	0.0306	0.0306	0.0306	0.0328

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-06-16

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: