

LED Downlight Kenzo Series K1X70-13W-840-30D

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Light Output Ratio:	100.0%	
Luminaire Power:	14.53 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

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C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-05-31

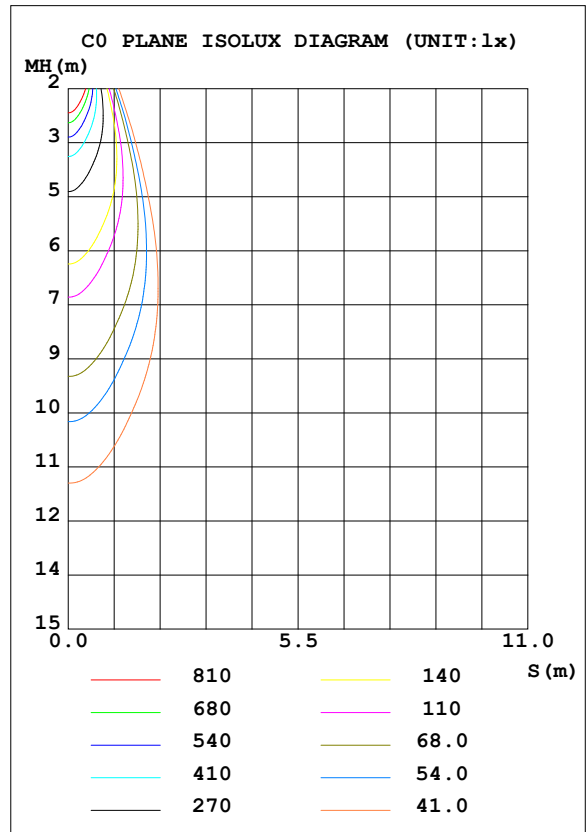
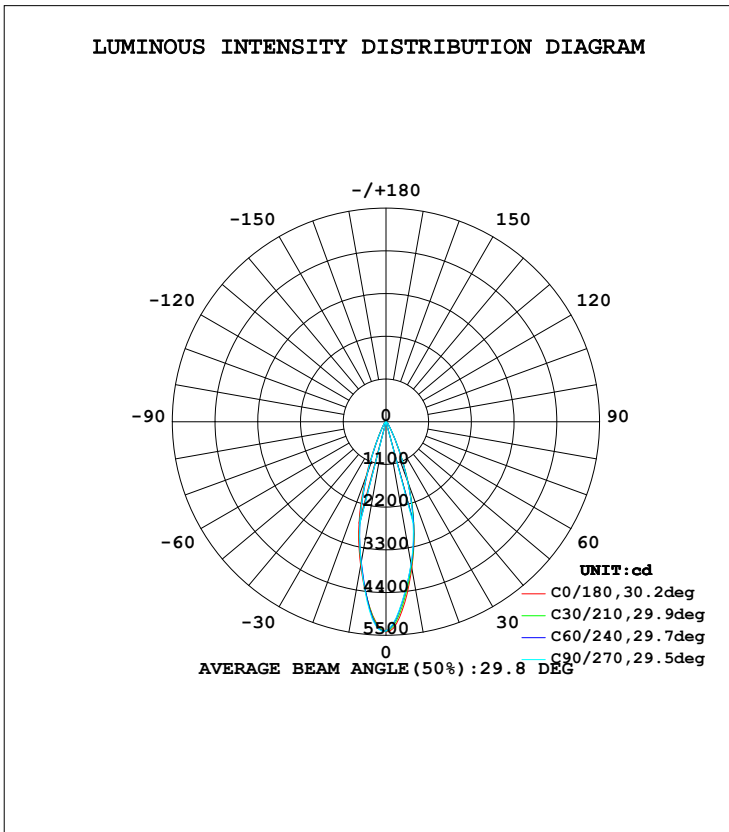
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.0689A P:14.53W PF:0.9552 Lamp Flux:1658.77x1 lm		
NAME: K1X70-13W-840-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H138mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 114.17 lm/W			
MODEL	CITIZEN-4000K	I <sub>max</sub> (cd)	5411	S/MH (C0/180)	0.49
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.48
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1658.8	η UP, DN (C0-180)	0.0, 51.5
NOMINAL FLUX (lm)	1658.77	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.5
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



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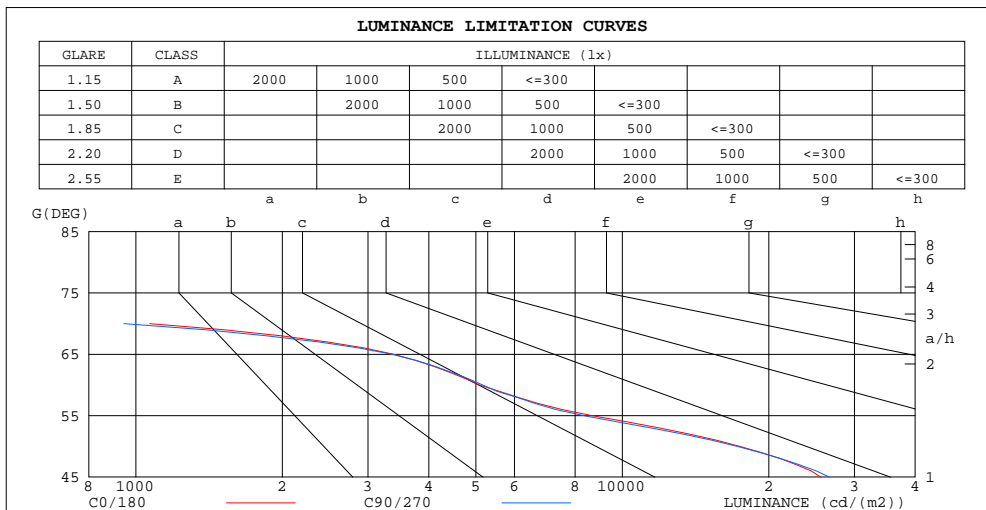
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**ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	3833	3779	3720	3742	3771	3645	3699	3795	0- 10	423.5	423.5	25.5,25.5
20	1646	1691	1636	1578	1505	1356	1416	1472	10- 20	720.6	1144	69,69
30	316.3	329.4	320.3	313.7	283.1	245.9	252.3	286.3	20- 30	334.0	1478	89.1,89.1
40	97.11	105.0	105.8	99.61	90.55	87.60	84.45	87.41	30- 40	100.8	1579	95.2,95.2
50	45.63	46.20	45.06	43.21	42.85	43.57	43.01	43.77	40- 50	53.17	1632	98.4,98.4
60	10.34	10.84	10.50	10.46	10.55	10.79	11.27	10.95	50- 60	20.39	1652	99.6,99.6
70	1.486	1.486	1.315	1.396	1.727	1.790	1.875	1.725	60- 70	5.927	1658	100,100
80	0.1313	0.1092	0.1357	0.1180	0.1092	0.1313	0.1070	0.1225	70- 80	0.3803	1659	100,100
90	0.0656	0.0612	0.0700	0.0678	0.0547	0.0547	0.0547	0.0547	80- 90	0.0887	1659	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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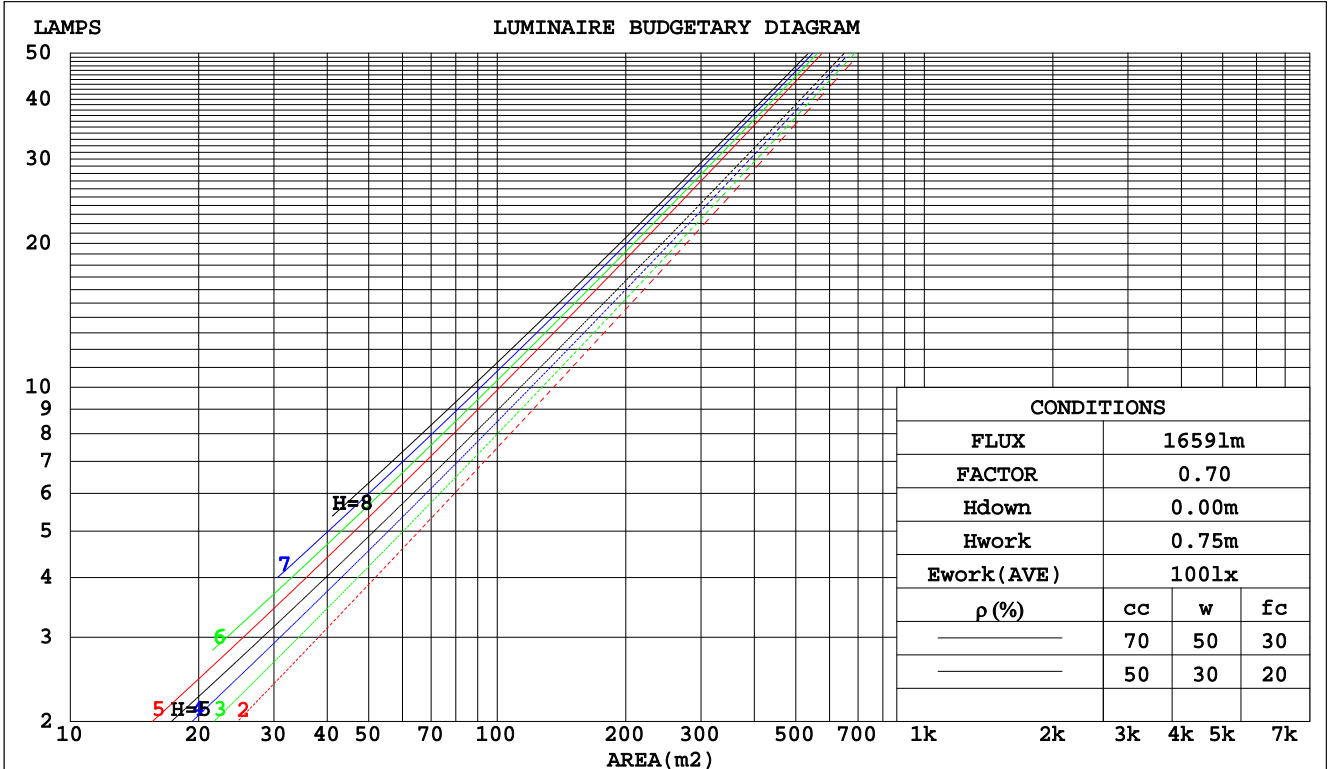
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GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0689A P:14.53W PF:0.9552 Lamp Flux:1658.77x1 lm		
NAME: K1X70-13W-840-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H138mm	
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	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	.90	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.86	.83	.89	.85	.83	.88	.84	.82	.86	.83	.81	.80
6.0	.88	.83	.80	.87	.83	.79	.86	.82	.79	.84	.81	.78	.83	.80	.78	.77
7.0	.84	.80	.76	.84	.79	.76	.83	.79	.76	.81	.78	.75	.80	.77	.75	.74
8.0	.81	.76	.73	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.71
9.0	.78	.73	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.70	.69
10.0	.75	.71	.68	.75	.71	.68	.74	.70	.68	.74	.70	.67	.73	.70	.67	.66



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 γ Interval: 1.0DEG  
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GONIOPHOTOMETERS SYSTEM TEST REPORT

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	.150	.086	.027	.144	.082	.026	.131	.075	.024	.120	.069	.022	.109	.063	.020	
2.0	.141	.077	.024	.136	.075	.023	.126	.070	.022	.116	.065	.020	.107	.061	.019	
3.0	.133	.071	.021	.128	.069	.021	.120	.065	.020	.112	.061	.019	.104	.058	.018	
4.0	.125	.065	.019	.122	.064	.019	.114	.061	.018	.107	.058	.017	.101	.055	.017	
5.0	.119	.060	.018	.115	.059	.017	.109	.057	.017	.103	.054	.016	.098	.052	.016	
6.0	.113	.057	.016	.110	.055	.016	.104	.053	.016	.099	.052	.015	.094	.050	.015	
7.0	.107	.053	.015	.105	.052	.015	.100	.051	.015	.095	.049	.014	.091	.047	.014	
8.0	.102	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013	
9.0	.098	.047	.013	.096	.047	.013	.092	.046	.013	.089	.044	.013	.085	.043	.013	
10.0	.094	.045	.013	.092	.045	.012	.089	.043	.012	.086	.043	.012	.083	.042	.012	

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	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006	
8.0	.095	.062	.039	.081	.054	.034	.056	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.030	.073	.045	.026	.050	.032	.019	.029	.019	.011	.010	.006	.004	

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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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0689A P:14.53W PF:0.9552 Lamp Flux:1658.77x1 lm		
NAME: K1X70-13W-840-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H138mm	
MFR.: NEKO LIGHTING AG		

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	15.4	16.1	15.6	16.3	16.5	15.5	16.2	15.7	16.4	16.6
3H	15.3	16.0	15.5	16.2	16.4	15.4	16.1	15.6	16.3	16.5
4H	15.2	15.9	15.5	16.1	16.3	15.3	16.0	15.6	16.2	16.4
6H	15.1	15.7	15.4	16.0	16.2	15.2	15.8	15.5	16.1	16.3
8H	15.1	15.7	15.4	15.9	16.2	15.2	15.8	15.5	16.0	16.3
12H	15.0	15.6	15.3	15.9	16.1	15.1	15.7	15.4	16.0	16.2
4H 2H	15.3	15.9	15.5	16.1	16.3	15.4	16.0	15.6	16.2	16.4
3H	15.1	15.7	15.5	16.0	16.2	15.2	15.8	15.5	16.1	16.3
4H	15.0	15.6	15.4	15.9	16.2	15.1	15.7	15.5	16.0	16.3
6H	14.9	15.4	15.3	15.7	16.1	15.0	15.5	15.4	15.8	16.2
8H	14.9	15.3	15.3	15.7	16.0	15.0	15.4	15.4	15.8	16.1
12H	14.8	15.2	15.2	15.6	16.0	14.9	15.3	15.3	15.7	16.1
8H 4H	14.9	15.3	15.3	15.7	16.0	15.0	15.4	15.4	15.8	16.1
6H	14.8	15.1	15.2	15.5	15.9	14.9	15.2	15.3	15.6	16.0
8H	14.7	15.0	15.2	15.5	15.9	14.8	15.1	15.3	15.5	16.0
12H	14.7	14.9	15.1	15.4	15.8	14.8	15.0	15.2	15.5	15.9
12H 4H	14.8	15.2	15.2	15.6	16.0	14.9	15.3	15.3	15.7	16.1
6H	14.7	15.0	15.2	15.5	15.9	14.8	15.1	15.3	15.5	16.0
8H	14.7	14.9	15.1	15.4	15.8	14.8	15.0	15.2	15.5	15.9
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 5.6					+ 2.1 / - 5.8				
1.5H	+ 2.0 / - 4.9					+ 2.3 / - 5.0				
2.0H	+ 4.7 / - 5.8					+ 4.8 / - 5.8				

CIE Pub.117 Corrected 1659 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.8)

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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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0689A P:14.53W PF:0.9552 Lamp Flux:1658.77x1 lm		
NAME: K1X70-13W-840-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H138mm	
MFR.: NEKO LIGHTING AG		

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	79	88	82	79	87	82	78	75
0.80	96	90	87	95	90	86	94	89	86	83
1.00	100	95	91	99	94	91	98	94	90	87
1.25	104	99	96	103	98	95	101	97	94	90
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	97
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

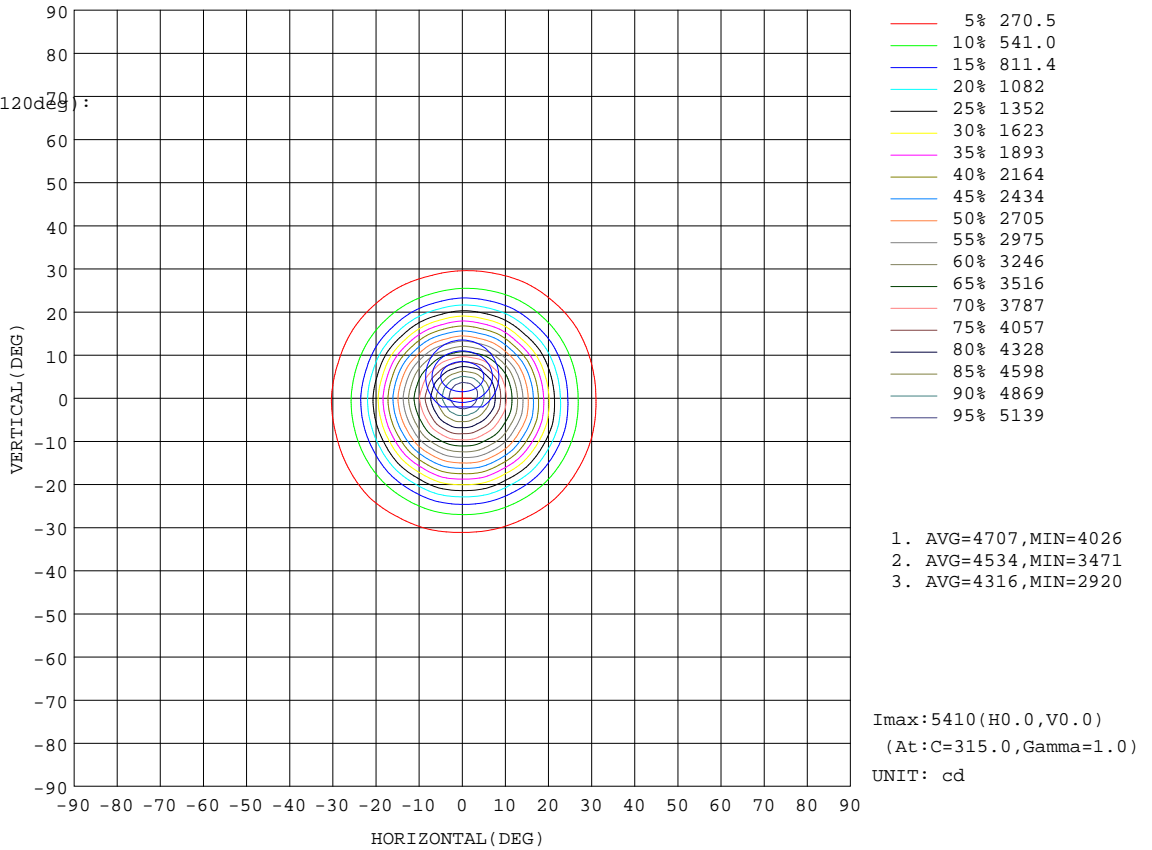
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Conical surface Flux(90deg):

1608.8 lm  
%lum = 97.0%  
%lamp = 97.0%

Conical surface Flux(120deg):

1652.4 lm  
%lum = 99.6%  
%lamp = 99.6%



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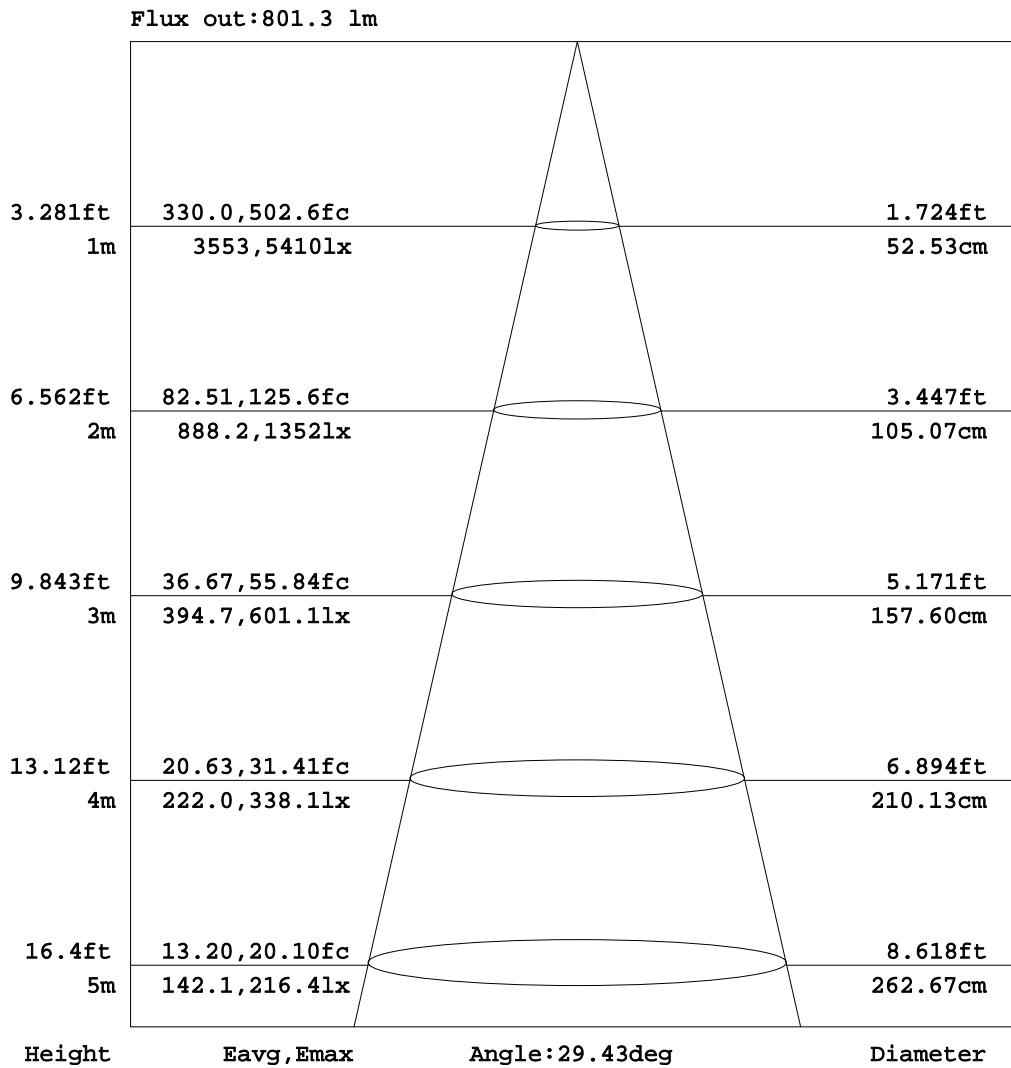
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GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

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

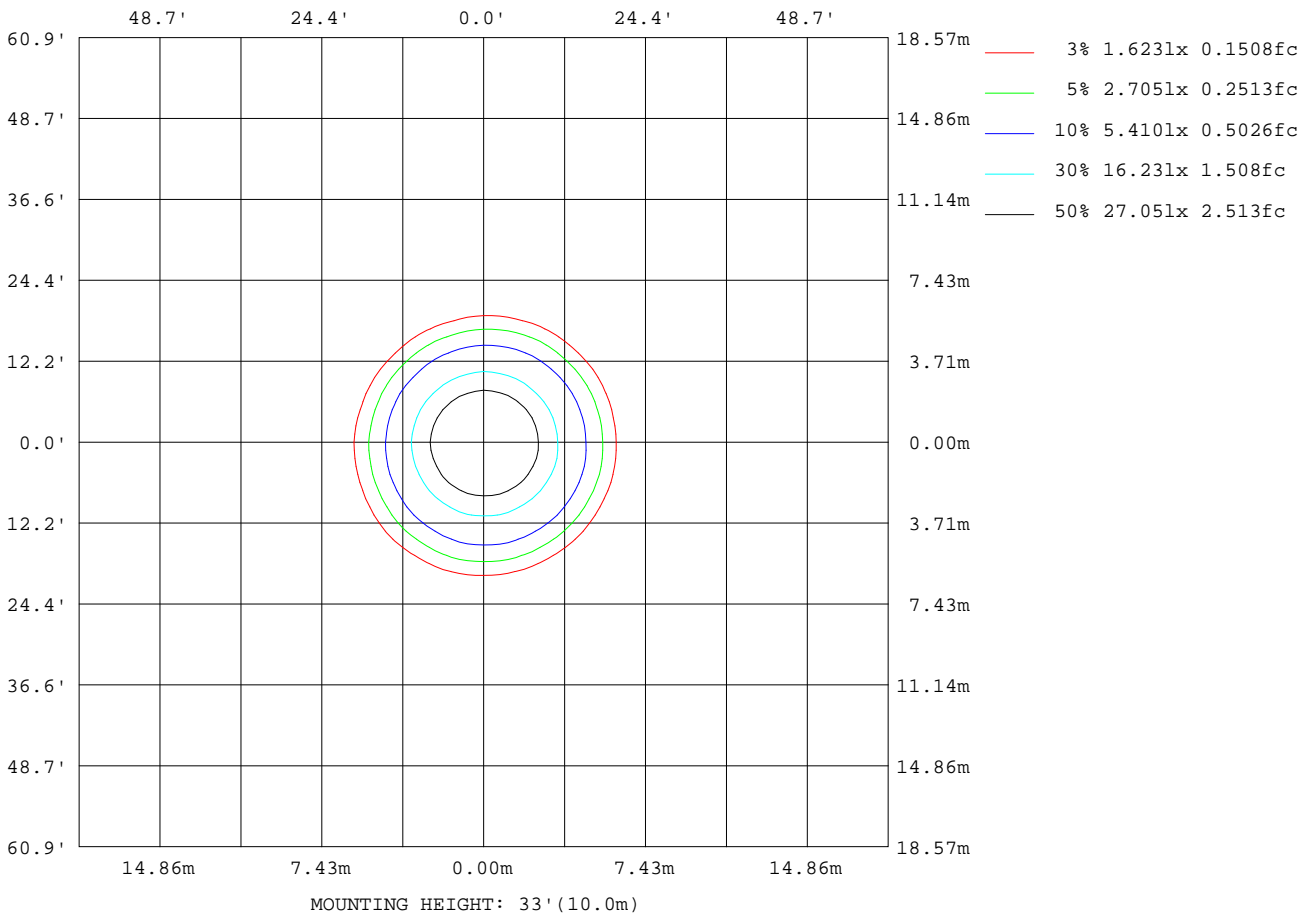
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ISOLUX DIAGRAM

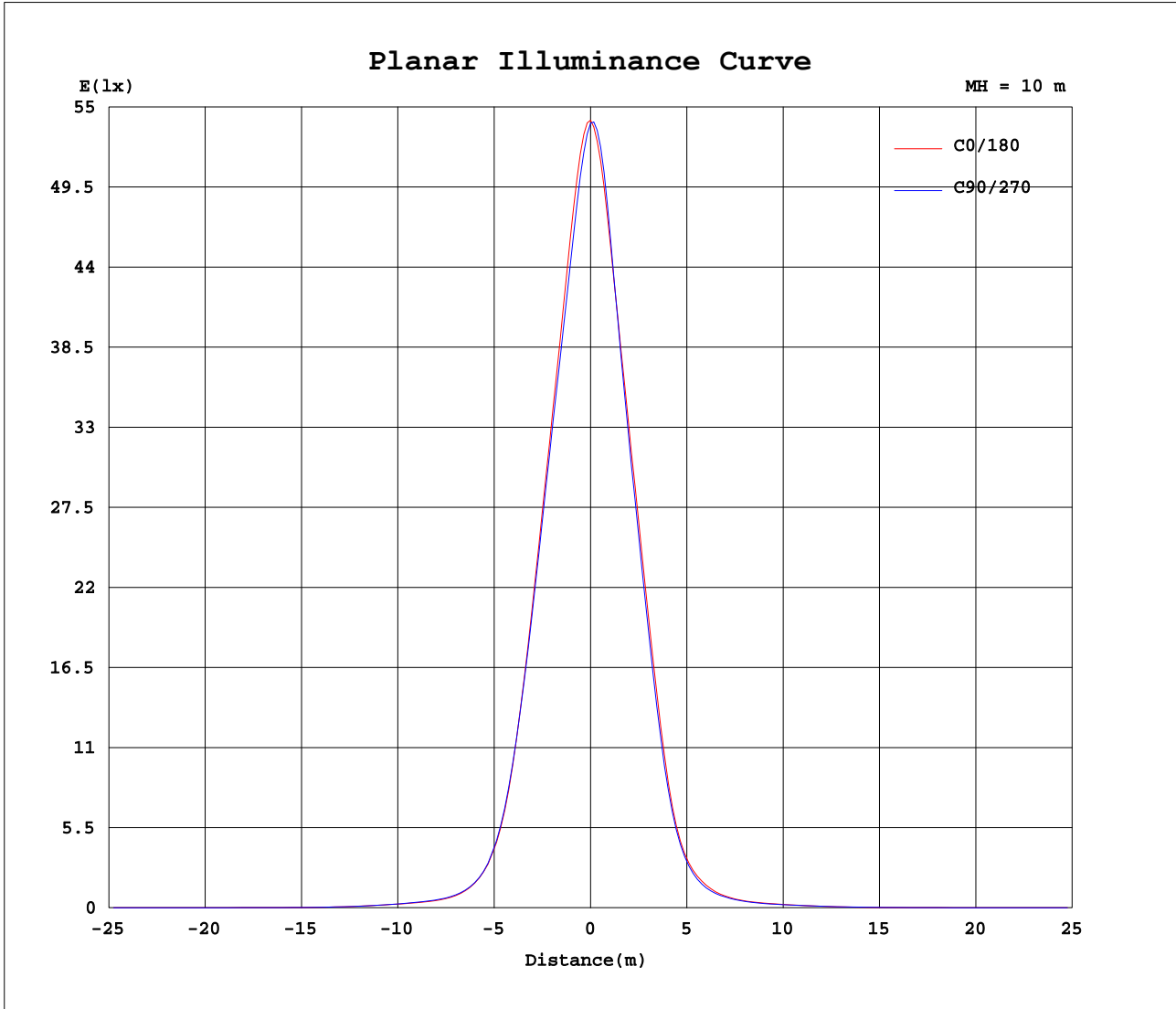
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Planar Illuminance Curve



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## 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	5410	5403	5401	5399	5393	5396	5388	5393	5389	5393
3.0	5201	5186	5137	5123	5075	5075	5046	5063	5045	5072
6.0	4672	4655	4581	4550	4495	4507	4486	4519	4505	4535
9.0	4037	4040	3976	3967	3923	3940	3907	3940	3919	3942
12.0	3416	3442	3399	3412	3361	3367	3331	3339	3319	3339
15.0	2767	2817	2775	2797	2755	2759	2705	2721	2689	2701
18.0	2088	2153	2122	2131	2078	2103	2055	2078	2019	2022
21.0	1429	1494	1474	1485	1435	1467	1433	1452	1377	1371
24.0	875.4	930.1	925.5	933.9	905.9	917.6	898.5	897.1	850.3	829.5
27.0	528.7	551.6	555.4	555.0	546.8	547.0	539.9	535.6	512.2	492.4
30.0	316.3	328.7	325.8	329.4	321.3	324.9	320.3	326.5	313.6	313.7
33.0	199.4	205.8	204.7	209.1	206.1	208.5	207.7	212.8	208.7	210.6
36.0	136.2	141.4	141.7	145.7	144.4	145.5	145.1	148.0	144.3	146.1
39.0	103.9	107.4	109.5	112.1	111.4	112.4	113.0	112.4	109.1	107.8
42.0	86.95	89.30	91.57	93.18	92.60	93.32	93.67	92.24	89.43	87.35
45.0	73.64	74.74	75.91	77.10	76.29	76.80	76.65	75.76	73.69	72.11
48.0	57.47	57.94	57.82	58.90	57.59	58.34	57.60	57.34	55.42	55.04
51.0	39.96	39.92	39.44	40.19	39.02	39.73	39.08	38.97	37.54	37.63
54.0	24.40	24.27	23.64	24.04	23.18	23.78	23.30	23.43	22.47	22.76
57.0	14.85	14.73	14.62	14.90	14.62	14.85	14.65	14.69	14.25	14.32
60.0	10.34	10.54	10.62	10.84	10.73	10.78	10.50	10.57	10.40	10.46
63.0	7.587	7.760	7.793	8.002	7.845	7.882	7.629	7.687	7.568	7.657
66.0	4.897	5.048	5.035	5.185	5.018	5.032	4.778	4.888	4.788	4.879
69.0	2.208	2.292	2.191	2.272	2.130	2.171	2.024	2.091	2.005	2.136
72.0	0.4558	0.4811	0.4034	0.4052	0.3637	0.3900	0.3761	0.3857	0.3567	0.3813
75.0	0.2059	0.1835	0.1950	0.1770	0.1971	0.1770	0.1971	0.1814	0.1950	0.1792
78.0	0.1532	0.1333	0.1531	0.1333	0.1576	0.1355	0.1597	0.1399	0.1554	0.1377
81.0	0.1225	0.0983	0.1203	0.0984	0.1291	0.1049	0.1269	0.1049	0.1269	0.1049
84.0	0.0898	0.0699	0.0942	0.0765	0.1028	0.0786	0.1007	0.0830	0.1007	0.0787
87.0	0.0744	0.0656	0.0766	0.0634	0.0788	0.0656	0.0810	0.0678	0.0788	0.0678
90.0	0.0656	0.0656	0.0656	0.0612	0.0678	0.0656	0.0700	0.0678	0.0700	0.0678
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5387	5393	5410	5403	5401	5399	5393	5396	5388	5393
3.0	5058	5093	5148	5148	5176	5178	5215	5216	5246	5245
6.0	4518	4551	4606	4582	4604	4574	4607	4601	4654	4658
9.0	3911	3934	3976	3920	3917	3867	3895	3881	3933	3938
12.0	3293	3307	3341	3288	3282	3232	3241	3204	3247	3244
15.0	2650	2663	2686	2621	2606	2561	2569	2527	2576	2553
18.0	1973	1973	1982	1911	1900	1836	1836	1814	1872	1860
21.0	1303	1289	1288	1206	1195	1144	1152	1146	1197	1208
24.0	778.2	758.1	740.7	696.2	691.3	658.8	672.6	662.1	703.4	719.7
27.0	462.0	447.1	438.5	409.6	404.7	386.9	391.8	386.6	410.0	424.9
30.0	294.9	283.0	283.1	262.6	256.7	245.9	245.1	241.1	252.3	261.3
33.0	198.8	188.9	187.0	176.6	172.8	167.6	167.8	163.3	167.8	171.5
36.0	137.1	132.1	132.1	126.4	127.0	123.4	123.5	119.9	121.2	121.9
39.0	102.9	98.72	97.96	95.78	96.08	94.92	94.29	91.80	91.86	92.16
42.0	84.22	80.85	79.53	77.44	77.23	76.56	76.21	73.96	73.43	73.94
45.0	70.05	67.67	66.67	65.02	64.89	64.47	64.52	62.67	62.05	62.77
48.0	53.60	52.97	53.28	52.36	53.12	53.01	53.74	52.19	51.90	52.17
51.0	36.73	36.95	37.75	37.43	38.59	38.82	39.87	38.59	38.45	38.37
54.0	22.26	22.87	23.73	23.58	24.75	25.00	26.09	25.19	25.26	25.01
57.0	14.13	14.27	14.61	14.55	15.12	15.37	16.04	15.65	15.71	15.60
60.0	10.33	10.39	10.55	10.43	10.75	10.79	11.25	11.08	11.27	11.15
63.0	7.515	7.572	7.762	7.692	7.895	7.921	8.081	8.009	8.096	8.027
66.0	4.810	4.897	5.102	5.080	5.315	5.327	5.463	5.334	5.415	5.338
69.0	2.106	2.250	2.471	2.443	2.589	2.565	2.682	2.596	2.676	2.585
72.0	0.3943	0.4941	0.6022	0.6037	0.6605	0.6173	0.6669	0.6193	0.6347	0.5975
75.0	0.1971	0.1835	0.1899	0.2036	0.1878	0.2058	0.1921	0.2058	0.1834	0.1949
78.0	0.1554	0.1377	0.1333	0.1531	0.1289	0.1553	0.1333	0.1553	0.1311	0.1444
81.0	0.1247	0.1049	0.1005	0.1182	0.0983	0.1203	0.0983	0.1182	0.0961	0.1138
84.0	0.0985	0.0808	0.0764	0.0875	0.0699	0.0898	0.0677	0.0897	0.0699	0.0854
87.0	0.0788	0.0678	0.0568	0.0700	0.0525	0.0700	0.0525	0.0678	0.0547	0.0678
90.0	0.0700	0.0678	0.0547	0.0547	0.0525	0.0547	0.0525	0.0547	0.0547	0.0547
G/C	300.0	315.0	330.0	345.0						
0.0	5389	5393	5387	5393						
3.0	5275	5265	5274	5240						
6.0	4722	4715	4741	4713						
9.0	4019	4022	4076	4057						
12.0	3318	3347	3401	3406						
15.0	2624	2640	2720	2739						
18.0	1927	1929	2021	2050						
21.0	1261	1267	1365	1382						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-05-31

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	769.5	783.2	839.8	858.4
27.0	455.4	466.9	497.0	518.8
30.0	279.7	286.3	305.2	310.9
33.0	179.4	182.9	193.9	196.4
36.0	127.3	126.4	134.1	133.5
39.0	94.47	94.83	98.21	101.2
42.0	76.06	76.51	79.23	83.29
45.0	64.77	64.98	67.41	70.91
48.0	53.98	53.55	55.59	57.15
51.0	39.69	38.83	40.12	40.50
54.0	25.84	24.93	25.52	25.31
57.0	15.92	15.35	15.44	15.31
60.0	11.36	10.95	10.93	10.61
63.0	8.131	7.996	8.024	7.829
66.0	5.459	5.321	5.373	5.146
69.0	2.647	2.519	2.562	2.397
72.0	0.6082	0.5386	0.5779	0.5251
75.0	0.1812	0.1949	0.1790	0.2036
78.0	0.1267	0.1488	0.1288	0.1510
81.0	0.0960	0.1116	0.0917	0.1160
84.0	0.0634	0.0832	0.0634	0.0875
87.0	0.0503	0.0656	0.0547	0.0678
90.0	0.0525	0.0547	0.0547	0.0547

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-05-31

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: