

LED Downlight FUSION Series FA5-11W-830-40D Specular



Light Output Ratio:	100.0%	
Luminaire Power:	13.15 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.70	fine grid method.

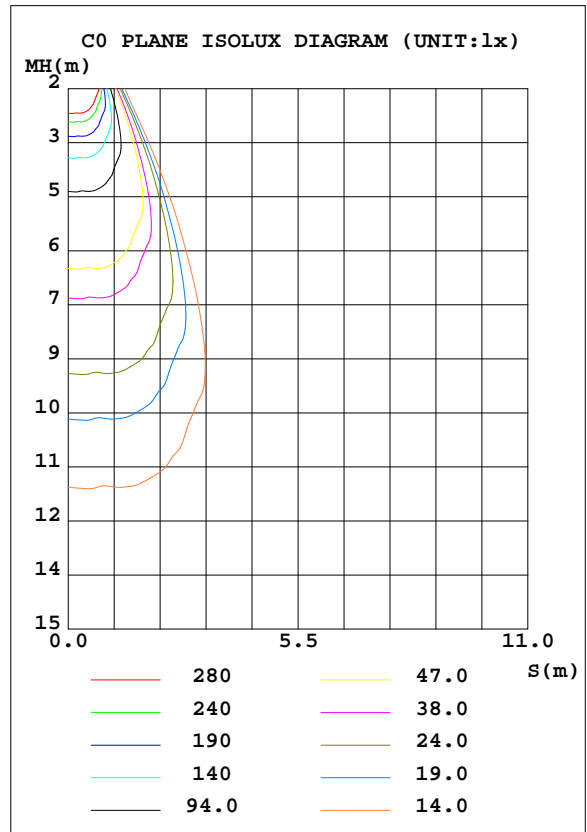
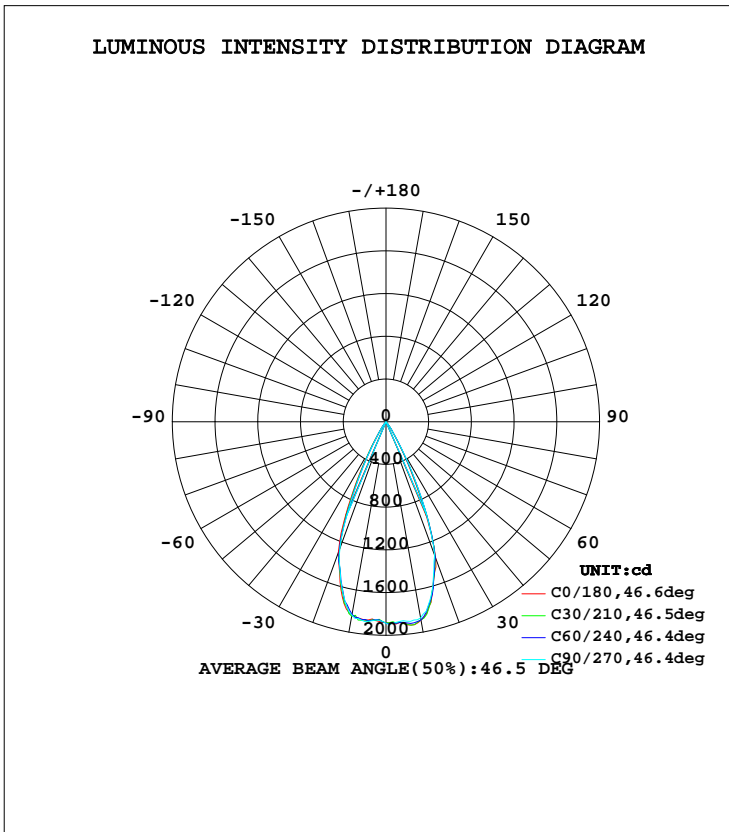
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2016-06-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.6V I:0.0659A P:13.15W PF:0.9042 Lamp Flux:1032.38x1 lm		
NAME: FA5-11W-830-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 78.49 lm/W
MODEL	CREE-3000K	I _{max} (cd)	1930	S/MH(C0/180)	0.69	
NOMINAL POWER(W)	13.0	LOR(%)	100.0	S/MH(C90/270)	0.67	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1032.4	η UP, DN(C0-180)	0.0, 51.2	
NOMINAL FLUX(lm)	1032.38	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 48.8	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.70	



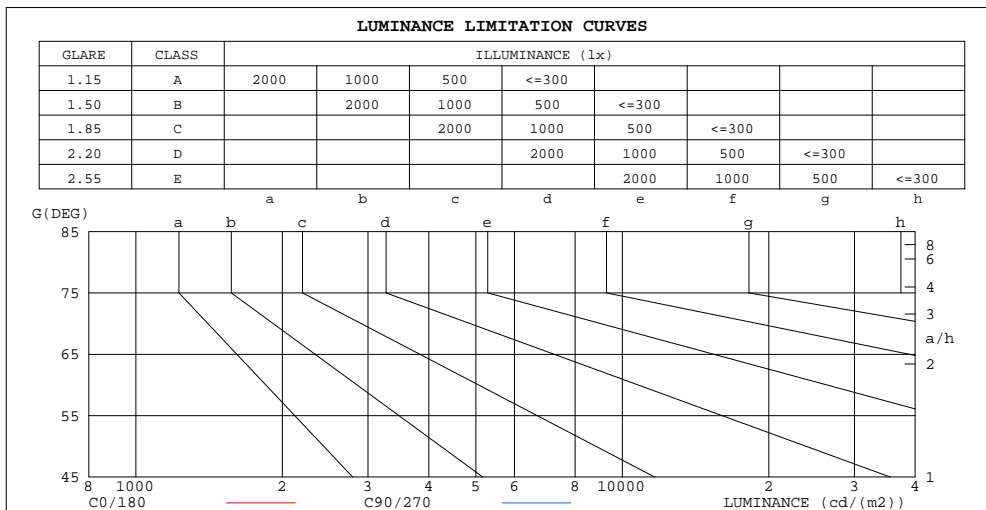
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1886	1895	1865	1858	1841	1833	1838	1871	0- 10	179.4	179.4	17.4,17.4
20	1361	1356	1332	1315	1307	1256	1263	1293	10- 20	450.8	630.2	61,61
30	256.6	291.0	292.0	293.2	272.7	240.5	235.4	239.9	20- 30	336.1	966.3	93.6,93.6
40	23.11	27.07	27.97	28.00	25.88	21.34	20.02	20.59	30- 40	60.31	1027	99.4,99.4
50	1.085	1.133	1.177	1.254	1.290	1.194	1.054	0.9699	40- 50	4.364	1031	99.9,99.9
60	0.5095	0.5599	0.5969	0.6259	0.5768	0.5201	0.4874	0.4859	50- 60	0.7176	1032	99.9,99.9
70	0.2792	0.2959	0.3134	0.3364	0.3002	0.2706	0.2491	0.2749	60- 70	0.3944	1032	100,100
80	0.1578	0.1127	0.0811	0.1297	0.1575	0.1194	0.0533	0.1174	70- 80	0.2145	1032	100,100
90	0.0831	0.0703	0.0724	0.0746	0.0554	0.0511	0.0533	0.0533	80- 90	0.0818	1032	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(DEG)	C0/180	C90/270
85	185	114
80	132	68
75	120	110
70	119	133
65	127	148
60	148	173
55	189	214
50	245	266
45	428	614

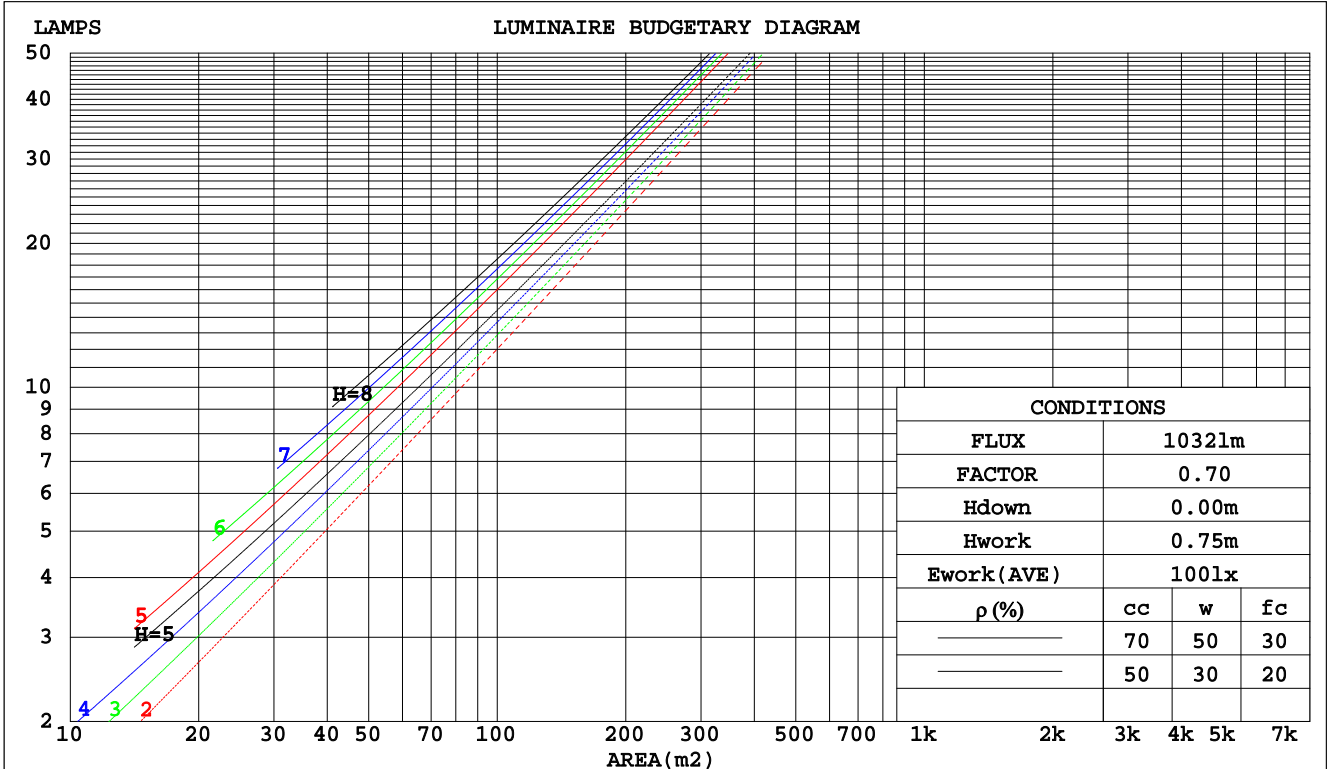
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:53.0%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: FA5-11W-830-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc																
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	.99	1.01	.99	.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	.85	.82	.88	.84	.81	.87	.83	.81	.85	.82	.80	.79
6.0	.87	.82	.78	.86	.81	.78	.85	.81	.78	.83	.80	.77	.82	.79	.77	.75
7.0	.83	.78	.74	.82	.78	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.72
8.0	.79	.74	.71	.79	.74	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.69
9.0	.76	.71	.68	.76	.71	.68	.75	.71	.68	.74	.70	.67	.73	.70	.67	.66
10.0	.73	.68	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.70	.67	.64	.63



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WEC AND CCEC

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ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.153	.087	.028	.146	.083	.027	.134	.077	.025	.122	.071	.023	.112	.065	.021	
2.0	.144	.079	.024	.138	.076	.023	.128	.071	.022	.118	.066	.021	.109	.062	.020	
3.0	.135	.072	.022	.131	.070	.021	.122	.066	.020	.114	.062	.019	.107	.059	.018	
4.0	.128	.067	.020	.124	.065	.019	.117	.062	.019	.110	.059	.018	.104	.056	.017	
5.0	.122	.062	.018	.119	.061	.018	.112	.058	.017	.106	.056	.017	.101	.054	.016	
6.0	.116	.058	.017	.113	.057	.016	.108	.055	.016	.103	.053	.016	.098	.051	.015	
7.0	.111	.055	.016	.109	.054	.015	.104	.052	.015	.099	.051	.015	.095	.049	.014	
8.0	.107	.052	.015	.104	.051	.015	.100	.050	.014	.096	.049	.014	.092	.047	.014	
9.0	.102	.050	.014	.100	.049	.014	.097	.048	.014	.093	.047	.013	.090	.045	.013	
10.0	.099	.047	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013	.087	.044	.013	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.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	.038	.027	.019	.012	.009	.006	
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.005	
8.0	.096	.062	.039	.083	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.091	.057	.034	.079	.049	.029	.054	.035	.021	.032	.020	.012	.010	.007	.004	
10.0	.087	.052	.029	.075	.045	.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:53.0%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

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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	8.4	9.2	8.6	9.3	9.5	9.0	9.8	9.2	10.0	10.1
3H	8.2	9.0	8.5	9.1	9.3	8.9	9.6	9.1	9.8	10.0
4H	8.2	8.8	8.4	9.0	9.3	8.8	9.5	9.1	9.7	9.9
6H	8.1	8.7	8.4	8.9	9.2	8.7	9.3	9.0	9.6	9.8
8H	8.0	8.6	8.3	8.9	9.1	8.7	9.3	9.0	9.5	9.8
12H	8.0	8.6	8.3	8.8	9.1	8.6	9.2	8.9	9.5	9.7
4H 2H	8.2	8.8	8.4	9.0	9.3	8.8	9.5	9.1	9.7	9.9
3H	8.0	8.6	8.3	8.8	9.1	8.6	9.2	8.9	9.5	9.7
4H	7.9	8.4	8.2	8.7	9.0	8.5	9.1	8.9	9.4	9.7
6H	7.8	8.3	8.2	8.6	8.9	8.4	8.9	8.8	9.2	9.6
8H	7.7	8.2	8.1	8.5	8.9	8.4	8.8	8.8	9.2	9.5
12H	7.7	8.1	8.1	8.5	8.9	8.3	8.7	8.7	9.1	9.5
8H 4H	7.7	8.2	8.1	8.5	8.9	8.4	8.8	8.8	9.2	9.5
6H	7.6	8.0	8.1	8.4	8.8	8.3	8.6	8.7	9.0	9.4
8H	7.6	7.9	8.0	8.3	8.8	8.2	8.5	8.7	9.0	9.4
12H	7.5	7.8	8.0	8.2	8.7	8.2	8.4	8.6	8.9	9.3
12H 4H	7.7	8.1	8.1	8.5	8.8	8.3	8.7	8.7	9.1	9.5
6H	7.6	7.9	8.0	8.3	8.8	8.2	8.5	8.7	9.0	9.4
8H	7.5	7.8	8.0	8.2	8.7	8.2	8.4	8.6	8.9	9.3
Variations with the observer position at spacings:										
S = 1.0H	+ 4.4 / -13.4					+ 4.6 / -14.7				
1.5H	+ 7.2 / -12.7					+ 7.4 / -13.8				
2.0H	+ 2.4 / - 0.9					+ 4.5 / - 1.4				

CIE Pub.117 Corrected 1032 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.1)

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 γ Interval: 1.0DEG
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 Remarks:

UTILIZATION FACTORS TABLE

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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	91	86	82	91	85	82	90	85	82	79
0.80	98	93	90	98	93	90	96	92	89	86
1.00	102	97	94	101	96	93	100	96	93	89
1.25	105	101	98	104	100	97	102	99	97	93
1.50	108	104	101	107	103	100	104	101	99	95
2.00	110	106	103	109	105	103	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	113	110	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

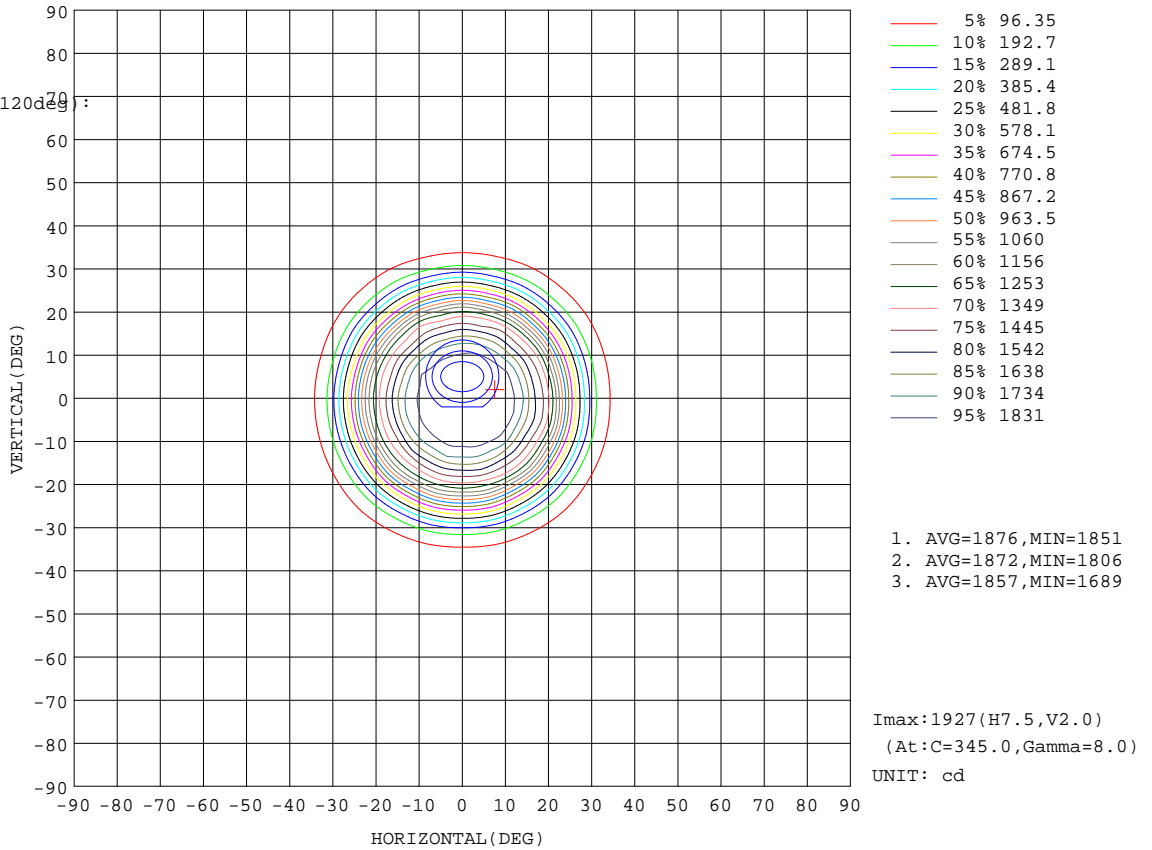
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Conical surface Flux(90deg):

1030.4 lm
%lum = 99.8%
%lamp = 99.8%

Conical surface Flux(120deg):

1031.7 lm
%lum = 99.9%
%lamp = 99.9%

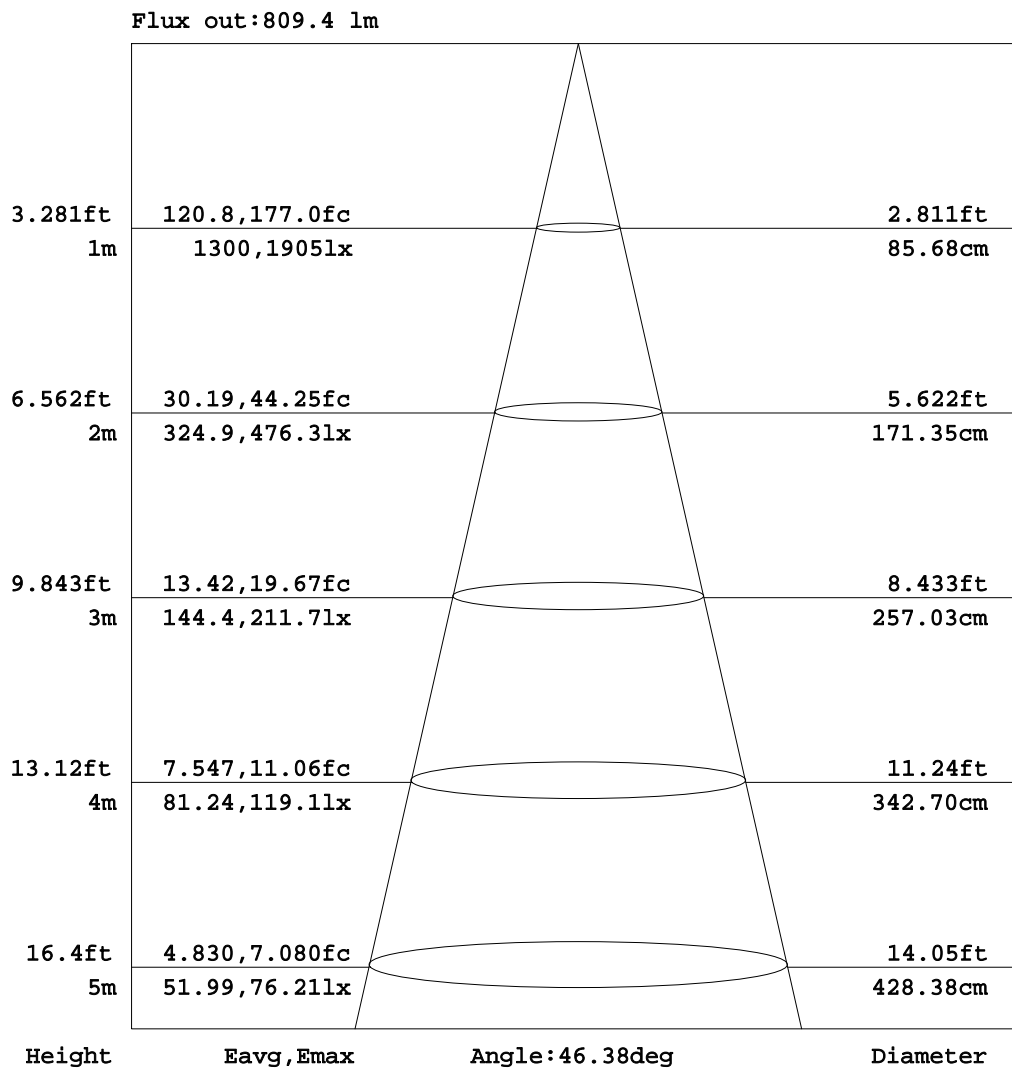


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AAI Figure

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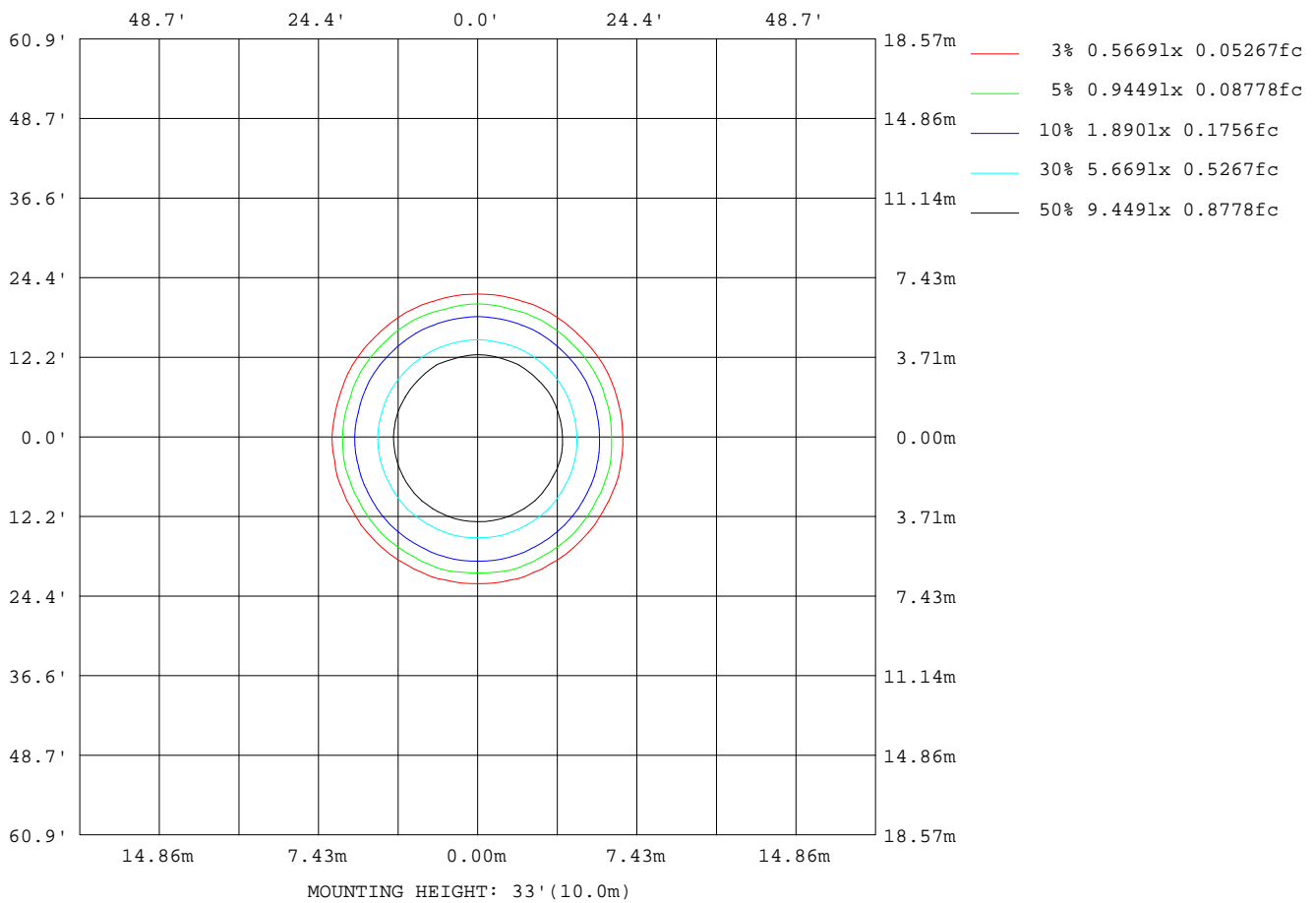
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

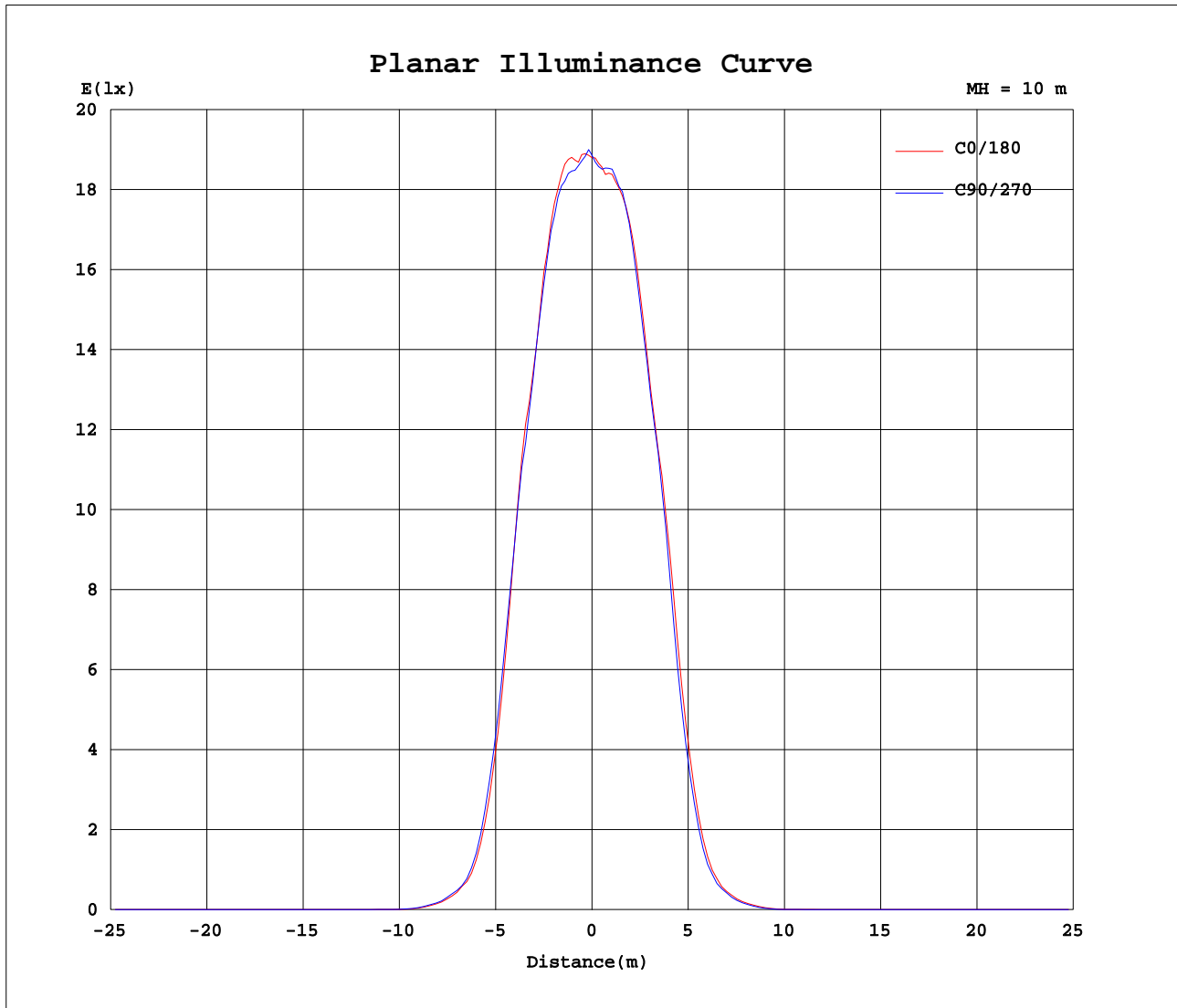
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Planar Illuminance Curve



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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	1880	1884	1884	1884	1886	1883	1886	1880	1885	1878
3.0	1896	1897	1890	1893	1890	1881	1880	1872	1872	1873
6.0	1912	1911	1904	1908	1894	1894	1877	1879	1874	1877
9.0	1906	1906	1899	1907	1893	1888	1878	1866	1865	1873
12.0	1835	1838	1841	1844	1822	1821	1814	1814	1796	1791
15.0	1672	1678	1659	1677	1676	1674	1658	1659	1640	1641
18.0	1477	1492	1476	1482	1473	1475	1454	1463	1449	1435
21.0	1256	1275	1250	1265	1254	1241	1242	1232	1232	1231
24.0	859.5	892.9	896.3	922.3	902.4	919.4	908.7	913.9	892.1	909.0
27.0	510.8	535.5	539.8	560.1	556.4	574.2	563.2	568.5	555.3	559.4
30.0	256.6	274.5	277.5	291.0	289.1	300.5	292.0	298.9	287.3	293.2
33.0	119.2	132.4	123.5	138.2	130.6	143.3	131.8	142.6	129.9	138.9
36.0	64.82	68.48	70.22	73.47	73.85	75.72	74.76	75.57	73.35	72.92
39.0	30.65	32.52	32.66	34.99	34.85	35.96	35.32	36.22	35.33	35.72
42.0	9.973	11.08	11.28	12.61	12.38	13.25	12.72	13.55	12.80	13.03
45.0	2.082	2.499	2.527	2.890	2.796	3.157	2.987	3.203	2.991	3.150
48.0	1.258	1.280	1.285	1.299	1.283	1.322	1.337	1.384	1.407	1.433
51.0	1.011	1.039	1.045	1.056	1.053	1.088	1.102	1.145	1.158	1.173
54.0	0.8060	0.8261	0.8422	0.8516	0.8613	0.8857	0.9040	0.9347	0.9487	0.9496
57.0	0.6418	0.6642	0.6780	0.6898	0.7014	0.7239	0.7334	0.7516	0.7675	0.7622
60.0	0.5095	0.5301	0.5436	0.5599	0.5692	0.5940	0.5969	0.6195	0.6288	0.6259
63.0	0.4200	0.4365	0.4477	0.4578	0.4711	0.4876	0.4925	0.5088	0.5202	0.5173
66.0	0.3517	0.3620	0.3710	0.3833	0.3859	0.4024	0.4029	0.4195	0.4285	0.4301
69.0	0.2921	0.3045	0.3112	0.3193	0.3197	0.3343	0.3347	0.3428	0.3560	0.3577
72.0	0.2515	0.2576	0.2643	0.2619	0.2601	0.2682	0.2666	0.2724	0.2879	0.2938
75.0	0.2132	0.2172	0.2260	0.2108	0.2090	0.1979	0.1963	0.1979	0.2282	0.2342
78.0	0.1812	0.1767	0.1770	0.1532	0.1532	0.1388	0.1148	0.1148	0.1558	0.1788
81.0	0.1492	0.1341	0.1322	0.0893	0.0769	0.0639	0.0704	0.0660	0.0896	0.0978
84.0	0.1194	0.0957	0.0833	0.0597	0.0618	0.0660	0.0682	0.0682	0.0660	0.0660
87.0	0.0960	0.0724	0.0660	0.0682	0.0618	0.0703	0.0682	0.0745	0.0660	0.0724
90.0	0.0831	0.0810	0.0682	0.0703	0.0682	0.0703	0.0724	0.0724	0.0746	0.0746
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1882	1875	1880	1884	1884	1884	1886	1883	1886	1880
3.0	1860	1864	1864	1853	1864	1872	1856	1852	1859	1874
6.0	1872	1858	1868	1854	1864	1861	1862	1889	1882	1881
9.0	1863	1861	1852	1843	1834	1838	1852	1861	1863	1869
12.0	1787	1775	1791	1771	1767	1777	1752	1755	1771	1779
15.0	1641	1634	1631	1612	1614	1592	1594	1582	1599	1604
18.0	1426	1430	1425	1406	1412	1382	1411	1395	1409	1412
21.0	1229	1216	1214	1204	1172	1166	1188	1144	1174	1152
24.0	881.3	885.4	877.7	851.2	834.8	801.9	801.9	785.2	793.3	781.1
27.0	542.6	539.3	538.6	513.3	510.8	484.8	480.4	468.7	474.7	467.7
30.0	276.1	274.3	272.7	255.2	257.7	240.5	241.9	229.7	235.4	229.9
33.0	123.9	131.1	131.5	115.5	122.8	111.2	113.0	109.5	110.9	110.9
36.0	70.32	69.05	68.05	65.47	65.75	62.23	61.65	56.81	58.23	59.92
39.0	33.67	33.33	32.81	30.61	30.35	28.96	28.99	27.49	28.00	27.52
42.0	11.76	11.72	11.86	10.45	10.22	9.064	8.984	8.190	8.423	7.966
45.0	2.724	2.671	2.857	2.395	2.298	1.874	1.797	1.534	1.534	1.393
48.0	1.384	1.356	1.486	1.456	1.435	1.362	1.320	1.230	1.186	1.123
51.0	1.117	1.096	1.194	1.160	1.156	1.111	1.094	1.025	0.9876	0.9379
54.0	0.8977	0.8729	0.9387	0.9103	0.9045	0.8804	0.8684	0.8208	0.7877	0.7568
57.0	0.7206	0.6962	0.7322	0.7035	0.6960	0.6800	0.6725	0.6332	0.6278	0.6011
60.0	0.5841	0.5663	0.5768	0.5457	0.5406	0.5201	0.5129	0.4860	0.4874	0.4774
63.0	0.4839	0.4641	0.4640	0.4391	0.4300	0.4114	0.4002	0.3880	0.3895	0.3858
66.0	0.4008	0.3896	0.3832	0.3602	0.3576	0.3410	0.3257	0.3218	0.3193	0.3218
69.0	0.3389	0.3236	0.3172	0.3048	0.2938	0.2814	0.2682	0.2686	0.2661	0.2707
72.0	0.2856	0.2725	0.2682	0.2621	0.2448	0.2451	0.2234	0.2281	0.2149	0.2218
75.0	0.2409	0.2321	0.2257	0.2280	0.2086	0.2025	0.1724	0.1749	0.1574	0.1706
78.0	0.1961	0.1916	0.1831	0.1854	0.1617	0.1514	0.1148	0.1131	0.0871	0.1067
81.0	0.1514	0.1447	0.1447	0.1429	0.1106	0.1003	0.0595	0.0683	0.0533	0.0619
84.0	0.0897	0.0915	0.1064	0.0939	0.0596	0.0598	0.0511	0.0596	0.0533	0.0554
87.0	0.0682	0.0724	0.0660	0.0555	0.0533	0.0511	0.0511	0.0575	0.0533	0.0554
90.0	0.0724	0.0724	0.0554	0.0533	0.0533	0.0511	0.0511	0.0533	0.0533	0.0533
G/C	300.0	315.0	330.0	345.0						
0.0	1885	1878	1882	1875						
3.0	1890	1875	1881	1878						
6.0	1901	1914	1908	1917						
9.0	1888	1888	1919	1910						
12.0	1801	1805	1834	1823						
15.0	1631	1634	1658	1658						
18.0	1446	1434	1454	1478						
21.0	1183	1182	1220	1224						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Cao Chengpei

Test Date: 2016-06-24

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288

Humidity: 53.0%

Test Distance: 5.850m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	818.5	809.6	838.7	846.0
27.0	481.1	486.6	504.3	508.6
30.0	240.2	239.9	255.0	254.2
33.0	118.6	114.5	124.4	118.4
36.0	60.33	60.74	64.77	64.90
39.0	29.04	28.87	30.80	30.60
42.0	8.551	8.495	9.488	9.730
45.0	1.524	1.542	1.879	1.928
48.0	1.111	1.106	1.132	1.149
51.0	0.9152	0.9060	0.9195	0.9294
54.0	0.7430	0.7312	0.7366	0.7419
57.0	0.5960	0.5926	0.5960	0.6011
60.0	0.4853	0.4859	0.4938	0.4902
63.0	0.3959	0.4050	0.4087	0.4113
66.0	0.3300	0.3410	0.3449	0.3431
69.0	0.2746	0.2899	0.2917	0.2877
72.0	0.2256	0.2451	0.2469	0.2515
75.0	0.1745	0.2026	0.2023	0.2131
78.0	0.1169	0.1556	0.1596	0.1833
81.0	0.0574	0.0960	0.1106	0.1386
84.0	0.0511	0.0576	0.0575	0.1045
87.0	0.0511	0.0533	0.0533	0.0619
90.0	0.0533	0.0533	0.0533	0.0575

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Cao Chengpei
 Test Date: 2016-06-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 53.0%
 Test Distance: 5.850m [K=1.0000]
 Remarks: