
LED Downlight SENSE Series LE-
S68R1-11W-930-M



Light Output Ratio:	100.0%	
Luminaire Power:	12.9 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: 25.2DEG
Operators: Cao Chengpei
Test Date: 2016-11-29

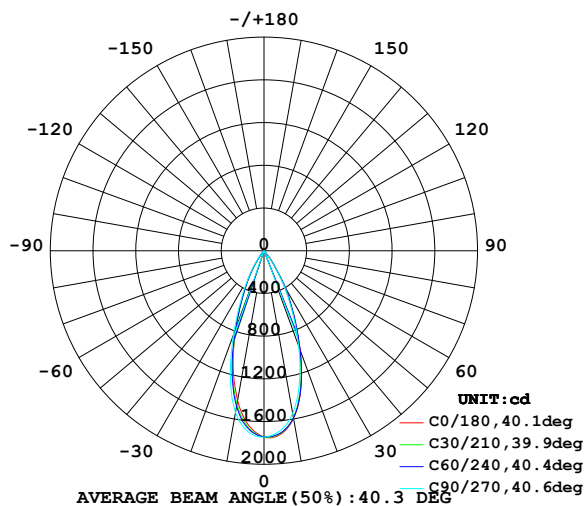
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

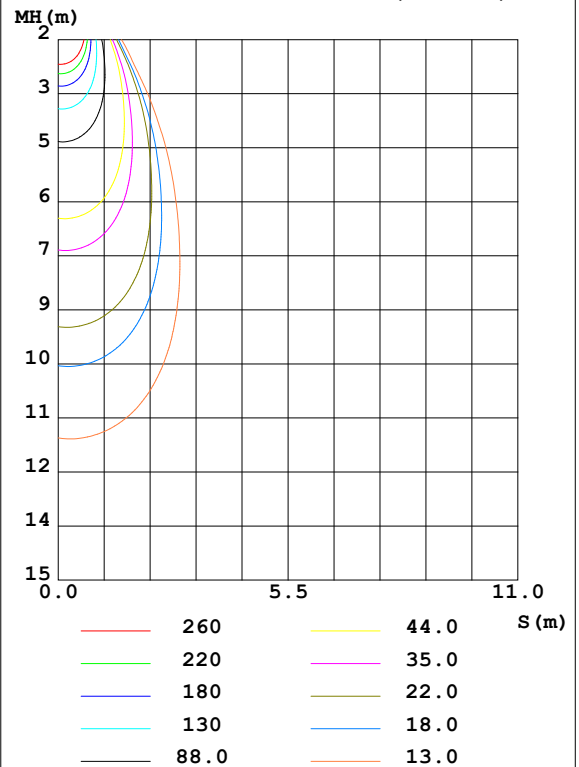
Test:U:220.6V I:0.0653A P:12.90W PF:0.8953 Lamp Flux:859.168x1 lm		
NAME: S68R1-11W-930-M	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 78mm*H98mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.59 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	1766	S/MH (C0/180)	0.61
NOMINAL POWER (W)	13.0	LOR (%)	100.0	S/MH (C90/270)	0.63
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	859.17	η UP, DN (C0-180)	0.0, 52.2
NOMINAL FLUX (lm)	859.168	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 47.8
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)



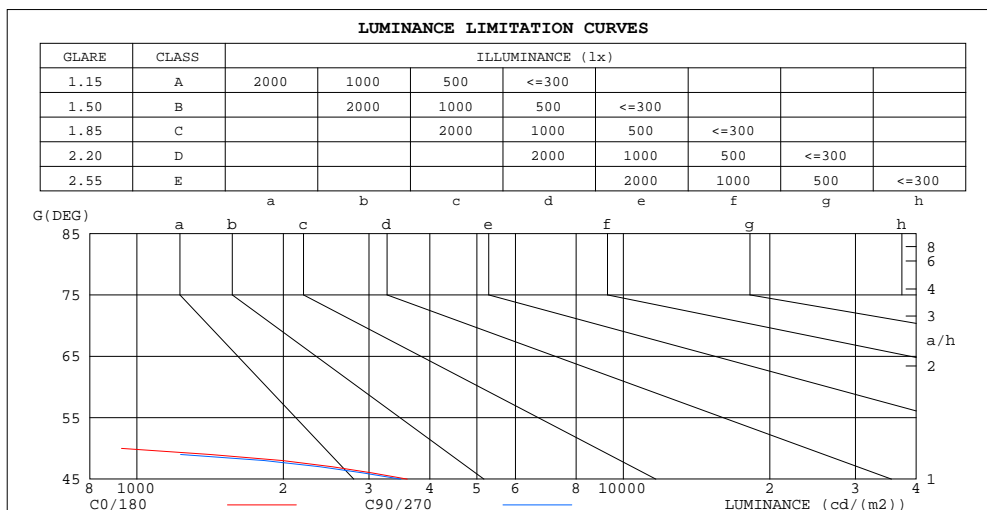
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 Remarks:

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	1595	1589	1546	1457	1424	1467	1537	1601	0- 10	156.6	156.6	18.2,18.2
20	991.2	984.6	950.5	859.1	772.8	760.1	833.4	940.8	10- 20	338.7	495.3	57.6,57.6
30	377.2	407.4	375.7	314.0	268.4	258.7	285.1	327.2	20- 30	260.9	756.2	88,88
40	41.90	44.94	40.29	34.45	32.44	30.07	31.16	35.03	30- 40	92.28	848.5	98.8,98.8
50	2.855	3.205	2.301	1.849	1.726	1.512	1.459	2.027	40- 50	9.867	858.3	99.9,99.9
60	0.1860	0.2295	0.3286	0.2382	0.2021	0.2390	0.1958	0.1602	50- 60	0.6331	859.0	100,100
70	0.0724	0.0362	0.0533	0.0341	0.0384	0.0703	0.0447	0.0618	60- 70	0.1130	859.1	100,100
80	0.0384	0.0320	0.0341	0.0341	0.0298	0.0448	0.0276	0.0448	70- 80	0.0438	859.1	100,100
90	0.0660	0.0383	0.0341	0.0362	0.0234	0.0213	0.0170	0.0213	80- 90	0.0342	859.2	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	107	61
80	46	41
75	50	31
70	44	33
65	53	92
60	78	138
55	178	197
50	930	749
45	3596	3486

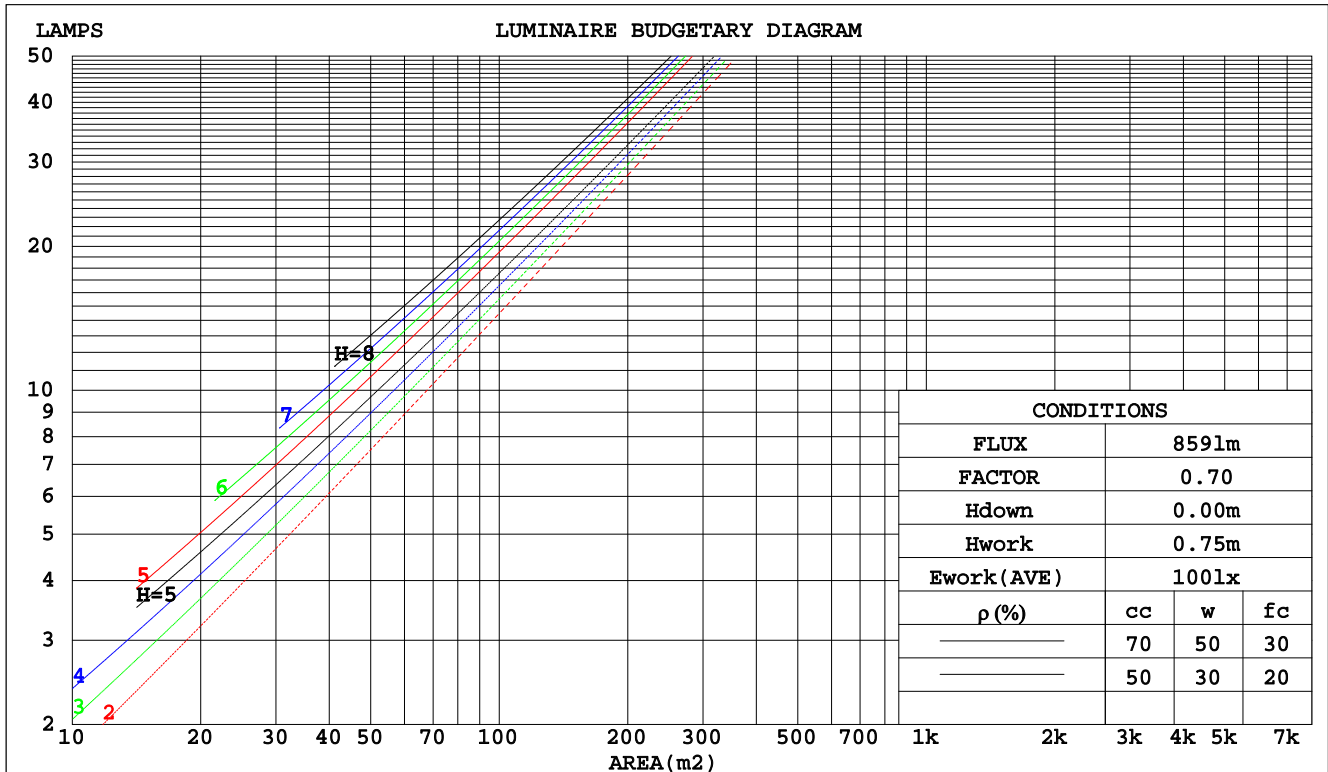
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 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.0653A P:12.90W PF:0.8953 Lamp Flux:859.168x1 lm		
NAME: S68R1-11W-930-M	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 78mm*H98mm	
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	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	.93	.92	.90
3.0	.00	.96	.92	.98	.95	.91	.96	.93	.90	.94	.91	.89	.91	.89	.87	.86
4.0	.95	.90	.86	.94	.89	.86	.91	.88	.85	.90	.86	.84	.88	.85	.83	.82
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.86	.82	.80	.84	.81	.79	.78
6.0	.86	.81	.77	.85	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.75	.74
7.0	.82	.77	.73	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.74	.72	.71
8.0	.78	.73	.70	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.67
9.0	.75	.70	.66	.74	.70	.66	.73	.69	.66	.73	.69	.66	.72	.68	.66	.64
10.0	.72	.67	.63	.71	.67	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.62



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WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.156	.089	.028	.149	.085	.027	.137	.078	.025	.125	.072	.023	.115	.066	.021		
2.0	.147	.081	.025	.142	.078	.024	.131	.073	.023	.122	.068	.021	.113	.064	.020		
3.0	.139	.074	.022	.134	.072	.022	.126	.068	.021	.118	.064	.020	.110	.061	.019		
4.0	.132	.069	.020	.128	.067	.020	.120	.064	.019	.113	.061	.018	.107	.058	.018		
5.0	.125	.064	.019	.122	.063	.018	.116	.060	.018	.110	.058	.017	.104	.056	.017		
6.0	.120	.060	.017	.117	.059	.017	.111	.057	.017	.106	.055	.016	.101	.053	.016		
7.0	.114	.057	.016	.112	.056	.016	.107	.054	.016	.102	.052	.015	.098	.051	.015		
8.0	.110	.054	.015	.107	.053	.015	.103	.051	.015	.099	.050	.014	.095	.049	.014		
9.0	.105	.051	.014	.103	.050	.014	.099	.049	.014	.096	.048	.014	.092	.047	.014		
10.0	.101	.049	.013	.099	.048	.013	.096	.047	.013	.093	.046	.013	.089	.045	.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	.157	.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	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.075	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.118	.086	.063	.102	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.095	.067	.046	.065	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.104	.069	.045	.089	.060	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005	
8.0	.098	.063	.038	.084	.054	.033	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.092	.057	.033	.080	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.088	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

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 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.0653A P:12.90W PF:0.8953 Lamp Flux:859.168x1 lm										
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SPEC.:3000K					DIM.: ϕ 78mm*H98mm					
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	14.9	15.7	15.1	15.9	16.0	14.7	15.5	14.9	15.7	15.8
3H	14.8	15.5	15.0	15.7	15.9	14.6	15.3	14.8	15.5	15.7
4H	14.7	15.4	14.9	15.6	15.8	14.5	15.2	14.7	15.4	15.6
6H	14.6	15.2	14.9	15.5	15.7	14.4	15.0	14.7	15.3	15.5
8H	14.5	15.2	14.8	15.4	15.7	14.3	15.0	14.6	15.2	15.5
12H	14.5	15.1	14.8	15.4	15.6	14.3	14.9	14.6	15.2	15.4
4H 2H	14.7	15.4	14.9	15.6	15.8	14.5	15.2	14.7	15.4	15.6
3H	14.5	15.1	14.8	15.4	15.6	14.3	14.9	14.6	15.2	15.4
4H	14.4	15.0	14.7	15.2	15.6	14.2	14.7	14.5	15.0	15.3
6H	14.3	14.8	14.7	15.1	15.5	14.1	14.6	14.5	14.9	15.3
8H	14.3	14.7	14.6	15.1	15.4	14.0	14.5	14.4	14.8	15.2
12H	14.2	14.6	14.6	15.0	15.4	14.0	14.4	14.4	14.8	15.2
8H 4H	14.3	14.7	14.6	15.1	15.4	14.0	14.5	14.4	14.8	15.2
6H	14.1	14.5	14.6	14.9	15.3	13.9	14.3	14.4	14.7	15.1
8H	14.1	14.4	14.5	14.8	15.3	13.9	14.2	14.3	14.6	15.1
12H	14.0	14.3	14.5	14.8	15.2	13.8	14.1	14.3	14.5	15.0
12H 4H	14.2	14.6	14.6	15.0	15.4	14.0	14.4	14.4	14.8	15.2
6H	14.1	14.4	14.5	14.8	15.3	13.9	14.2	14.3	14.6	15.1
8H	14.0	14.3	14.5	14.7	15.2	13.8	14.1	14.3	14.5	15.0
Variations with the observer position at spacings:										
S = 1.0H	+ 4.7 / -25.7					+ 4.4 / -25.0				
1.5H	+ 7.4 / -23.4					+ 7.1 / -22.7				
2.0H	+ 7.6 / -16.9					+ 7.6 / -15.3				

CIE Pub.117 Corrected 859.2 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.5)

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 Remarks:

UTILIZATION FACTORS TABLE

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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	82	90	85	82	90	85	81	78
0.80	98	93	89	97	92	89	96	92	89	85
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	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	106	104	98
4.00	115	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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MFR.:		

Conical surface Flux(90deg):

855.99 lm

%lum = 99.6%

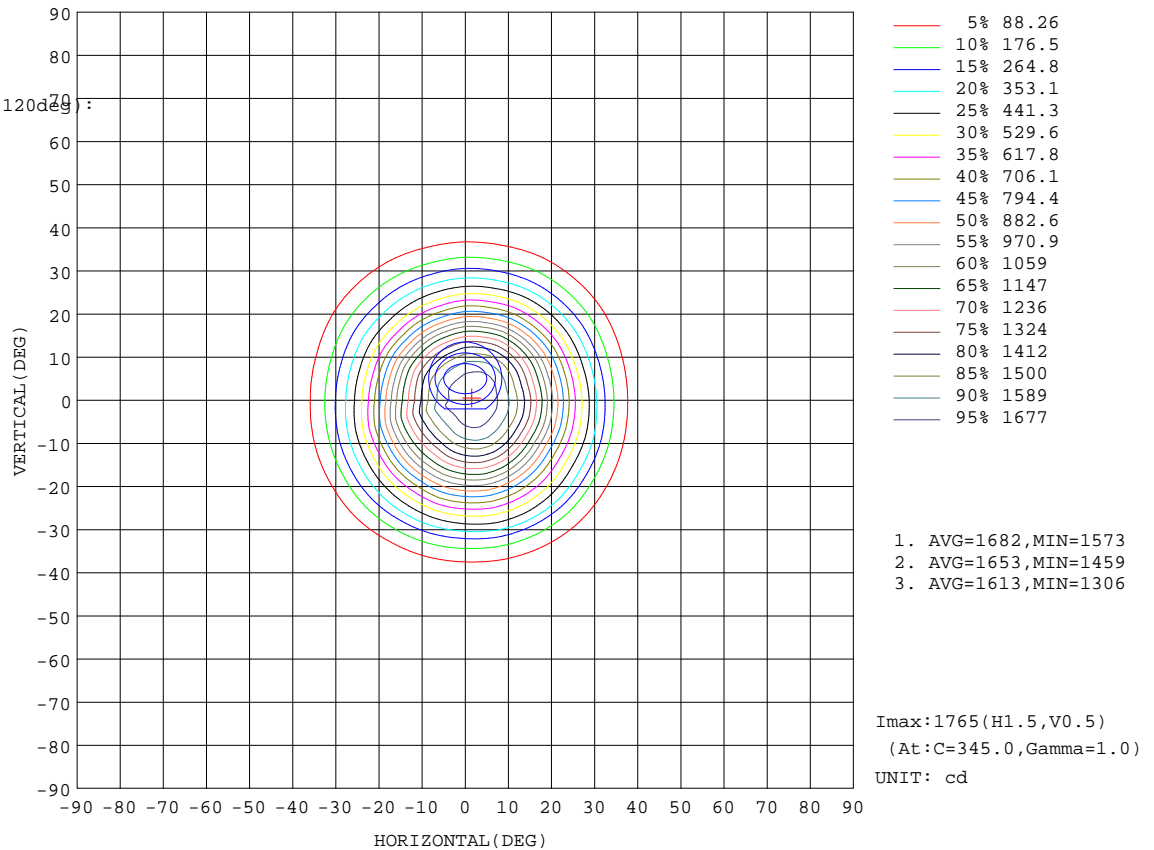
%lamp = 99.6%

Conical surface Flux(120deg):

858.98 lm

%lum = 100.0%

%lamp = 100.0%

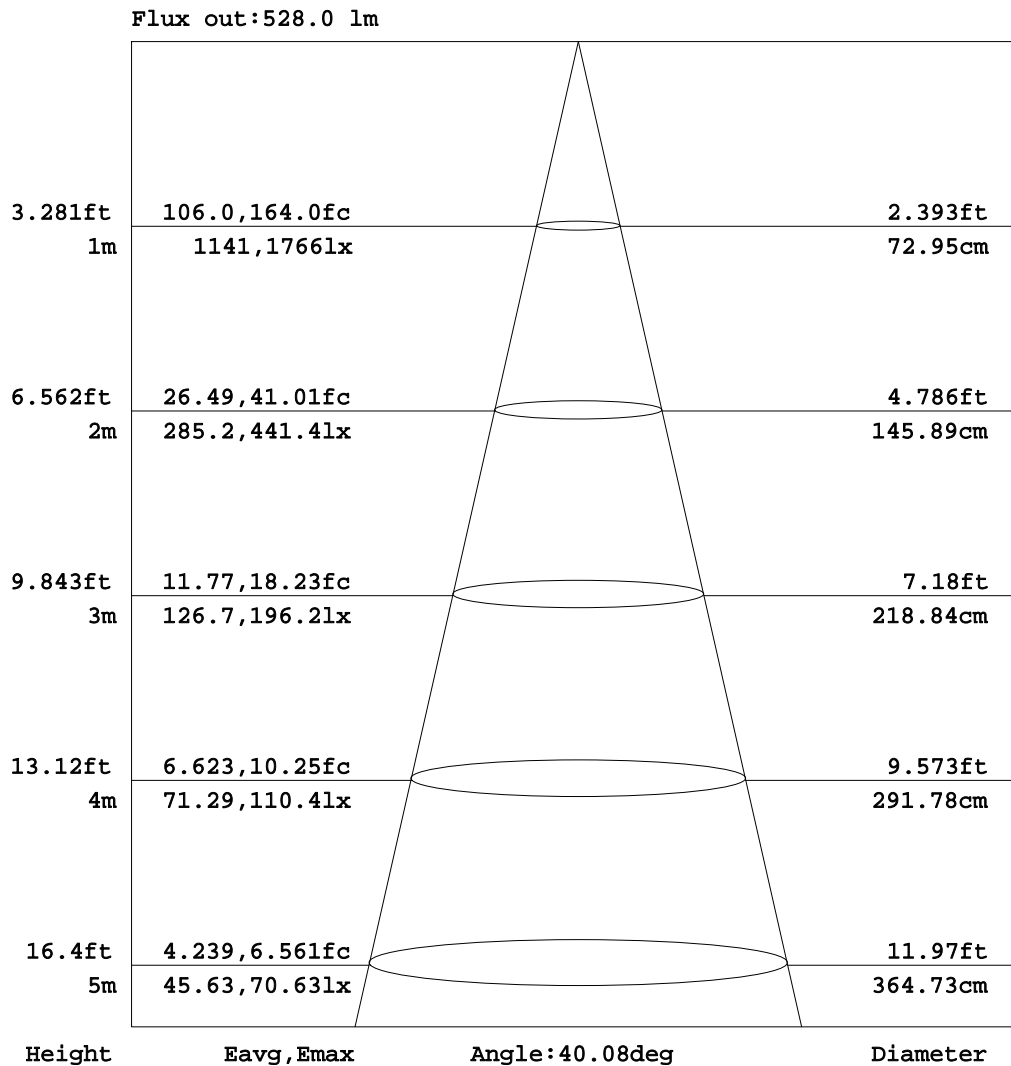


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AAI Figure

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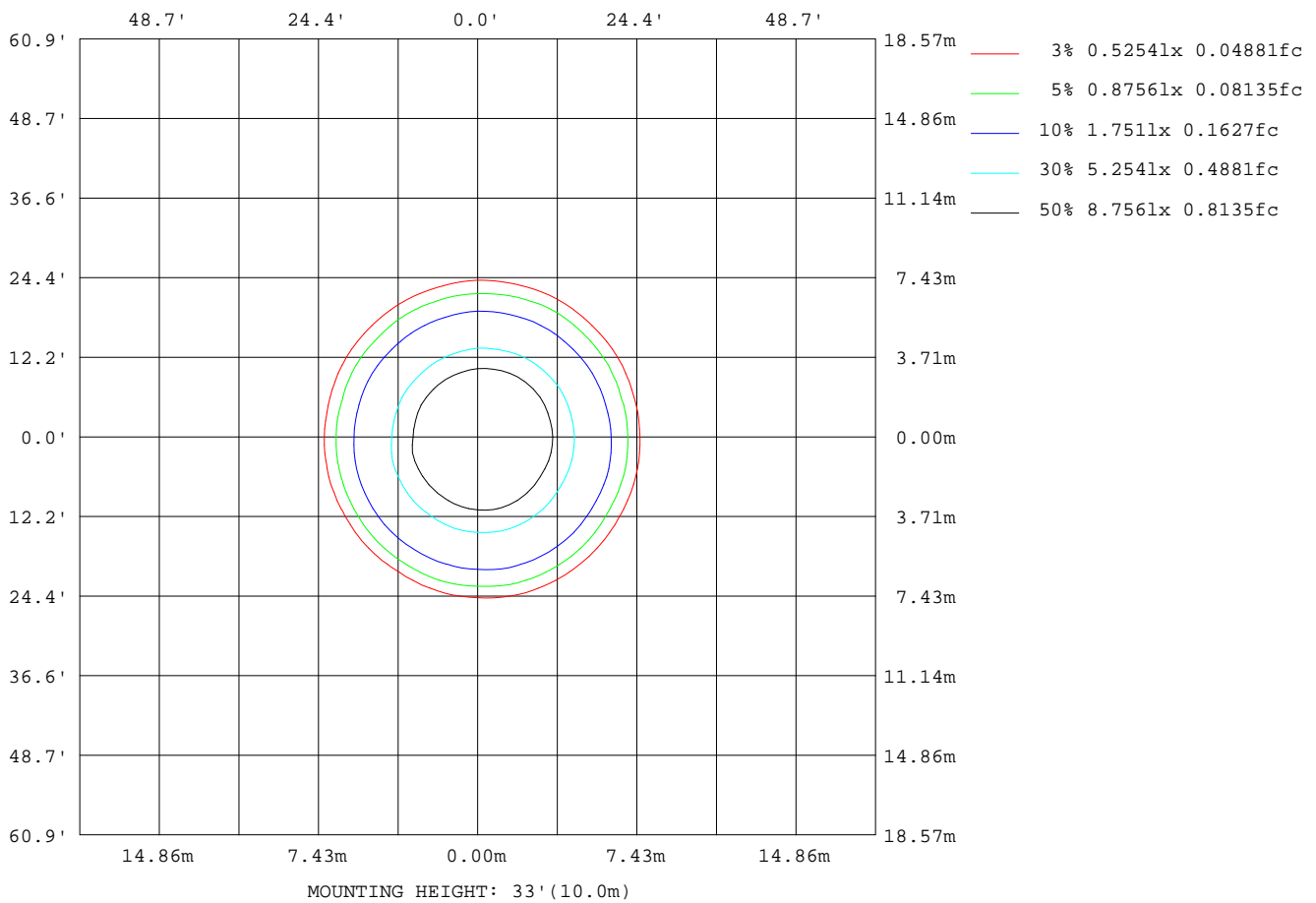
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

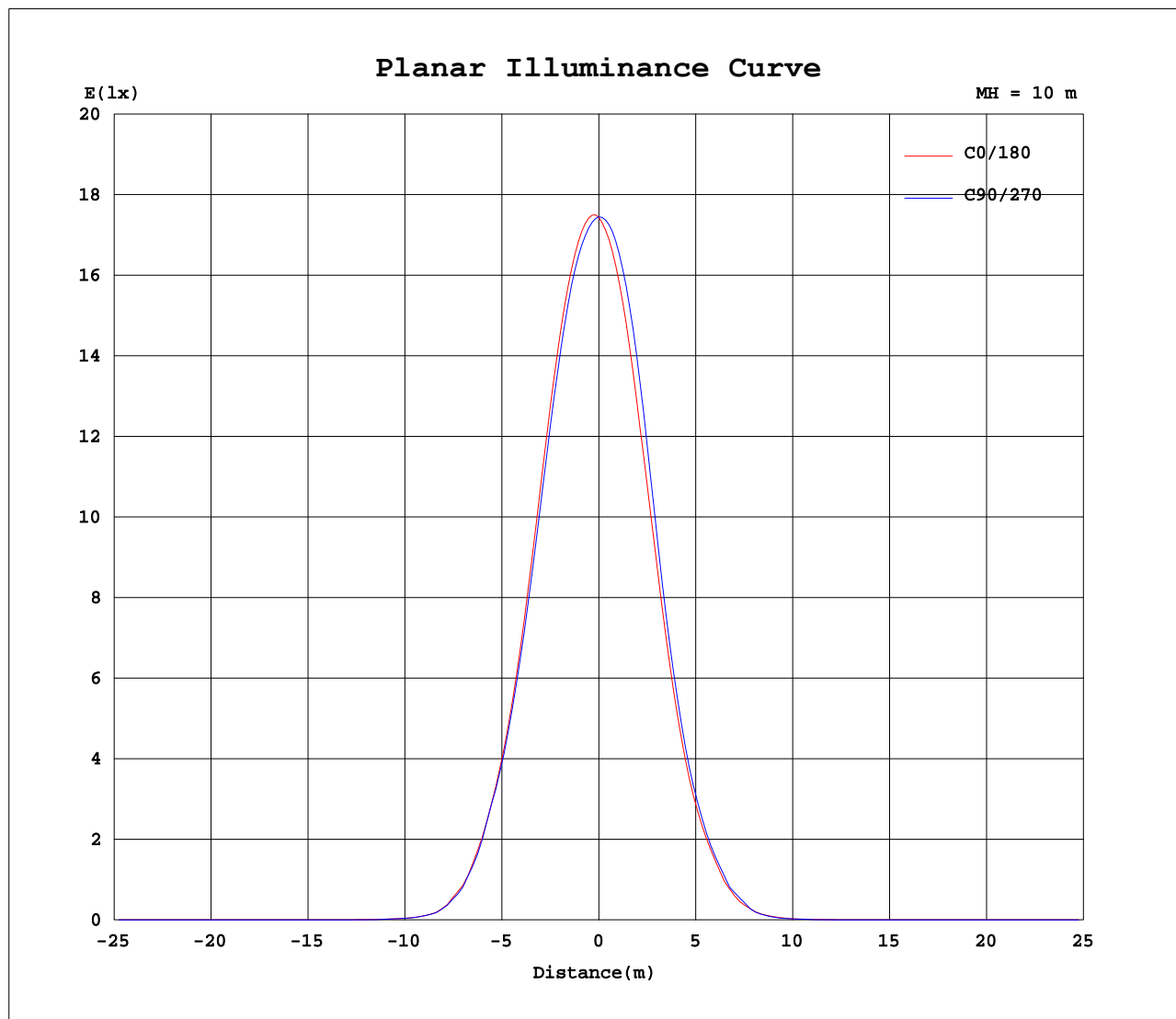
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
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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	1744	1743	1744	1742	1742	1742	1745	1746	1746	1751
3.0	1749	1747	1743	1738	1736	1731	1724	1715	1705	1705
6.0	1712	1710	1704	1701	1699	1690	1675	1655	1632	1623
9.0	1632	1633	1626	1626	1625	1612	1586	1559	1522	1505
12.0	1507	1511	1498	1501	1504	1485	1453	1420	1373	1352
15.0	1337	1341	1323	1328	1332	1315	1284	1247	1200	1181
18.0	1135	1136	1114	1124	1131	1123	1087	1054	1015	993.3
21.0	918.4	920.3	901.5	915.5	919.7	912.5	882.0	855.3	814.5	794.0
24.0	713.0	715.6	706.5	720.2	723.0	717.2	691.2	668.7	627.6	608.5
27.0	534.1	542.8	537.3	550.8	553.5	546.1	521.0	499.3	468.4	444.0
30.0	377.2	395.6	390.7	407.4	414.1	406.1	375.7	356.5	332.5	314.0
33.0	238.9	248.6	241.2	249.1	246.9	243.7	228.3	217.6	199.1	187.2
36.0	133.0	137.9	132.5	141.0	136.4	137.4	121.8	112.4	100.8	96.88
39.0	59.89	58.73	62.33	60.76	64.77	59.25	57.54	50.37	45.93	44.97
42.0	25.57	26.94	26.49	28.06	27.27	27.09	25.08	24.27	22.43	21.89
45.0	12.14	12.74	12.51	13.16	12.67	12.55	11.77	11.33	10.32	9.884
48.0	6.367	6.804	6.659	7.017	6.534	6.405	5.844	5.579	4.956	4.789
51.0	1.922	2.099	1.970	2.002	1.781	1.647	1.480	1.412	1.273	1.182
54.0	0.5527	0.6040	0.5707	0.7098	0.6096	0.6129	0.5940	0.6004	0.5759	0.5238
57.0	0.4116	0.3999	0.3967	0.4234	0.4711	0.4725	0.4861	0.5044	0.4755	0.4128
60.0	0.1860	0.1763	0.1881	0.2295	0.2925	0.3106	0.3286	0.3319	0.2840	0.2382
63.0	0.1194	0.0915	0.1024	0.1064	0.1579	0.2254	0.2579	0.2574	0.2112	0.1318
66.0	0.1002	0.0639	0.0810	0.0745	0.0959	0.0787	0.1074	0.1102	0.0921	0.0616
69.0	0.0725	0.0362	0.0491	0.0404	0.0640	0.0447	0.0554	0.0320	0.0469	0.0341
72.0	0.0682	0.0320	0.0448	0.0341	0.0533	0.0341	0.0490	0.0320	0.0405	0.0341
75.0	0.0619	0.0320	0.0426	0.0320	0.0490	0.0277	0.0384	0.0298	0.0362	0.0341
78.0	0.0532	0.0320	0.0384	0.0320	0.0447	0.0277	0.0383	0.0298	0.0320	0.0341
81.0	0.0383	0.0341	0.0341	0.0320	0.0405	0.0277	0.0320	0.0298	0.0298	0.0341
84.0	0.0383	0.0427	0.0341	0.0320	0.0299	0.0277	0.0277	0.0298	0.0298	0.0362
87.0	0.0554	0.0618	0.0362	0.0341	0.0277	0.0341	0.0256	0.0320	0.0298	0.0362
90.0	0.0660	0.0618	0.0405	0.0383	0.0320	0.0341	0.0341	0.0341	0.0341	0.0362
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1756	1762	1744	1743	1744	1742	1742	1742	1745	1746
3.0	1710	1721	1696	1699	1708	1712	1715	1721	1733	1741
6.0	1627	1643	1609	1616	1633	1641	1648	1659	1681	1696
9.0	1502	1520	1478	1485	1510	1518	1530	1549	1582	1602
12.0	1349	1359	1306	1313	1344	1351	1366	1384	1427	1452
15.0	1170	1175	1117	1115	1136	1139	1157	1176	1218	1248
18.0	972.3	967.0	911.0	899.6	912.7	908.7	926.3	944.9	985.3	1016
21.0	767.7	756.7	706.5	692.1	700.3	690.5	709.5	724.1	763.5	788.5
24.0	577.9	565.5	526.2	511.7	518.6	508.1	521.2	538.5	568.4	588.0
27.0	419.6	406.7	381.7	371.8	375.9	369.1	380.5	392.0	413.0	428.2
30.0	294.7	283.3	268.4	262.1	264.3	258.7	265.1	270.5	285.1	292.8
33.0	171.9	166.3	159.9	155.4	159.4	158.1	163.9	166.8	181.6	190.1
36.0	91.33	91.25	86.67	85.49	89.97	90.23	93.42	95.34	102.9	107.3
39.0	41.90	41.72	42.15	40.36	41.12	39.78	40.56	39.51	40.77	41.31
42.0	20.41	19.90	20.10	18.72	18.58	17.46	17.47	16.90	17.47	17.61
45.0	9.327	9.158	9.152	8.631	8.423	7.891	7.865	7.645	7.933	8.170
48.0	4.411	4.353	4.493	4.082	4.013	3.627	3.653	3.402	3.568	3.692
51.0	1.091	1.089	1.101	1.046	1.081	1.141	1.133	1.070	1.098	1.216
54.0	0.5151	0.5430	0.6046	0.5970	0.6175	0.6694	0.6856	0.6374	0.5812	0.5630
57.0	0.3968	0.4147	0.4528	0.4416	0.4507	0.4716	0.4994	0.4587	0.4186	0.4054
60.0	0.1966	0.1787	0.2021	0.2305	0.2277	0.2390	0.2256	0.2284	0.1958	0.1858
63.0	0.1259	0.1170	0.1404	0.1706	0.1659	0.1770	0.1784	0.2003	0.1639	0.1535
66.0	0.0790	0.0701	0.0913	0.1173	0.1042	0.1173	0.0956	0.1154	0.1041	0.1003
69.0	0.0426	0.0362	0.0383	0.0703	0.0532	0.0703	0.0447	0.0618	0.0426	0.0618
72.0	0.0383	0.0362	0.0341	0.0640	0.0447	0.0639	0.0404	0.0596	0.0383	0.0576
75.0	0.0362	0.0362	0.0341	0.0575	0.0383	0.0575	0.0383	0.0490	0.0362	0.0512
78.0	0.0362	0.0362	0.0341	0.0532	0.0320	0.0511	0.0277	0.0426	0.0298	0.0447
81.0	0.0362	0.0362	0.0277	0.0426	0.0319	0.0426	0.0277	0.0341	0.0234	0.0362
84.0	0.0362	0.0362	0.0234	0.0362	0.0213	0.0320	0.0170	0.0298	0.0149	0.0320
87.0	0.0362	0.0362	0.0234	0.0320	0.0213	0.0298	0.0150	0.0256	0.0149	0.0234
90.0	0.0362	0.0362	0.0234	0.0256	0.0213	0.0213	0.0192	0.0192	0.0170	0.0192
G/C	300.0	315.0	330.0	345.0						
0.0	1746	1751	1756	1762						
3.0	1751	1760	1762	1760						
6.0	1714	1724	1724	1715						
9.0	1629	1641	1640	1625						
12.0	1488	1504	1505	1490						
15.0	1295	1318	1326	1316						
18.0	1067	1097	1118	1114						
21.0	835.5	865.2	896.3	899.4						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: Cao Chengpei
 Test Date: 2016-11-29

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	629.8	652.9	686.3	694.2
27.0	458.8	480.5	500.9	510.3
30.0	313.1	327.2	345.6	356.7
33.0	204.5	213.3	223.9	228.7
36.0	115.5	119.8	125.6	126.1
39.0	44.85	49.84	50.15	56.64
42.0	19.33	20.26	22.71	23.90
45.0	8.859	9.491	10.50	11.21
48.0	4.222	4.543	5.325	5.769
51.0	1.455	1.536	1.606	1.597
54.0	0.5726	0.5413	0.5341	0.5378
57.0	0.4229	0.3777	0.3952	0.4094
60.0	0.1785	0.1602	0.1507	0.1752
63.0	0.1043	0.1045	0.0830	0.1087
66.0	0.0703	0.0895	0.0660	0.0895
69.0	0.0490	0.0639	0.0383	0.0576
72.0	0.0447	0.0618	0.0341	0.0469
75.0	0.0404	0.0618	0.0320	0.0447
78.0	0.0341	0.0533	0.0319	0.0384
81.0	0.0298	0.0363	0.0298	0.0320
84.0	0.0191	0.0277	0.0362	0.0320
87.0	0.0170	0.0256	0.0362	0.0320
90.0	0.0170	0.0213	0.0362	0.0405

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2016-11-29

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: