

GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Spotlight KENZO Series K1X70-13W-930-30D



Light Output Ratio:	100.0%	
Luminaire Power:	14.45 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: 2017-05-31

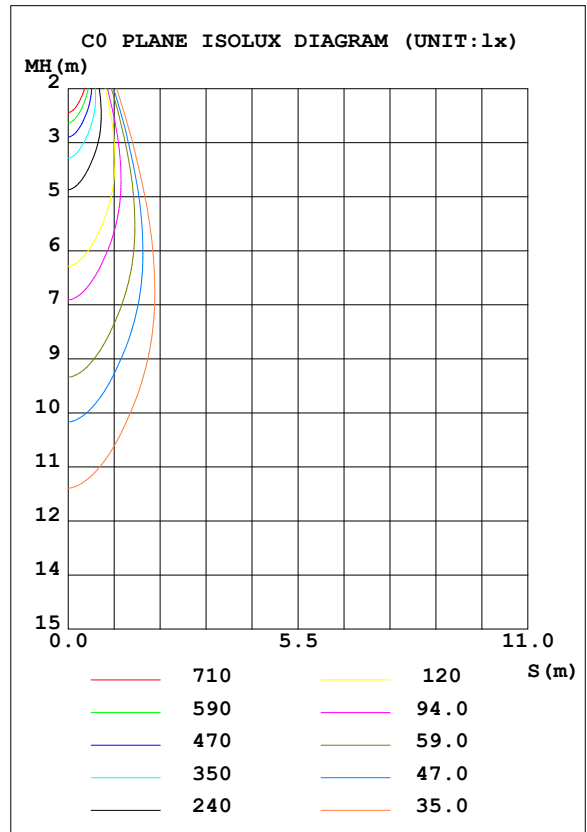
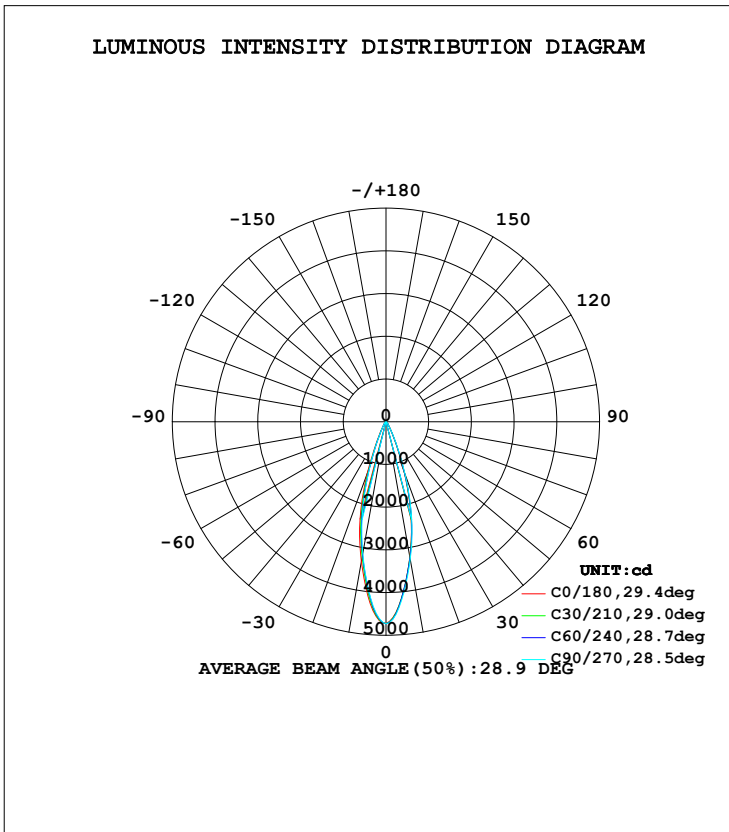
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.0685A P:14.45W PF:0.9551 Lamp Flux:1361.99x1 lm		
NAME: K1X70-13W-930-30D	TYPE:Spotlight	SERIAL No.:
SPEC.:3000K	DIM.: φ110mm*H138mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.29 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	4727	S/MH (C0/180)	0.50
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.46
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1362.0	η UP, DN (C0-180)	0.0, 51.8
NOMINAL FLUX (lm)	1361.99	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.2
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



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

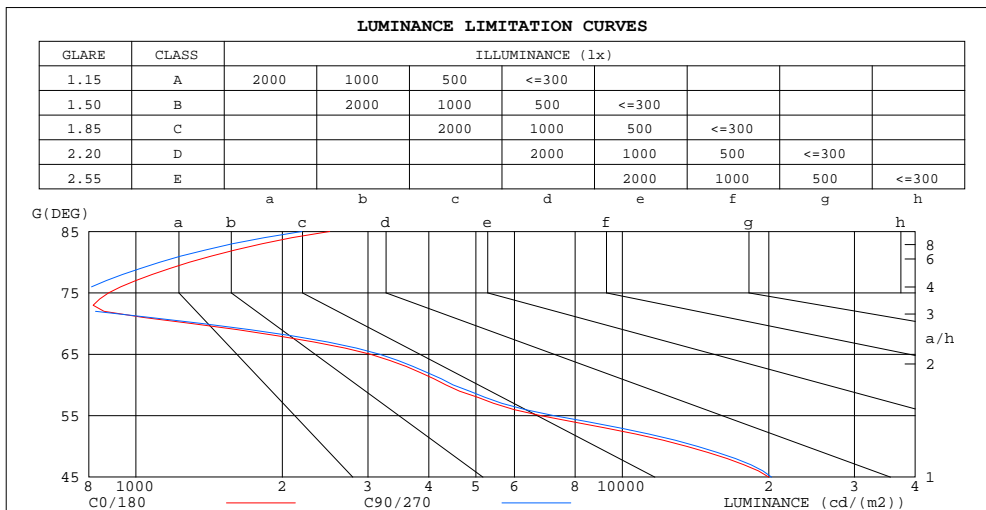
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\#lum, lamp$
10	3225	3246	3273	3348	3328	3154	3133	3161	0- 10	368.3	368.3	27,27
20	1239	1278	1309	1324	1271	1078	1065	1086	10- 20	602.4	970.8	71.3,71.3
30	219.3	226.7	237.1	245.0	222.2	187.0	189.1	202.0	20- 30	249.7	1220	89.6,89.6
40	75.24	75.39	76.29	74.74	71.93	69.00	66.96	68.85	30- 40	75.09	1296	95.1,95.1
50	35.49	36.95	37.35	37.03	36.44	35.80	33.78	33.79	40- 50	41.78	1337	98.2,98.2
60	8.831	9.412	9.132	9.386	9.545	9.402	9.327	9.177	50- 60	16.81	1354	99.4,99.4
70	1.820	2.189	1.913	2.370	2.388	2.359	2.073	2.127	60- 70	5.536	1360	99.8,99.8
80	0.9109	1.198	0.7915	1.279	0.9284	1.065	0.8593	1.106	70- 80	1.257	1361	99.9,99.9
90	0.8724	1.043	0.7674	0.9708	0.8986	0.9620	0.8549	1.036	80- 90	1.062	1362	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	2503	2195
80	1289	1120
75	878	768
70	1308	1374
65	3033	3168
60	4340	4488
55	6798	7235
50	13567	14279
45	20006	20257

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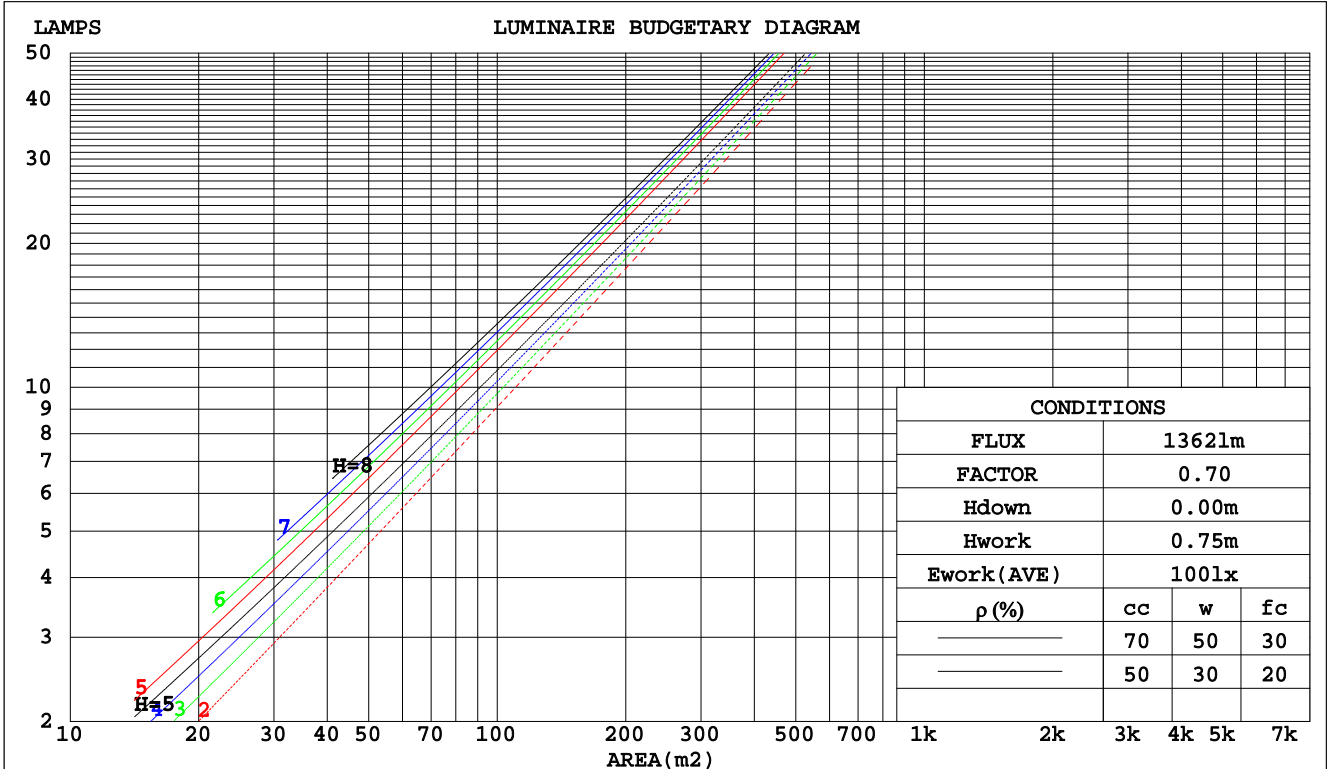
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	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	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.01	.99	.97	.99	.97	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.87
4.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.91	.88	.86	.90	.87	.85	.84
5.0	.92	.88	.84	.91	.87	.84	.90	.86	.83	.88	.85	.82	.87	.84	.82	.80
6.0	.88	.84	.80	.88	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.77
7.0	.85	.80	.77	.84	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.76	.75
8.0	.82	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.79	.75	.73	.72
9.0	.79	.74	.71	.79	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.71	.70
10.0	.76	.72	.69	.76	.72	.69	.75	.71	.69	.75	.71	.68	.74	.71	.68	.67



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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	.150	.085	.027	.143	.082	.026	.131	.075	.024	.119	.069	.022	.109	.063	.020	
2.0	.140	.077	.024	.135	.074	.023	.124	.069	.021	.115	.064	.020	.106	.060	.019	
3.0	.131	.070	.021	.127	.068	.020	.118	.064	.019	.110	.060	.019	.103	.057	.018	
4.0	.124	.064	.019	.120	.063	.019	.113	.060	.018	.106	.057	.017	.099	.054	.016	
5.0	.117	.060	.017	.114	.058	.017	.107	.056	.016	.101	.054	.016	.096	.051	.015	
6.0	.111	.056	.016	.108	.055	.016	.103	.053	.015	.097	.051	.015	.093	.049	.014	
7.0	.106	.052	.015	.103	.051	.015	.098	.050	.014	.094	.048	.014	.089	.046	.014	
8.0	.101	.049	.014	.098	.048	.014	.094	.047	.013	.090	.046	.013	.086	.044	.013	
9.0	.096	.047	.013	.094	.046	.013	.090	.045	.013	.087	.044	.012	.084	.042	.012	
10.0	.092	.044	.012	.090	.044	.012	.087	.043	.012	.084	.042	.012	.081	.041	.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	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.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	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.074	.056	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006	
8.0	.094	.062	.040	.081	.053	.034	.056	.038	.024	.033	.022	.015	.011	.007	.005	
9.0	.088	.056	.034	.076	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.051	.030	.072	.045	.026	.050	.031	.019	.029	.019	.011	.009	.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]
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UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0685A P:14.45W PF:0.9551 Lamp Flux:1361.99x1 lm		
NAME: K1X70-13W-930-30D	TYPE:Spotlight	SERIAL No.:
SPEC.:3000K	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	14.1	14.8	14.3	15.0	15.2	14.3	15.0	14.5	15.2	15.3
3H	14.0	14.7	14.3	14.9	15.1	14.2	14.9	14.4	15.1	15.3
4H	14.0	14.6	14.2	14.8	15.0	14.1	14.8	14.4	15.0	15.2
6H	13.9	14.5	14.2	14.7	15.0	14.0	14.7	14.3	14.9	15.1
8H	13.9	14.5	14.2	14.7	15.0	14.0	14.6	14.3	14.9	15.1
12H	13.8	14.4	14.2	14.7	14.9	14.0	14.6	14.3	14.8	15.1
4H 2H	14.0	14.7	14.3	14.9	15.1	14.2	14.8	14.4	15.0	15.2
3H	13.9	14.5	14.2	14.8	15.0	14.1	14.7	14.4	14.9	15.2
4H	13.9	14.4	14.2	14.7	15.0	14.0	14.5	14.3	14.8	15.1
6H	13.8	14.2	14.2	14.6	14.9	13.9	14.4	14.3	14.7	15.1
8H	13.8	14.2	14.1	14.5	14.9	13.9	14.3	14.3	14.7	15.0
12H	13.7	14.1	14.2	14.5	14.9	13.9	14.3	14.3	14.6	15.0
8H 4H	13.7	14.1	14.1	14.5	14.9	13.9	14.3	14.3	14.6	15.0
6H	13.7	14.0	14.1	14.4	14.8	13.8	14.2	14.2	14.6	15.0
8H	13.6	14.0	14.1	14.4	14.8	13.8	14.1	14.2	14.5	15.0
12H	13.7	13.9	14.1	14.4	14.8	13.8	14.1	14.3	14.5	15.0
12H 4H	13.7	14.1	14.1	14.4	14.8	13.8	14.2	14.2	14.6	15.0
6H	13.6	13.9	14.1	14.3	14.8	13.8	14.1	14.2	14.5	14.9
8H	13.6	13.9	14.1	14.3	14.8	13.8	14.0	14.2	14.5	14.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 4.3					+ 1.9 / - 4.2				
1.5H	+ 1.8 / - 4.1					+ 1.8 / - 4.0				
2.0H	+ 4.4 / - 4.3					+ 4.3 / - 4.4				

CIE Pub.117 Corrected 1362 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.1)

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UTILIZATION FACTORS TABLE

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SPEC.:3000K	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	88	82	79	88	82	79	87	82	78	75
0.80	96	90	87	95	90	86	94	89	86	82
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	106	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	95
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

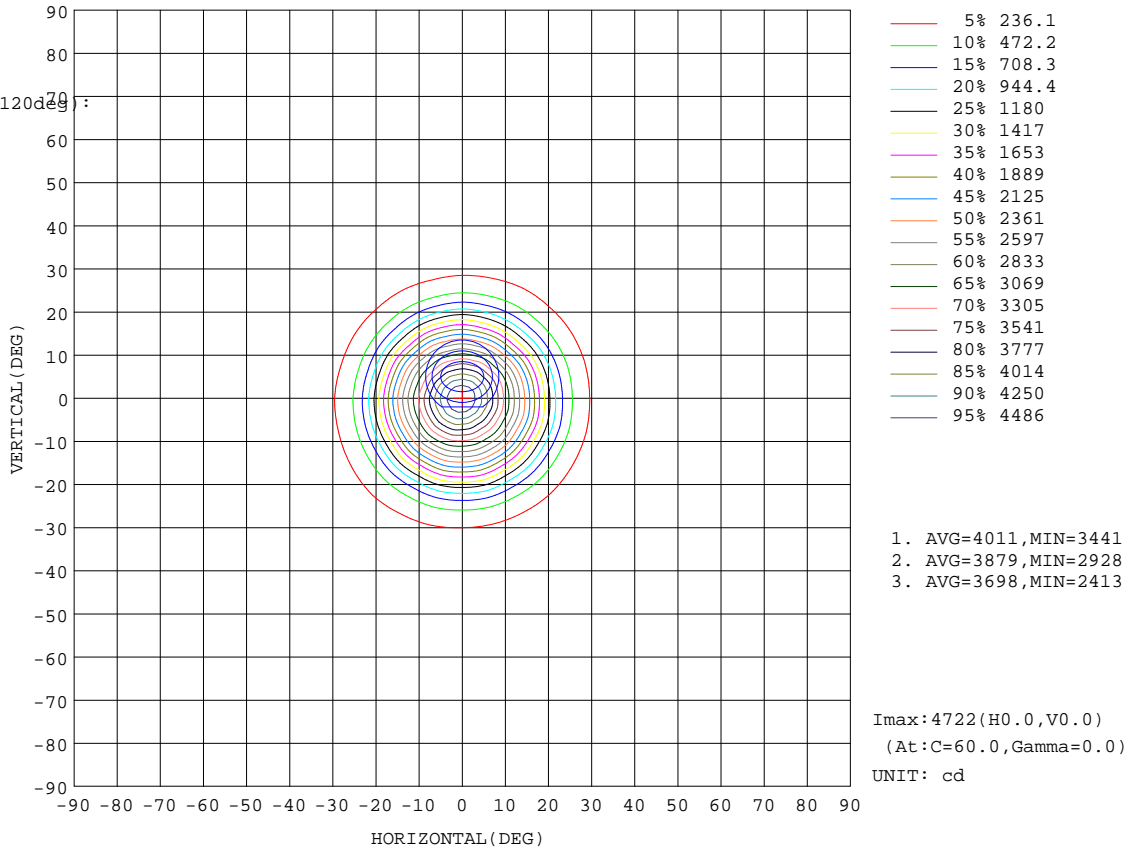
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Conical surface Flux(90deg):

1318.8 lm
%lum = 96.8%
%lamp = 96.8%

Conical surface Flux(120deg):

1354.1 lm
%lum = 99.4%
%lamp = 99.4%



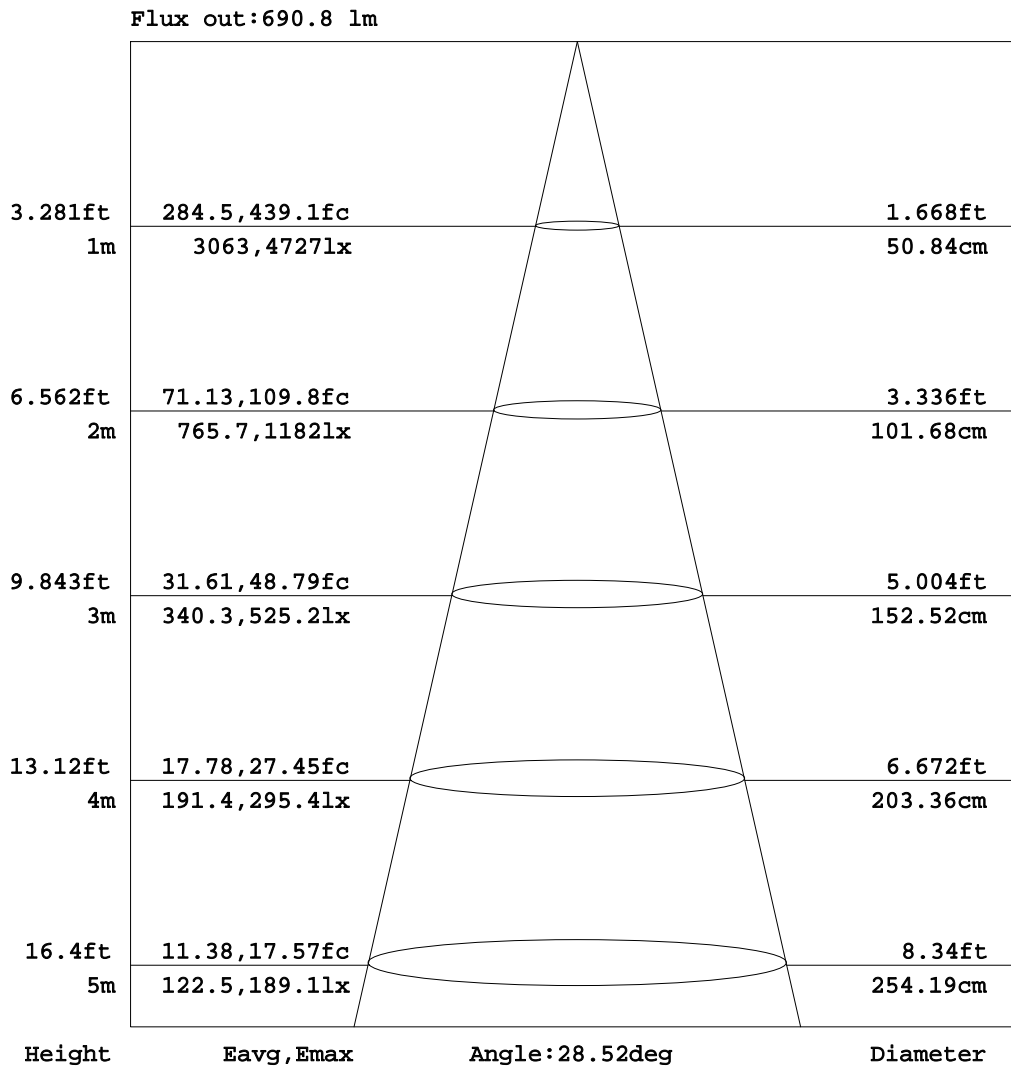
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AAI Figure

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

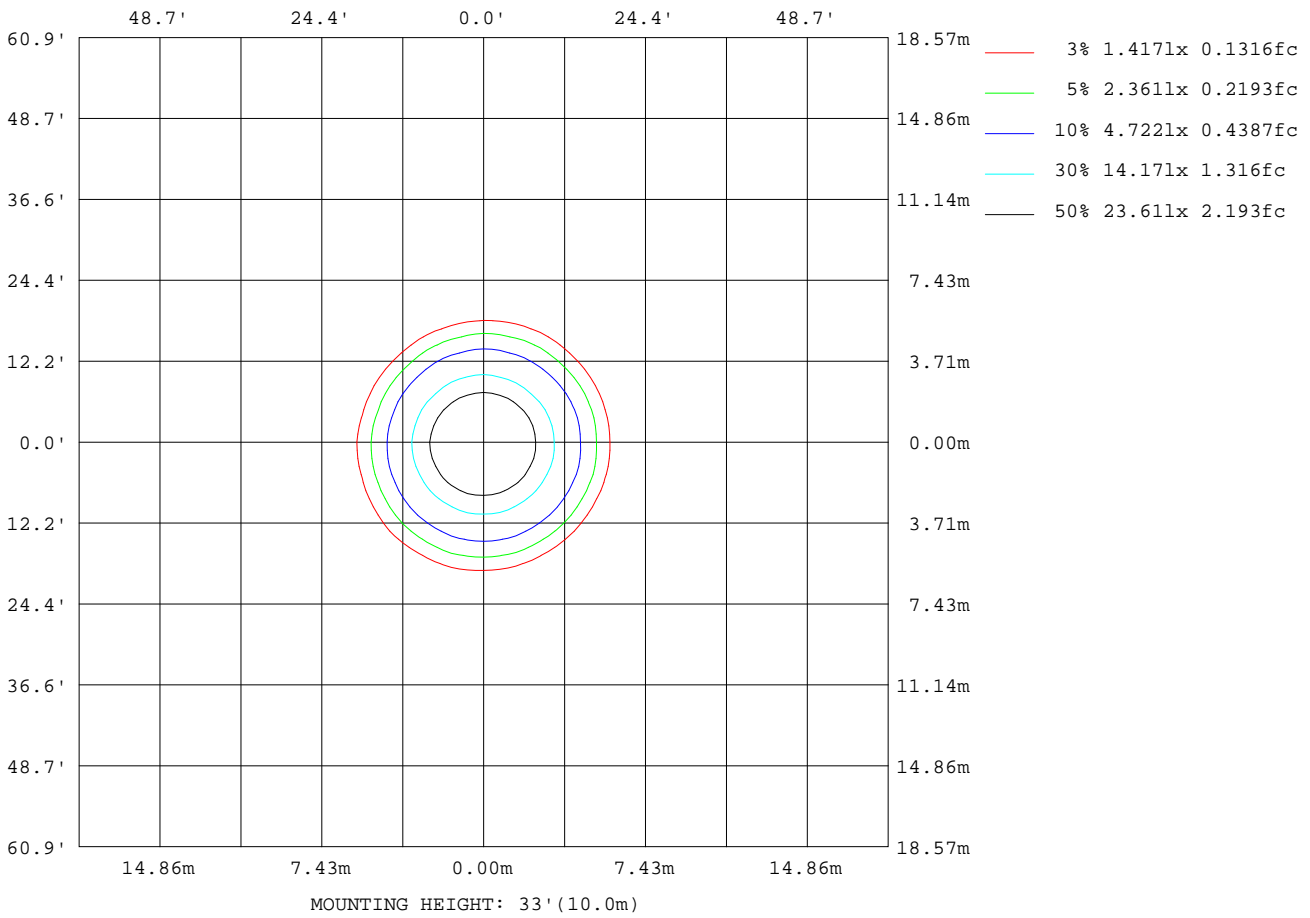
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ISOLUX DIAGRAM

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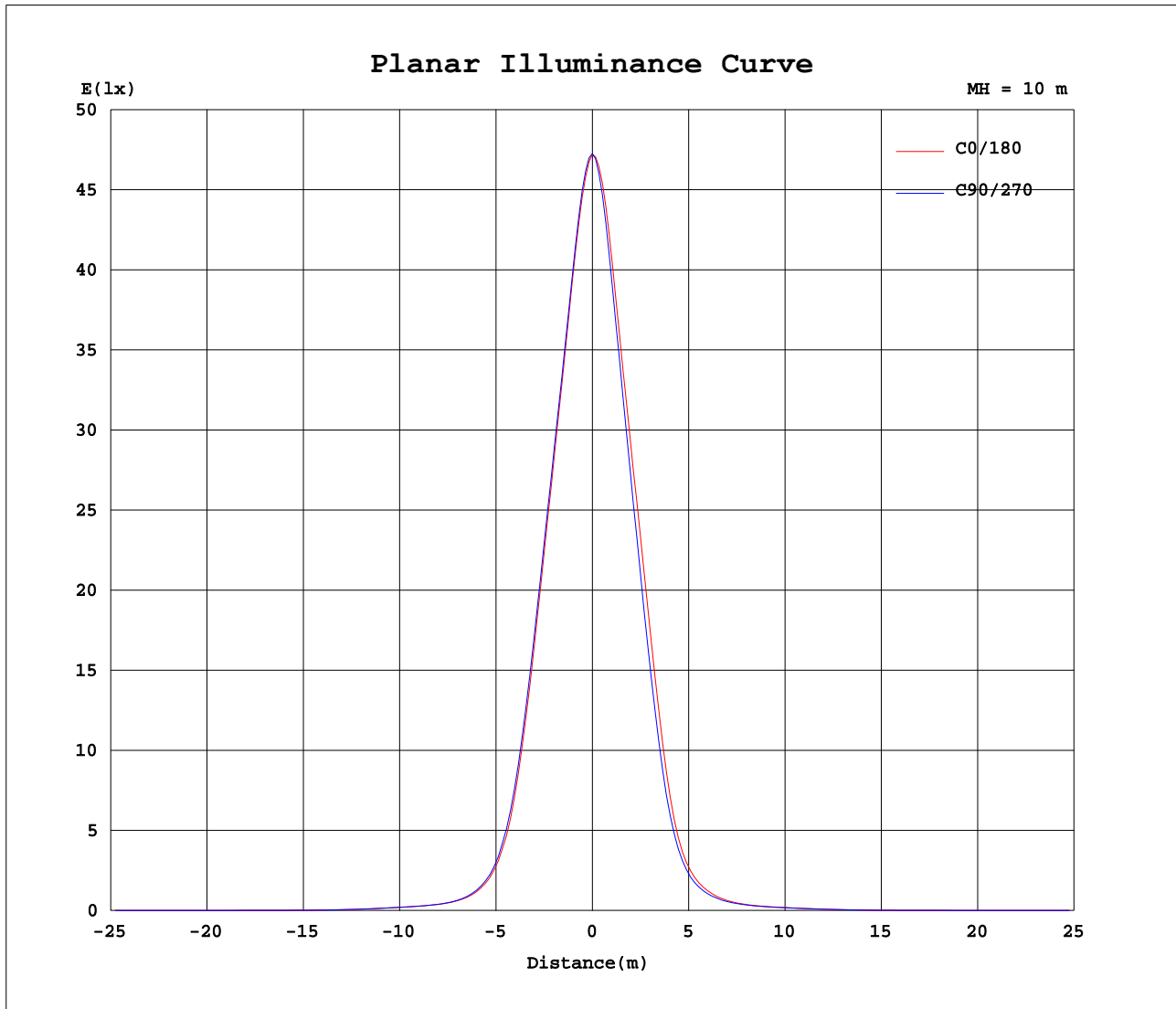


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Planar Illuminance Curve



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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	4722	4726	4726	4725	4727	4726	4727	4725	4726	4726
3.0	4472	4495	4483	4508	4498	4522	4513	4539	4533	4551
6.0	3979	4002	3973	3988	3973	4016	4015	4068	4067	4094
9.0	3408	3431	3407	3428	3414	3457	3454	3509	3511	3536
12.0	2843	2879	2860	2894	2875	2906	2903	2943	2945	2970
15.0	2253	2302	2275	2321	2301	2331	2319	2363	2345	2378
18.0	1631	1680	1659	1683	1673	1721	1707	1739	1708	1740
21.0	1055	1093	1075	1096	1085	1139	1123	1143	1099	1123
24.0	614.9	645.0	635.6	651.8	649.4	676.4	671.0	678.2	652.9	656.6
27.0	359.2	374.3	367.4	376.5	375.6	389.3	388.7	398.5	385.7	386.2
30.0	219.3	224.6	221.8	226.7	226.7	234.1	237.1	245.1	240.6	245.0
33.0	142.1	144.3	142.8	146.3	145.5	148.6	151.0	157.1	155.5	159.9
36.0	101.3	102.2	101.8	103.2	102.6	103.6	104.7	106.6	105.8	107.7
39.0	79.85	80.08	79.78	80.20	79.45	80.70	81.42	81.49	80.15	80.50
42.0	67.92	67.78	67.78	67.91	67.32	68.07	68.49	67.92	66.56	66.50
45.0	57.57	57.57	57.55	58.15	57.49	58.30	58.29	58.11	56.83	56.88
48.0	44.73	45.14	45.17	46.16	45.57	46.57	46.54	46.69	45.50	45.93
51.0	31.04	31.35	31.38	32.41	31.99	32.84	32.86	33.06	32.16	32.69
54.0	18.90	19.15	19.06	19.83	19.55	20.34	20.31	20.70	20.00	20.61
57.0	12.05	12.07	12.15	12.48	12.36	12.53	12.54	12.68	12.43	12.68
60.0	8.831	9.030	9.170	9.412	9.341	9.246	9.132	9.259	9.213	9.386
63.0	6.647	6.823	6.940	7.186	7.102	6.983	6.868	7.020	7.027	7.257
66.0	4.458	4.653	4.768	5.021	4.982	4.820	4.707	4.883	4.908	5.150
69.0	2.366	2.479	2.539	2.783	2.786	2.573	2.509	2.638	2.673	2.940
72.0	1.082	1.114	1.157	1.352	1.425	1.087	1.039	1.135	1.177	1.452
75.0	0.9251	0.9488	0.9995	1.218	1.312	0.8723	0.8093	0.8285	0.9186	1.262
78.0	0.9136	0.9380	0.9839	1.213	1.277	0.8671	0.7937	0.7936	0.8878	1.325
81.0	0.9096	0.9319	0.9709	1.183	1.198	0.8636	0.7872	0.7849	0.8681	1.231
84.0	0.8900	0.9292	0.9534	1.128	1.113	0.8548	0.7806	0.7801	0.8527	1.106
87.0	0.8833	0.9183	0.9380	1.071	1.043	0.8396	0.7718	0.7762	0.8418	1.032
90.0	0.8724	0.9074	0.9249	1.043	1.001	0.8418	0.7674	0.7784	0.8527	0.9708
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4725	4724	4722	4726	4726	4725	4727	4726	4727	4725
3.0	4535	4548	4557	4530	4531	4504	4505	4477	4484	4467
6.0	4068	4081	4090	4042	4026	3966	3970	3927	3943	3932
9.0	3507	3514	3513	3439	3417	3346	3357	3313	3338	3322
12.0	2935	2944	2944	2876	2842	2778	2763	2703	2722	2704
15.0	2342	2363	2358	2274	2241	2157	2146	2083	2089	2067
18.0	1701	1715	1706	1621	1592	1493	1490	1450	1462	1432
21.0	1082	1078	1071	991.6	965.5	897.2	897.1	875.9	890.4	880.2
24.0	626.4	617.2	603.1	566.5	536.8	511.5	507.0	492.9	510.2	514.1
27.0	366.5	357.6	351.2	322.1	308.7	290.2	291.8	285.6	296.6	300.6
30.0	232.2	223.4	222.2	204.0	196.9	187.0	187.1	182.7	189.1	192.3
33.0	152.1	146.3	146.4	138.0	135.7	129.8	131.0	125.7	129.2	129.4
36.0	103.8	101.5	102.7	99.75	98.46	96.20	96.00	92.70	93.06	93.09
39.0	78.64	77.27	77.66	76.13	75.49	74.36	73.91	71.93	72.09	72.17
42.0	65.35	63.91	63.76	62.34	61.53	60.72	60.72	58.96	59.17	59.34
45.0	55.98	54.76	54.46	52.91	52.57	51.91	51.97	50.25	50.19	50.50
48.0	45.11	44.52	44.59	43.57	43.81	43.28	43.18	41.39	41.08	40.92
51.0	32.00	31.94	32.37	31.70	32.23	31.90	31.96	30.37	30.08	29.54
54.0	20.15	20.36	20.86	20.36	20.87	20.53	20.75	19.58	19.37	18.84
57.0	12.51	12.58	12.85	12.64	12.92	12.92	13.14	12.65	12.57	12.40
60.0	9.272	9.268	9.545	9.324	9.517	9.402	9.519	9.298	9.327	9.195
63.0	7.071	7.036	7.259	7.117	7.274	7.252	7.244	7.045	7.010	6.898
66.0	4.997	4.997	5.146	5.052	5.236	5.179	5.144	4.913	4.853	4.742
69.0	2.935	2.911	3.021	2.942	3.133	2.964	2.894	2.725	2.676	2.581
72.0	1.542	1.355	1.409	1.412	1.748	1.443	1.324	1.226	1.156	1.149
75.0	1.368	1.010	0.9574	1.010	1.469	1.102	0.9335	0.9076	0.8766	0.9185
78.0	1.430	1.001	0.9310	0.9905	1.473	1.076	0.9117	0.8703	0.8615	0.9008
81.0	1.363	0.9959	0.9271	0.9992	1.388	1.058	0.9051	0.8484	0.8593	0.8943
84.0	1.269	0.9860	0.9248	0.9971	1.287	1.026	0.9030	0.8396	0.8549	0.8877
87.0	1.161	0.9576	0.9161	0.9839	1.189	0.9928	0.9096	0.8330	0.8592	0.8833
90.0	1.074	0.9336	0.8986	0.9642	1.106	0.9620	0.9139	0.8287	0.8549	0.8877
G/C	300.0	315.0	330.0	345.0						
0.0	4726	4726	4725	4724						
3.0	4487	4479	4498	4488						
6.0	3969	3957	3994	3992						
9.0	3371	3358	3419	3414						
12.0	2755	2761	2819	2841						
15.0	2107	2119	2204	2236						
18.0	1464	1469	1567	1605						
21.0	897.1	917.1	988.1	1024						

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	529.2	547.8	581.6	603.5
27.0	315.8	318.6	339.7	353.8
30.0	201.2	202.0	210.7	217.6
33.0	136.2	134.4	140.5	142.6
36.0	94.81	94.99	97.56	100.4
39.0	72.84	73.86	76.12	78.69
42.0	60.39	61.27	63.83	66.62
45.0	51.75	52.31	54.60	56.63
48.0	41.92	41.80	43.66	44.65
51.0	30.27	29.78	31.05	31.36
54.0	19.26	18.69	19.46	19.41
57.0	12.55	12.23	12.42	12.32
60.0	9.344	9.177	9.218	8.993
63.0	7.080	6.986	6.999	6.822
66.0	5.028	4.864	4.877	4.663
69.0	2.897	2.699	2.672	2.537
72.0	1.531	1.300	1.231	1.182
75.0	1.375	1.137	1.025	1.002
78.0	1.322	1.122	1.008	0.9774
81.0	1.226	1.098	1.021	0.9643
84.0	1.139	1.071	1.030	0.9555
87.0	1.093	1.050	1.034	0.9424
90.0	1.045	1.036	1.030	0.9227

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: