

LED Downlight FUSION Series LE-FF3-FS1-9W-840-40D
Specular



Light Output Ratio:	100.0%	
Luminaire Power:	10.49 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: 2017-06-10

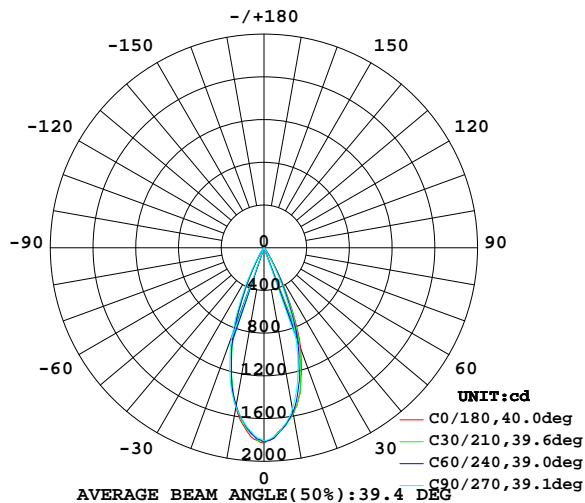
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

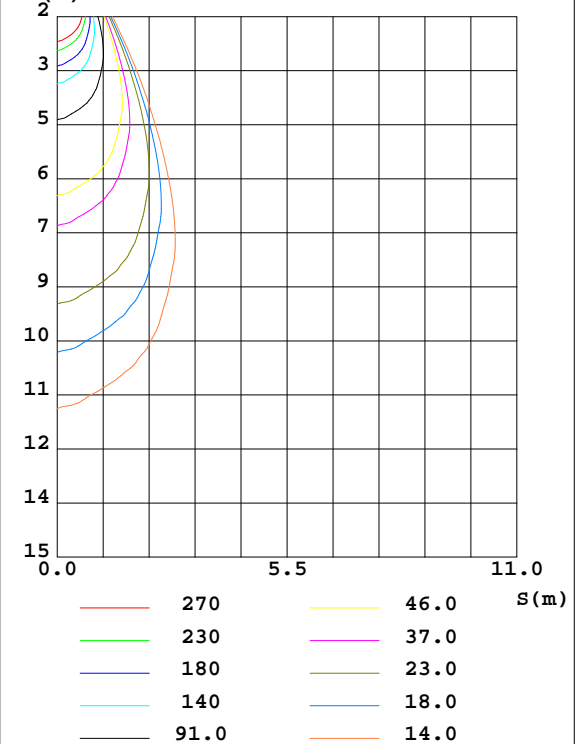
Test:U:220.7V I:0.0550A P:10.49W PF:0.8640 Lamp Flux:768.425x1 lm		
NAME: FF3-FS1-9W-840-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.28 lm/W			
MODEL	CREE-4000K	I _{max} (cd)	1829	S/MH(C0/180)	0.59
NOMINAL POWER(W)	11.0	LOR(%)	100.0	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	768.42	η UP,DN(C0-180)	0.0,50.6
NOMINAL FLUX(lm)	768.425	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.4
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)



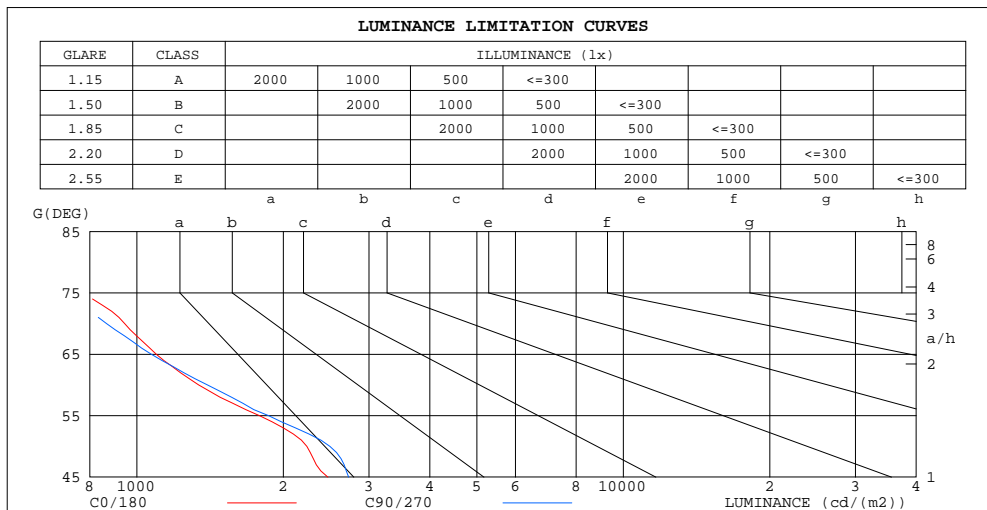
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-06-10

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:

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	1581	1572	1532	1514	1518	1491	1513	1509	0- 10	157.7	157.7	20.5,20.5
20	1008	976.0	857.5	803.7	801.6	799.5	877.5	930.7	10- 20	337.1	494.8	64.4,64.4
30	232.2	207.3	158.3	129.6	124.7	123.0	164.9	208.4	20- 30	212.7	707.5	92.1,92.1
40	23.21	22.74	20.07	19.15	18.66	17.14	18.85	20.50	30- 40	39.04	746.5	97.2,97.2
50	9.833	10.31	10.97	10.88	11.00	10.72	10.55	9.231	40- 50	10.31	756.8	98.5,98.5
60	4.582	4.737	4.777	5.007	5.877	5.654	4.993	4.365	50- 60	6.725	763.6	99.4,99.4
70	2.208	2.183	2.027	1.933	2.048	1.980	1.997	1.984	60- 70	3.245	766.8	99.8,99.8
80	0.7355	0.7318	0.6437	0.6115	0.4780	0.5997	0.6442	0.6981	70- 80	1.279	768.1	100,100
90	0.0809	0.0481	0.0394	0.0503	0.0262	0.0459	0.0306	0.0481	80- 90	0.3258	768.4	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		



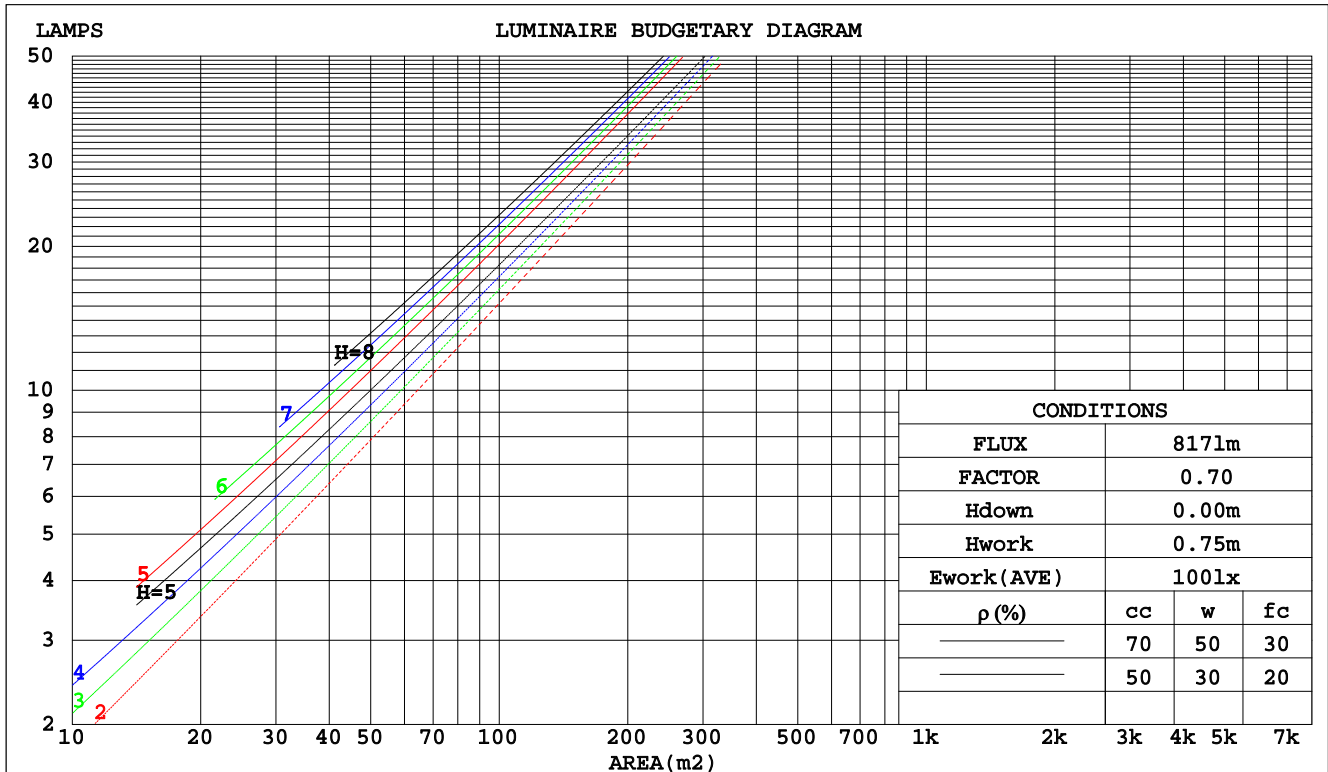
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: FF3-FS1-9W-840-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
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	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.00	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	.91	.94	.92	.89	.92	.90	.88	.87
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.82	.88	.85	.82	.87	.84	.81	.85	.83	.80	.79
6.0	.87	.82	.79	.86	.82	.78	.85	.81	.78	.84	.80	.77	.82	.79	.77	.76
7.0	.83	.78	.75	.83	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.73
8.0	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.77	.73	.71	.70
9.0	.77	.72	.69	.76	.72	.69	.75	.71	.68	.75	.71	.68	.74	.70	.68	.67
10.0	.74	.69	.66	.73	.69	.66	.73	.69	.66	.72	.68	.66	.71	.68	.65	.64



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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	.154	.087	.028	.147	.084	.027	.135	.077	.025	.123	.071	.023	.113	.065	.021		
2.0	.144	.079	.024	.139	.076	.024	.128	.071	.022	.119	.067	.021	.110	.062	.020		
3.0	.136	.072	.022	.131	.070	.021	.122	.066	.020	.114	.063	.019	.107	.059	.018		
4.0	.128	.067	.020	.124	.065	.019	.117	.062	.018	.110	.059	.018	.103	.056	.017		
5.0	.121	.062	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017	.100	.053	.016		
6.0	.115	.058	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015		
7.0	.110	.054	.015	.108	.054	.015	.103	.052	.015	.098	.050	.015	.094	.049	.014		
8.0	.105	.051	.014	.103	.051	.014	.099	.049	.014	.095	.048	.014	.091	.047	.014		
9.0	.101	.049	.014	.099	.048	.014	.095	.047	.013	.091	.046	.013	.088	.045	.013		
10.0	.097	.046	.013	.095	.046	.013	.092	.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	.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	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.102	.069	.045	.088	.059	.039	.061	.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	.012	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.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

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SPEC.:4000K					DIM.: L153mm*W45mm*H60mm					
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	9.1	9.8	9.3	10.0	10.2	8.0	8.7	8.2	8.9	9.0
3H	9.2	9.9	9.4	10.1	10.3	8.1	8.8	8.3	9.0	9.2
4H	9.2	9.8	9.4	10.1	10.3	8.1	8.8	8.4	9.0	9.2
6H	9.2	9.8	9.4	10.0	10.3	8.1	8.7	8.4	9.0	9.2
8H	9.1	9.7	9.4	10.0	10.2	8.1	8.7	8.4	9.0	9.2
12H	9.1	9.7	9.4	10.0	10.2	8.1	8.7	8.4	8.9	9.2
4H 2H	9.0	9.7	9.3	9.9	10.1	7.9	8.6	8.2	8.8	9.0
3H	9.1	9.7	9.5	10.0	10.3	8.2	8.7	8.5	9.0	9.3
4H	9.2	9.7	9.5	10.0	10.3	8.2	8.7	8.6	9.0	9.3
6H	9.2	9.7	9.6	10.0	10.3	8.2	8.7	8.6	9.0	9.4
8H	9.2	9.6	9.6	10.0	10.3	8.2	8.7	8.6	9.0	9.4
12H	9.2	9.6	9.6	9.9	10.3	8.2	8.6	8.6	9.0	9.4
8H 4H	9.1	9.6	9.5	9.9	10.3	8.2	8.6	8.5	8.9	9.3
6H	9.1	9.5	9.6	9.9	10.3	8.2	8.6	8.6	9.0	9.4
8H	9.2	9.5	9.6	9.9	10.3	8.2	8.5	8.7	9.0	9.4
12H	9.2	9.4	9.6	9.9	10.3	8.2	8.5	8.7	8.9	9.4
12H 4H	9.1	9.5	9.5	9.8	10.2	8.1	8.5	8.5	8.9	9.3
6H	9.1	9.4	9.6	9.8	10.3	8.2	8.5	8.6	8.9	9.4
8H	9.1	9.4	9.6	9.8	10.3	8.2	8.5	8.7	8.9	9.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 1.9					+ 1.4 / - 1.6				
1.5H	+ 3.3 / - 1.3					+ 2.2 / - 1.2				
2.0H	+ 1.2 / - 1.4					+ 1.4 / - 1.7				

CIE Pub.117 Corrected 768.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.9)

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0550A P:10.49W PF:0.8640 Lamp Flux:768.425x1 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) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	84	80	89	83	80	77
0.80	97	91	88	96	91	88	95	91	87	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	100	98	94
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	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):

752.21 lm

%lum = 97.9%

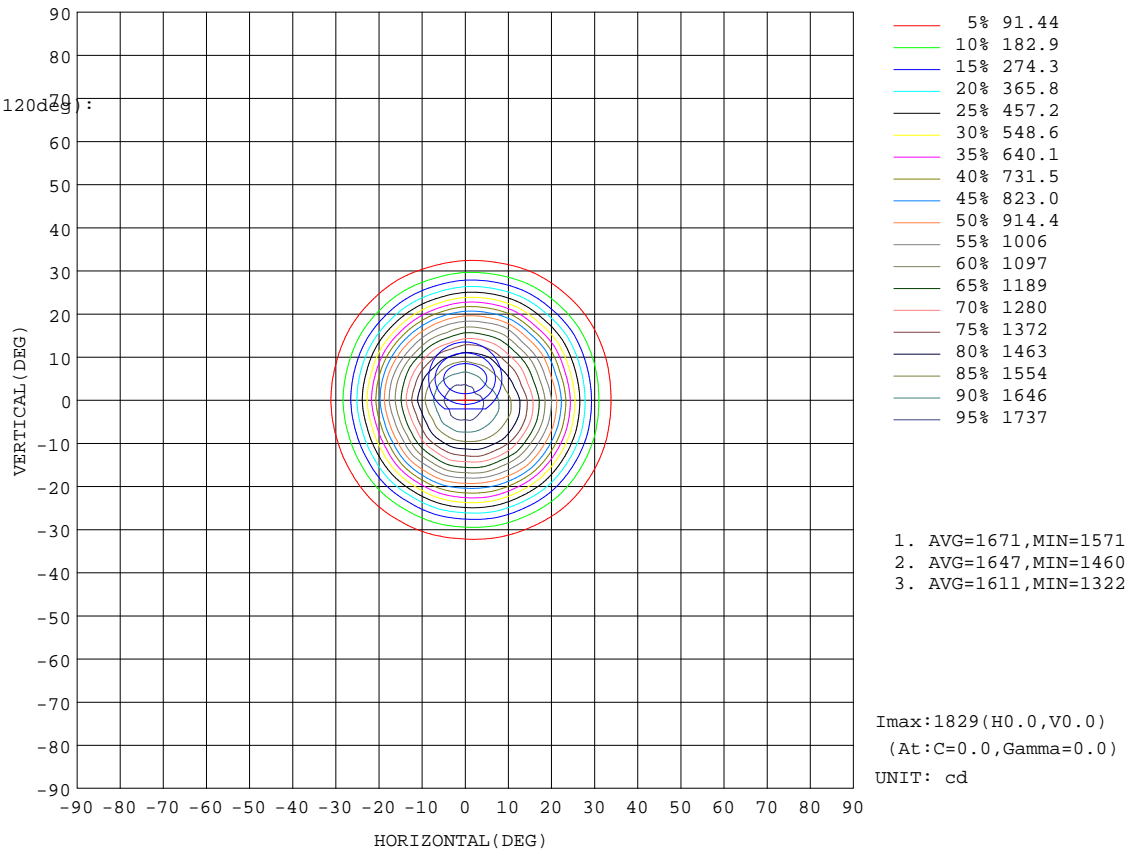
%lamp = 97.9%

Conical surface Flux(120deg):

763.57 lm

%lum = 99.4%

%lamp = 99.4%

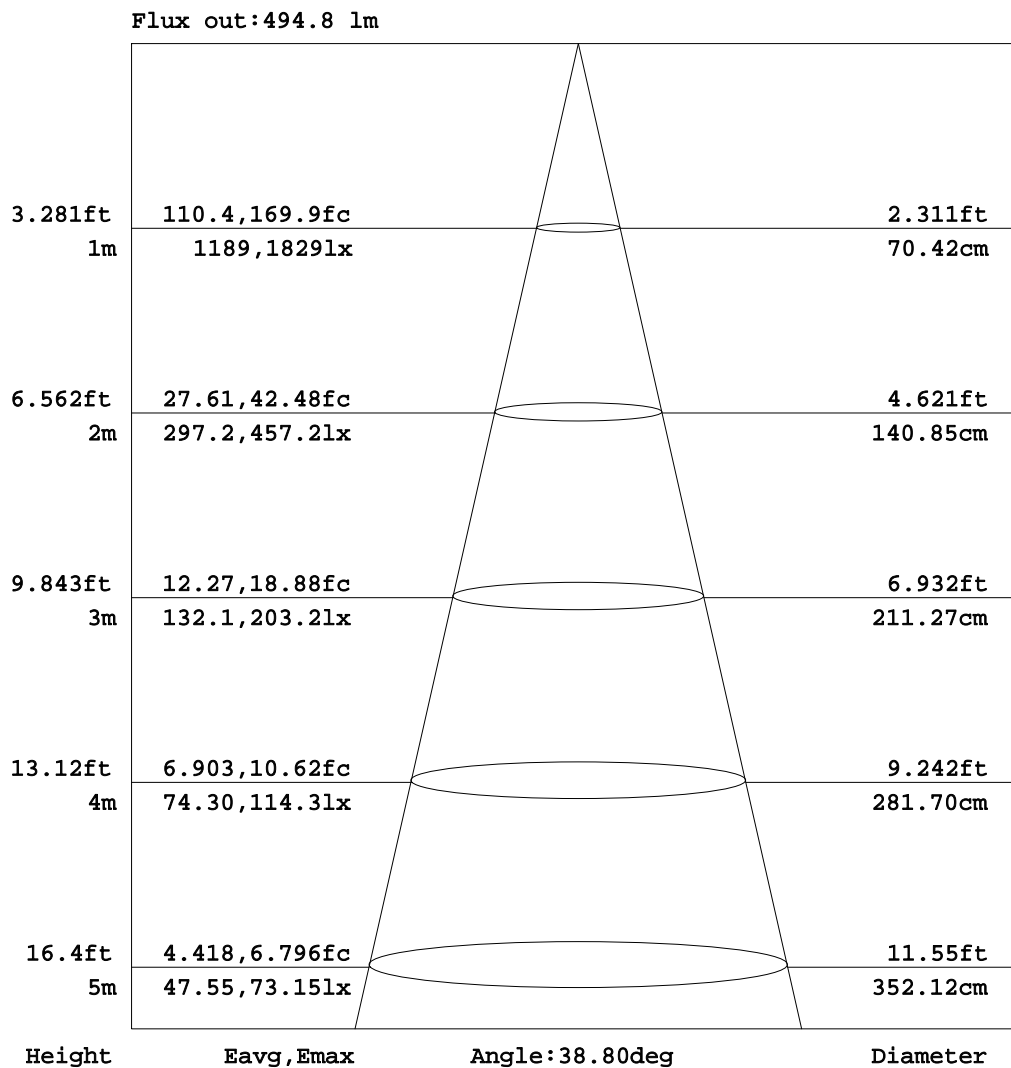


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AAI Figure

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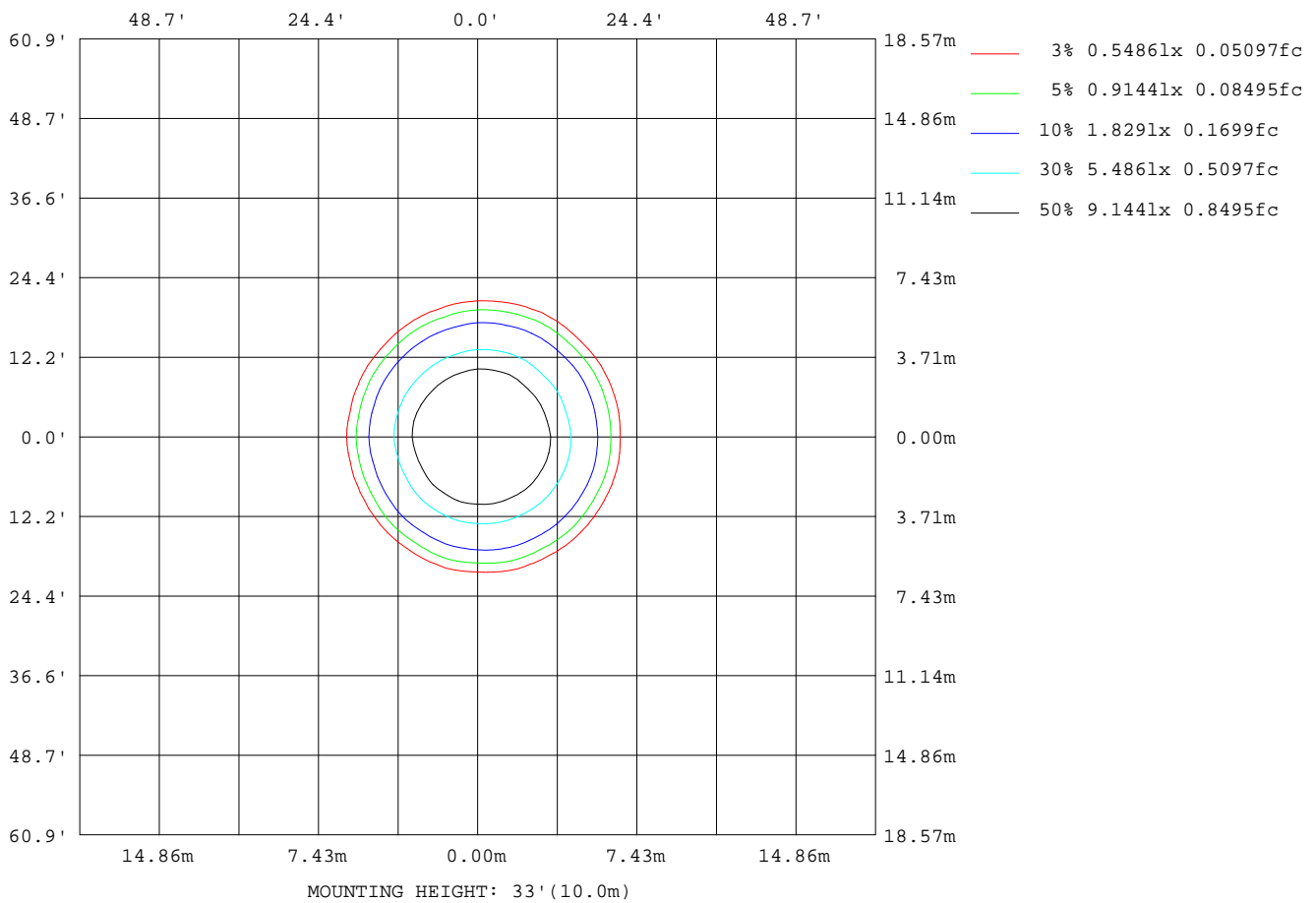
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

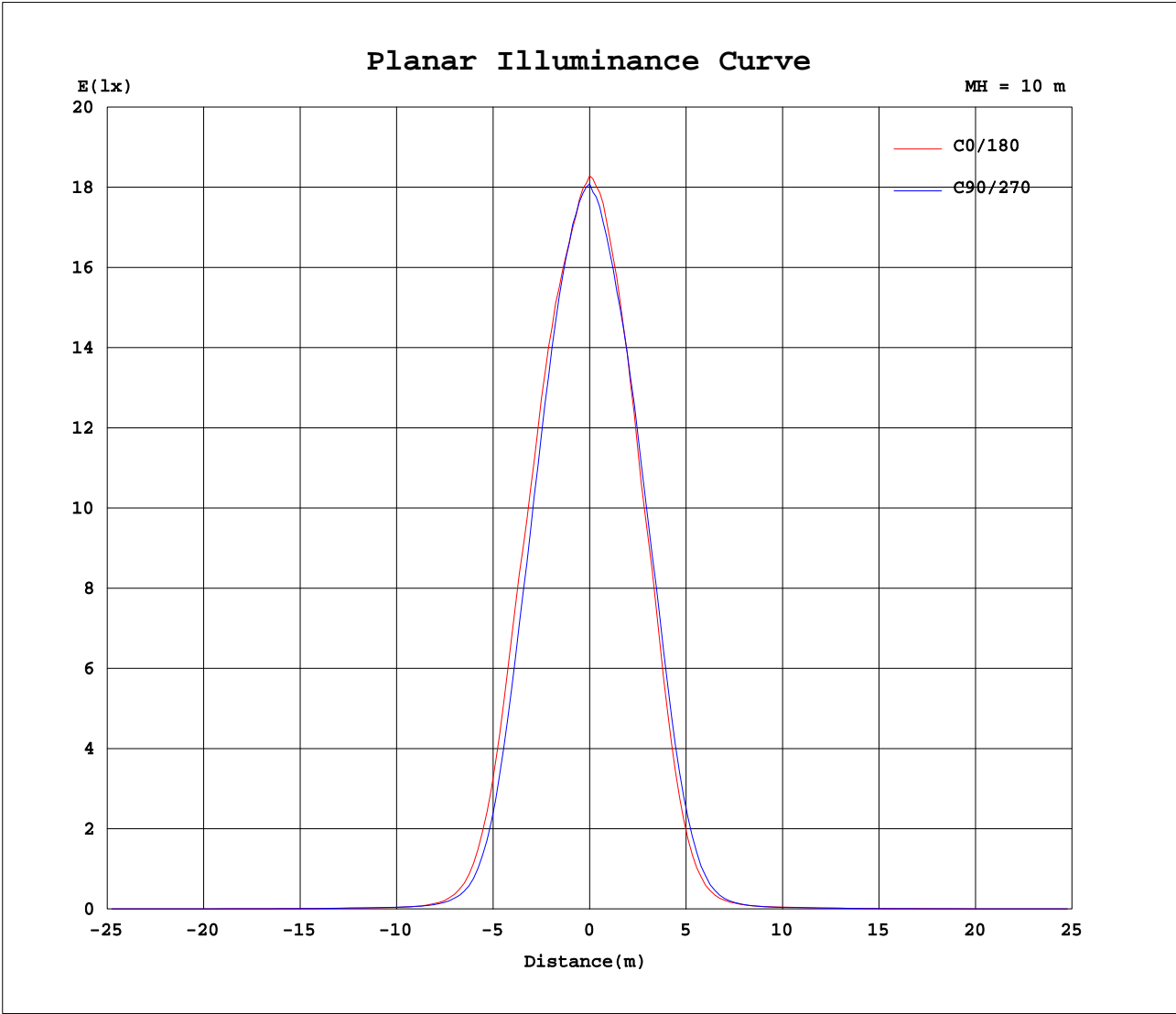
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Planar Illuminance Curve



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Table--1

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: 2017-06-10

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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	1829	1825	1820	1815	1820	1809	1809	1801	1798	1793
3.0	1777	1775	1777	1783	1787	1783	1771	1778	1780	1770
6.0	1691	1691	1697	1696	1700	1698	1688	1699	1699	1708
9.0	1607	1617	1611	1611	1602	1590	1583	1581	1569	1562
12.0	1500	1503	1496	1493	1465	1453	1420	1425	1404	1396
15.0	1329	1341	1324	1311	1285	1259	1225	1224	1187	1181
18.0	1130	1138	1108	1095	1062	1039	1004	1008	975.6	978.1
21.0	932.1	932.2	904.4	891.2	844.9	808.0	772.9	756.9	725.4	714.2
24.0	673.2	672.0	646.6	621.8	581.7	557.9	525.9	505.0	472.4	455.6
27.0	421.3	421.7	400.3	386.1	354.7	340.0	307.1	292.5	265.2	257.5
30.0	232.2	232.7	218.4	207.3	186.9	176.9	158.3	155.4	132.7	129.6
33.0	109.1	108.9	101.4	96.60	87.59	82.82	75.59	71.07	66.17	61.55
36.0	53.54	53.23	51.78	47.51	43.18	41.68	38.78	37.29	35.31	34.36
39.0	28.33	28.97	28.19	27.50	25.93	25.05	23.33	23.03	21.94	21.69
42.0	16.09	16.34	16.33	16.53	16.22	16.39	16.09	16.21	15.99	15.73
45.0	11.94	12.19	12.21	12.50	12.63	13.08	13.18	13.42	13.44	13.57
48.0	10.55	10.79	10.87	11.05	11.38	11.90	12.03	12.13	12.08	12.11
51.0	9.381	9.580	9.631	9.842	10.05	10.33	10.28	10.23	10.08	10.17
54.0	7.620	7.816	7.811	7.951	7.947	8.110	7.961	8.052	8.025	8.177
57.0	5.868	5.993	5.996	6.070	6.002	6.120	6.158	6.262	6.292	6.509
60.0	4.582	4.643	4.657	4.737	4.676	4.783	4.777	4.798	4.826	5.007
63.0	3.670	3.727	3.712	3.736	3.636	3.716	3.686	3.640	3.658	3.757
66.0	2.958	2.994	2.980	2.963	2.880	2.941	2.845	2.795	2.789	2.836
69.0	2.374	2.412	2.394	2.364	2.296	2.290	2.211	2.150	2.112	2.143
72.0	1.876	1.881	1.887	1.844	1.773	1.783	1.690	1.621	1.565	1.583
75.0	1.368	1.378	1.410	1.276	1.162	1.141	1.086	1.073	1.044	1.051
78.0	0.8997	0.9110	0.9039	0.8958	0.8668	0.8498	0.8056	0.7908	0.7750	0.7799
81.0	0.6611	0.6662	0.6677	0.6553	0.6240	0.5940	0.5584	0.5415	0.5191	0.5284
84.0	0.4141	0.4497	0.4448	0.4300	0.3923	0.3666	0.3267	0.3097	0.2874	0.2923
87.0	0.2325	0.2422	0.2304	0.2116	0.1866	0.1504	0.1297	0.0980	0.0969	0.0828
90.0	0.0809	0.0722	0.0656	0.0481	0.0437	0.0372	0.0394	0.0394	0.0503	0.0503
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1789	1817	1829	1820	1820	1815	1820	1809	1809	1801
3.0	1761	1785	1794	1777	1773	1768	1765	1760	1758	1746
6.0	1680	1691	1699	1688	1683	1677	1672	1659	1664	1654
9.0	1541	1555	1572	1567	1551	1542	1552	1554	1555	1545
12.0	1364	1360	1400	1378	1384	1379	1393	1390	1415	1429
15.0	1153	1153	1179	1171	1183	1171	1184	1191	1232	1248
18.0	941.5	942.6	981.7	979.4	964.3	965.9	979.3	1002	1025	1041
21.0	672.0	671.3	705.4	700.8	706.6	706.2	725.1	748.6	789.9	817.7
24.0	431.1	422.9	448.4	438.7	452.0	454.7	473.4	493.9	533.6	562.0
27.0	238.8	234.4	247.3	244.3	253.5	257.9	276.5	293.2	323.2	343.0
30.0	115.0	113.9	124.7	116.4	125.7	123.0	140.4	145.1	164.9	178.5
33.0	59.30	56.54	58.93	59.78	59.49	59.29	65.76	70.52	79.17	84.93
36.0	32.52	32.37	33.07	32.25	32.27	31.82	33.51	34.67	38.37	40.68
39.0	21.02	20.79	21.29	20.73	20.24	19.57	20.13	20.57	22.05	23.18
42.0	15.56	15.37	15.79	15.48	15.12	14.48	14.53	14.41	14.75	14.77
45.0	13.50	13.30	13.72	13.47	13.07	12.69	12.54	12.25	12.22	11.89
48.0	11.96	11.81	12.16	11.99	11.88	11.66	11.67	11.43	11.29	10.83
51.0	10.01	9.899	10.39	10.21	10.17	10.14	10.21	10.09	10.04	9.577
54.0	8.150	8.211	8.913	8.824	8.716	8.593	8.522	8.290	8.145	7.757
57.0	6.567	6.868	7.439	7.493	7.580	7.160	6.976	6.653	6.449	6.063
60.0	5.086	5.344	5.877	5.958	6.076	5.654	5.469	5.159	4.993	4.693
63.0	3.755	3.982	4.330	4.426	4.445	4.172	4.044	3.869	3.756	3.569
66.0	2.793	2.901	3.121	3.176	3.112	3.003	2.933	2.873	2.840	2.759
69.0	2.055	2.117	2.299	2.245	2.219	2.195	2.149	2.160	2.191	2.159
72.0	1.472	1.503	1.536	1.559	1.596	1.578	1.577	1.617	1.688	1.683
75.0	1.009	0.9264	0.9000	0.9629	1.016	1.002	1.018	1.016	1.062	1.081
78.0	0.7444	0.6837	0.6506	0.7178	0.7556	0.7615	0.7710	0.7790	0.8038	0.8206
81.0	0.5059	0.4586	0.4080	0.4816	0.5260	0.5232	0.5348	0.5472	0.5698	0.5888
84.0	0.2742	0.2530	0.2092	0.2696	0.2964	0.2981	0.3162	0.3265	0.3555	0.3702
87.0	0.0903	0.0655	0.0501	0.0836	0.0827	0.1077	0.1110	0.1404	0.1547	0.1842
90.0	0.0568	0.0568	0.0262	0.0481	0.0437	0.0459	0.0372	0.0372	0.0306	0.0372
G/C	300.0	315.0	330.0	345.0						
0.0	1798	1793	1789	1817						
3.0	1754	1735	1733	1766						
6.0	1654	1645	1645	1670						
9.0	1555	1557	1563	1577						
12.0	1432	1418	1432	1447						
15.0	1259	1247	1274	1277						
18.0	1073	1051	1085	1089						
21.0	860.7	858.1	889.7	881.9						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-06-10

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	595.1	597.5	639.4	637.3
27.0	370.9	380.6	407.5	408.6
30.0	199.2	208.4	226.8	230.4
33.0	94.87	97.50	106.3	110.3
36.0	45.02	46.09	51.03	55.86
39.0	25.53	25.86	27.23	28.32
42.0	14.91	14.83	15.47	15.79
45.0	11.56	11.15	11.33	11.42
48.0	10.36	9.946	9.914	9.977
51.0	9.257	8.841	8.863	8.829
54.0	7.513	7.244	7.349	7.305
57.0	5.837	5.610	5.659	5.632
60.0	4.572	4.365	4.435	4.402
63.0	3.534	3.418	3.491	3.521
66.0	2.783	2.709	2.810	2.844
69.0	2.180	2.153	2.276	2.267
72.0	1.697	1.674	1.789	1.779
75.0	1.214	1.176	1.286	1.315
78.0	0.8453	0.8490	0.8803	0.8884
81.0	0.6157	0.6172	0.6507	0.6609
84.0	0.4015	0.4030	0.4364	0.4445
87.0	0.1983	0.2017	0.2245	0.2433
90.0	0.0372	0.0481	0.0547	0.0765

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C Interval: 15.0DEG
Test Speed: HIGH
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Operators: Meng Yongjian
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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: