

LED Downlight Kenzo Series K1X55-9W-830-18D



Light Output Ratio:	100.0%	
Luminaire Power:	10.61 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

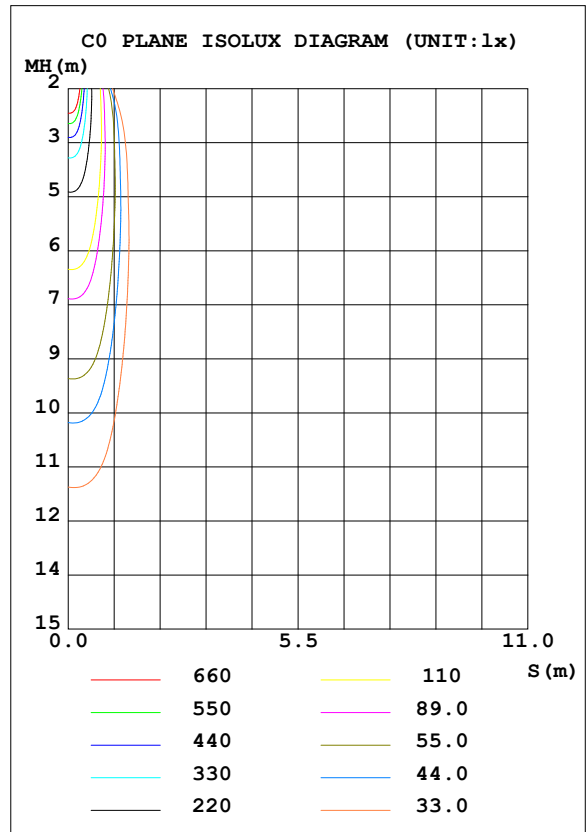
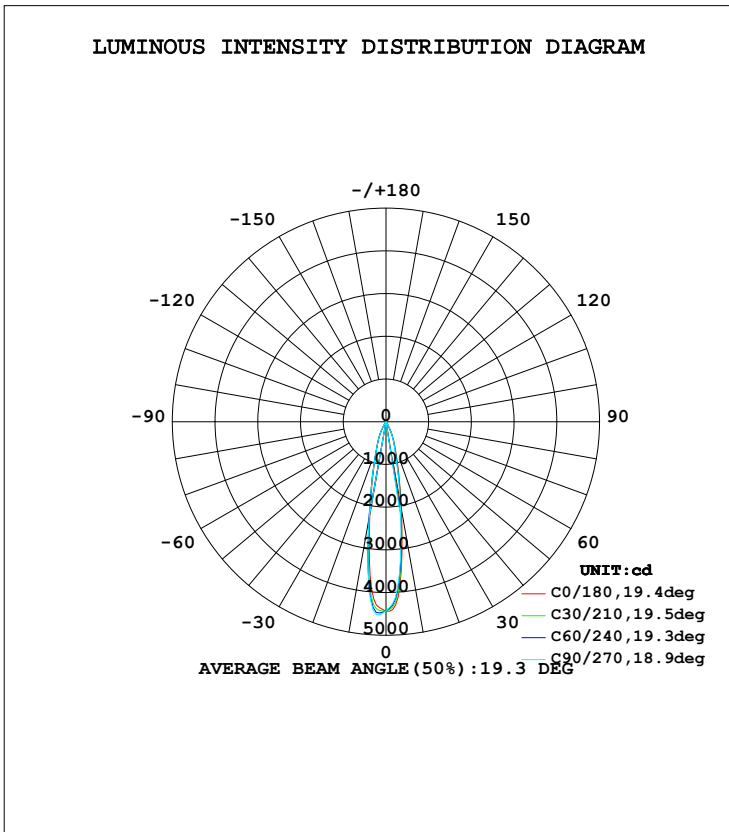
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.0533A P:10.61W PF:0.9006 Lamp Flux:820.496x1 lm		
NAME: K1X55-9W-830-18D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.36 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	4543	S/MH (C0/180)	0.34
NOMINAL POWER (W)	11.0	LOR (%)	100.0	S/MH (C90/270)	0.35
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	820.50	η UP, DN (C0-180)	0.0, 47.6
NOMINAL FLUX (lm)	820.496	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.4
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



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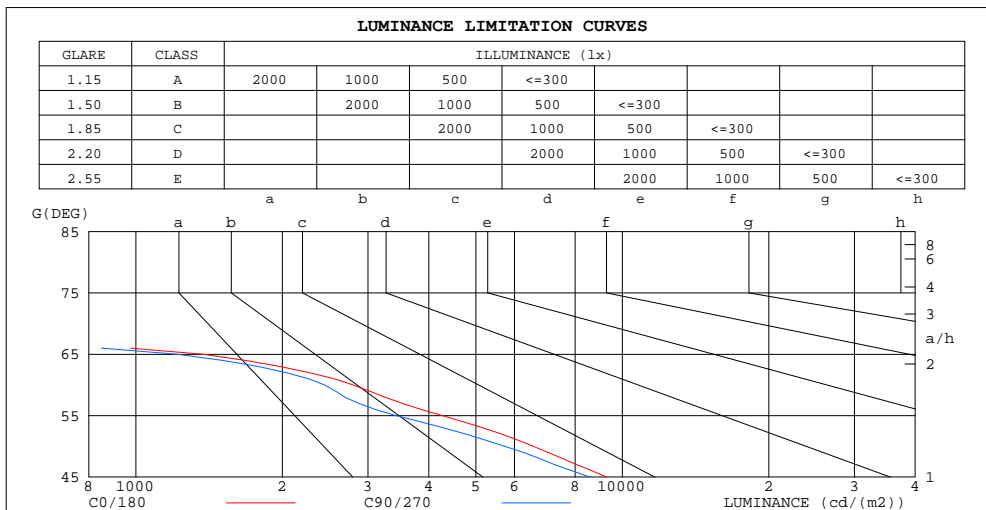
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	2081	2047	1930	2003	2183	2243	2284	2181	0- 10	307.5	307.5	37.5,37.5
20	597.5	572.9	549.8	559.6	612.2	624.7	621.9	601.5	10- 20	308.6	616.1	75.1,75.1
30	108.7	100.3	115.5	130.7	136.6	132.4	155.7	137.5	20- 30	154.3	770.4	93.9,93.9
40	22.74	22.54	23.25	23.13	22.50	24.01	26.23	25.32	30- 40	30.63	801.0	97.6,97.6
50	10.03	9.408	8.763	9.183	9.943	10.61	11.21	10.03	40- 50	12.35	813.4	99.1,99.1
60	3.319	3.121	2.902	2.899	3.223	3.615	3.625	3.258	50- 60	5.278	818.6	99.8,99.8
70	0.3239	0.3277	0.3304	0.3234	0.3975	0.3938	0.3320	0.3042	60- 70	1.552	820.2	100,100
80	0.1226	0.1049	0.1270	0.1114	0.1288	0.1466	0.1070	0.1116	70- 80	0.2291	820.4	100,100
90	0.0306	0.0328	0.0328	0.0306	0.0219	0.0262	0.0241	0.0241	80- 90	0.0699	820.5	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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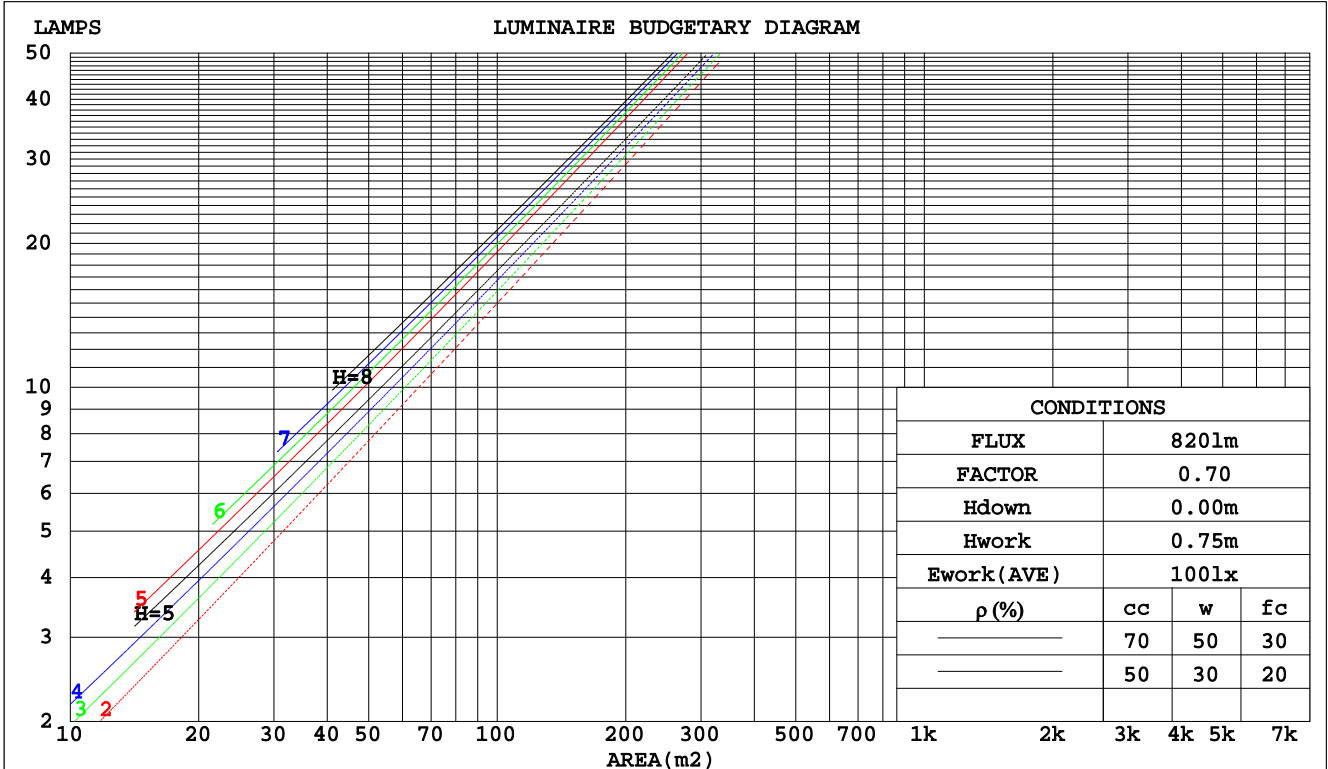
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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																
pfc																
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	.95	.93
3.0	1.03	.99	.96	1.01	.98	.95	.99	.96	.94	.97	.94	.93	.95	.93	.91	.90
4.0	.99	.95	.92	.98	.94	.91	.96	.92	.90	.94	.91	.89	.92	.90	.88	.87
5.0	.95	.91	.88	.94	.90	.87	.92	.89	.87	.91	.88	.86	.90	.87	.85	.84
6.0	.92	.87	.84	.91	.87	.84	.90	.86	.84	.88	.85	.83	.87	.85	.82	.81
7.0	.89	.84	.81	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.79
8.0	.86	.82	.79	.85	.81	.79	.84	.81	.78	.84	.80	.78	.83	.80	.78	.77
9.0	.83	.79	.76	.83	.79	.76	.82	.79	.76	.81	.78	.76	.81	.78	.76	.75
10.0	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.79	.76	.74	.73



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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	.138	.079	.025	.132	.075	.024	.119	.069	.022	.108	.062	.020	.098	.057	.018	
2.0	.129	.071	.022	.123	.068	.021	.113	.063	.020	.104	.058	.018	.095	.054	.017	
3.0	.120	.064	.019	.116	.062	.019	.107	.058	.018	.099	.054	.017	.092	.051	.016	
4.0	.113	.059	.017	.109	.057	.017	.102	.054	.016	.095	.051	.015	.089	.048	.015	
5.0	.106	.054	.016	.103	.053	.015	.097	.050	.015	.091	.048	.014	.086	.046	.014	
6.0	.101	.050	.014	.098	.049	.014	.092	.047	.014	.087	.045	.013	.083	.044	.013	
7.0	.095	.047	.013	.093	.046	.013	.088	.045	.013	.084	.043	.013	.080	.042	.012	
8.0	.091	.044	.012	.089	.044	.012	.085	.042	.012	.081	.041	.012	.077	.040	.012	
9.0	.087	.042	.012	.085	.041	.012	.081	.040	.011	.078	.039	.011	.075	.038	.011	
10.0	.083	.040	.011	.081	.039	.011	.078	.038	.011	.075	.037	.011	.072	.036	.010	

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	.150	.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	.096	.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	.009	.007	.004	
10.0	.079	.050	.031	.068	.044	.027	.047	.031	.019	.028	.018	.012	.009	.006	.004	

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 Humidity:52%
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UGR(Unified Glare Rating) Table

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SPEC.:3000K	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	9.8	10.4	10.0	10.6	10.7	9.4	10.0	9.6	10.2	10.3
3H	9.6	10.3	9.9	10.4	10.6	9.2	9.9	9.5	10.0	10.2
4H	9.6	10.2	9.8	10.4	10.6	9.2	9.8	9.4	10.0	10.2
6H	9.5	10.0	9.8	10.3	10.5	9.1	9.6	9.4	9.9	10.1
8H	9.4	10.0	9.7	10.2	10.5	9.0	9.6	9.3	9.8	10.1
12H	9.4	9.9	9.7	10.2	10.4	9.0	9.5	9.3	9.8	10.0
4H 2H	9.6	10.2	9.9	10.4	10.6	9.3	9.8	9.5	10.1	10.3
3H	9.5	10.0	9.8	10.3	10.5	9.1	9.6	9.4	9.9	10.2
4H	9.4	9.9	9.7	10.2	10.5	9.0	9.5	9.4	9.8	10.1
6H	9.3	9.7	9.7	10.1	10.4	8.9	9.4	9.3	9.7	10.0
8H	9.3	9.7	9.6	10.0	10.4	8.9	9.3	9.3	9.6	10.0
12H	9.2	9.6	9.6	9.9	10.3	8.8	9.2	9.2	9.6	9.9
8H 4H	9.3	9.7	9.6	10.0	10.4	8.9	9.3	9.3	9.6	10.0
6H	9.2	9.5	9.6	9.9	10.3	8.8	9.1	9.2	9.5	9.9
8H	9.1	9.4	9.5	9.8	10.2	8.7	9.0	9.2	9.4	9.9
12H	9.0	9.3	9.5	9.7	10.2	8.7	8.9	9.1	9.4	9.8
12H 4H	9.2	9.6	9.6	9.9	10.3	8.8	9.2	9.2	9.6	9.9
6H	9.1	9.4	9.5	9.8	10.2	8.7	9.0	9.2	9.4	9.9
8H	9.0	9.3	9.5	9.7	10.2	8.7	8.9	9.1	9.4	9.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 4.0					+ 2.2 / - 4.8				
1.5H	+ 2.3 / - 3.1					+ 3.0 / - 3.2				
2.0H	+ 3.8 / - 5.1					+ 4.0 / - 4.6				

CIE Pub.117 Corrected 820.5 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.7)

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γ Range: 0 - 90DEG
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GONIOPHOTOMETERS SYSTEM TEST REPORT

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	90	84	81	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	96	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	110	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

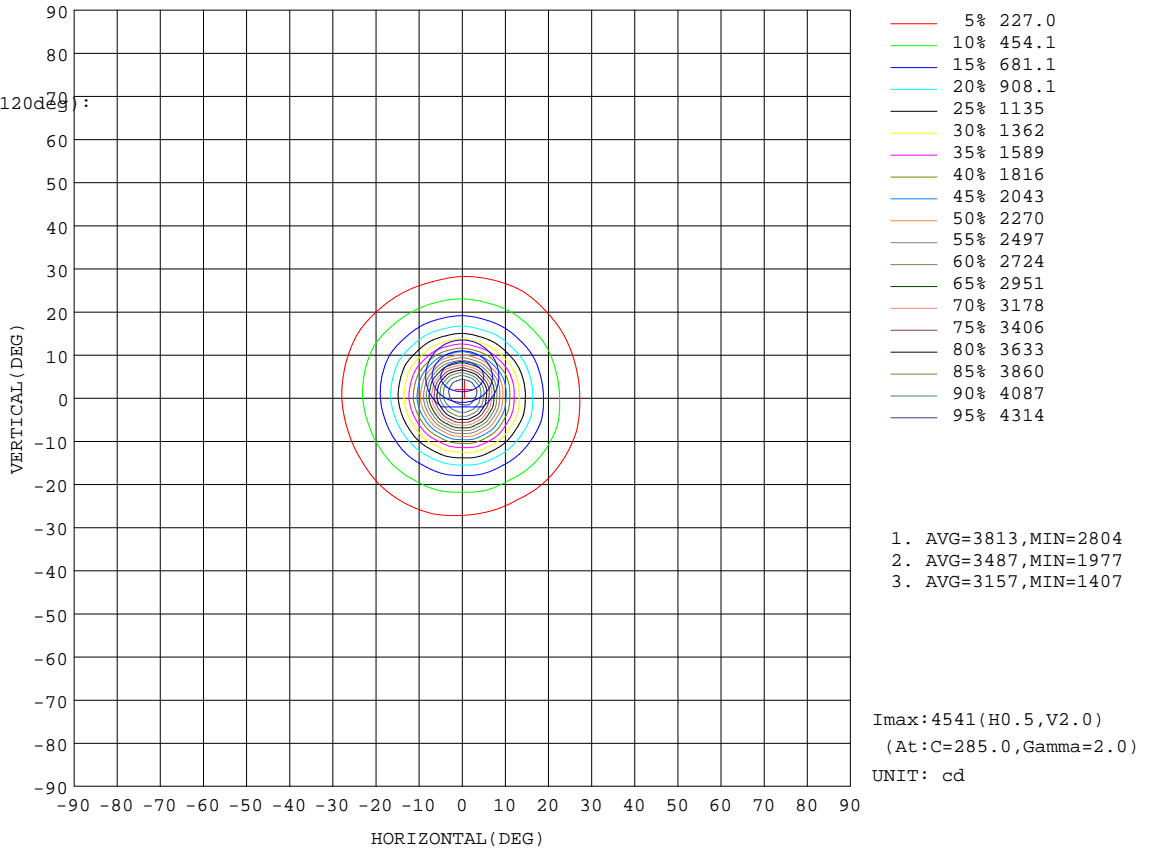
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Conical surface Flux(90deg):

808.28 lm
%lum = 98.5%
%lamp = 98.5%

Conical surface Flux(120deg):

818.65 lm
%lum = 99.8%
%lamp = 99.8%



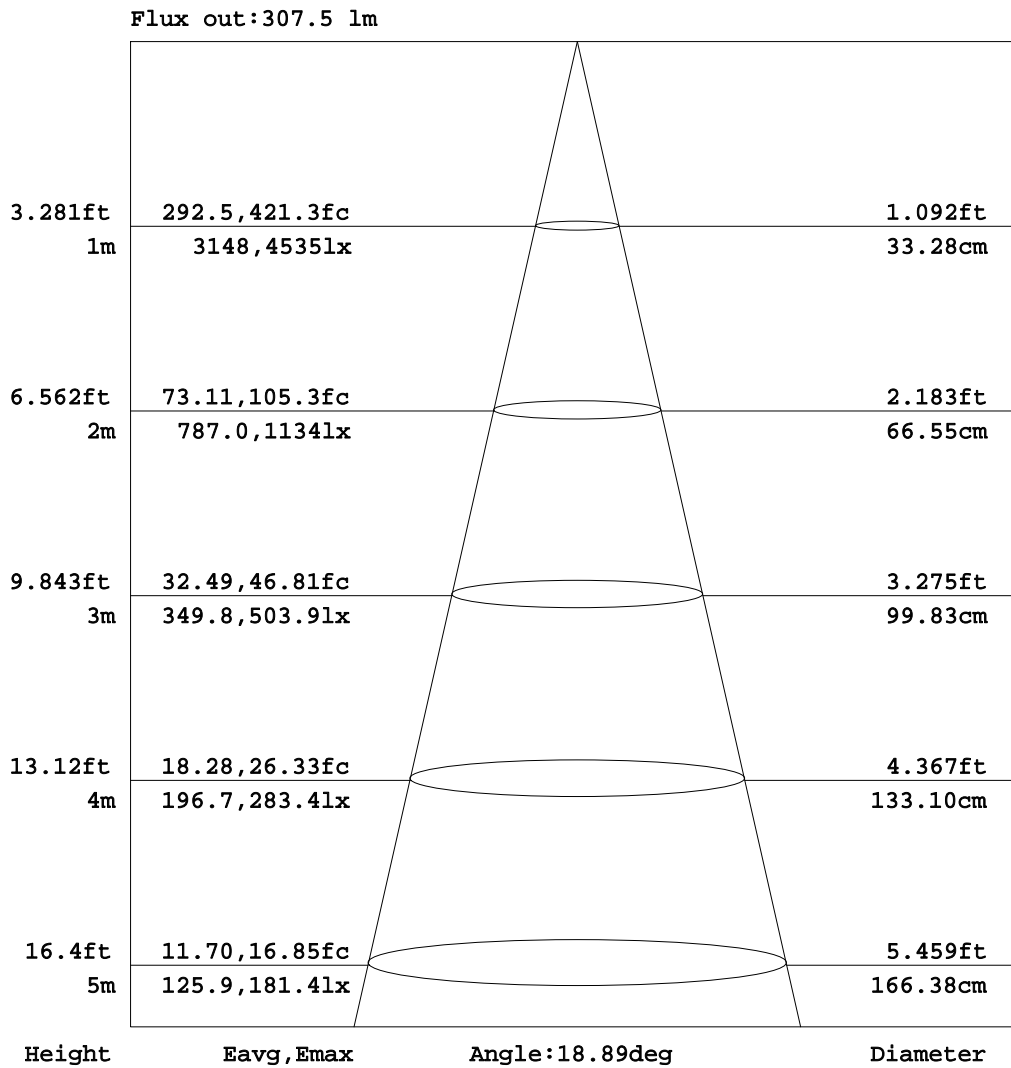
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AAI Figure

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

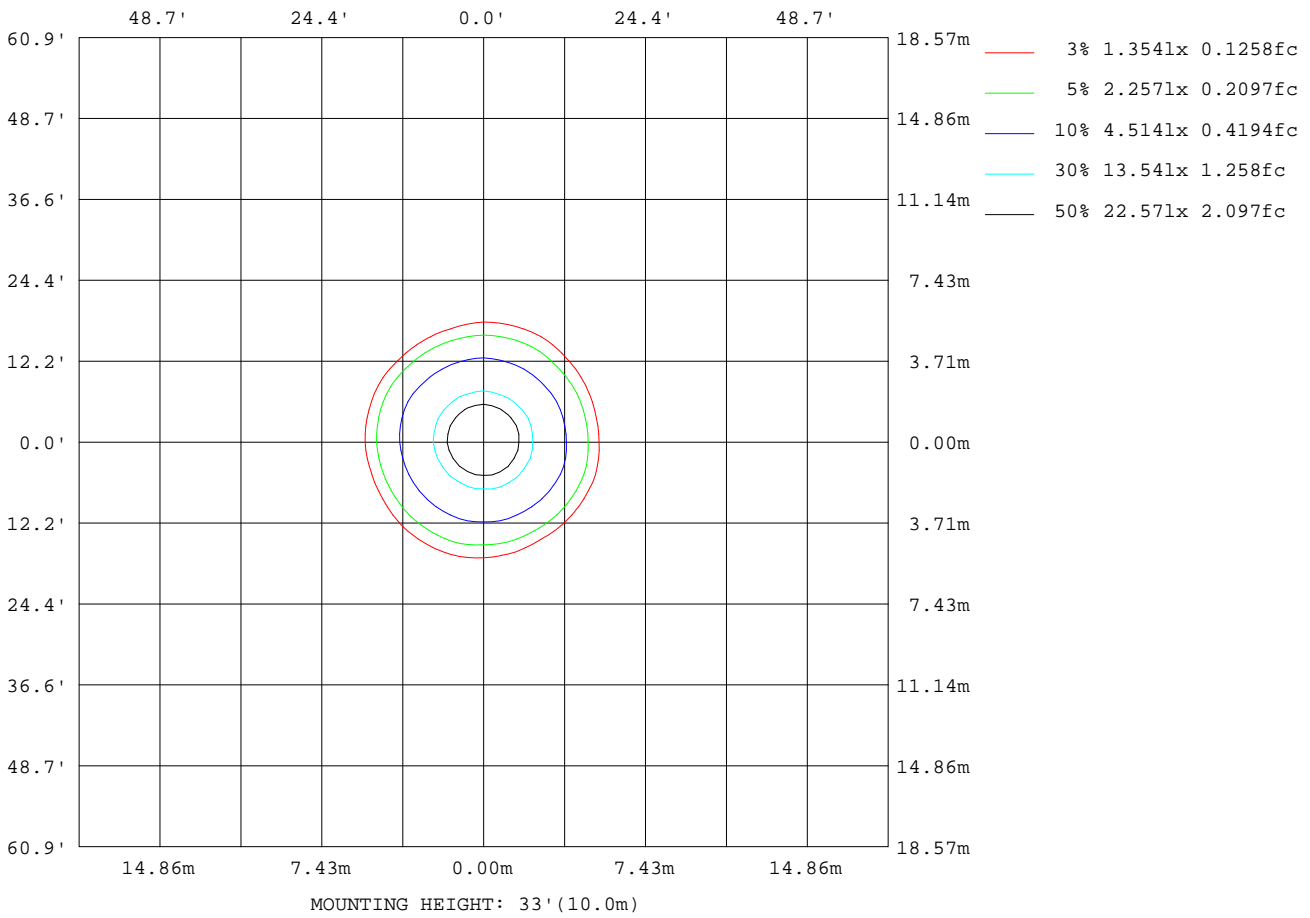
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ISOLUX DIAGRAM

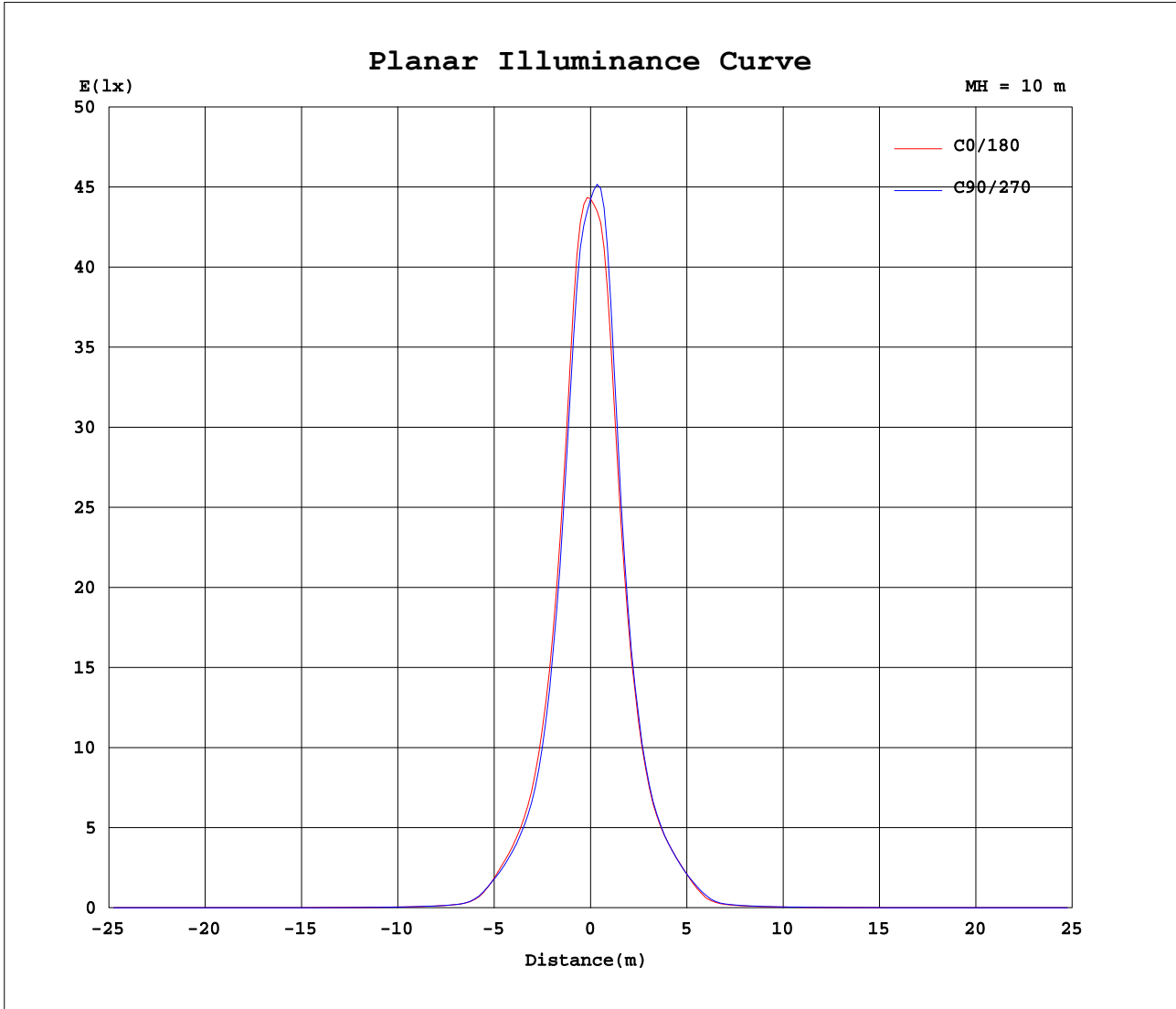
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Planar Illuminance Curve



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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	4427	4423	4424	4426	4421	4431	4424	4437	4432	4443
3.0	4297	4290	4233	4212	4163	4163	4140	4156	4150	4189
6.0	3461	3456	3371	3373	3303	3318	3260	3310	3282	3366
9.0	2381	2381	2311	2338	2271	2293	2211	2255	2225	2304
12.0	1591	1604	1553	1558	1520	1518	1460	1477	1461	1510
15.0	1078	1087	1041	1029	988.3	993.6	964.7	976.3	970.3	1009
18.0	744.7	758.8	728.6	712.5	687.9	693.0	675.4	685.4	675.2	699.0
21.0	540.1	555.3	533.5	518.7	495.8	504.1	492.4	505.9	498.7	508.3
24.0	386.2	400.4	384.2	371.1	354.4	361.4	354.4	368.4	364.7	368.8
27.0	238.6	251.4	235.4	225.7	209.1	222.7	234.3	252.7	249.2	245.3
30.0	108.7	125.9	107.9	100.3	98.09	112.3	115.5	125.8	120.1	130.7
33.0	51.37	52.24	49.46	49.31	48.47	51.41	51.30	51.89	54.70	55.25
36.0	32.60	32.64	32.42	32.08	31.11	33.35	33.28	32.46	31.90	33.33
39.0	24.53	25.04	24.92	24.42	23.61	24.70	25.09	24.83	24.39	25.13
42.0	19.84	20.21	20.09	19.52	18.84	18.91	19.54	19.67	19.60	19.56
45.0	15.59	15.79	15.44	15.14	14.25	13.90	14.42	15.00	15.18	14.93
48.0	11.98	12.17	11.81	11.41	10.67	10.22	10.75	11.24	11.51	11.10
51.0	9.126	9.194	8.897	8.497	7.773	7.442	7.819	8.287	8.554	8.245
54.0	6.573	6.588	6.248	6.151	5.612	5.370	5.364	5.701	5.759	5.712
57.0	4.567	4.454	4.232	4.006	3.879	3.713	3.788	3.788	3.780	3.840
60.0	3.319	3.230	3.108	3.121	3.014	2.982	2.902	2.835	2.839	2.899
63.0	2.135	2.106	2.060	2.091	1.990	2.036	1.926	1.886	1.889	1.987
66.0	0.9429	0.9777	0.8775	0.8843	0.7726	0.9841	0.8201	0.8930	0.9463	1.028
69.0	0.3503	0.3539	0.3655	0.3583	0.3677	0.3561	0.3546	0.3387	0.3480	0.3561
72.0	0.2671	0.2621	0.2780	0.2687	0.2824	0.2665	0.2736	0.2534	0.2693	0.2687
75.0	0.2036	0.1901	0.2102	0.1945	0.2145	0.1966	0.2102	0.1879	0.2058	0.2010
78.0	0.1489	0.1333	0.1555	0.1354	0.1598	0.1398	0.1555	0.1333	0.1532	0.1420
81.0	0.1095	0.0917	0.1160	0.0939	0.1139	0.0939	0.1138	0.0939	0.1116	0.0983
84.0	0.0766	0.0611	0.0766	0.0611	0.0788	0.0611	0.0767	0.0589	0.0767	0.0633
87.0	0.0504	0.0328	0.0504	0.0328	0.0504	0.0328	0.0526	0.0328	0.0504	0.0328
90.0	0.0306	0.0328	0.0328	0.0328	0.0306	0.0328	0.0328	0.0328	0.0328	0.0306
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4440	4452	4423	4424	4423	4424	4421	4431	4424	4437
3.0	4201	4267	4297	4328	4379	4416	4465	4490	4510	4517
6.0	3374	3482	3588	3621	3742	3752	3836	3812	3846	3757
9.0	2324	2410	2490	2500	2590	2572	2648	2606	2637	2559
12.0	1533	1591	1657	1675	1727	1701	1733	1698	1717	1669
15.0	1018	1059	1111	1130	1169	1137	1152	1122	1139	1104
18.0	701.0	722.8	755.4	779.7	803.8	778.8	781.4	768.5	772.9	756.6
21.0	513.7	529.5	555.3	576.4	586.9	568.2	558.2	558.2	558.6	550.7
24.0	376.2	389.0	411.3	427.1	436.1	415.6	408.8	404.8	409.3	399.1
27.0	237.5	250.0	271.6	280.0	289.0	270.8	267.4	263.3	276.0	276.3
30.0	120.4	122.8	136.6	137.9	149.0	132.4	137.2	139.4	155.7	149.3
33.0	57.04	55.92	57.37	62.44	61.78	62.40	63.68	65.52	67.91	65.96
36.0	32.56	32.78	33.99	34.41	35.74	35.41	35.94	36.72	38.04	36.28
39.0	24.87	24.66	24.47	26.04	26.93	25.94	26.11	27.70	28.51	27.68
42.0	19.82	19.57	19.49	20.72	21.11	20.78	20.78	21.77	22.20	22.30
45.0	14.92	15.03	15.63	16.12	16.70	16.54	16.69	16.91	17.53	17.62
48.0	11.01	11.02	11.93	12.24	12.74	12.66	12.99	12.70	13.31	13.38
51.0	7.973	7.979	8.966	9.135	9.484	9.630	9.928	9.584	10.21	10.17
54.0	5.608	5.599	6.532	6.623	6.886	7.045	7.266	6.984	7.392	7.379
57.0	3.871	3.816	4.553	4.540	4.706	4.929	4.968	4.863	4.994	5.148
60.0	3.050	2.982	3.223	3.291	3.412	3.615	3.682	3.599	3.625	3.718
63.0	2.182	2.328	2.316	2.366	2.571	2.673	2.696	2.548	2.534	2.592
66.0	1.135	1.391	1.439	1.572	1.614	1.743	1.642	1.483	1.478	1.487
69.0	0.3874	0.4107	0.4347	0.4531	0.4412	0.4294	0.4084	0.3966	0.3669	0.3569
72.0	0.2999	0.3102	0.3298	0.3458	0.3326	0.3326	0.3101	0.2998	0.2730	0.2714
75.0	0.2298	0.2316	0.2425	0.2626	0.2447	0.2495	0.2271	0.2276	0.1988	0.2057
78.0	0.1708	0.1660	0.1681	0.1926	0.1725	0.1838	0.1616	0.1685	0.1376	0.1488
81.0	0.1204	0.1092	0.1091	0.1357	0.1157	0.1291	0.1048	0.1182	0.0938	0.1029
84.0	0.0789	0.0656	0.0655	0.0898	0.0698	0.0833	0.0633	0.0810	0.0611	0.0744
87.0	0.0547	0.0372	0.0350	0.0548	0.0350	0.0548	0.0350	0.0526	0.0349	0.0503
90.0	0.0306	0.0306	0.0219	0.0241	0.0219	0.0262	0.0219	0.0241	0.0241	0.0241
G/C	300.0	315.0	330.0	345.0						
0.0	4432	4443	4440	4452						
3.0	4526	4497	4465	4406						
6.0	3764	3683	3683	3591						
9.0	2575	2510	2546	2469						
12.0	1681	1655	1679	1644						
15.0	1114	1097	1113	1097						
18.0	760.1	749.3	761.7	745.2						
21.0	549.6	543.7	551.8	541.6						

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	400.0	388.2	394.4	382.5
27.0	276.8	255.1	248.7	240.1
30.0	153.3	137.5	132.7	111.1
33.0	63.16	64.99	60.97	57.48
36.0	36.56	36.55	35.94	34.56
39.0	27.38	27.64	27.47	25.88
42.0	21.92	21.36	21.55	20.68
45.0	17.16	16.25	16.57	16.21
48.0	13.01	12.13	12.27	12.26
51.0	9.899	8.975	8.990	9.061
54.0	7.038	6.367	6.445	6.669
57.0	4.842	4.415	4.576	4.741
60.0	3.527	3.258	3.457	3.499
63.0	2.326	2.242	2.359	2.321
66.0	1.240	1.166	1.165	1.110
69.0	0.3363	0.3370	0.3255	0.3458
72.0	0.2446	0.2539	0.2380	0.2604
75.0	0.1748	0.1861	0.1725	0.1948
78.0	0.1244	0.1357	0.1179	0.1401
81.0	0.0786	0.0963	0.0808	0.1050
84.0	0.0502	0.0722	0.0502	0.0723
87.0	0.0328	0.0482	0.0349	0.0460
90.0	0.0219	0.0241	0.0219	0.0241

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: