

LED Downlight TAKEO Series LE-
T100-9W-840-50



Light Output Ratio:	100.0%	
Luminaire Power:	8.892 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2018-01-19

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:

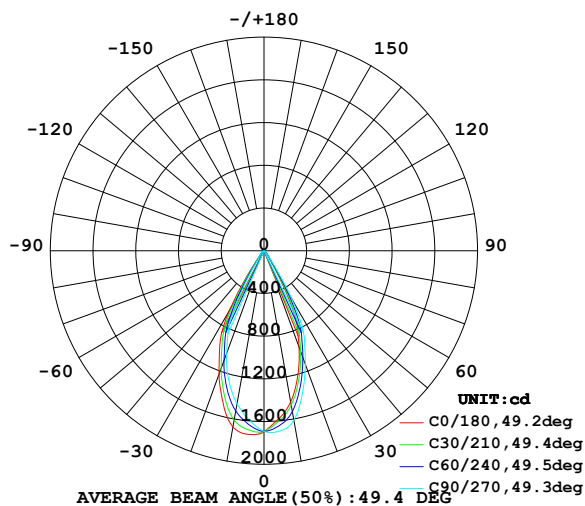
GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

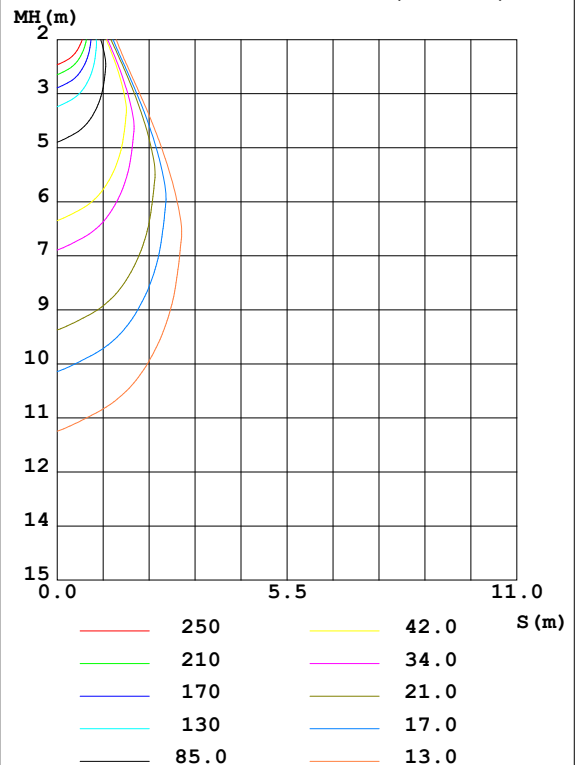
Test:U:34.20V I:0.2600A P:8.892W PF:1.000 Lamp Flux:1053.78x1 lm		
NAME: T100-9W-840-50	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 110mm*H79mm	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 118.51 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	1745	S/MH (C0/180)	0.82
NOMINAL POWER (W)	9	LOR (%)	100.0	S/MH (C90/270)	0.73
RATED VOLTAGE (V)	36	TOTAL FLUX (lm)	1053.8	η UP,DN (C0-180)	0.0, 51.3
NOMINAL FLUX (lm)	1053.78	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0, 48.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	34.2	η down (%)	100.0	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
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 Test Date: 2018-01-19

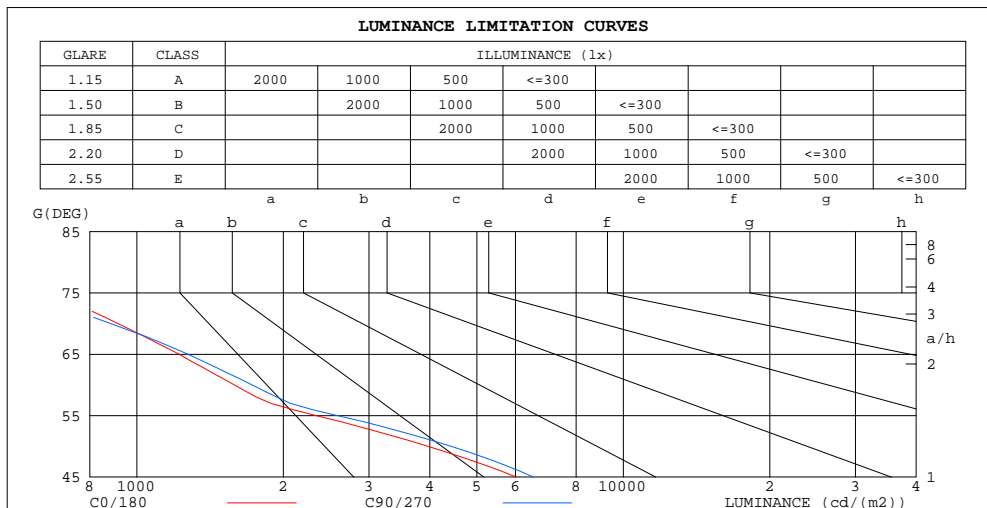
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ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1439	1498	1612	1678	1677	1564	1456	1428	0- 10	154.2	154.2	14.6,14.6
20	959.6	1039	1134	1202	1233	1127	1022	972.8	10- 20	370.1	524.3	49.8,49.8
30	286.2	382.5	520.6	617.6	653.8	504.2	360.5	306.8	20- 30	365.5	889.8	84.4,84.4
40	60.88	62.00	66.63	68.55	65.16	61.26	64.68	68.99	30- 40	109.5	999.2	94.8,94.8
50	24.25	24.53	27.05	29.08	26.88	25.53	27.26	29.18	40- 50	33.49	1033	98,98
60	7.532	7.302	8.194	9.218	7.539	7.154	8.429	9.791	50- 60	13.73	1046	99.3,99.3
70	2.970	2.691	2.873	3.563	3.182	2.856	3.098	3.766	60- 70	5.305	1052	99.8,99.8
80	0.7144	0.4910	0.4607	0.6918	0.8117	0.6243	0.5538	0.8083	70- 80	1.790	1054	100,100
90	0.0503	0.0415	0.0503	0.0437	0.0262	0.0284	0.0284	0.0284	80- 90	0.2237	1054	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		



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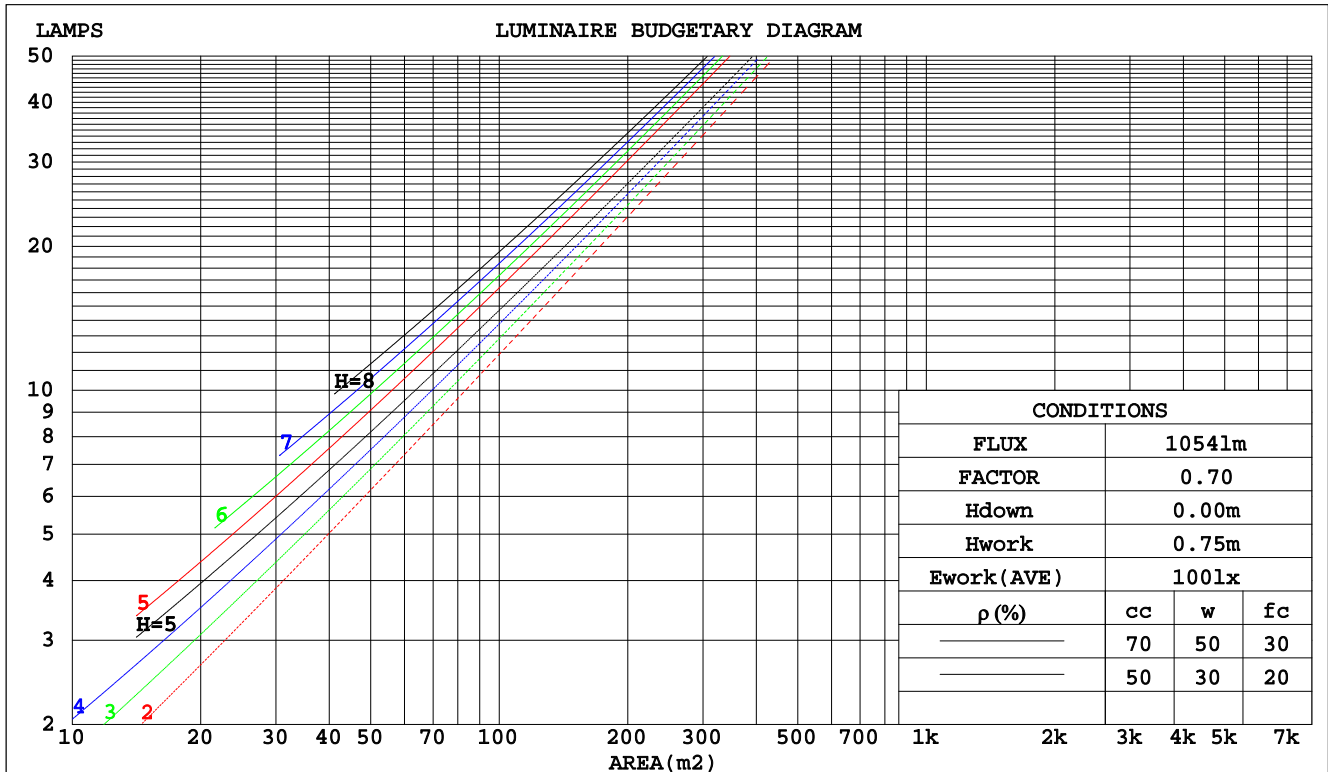
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: T100-9W-840-50	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 110mm*H79mm	

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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.01	.98	1.03	.99	.96	.99	.97	.94	.97	.94	.92	.94	.92	.90	.89
3.0	.98	.94	.90	.97	.93	.89	.94	.91	.88	.92	.89	.86	.90	.87	.85	.84
4.0	.93	.87	.84	.91	.87	.83	.89	.85	.82	.87	.84	.81	.86	.83	.80	.79
5.0	.87	.82	.78	.87	.82	.78	.85	.80	.77	.83	.79	.77	.82	.78	.76	.75
6.0	.83	.77	.74	.82	.77	.73	.81	.76	.73	.79	.75	.72	.78	.75	.72	.70
7.0	.79	.73	.69	.78	.73	.69	.77	.72	.69	.76	.72	.68	.75	.71	.68	.67
8.0	.75	.69	.66	.74	.69	.65	.73	.69	.65	.72	.68	.65	.71	.67	.65	.63
9.0	.71	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.62	.60
10.0	.68	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.65	.61	.59	.57



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WEC AND CCEC

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SPEC.:4000K					DIM.: φ110mm*H79mm				

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	.166	.095	.030	.160	.091	.029	.147	.084	.027	.136	.078	.025	.125	.072	.023		
2.0	.158	.087	.027	.152	.084	.026	.142	.079	.024	.132	.074	.023	.123	.070	.022		
3.0	.150	.080	.024	.145	.078	.023	.136	.074	.022	.128	.070	.021	.120	.067	.021		
4.0	.142	.074	.022	.138	.072	.021	.130	.069	.021	.123	.066	.020	.117	.063	.019		
5.0	.135	.069	.020	.132	.068	.020	.125	.065	.019	.119	.063	.019	.113	.060	.018		
6.0	.129	.065	.018	.126	.063	.018	.120	.061	.018	.114	.059	.017	.109	.058	.017		
7.0	.123	.061	.017	.120	.060	.017	.115	.058	.017	.110	.057	.016	.106	.055	.016		
8.0	.118	.058	.016	.115	.057	.016	.111	.055	.016	.107	.054	.016	.103	.053	.015		
9.0	.113	.055	.015	.111	.054	.015	.107	.053	.015	.103	.052	.015	.099	.050	.015		
10.0	.108	.052	.014	.106	.051	.014	.103	.050	.014	.099	.049	.014	.096	.048	.014		

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	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.091	.121	.098	.079	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.074	.112	.085	.065	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.044	.092	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.096	.058	.032	.083	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.053	.028	.079	.046	.025	.055	.033	.018	.032	.019	.011	.010	.006	.003	

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UGR(Unified Glare Rating) Table

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NAME: T100-9W-840-50	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: $\phi 110\text{mm} \times H79\text{mm}$	

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	10.8	11.7	11.0	11.8	12.0	12.6	13.4	12.8	13.6	13.7
3H	10.8	11.6	11.0	11.8	12.0	12.5	13.3	12.7	13.5	13.7
4H	10.7	11.5	11.0	11.7	11.9	12.4	13.2	12.7	13.4	13.6
6H	10.7	11.4	11.0	11.6	11.9	12.3	13.0	12.6	13.3	13.5
8H	10.6	11.3	10.9	11.6	11.8	12.3	13.0	12.6	13.2	13.5
12H	10.6	11.3	10.9	11.5	11.8	12.2	12.9	12.6	13.2	13.4
4H 2H	10.7	11.4	10.9	11.6	11.9	12.4	13.1	12.7	13.4	13.6
3H	10.7	11.3	11.0	11.6	11.9	12.3	13.0	12.6	13.2	13.5
4H	10.7	11.2	11.0	11.5	11.8	12.3	12.8	12.6	13.1	13.4
6H	10.6	11.1	11.0	11.4	11.8	12.2	12.7	12.5	13.0	13.4
8H	10.5	11.0	10.9	11.4	11.7	12.1	12.6	12.5	13.0	13.3
12H	10.5	10.9	10.9	11.3	11.7	12.1	12.5	12.5	12.9	13.3
8H 4H	10.5	11.0	10.9	11.4	11.7	12.1	12.6	12.5	13.0	13.3
6H	10.5	10.9	10.9	11.3	11.7	12.0	12.4	12.5	12.8	13.2
8H	10.4	10.8	10.9	11.2	11.6	12.0	12.3	12.4	12.7	13.2
12H	10.4	10.7	10.8	11.1	11.6	11.9	12.2	12.4	12.7	13.1
12H 4H	10.5	10.9	10.9	11.3	11.7	12.1	12.5	12.5	12.9	13.3
6H	10.4	10.8	10.9	11.2	11.6	12.0	12.3	12.4	12.7	13.2
8H	10.4	10.7	10.8	11.1	11.6	11.9	12.2	12.4	12.7	13.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 4.0					+ 2.5 / - 4.3				
1.5H	+ 2.6 / - 3.5					+ 3.4 / - 3.9				
2.0H	+ 4.1 / - 3.7					+ 4.3 / - 4.2				

CIE Pub.117 Corrected 1054 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.2)

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GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:34.20V I:0.2600A P:8.892W PF:1.000 Lamp Flux:1053.78x1 lm		
NAME: T100-9W-840-50	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: $\phi 110\text{mm} \times H79\text{mm}$	

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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	88	82	78	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
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):

1018.8 lm

%lum = 96.7%

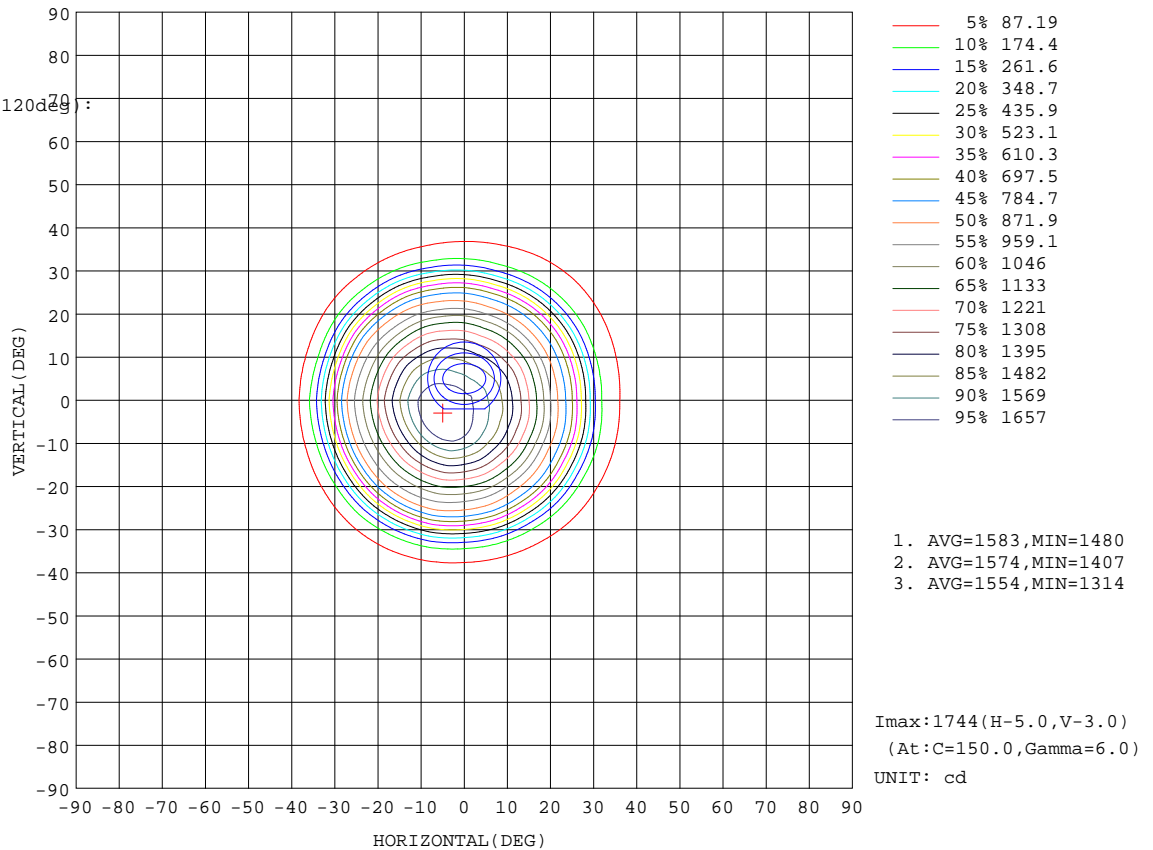
%lamp = 96.7%

Conical surface Flux(120deg):

1046.5 lm

%lum = 99.3%

%lamp = 99.3%



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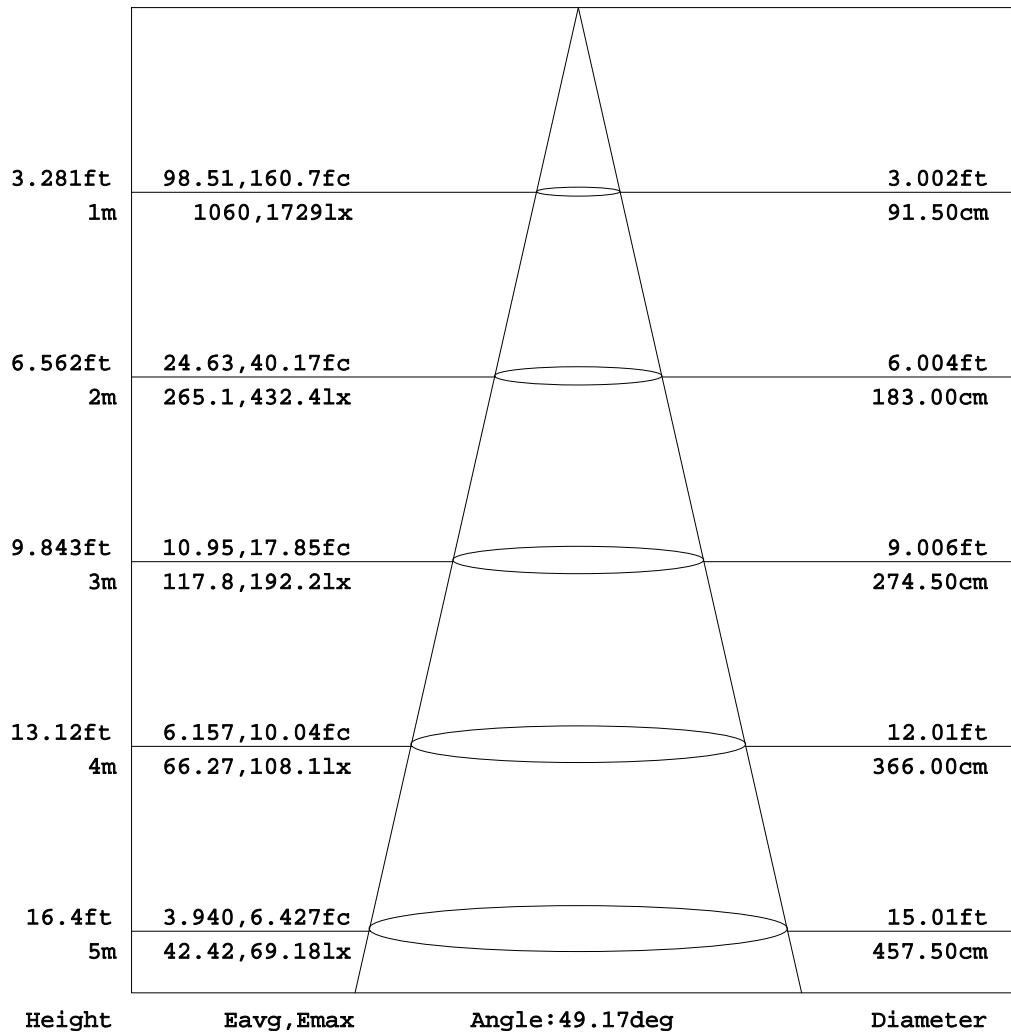
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AAI Figure

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Flux out:724.4 lm



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

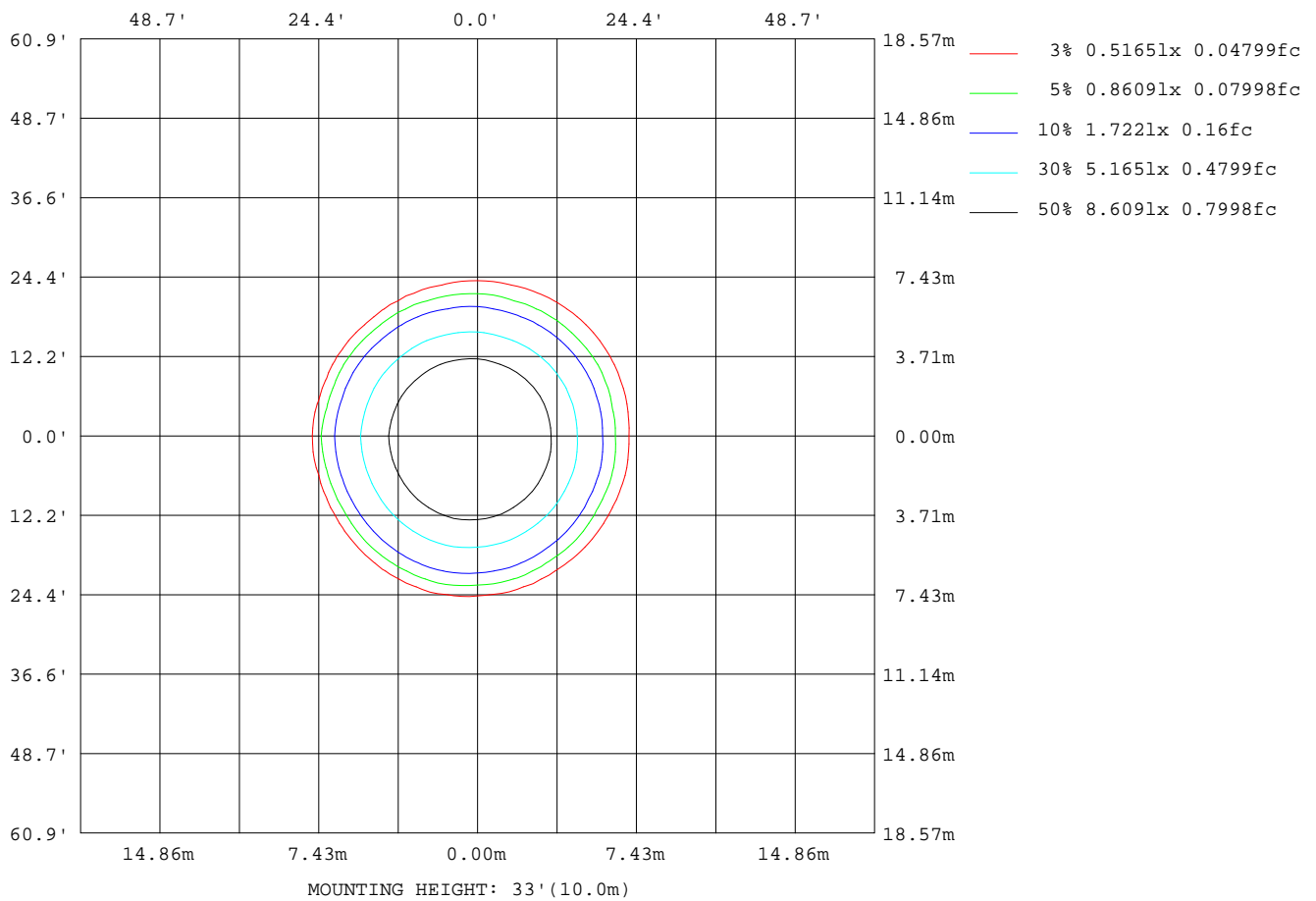
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ISOLUX DIAGRAM

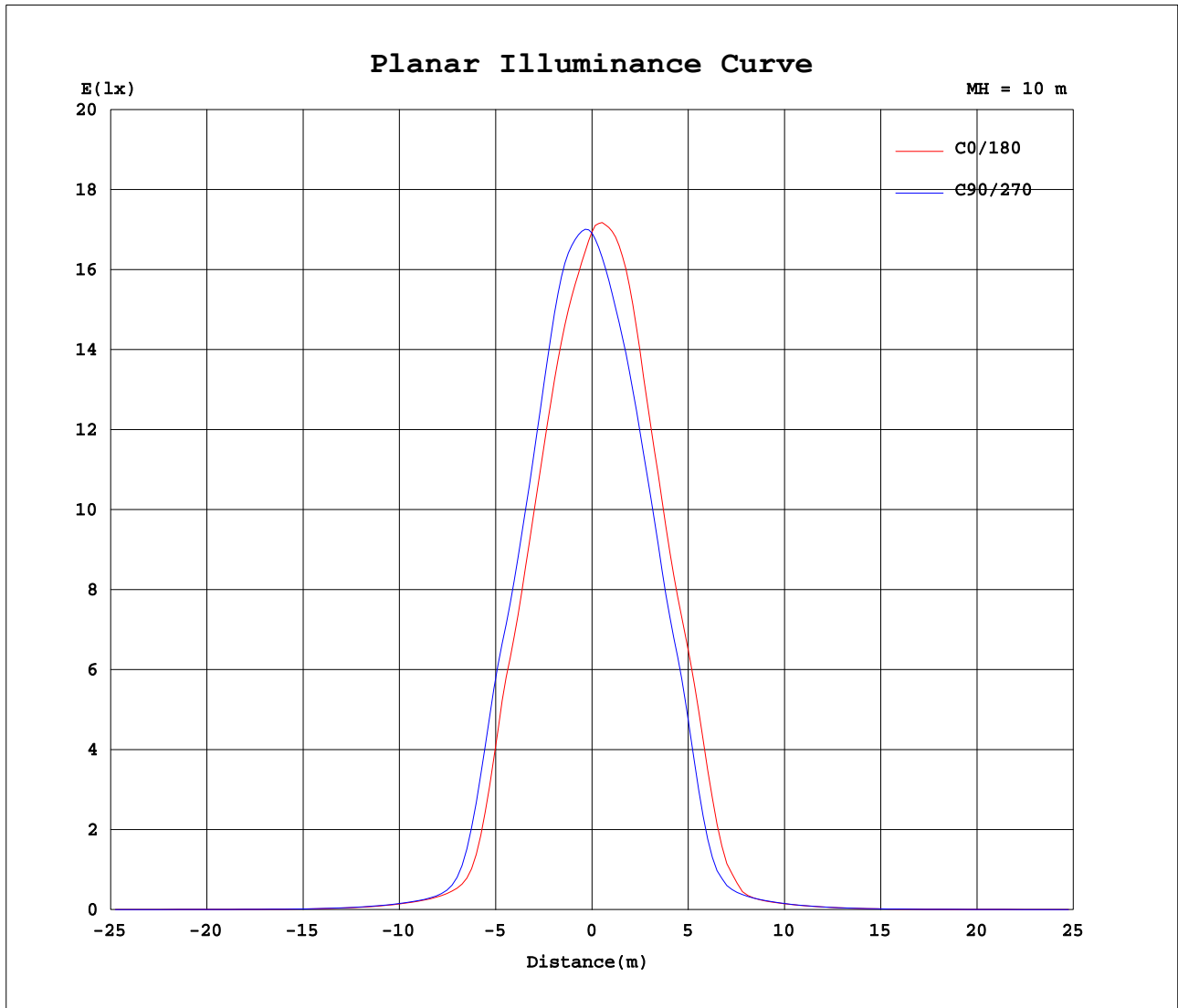
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Planar Illuminance Curve



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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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Test:U:34.20V I:0.2600A P:8.892W PF:1.000 Lamp Flux:1053.78x1 lm		
NAME: T100-9W-840-50	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H79mm	

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2018-01-19

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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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GONIOPHOTOMETERS SYSTEM TEST REPORT

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	1694	1696	1692	1692	1691	1691	1692	1690	1692	1692
3.0	1626	1636	1642	1657	1672	1688	1703	1715	1723	1727
6.0	1558	1571	1581	1603	1628	1660	1687	1712	1727	1734
9.0	1474	1491	1502	1531	1561	1606	1642	1679	1697	1705
12.0	1359	1379	1391	1421	1451	1497	1535	1576	1595	1604
15.0	1221	1245	1256	1289	1315	1359	1389	1429	1446	1457
18.0	1069	1095	1109	1143	1168	1209	1235	1274	1291	1304
21.0	905.7	933.4	949.7	986.1	1013	1056	1083	1120	1134	1148
24.0	763.4	787.3	803.2	837.5	866.1	907.8	936.3	972.6	989.7	1002
27.0	535.0	574.3	592.5	646.9	685.1	742.4	779.6	827.3	844.7	858.7
30.0	286.2	318.7	336.0	382.5	420.1	479.1	520.6	578.5	597.5	617.6
33.0	134.1	153.0	151.8	173.3	194.2	229.8	258.1	300.8	317.5	329.1
36.0	87.69	89.52	89.86	93.73	97.66	106.6	115.8	138.8	139.1	150.6
39.0	66.61	66.72	66.81	67.63	69.09	71.02	73.16	77.28	78.72	77.66
42.0	52.10	52.23	51.75	52.62	53.05	54.52	55.57	57.93	58.59	57.28
45.0	40.47	40.52	40.05	40.95	41.42	42.98	43.90	45.95	46.43	45.53
48.0	30.21	30.18	29.79	30.60	31.09	32.59	33.40	35.29	35.86	35.21
51.0	21.54	21.45	21.14	21.79	22.11	23.34	24.07	25.92	26.56	26.24
54.0	14.69	14.61	14.33	14.87	14.94	15.71	16.35	17.94	18.74	18.81
57.0	9.757	9.709	9.462	9.799	9.688	10.09	10.70	11.67	12.53	12.75
60.0	7.532	7.418	7.230	7.302	7.377	7.743	8.194	9.054	9.487	9.218
63.0	5.846	5.724	5.556	5.579	5.602	5.852	6.219	6.901	7.307	7.166
66.0	4.463	4.372	4.185	4.197	4.170	4.337	4.604	5.136	5.488	5.429
69.0	3.305	3.220	3.045	3.032	2.969	3.089	3.254	3.672	3.960	3.982
72.0	2.374	2.269	2.116	2.086	2.024	2.094	2.204	2.494	2.696	2.782
75.0	1.634	1.514	1.385	1.348	1.295	1.326	1.391	1.583	1.737	1.819
78.0	1.036	0.9170	0.8175	0.7750	0.7343	0.7356	0.7717	0.8840	0.9951	1.070
81.0	0.5830	0.4889	0.4297	0.3752	0.3466	0.3206	0.3402	0.3860	0.4739	0.5345
84.0	0.2875	0.2246	0.1932	0.1350	0.1167	0.0828	0.0992	0.0979	0.1454	0.1828
87.0	0.1274	0.0763	0.0616	0.0415	0.0481	0.0612	0.0525	0.0657	0.0481	0.0437
90.0	0.0503	0.0481	0.0503	0.0415	0.0481	0.0415	0.0503	0.0459	0.0568	0.0437
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1703	1700	1694	1696	1692	1692	1691	1691	1692	1690
3.0	1737	1732	1725	1712	1697	1680	1665	1648	1637	1624
6.0	1745	1737	1724	1701	1676	1644	1616	1584	1565	1547
9.0	1710	1704	1695	1664	1632	1589	1550	1509	1485	1462
12.0	1611	1613	1616	1580	1548	1500	1460	1414	1388	1359
15.0	1458	1468	1478	1445	1420	1373	1338	1292	1266	1236
18.0	1308	1320	1333	1303	1279	1236	1204	1158	1131	1099
21.0	1151	1162	1177	1142	1116	1072	1039	994.8	968.3	936.3
24.0	1006	1014	1025	993.1	968.2	925.7	895.1	853.6	828.7	797.6
27.0	859.7	869.6	882.4	845.0	817.8	764.1	722.5	660.9	625.3	577.9
30.0	614.8	634.1	653.8	598.9	569.3	504.2	457.6	394.4	360.5	320.1
33.0	330.1	343.6	362.7	320.4	294.9	246.7	215.2	180.3	165.4	150.7
36.0	141.2	154.2	170.6	135.3	132.8	109.3	102.0	96.00	95.69	95.15
39.0	74.64	74.10	76.00	71.36	70.31	69.08	68.08	68.77	70.37	72.03
42.0	54.69	53.23	53.08	51.71	52.06	51.79	52.68	53.32	55.53	57.11
45.0	43.56	42.47	42.26	40.78	40.92	40.72	41.58	41.98	43.81	44.98
48.0	33.71	32.88	32.65	31.36	31.35	31.17	31.79	32.00	33.41	34.35
51.0	25.21	24.41	24.19	23.06	23.14	22.84	23.22	23.28	24.34	25.13
54.0	17.91	17.38	17.05	16.15	16.26	15.94	15.99	15.91	16.80	17.57
57.0	11.92	11.36	11.24	10.52	10.48	10.37	10.40	10.17	11.23	11.77
60.0	8.408	7.844	7.539	7.203	7.165	7.154	7.420	7.714	8.429	9.178
63.0	6.575	6.161	5.928	5.678	5.612	5.597	5.740	5.946	6.463	7.068
66.0	5.036	4.772	4.625	4.398	4.349	4.280	4.386	4.477	4.840	5.287
69.0	3.726	3.587	3.519	3.324	3.263	3.180	3.219	3.224	3.496	3.797
72.0	2.645	2.579	2.577	2.417	2.343	2.259	2.249	2.233	2.404	2.590
75.0	1.774	1.752	1.802	1.657	1.585	1.519	1.485	1.463	1.557	1.680
78.0	1.089	1.098	1.163	1.053	0.9843	0.9308	0.8816	0.8543	0.8924	0.9770
81.0	0.5941	0.6111	0.6632	0.6001	0.5387	0.4995	0.4381	0.4077	0.4141	0.4778
84.0	0.2679	0.2616	0.3248	0.2699	0.2439	0.2042	0.1347	0.1275	0.1129	0.1452
87.0	0.0554	0.0982	0.1417	0.1118	0.0414	0.0330	0.0328	0.0350	0.0328	0.0350
90.0	0.0437	0.0437	0.0262	0.0284	0.0262	0.0284	0.0284	0.0284	0.0284	0.0262
G/C	300.0	315.0	330.0	345.0						
0.0	1692	1692	1703	1700						
3.0	1621	1619	1628	1626						
6.0	1544	1544	1554	1555						
9.0	1461	1461	1470	1470						
12.0	1354	1353	1359	1354						
15.0	1230	1224	1224	1217						
18.0	1091	1082	1078	1068						
21.0	927.4	919.4	914.5	904.3						

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2018-01-19

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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

24.0	788.7	778.0	772.0	762.0
27.0	570.7	561.2	557.2	541.9
30.0	313.2	306.8	303.4	292.4
33.0	149.9	147.4	151.5	138.2
36.0	96.99	96.86	94.66	91.09
39.0	74.28	74.34	72.38	69.67
42.0	59.09	58.98	57.60	54.93
45.0	46.61	46.50	45.38	43.02
48.0	35.66	35.59	34.54	32.46
51.0	26.34	26.22	25.22	23.36
54.0	18.64	18.64	17.65	16.13
57.0	12.97	12.81	11.95	10.76
60.0	9.950	9.791	9.054	8.136
63.0	7.686	7.613	7.015	6.329
66.0	5.784	5.771	5.330	4.840
69.0	4.171	4.222	3.946	3.569
72.0	2.890	2.956	2.788	2.548
75.0	1.884	1.962	1.869	1.727
78.0	1.113	1.202	1.163	1.088
81.0	0.5581	0.6463	0.6457	0.6155
84.0	0.1758	0.2591	0.2897	0.3026
87.0	0.0262	0.0353	0.0565	0.1054
90.0	0.0262	0.0284	0.0219	0.0306

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2018-01-19

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: