

GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Spotlight KENZO Series K1X55-9W-940-18D



Light Output Ratio:	100.0%	
Luminaire Power:	10.82 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-30

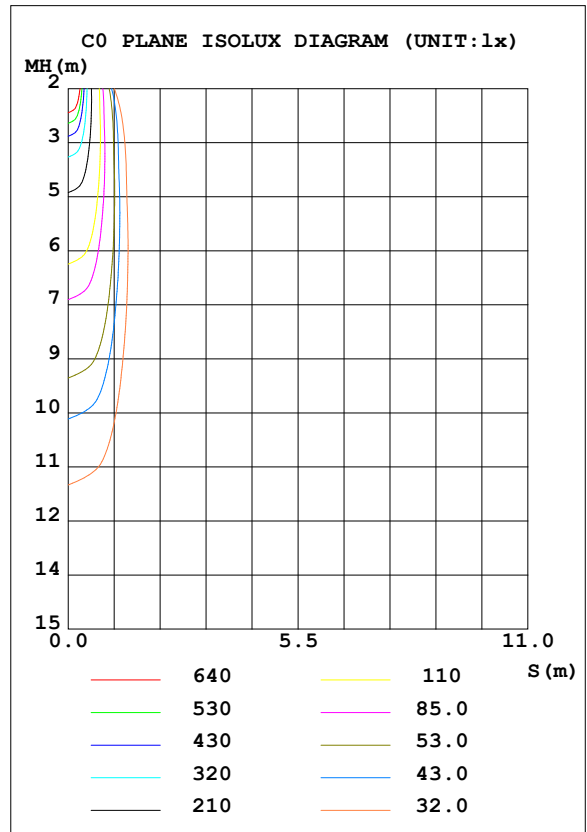
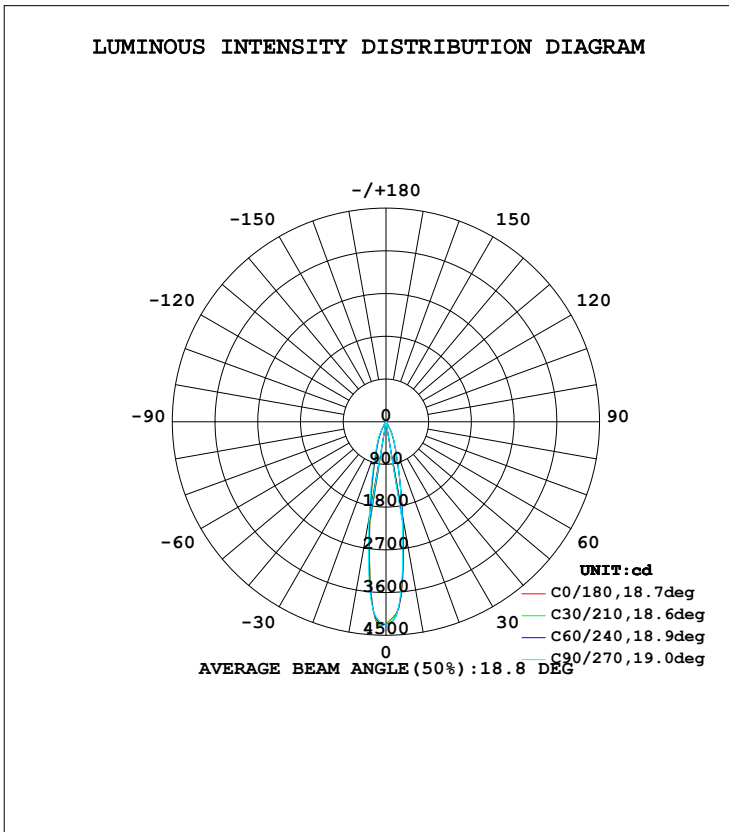
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.0542A P:10.82W PF:0.9040 Lamp Flux:773.357x1 lm		
NAME: K1X55-9W-940-18D	TYPE:Spotlight	SERIAL No.:
SPEC.:4000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.46 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	4294	S/MH (C0/180)	0.32
NOMINAL POWER (W)	11.0	LOR (%)	100.0	S/MH (C90/270)	0.33
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	773.36	η UP, DN (C0-180)	0.0, 49.4
NOMINAL FLUX (lm)	773.357	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-08-30

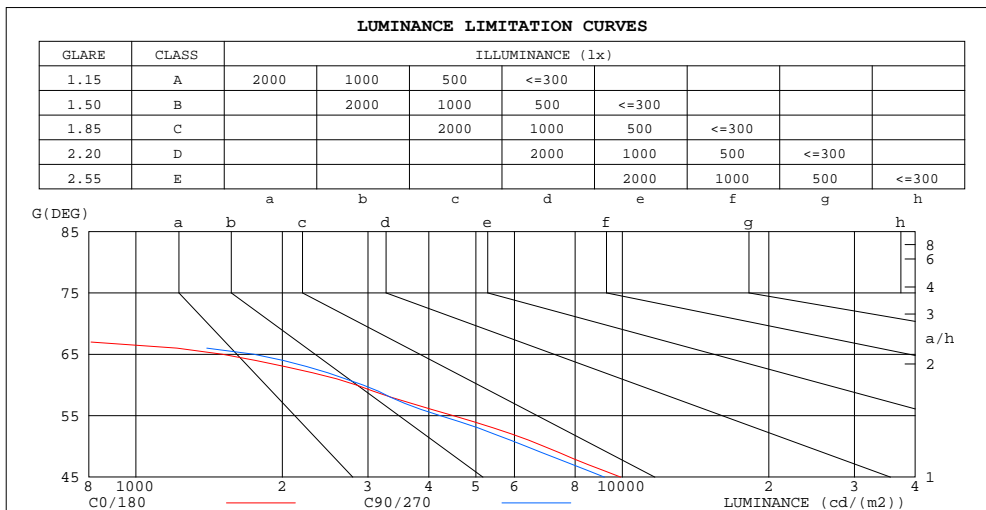
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	2021	2050	1954	1890	1897	1908	2051	2098	0- 10	288.4	288.4	37.3,37.3
20	560.3	566.9	582.0	534.2	537.0	554.1	606.3	577.8	10- 20	290.4	578.8	74.8,74.8
30	140.0	130.5	110.2	94.59	112.5	110.3	129.0	118.9	20- 30	145.9	724.7	93.7,93.7
40	24.60	25.43	23.74	21.93	23.72	23.19	22.78	23.51	30- 40	29.44	754.1	97.5,97.5
50	10.54	10.25	9.689	9.697	9.707	8.530	10.09	9.807	40- 50	12.25	766.4	99.1,99.1
60	3.369	3.574	3.476	3.299	3.067	2.947	3.039	3.232	50- 60	5.208	771.6	99.8,99.8
70	0.2911	0.3124	0.3590	0.3146	0.3079	0.3326	0.3494	0.3348	60- 70	1.513	773.1	100,100
80	0.1029	0.0983	0.1314	0.1026	0.0939	0.1204	0.1048	0.1116	70- 80	0.2144	773.3	100,100
90	0.0306	0.0262	0.0284	0.0284	0.0175	0.0153	0.0175	0.0197	80- 90	0.0624	773.4	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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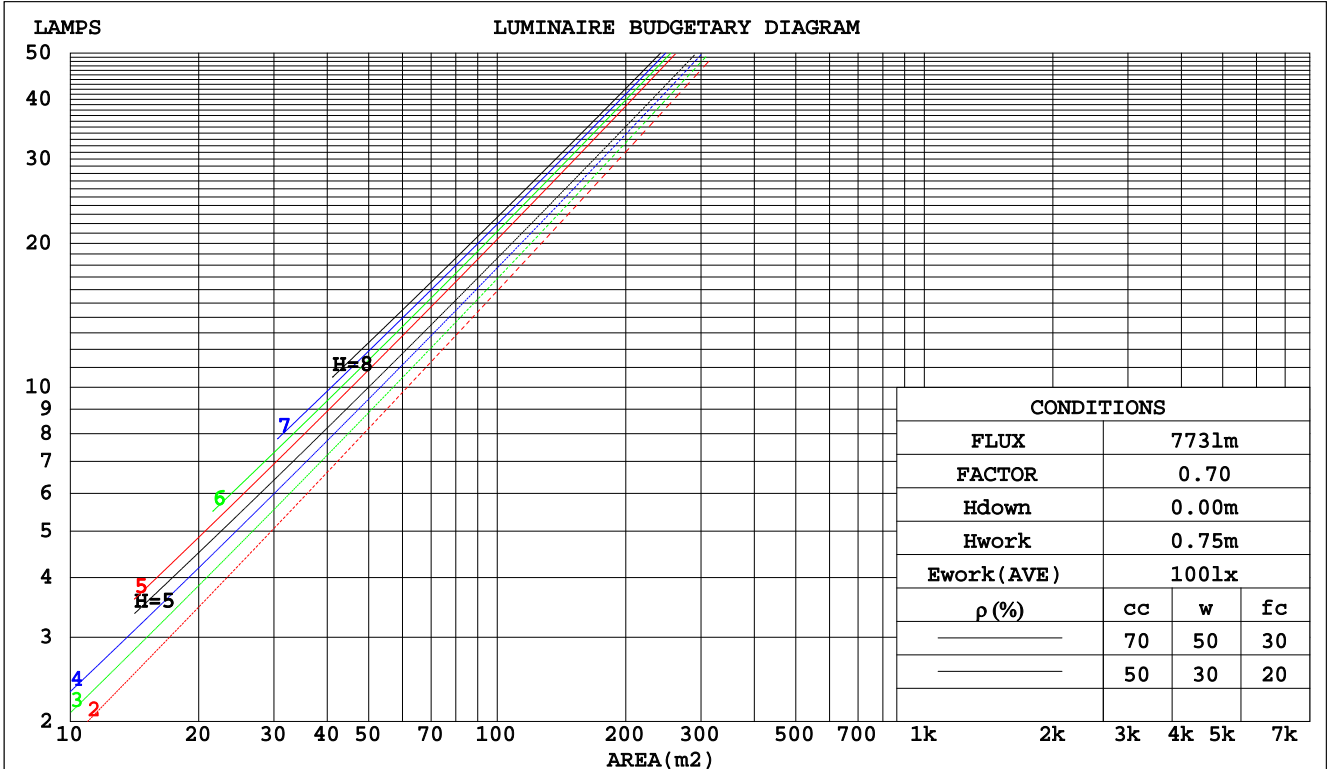
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: K1X55-9W-940-18D	TYPE:Spotlight	SERIAL No.:
SPEC.:4000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

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															
	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	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.07	1.04	1.02	1.06	1.03	1.01	1.03	1.00	.99	.00	.98	.96	.97	.96	.94	.93
3.0	1.03	.99	.96	1.01	.98	.95	.99	.96	.94	.97	.94	.92	.94	.93	.91	.90
4.0	.99	.95	.91	.97	.94	.91	.95	.92	.90	.94	.91	.89	.92	.90	.88	.87
5.0	.95	.91	.88	.94	.90	.87	.92	.89	.86	.91	.88	.86	.89	.87	.85	.84
6.0	.91	.87	.84	.91	.87	.84	.89	.86	.83	.88	.85	.83	.87	.84	.82	.81
7.0	.88	.84	.81	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.79
8.0	.86	.81	.79	.85	.81	.78	.84	.81	.78	.83	.80	.78	.83	.80	.78	.77
9.0	.83	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.76	.80	.78	.75	.74
10.0	.81	.77	.74	.80	.77	.74	.80	.76	.74	.79	.76	.74	.79	.76	.73	.73



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WEC AND CCEC

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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	.139	.079	.025	.132	.075	.024	.120	.069	.022	.108	.062	.020	.098	.057	.018	
2.0	.129	.071	.022	.124	.068	.021	.113	.063	.020	.104	.058	.018	.095	.054	.017	
3.0	.121	.064	.019	.116	.062	.019	.107	.058	.018	.100	.055	.017	.092	.051	.016	
4.0	.113	.059	.017	.109	.057	.017	.102	.054	.016	.095	.051	.015	.089	.048	.015	
5.0	.107	.054	.016	.103	.053	.015	.097	.051	.015	.091	.048	.014	.086	.046	.014	
6.0	.101	.051	.014	.098	.050	.014	.093	.048	.014	.088	.046	.013	.083	.044	.013	
7.0	.096	.047	.013	.093	.047	.013	.089	.045	.013	.084	.043	.013	.080	.042	.012	
8.0	.091	.045	.013	.089	.044	.012	.085	.042	.012	.081	.041	.012	.078	.040	.012	
9.0	.087	.042	.012	.085	.042	.012	.082	.040	.011	.078	.039	.011	.075	.038	.011	
10.0	.083	.040	.011	.082	.039	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011	

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	.168	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.136	.113	.095	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.106	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.113	.086	.066	.097	.074	.057	.067	.052	.040	.039	.030	.024	.012	.010	.008	
6.0	.104	.076	.055	.089	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.097	.068	.047	.083	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.090	.061	.041	.077	.053	.036	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.084	.055	.035	.073	.048	.031	.050	.034	.022	.029	.020	.013	.010	.007	.004	
10.0	.079	.050	.031	.068	.044	.027	.048	.031	.019	.028	.018	.012	.009	.006	.004	

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 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
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UGR(Unified Glare Rating) Table

Test:U:220.8V I:0.0542A P:10.82W PF:0.9040 Lamp Flux:773.357x1 lm		
NAME: K1X55-9W-940-18D	TYPE:Spotlight	SERIAL No.:
SPEC.:4000K	DIM.: φ88mm*H125mm	
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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	10.7	11.4	10.9	11.5	11.7	10.2	10.9	10.4	11.0	11.2
3H	10.6	11.2	10.8	11.4	11.6	10.1	10.7	10.3	10.9	11.1
4H	10.5	11.1	10.8	11.3	11.5	10.0	10.6	10.3	10.8	11.0
6H	10.4	11.0	10.7	11.2	11.4	10.0	10.5	10.2	10.7	11.0
8H	10.4	10.9	10.7	11.2	11.4	9.9	10.5	10.2	10.7	10.9
12H	10.3	10.9	10.6	11.1	11.4	9.9	10.4	10.2	10.6	10.9
4H 2H	10.6	11.2	10.8	11.4	11.6	10.1	10.7	10.4	10.9	11.1
3H	10.5	11.0	10.8	11.2	11.5	10.0	10.5	10.3	10.8	11.0
4H	10.4	10.8	10.7	11.1	11.4	9.9	10.4	10.2	10.7	11.0
6H	10.3	10.7	10.6	11.0	11.4	9.8	10.2	10.2	10.6	10.9
8H	10.2	10.6	10.6	11.0	11.3	9.8	10.2	10.2	10.5	10.9
12H	10.2	10.5	10.6	10.9	11.3	9.7	10.1	10.1	10.4	10.8
8H 4H	10.2	10.6	10.6	10.9	11.3	9.8	10.2	10.1	10.5	10.9
6H	10.1	10.4	10.5	10.8	11.2	9.7	10.0	10.1	10.4	10.8
8H	10.0	10.3	10.5	10.7	11.2	9.6	9.9	10.0	10.3	10.7
12H	10.0	10.2	10.4	10.7	11.1	9.5	9.8	10.0	10.2	10.7
12H 4H	10.2	10.5	10.6	10.9	11.3	9.7	10.1	10.1	10.4	10.8
6H	10.0	10.3	10.5	10.7	11.2	9.6	9.9	10.0	10.3	10.7
8H	10.0	10.2	10.4	10.7	11.1	9.5	9.8	10.0	10.2	10.7
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 4.2					+ 1.8 / - 4.1				
1.5H	+ 2.5 / - 3.0					+ 2.4 / - 2.6				
2.0H	+ 3.8 / - 4.8					+ 3.5 / - 4.1				

CIE Pub.117 Corrected 773.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.9)

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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	90	84	81	89	84	81	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	108	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	113	112	113	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

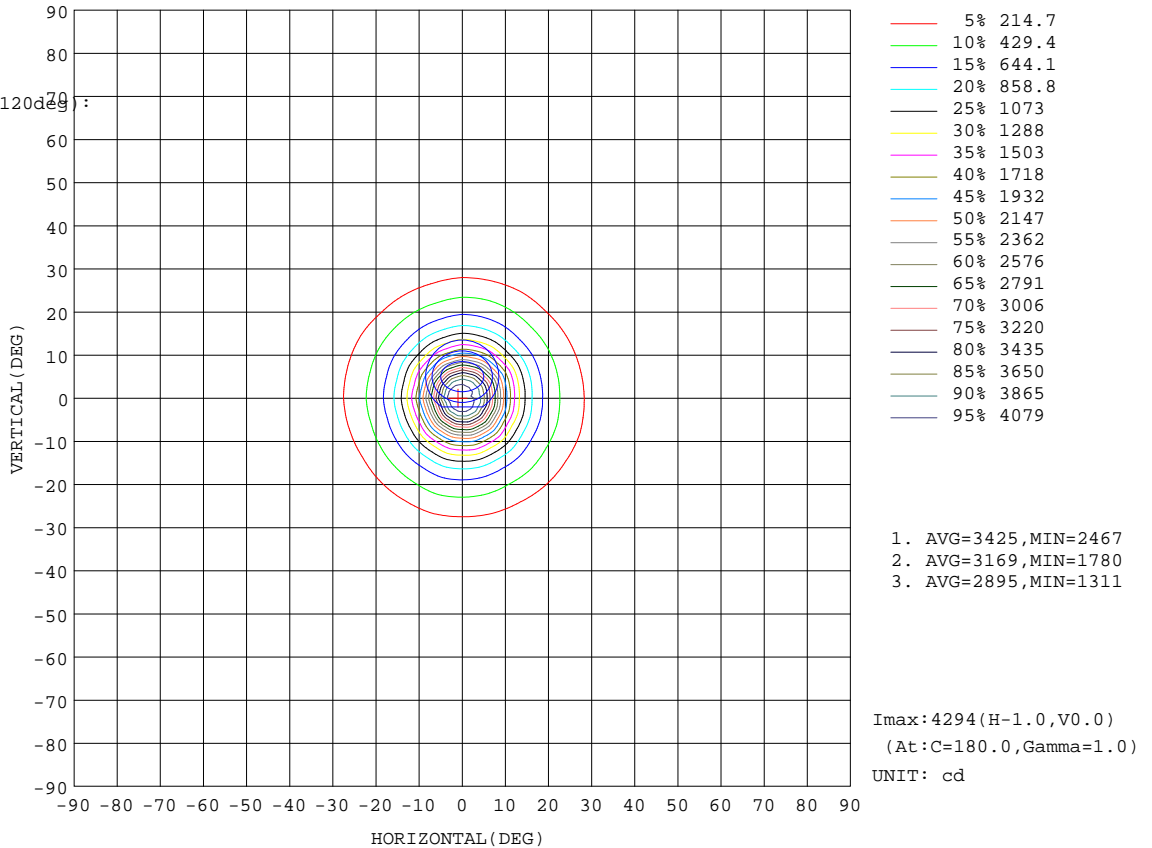
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Conical surface Flux(90deg):

761.32 lm
%lum = 98.4%
%lamp = 98.4%

Conical surface Flux(120deg):

771.57 lm
%lum = 99.8%
%lamp = 99.8%



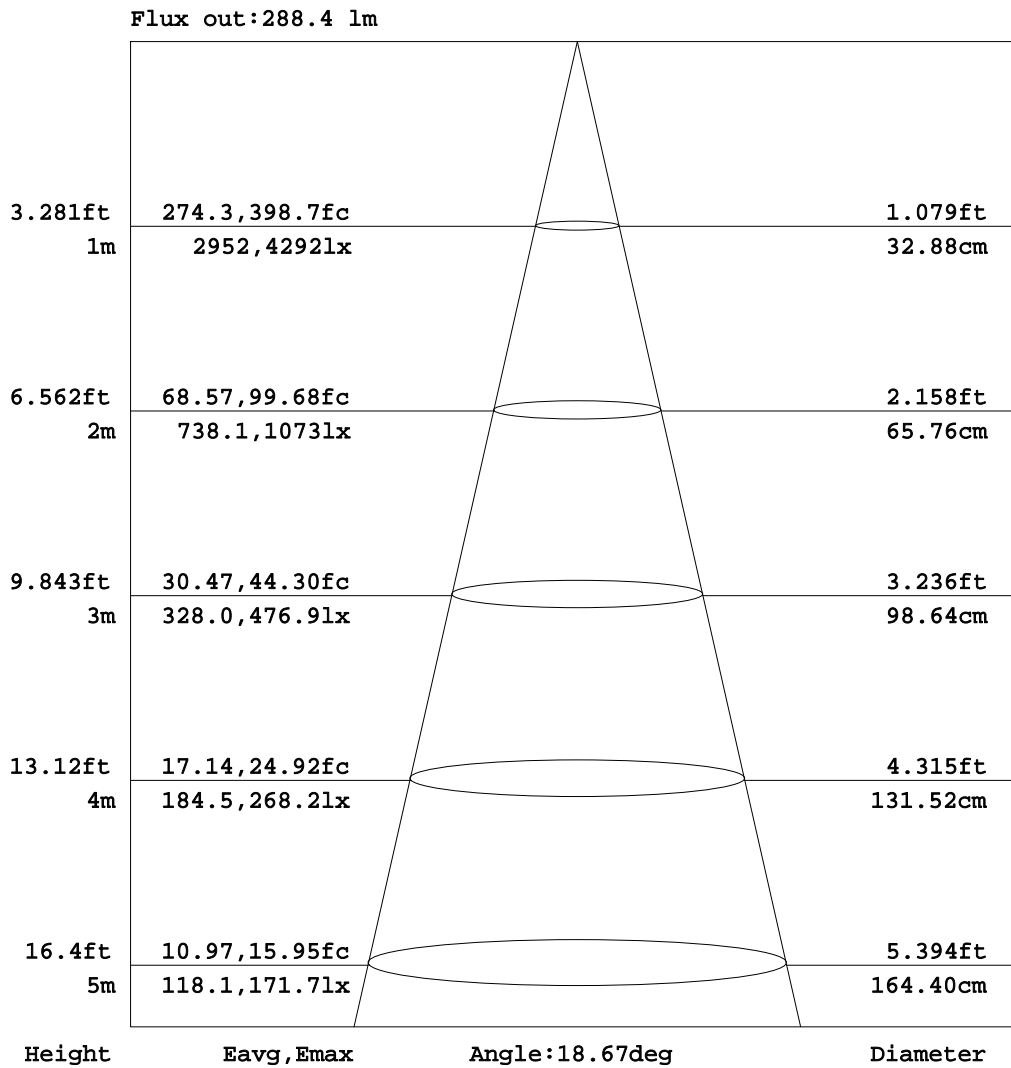
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AAI Figure

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

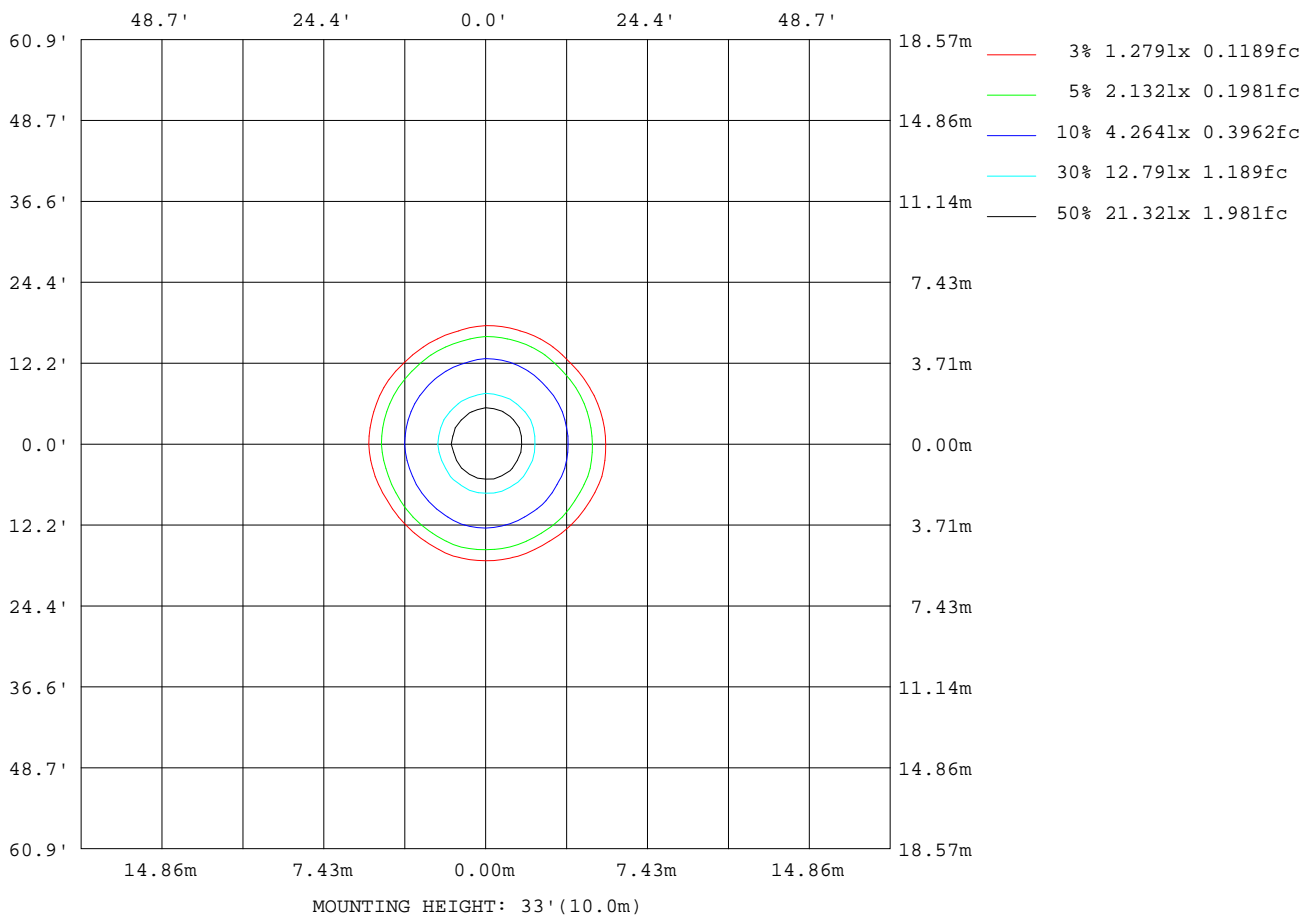
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ISOLUX DIAGRAM

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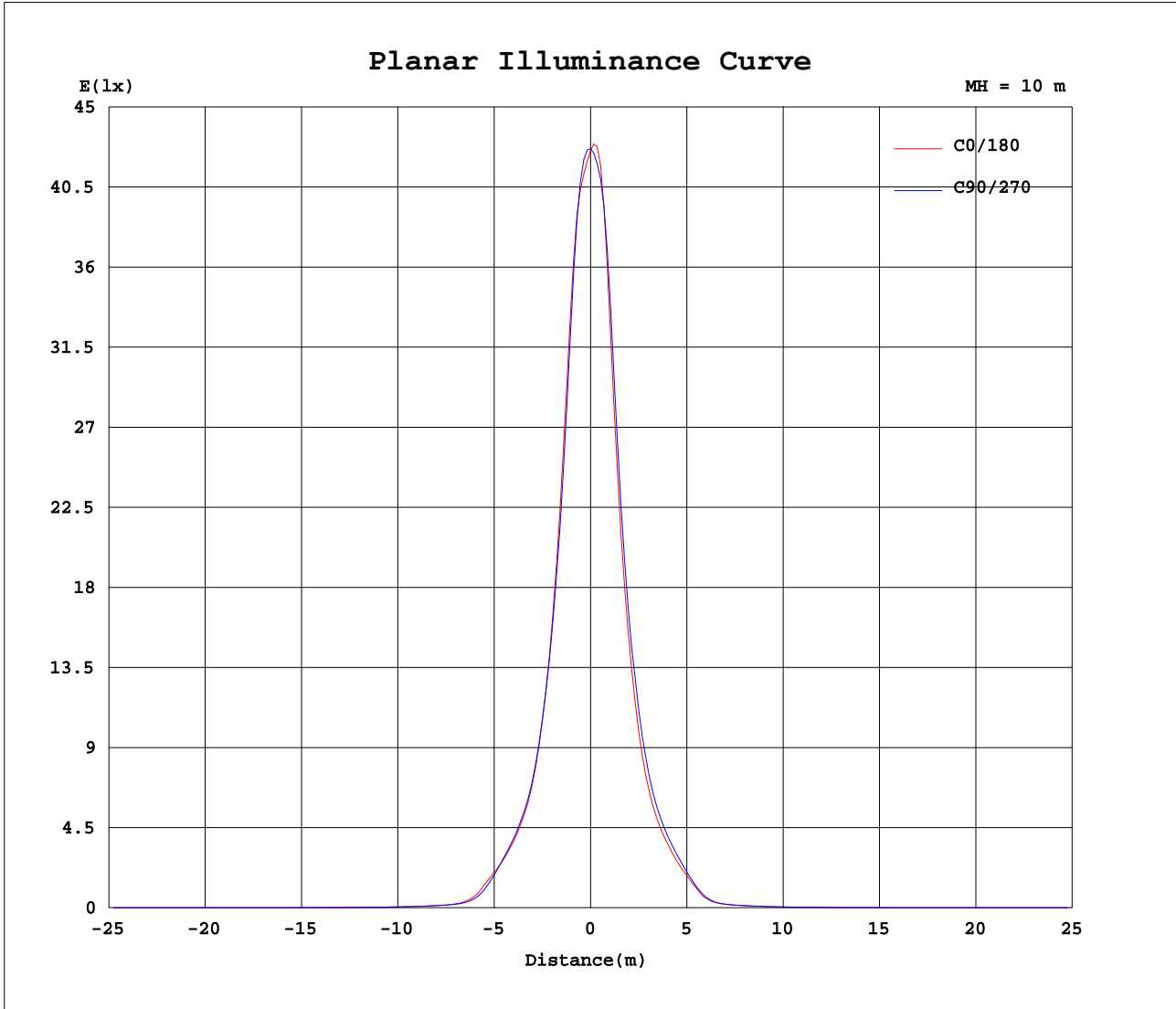


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Planar Illuminance Curve



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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	4256	4258	4250	4272	4266	4267	4265	4264	4262	4259
3.0	4051	4077	4076	4115	4100	4116	4095	4117	4098	4126
6.0	3368	3385	3325	3373	3312	3327	3257	3275	3199	3223
9.0	2319	2342	2283	2351	2283	2297	2221	2228	2165	2163
12.0	1525	1533	1504	1561	1523	1542	1503	1506	1444	1451
15.0	1007	1018	1002	1035	1013	1033	1020	1023	971.5	959.5
18.0	688.6	696.0	689.1	706.1	692.9	709.7	710.8	711.3	674.5	665.3
21.0	503.4	510.1	498.3	510.5	504.9	518.8	524.5	525.4	495.7	482.0
24.0	370.1	376.2	364.2	373.4	369.0	378.9	382.8	383.4	358.9	348.5
27.0	262.1	267.0	248.3	243.0	232.2	239.3	238.1	239.6	216.3	206.6
30.0	140.0	147.9	134.5	130.5	110.8	109.9	110.2	110.0	94.96	94.59
33.0	63.28	60.66	63.76	60.39	57.47	53.68	51.56	51.22	48.27	48.48
36.0	36.20	35.63	36.67	36.40	34.73	34.27	33.50	33.41	32.08	31.32
39.0	26.89	26.59	27.06	27.36	26.47	25.27	25.68	25.84	24.41	23.71
42.0	21.30	21.34	20.90	21.63	20.83	20.10	20.19	20.46	19.61	18.98
45.0	16.67	16.77	16.21	16.55	16.14	15.73	15.43	15.90	15.38	15.11
48.0	12.58	12.77	12.22	12.41	12.08	11.98	11.68	11.99	11.72	11.62
51.0	9.595	9.865	9.297	9.233	9.085	9.057	8.800	8.956	8.829	8.766
54.0	6.910	7.191	6.720	6.696	6.717	6.744	6.463	6.523	6.476	6.250
57.0	4.765	4.917	4.618	4.773	4.814	4.856	4.615	4.546	4.610	4.332
60.0	3.369	3.480	3.349	3.574	3.631	3.550	3.476	3.421	3.456	3.299
63.0	2.180	2.305	2.287	2.430	2.497	2.408	2.420	2.421	2.488	2.286
66.0	1.174	1.230	1.194	1.249	1.328	1.250	1.351	1.280	1.343	1.143
69.0	0.3220	0.3124	0.3350	0.3452	0.3808	0.3823	0.3984	0.3845	0.3765	0.3452
72.0	0.2365	0.2272	0.2517	0.2512	0.2868	0.2796	0.2999	0.2840	0.2868	0.2556
75.0	0.1773	0.1639	0.1883	0.1857	0.2124	0.2054	0.2233	0.2075	0.2145	0.1879
78.0	0.1314	0.1114	0.1379	0.1267	0.1598	0.1620	0.1442	0.1442	0.1576	0.1332
81.0	0.0963	0.0743	0.1029	0.0852	0.1095	0.0961	0.1182	0.0983	0.1117	0.0873
84.0	0.0700	0.0480	0.0722	0.0610	0.0788	0.0589	0.0788	0.0611	0.0766	0.0567
87.0	0.0482	0.0328	0.0482	0.0327	0.0504	0.0371	0.0526	0.0350	0.0482	0.0350
90.0	0.0306	0.0262	0.0284	0.0262	0.0262	0.0284	0.0284	0.0284	0.0284	0.0284
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4259	4220	4256	4258	4250	4272	4266	4267	4265	4264
3.0	4103	4089	4187	4158	4172	4138	4138	4110	4111	4078
6.0	3145	3120	3253	3210	3285	3268	3346	3335	3412	3390
9.0	2092	2082	2178	2134	2200	2187	2273	2263	2349	2337
12.0	1382	1393	1452	1410	1460	1455	1505	1512	1580	1581
15.0	923.3	924.1	956.9	943.5	981.4	987.6	1026	1034	1080	1073
18.0	646.3	641.1	663.6	657.0	679.3	683.1	706.0	715.5	749.1	747.3
21.0	472.2	468.8	487.8	484.7	494.6	496.9	512.1	521.7	548.9	549.7
24.0	337.7	338.5	352.3	352.1	355.2	357.7	370.2	377.7	401.7	403.3
27.0	200.5	216.7	235.9	233.9	231.0	217.1	227.4	235.1	259.9	258.9
30.0	99.19	107.5	112.5	108.6	113.9	110.3	104.9	106.9	129.0	126.2
33.0	47.81	49.53	50.28	48.30	51.96	50.55	51.75	50.07	53.84	57.52
36.0	31.62	33.59	33.04	32.46	33.94	32.79	32.77	31.58	32.98	33.27
39.0	24.11	25.69	25.55	25.23	25.46	25.20	24.79	23.56	24.72	25.50
42.0	18.79	19.93	20.50	20.10	19.69	19.63	19.50	19.08	19.80	20.47
45.0	14.25	15.19	15.66	15.29	14.86	14.56	15.05	15.22	15.76	15.95
48.0	10.62	11.32	11.76	11.42	10.98	10.59	10.87	11.60	12.20	12.39
51.0	7.840	8.363	8.743	8.220	7.943	7.574	7.685	8.687	9.146	9.249
54.0	5.555	5.784	5.996	5.561	5.415	5.287	5.274	6.131	6.568	6.543
57.0	3.920	3.891	4.047	3.714	3.656	3.716	3.544	4.128	4.371	4.255
60.0	3.049	2.995	3.067	2.809	2.797	2.947	2.711	2.926	3.039	3.022
63.0	2.038	2.052	2.232	1.857	1.881	2.019	2.100	2.025	2.041	2.126
66.0	0.9579	0.9949	1.212	0.9038	0.9812	0.9479	1.088	1.098	1.183	1.214
69.0	0.3479	0.3365	0.3364	0.3501	0.3516	0.3654	0.3647	0.3852	0.3866	0.3984
72.0	0.2649	0.2534	0.2511	0.2714	0.2599	0.2823	0.2708	0.2955	0.2817	0.2955
75.0	0.2014	0.1835	0.1791	0.2014	0.1922	0.2145	0.1987	0.2189	0.2031	0.2189
78.0	0.1489	0.1310	0.1288	0.1466	0.1310	0.1532	0.1354	0.1598	0.1398	0.1597
81.0	0.1051	0.0830	0.0807	0.1007	0.0829	0.1072	0.0895	0.1138	0.0895	0.1073
84.0	0.0723	0.0524	0.0415	0.0657	0.0458	0.0701	0.0523	0.0723	0.0588	0.0701
87.0	0.0438	0.0328	0.0262	0.0373	0.0262	0.0395	0.0327	0.0438	0.0327	0.0460
90.0	0.0306	0.0284	0.0175	0.0197	0.0175	0.0153	0.0153	0.0175	0.0175	0.0197
G/C	300.0	315.0	330.0	345.0						
0.0	4262	4259	4259	4220						
3.0	4079	4056	4065	3995						
6.0	3443	3412	3460	3395						
9.0	2405	2400	2450	2376						
12.0	1619	1599	1637	1574						
15.0	1085	1056	1073	1034						
18.0	740.8	714.4	719.4	700.8						
21.0	537.2	516.9	519.4	509.3						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-08-30

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	393.9	376.6	381.1	377.0
27.0	259.5	244.5	251.8	254.6
30.0	131.3	118.9	135.5	142.0
33.0	56.04	59.27	62.16	65.89
36.0	35.22	34.84	36.82	37.55
39.0	26.05	25.62	27.45	28.11
42.0	20.68	20.18	21.14	21.90
45.0	16.27	15.69	16.17	16.48
48.0	12.36	11.91	12.02	12.18
51.0	9.228	8.838	8.931	9.160
54.0	6.619	6.371	6.504	6.575
57.0	4.402	4.406	4.550	4.559
60.0	3.099	3.232	3.370	3.350
63.0	2.189	2.255	2.392	2.349
66.0	1.275	1.188	1.371	1.263
69.0	0.3778	0.3699	0.3407	0.3328
72.0	0.2729	0.2736	0.2424	0.2473
75.0	0.1922	0.1970	0.1704	0.1795
78.0	0.1288	0.1422	0.1179	0.1313
81.0	0.0807	0.0963	0.0764	0.0919
84.0	0.0459	0.0700	0.0458	0.0678
87.0	0.0305	0.0416	0.0306	0.0416
90.0	0.0175	0.0197	0.0197	0.0197

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-30

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: