

LED Downlight Kenzo Series K1X70-13W-830-30D

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Light Output Ratio:	100.0%	
Luminaire Power:	14.55 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

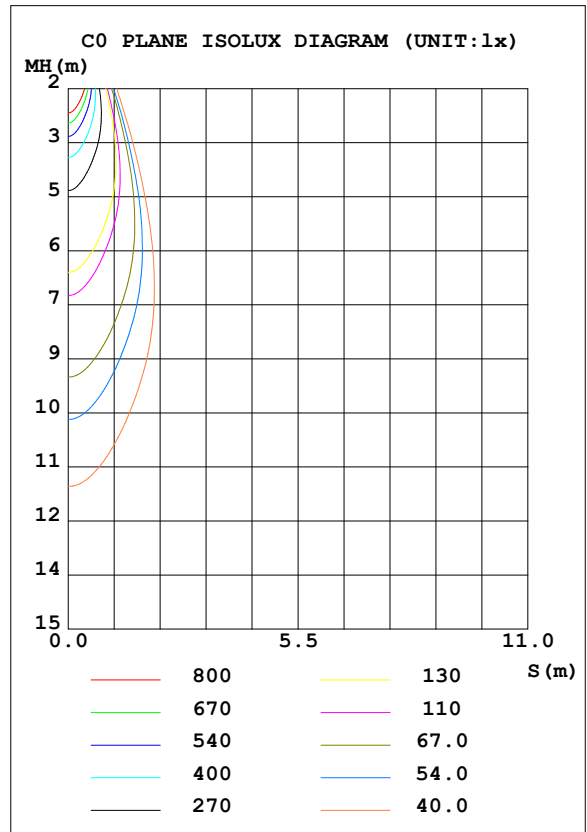
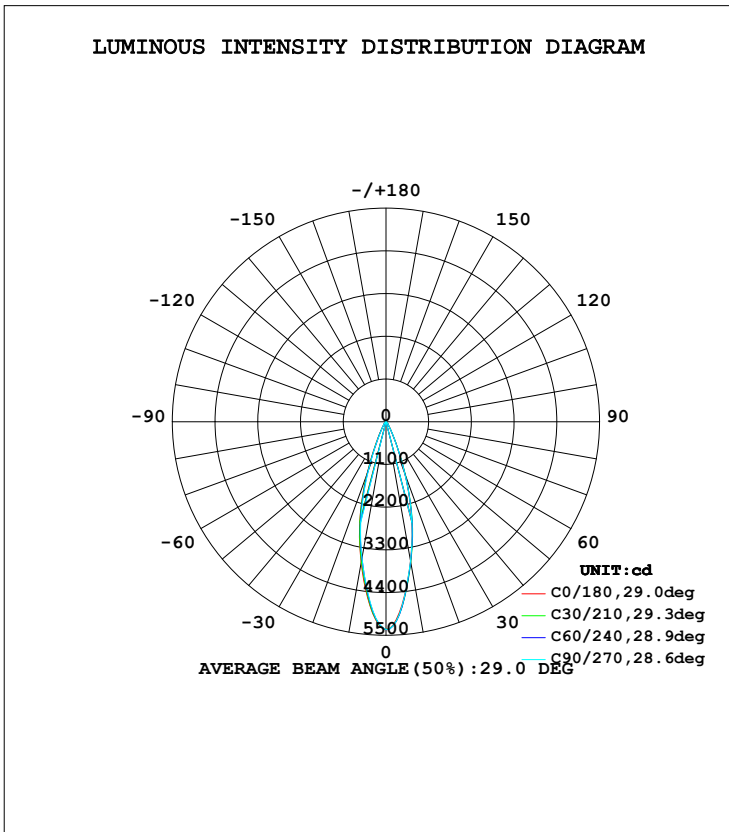
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.0690A P:14.55W PF:0.9556 Lamp Flux:1550.16x1 lm		
NAME: K1X70-13W-830-30D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ110mm*H138mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 106.54 lm/W			
MODEL	CITIZEN-3000K	I <sub>max</sub> (cd)	5352	S/MH (C0/180)	0.49
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.47
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1550.2	η UP, DN (C0-180)	0.0, 50.8
NOMINAL FLUX (lm)	1550.16	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.2
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



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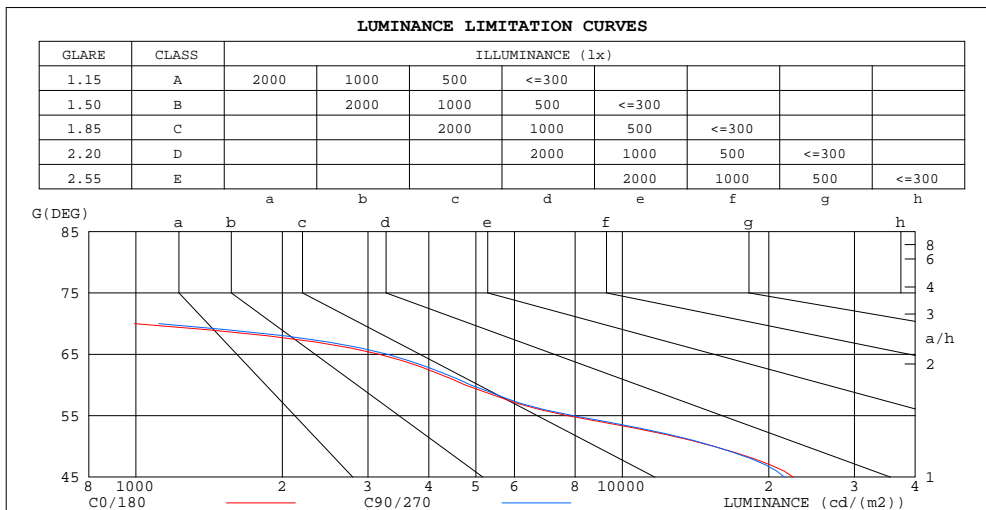
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**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**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	3641	3695	3642	3673	3689	3581	3566	3572	0- 10	415.2	415.2	26.8,26.8
20	1415	1482	1416	1429	1440	1353	1324	1335	10- 20	683.5	1099	70.9,70.9
30	251.9	257.0	249.1	263.5	262.5	240.5	233.0	244.8	20- 30	292.0	1391	89.7,89.7
40	84.84	84.54	82.21	83.74	84.72	83.52	81.92	81.87	30- 40	86.98	1478	95.3,95.3
50	40.35	40.99	40.42	40.67	40.81	39.60	40.34	39.13	40- 50	47.92	1526	98.4,98.4
60	9.660	9.816	9.921	9.835	9.960	9.688	9.957	9.928	50- 60	18.59	1544	99.6,99.6
70	1.382	1.506	1.551	1.550	1.603	1.472	1.531	1.450	60- 70	5.485	1550	100,100
80	0.1247	0.1048	0.1225	0.1005	0.0961	0.1181	0.0961	0.1203	70- 80	0.3571	1550	100,100
90	0.0634	0.0590	0.0612	0.0612	0.0525	0.0503	0.0503	0.0503	80- 90	0.0801	1550	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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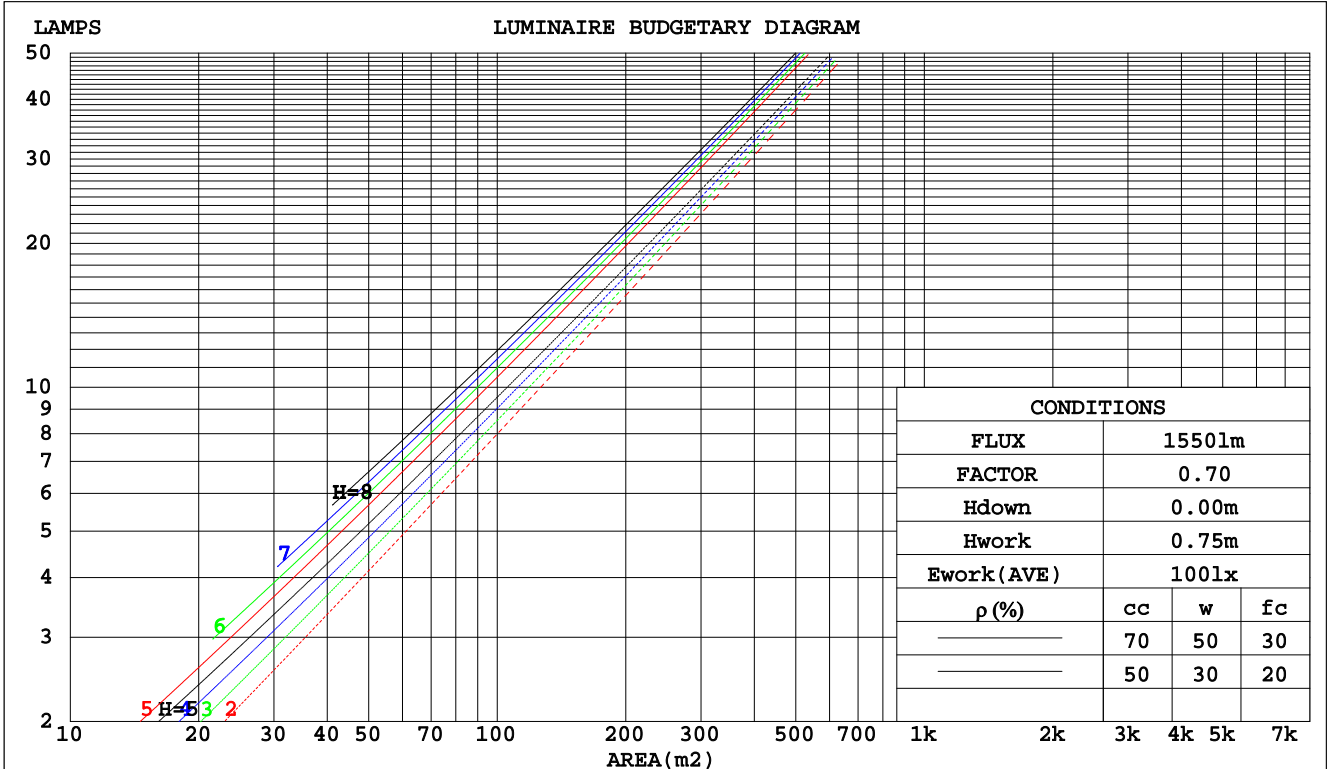
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GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0690A P:14.55W PF:0.9556 Lamp Flux:1550.16x1 lm		
NAME: K1X70-13W-830-30D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ110mm*H138mm	
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																0
pfc																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	1.12	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	.88
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	.78	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.69
10.0	.76	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.74	.71	.68	.67



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 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
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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	.149	.085	.027	.142	.081	.026	.130	.074	.024	.118	.068	.022	.108	.062	.020	
2.0	.140	.077	.023	.134	.074	.023	.124	.069	.021	.114	.064	.020	.105	.060	.019	
3.0	.131	.070	.021	.127	.068	.020	.118	.064	.019	.110	.060	.018	.102	.057	.018	
4.0	.124	.064	.019	.120	.063	.019	.112	.060	.018	.106	.057	.017	.099	.054	.016	
5.0	.117	.060	.017	.114	.058	.017	.107	.056	.016	.101	.053	.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	.090	.047	.014	
8.0	.101	.049	.014	.099	.049	.014	.094	.047	.013	.090	.046	.013	.087	.044	.013	
9.0	.096	.047	.013	.094	.046	.013	.091	.045	.013	.087	.044	.012	.084	.043	.012	
10.0	.092	.044	.012	.091	.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	.016	.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	.054	.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	.052	.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]  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0690A P:14.55W PF:0.9556 Lamp Flux:1550.16x1 lm		
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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	14.6	15.3	14.8	15.5	15.6	14.5	15.2	14.7	15.4	15.5
3H	14.5	15.2	14.7	15.4	15.5	14.4	15.1	14.7	15.3	15.5
4H	14.4	15.1	14.7	15.3	15.5	14.3	15.0	14.6	15.2	15.4
6H	14.3	14.9	14.6	15.2	15.4	14.2	14.9	14.5	15.1	15.3
8H	14.3	14.9	14.6	15.1	15.4	14.2	14.8	14.5	15.0	15.3
12H	14.2	14.8	14.5	15.1	15.3	14.2	14.7	14.5	15.0	15.2
4H 2H	14.5	15.1	14.7	15.3	15.5	14.4	15.0	14.6	15.2	15.4
3H	14.3	14.9	14.7	15.2	15.4	14.3	14.8	14.6	15.1	15.4
4H	14.3	14.8	14.6	15.1	15.4	14.2	14.7	14.5	15.0	15.3
6H	14.2	14.6	14.5	14.9	15.3	14.1	14.5	14.4	14.9	15.2
8H	14.1	14.5	14.5	14.9	15.2	14.0	14.5	14.4	14.8	15.2
12H	14.0	14.4	14.4	14.8	15.2	14.0	14.4	14.4	14.7	15.1
8H 4H	14.1	14.5	14.5	14.9	15.2	14.0	14.5	14.4	14.8	15.2
6H	14.0	14.3	14.4	14.7	15.1	13.9	14.3	14.3	14.7	15.1
8H	13.9	14.2	14.4	14.7	15.1	13.9	14.2	14.3	14.6	15.0
12H	13.9	14.1	14.3	14.6	15.0	13.8	14.1	14.3	14.5	15.0
12H 4H	14.0	14.4	14.5	14.8	15.2	14.0	14.4	14.4	14.7	15.1
6H	13.9	14.2	14.4	14.7	15.1	13.9	14.2	14.3	14.6	15.0
8H	13.9	14.1	14.3	14.6	15.0	13.8	14.1	14.3	14.5	15.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 5.2					+ 2.0 / - 5.0				
1.5H	+ 1.8 / - 4.4					+ 1.9 / - 4.3				
2.0H	+ 4.7 / - 5.8					+ 4.4 / - 5.4				

CIE Pub.117 Corrected 1550 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.5)

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γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
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 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0690A P:14.55W PF:0.9556 Lamp Flux:1550.16x1 lm		
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SPEC.:3000K	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	89	82	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	98	94	91	87
1.25	104	99	96	103	98	95	101	97	95	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

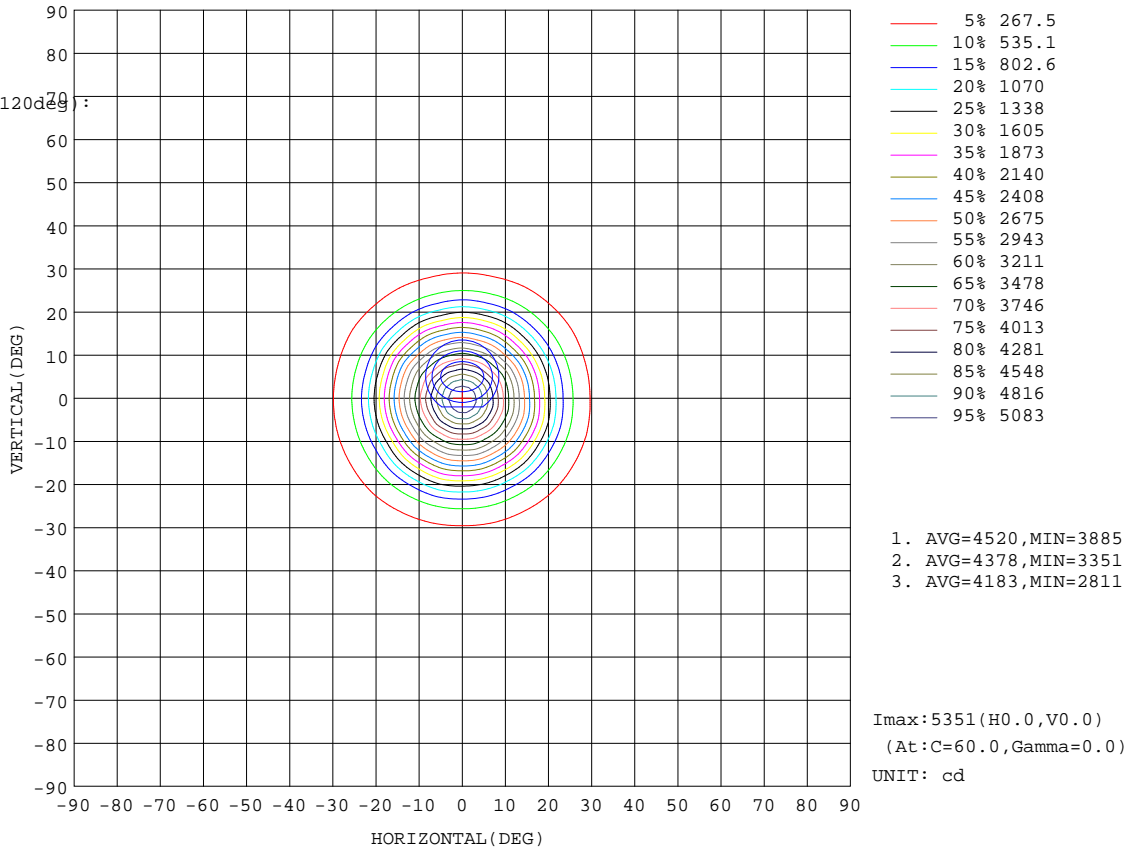
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Conical surface Flux(90deg):

1504.6 lm  
%lum = 97.1%  
%lamp = 97.1%

Conical surface Flux(120deg):

1544.2 lm  
%lum = 99.6%  
%lamp = 99.6%



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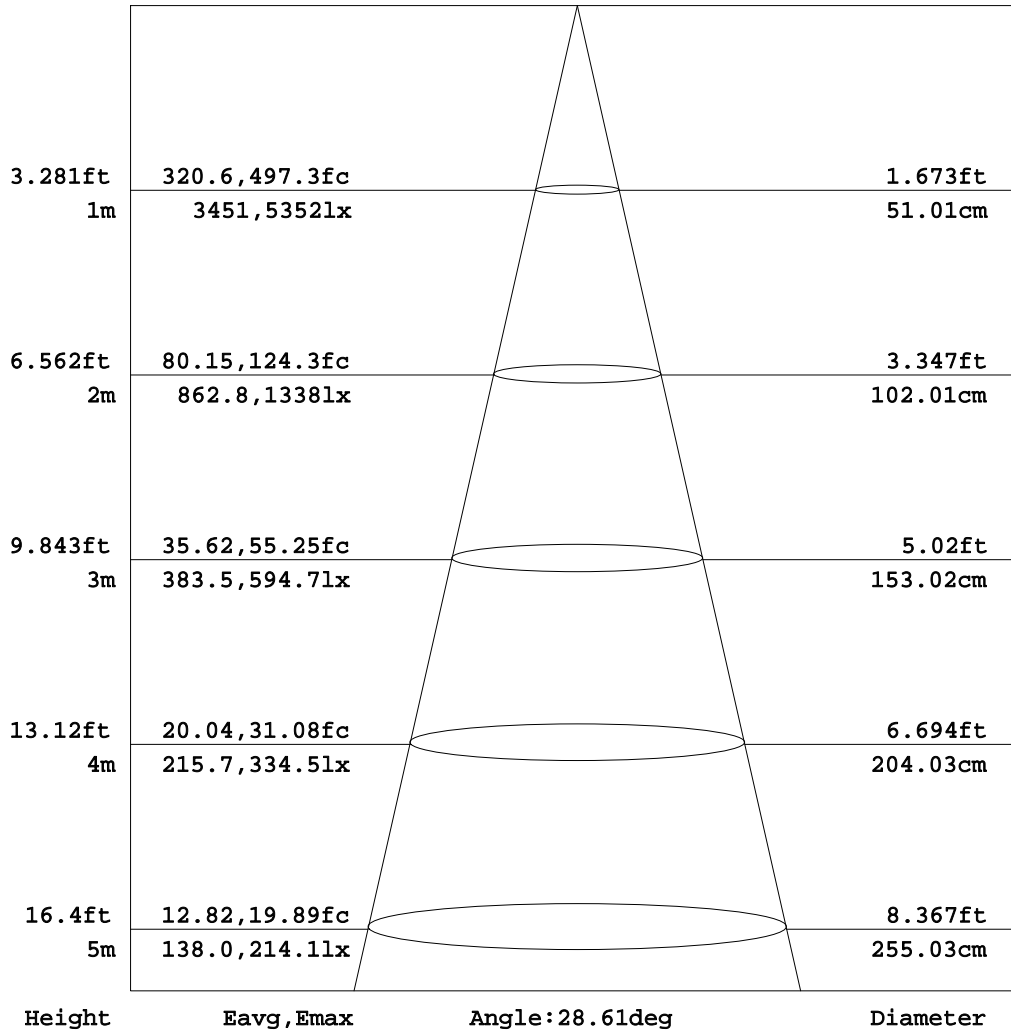


GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

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Flux out:778.4 lm



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

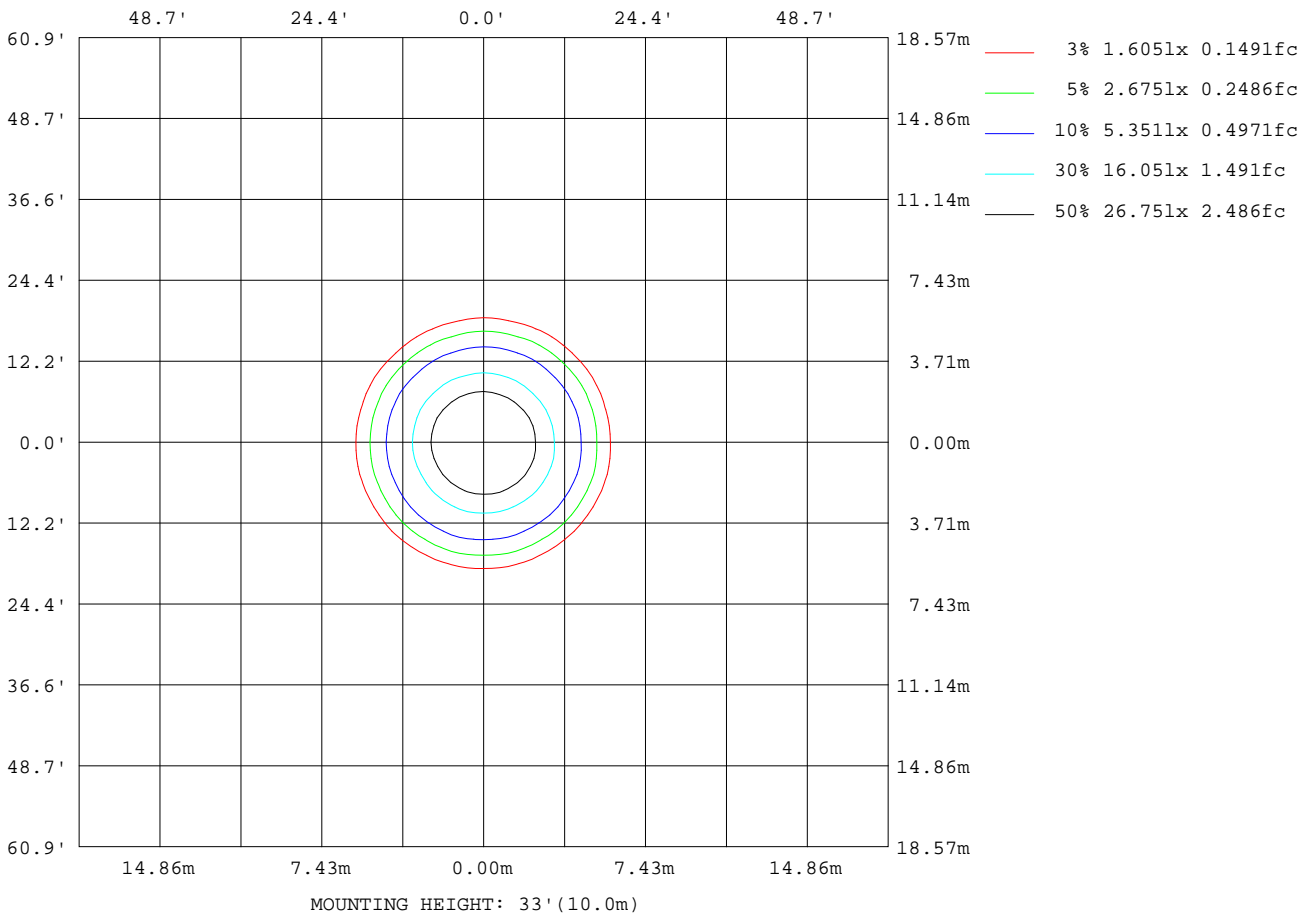
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ISOLUX DIAGRAM

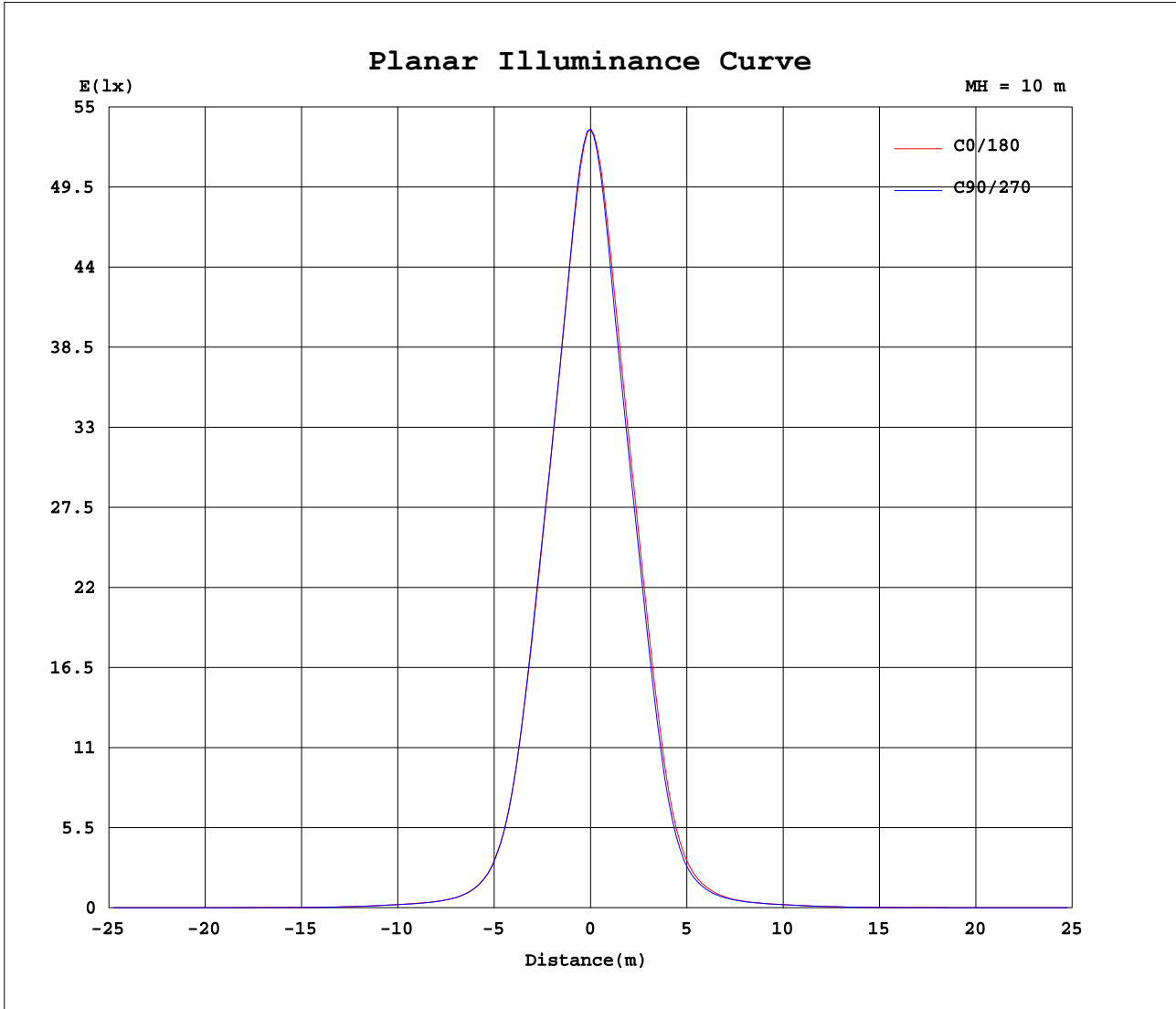
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Planar Illuminance Curve



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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	5351	5349	5351	5348	5352	5348	5349	5346	5347	5344
3.0	5100	5136	5129	5154	5143	5161	5134	5145	5119	5126
6.0	4523	4579	4567	4591	4558	4573	4535	4556	4536	4562
9.0	3860	3912	3892	3919	3875	3889	3857	3882	3854	3896
12.0	3209	3266	3255	3272	3239	3260	3210	3239	3204	3233
15.0	2541	2619	2608	2627	2584	2602	2568	2588	2550	2569
18.0	1854	1931	1919	1931	1887	1893	1869	1899	1866	1872
21.0	1207	1271	1257	1263	1224	1220	1208	1244	1212	1216
24.0	716.5	752.6	739.1	746.4	720.8	727.0	715.9	733.3	716.3	724.1
27.0	414.0	431.9	424.9	428.6	413.6	418.4	408.7	419.6	417.2	425.0
30.0	251.9	262.6	257.4	257.0	250.6	252.8	249.1	253.7	255.5	263.5
33.0	162.6	168.5	165.6	165.4	163.6	165.8	161.9	164.5	166.5	171.0
36.0	114.7	118.3	117.0	116.5	116.3	116.9	115.2	116.5	117.1	118.5
39.0	90.31	92.40	91.02	90.25	89.55	89.29	88.27	89.97	90.17	90.31
42.0	76.30	78.09	76.78	75.73	74.92	74.10	73.04	74.21	74.38	73.77
45.0	64.63	66.35	65.04	64.44	63.76	63.11	62.00	63.04	62.86	62.42
48.0	50.68	52.29	51.13	51.29	50.87	50.96	50.00	51.11	50.50	50.31
51.0	35.32	36.60	35.68	35.99	35.86	36.33	35.68	36.67	36.08	35.91
54.0	21.57	22.55	21.82	22.20	21.98	22.62	22.20	23.10	22.58	22.58
57.0	13.46	13.77	13.40	13.53	13.53	13.79	13.68	14.02	13.84	13.77
60.0	9.660	9.671	9.581	9.816	9.857	10.03	9.921	9.960	9.758	9.835
63.0	7.092	7.111	7.028	7.229	7.271	7.411	7.291	7.332	7.151	7.236
66.0	4.586	4.611	4.529	4.755	4.791	4.948	4.813	4.873	4.684	4.790
69.0	2.048	2.120	2.063	2.198	2.195	2.322	2.241	2.314	2.184	2.244
72.0	0.4099	0.4767	0.4489	0.4897	0.4560	0.5201	0.4979	0.5463	0.4975	0.5352
75.0	0.1927	0.1704	0.1906	0.1725	0.1862	0.1682	0.1840	0.1682	0.1818	0.1638
78.0	0.1445	0.1267	0.1466	0.1289	0.1422	0.1224	0.1401	0.1202	0.1400	0.1201
81.0	0.1138	0.0917	0.1138	0.0918	0.1116	0.0939	0.1116	0.0918	0.1116	0.0896
84.0	0.0832	0.0656	0.0876	0.0656	0.0897	0.0656	0.0854	0.0678	0.0875	0.0699
87.0	0.0700	0.0634	0.0700	0.0590	0.0700	0.0590	0.0700	0.0612	0.0700	0.0590
90.0	0.0634	0.0634	0.0612	0.0590	0.0590	0.0590	0.0612	0.0612	0.0612	0.0612
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5342	5345	5351	5349	5351	5348	5352	5348	5349	5346
3.0	5094	5096	5108	5085	5088	5058	5067	5041	5060	5043
6.0	4524	4537	4556	4517	4522	4466	4466	4424	4453	4423
9.0	3857	3885	3903	3864	3864	3790	3789	3742	3778	3755
12.0	3215	3236	3256	3232	3242	3174	3165	3130	3133	3095
15.0	2537	2578	2595	2579	2593	2521	2521	2463	2474	2433
18.0	1829	1870	1893	1870	1893	1820	1820	1743	1771	1753
21.0	1172	1199	1216	1190	1203	1138	1138	1083	1110	1102
24.0	700.2	706.4	714.1	691.3	694.1	652.2	648.0	624.7	641.8	632.8
27.0	415.1	415.5	417.9	404.7	402.8	380.3	373.6	361.1	368.4	368.1
30.0	258.9	263.6	262.5	256.6	255.7	240.5	236.9	228.7	233.0	230.3
33.0	170.1	174.2	172.9	169.8	169.6	160.8	159.5	155.4	155.4	152.4
36.0	118.0	120.2	119.3	118.0	119.0	115.9	115.7	113.5	112.7	110.4
39.0	89.75	90.97	91.08	90.06	90.76	89.53	89.38	88.44	87.64	86.17
42.0	73.76	74.67	74.97	74.44	74.78	74.22	74.08	73.86	73.14	71.86
45.0	62.05	63.06	63.36	62.79	62.91	62.45	62.63	62.52	62.19	60.65
48.0	49.51	50.15	50.64	49.83	49.94	49.51	50.19	50.01	49.90	48.29
51.0	35.03	35.47	35.97	35.14	35.26	34.76	35.57	35.38	35.55	34.07
54.0	21.71	22.09	22.64	21.84	21.97	21.45	22.08	21.84	22.16	21.08
57.0	13.40	13.52	13.77	13.45	13.49	13.34	13.67	13.73	13.92	13.52
60.0	9.696	9.770	9.960	9.747	9.768	9.688	9.840	9.807	9.957	9.854
63.0	7.125	7.218	7.332	7.166	7.220	7.144	7.317	7.269	7.349	7.236
66.0	4.675	4.757	4.850	4.671	4.753	4.684	4.880	4.798	4.864	4.708
69.0	2.149	2.220	2.331	2.197	2.246	2.136	2.233	2.151	2.216	2.134
72.0	0.4429	0.4723	0.5605	0.5072	0.5325	0.4833	0.5173	0.4614	0.4934	0.4567
75.0	0.1796	0.1616	0.1616	0.1795	0.1637	0.1861	0.1724	0.1949	0.1746	0.1883
78.0	0.1379	0.1180	0.1157	0.1334	0.1136	0.1400	0.1180	0.1379	0.1180	0.1400
81.0	0.1072	0.0896	0.0851	0.1028	0.0830	0.1072	0.0852	0.1051	0.0874	0.1094
84.0	0.0854	0.0656	0.0655	0.0766	0.0654	0.0788	0.0611	0.0766	0.0612	0.0810
87.0	0.0700	0.0634	0.0503	0.0634	0.0481	0.0613	0.0481	0.0656	0.0503	0.0678
90.0	0.0634	0.0634	0.0525	0.0525	0.0481	0.0503	0.0481	0.0503	0.0503	0.0525
G/C	300.0	315.0	330.0	345.0						
0.0	5347	5344	5342	5345						
3.0	5068	5062	5095	5101						
6.0	4455	4467	4521	4524						
9.0	3793	3797	3855	3858						
12.0	3132	3124	3206	3213						
15.0	2462	2458	2520	2541						
18.0	1781	1770	1821	1842						
21.0	1141	1139	1166	1195						

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	666.2	668.9	699.3	710.5
27.0	389.0	391.8	413.6	410.2
30.0	241.8	244.8	252.9	250.3
33.0	158.0	159.5	165.0	162.1
36.0	112.1	112.1	114.0	113.8
39.0	86.78	87.36	88.17	88.74
42.0	72.30	73.15	73.67	74.48
45.0	61.25	61.85	62.74	63.32
48.0	48.66	48.91	49.90	50.03
51.0	34.39	34.34	35.16	34.97
54.0	21.42	21.28	21.77	21.49
57.0	13.67	13.62	13.67	13.46
60.0	9.990	9.928	9.988	9.806
63.0	7.336	7.265	7.360	7.245
66.0	4.814	4.754	4.877	4.765
69.0	2.218	2.136	2.235	2.162
72.0	0.4826	0.4331	0.4695	0.4373
75.0	0.1660	0.1817	0.1681	0.1861
78.0	0.1201	0.1379	0.1202	0.1400
81.0	0.0917	0.1094	0.0895	0.1094
84.0	0.0634	0.0831	0.0633	0.0810
87.0	0.0481	0.0634	0.0503	0.0634
90.0	0.0481	0.0503	0.0503	0.0503

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: