

LED Tracklight FOCUS M-42W-940-35D



Light Output Ratio:	100.0%	
Luminaire Power:	41.46 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

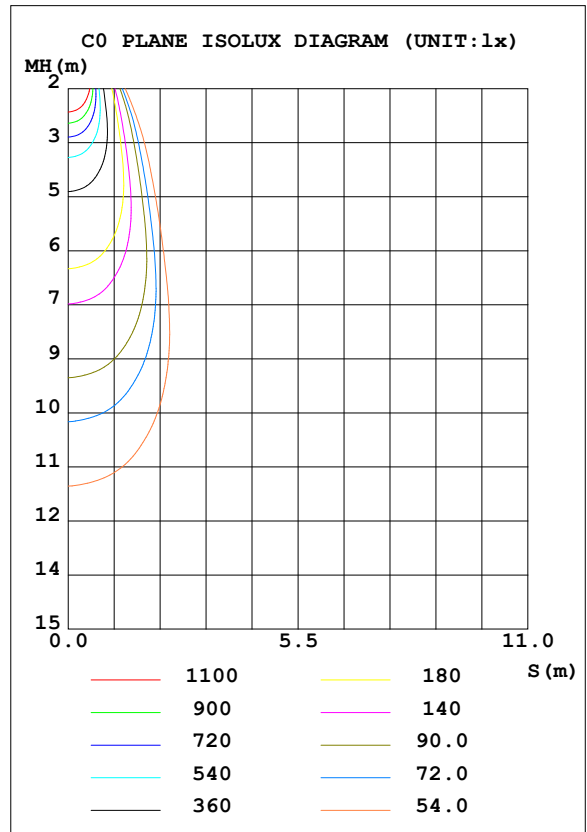
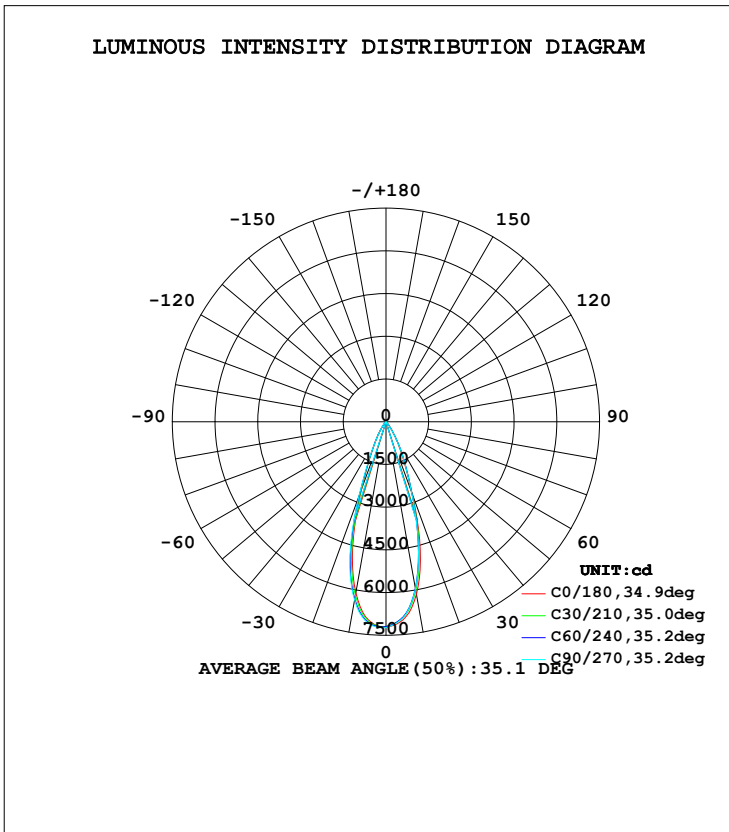
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-07

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:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.1994A P:41.46W PF:0.9420 Lamp Flux:2808.26x1 lm		
NAME: FOCUS M-42W-940-35D	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.73 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	7296	S/MH (C0/180)	0.54
NOMINAL POWER (W)	42	LOR (%)	100.0	S/MH (C90/270)	0.55
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2808.3	η UP, DN (C0-180)	0.0, 49.8
NOMINAL FLUX (lm)	2808.26	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.55



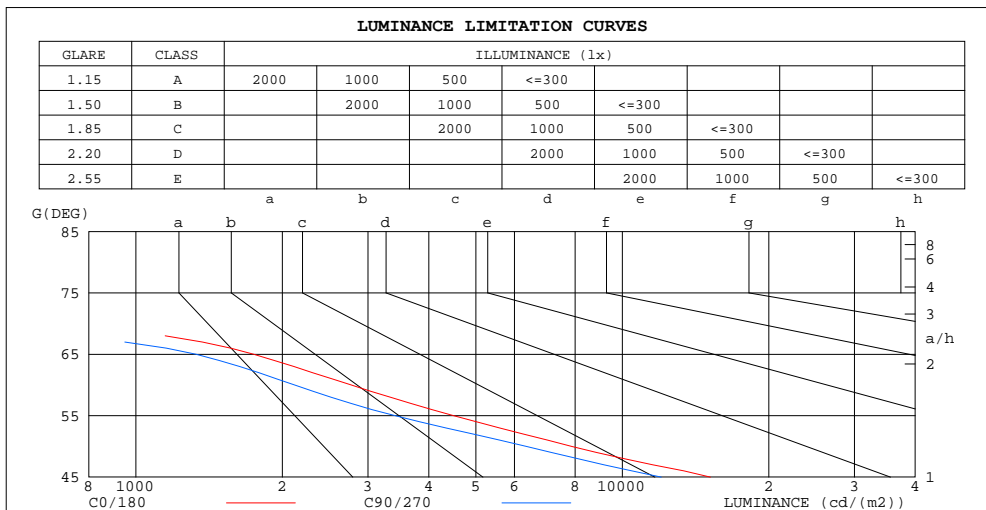
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	6150	5998	5962	6051	6100	6237	6354	6299	0- 10	641.6	641.6	22.8,22.8
20	2685	2707	2621	2548	2504	2590	2780	2750	10- 20	1231	1873	66.7,66.7
30	761.0	813.4	780.2	733.5	659.7	598.4	629.4	650.3	20- 30	652.1	2525	89.9,89.9
40	135.6	128.2	110.5	112.5	126.6	135.9	150.0	147.2	30- 40	211.9	2737	97.5,97.5
50	32.14	28.86	25.94	25.16	28.15	30.95	33.87	34.52	40- 50	52.96	2790	99.3,99.3
60	8.812	8.440	6.736	6.238	6.917	6.914	7.576	6.851	50- 60	13.90	2804	99.8,99.8
70	1.027	0.8799	0.8413	0.8694	0.9324	1.022	1.328	0.9927	60- 70	3.850	2808	100,100
80	0.2495	0.2337	0.2867	0.2774	0.2838	0.3042	0.2948	0.2736	70- 80	0.5389	2808	100,100
90	0.1224	0.1334	0.1334	0.1246	0.0831	0.0787	0.0765	0.0809	80- 90	0.1802	2808	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	288	316
80	226	260
75	258	285
70	472	387
65	1746	1329
60	2772	2119
55	4501	3412
50	7863	6347
45	15170	12020

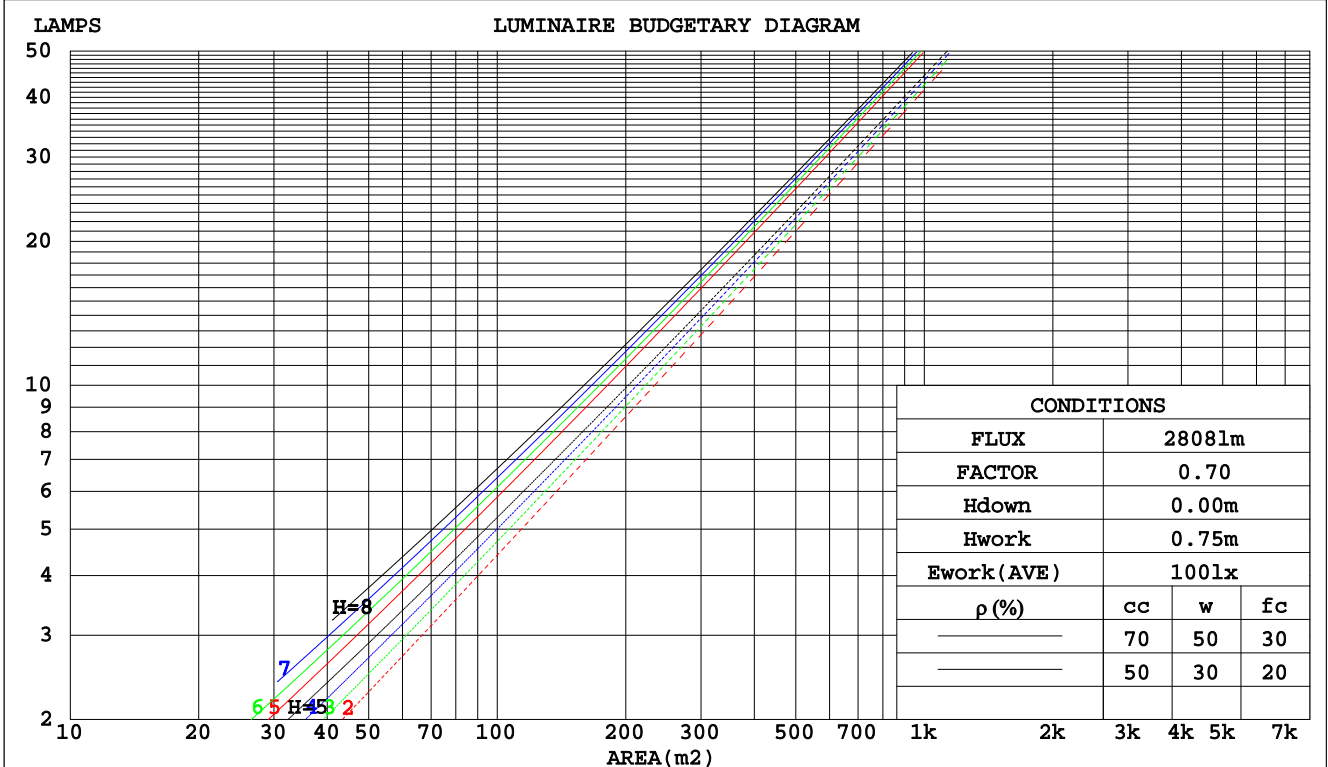
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
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 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.1994A P:41.46W PF:0.9420 Lamp Flux:2808.26x1 lm		
NAME: FOCUS M-42W-940-35D	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
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	.91	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.82	.86	.83	.81	.80
6.0	.88	.83	.79	.87	.82	.79	.85	.82	.79	.84	.81	.78	.83	.80	.78	.76
7.0	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.74	.73
8.0	.81	.76	.73	.80	.76	.72	.79	.75	.72	.78	.75	.72	.77	.74	.72	.70
9.0	.78	.73	.70	.77	.73	.70	.76	.72	.69	.75	.72	.69	.75	.71	.69	.68
10.0	.75	.70	.67	.74	.70	.67	.74	.70	.67	.73	.69	.67	.72	.69	.66	.65



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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	.151	.086	.027	.144	.082	.026	.131	.075	.024	.120	.069	.022	.109	.063	.020	
2.0	.141	.078	.024	.136	.075	.023	.126	.070	.022	.116	.065	.020	.107	.061	.019	
3.0	.133	.071	.021	.129	.069	.021	.120	.065	.020	.112	.061	.019	.104	.058	.018	
4.0	.126	.065	.019	.122	.064	.019	.114	.061	.018	.108	.058	.017	.101	.055	.017	
5.0	.119	.061	.018	.116	.060	.017	.110	.057	.017	.104	.055	.016	.098	.052	.016	
6.0	.113	.057	.016	.111	.056	.016	.105	.054	.016	.100	.052	.015	.095	.050	.015	
7.0	.108	.054	.015	.106	.053	.015	.101	.051	.015	.096	.049	.014	.092	.048	.014	
8.0	.104	.051	.014	.101	.050	.014	.097	.048	.014	.093	.047	.014	.089	.046	.013	
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013	.086	.044	.013	
10.0	.095	.046	.013	.094	.045	.013	.090	.044	.012	.087	.043	.012	.084	.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	.117	.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	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.056	.034	.077	.049	.030	.054	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
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 Remarks:

UGR(Unified Glare Rating) Table

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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	15.1	15.8	15.3	16.0	16.2	14.8	15.6	15.1	15.8	15.9
3H	14.9	15.6	15.2	15.8	16.0	14.7	15.4	14.9	15.6	15.8
4H	14.9	15.5	15.1	15.7	15.9	14.6	15.3	14.9	15.5	15.7
6H	14.8	15.4	15.1	15.6	15.9	14.5	15.2	14.8	15.4	15.6
8H	14.7	15.3	15.0	15.6	15.8	14.5	15.1	14.8	15.3	15.6
12H	14.7	15.3	15.0	15.5	15.8	14.4	15.0	14.8	15.3	15.6
4H 2H	14.9	15.5	15.1	15.7	16.0	14.6	15.3	14.9	15.5	15.7
3H	14.7	15.3	15.0	15.5	15.8	14.5	15.0	14.8	15.3	15.6
4H	14.6	15.1	15.0	15.4	15.7	14.4	14.9	14.7	15.2	15.5
6H	14.5	15.0	14.9	15.3	15.7	14.3	14.7	14.6	15.1	15.4
8H	14.5	14.9	14.9	15.2	15.6	14.2	14.7	14.6	15.0	15.4
12H	14.4	14.8	14.8	15.2	15.6	14.2	14.6	14.6	14.9	15.3
8H 4H	14.5	14.9	14.9	15.2	15.6	14.2	14.7	14.6	15.0	15.4
6H	14.4	14.7	14.8	15.1	15.5	14.1	14.5	14.5	14.9	15.3
8H	14.3	14.6	14.7	15.0	15.5	14.1	14.4	14.5	14.8	15.2
12H	14.2	14.5	14.7	14.9	15.4	14.0	14.3	14.5	14.7	15.2
12H 4H	14.4	14.8	14.8	15.2	15.6	14.2	14.6	14.6	14.9	15.3
6H	14.3	14.6	14.7	15.0	15.5	14.1	14.4	14.5	14.8	15.2
8H	14.2	14.5	14.7	14.9	15.4	14.0	14.3	14.5	14.7	15.2
Variations with the observer position at spacings:										
S = 1.0H	+ 3.7 / - 8.9					+ 3.5 / - 9.7				
1.5H	+ 5.6 / - 7.1					+ 5.5 / - 6.8				
2.0H	+ 5.7 / - 5.7					+ 5.3 / - 5.4				

CIE Pub.117 Corrected 2808 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.6)

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

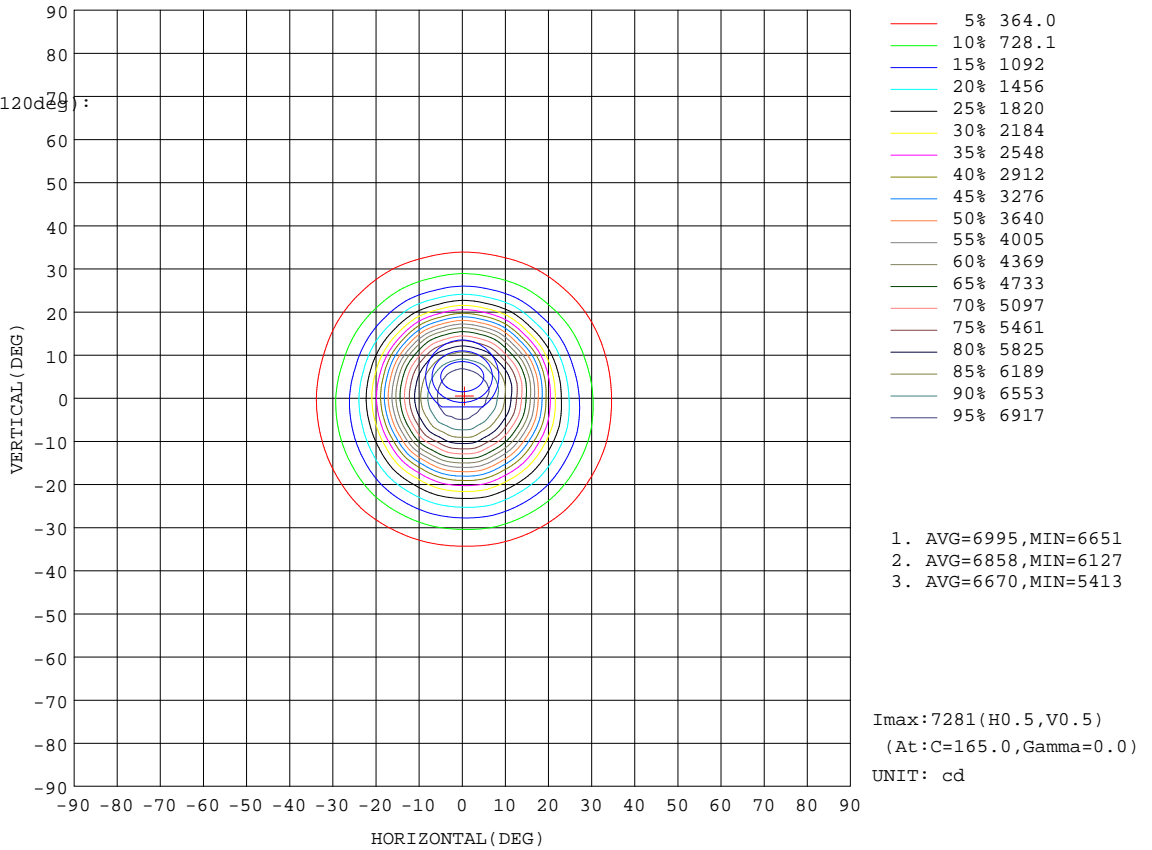
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Conical surface Flux(90deg):

2771.6 lm
%lum = 98.7%
%lamp = 98.7%

Conical surface Flux(120deg):

2803.7 lm
%lum = 99.8%
%lamp = 99.8%

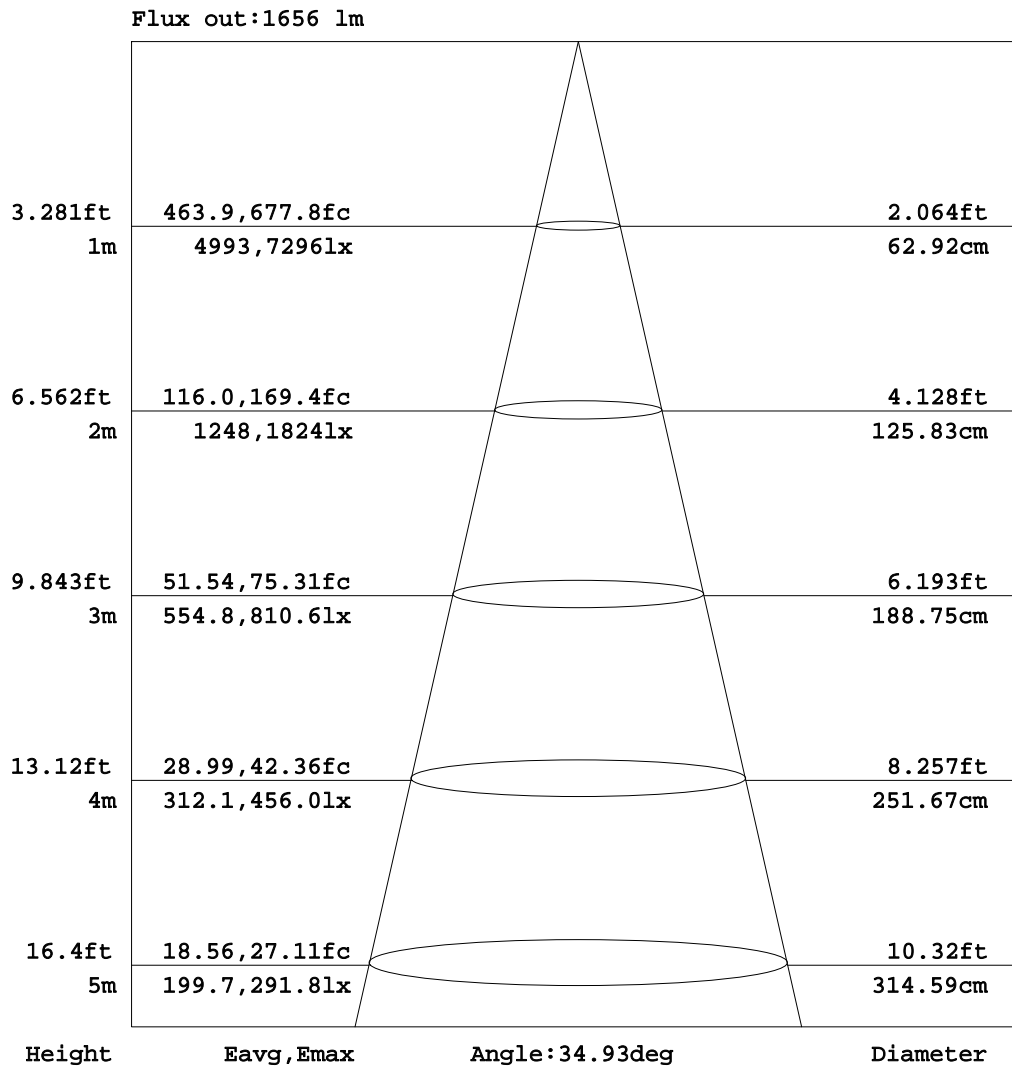


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AAI Figure

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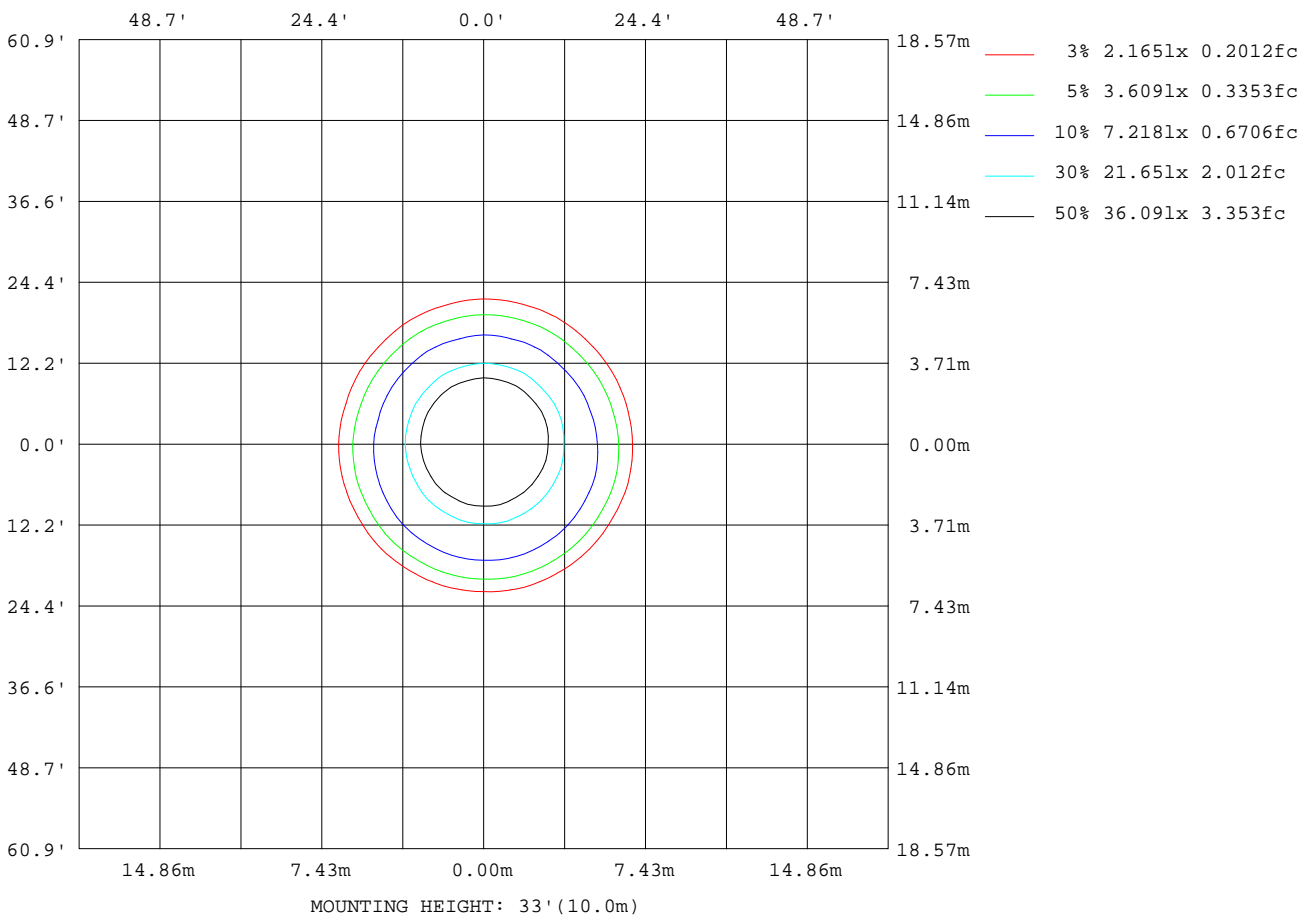
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

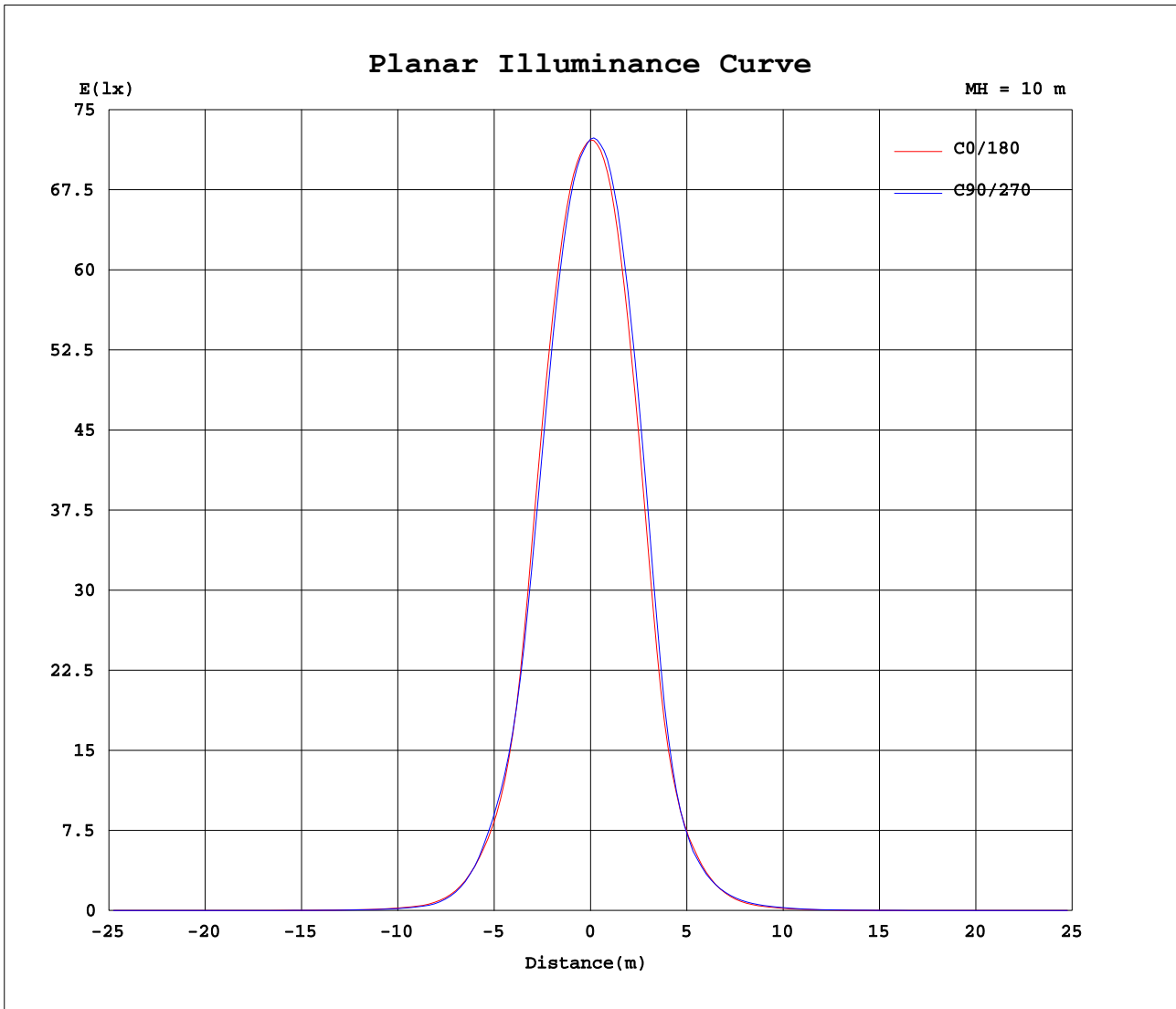
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Planar Illuminance Curve



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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	7218	7220	7189	7192	7189	7225	7225	7238	7237	7284
3.0	7113	7106	7066	7064	7050	7091	7080	7098	7088	7150
6.0	6869	6860	6793	6786	6759	6798	6775	6796	6781	6861
9.0	6372	6356	6261	6239	6185	6250	6202	6233	6188	6297
12.0	5640	5608	5490	5454	5376	5443	5380	5408	5354	5482
15.0	4662	4639	4500	4470	4381	4442	4366	4398	4325	4446
18.0	3475	3490	3393	3394	3334	3380	3301	3299	3210	3276
21.0	2351	2409	2380	2412	2376	2404	2339	2336	2246	2260
24.0	1594	1677	1672	1708	1699	1716	1675	1657	1599	1586
27.0	1109	1182	1193	1213	1228	1248	1194	1184	1146	1113
30.0	761.0	805.3	794.1	813.4	805.9	813.4	780.2	772.3	741.2	733.5
33.0	477.5	496.2	482.6	492.0	484.5	484.9	464.3	459.8	443.5	442.6
36.0	282.9	288.8	275.3	281.4	276.2	272.0	258.4	258.9	250.4	252.7
39.0	164.0	163.7	151.2	152.4	148.2	146.1	135.5	141.0	133.9	140.9
42.0	101.0	98.75	91.14	90.14	88.83	85.80	83.61	84.27	84.37	86.11
45.0	68.20	65.00	59.52	58.24	57.40	55.13	54.04	54.17	53.62	55.72
48.0	42.81	41.42	37.23	37.45	36.52	34.83	34.39	34.28	33.22	34.49
51.0	28.11	27.68	25.10	25.33	24.45	22.59	22.41	22.15	21.25	21.42
54.0	18.73	19.17	17.43	17.25	16.51	14.65	14.32	14.45	13.84	13.60
57.0	12.71	13.56	12.24	11.92	11.32	9.878	9.584	9.641	9.317	9.039
60.0	8.812	9.700	8.699	8.440	7.953	6.979	6.736	6.673	6.469	6.238
63.0	6.101	6.835	6.123	6.021	5.635	4.959	4.719	4.656	4.533	4.309
66.0	4.050	4.404	4.007	4.050	3.676	3.157	2.987	2.976	2.888	2.759
69.0	1.781	1.827	1.630	1.620	1.264	1.091	1.006	1.055	1.008	1.031
72.0	0.6178	0.6242	0.6005	0.6113	0.5833	0.6094	0.6203	0.6401	0.6443	0.6554
75.0	0.4247	0.4129	0.4203	0.4173	0.4291	0.4391	0.4684	0.4806	0.4816	0.4806
78.0	0.3065	0.2906	0.3043	0.2927	0.3131	0.3081	0.3437	0.3451	0.3502	0.3430
81.0	0.2298	0.2076	0.2276	0.2097	0.2407	0.2250	0.2583	0.2490	0.2518	0.2425
84.0	0.1751	0.1573	0.1729	0.1551	0.1860	0.1639	0.1927	0.1726	0.1817	0.1725
87.0	0.1401	0.1268	0.1466	0.1334	0.1553	0.1312	0.1489	0.1290	0.1422	0.1224
90.0	0.1224	0.1224	0.1334	0.1334	0.1399	0.1399	0.1334	0.1312	0.1246	0.1246
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	7281	7296	7218	7220	7189	7192	7189	7225	7238	7238
3.0	7147	7178	7147	7165	7153	7164	7174	7190	7201	7203
6.0	6855	6893	6883	6897	6917	6938	6987	6999	7021	6998
9.0	6268	6319	6333	6352	6414	6466	6530	6538	6575	6549
12.0	5453	5503	5547	5576	5668	5716	5812	5798	5862	5832
15.0	4377	4439	4518	4548	4655	4708	4849	4818	4902	4871
18.0	3184	3222	3306	3312	3416	3468	3603	3564	3660	3633
21.0	2161	2141	2173	2156	2199	2215	2323	2270	2366	2344
24.0	1498	1452	1449	1395	1418	1392	1469	1422	1480	1468
27.0	1055	1017	971.0	933.4	917.2	896.9	924.5	910.9	951.1	935.8
30.0	693.1	679.7	659.7	617.9	609.1	598.4	612.3	605.0	629.4	621.4
33.0	420.5	417.9	414.8	392.7	392.4	387.6	399.2	396.9	411.8	409.2
36.0	242.6	244.9	249.5	243.3	248.6	247.8	257.4	257.6	268.4	266.9
39.0	134.8	142.3	146.6	148.7	156.2	158.2	166.3	167.6	174.1	172.6
42.0	85.42	89.09	94.09	97.95	102.8	106.1	110.7	113.2	114.9	114.8
45.0	54.94	57.68	61.27	64.75	68.17	71.14	75.41	77.21	79.13	78.31
48.0	34.38	36.04	37.86	38.99	41.35	42.82	45.72	46.87	47.38	47.04
51.0	21.85	23.41	24.40	24.61	26.13	26.48	27.72	29.02	28.95	29.05
54.0	13.89	15.50	15.70	15.67	16.48	16.55	17.08	17.45	18.51	18.62
57.0	9.119	10.35	10.23	9.993	10.42	10.46	10.52	10.76	11.77	11.79
60.0	6.253	7.112	6.917	6.732	7.015	6.914	6.902	7.176	7.576	7.597
63.0	4.312	4.957	4.770	4.700	4.829	4.687	4.729	4.960	5.166	5.038
66.0	2.711	3.227	3.061	2.996	3.123	3.048	3.124	3.332	3.471	3.302
69.0	1.012	1.261	1.236	1.194	1.349	1.396	1.569	1.723	1.922	1.771
72.0	0.6574	0.6750	0.7032	0.7008	0.7400	0.7335	0.7488	0.7508	0.7443	0.7246
75.0	0.4904	0.5025	0.5132	0.5209	0.5220	0.5253	0.5307	0.5296	0.5198	0.5099
78.0	0.3590	0.3583	0.3625	0.3764	0.3712	0.3786	0.3712	0.3830	0.3691	0.3699
81.0	0.2605	0.2577	0.2489	0.2627	0.2533	0.2692	0.2554	0.2757	0.2598	0.2670
84.0	0.1905	0.1791	0.1636	0.1796	0.1637	0.1861	0.1637	0.1883	0.1768	0.1905
87.0	0.1401	0.1246	0.0939	0.1161	0.0960	0.1204	0.1004	0.1248	0.1091	0.1248
90.0	0.1181	0.1181	0.0831	0.0809	0.0765	0.0787	0.0743	0.0787	0.0765	0.0787
G/C	300.0	315.0	330.0	345.0						
0.0	7237	7284	7281	7296						
3.0	7203	7221	7222	7210						
6.0	7001	6996	6995	6976						
9.0	6566	6520	6527	6494						
12.0	5866	5784	5818	5783						
15.0	4934	4837	4882	4828						
18.0	3731	3619	3677	3628						
21.0	2437	2354	2423	2399						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-08-07

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:

Photometric Data Table [cd]

24.0	1530	1490	1550	1567
27.0	972.8	976.3	1021	1036
30.0	645.5	650.3	685.5	705.4
33.0	425.1	425.8	445.1	458.9
36.0	275.4	271.5	279.8	281.2
39.0	176.9	172.1	172.7	168.1
42.0	115.3	112.4	109.0	104.6
45.0	79.24	77.66	75.16	71.41
48.0	47.98	47.67	46.56	44.07
51.0	29.35	29.46	28.96	27.58
54.0	18.51	17.52	17.49	17.38
57.0	11.39	10.50	10.80	11.16
60.0	7.054	6.851	7.051	7.315
63.0	4.725	4.733	4.851	5.002
66.0	3.150	3.159	3.257	3.313
69.0	1.707	1.570	1.642	1.601
72.0	0.7027	0.6633	0.6482	0.6373
75.0	0.4827	0.4640	0.4390	0.4333
78.0	0.3429	0.3370	0.3079	0.3129
81.0	0.2423	0.2451	0.2162	0.2276
84.0	0.1659	0.1751	0.1463	0.1620
87.0	0.1026	0.1226	0.0961	0.1138
90.0	0.0765	0.0809	0.0809	0.0831

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-08-07

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: