
LED Downlight SENSE Series LE-
S125R1-18W-940-M



Light Output Ratio:	100.0%	
Luminaire Power:	19.32 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-18

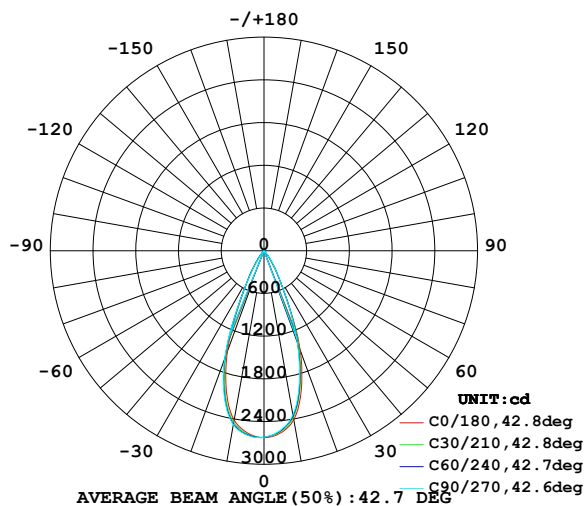
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

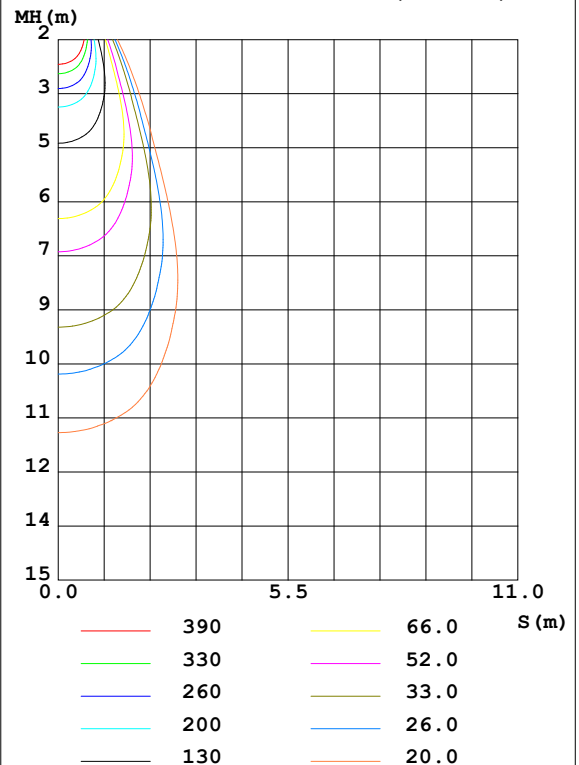
Test:U:220.7V I:0.0930A P:19.32W PF:0.9414 Lamp Flux:1315.15x1 lm		
NAME: S125R1-18W-940-M	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 135mm*H157mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.09 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	2627	S/MH (C0/180)	0.65
NOMINAL POWER (W)	21	LOR (%)	100.0	S/MH (C90/270)	0.66
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1315.2	η UP, DN (C0-180)	0.0, 48.8
NOMINAL FLUX (lm)	1315.15	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.65

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



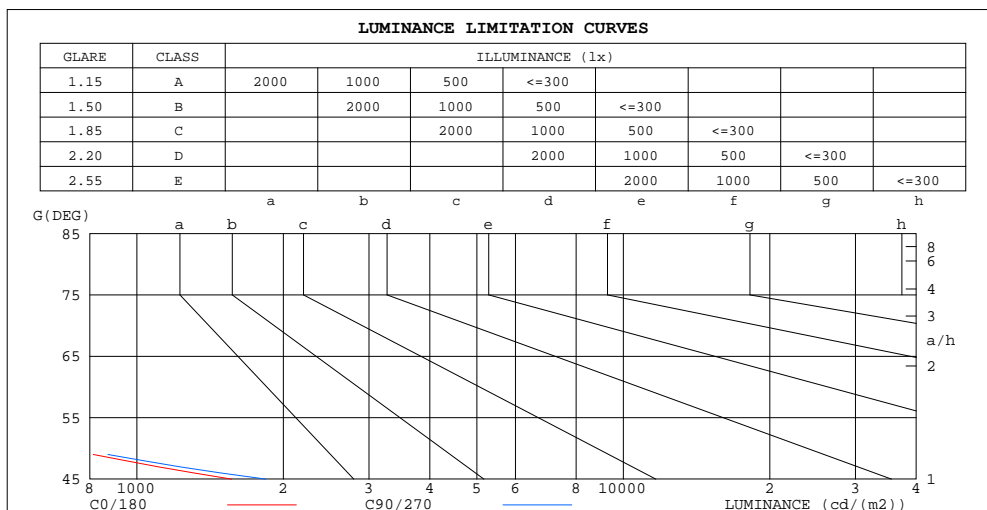
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γ Range: 0 - 90DEG
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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 Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	2411	2374	2342	2367	2416	2454	2482	2458	0- 10	240.7	240.7	18.3,18.3
20	1490	1421	1367	1417	1508	1571	1622	1560	10- 20	555.1	795.8	60.5,60.5
30	364.0	380.0	386.4	397.0	418.8	400.3	384.4	362.7	20- 30	381.8	1178	89.5,89.5
40	53.80	62.87	70.28	73.23	69.56	55.69	50.16	51.42	30- 40	116.3	1294	98.4,98.4
50	6.547	6.367	6.953	7.265	6.770	6.550	7.162	6.756	40- 50	17.21	1311	99.7,99.7
60	1.341	1.178	1.484	1.609	1.246	1.253	1.354	1.459	50- 60	3.209	1314	99.9,99.9
70	0.2801	0.1746	0.2700	0.3843	0.2230	0.2844	0.2315	0.3631	60- 70	0.5667	1315	100,100
80	0.1006	0.0700	0.0787	0.0984	0.1355	0.1421	0.1093	0.1137	70- 80	0.1470	1315	100,100
90	0.0809	0.0743	0.0678	0.0962	0.0853	0.1006	0.0853	0.0743	80- 90	0.0984	1315	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	70	56
80	41	32
75	33	22
70	57	55
65	66	89
60	188	207
55	414	438
50	712	756
45	1566	1841

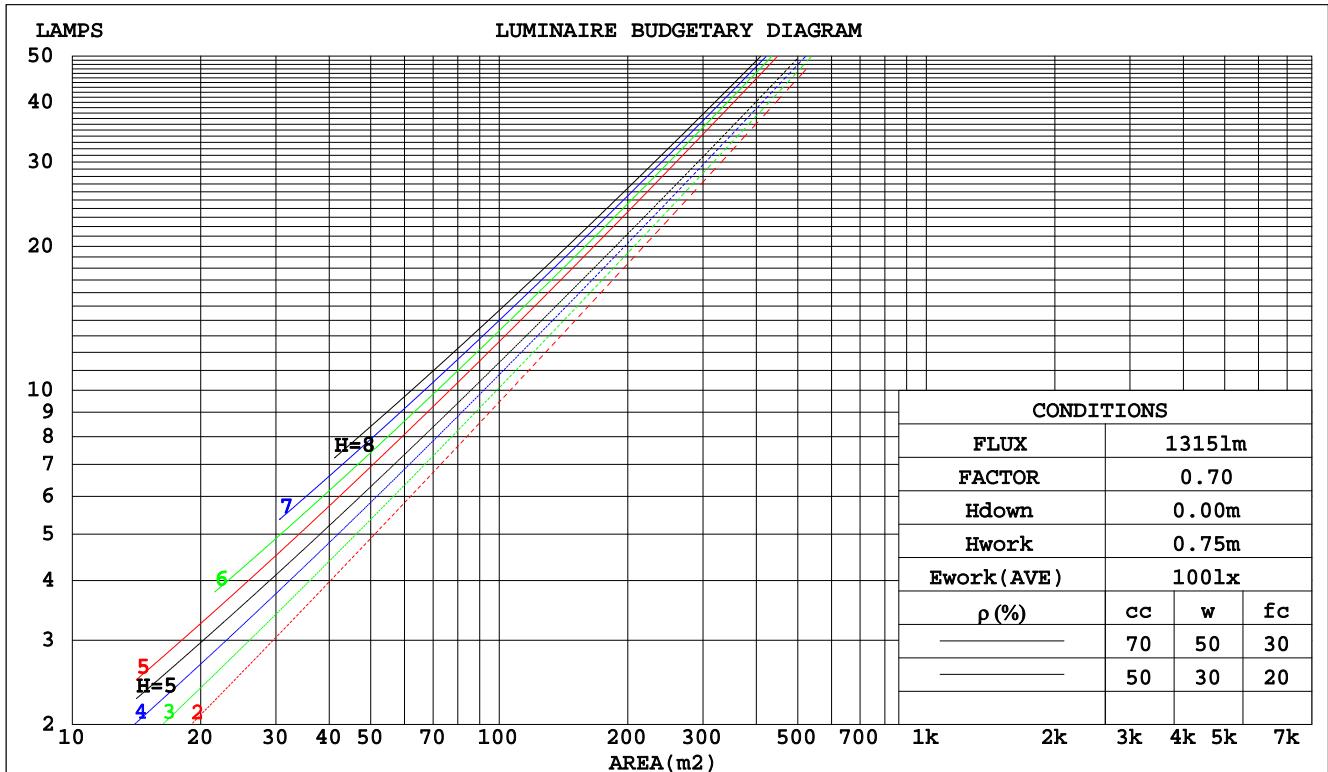
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 Humidity: 52%
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0930A P:19.32W PF:0.9414 Lamp Flux:1315.15x1 lm		
NAME: S125R1-18W-940-M	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 135mm*H157mm	
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	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.90	.94	.91	.89	.92	.89	.88	.86
4.0	.95	.90	.87	.94	.90	.86	.92	.88	.85	.90	.87	.84	.88	.86	.83	.82
5.0	.90	.85	.82	.89	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.79	.78
6.0	.86	.81	.78	.85	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.76	.75
7.0	.82	.77	.74	.82	.77	.74	.80	.76	.73	.79	.76	.73	.78	.75	.72	.71
8.0	.79	.74	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.69	.68
9.0	.75	.70	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.73	.69	.66	.65
10.0	.72	.68	.64	.72	.67	.64	.71	.67	.64	.71	.67	.64	.70	.66	.64	.63



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WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.155	.088	.028	.148	.084	.027	.136	.078	.025	.124	.072	.023	.113	.066	.021		
2.0	.146	.080	.024	.140	.077	.024	.130	.072	.022	.120	.067	.021	.111	.063	.020		
3.0	.138	.073	.022	.133	.071	.021	.124	.067	.020	.116	.064	.020	.109	.060	.019		
4.0	.130	.068	.020	.126	.066	.020	.119	.063	.019	.112	.060	.018	.106	.057	.017		
5.0	.124	.063	.018	.120	.062	.018	.114	.059	.017	.108	.057	.017	.102	.055	.016		
6.0	.118	.059	.017	.115	.058	.017	.110	.056	.016	.104	.054	.016	.099	.052	.016		
7.0	.113	.056	.016	.110	.055	.016	.105	.053	.015	.101	.052	.015	.096	.050	.015		
8.0	.108	.053	.015	.106	.052	.015	.102	.051	.014	.097	.049	.014	.094	.048	.014		
9.0	.104	.050	.014	.102	.050	.014	.098	.048	.014	.094	.047	.014	.091	.046	.013		
10.0	.100	.048	.013	.098	.047	.013	.095	.046	.013	.091	.045	.013	.088	.044	.013		

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.170	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.109	.085	.066	.075	.059	.047	.044	.035	.028	.014	.011	.009	
5.0	.118	.086	.063	.101	.075	.055	.070	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.094	.066	.046	.065	.047	.033	.038	.027	.019	.012	.009	.006	
7.0	.103	.069	.045	.089	.060	.039	.061	.042	.028	.036	.025	.017	.011	.008	.005	
8.0	.097	.062	.039	.083	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.092	.057	.033	.079	.049	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.087	.052	.029	.075	.046	.026	.052	.032	.018	.030	.019	.011	.010	.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:220.7V I:0.0930A P:19.32W PF:0.9414 Lamp Flux:1315.15x1 lm										
NAME: S125R1-18W-940-M					TYPE:Downlight			SERIAL No.:		
SPEC.:4000K					DIM.: ϕ 135mm*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	9.4	10.2	9.6	10.3	10.5	10.2	11.0	10.4	11.1	11.3
3H	9.2	10.0	9.5	10.1	10.3	10.0	10.7	10.3	10.9	11.1
4H	9.1	9.8	9.4	10.0	10.3	9.9	10.6	10.2	10.8	11.1
6H	9.1	9.7	9.3	9.9	10.2	9.9	10.5	10.1	10.7	11.0
8H	9.0	9.6	9.3	9.9	10.1	9.8	10.4	10.1	10.7	10.9
12H	9.0	9.6	9.3	9.8	10.1	9.8	10.4	10.1	10.6	10.9
4H 2H	9.1	9.8	9.4	10.0	10.3	9.9	10.6	10.2	10.8	11.1
3H	9.0	9.6	9.3	9.8	10.1	9.8	10.4	10.1	10.6	10.9
4H	8.9	9.4	9.2	9.7	10.0	9.7	10.2	10.0	10.5	10.8
6H	8.8	9.3	9.2	9.6	9.9	9.6	10.0	9.9	10.4	10.7
8H	8.7	9.2	9.1	9.5	9.9	9.5	10.0	9.9	10.3	10.7
12H	8.7	9.1	9.1	9.5	9.8	9.5	9.9	9.9	10.2	10.6
8H 4H	8.7	9.2	9.1	9.5	9.9	9.5	10.0	9.9	10.3	10.7
6H	8.6	9.0	9.0	9.4	9.8	9.4	9.8	9.8	10.2	10.6
8H	8.6	8.9	9.0	9.3	9.7	9.4	9.7	9.8	10.1	10.5
12H	8.5	8.8	9.0	9.2	9.7	9.3	9.6	9.8	10.0	10.5
12H 4H	8.7	9.1	9.1	9.4	9.8	9.5	9.9	9.9	10.2	10.6
6H	8.6	8.9	9.0	9.3	9.7	9.4	9.7	9.8	10.1	10.5
8H	8.5	8.8	9.0	9.2	9.7	9.3	9.6	9.8	10.0	10.5
Variations with the observer position at spacings:										
S = 1.0H	+ 3.9 / -15.2					+ 4.2 / -16.2				
1.5H	+ 6.4 / -11.8					+ 6.9 / -13.1				
2.0H	+ 6.4 / -12.0					+ 7.0 / -12.3				

CIE Pub.117 Corrected 1315 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.0)

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UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0930A P:19.32W PF:0.9414 Lamp Flux:1315.15x1 lm		
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MFR.:		

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	88	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	107	103	100	106	102	100	104	101	99	94
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	109	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):

1306.6 lm

%lum = 99.4%

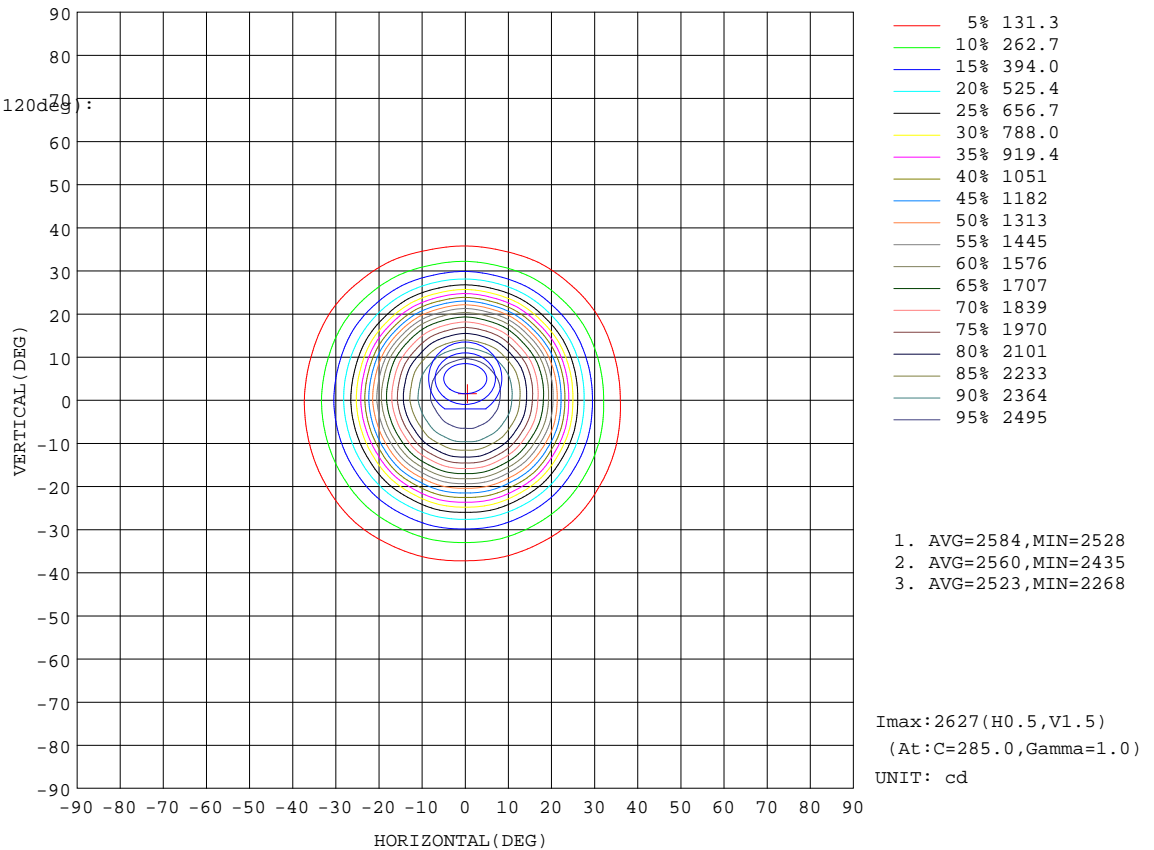
%lamp = 99.4%

Conical surface Flux(120deg):

1314.3 lm

%lum = 99.9%

%lamp = 99.9%

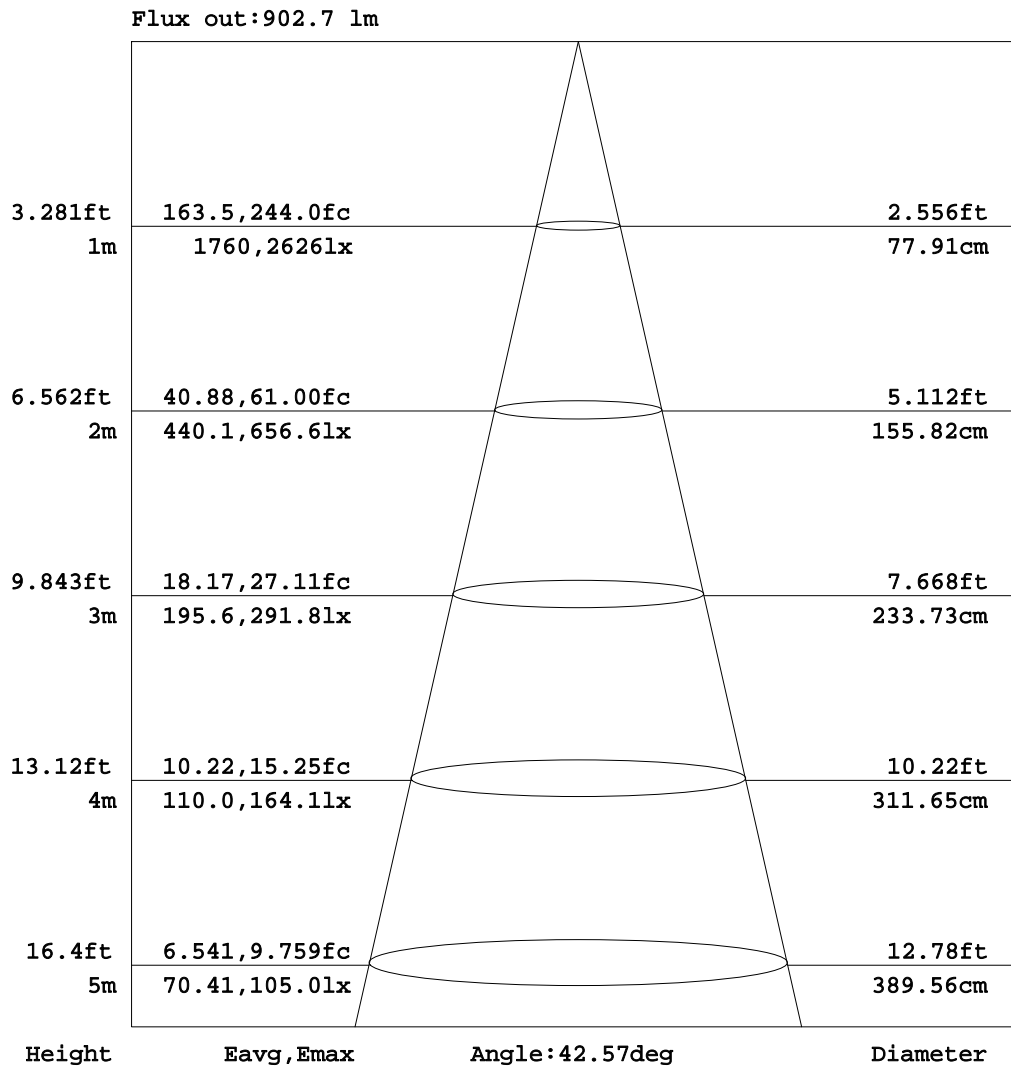


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AAI Figure

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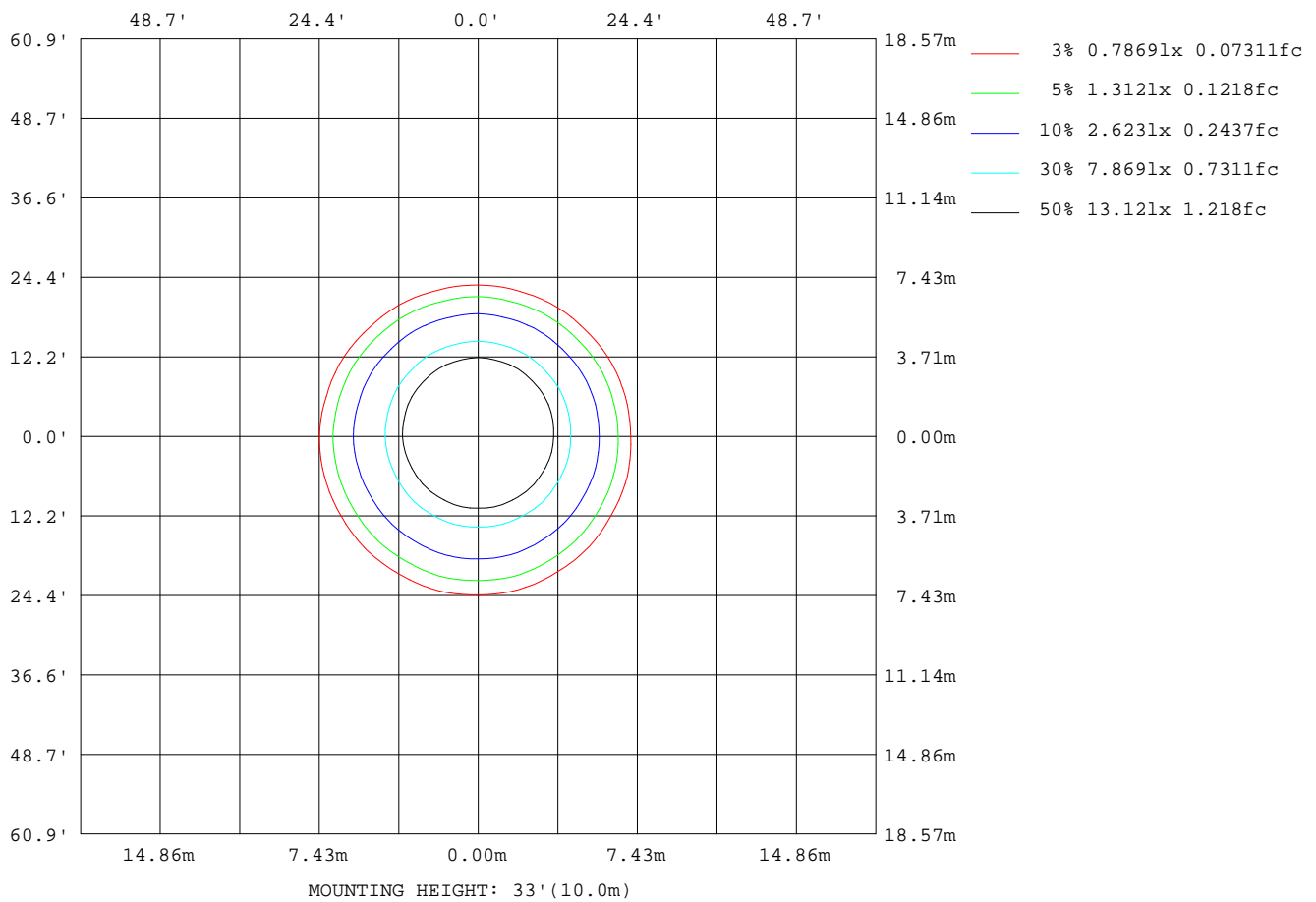
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

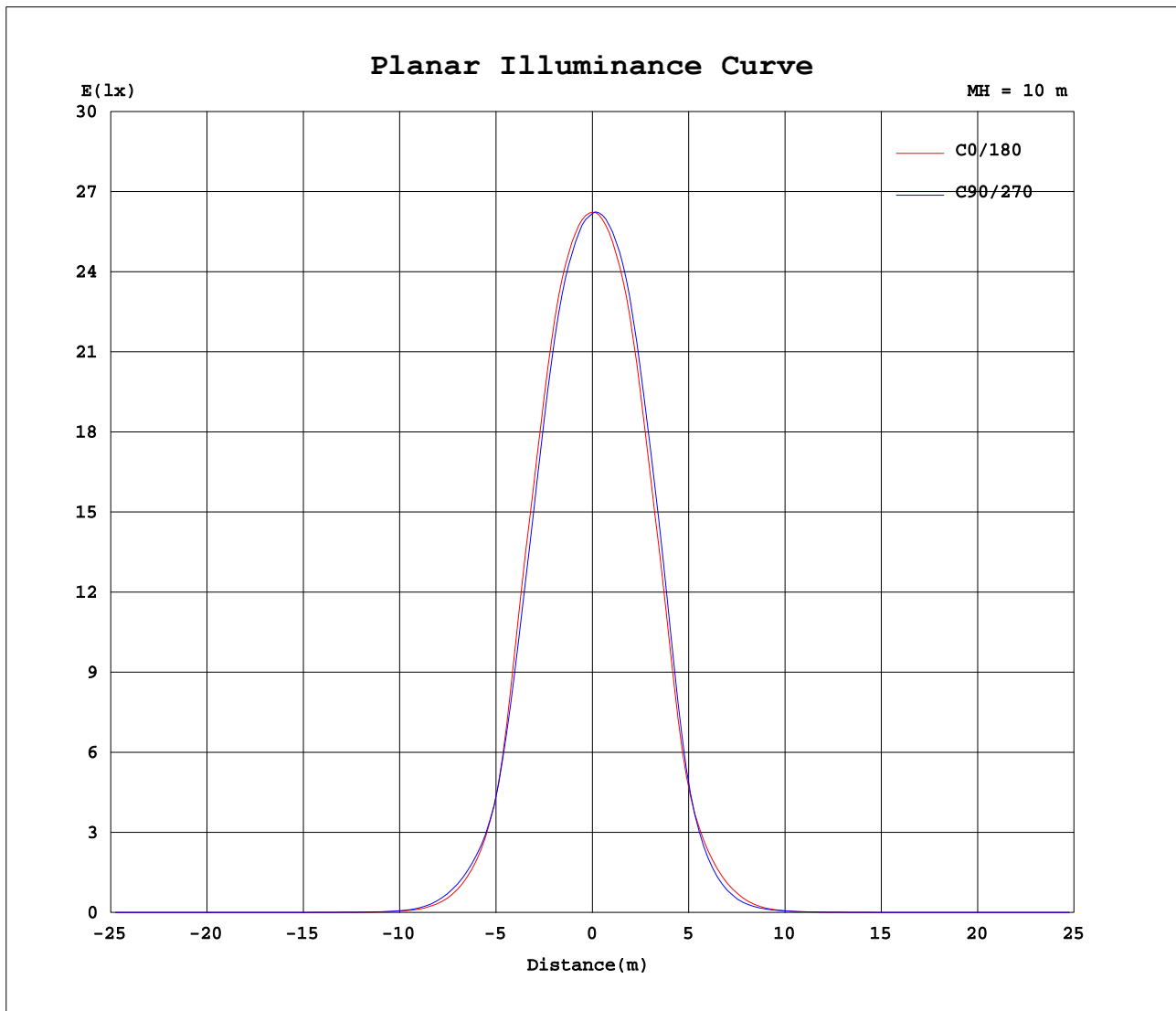
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Planar Illuminance Curve



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UNIT: cd

[illegible]

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Table--2

UNIT: cd

[illegible]

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Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-18

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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	2623	2621	2622	2621	2620	2620	2618	2621	2619	2621
3.0	2606	2603	2598	2595	2587	2591	2586	2588	2586	2592
6.0	2554	2544	2532	2531	2521	2519	2509	2515	2515	2525
9.0	2459	2450	2435	2427	2412	2409	2398	2409	2404	2417
12.0	2285	2270	2243	2239	2219	2218	2201	2215	2211	2236
15.0	2023	2008	1971	1965	1939	1943	1926	1940	1937	1967
18.0	1719	1702	1658	1651	1615	1618	1600	1616	1618	1648
21.0	1359	1353	1308	1296	1264	1263	1245	1263	1258	1291
24.0	916.6	924.4	900.2	910.8	888.2	892.8	879.5	897.3	882.0	899.3
27.0	566.0	572.2	562.0	571.1	564.0	575.1	567.0	577.4	565.5	579.6
30.0	364.0	372.4	370.1	380.0	381.4	390.8	386.4	394.7	389.5	397.0
33.0	226.9	235.2	239.1	249.0	253.7	264.6	263.1	267.7	262.8	267.6
36.0	129.9	140.6	142.0	152.1	156.0	164.7	165.3	169.9	166.4	169.5
39.0	67.29	72.44	74.36	80.64	83.29	88.67	89.93	93.50	91.74	93.13
42.0	31.57	33.49	33.58	36.83	38.00	40.94	41.89	44.37	43.67	44.51
45.0	15.85	16.21	16.06	16.89	16.95	18.23	18.63	20.42	20.23	20.68
48.0	9.050	9.111	8.867	9.106	9.085	9.503	9.847	10.71	10.80	10.60
51.0	5.646	5.607	5.404	5.459	5.531	5.795	6.007	6.592	6.613	6.252
54.0	3.930	3.868	3.729	3.787	3.789	4.006	4.171	4.604	4.616	4.416
57.0	2.406	2.325	2.200	2.233	2.251	2.437	2.602	2.915	2.927	2.799
60.0	1.341	1.246	1.142	1.178	1.210	1.344	1.484	1.738	1.722	1.609
63.0	0.6386	0.5779	0.5050	0.5451	0.5706	0.6698	0.7589	0.9166	0.9493	0.8490
66.0	0.3720	0.3037	0.2757	0.2775	0.3436	0.4173	0.4925	0.6009	0.6522	0.5550
69.0	0.3020	0.2359	0.2145	0.1988	0.2103	0.2618	0.3743	0.4603	0.4404	0.4260
72.0	0.2148	0.1525	0.1360	0.1025	0.0861	0.0721	0.0890	0.1372	0.1334	0.1960
75.0	0.1225	0.0918	0.0940	0.0700	0.0656	0.0612	0.0809	0.0743	0.1115	0.1093
78.0	0.1116	0.0809	0.0875	0.0700	0.0612	0.0612	0.0721	0.0788	0.1063	0.1027
81.0	0.1006	0.0765	0.0809	0.0700	0.0612	0.0612	0.0744	0.0678	0.0984	0.0984
84.0	0.0918	0.0765	0.0787	0.0722	0.0612	0.0612	0.0700	0.0678	0.0940	0.0962
87.0	0.0853	0.0765	0.0766	0.0743	0.0612	0.0656	0.0678	0.0678	0.0896	0.0962
90.0	0.0809	0.0765	0.0765	0.0743	0.0678	0.0656	0.0678	0.0678	0.0896	0.0962
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2621	2622	2623	2621	2622	2621	2620	2620	2618	2621
3.0	2593	2597	2606	2609	2613	2616	2618	2622	2622	2620
6.0	2525	2535	2553	2558	2570	2578	2583	2583	2591	2585
9.0	2420	2437	2460	2468	2488	2495	2507	2510	2521	2516
12.0	2235	2260	2294	2304	2334	2341	2362	2365	2375	2366
15.0	1968	2005	2042	2054	2093	2097	2132	2128	2147	2130
18.0	1653	1689	1734	1749	1793	1807	1839	1835	1856	1835
21.0	1297	1326	1380	1387	1431	1434	1472	1460	1486	1454
24.0	887.0	911.9	950.7	950.2	988.9	987.1	1022	1007	1027	995.9
27.0	577.5	594.2	614.6	609.5	624.7	618.6	633.7	620.0	629.5	610.1
30.0	394.7	406.8	418.8	411.3	414.9	400.3	399.2	383.1	384.4	369.8
33.0	264.7	270.5	276.1	266.1	262.5	246.9	240.5	226.8	225.4	217.2
36.0	165.3	167.4	167.7	157.2	151.8	137.0	135.1	123.0	125.3	119.5
39.0	90.43	89.97	89.54	81.75	77.57	69.82	67.11	62.61	63.54	62.22
42.0	42.51	41.90	41.09	37.04	35.87	32.46	32.64	31.23	32.05	31.07
45.0	19.39	19.10	18.95	17.64	17.53	16.69	17.10	16.78	17.12	16.62
48.0	9.900	9.806	9.873	9.526	9.684	9.405	9.772	9.706	9.970	9.643
51.0	5.899	5.784	5.762	5.661	5.743	5.595	5.908	6.002	6.158	6.020
54.0	4.073	3.924	3.886	3.811	3.917	3.909	4.042	4.067	4.153	4.073
57.0	2.454	2.312	2.291	2.179	2.304	2.380	2.453	2.459	2.553	2.512
60.0	1.376	1.290	1.246	1.161	1.162	1.253	1.296	1.299	1.354	1.347
63.0	0.7041	0.6590	0.6433	0.5983	0.5452	0.5768	0.6058	0.5878	0.6254	0.6184
66.0	0.4704	0.4084	0.3384	0.3285	0.3519	0.3477	0.3344	0.3215	0.3125	0.3238
69.0	0.3394	0.2730	0.2382	0.2188	0.2773	0.3041	0.2862	0.2734	0.2512	0.2713
72.0	0.1218	0.1767	0.2092	0.1793	0.1722	0.2255	0.2005	0.2014	0.1787	0.2080
75.0	0.0985	0.1246	0.1508	0.1677	0.1281	0.1597	0.1399	0.1509	0.1202	0.1159
78.0	0.0991	0.1137	0.1443	0.1560	0.1189	0.1465	0.1334	0.1465	0.1115	0.1115
81.0	0.0997	0.1028	0.1311	0.1444	0.1100	0.1400	0.1246	0.1312	0.1049	0.1028
84.0	0.1002	0.0984	0.1114	0.1269	0.1013	0.1203	0.1071	0.1181	0.0918	0.0984
87.0	0.1006	0.0962	0.0939	0.0962	0.0940	0.1072	0.0984	0.1050	0.0809	0.0897
90.0	0.0962	0.0962	0.0853	0.0831	0.0896	0.1006	0.0962	0.0896	0.0853	0.0853
G/C	300.0	315.0	330.0	345.0						
0.0	2619	2621	2621	2622						
3.0	2621	2618	2616	2608						
6.0	2586	2578	2573	2560						
9.0	2511	2500	2493	2476						
12.0	2368	2347	2338	2310						
15.0	2133	2103	2098	2061						
18.0	1837	1802	1797	1760						
21.0	1462	1423	1426	1392						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-07-18

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	1004	967.1	973.6	941.4
27.0	612.5	588.9	596.0	579.9
30.0	371.7	362.7	372.2	367.9
33.0	220.3	216.9	225.7	224.5
36.0	124.7	120.8	128.7	128.3
39.0	63.91	63.39	66.14	66.67
42.0	31.93	31.25	32.39	31.93
45.0	16.95	16.41	16.71	16.25
48.0	9.784	9.433	9.579	9.264
51.0	6.096	5.842	5.978	5.775
54.0	4.195	4.119	4.114	3.995
57.0	2.676	2.601	2.599	2.479
60.0	1.481	1.459	1.448	1.402
63.0	0.7282	0.7212	0.7129	0.6949
66.0	0.4175	0.4287	0.4154	0.4178
69.0	0.3692	0.3784	0.3891	0.3565
72.0	0.2942	0.3217	0.3409	0.2780
75.0	0.1158	0.1269	0.1115	0.1247
78.0	0.1027	0.1202	0.1049	0.1181
81.0	0.0962	0.1094	0.0962	0.1072
84.0	0.0852	0.0962	0.0808	0.0941
87.0	0.0787	0.0875	0.0678	0.0875
90.0	0.0787	0.0743	0.0678	0.0722

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-18

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: