

GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Spotlight KENZO Series K1X70-13W-940-15D



Light Output Ratio:	100.0%	
Luminaire Power:	14.21 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: 2017-05-19

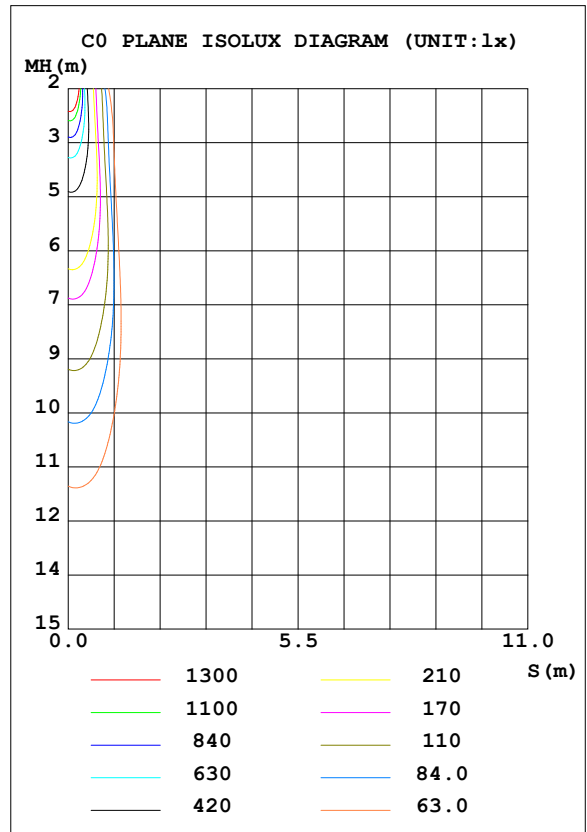
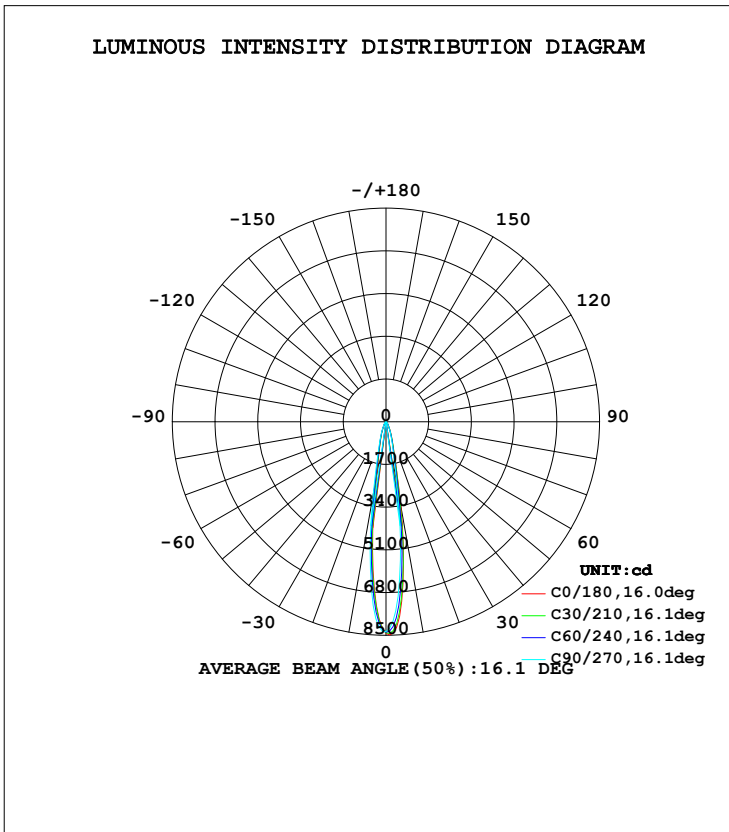
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.0676A P:14.21W PF:0.9524 Lamp Flux:1173.15x1 lm		
NAME: K1X70-13W-940-15D	TYPE:Spotlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H138mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.57 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	8486	S/MH (C0/180)	0.25
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.28
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1173.1	η UP, DN (C0-180)	0.0, 49.3
NOMINAL FLUX (lm)	1173.15	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.7
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: 2017-05-19

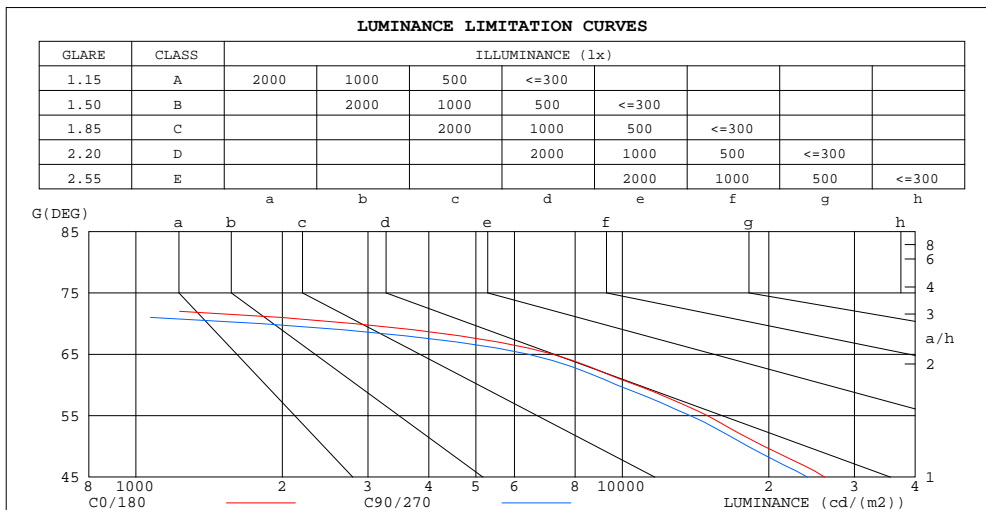
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	3381	3172	2490	2111	2145	2367	2961	3336	0- 10	493.6	493.6	42.1,42.1
20	661.7	650.8	595.4	547.7	539.4	562.6	628.4	674.5	10- 20	333.1	826.6	70.5,70.5
30	221.7	218.6	198.0	183.5	185.1	192.2	210.9	221.3	20- 30	163.7	990.4	84.4,84.4
40	101.9	99.87	94.01	89.51	90.25	92.85	98.62	102.2	30- 40	86.53	1077	91.8,91.8
50	51.21	49.98	47.47	45.44	45.80	46.67	50.13	51.78	40- 50	54.49	1131	96.4,96.4
60	21.71	20.89	19.81	18.69	19.33	19.60	21.60	22.12	50- 60	29.75	1161	99,99
70	3.916	3.568	2.522	1.879	1.991	2.361	3.656	4.265	60- 70	11.24	1172	99.9,99.9
80	0.1948	0.1660	0.1598	0.1223	0.1070	0.1335	0.1354	0.1773	70- 80	0.6845	1173	100,100
90	0.0656	0.0525	0.0547	0.0525	0.0350	0.0350	0.0350	0.0459	80- 90	0.0909	1173	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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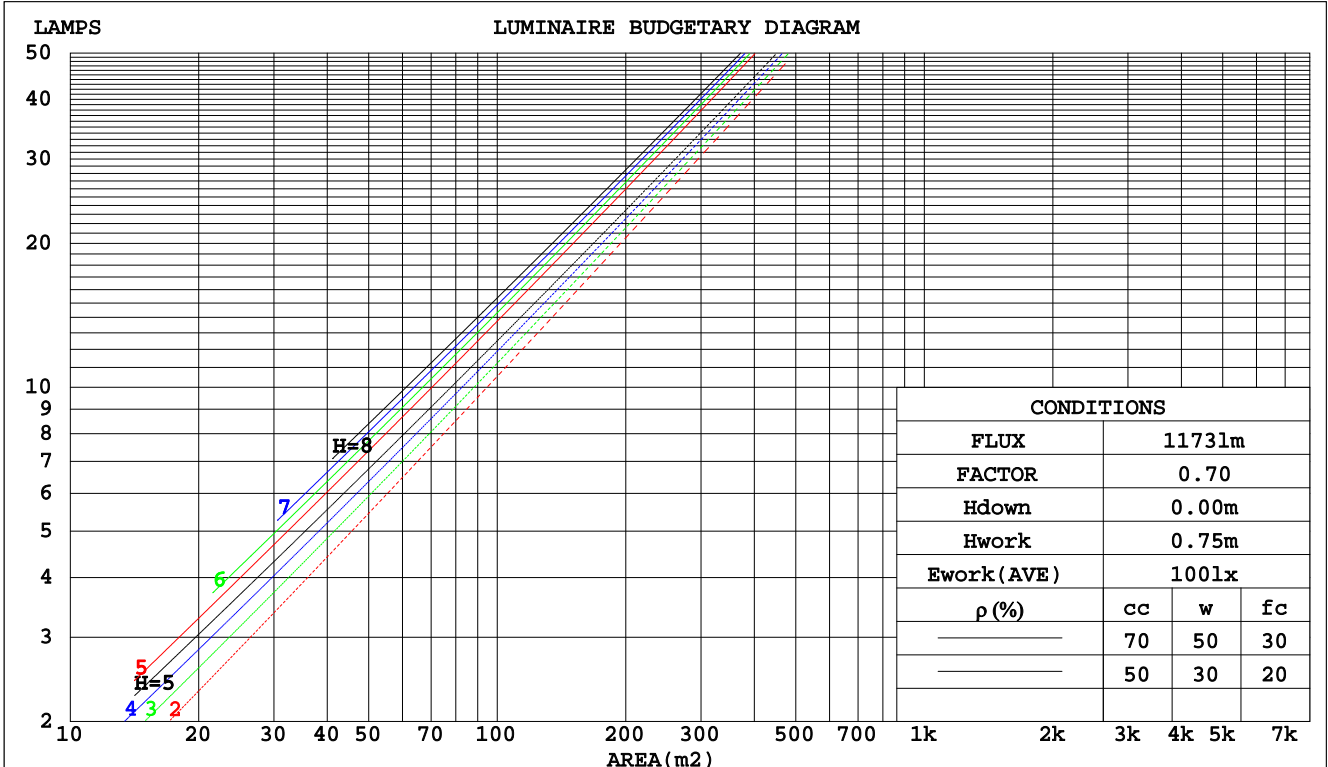
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: K1X70-13W-940-15D	TYPE:Spotlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H138mm	
MFR.: NEKO LIGHTING AG		

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw	20%			20%			20%			20%			20%			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	1.09	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.01	1.00	.99	.98	.98	.96
2.0	1.07	1.03	1.01	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.97	.94	1.00	.96	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.93	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.85
5.0	.93	.89	.85	.92	.88	.85	.90	.87	.84	.89	.86	.83	.88	.85	.83	.82
6.0	.90	.85	.82	.89	.85	.81	.87	.84	.81	.86	.83	.80	.85	.82	.80	.79
7.0	.86	.82	.79	.86	.82	.79	.85	.81	.78	.84	.80	.78	.83	.80	.77	.76
8.0	.84	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.74
9.0	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.78	.75	.73	.72
10.0	.79	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.77	.74	.71	.70



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WEC AND CCEC

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ρ _{cc}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.146	.083	.026	.140	.080	.025	.127	.073	.023	.116	.067	.021	.105	.061	.020	
2.0	.138	.075	.023	.132	.073	.022	.122	.068	.021	.112	.063	.020	.104	.059	.018	
3.0	.129	.069	.021	.124	.067	.020	.116	.063	.019	.108	.059	.018	.100	.056	.017	
4.0	.121	.063	.018	.117	.061	.018	.110	.058	.017	.103	.055	.017	.097	.052	.016	
5.0	.114	.058	.017	.110	.057	.017	.104	.054	.016	.098	.052	.015	.093	.050	.015	
6.0	.107	.054	.015	.104	.053	.015	.099	.051	.015	.094	.049	.014	.089	.047	.014	
7.0	.101	.050	.014	.099	.049	.014	.094	.048	.014	.090	.046	.013	.086	.044	.013	
8.0	.096	.047	.013	.094	.046	.013	.090	.045	.013	.086	.044	.013	.082	.042	.012	
9.0	.091	.044	.012	.089	.044	.012	.086	.042	.012	.082	.041	.012	.079	.040	.012	
10.0	.087	.042	.012	.085	.041	.012	.082	.040	.011	.079	.039	.011	.076	.038	.011	

ρ _{cc}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	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	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.077	.107	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.065	.099	.074	.056	.068	.052	.040	.039	.031	.024	.013	.010	.008	
6.0	.106	.076	.054	.091	.066	.047	.063	.046	.034	.037	.027	.020	.012	.009	.007	
7.0	.099	.068	.047	.085	.059	.041	.059	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.092	.061	.040	.079	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.056	.035	.074	.048	.030	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.031	.070	.044	.027	.049	.031	.019	.028	.018	.011	.009	.006	.004	

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 Humidity:52%
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UGR(Unified Glare Rating) Table

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NAME: K1X70-13W-940-15D	TYPE:Spotlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H138mm	
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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	17.3	18.0	17.5	18.1	18.3	16.9	17.6	17.1	17.8	17.9
3H	17.3	18.0	17.5	18.2	18.3	16.9	17.6	17.2	17.8	18.0
4H	17.2	17.9	17.5	18.1	18.3	16.8	17.5	17.1	17.7	17.9
6H	17.1	17.7	17.4	18.0	18.2	16.8	17.4	17.0	17.6	17.8
8H	17.1	17.7	17.4	17.9	18.2	16.7	17.3	17.0	17.5	17.8
12H	17.0	17.6	17.4	17.9	18.1	16.7	17.2	17.0	17.5	17.8
4H 2H	17.3	17.9	17.6	18.1	18.3	17.0	17.6	17.2	17.8	18.0
3H	17.3	17.9	17.6	18.1	18.4	17.0	17.5	17.3	17.8	18.1
4H	17.2	17.7	17.6	18.0	18.3	16.9	17.4	17.2	17.7	18.0
6H	17.1	17.6	17.5	17.9	18.2	16.8	17.2	17.2	17.6	17.9
8H	17.1	17.5	17.5	17.8	18.2	16.7	17.1	17.1	17.5	17.9
12H	17.0	17.4	17.4	17.8	18.2	16.7	17.1	17.1	17.4	17.8
8H 4H	17.1	17.5	17.5	17.8	18.2	16.7	17.2	17.1	17.5	17.9
6H	17.0	17.3	17.4	17.7	18.1	16.6	17.0	17.0	17.4	17.8
8H	16.9	17.2	17.4	17.6	18.1	16.6	16.9	17.0	17.3	17.7
12H	16.8	17.1	17.3	17.6	18.0	16.5	16.8	17.0	17.2	17.7
12H 4H	17.0	17.4	17.4	17.8	18.2	16.7	17.1	17.1	17.4	17.8
6H	16.9	17.2	17.4	17.6	18.1	16.6	16.9	17.0	17.3	17.7
8H	16.8	17.1	17.3	17.6	18.0	16.5	16.8	17.0	17.2	17.7
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 2.3					+ 1.4 / - 2.5				
1.5H	+ 1.4 / - 1.4					+ 1.3 / - 1.3				
2.0H	+ 2.8 / - 3.0					+ 2.7 / - 3.0				

CIE Pub.117 Corrected 1173 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.6)

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 Humidity:52%
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UTILIZATION FACTORS TABLE

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SPEC.:4000K	DIM.: φ110mm*H138mm	
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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	86	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	103	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	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):

1107.5 lm

%lum = 94.4%

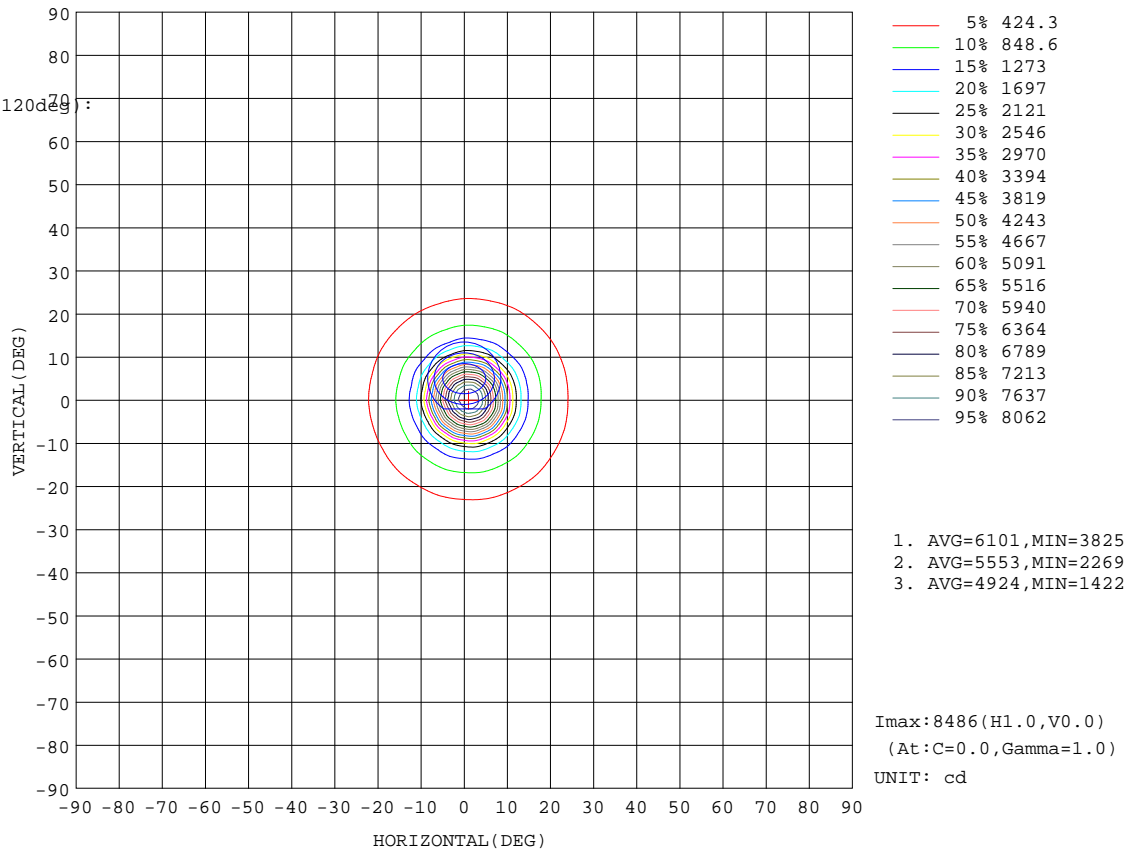
%lamp = 94.4%

Conical surface Flux(120deg):

1161.1 lm

%lum = 99.0%

%lamp = 99.0%



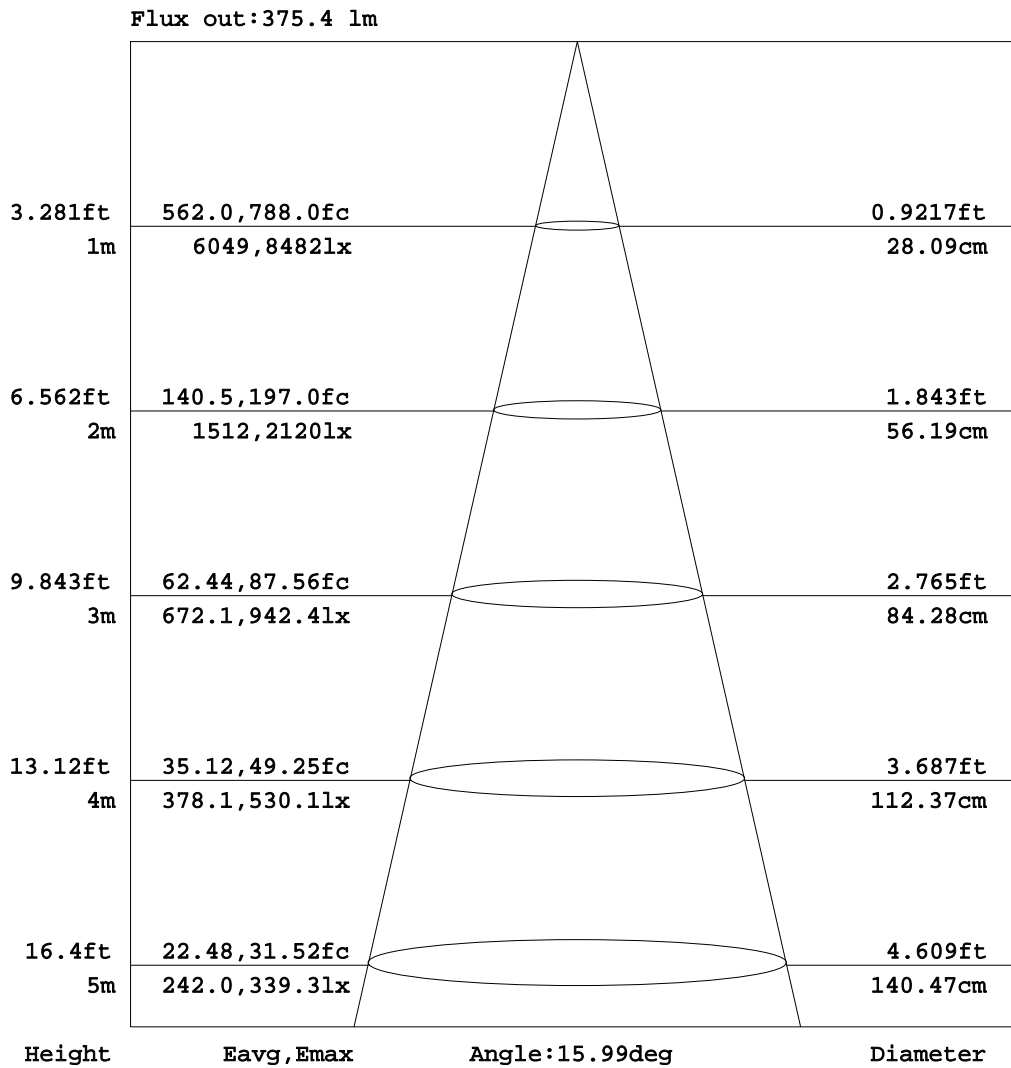
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AAI Figure

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

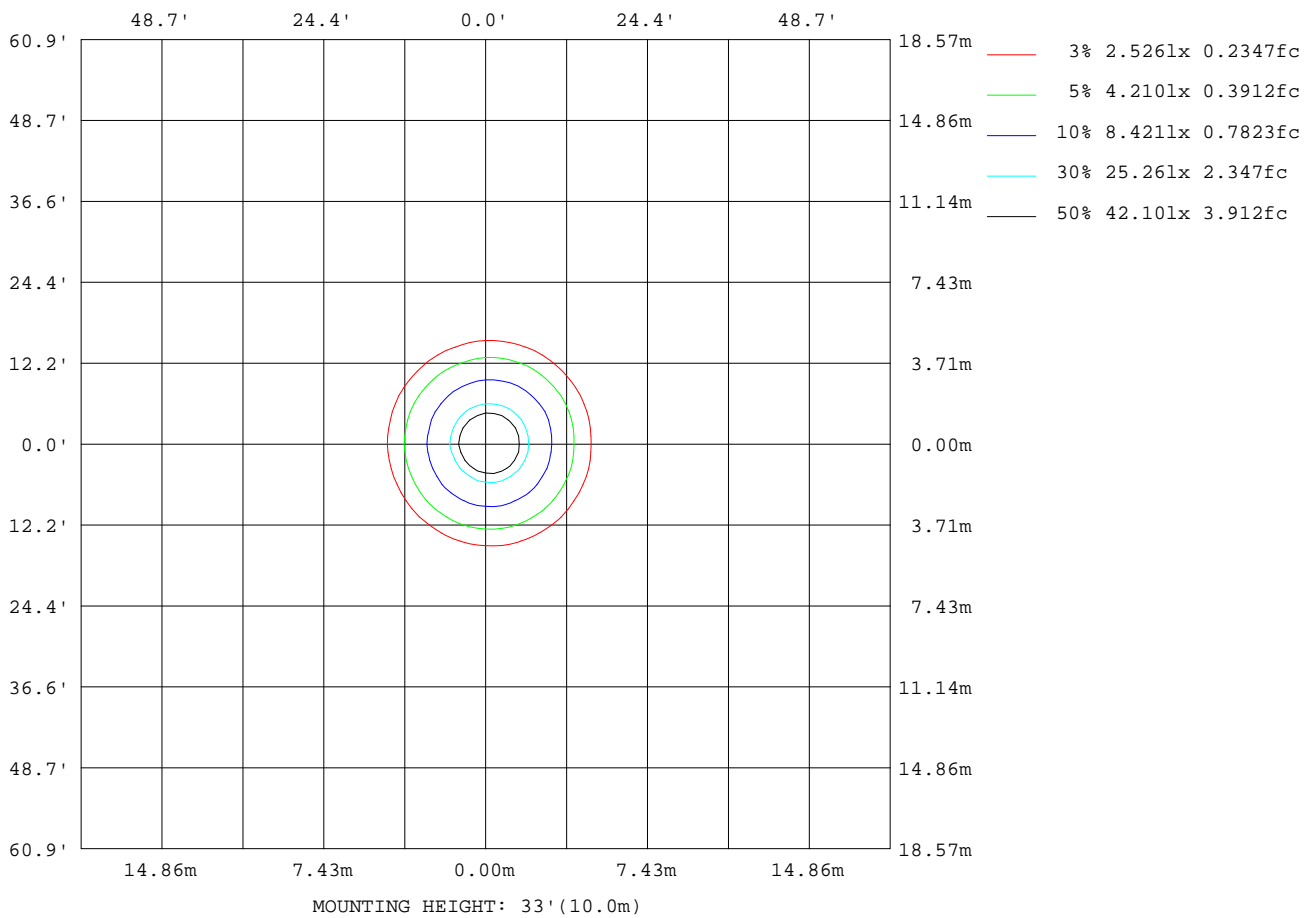
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ISOLUX DIAGRAM

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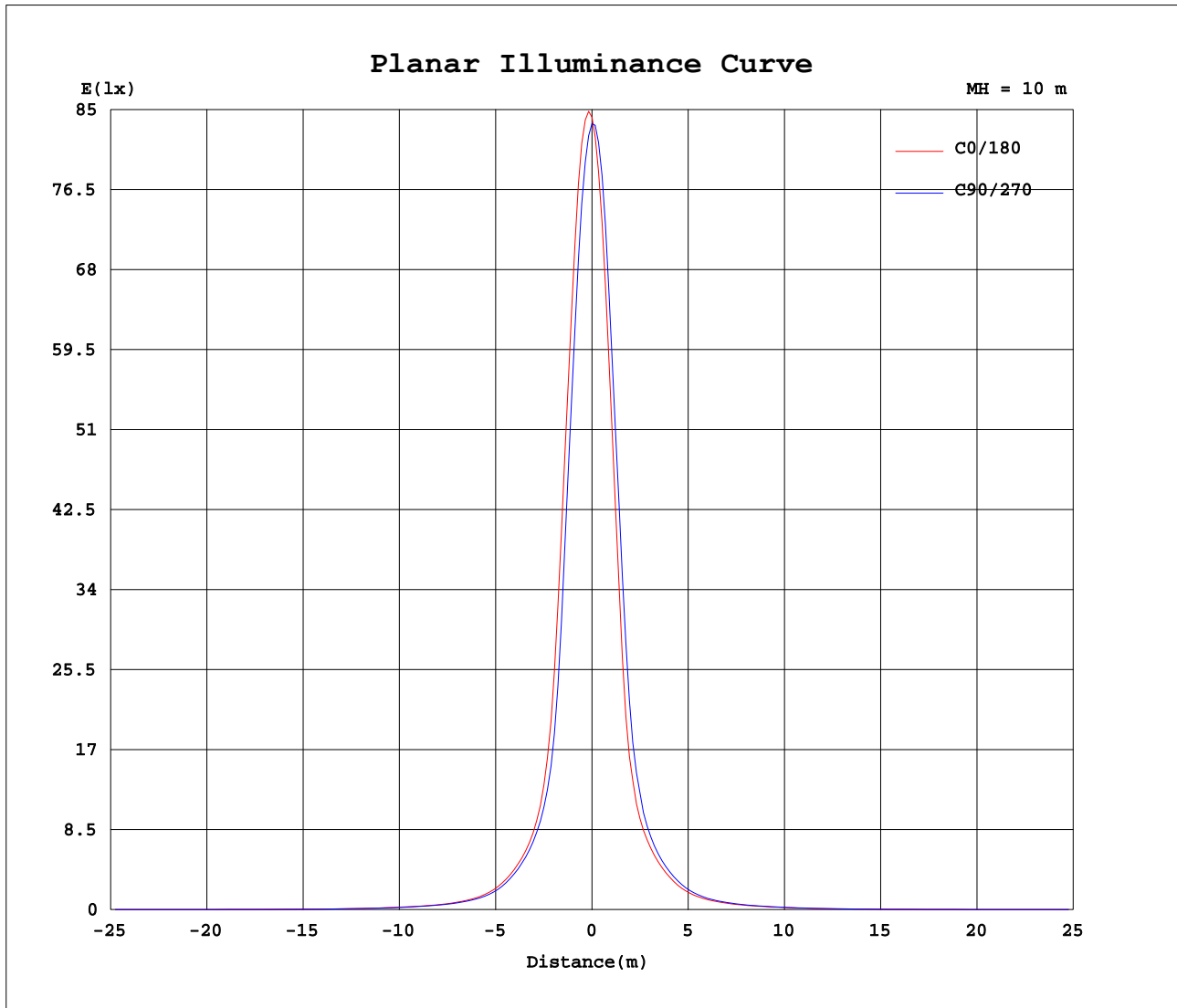


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Planar Illuminance Curve



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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	8421	8396	8400	8377	8375	8362	8351	8354	8339	8351
3.0	8176	8170	8055	7993	7818	7736	7533	7449	7267	7258
6.0	6480	6551	6385	6320	6023	5868	5528	5383	5127	5102
9.0	4164	4246	4029	3977	3643	3520	3172	3028	2752	2721
12.0	2142	2170	2054	2008	1846	1783	1631	1562	1463	1478
15.0	1230	1232	1198	1192	1126	1105	1045	1021	976.5	965.3
18.0	828.4	829.2	815.4	816.4	784.1	771.1	738.3	725.2	694.5	685.7
21.0	598.9	595.6	587.8	583.2	566.5	554.8	531.4	520.4	497.1	489.3
24.0	426.5	429.6	420.6	418.5	403.8	397.4	378.4	368.0	349.1	343.6
27.0	302.7	305.5	299.5	297.9	287.1	281.4	267.3	259.2	247.5	244.6
30.0	221.7	223.6	219.8	218.6	211.3	207.2	198.0	193.0	185.4	183.5
33.0	169.4	170.3	167.7	166.6	161.7	158.9	153.1	149.7	144.8	143.5
36.0	134.0	134.9	132.6	132.3	128.2	126.7	122.3	119.9	117.0	115.7
39.0	108.8	108.7	107.6	106.7	104.3	102.5	100.0	98.20	96.01	95.13
42.0	90.12	89.91	89.05	88.26	86.60	85.36	83.48	82.10	80.26	79.51
45.0	75.00	74.91	73.86	73.33	71.81	70.85	69.17	68.07	66.36	66.01
48.0	60.02	60.15	58.80	58.55	57.06	56.56	55.15	54.46	52.78	52.75
51.0	47.34	47.31	46.39	46.23	45.31	45.06	44.11	43.63	42.32	42.24
54.0	37.72	37.72	36.96	36.82	36.07	35.98	35.12	34.74	33.59	33.53
57.0	29.22	29.21	28.50	28.25	27.57	27.51	26.80	26.50	25.50	25.36
60.0	21.71	21.68	21.09	20.89	20.34	20.35	19.81	19.63	18.81	18.69
63.0	15.79	15.78	15.42	15.28	14.86	14.93	14.51	14.34	13.59	13.47
66.0	10.62	10.64	10.26	10.18	9.671	9.667	9.161	8.962	8.146	8.047
69.0	5.416	5.433	5.069	5.040	4.550	4.365	3.878	3.640	3.113	3.075
72.0	1.546	1.554	1.373	1.358	1.070	0.8885	0.6784	0.5995	0.5016	0.4885
75.0	0.3556	0.3493	0.3402	0.3231	0.3093	0.2774	0.2718	0.2469	0.2476	0.2250
78.0	0.2342	0.2163	0.2277	0.2054	0.2211	0.1901	0.1992	0.1748	0.1839	0.1595
81.0	0.1751	0.1573	0.1707	0.1463	0.1620	0.1332	0.1423	0.1179	0.1292	0.1070
84.0	0.1270	0.1070	0.1248	0.0961	0.1161	0.0852	0.1029	0.0720	0.0898	0.0655
87.0	0.0898	0.0677	0.0854	0.0590	0.0788	0.0525	0.0679	0.0503	0.0635	0.0525
90.0	0.0656	0.0612	0.0590	0.0525	0.0503	0.0503	0.0547	0.0503	0.0525	0.0525
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	8333	8355	8421	8396	8400	8377	8375	8362	8351	8354
3.0	7131	7179	7331	7287	7413	7422	7586	7644	7830	7921
6.0	4937	4984	5161	5109	5304	5334	5585	5658	5935	6047
9.0	2552	2611	2773	2736	2949	3007	3278	3367	3670	3791
12.0	1374	1413	1469	1421	1514	1555	1683	1738	1899	1977
15.0	924.8	920.0	935.9	929.1	972.2	987.9	1046	1072	1145	1179
18.0	660.4	657.5	670.5	666.8	690.3	697.4	729.3	744.9	788.4	807.4
21.0	473.0	472.7	483.5	481.7	497.7	501.6	522.8	534.0	563.4	579.0
24.0	332.7	334.1	343.7	342.8	355.1	358.3	374.3	382.6	403.4	411.9
27.0	238.5	239.7	246.3	246.3	254.4	257.1	267.7	272.9	286.2	291.8
30.0	179.6	180.4	185.0	185.0	190.4	192.2	199.0	202.4	210.9	214.5
33.0	140.8	141.5	144.8	144.8	148.2	149.6	154.2	156.5	162.1	164.7
36.0	113.9	114.2	116.4	116.6	118.7	120.2	123.2	125.1	129.7	131.0
39.0	94.08	94.21	95.91	96.04	97.58	98.81	100.9	102.4	105.0	106.8
42.0	78.67	78.65	80.03	80.06	81.23	82.20	83.87	85.06	87.41	88.84
45.0	65.05	65.26	66.57	66.48	67.48	68.34	69.76	70.72	72.85	74.15
48.0	51.90	52.16	53.22	52.99	53.90	54.38	55.82	56.40	58.60	59.56
51.0	41.54	41.77	42.59	42.42	43.00	43.28	44.28	44.70	46.44	47.15
54.0	32.93	33.30	34.14	34.01	34.55	34.63	35.39	35.76	37.18	37.69
57.0	24.98	25.35	26.06	25.99	26.43	26.49	27.16	27.43	28.72	29.20
60.0	18.39	18.74	19.33	19.22	19.55	19.60	20.23	20.45	21.60	21.94
63.0	13.15	13.48	14.07	13.97	14.25	14.32	14.82	15.03	15.88	16.16
66.0	7.669	7.935	8.489	8.430	8.883	8.932	9.522	9.826	10.69	10.95
69.0	2.850	2.940	3.267	3.245	3.588	3.714	4.267	4.487	5.210	5.534
72.0	0.4704	0.4732	0.4947	0.5033	0.5404	0.5778	0.6306	0.6925	1.267	1.493
75.0	0.2365	0.2207	0.2118	0.2344	0.2205	0.2454	0.2445	0.2719	0.2945	0.3401
78.0	0.1730	0.1507	0.1463	0.1685	0.1463	0.1707	0.1594	0.1860	0.1790	0.2057
81.0	0.1226	0.1005	0.0938	0.1116	0.0917	0.1160	0.1025	0.1248	0.1179	0.1444
84.0	0.0876	0.0633	0.0567	0.0723	0.0523	0.0766	0.0610	0.0832	0.0677	0.0985
87.0	0.0570	0.0525	0.0371	0.0460	0.0328	0.0482	0.0350	0.0526	0.0372	0.0613
90.0	0.0525	0.0525	0.0350	0.0350	0.0350	0.0350	0.0350	0.0350	0.0350	0.0394
G/C	300.0	315.0	330.0	345.0						
0.0	8339	8351	8333	8355						
3.0	8073	8116	8199	8196						
6.0	6311	6361	6562	6546						
9.0	4055	4086	4280	4261						
12.0	2125	2136	2236	2209						
15.0	1251	1256	1326	1271						
18.0	848.3	851.2	872.4	858.3						
21.0	601.0	602.6	616.7	608.1						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-05-19

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	429.6	430.6	440.3	435.7
27.0	303.1	303.7	310.5	307.9
30.0	221.4	221.3	226.1	224.5
33.0	169.1	169.0	172.0	171.2
36.0	134.5	133.8	136.2	135.4
39.0	108.8	109.0	110.1	110.1
42.0	90.15	90.42	91.20	91.11
45.0	75.03	75.29	75.93	75.84
48.0	60.54	60.51	61.36	60.91
51.0	47.91	47.86	48.55	48.21
54.0	38.17	38.07	38.54	38.38
57.0	29.64	29.46	30.00	29.87
60.0	22.33	22.12	22.46	22.37
63.0	16.41	16.26	16.46	16.36
66.0	11.26	11.14	11.37	11.21
69.0	5.915	5.851	6.114	5.948
72.0	1.776	1.780	1.948	1.834
75.0	0.3707	0.3859	0.3903	0.3793
78.0	0.1943	0.2232	0.2096	0.2298
81.0	0.1288	0.1597	0.1441	0.1707
84.0	0.0829	0.1116	0.0938	0.1204
87.0	0.0458	0.0723	0.0567	0.0810
90.0	0.0394	0.0459	0.0437	0.0481

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-05-19

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: