

LED Tracklight FOCUS M-42W-930-18D



Light Output Ratio:	100.0%	
Luminaire Power:	41.17 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

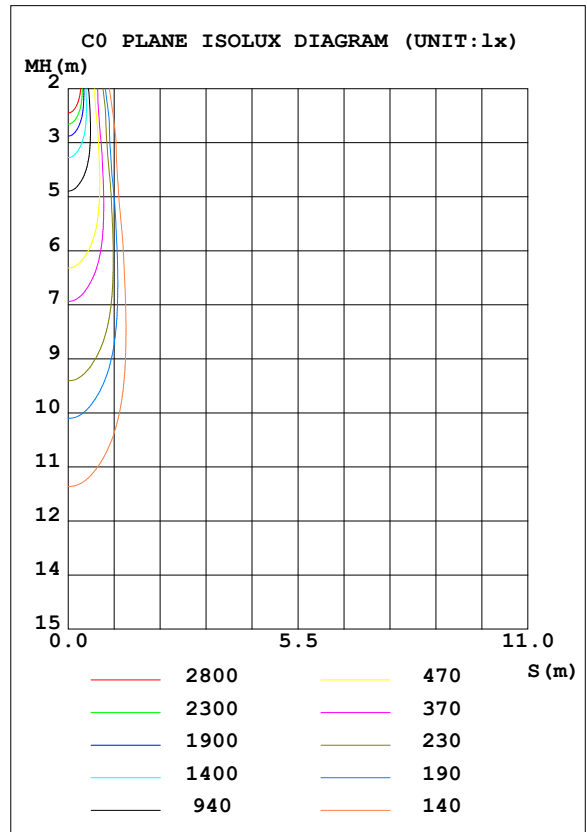
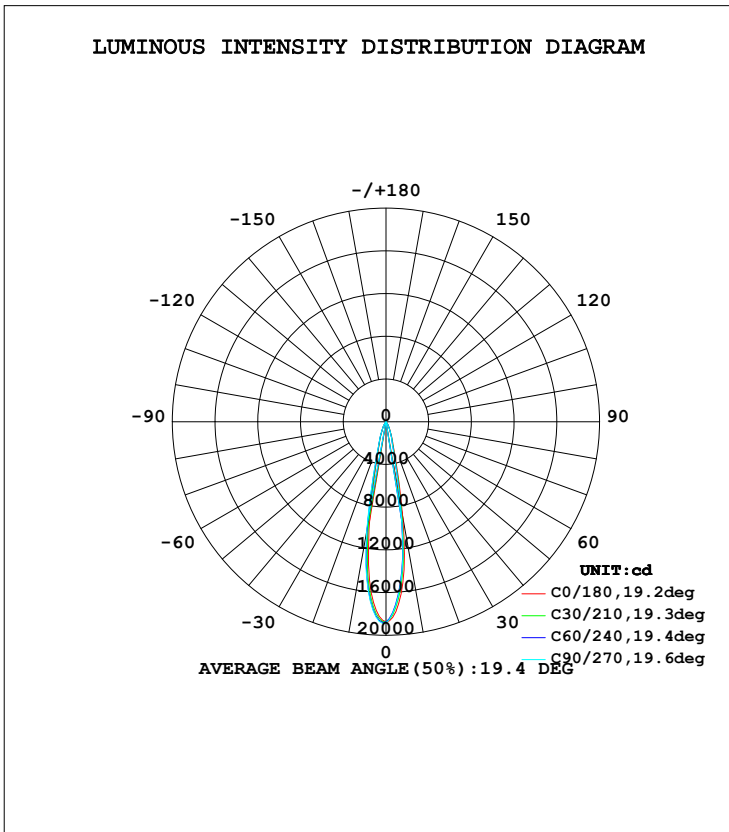
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-07

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:220.6V I:0.1985A P:41.17W PF:0.9402 Lamp Flux:2875.27x1 lm		
NAME: FOCUS M-42W-930-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.84 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	18896	S/MH (C0/180)	0.31
NOMINAL POWER (W)	42	LOR (%)	100.0	S/MH (C90/270)	0.33
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2875.3	η UP, DN (C0-180)	0.0, 47.4
NOMINAL FLUX (lm)	2875.27	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.6
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



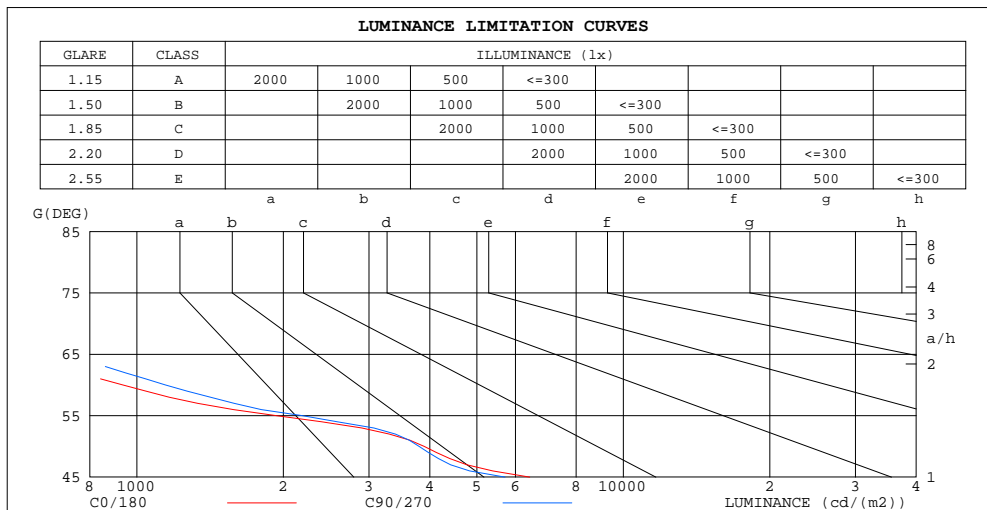
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	901.7	811.6	778.7	796.9	837.3	948.9	1045	993.5	0- 10	1309	1309	45.5,45.5
20	163.7	148.4	143.4	151.1	155.8	165.3	173.5	171.2	10- 20	975.1	2284	79.5,79.5
30	50.51	46.66	44.34	46.57	49.06	48.71	51.53	53.62	20- 30	413.2	2698	93.8,93.8
40	7.739	6.936	6.399	6.495	6.997	7.532	8.435	8.776	30- 40	142.0	2840	98.8,98.8
50	1.593	1.578	1.555	1.514	1.693	1.489	1.375	1.615	40- 50	26.06	2866	99.7,99.7
60	0.2974	0.3149	0.3639	0.3073	0.3962	0.2906	0.4051	0.3552	50- 60	7.430	2873	99.9,99.9
70	0.0492	0.0468	0.0473	0.0446	0.0434	0.0417	0.0499	0.0559	60- 70	1.759	2875	100,100
80	0.0201	0.0179	0.0206	0.0170	0.0162	0.0164	0.0144	0.0184	70- 80	0.3015	2875	100,100
90	0.0120	0.0114	0.0129	0.0118	0.0083	0.0081	0.0083	0.0090	80- 90	0.1382	2875	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: $\times 10cd$									UNIT: lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	257	269
80	182	186
75	185	185
70	226	218
65	563	699
60	935	1145
55	1937	2189
50	3897	3804
45	6422	5713

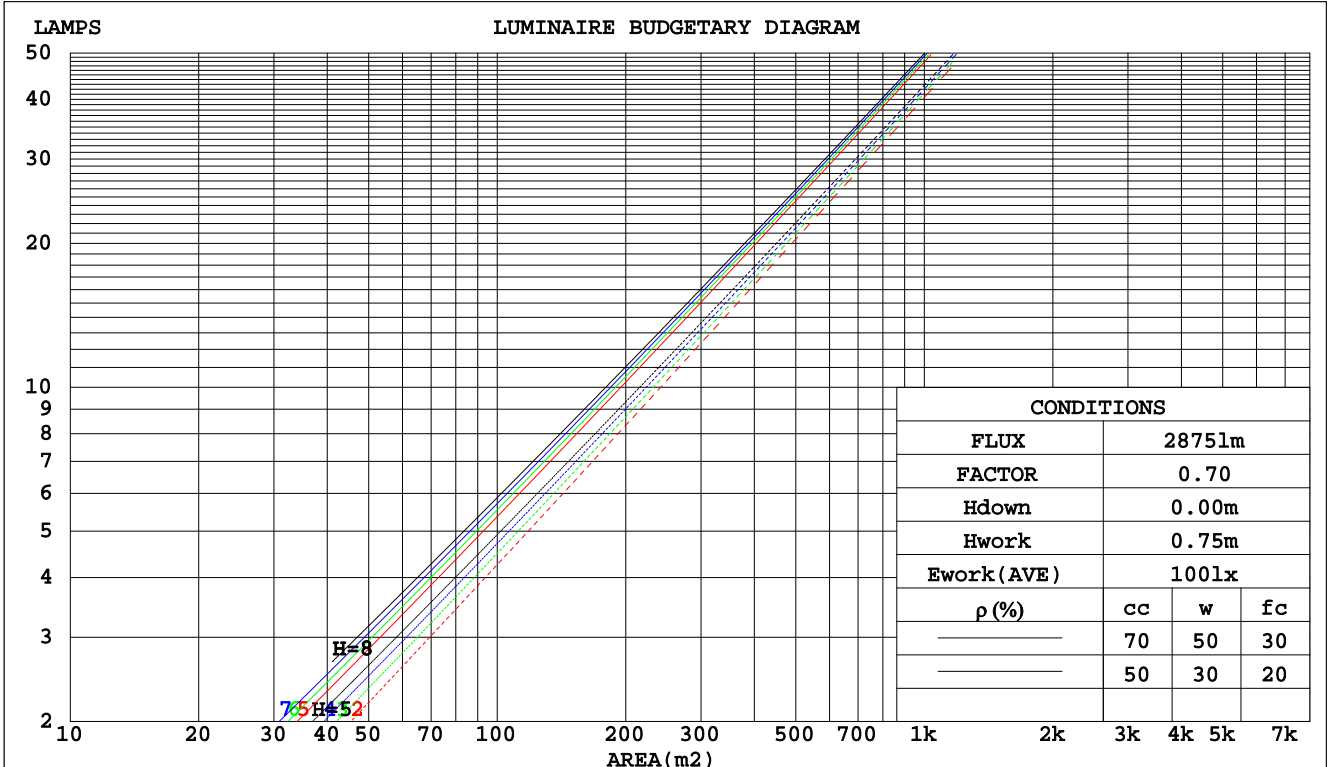
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.1985A P:41.17W PF:0.9402 Lamp Flux:2875.27x1 lm		
NAME: FOCUS M-42W-930-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ90mm*H220mm	
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	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	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.02	1.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.07	1.04	1.02	1.03	1.01	.99	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.00	.98	1.03	.99	.97	1.00	.98	.95	.98	.96	.94	.96	.94	.93	.91
4.0	1.00	.96	.93	.99	.96	.93	.97	.94	.92	.95	.93	.91	.94	.92	.90	.89
5.0	.97	.93	.90	.96	.92	.90	.94	.91	.89	.93	.90	.88	.91	.89	.87	.86
6.0	.94	.90	.87	.93	.89	.87	.92	.89	.86	.91	.88	.86	.89	.87	.85	.84
7.0	.91	.87	.84	.90	.87	.84	.89	.86	.84	.88	.85	.83	.87	.85	.83	.82
8.0	.89	.85	.82	.88	.84	.82	.87	.84	.82	.86	.83	.81	.85	.83	.81	.80
9.0	.86	.82	.80	.86	.82	.80	.85	.82	.80	.84	.81	.79	.84	.81	.79	.78
10.0	.84	.80	.78	.84	.80	.78	.83	.80	.78	.83	.80	.77	.82	.79	.77	.76



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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	.131	.075	.024	.125	.071	.023	.113	.065	.021	.101	.058	.019	.091	.053	.017	
2.0	.122	.067	.020	.116	.064	.020	.106	.059	.018	.097	.054	.017	.088	.050	.016	
3.0	.113	.060	.018	.109	.058	.017	.100	.054	.016	.092	.051	.016	.085	.047	.015	
4.0	.106	.055	.016	.102	.053	.016	.095	.050	.015	.088	.047	.014	.082	.045	.014	
5.0	.099	.051	.015	.096	.049	.014	.090	.047	.014	.084	.045	.013	.079	.042	.013	
6.0	.094	.047	.013	.091	.046	.013	.086	.044	.013	.081	.042	.012	.076	.040	.012	
7.0	.089	.044	.012	.086	.043	.012	.082	.041	.012	.078	.040	.012	.074	.038	.011	
8.0	.084	.041	.012	.082	.041	.011	.078	.039	.011	.075	.038	.011	.071	.037	.011	
9.0	.080	.039	.011	.079	.038	.011	.075	.037	.011	.072	.036	.010	.069	.035	.010	
10.0	.077	.037	.010	.075	.036	.010	.072	.035	.010	.069	.034	.010	.067	.034	.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	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.119	.128	.114	.103	.088	.079	.072	.051	.046	.042	.016	.015	.014	
3.0	.134	.113	.096	.115	.098	.084	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.121	.098	.080	.104	.084	.069	.072	.059	.049	.041	.034	.029	.013	.011	.009	
5.0	.111	.085	.067	.095	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.102	.075	.056	.087	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.094	.067	.048	.081	.058	.042	.056	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.087	.060	.042	.075	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.081	.054	.036	.070	.047	.032	.049	.033	.022	.028	.020	.013	.009	.006	.004	
10.0	.076	.050	.032	.066	.043	.028	.046	.030	.020	.027	.018	.012	.009	.006	.004	

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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 Test Distance:5.850m [K=1.0000]
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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	11.5	12.1	11.7	12.2	12.4	10.8	11.4	11.0	11.6	11.7
3H	11.3	11.9	11.6	12.1	12.3	10.7	11.2	10.9	11.4	11.6
4H	11.2	11.8	11.5	12.0	12.2	10.6	11.1	10.8	11.3	11.5
6H	11.2	11.7	11.4	11.9	12.1	10.5	11.0	10.8	11.2	11.5
8H	11.1	11.6	11.4	11.9	12.1	10.4	10.9	10.7	11.2	11.4
12H	11.1	11.6	11.4	11.8	12.1	10.4	10.9	10.7	11.1	11.4
4H 2H	11.3	11.8	11.5	12.0	12.2	10.6	11.1	10.8	11.3	11.5
3H	11.1	11.6	11.4	11.8	12.1	10.4	10.9	10.7	11.2	11.4
4H	11.0	11.4	11.3	11.7	12.0	10.3	10.8	10.7	11.1	11.4
6H	10.9	11.3	11.3	11.6	11.9	10.2	10.6	10.6	10.9	11.3
8H	10.8	11.2	11.2	11.5	11.9	10.2	10.5	10.5	10.9	11.2
12H	10.8	11.1	11.2	11.5	11.9	10.1	10.4	10.5	10.8	11.2
8H 4H	10.8	11.2	11.2	11.5	11.9	10.2	10.5	10.5	10.9	11.2
6H	10.7	11.0	11.1	11.4	11.8	10.0	10.4	10.5	10.7	11.2
8H	10.7	10.9	11.1	11.3	11.8	10.0	10.3	10.4	10.7	11.1
12H	10.6	10.8	11.1	11.3	11.7	9.9	10.2	10.4	10.6	11.1
12H 4H	10.8	11.1	11.2	11.5	11.9	10.1	10.4	10.5	10.8	11.2
6H	10.7	10.9	11.1	11.3	11.8	10.0	10.3	10.4	10.7	11.1
8H	10.6	10.8	11.1	11.3	11.7	9.9	10.2	10.4	10.6	11.1
Variations with the observer position at spacings:										
S = 1.0H	+ 4.1 / -12.1					+ 3.7 / -10.1				
1.5H	+ 6.3 / - 9.8					+ 5.8 / - 7.2				
2.0H	+ 5.4 / - 7.6					+ 4.5 / - 6.1				

CIE Pub.117 Corrected 2875 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.7)

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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	91	85	82	90	85	82	90	85	81	78
0.80	98	93	89	97	92	89	96	92	89	85
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	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

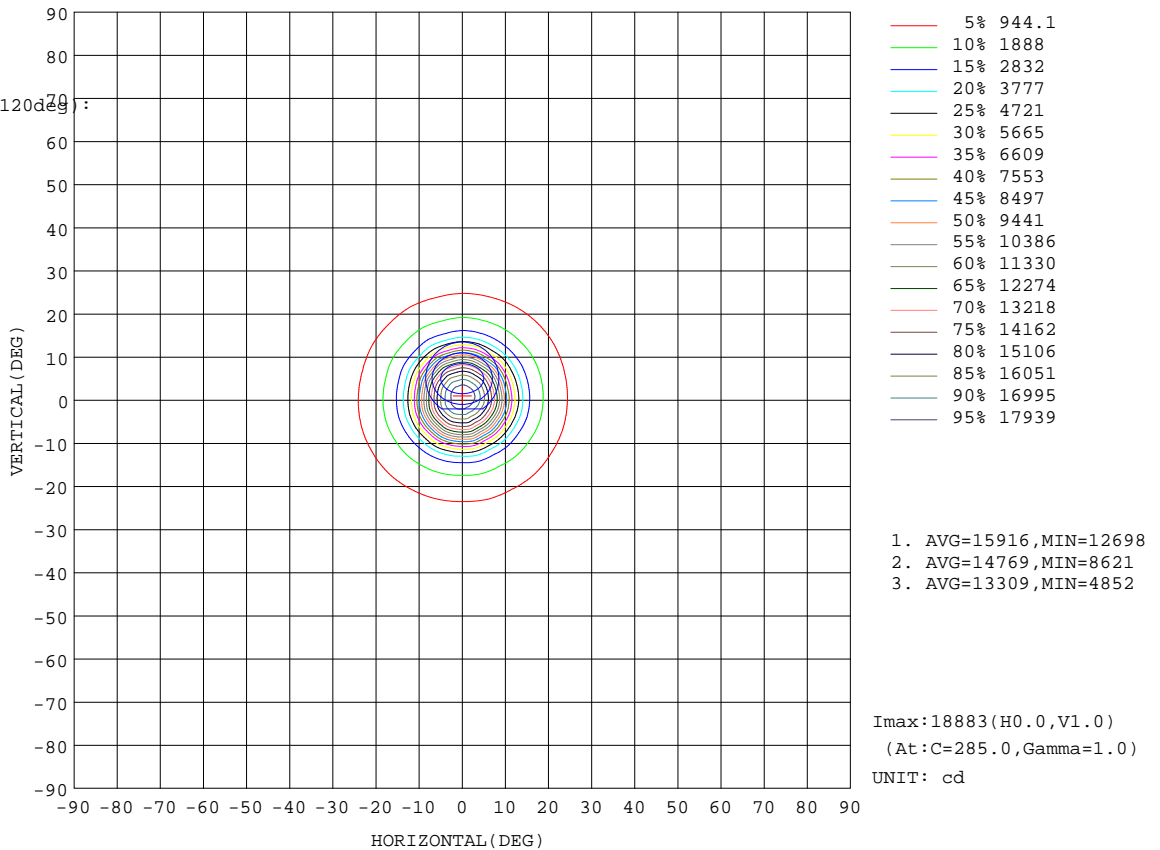
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Conical surface Flux(90deg):

2857.6 lm
%lum = 99.4%
%lamp = 99.4%

Conical surface Flux(120deg):

2873.1 lm
%lum = 99.9%
%lamp = 99.9%



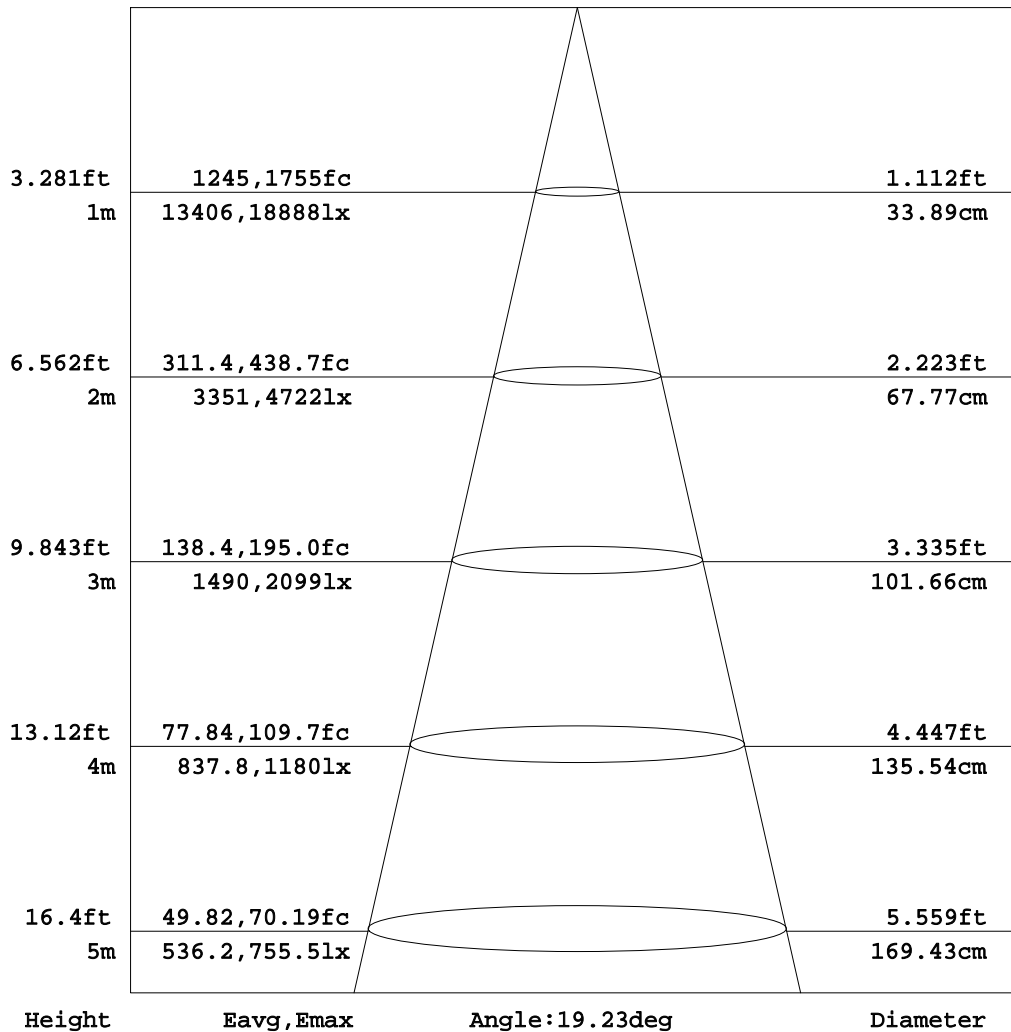
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AAI Figure

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Flux out:1309 lm



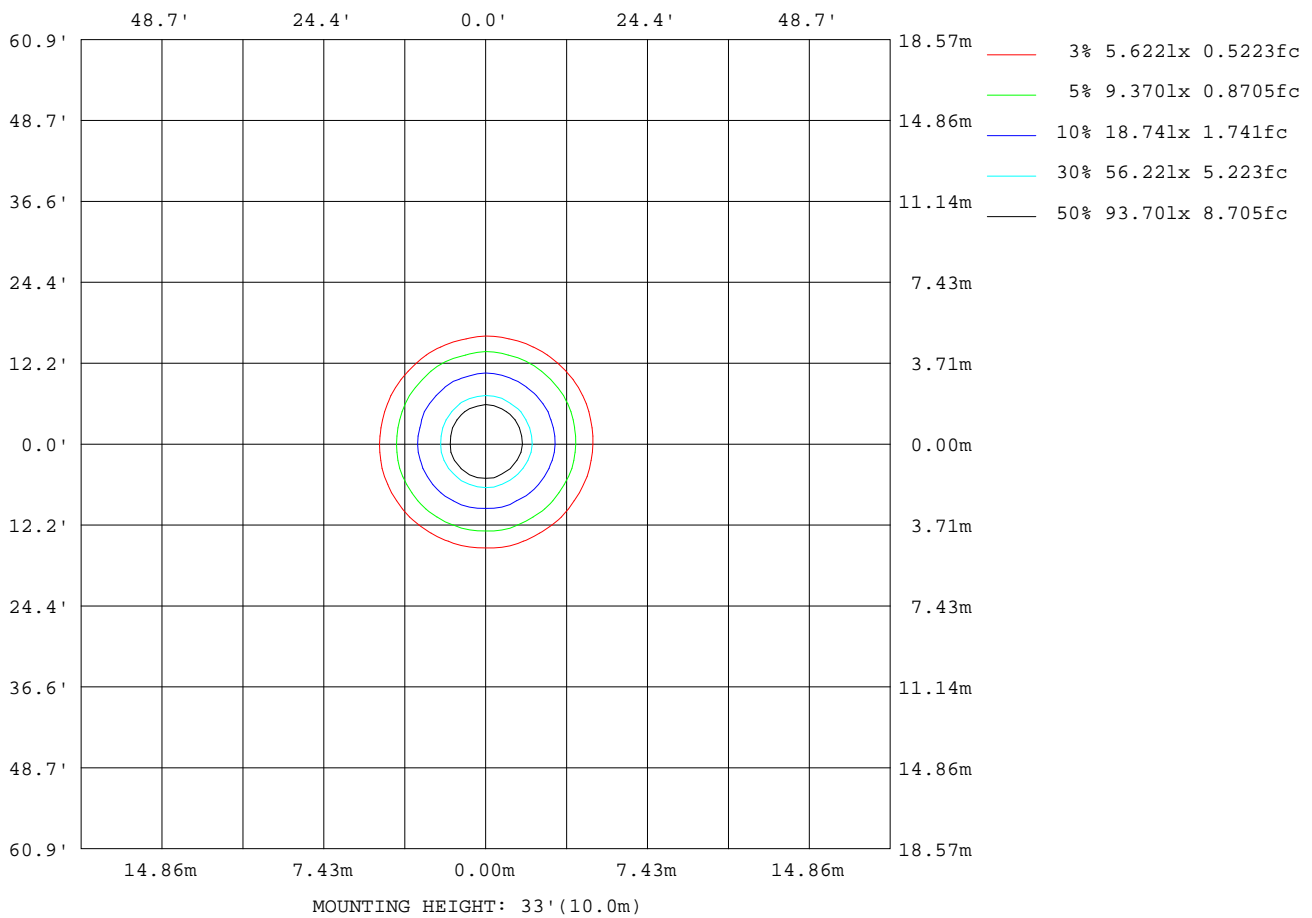
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

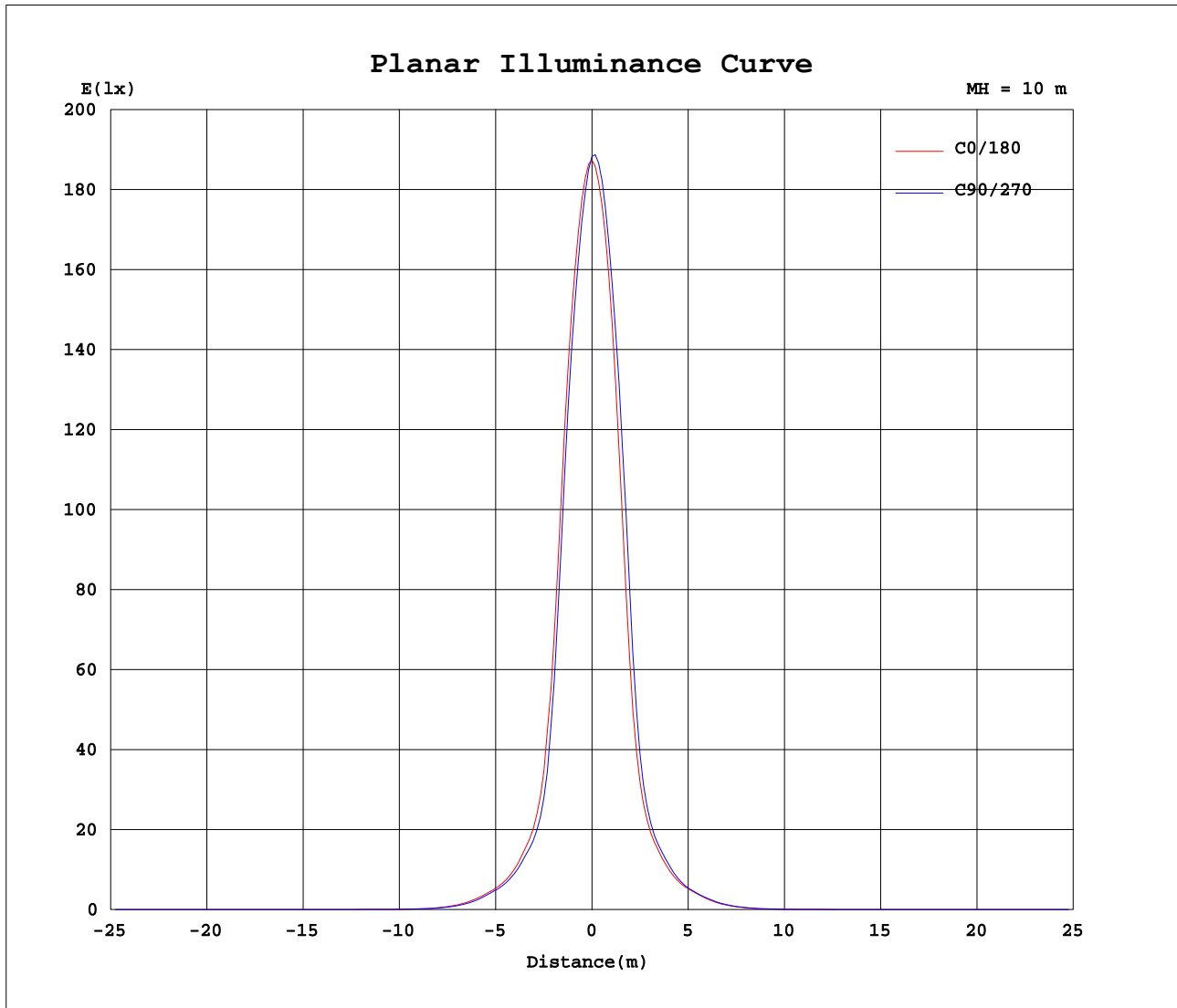
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Planar Illuminance Curve



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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	18740	18743	18741	18757	18747	18839	18831	18863	18887	18887
3.0	17795	17666	17434	17357	17174	17350	17255	17352	17523	17563
6.0	15184	14980	14595	14441	14142	14419	14255	14369	14594	14618
9.0	10793	10578	9960	9854	9390	9867	9540	9693	9891	9803
12.0	5909	5710	5408	5135	4935	5003	4933	4865	5176	4985
15.0	3139	3059	2858	2783	2605	2660	2572	2631	2704	2755
18.0	2045	2008	1911	1867	1791	1808	1777	1805	1832	1881
21.0	1426	1410	1325	1322	1265	1304	1266	1281	1301	1343
24.0	985.5	965.4	926.5	920.2	893.9	907.9	890.0	901.9	907.4	928.5
27.0	717.1	707.7	684.3	680.2	661.6	669.9	657.2	663.7	663.8	680.6
30.0	505.1	495.0	470.5	466.6	449.5	455.8	443.4	450.3	451.7	465.7
33.0	313.6	305.6	286.6	283.4	270.3	273.6	264.3	269.2	270.3	279.8
36.0	179.7	175.1	163.6	161.6	153.0	154.5	148.6	152.5	152.1	157.8
39.0	98.13	95.27	89.49	87.81	81.39	82.48	79.45	81.26	79.63	82.09
42.0	53.45	53.03	52.08	50.88	47.54	48.83	47.71	48.23	47.54	48.12
45.0	28.88	29.07	28.11	27.85	25.63	26.47	25.69	26.29	24.55	25.69
48.0	18.71	18.80	18.47	18.43	18.04	17.83	17.74	17.91	16.51	17.82
51.0	14.56	14.15	13.41	14.40	14.80	14.84	14.52	14.58	13.27	13.81
54.0	8.950	8.756	7.663	8.809	9.896	9.966	9.647	9.902	8.596	8.456
57.0	4.620	4.591	4.361	4.835	5.828	5.820	5.491	5.692	4.999	4.685
60.0	2.974	3.003	2.949	3.149	3.815	3.765	3.639	3.875	3.237	3.073
63.0	1.991	2.009	1.971	2.133	2.536	2.450	2.486	2.625	2.112	2.048
66.0	1.290	1.336	1.277	1.343	1.621	1.541	1.593	1.712	1.341	1.297
69.0	0.6601	0.7065	0.6640	0.6912	0.8611	0.7736	0.7636	0.8602	0.6621	0.6606
72.0	0.3919	0.3823	0.3855	0.3735	0.3745	0.3649	0.3854	0.3714	0.3678	0.3495
75.0	0.3042	0.2884	0.2999	0.2819	0.2933	0.2819	0.3042	0.2862	0.2846	0.2666
78.0	0.2320	0.2141	0.2341	0.2141	0.2254	0.2120	0.2407	0.2207	0.2232	0.2054
81.0	0.1882	0.1660	0.1860	0.1617	0.1860	0.1638	0.1904	0.1704	0.1751	0.1573
84.0	0.1532	0.1333	0.1531	0.1268	0.1510	0.1311	0.1597	0.1355	0.1445	0.1267
87.0	0.1313	0.1203	0.1334	0.1137	0.1334	0.1203	0.1378	0.1246	0.1269	0.1137
90.0	0.1203	0.1203	0.1246	0.1137	0.1224	0.1224	0.1290	0.1290	0.1203	0.1181
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	18882	18888	18740	18743	18741	18757	18747	18839	18831	18863
3.0	17685	17787	17684	17785	17975	18057	18195	18181	18298	18287
6.0	14828	15000	14898	15050	15418	15548	15841	15723	15911	15855
9.0	10033	10302	10176	10346	11032	11275	11796	11736	12010	11988
12.0	5346	5384	5353	5634	5962	6164	6688	6527	6881	6778
15.0	2825	2929	2940	2994	3194	3227	3420	3305	3471	3426
18.0	1902	1949	1961	1973	2048	2057	2138	2093	2160	2129
21.0	1344	1381	1387	1371	1443	1443	1516	1485	1549	1532
24.0	937.3	953.4	955.7	948.9	979.7	981.7	1021	1004	1042	1031
27.0	690.7	700.5	699.3	688.3	697.0	691.9	709.5	701.8	724.7	723.4
30.0	471.8	483.4	490.6	481.4	491.9	487.1	503.4	497.7	515.3	518.9
33.0	282.8	290.7	298.6	294.6	304.1	301.4	314.7	311.7	325.6	326.8
36.0	158.8	163.0	169.5	167.1	174.1	171.7	181.2	179.3	188.7	188.9
39.0	81.89	84.61	89.46	90.63	95.60	94.93	99.85	99.82	104.8	105.1
42.0	47.23	48.04	50.42	51.56	53.45	52.25	54.56	53.76	55.69	57.21
45.0	24.29	24.87	27.70	28.35	29.64	27.88	29.37	28.43	29.74	29.76
48.0	17.41	17.34	19.52	19.30	19.11	17.61	16.59	16.29	16.25	16.28
51.0	13.70	13.93	15.62	14.84	14.58	13.58	12.86	13.07	12.84	12.83
54.0	7.814	8.757	10.11	9.101	8.601	8.573	8.885	9.602	9.874	9.328
57.0	4.319	4.827	5.982	5.122	4.329	4.300	4.802	5.390	5.668	5.392
60.0	2.927	3.224	3.962	3.242	2.884	2.906	3.164	3.624	4.051	3.783
63.0	1.956	2.153	2.655	2.141	1.921	1.951	2.111	2.400	2.844	2.688
66.0	1.264	1.402	1.731	1.340	1.233	1.259	1.358	1.522	1.661	1.643
69.0	0.6160	0.7191	0.9085	0.6313	0.5860	0.5942	0.6643	0.7761	0.8012	0.8004
72.0	0.3548	0.3430	0.3363	0.3349	0.3210	0.3305	0.3209	0.3350	0.3318	0.3525
75.0	0.2780	0.2666	0.2534	0.2582	0.2359	0.2473	0.2337	0.2473	0.2359	0.2604
78.0	0.2167	0.2010	0.1879	0.2013	0.1770	0.1904	0.1704	0.1882	0.1726	0.1991
81.0	0.1773	0.1660	0.1442	0.1597	0.1332	0.1531	0.1267	0.1466	0.1311	0.1553
84.0	0.1444	0.1289	0.1070	0.1247	0.1004	0.1182	0.0940	0.1160	0.1027	0.1269
87.0	0.1247	0.1115	0.0809	0.0984	0.0787	0.0941	0.0809	0.0963	0.0831	0.1028
90.0	0.1137	0.1137	0.0831	0.0831	0.0787	0.0809	0.0809	0.0831	0.0831	0.0853
G/C	300.0	315.0	330.0	345.0						
0.0	18887	18887	18882	18888						
3.0	18190	18194	18079	18000						
6.0	15667	15702	15499	15316						
9.0	11542	11658	11220	10829						
12.0	6469	6539	6200	5931						
15.0	3359	3343	3297	3177						
18.0	2122	2115	2120	2077						
21.0	1528	1517	1501	1454						

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	1037	1034	1027	1001
27.0	734.6	741.3	747.9	733.4
30.0	530.2	536.2	539.2	525.7
33.0	336.5	339.5	343.8	331.4
36.0	195.8	196.1	199.1	191.2
39.0	108.4	109.6	110.7	105.9
42.0	57.76	59.26	58.19	58.41
45.0	32.27	32.27	33.24	32.63
48.0	18.88	18.95	20.52	20.78
51.0	15.24	15.05	15.72	15.74
54.0	11.04	11.00	10.42	9.389
57.0	6.151	5.758	5.545	4.928
60.0	3.916	3.552	3.629	3.226
63.0	2.635	2.421	2.469	2.159
66.0	1.755	1.596	1.620	1.417
69.0	0.9091	0.8091	0.8151	0.7060
72.0	0.3602	0.3788	0.3778	0.4005
75.0	0.2556	0.2823	0.2774	0.3041
78.0	0.1879	0.2145	0.2053	0.2319
81.0	0.1442	0.1728	0.1551	0.1859
84.0	0.1092	0.1357	0.1157	0.1466
87.0	0.0853	0.1094	0.0853	0.1181
90.0	0.0853	0.0896	0.0853	0.0962

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: