

LED Tracklight PURE Art-15W-840-24D



Light Output Ratio:	100.0%	
Luminaire Power:	14.93 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

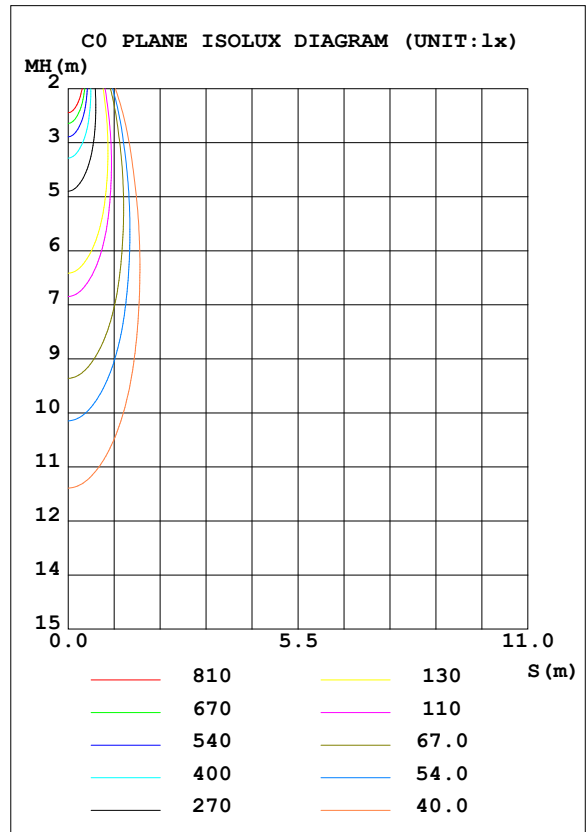
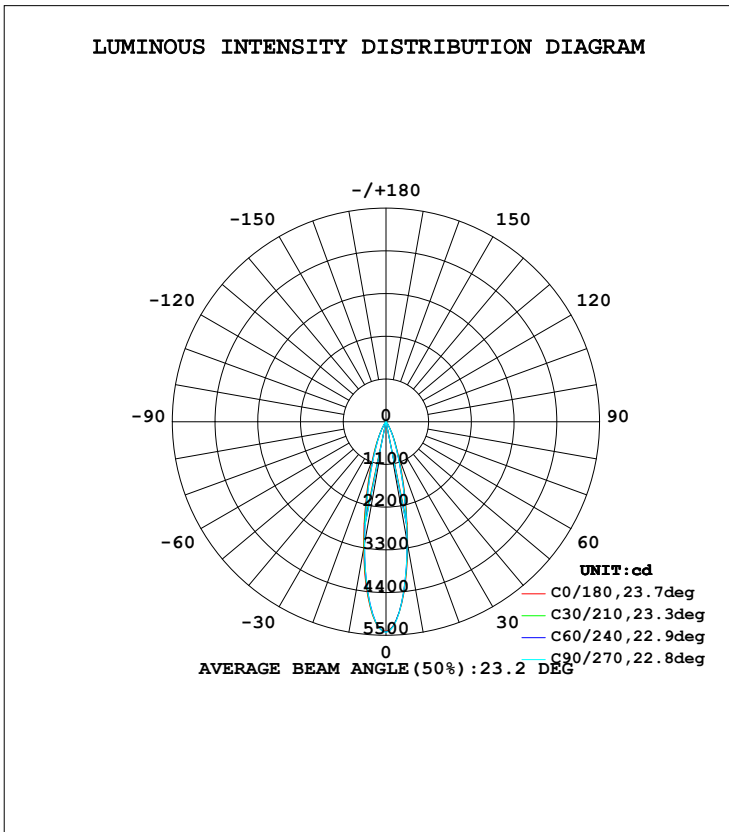
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.0724A P:14.93W PF:0.9446 Lamp Flux:1223.65x1 lm		
NAME: PURE Art-15W-840-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.95 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	5427	S/MH (C0/180)	0.41
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.39
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1223.7	η UP, DN (C0-180)	0.0, 49.6
NOMINAL FLUX (lm)	1223.65	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.4
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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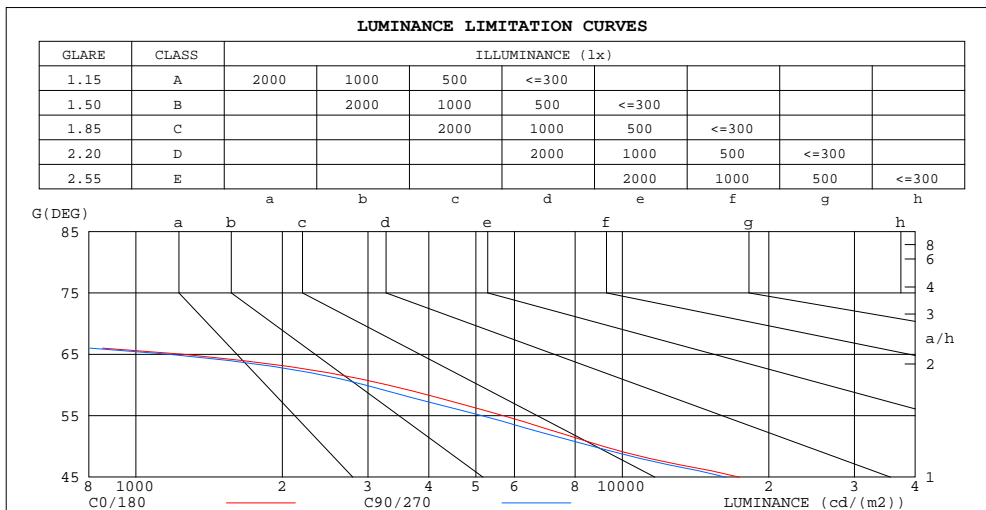
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	3213	3185	3128	3257	3319	3176	3194	3244	0- 10	400.9	400.9	32.8,32.8
20	949.3	891.2	853.6	948.6	1005	901.4	877.2	942.1	10- 20	503.1	904.0	73.9,73.9
30	219.0	209.8	203.9	215.0	208.9	202.0	217.3	232.7	20- 30	221.6	1126	92,92
40	53.95	52.47	49.98	50.51	51.12	49.56	53.96	56.18	30- 40	66.59	1192	97.4,97.4
50	13.96	14.54	13.28	14.42	14.12	13.37	14.69	15.13	40- 50	22.64	1215	99.3,99.3
60	3.911	3.686	3.512	3.554	3.590	3.089	3.793	4.045	50- 60	7.153	1222	99.9,99.9
70	0.3043	0.2774	0.2845	0.2621	0.2905	0.3107	0.2708	0.2954	60- 70	1.440	1223	100,100
80	0.1247	0.1005	0.1203	0.0983	0.1070	0.1225	0.0939	0.1116	70- 80	0.1950	1224	100,100
90	0.0481	0.0459	0.0503	0.0481	0.0350	0.0328	0.0372	0.0350	80- 90	0.0737	1224	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	370	370
80	302	292
75	320	296
70	375	350
65	1247	1166
60	3294	2958
55	5693	5147
50	9144	8700
45	17379	16308

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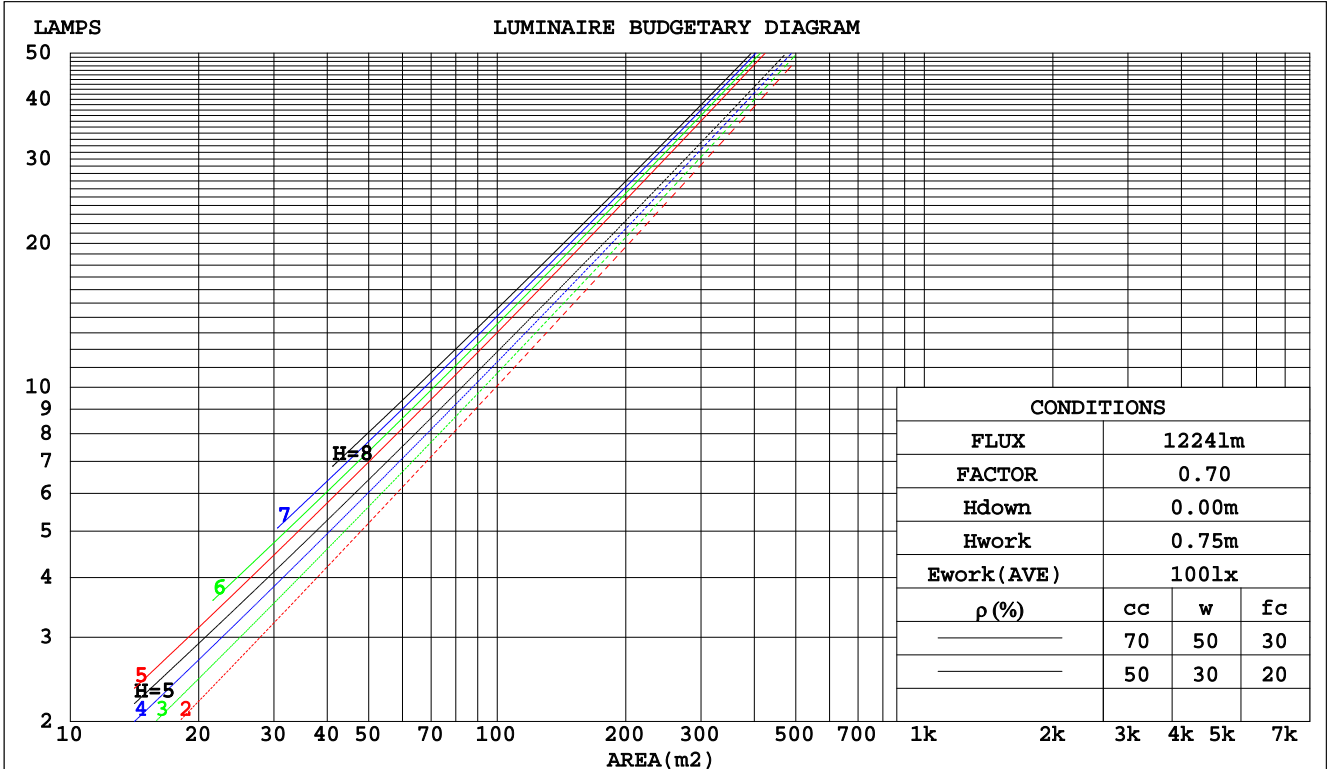
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2.0	1.07	1.04	1.01	1.05	1.03	1.00	1.02	.99	.98	.99	.98	.96	.97	.95	.94	.93
3.0	1.02	.98	.95	1.01	.97	.95	.98	.95	.93	.96	.94	.92	.94	.92	.90	.89
4.0	.98	.94	.91	.97	.93	.90	.95	.92	.89	.93	.90	.88	.91	.89	.87	.86
5.0	.94	.90	.86	.93	.89	.86	.91	.88	.85	.90	.87	.85	.88	.86	.84	.83
6.0	.90	.86	.83	.90	.86	.83	.88	.85	.82	.87	.84	.82	.86	.83	.81	.80
7.0	.87	.83	.80	.87	.82	.80	.86	.82	.79	.84	.81	.79	.83	.81	.78	.77
8.0	.84	.80	.77	.84	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.76	.75
9.0	.82	.77	.74	.81	.77	.74	.80	.77	.74	.80	.76	.74	.79	.76	.74	.73
10.0	.79	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.72	.77	.74	.71	.71



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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	.142	.081	.026	.135	.077	.025	.123	.070	.023	.111	.064	.021	.101	.059	.019	
2.0	.132	.073	.022	.127	.070	.022	.117	.065	.020	.107	.060	.019	.098	.056	.018	
3.0	.124	.066	.020	.119	.064	.019	.111	.060	.018	.103	.056	.017	.096	.053	.016	
4.0	.117	.061	.018	.113	.059	.017	.105	.056	.017	.099	.053	.016	.092	.050	.015	
5.0	.110	.056	.016	.107	.055	.016	.101	.052	.015	.095	.050	.015	.089	.048	.014	
6.0	.104	.052	.015	.102	.051	.015	.096	.049	.014	.091	.047	.014	.086	.046	.014	
7.0	.099	.049	.014	.097	.048	.014	.092	.047	.013	.088	.045	.013	.084	.043	.013	
8.0	.095	.046	.013	.092	.046	.013	.088	.044	.013	.085	.043	.012	.081	.042	.012	
9.0	.090	.044	.012	.089	.043	.012	.085	.042	.012	.082	.041	.012	.078	.040	.011	
10.0	.087	.042	.012	.085	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	

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	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.117	.129	.114	.101	.089	.079	.071	.051	.046	.041	.016	.015	.014	
3.0	.136	.113	.095	.117	.098	.082	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.107	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.114	.086	.065	.098	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.105	.076	.055	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.098	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.091	.061	.040	.079	.053	.035	.054	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.056	.035	.074	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.031	.070	.044	.027	.048	.031	.019	.028	.018	.011	.009	.006	.004	

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UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0724A P:14.93W PF:0.9446 Lamp Flux:1223.65x1 lm		
NAME: PURE Art-15W-840-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ55mm*H150mm	
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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	13.5	14.2	13.7	14.4	14.5	13.3	14.0	13.5	14.1	14.3
3H	13.4	14.0	13.6	14.2	14.4	13.1	13.8	13.4	14.0	14.2
4H	13.3	13.9	13.5	14.1	14.3	13.1	13.7	13.3	13.9	14.1
6H	13.2	13.8	13.5	14.0	14.2	13.0	13.5	13.3	13.8	14.0
8H	13.2	13.7	13.5	14.0	14.2	12.9	13.5	13.2	13.7	14.0
12H	13.1	13.7	13.4	13.9	14.2	12.9	13.4	13.2	13.7	13.9
4H 2H	13.3	13.9	13.6	14.1	14.4	13.1	13.7	13.4	13.9	14.1
3H	13.2	13.7	13.5	13.9	14.2	12.9	13.5	13.2	13.7	14.0
4H	13.1	13.5	13.4	13.8	14.1	12.8	13.3	13.2	13.6	13.9
6H	13.0	13.4	13.3	13.7	14.1	12.7	13.2	13.1	13.5	13.8
8H	12.9	13.3	13.3	13.7	14.0	12.7	13.1	13.1	13.4	13.8
12H	12.9	13.2	13.3	13.6	14.0	12.6	13.0	13.0	13.4	13.7
8H 4H	12.9	13.3	13.3	13.7	14.0	12.7	13.1	13.1	13.4	13.8
6H	12.8	13.1	13.2	13.5	13.9	12.6	12.9	13.0	13.3	13.7
8H	12.7	13.0	13.2	13.4	13.9	12.5	12.8	13.0	13.2	13.7
12H	12.7	12.9	13.1	13.4	13.8	12.4	12.7	12.9	13.1	13.6
12H 4H	12.9	13.2	13.3	13.6	14.0	12.6	13.0	13.0	13.4	13.7
6H	12.7	13.0	13.2	13.4	13.9	12.5	12.8	13.0	13.2	13.7
8H	12.7	12.9	13.1	13.4	13.8	12.4	12.7	12.9	13.1	13.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / - 7.8					+ 2.7 / - 7.9				
1.5H	+ 4.4 / - 5.3					+ 4.2 / - 5.1				
2.0H	+ 5.2 / - 8.1					+ 5.1 / - 7.6				

CIE Pub.117 Corrected 1224 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

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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	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

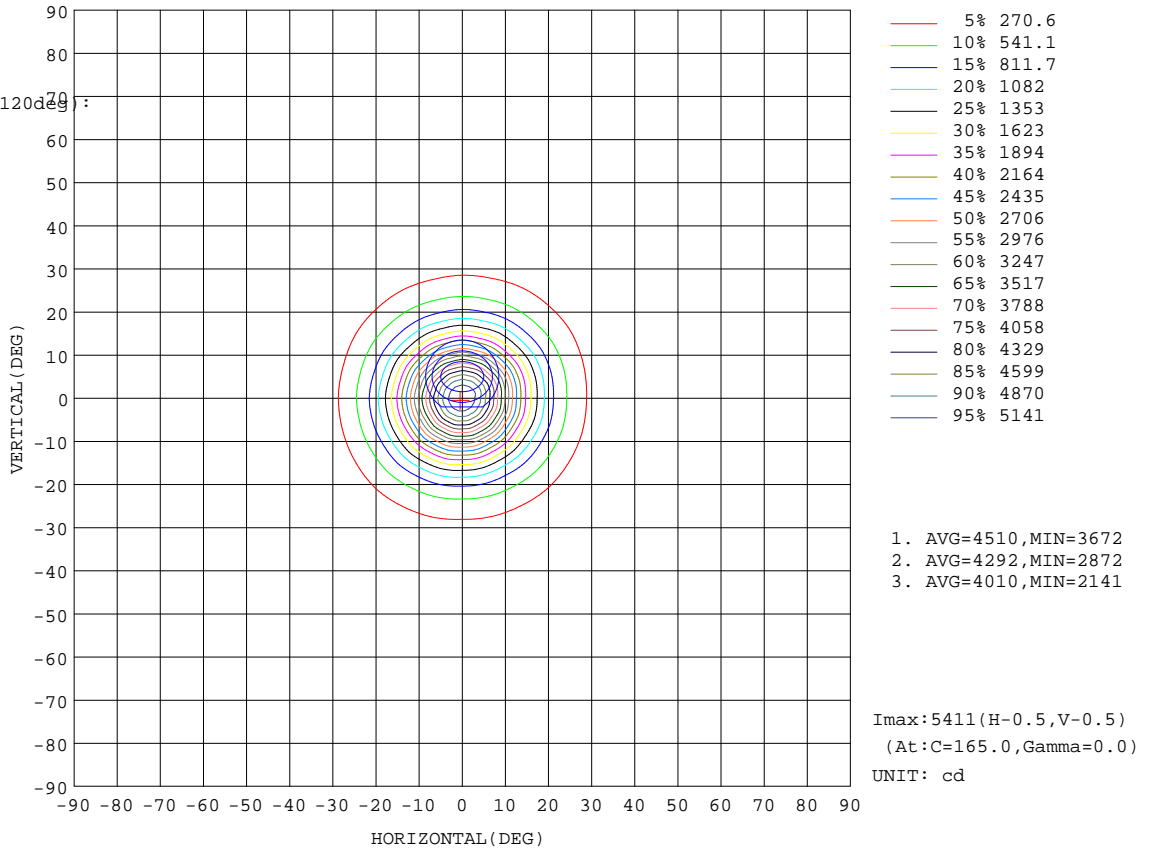
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Conical surface Flux(90deg):

1206.6 lm
%lum = 98.6%
%lamp = 98.6%

Conical surface Flux(120deg):

1221.9 lm
%lum = 99.9%
%lamp = 99.9%



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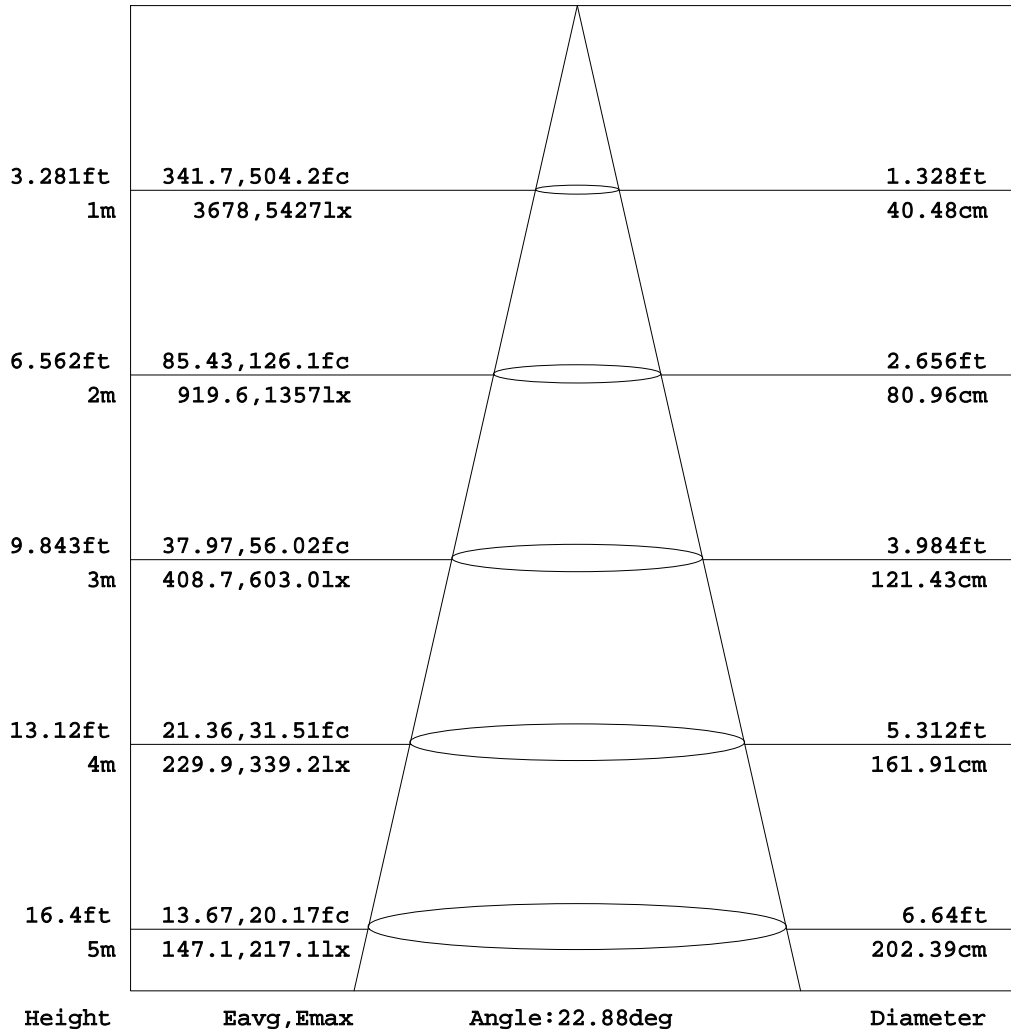
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AAI Figure

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Flux out:522.1 lm



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

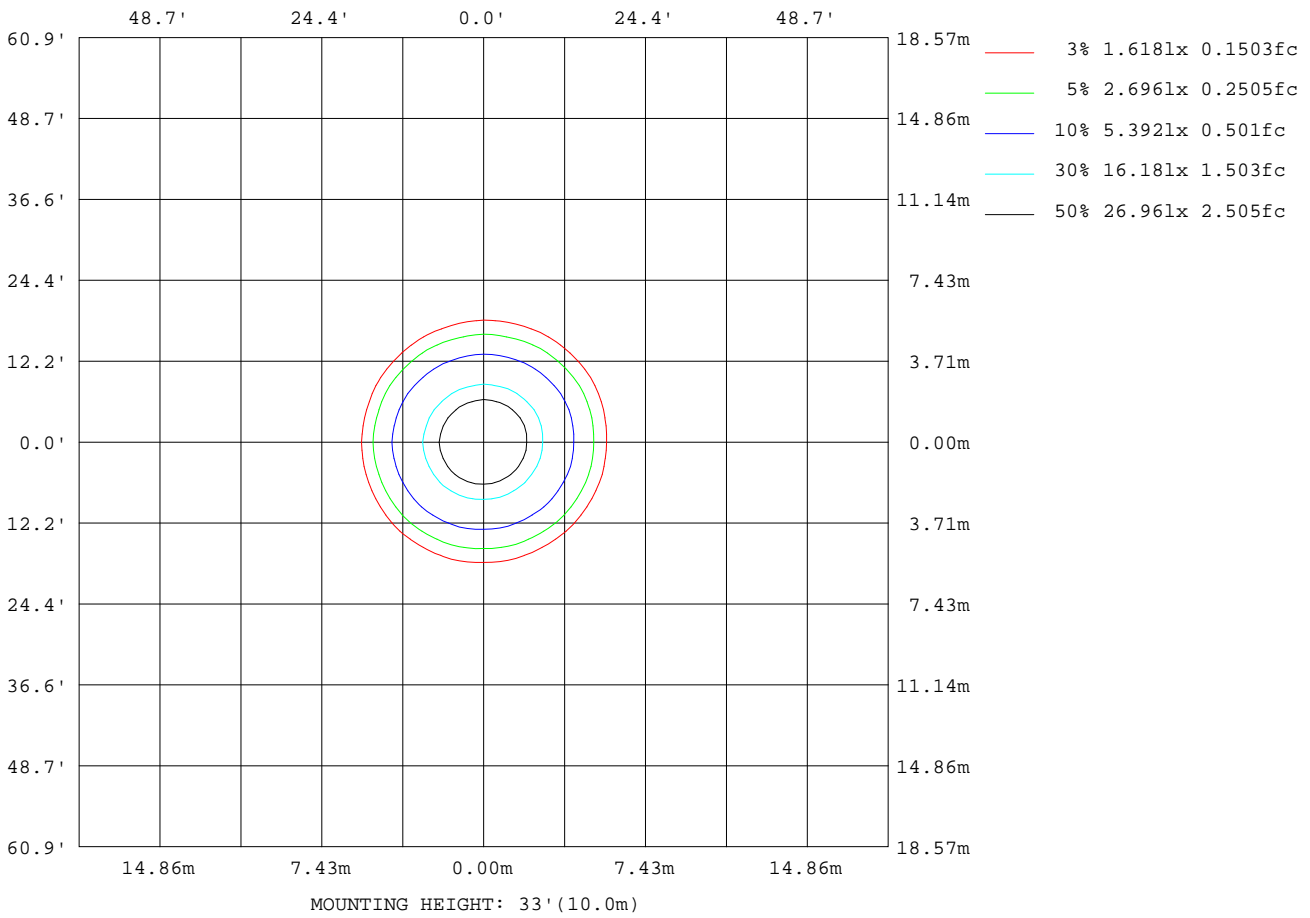
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ISOLUX DIAGRAM

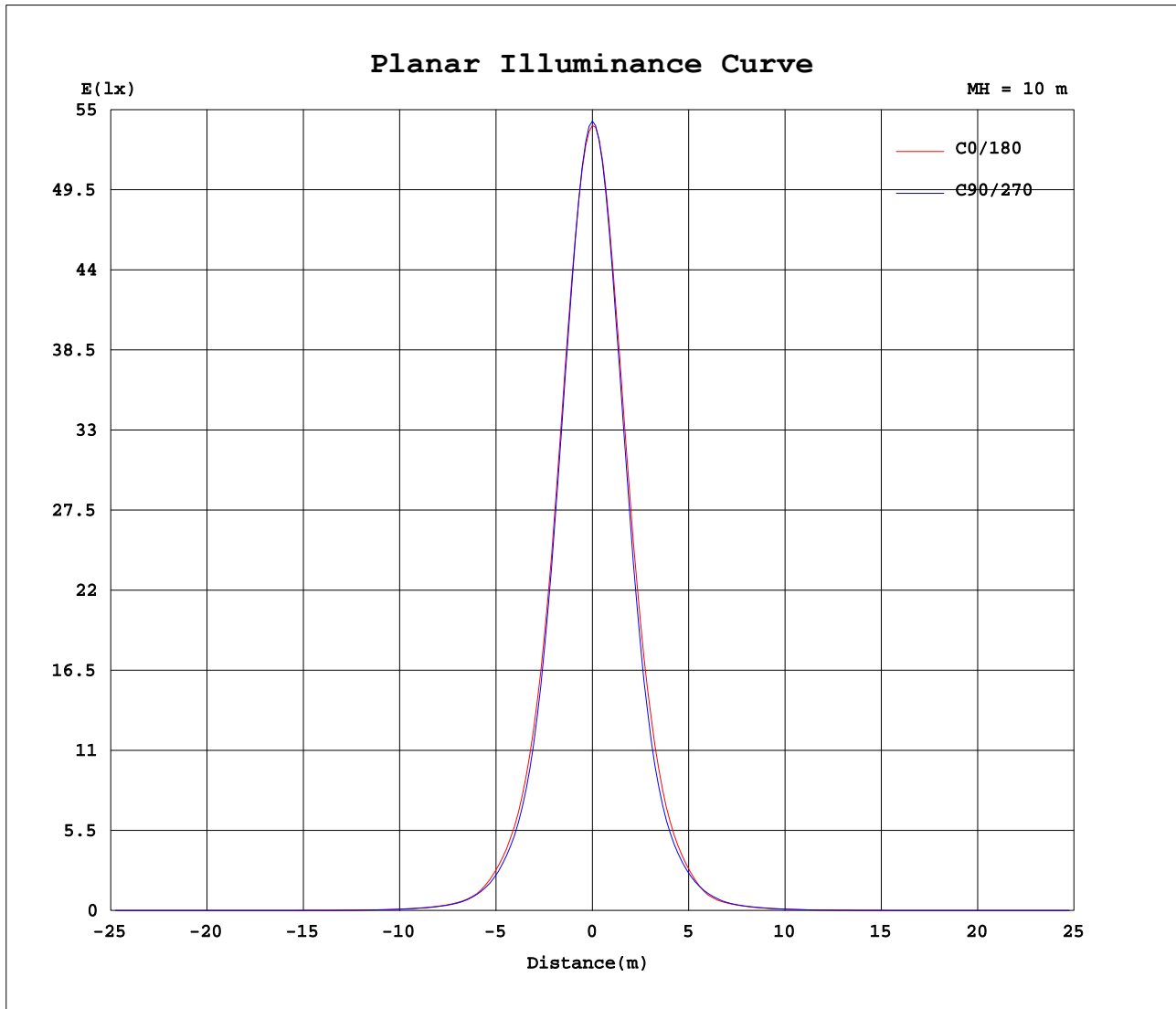
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Planar Illuminance Curve



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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	5392	5402	5407	5413	5416	5419	5422	5423	5425	5425
3.0	5111	5135	5113	5135	5114	5140	5126	5157	5147	5174
6.0	4430	4451	4405	4426	4385	4419	4387	4442	4429	4478
9.0	3533	3560	3492	3511	3451	3489	3453	3518	3502	3576
12.0	2595	2612	2548	2557	2503	2537	2507	2573	2575	2646
15.0	1821	1824	1758	1756	1705	1730	1710	1774	1788	1858
18.0	1244	1239	1185	1172	1129	1141	1129	1177	1198	1258
21.0	828.5	827.0	791.1	781.4	748.8	752.3	743.4	772.2	784.8	826.8
24.0	556.6	557.1	537.9	529.4	505.0	503.3	495.9	513.2	521.6	547.4
27.0	365.3	365.4	351.6	344.9	327.1	326.4	319.8	332.6	337.8	355.2
30.0	219.0	217.5	210.1	209.8	200.3	204.1	203.9	209.7	207.6	215.0
33.0	133.0	134.4	129.6	131.1	125.6	130.3	127.1	131.0	125.8	129.1
36.0	88.54	87.51	85.18	85.05	83.09	83.11	81.68	82.59	81.85	81.86
39.0	61.11	60.82	59.16	59.20	57.51	57.42	56.34	57.14	56.45	57.07
42.0	42.14	42.18	41.15	41.08	40.13	40.22	39.24	39.51	38.81	39.48
45.0	29.18	29.60	28.98	29.08	28.28	28.18	27.38	27.52	27.31	27.86
48.0	18.11	18.72	18.56	18.65	18.14	17.94	17.33	17.75	17.86	18.38
51.0	12.42	12.99	13.05	12.95	12.57	12.24	11.66	12.04	12.36	12.81
54.0	8.763	9.229	9.088	9.049	8.766	8.552	7.977	8.064	8.322	8.755
57.0	5.965	6.255	5.929	5.870	5.806	5.777	5.300	5.292	5.436	5.730
60.0	3.911	4.020	3.706	3.686	3.701	3.741	3.512	3.433	3.476	3.554
63.0	2.230	2.291	2.107	2.108	2.155	2.204	2.072	2.009	2.030	2.053
66.0	0.8248	0.9395	0.8221	0.8457	0.8311	0.9111	0.7763	0.7521	0.8111	0.8565
69.0	0.3393	0.3189	0.3349	0.3145	0.3196	0.3036	0.3130	0.2949	0.3064	0.2927
72.0	0.2561	0.2316	0.2518	0.2250	0.2408	0.2163	0.2364	0.2119	0.2321	0.2163
75.0	0.1970	0.1704	0.1926	0.1682	0.1861	0.1660	0.1817	0.1573	0.1795	0.1660
78.0	0.1489	0.1310	0.1510	0.1289	0.1466	0.1202	0.1423	0.1180	0.1422	0.1202
81.0	0.1116	0.0961	0.1160	0.0939	0.1094	0.0874	0.1116	0.0852	0.1116	0.0896
84.0	0.0811	0.0634	0.0854	0.0656	0.0854	0.0634	0.0810	0.0634	0.0832	0.0634
87.0	0.0657	0.0459	0.0657	0.0459	0.0678	0.0481	0.0678	0.0481	0.0657	0.0481
90.0	0.0481	0.0459	0.0481	0.0459	0.0481	0.0481	0.0503	0.0481	0.0503	0.0481
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5427	5427	5392	5402	5407	5413	5416	5419	5422	5423
3.0	5154	5176	5177	5154	5168	5137	5155	5133	5157	5142
6.0	4456	4490	4514	4460	4473	4418	4443	4406	4451	4432
9.0	3547	3595	3629	3561	3570	3496	3515	3464	3515	3490
12.0	2632	2678	2716	2650	2645	2567	2572	2519	2561	2546
15.0	1857	1900	1932	1866	1857	1777	1774	1719	1754	1751
18.0	1258	1291	1321	1269	1250	1189	1180	1141	1160	1163
21.0	828.8	854.3	875.1	841.1	828.9	786.8	777.7	750.3	763.4	764.8
24.0	551.6	566.2	581.3	561.5	557.4	531.3	522.5	502.8	512.6	511.1
27.0	354.0	360.9	371.7	357.3	359.0	342.2	340.1	328.6	337.8	338.2
30.0	207.6	205.8	208.9	199.0	206.2	202.0	206.9	205.9	217.3	218.2
33.0	123.0	120.6	121.4	119.3	126.3	122.4	127.5	128.4	139.6	138.6
36.0	79.87	80.29	82.43	81.16	81.74	80.79	82.19	83.65	88.24	89.71
39.0	56.13	56.36	57.82	56.79	57.01	56.11	57.14	57.70	60.82	61.90
42.0	38.97	38.94	39.69	38.71	39.14	38.68	39.87	40.43	42.43	42.75
45.0	27.40	27.30	27.83	27.42	27.69	27.38	28.27	28.53	29.87	29.85
48.0	18.00	17.73	18.15	17.82	17.87	17.25	17.85	18.06	19.01	19.19
51.0	12.52	12.24	12.55	12.56	12.34	11.83	12.14	12.44	13.02	13.31
54.0	8.524	8.352	8.745	8.819	8.570	8.113	8.488	8.662	8.959	9.066
57.0	5.539	5.392	5.715	5.834	5.494	5.102	5.551	5.779	5.910	5.930
60.0	3.487	3.408	3.590	3.623	3.365	3.089	3.481	3.699	3.793	3.822
63.0	1.952	1.894	2.043	2.020	1.895	1.733	2.028	2.152	2.231	2.211
66.0	0.7189	0.7087	0.8257	0.8185	0.8018	0.6892	0.8408	0.8670	0.9015	0.8304
69.0	0.3195	0.3102	0.3189	0.3457	0.3277	0.3414	0.3166	0.3260	0.3035	0.3239
72.0	0.2430	0.2316	0.2359	0.2626	0.2424	0.2561	0.2272	0.2429	0.2184	0.2364
75.0	0.1904	0.1748	0.1791	0.2035	0.1791	0.1969	0.1660	0.1860	0.1659	0.1816
78.0	0.1467	0.1333	0.1289	0.1532	0.1288	0.1466	0.1244	0.1379	0.1136	0.1378
81.0	0.1138	0.0939	0.0960	0.1116	0.0874	0.1073	0.0830	0.1007	0.0830	0.1007
84.0	0.0854	0.0655	0.0633	0.0810	0.0589	0.0788	0.0589	0.0744	0.0589	0.0722
87.0	0.0656	0.0481	0.0372	0.0569	0.0371	0.0526	0.0350	0.0547	0.0372	0.0526
90.0	0.0481	0.0481	0.0350	0.0328	0.0328	0.0328	0.0328	0.0350	0.0372	0.0350
G/C	300.0	315.0	330.0	345.0						
0.0	5425	5425	5427	5427						
3.0	5170	5163	5190	5178						
6.0	4491	4481	4541	4513						
9.0	3569	3569	3646	3619						
12.0	2618	2619	2690	2672						
15.0	1821	1832	1894	1876						
18.0	1244	1244	1292	1283						
21.0	804.3	819.4	858.6	853.9						

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	536.9	548.6	574.3	575.0
27.0	358.0	366.8	383.2	378.0
30.0	229.0	232.7	240.0	230.7
33.0	144.2	143.2	147.3	141.1
36.0	93.44	93.16	94.73	91.90
39.0	63.89	64.32	64.91	63.76
42.0	43.69	43.56	44.54	43.46
45.0	30.64	30.35	30.74	29.93
48.0	19.87	19.41	19.37	18.62
51.0	13.92	13.46	13.12	12.62
54.0	9.667	9.330	9.071	8.789
57.0	6.390	6.274	6.102	5.939
60.0	4.090	4.045	3.999	3.890
63.0	2.392	2.399	2.348	2.213
66.0	1.032	1.003	0.9213	0.7712
69.0	0.3100	0.3282	0.3145	0.3370
72.0	0.2206	0.2451	0.2315	0.2539
75.0	0.1638	0.1860	0.1682	0.1926
78.0	0.1136	0.1379	0.1201	0.1466
81.0	0.0787	0.1028	0.0851	0.1116
84.0	0.0567	0.0744	0.0611	0.0788
87.0	0.0371	0.0569	0.0371	0.0570
90.0	0.0328	0.0350	0.0328	0.0350

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: