
LED Downlight FUSION Series LE-
FS3-7W-930-30D



Light Output Ratio:	100.0%	
Luminaire Power:	8.05 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-09

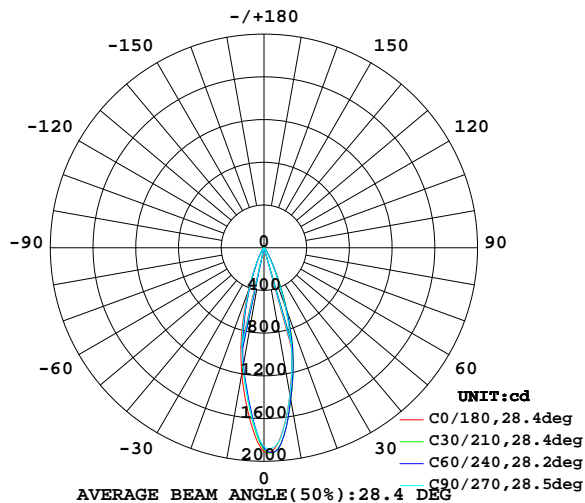
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

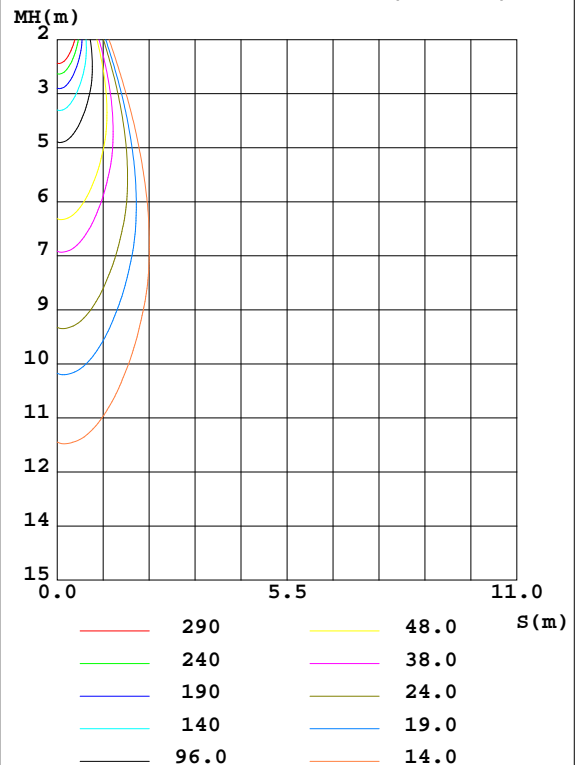
Test:U:220.7V I:0.0449A P:8.050W PF:0.8125 Lamp Flux:560.76x1 lm		
NAME: FS3-7W-930-30D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L152mm*W45mm*H60mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.66 lm/W			
MODEL	CREE-3000K	Imax(cd)	1926	S/MH(C0/180)	0.44
NOMINAL POWER(W)	9.0	LOR(%)	100.0	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	560.76	η UP,DN(C0-180)	0.0,54.7
NOMINAL FLUX(lm)	560.76	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,45.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



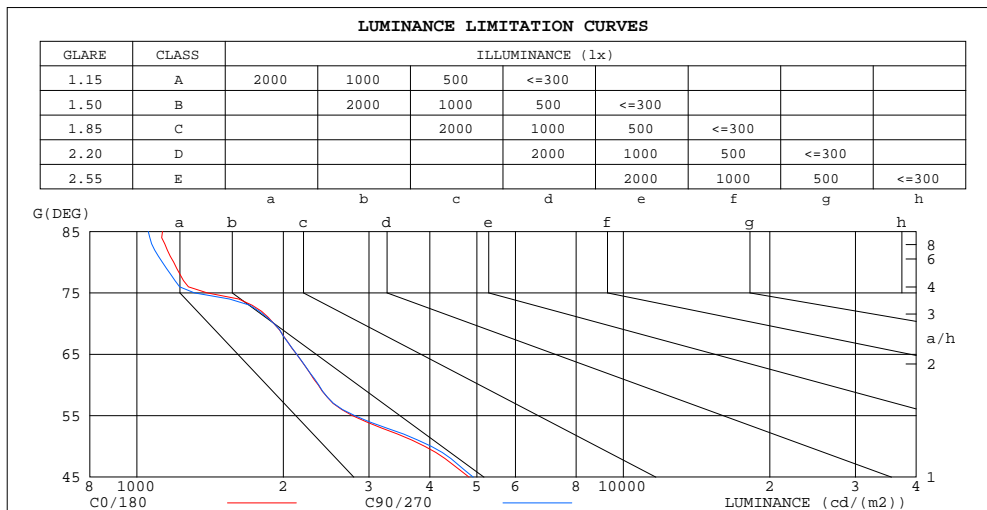
C Range: 0 - 360DEG
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 Temperature:25.3DEG
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γ Range: 0 - 90DEG
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [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	$\%lum, lamp$
10	1398	1462	1399	1287	1200	1105	1138	1229	0- 10	145.3	145.3	25.9,25.9
20	592.6	644.7	579.6	485.9	422.3	372.1	410.7	475.2	10- 20	238.3	383.6	68.4,68.4
30	120.1	117.1	106.1	95.09	84.84	75.44	84.87	98.68	20- 30	110.0	493.5	88,88
40	32.38	34.96	32.45	29.31	26.66	23.95	24.78	27.17	30- 40	32.28	525.8	93.8,93.8
50	17.19	18.36	17.72	15.97	14.42	13.17	13.66	14.43	40- 50	16.69	542.5	96.7,96.7
60	8.068	8.486	8.085	7.463	7.513	7.000	7.123	7.207	50- 60	9.455	552.0	98.4,98.4
70	4.475	4.626	4.479	4.038	3.785	3.573	3.733	3.910	60- 70	5.697	557.7	99.4,99.4
80	1.414	1.437	1.340	1.201	1.083	1.022	1.096	1.221	70- 80	2.505	560.2	99.9,99.9
90	0.0656	0.0918	0.0525	0.0262	0.0219	0.0241	0.0241	0.0262	80- 90	0.5987	560.8	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		



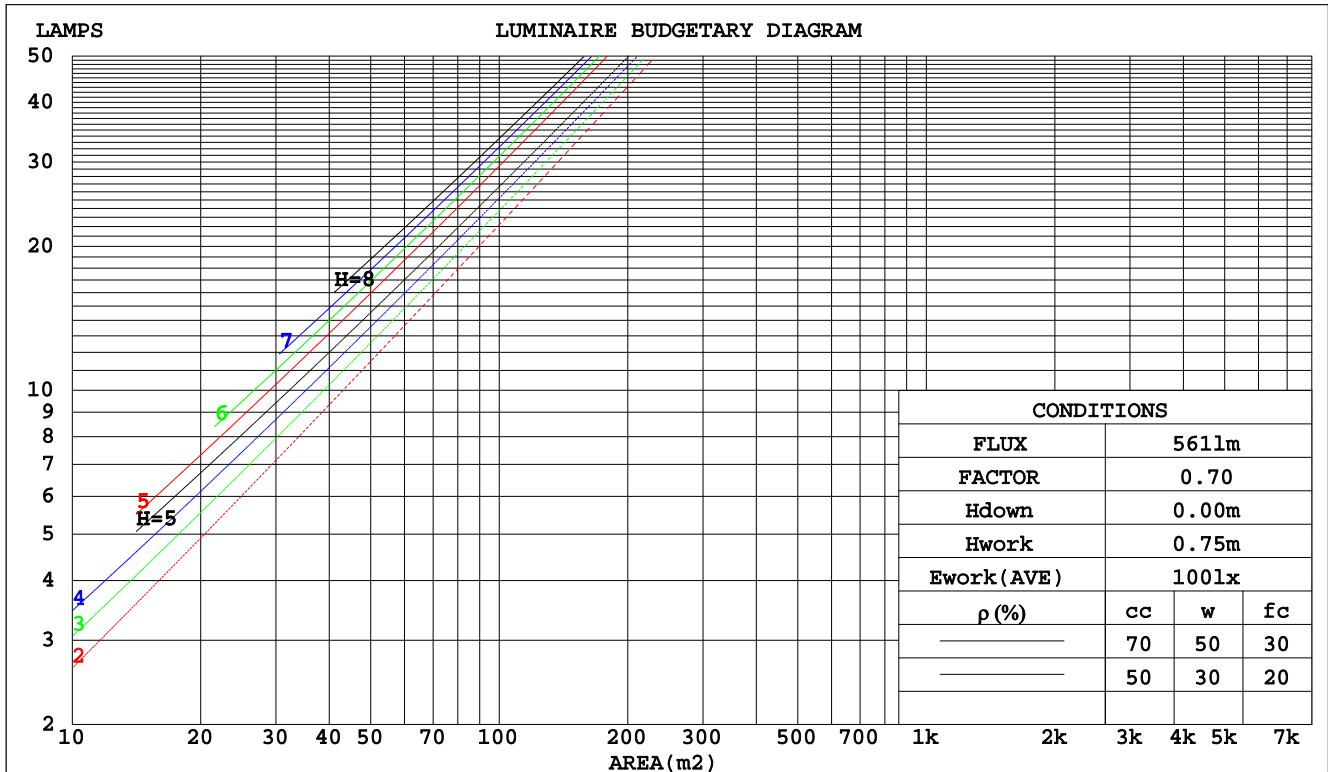
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0449A P:8.050W PF:0.8125 Lamp Flux:560.76x1 lm		
NAME: FS3-7W-930-30D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L152mm*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	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	.90	.88	.86
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	.79	.85	.81	.78	.84	.80	.78	.83	.79	.77	.76
7.0	.84	.79	.75	.83	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
8.0	.80	.76	.72	.80	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.70
9.0	.78	.73	.70	.77	.73	.70	.76	.72	.69	.75	.72	.69	.75	.71	.69	.68
10.0	.75	.70	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.72	.69	.67	.66



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WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.156	.089	.028	.149	.085	.027	.137	.078	.025	.125	.072	.023	.115	.067	.021	
2.0	.146	.080	.025	.141	.077	.024	.130	.072	.022	.121	.068	.021	.112	.063	.020	
3.0	.137	.073	.022	.132	.071	.021	.123	.067	.020	.115	.063	.019	.108	.060	.018	
4.0	.129	.067	.020	.125	.065	.019	.117	.062	.019	.110	.059	.018	.104	.056	.017	
5.0	.121	.062	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017	.100	.053	.016	
6.0	.115	.058	.016	.112	.057	.016	.106	.055	.016	.101	.053	.015	.096	.051	.015	
7.0	.109	.054	.015	.106	.053	.015	.102	.051	.015	.097	.050	.014	.093	.048	.014	
8.0	.104	.051	.014	.102	.050	.014	.097	.049	.014	.093	.047	.014	.090	.046	.013	
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013	.086	.044	.013	
10.0	.095	.046	.013	.093	.045	.013	.090	.044	.012	.087	.043	.012	.084	.042	.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	.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	.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	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.056	.034	.077	.049	.030	.054	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.019	.030	.019	.011	.010	.006	.004	

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 γ Interval: 1.0DEG
 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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NAME: FS3-7W-930-30D					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					DIM.: L152mm*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	11.2	11.9	11.4	12.1	12.2	11.1	11.8	11.3	12.0	12.1
3H	11.7	12.4	11.9	12.6	12.8	11.6	12.3	11.8	12.5	12.7
4H	11.9	12.5	12.1	12.7	13.0	11.7	12.4	12.0	12.6	12.8
6H	11.9	12.6	12.2	12.8	13.0	11.8	12.4	12.1	12.7	12.9
8H	11.9	12.5	12.2	12.8	13.1	11.8	12.4	12.1	12.7	12.9
12H	11.9	12.5	12.2	12.8	13.1	11.8	12.4	12.1	12.7	12.9
4H 2H	11.3	12.0	11.6	12.2	12.4	11.2	11.9	11.5	12.1	12.3
3H	12.0	12.6	12.3	12.9	13.1	11.9	12.5	12.2	12.8	13.0
4H	12.3	12.8	12.6	13.1	13.4	12.1	12.7	12.5	13.0	13.3
6H	12.4	12.9	12.7	13.2	13.5	12.3	12.7	12.6	13.1	13.4
8H	12.4	12.9	12.8	13.2	13.6	12.3	12.7	12.7	13.1	13.4
12H	12.4	12.8	12.8	13.2	13.6	12.3	12.7	12.7	13.1	13.5
8H 4H	12.3	12.7	12.7	13.1	13.4	12.2	12.6	12.6	13.0	13.3
6H	12.5	12.8	12.9	13.2	13.6	12.3	12.7	12.8	13.1	13.5
8H	12.5	12.9	13.0	13.3	13.7	12.4	12.7	12.9	13.2	13.6
12H	12.6	12.9	13.1	13.3	13.8	12.5	12.7	12.9	13.2	13.7
12H 4H	12.2	12.6	12.6	13.0	13.4	12.1	12.6	12.5	12.9	13.3
6H	12.4	12.8	12.9	13.2	13.6	12.3	12.7	12.8	13.1	13.5
8H	12.5	12.8	13.0	13.3	13.7	12.4	12.7	12.9	13.1	13.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.1					+ 0.8 / - 1.1				
1.5H	+ 1.1 / - 0.8					+ 0.9 / - 0.9				
2.0H	+ 1.6 / - 1.2					+ 1.7 / - 1.2				

CIE Pub.117 Corrected 560.8 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.0)

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UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0449A P:8.050W PF:0.8125 Lamp Flux:560.76x1 lm		
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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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	78	87	81	78	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	95	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	109	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	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):

535 lm

%lum = 95.4%

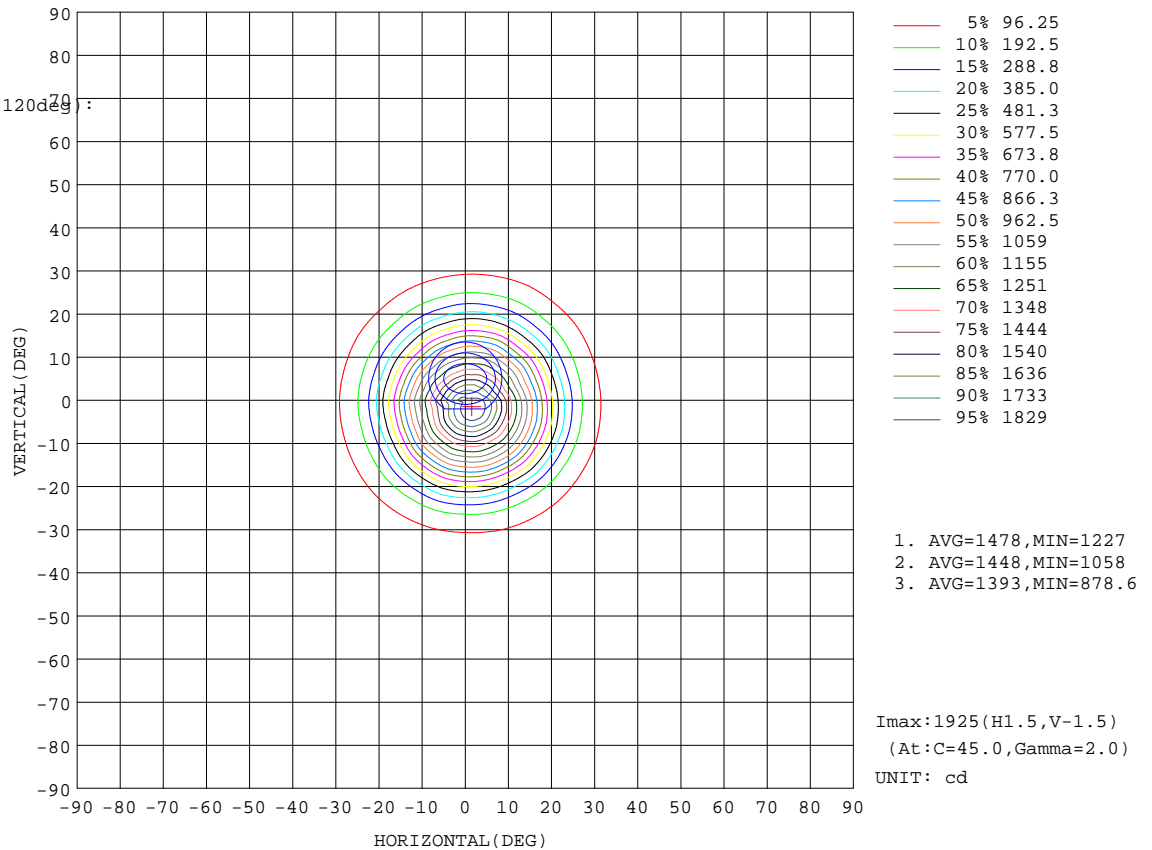
%lamp = 95.4%

Conical surface Flux(120deg):

551.96 lm

%lum = 98.4%

%lamp = 98.4%

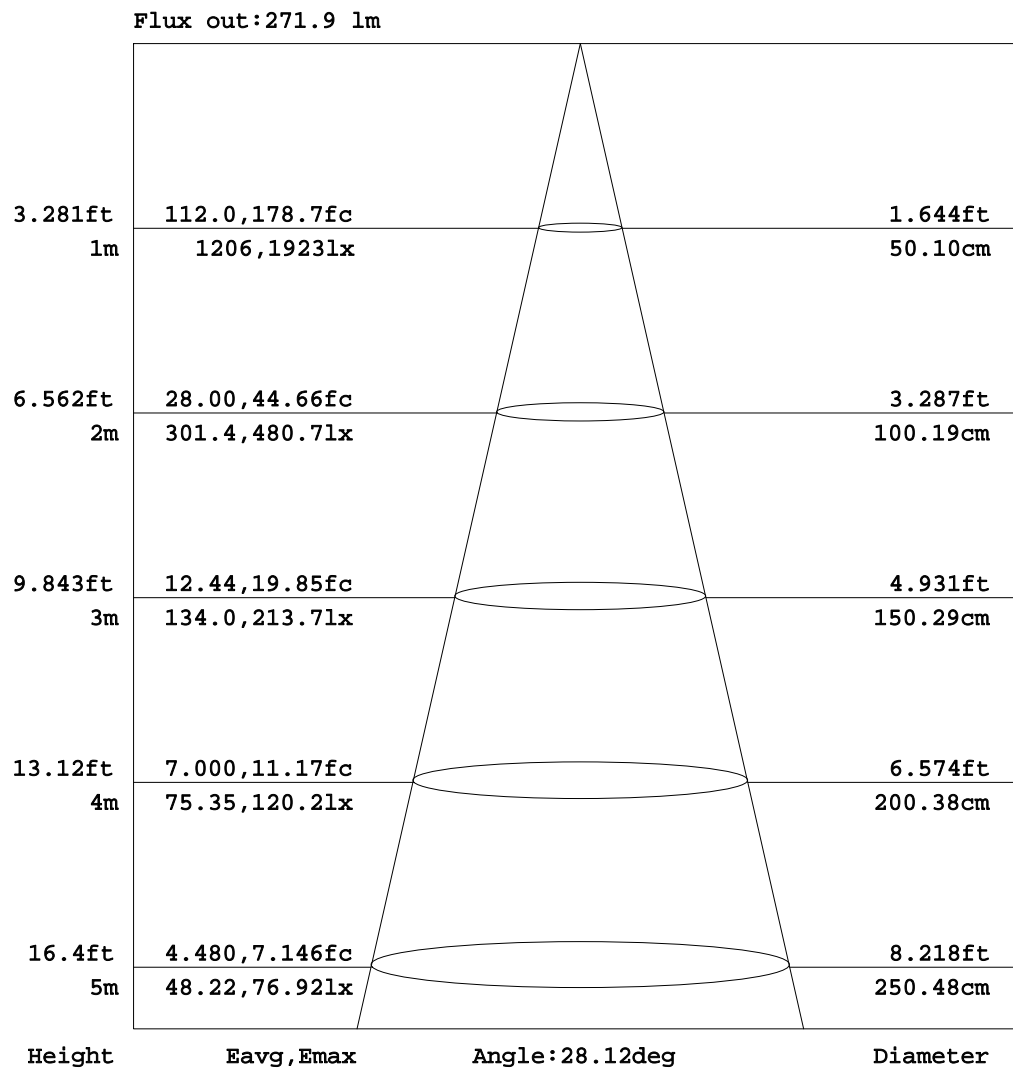


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AAI Figure

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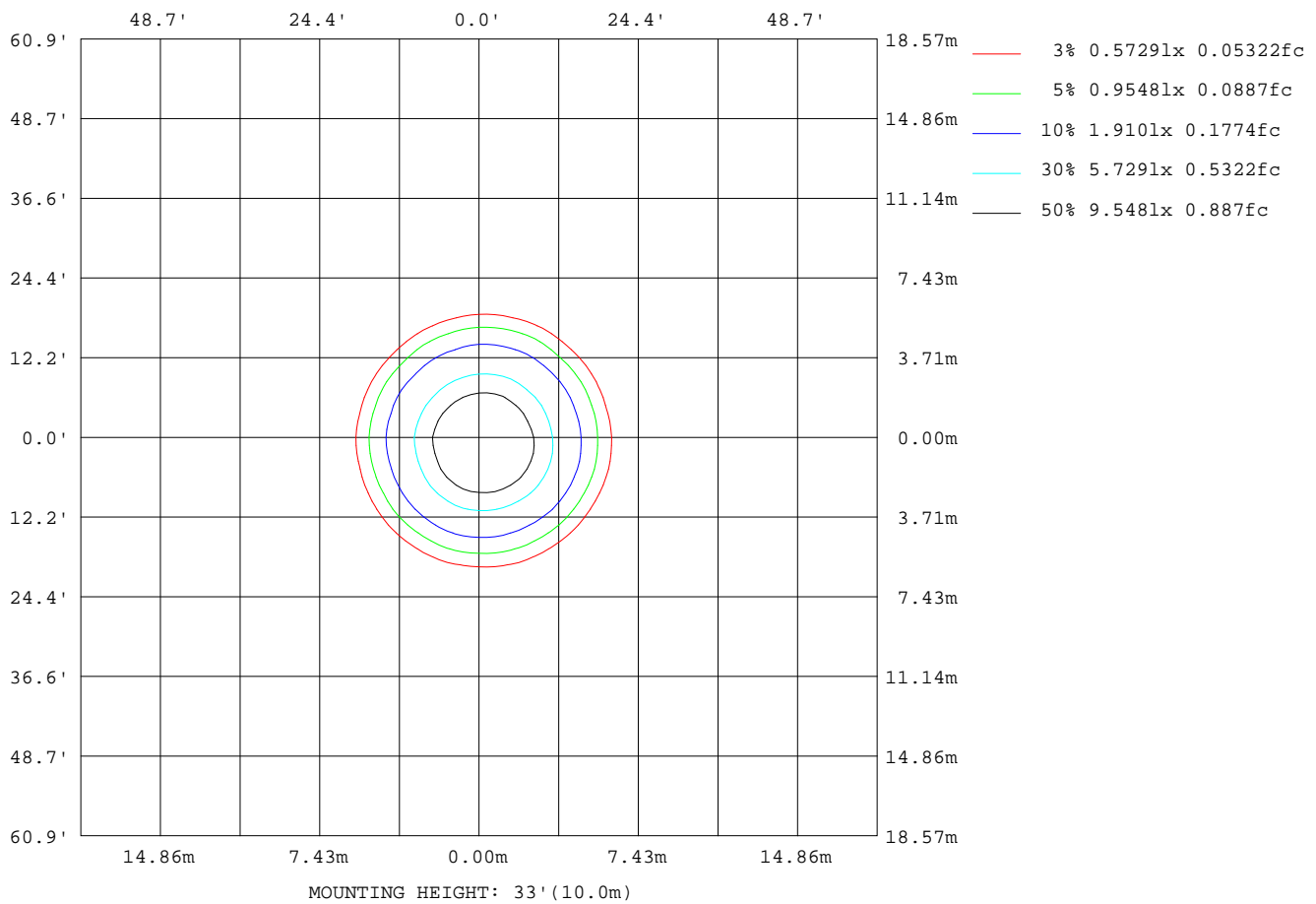
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

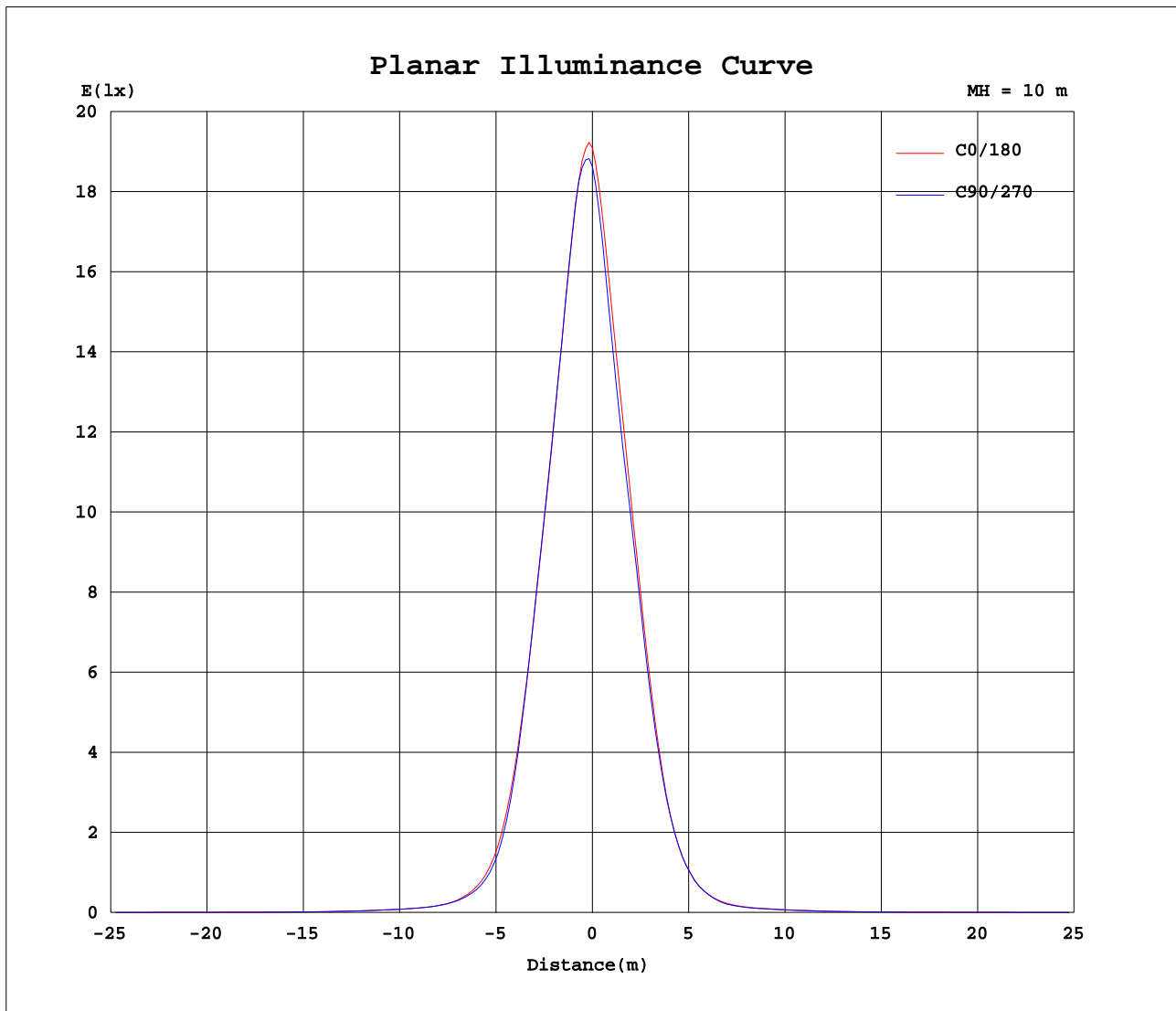
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Planar Illuminance Curve



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UNIT: cd

[illegible]

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Table--2

UNIT: cd

[illegible]

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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	1910	1896	1891	1878	1877	1865	1863	1853	1846	1831
3.0	1885	1904	1915	1920	1914	1897	1868	1838	1802	1767
6.0	1714	1759	1775	1795	1775	1759	1719	1692	1643	1593
9.0	1477	1519	1530	1545	1526	1518	1478	1457	1405	1367
12.0	1233	1273	1291	1302	1282	1273	1240	1220	1167	1138
15.0	996.0	1039	1058	1070	1051	1035	1002	985.1	934.5	901.8
18.0	748.8	797.2	809.5	819.7	788.5	771.9	748.0	729.0	683.3	645.3
21.0	517.2	552.6	558.3	560.6	528.3	513.5	498.3	485.8	445.4	416.4
24.0	328.5	347.1	351.2	346.4	318.6	313.4	301.9	297.2	270.0	251.8
27.0	196.6	205.4	204.1	199.0	189.3	183.2	174.5	171.5	158.3	152.2
30.0	120.1	122.3	119.0	117.1	114.6	112.6	106.1	104.3	99.20	95.09
33.0	75.91	78.54	78.12	77.62	75.30	74.06	70.41	68.67	64.32	61.00
36.0	49.92	51.85	53.25	53.14	51.13	50.11	47.93	46.68	43.66	42.32
39.0	35.65	37.30	37.60	37.89	36.72	36.12	35.13	34.42	32.83	31.58
42.0	27.93	29.31	29.65	30.16	29.52	29.13	28.20	27.59	26.80	26.02
45.0	23.31	24.22	24.40	25.03	24.70	24.42	23.76	23.05	22.62	21.93
48.0	19.69	20.35	20.36	20.83	20.82	20.79	20.24	19.52	19.08	18.46
51.0	15.84	16.45	16.66	17.02	16.96	16.99	16.29	15.73	15.00	14.56
54.0	11.90	12.53	12.64	12.76	12.65	12.60	12.07	11.71	11.10	10.88
57.0	9.422	9.876	9.821	9.876	9.820	9.675	9.444	9.254	8.783	8.690
60.0	8.068	8.372	8.420	8.486	8.388	8.300	8.085	7.968	7.532	7.463
63.0	6.899	7.019	7.185	7.272	7.068	7.111	6.901	6.766	6.483	6.362
66.0	5.792	5.949	6.050	6.034	5.892	5.933	5.800	5.754	5.507	5.391
69.0	4.811	4.978	4.932	4.958	4.842	4.860	4.818	4.680	4.401	4.398
72.0	3.815	3.930	3.883	3.946	3.872	3.786	3.774	3.644	3.374	3.368
75.0	2.471	2.757	2.724	2.792	2.598	2.548	2.325	2.185	2.092	2.060
78.0	1.745	1.781	1.780	1.781	1.749	1.722	1.670	1.625	1.565	1.527
81.0	1.252	1.278	1.283	1.280	1.259	1.227	1.184	1.133	1.090	1.050
84.0	0.8043	0.8252	0.8392	0.8318	0.8217	0.7881	0.7604	0.7071	0.6750	0.6307
87.0	0.4169	0.4276	0.4497	0.4364	0.4344	0.3992	0.3797	0.3249	0.3031	0.2637
90.0	0.0656	0.0656	0.0962	0.0918	0.0896	0.0678	0.0525	0.0306	0.0284	0.0262
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1827	1827	1910	1896	1891	1878	1877	1865	1863	1853
3.0	1724	1696	1745	1707	1692	1667	1668	1663	1662	1689
6.0	1527	1490	1512	1458	1438	1406	1410	1406	1436	1451
9.0	1305	1266	1279	1223	1209	1177	1183	1184	1205	1230
12.0	1070	1041	1041	994.9	975.9	954.3	964.2	967.4	995.8	1022
15.0	831.1	801.9	795.9	746.7	730.4	712.4	722.7	727.3	760.9	788.2
18.0	586.5	558.5	560.3	521.0	508.7	494.8	508.0	509.2	536.9	563.8
21.0	374.0	358.5	361.7	337.8	329.3	319.0	327.7	332.3	353.9	374.6
24.0	232.4	221.6	221.9	209.2	205.6	195.5	202.4	206.3	223.6	233.6
27.0	141.9	138.8	138.1	129.1	127.7	120.6	127.0	128.3	138.6	145.9
30.0	88.94	85.35	84.84	79.64	78.17	75.44	77.29	79.24	84.87	88.99
33.0	57.06	53.86	54.22	50.52	48.90	46.73	48.22	48.44	51.74	53.73
36.0	38.81	36.76	36.71	34.48	32.99	31.94	32.21	32.47	34.03	35.10
39.0	30.05	28.50	28.43	27.17	26.25	25.52	25.64	25.66	26.46	27.01
42.0	24.79	23.94	24.08	22.94	22.24	21.60	21.94	22.08	22.30	22.61
45.0	20.98	20.37	20.54	19.46	19.06	18.70	19.12	19.24	19.20	19.38
48.0	17.51	16.85	17.08	16.10	15.88	15.64	15.95	16.05	16.14	16.28
51.0	13.63	12.99	13.17	12.45	12.24	11.95	12.15	12.16	12.47	12.68
54.0	10.30	9.966	10.20	9.756	9.587	9.478	9.469	9.456	9.728	9.811
57.0	8.480	8.285	8.654	8.379	8.256	8.194	8.197	8.130	8.289	8.312
60.0	7.189	7.059	7.513	7.229	7.160	7.000	6.994	6.993	7.123	7.183
63.0	6.063	6.055	6.340	6.051	6.019	5.898	5.930	5.926	6.081	6.103
66.0	5.100	5.037	5.172	5.019	4.971	4.872	4.920	4.911	5.045	5.080
69.0	4.188	4.007	4.129	3.941	3.958	3.899	3.941	3.927	4.059	4.098
72.0	3.181	3.048	3.049	2.844	2.829	2.792	2.855	2.829	2.987	3.104
75.0	1.953	1.886	1.916	1.858	1.844	1.821	1.841	1.858	1.901	1.943
78.0	1.449	1.387	1.400	1.353	1.334	1.324	1.339	1.364	1.404	1.451
81.0	0.9855	0.9258	0.9297	0.8976	0.8795	0.8800	0.8861	0.9129	0.9494	0.9960
84.0	0.5854	0.5257	0.5166	0.4976	0.4773	0.4823	0.4839	0.5172	0.5428	0.5895
87.0	0.2244	0.1632	0.1411	0.1322	0.1041	0.1191	0.1150	0.1476	0.1650	0.2154
90.0	0.0284	0.0262	0.0219	0.0241	0.0241	0.0241	0.0241	0.0241	0.0241	0.0241
G/C	300.0	315.0	330.0	345.0						
0.0	1846	1831	1827	1827						
3.0	1711	1723	1758	1782						
6.0	1495	1524	1574	1609						
9.0	1277	1303	1350	1381						
12.0	1063	1075	1124	1148						
15.0	835.8	850.1	903.7	927.6						
18.0	597.3	620.4	671.6	696.0						
21.0	394.3	414.2	454.0	475.9						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-06-09

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	254.0	262.6	287.1	298.4
27.0	157.3	160.7	174.9	184.1
30.0	96.25	98.68	107.4	112.2
33.0	58.26	62.34	67.73	69.83
36.0	38.43	40.21	43.86	45.86
39.0	28.40	29.19	30.91	32.67
42.0	23.34	23.79	24.88	25.98
45.0	19.69	19.90	21.01	21.95
48.0	16.64	16.87	17.73	18.46
51.0	13.05	13.22	14.11	14.83
54.0	10.07	10.16	10.69	11.15
57.0	8.345	8.408	8.571	8.771
60.0	7.170	7.207	7.397	7.555
63.0	6.184	6.145	6.334	6.499
66.0	5.198	5.211	5.356	5.510
69.0	4.247	4.233	4.356	4.498
72.0	3.261	3.278	3.361	3.460
75.0	2.001	2.047	2.154	2.235
78.0	1.498	1.538	1.599	1.652
81.0	1.030	1.073	1.126	1.182
84.0	0.6150	0.6572	0.6981	0.7578
87.0	0.2349	0.2853	0.3180	0.3772
90.0	0.0219	0.0262	0.0241	0.0547

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-09

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: