

LED Tracklight PURE Art-15W-940-18D



Light Output Ratio:	100.0%	
Luminaire Power:	15.25 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

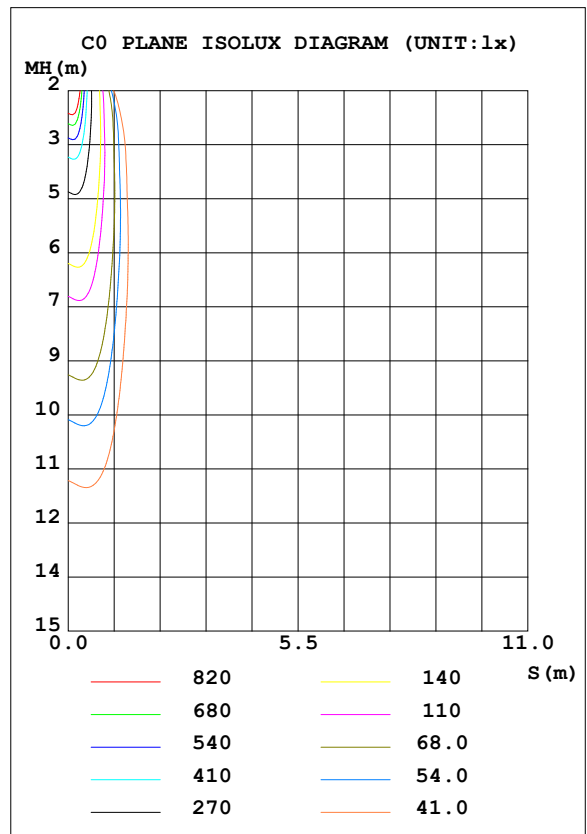
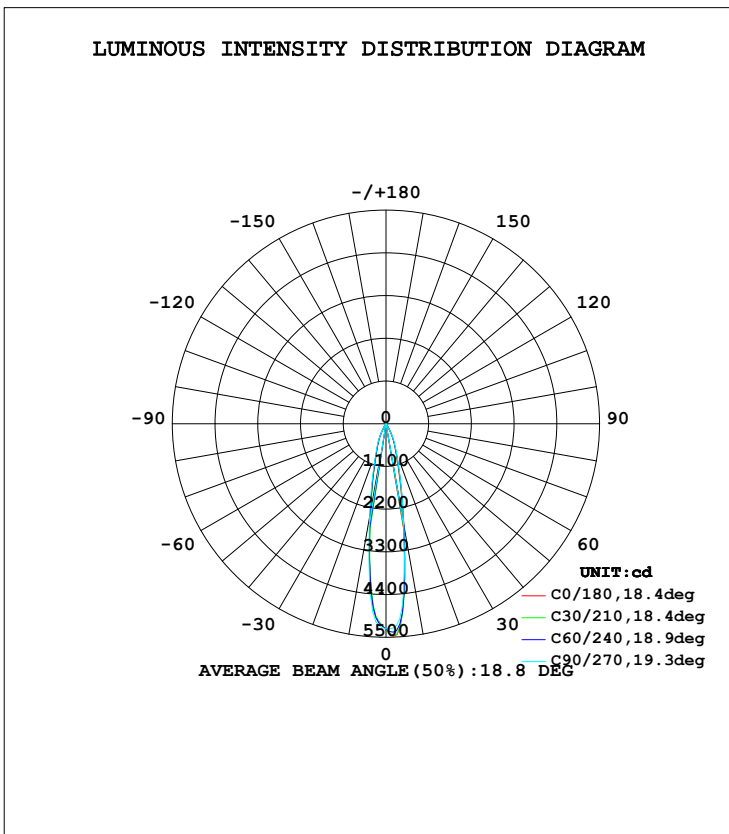
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.0722A P:15.25W PF:0.9572 Lamp Flux:983.457x1 lm		
NAME: PURE Art-15W-940-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 64.48 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	5476	S/MH (C0/180)	0.31
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.32
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	983.46	η UP, DN (C0-180)	0.0, 51.4
NOMINAL FLUX (lm)	983.457	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.6
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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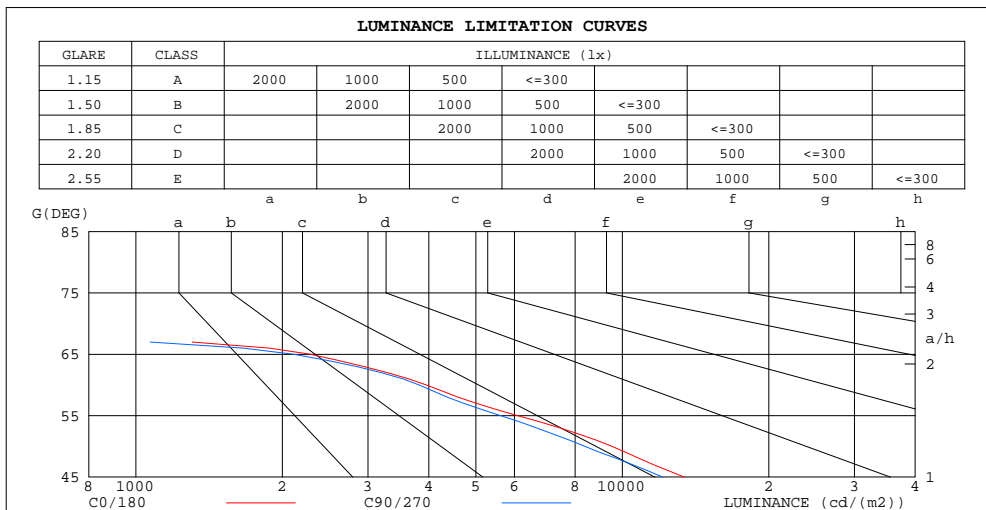
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\#lum, lamp$
10	2574	2699	2627	2488	2343	2275	2440	2551	0- 10	363.9	363.9	37,37
20	721.7	752.1	783.9	710.4	672.2	655.9	720.2	725.7	10- 20	368.9	732.9	74.5,74.5
30	173.3	178.4	158.5	141.9	152.2	132.9	145.9	137.9	20- 30	187.7	920.6	93.6,93.6
40	32.80	33.28	30.43	28.66	29.56	29.16	30.10	30.08	30- 40	37.63	958.2	97.4,97.4
50	14.54	13.72	12.80	12.42	11.65	11.11	12.79	12.78	40- 50	15.95	974.1	99.1,99.1
60	4.693	4.784	4.535	4.220	3.772	3.903	4.042	4.665	50- 60	6.878	981.0	99.8,99.8
70	0.4552	0.4151	0.4137	0.3845	0.3844	0.4245	0.4805	0.5208	60- 70	2.060	983.1	100,100
80	0.1686	0.1310	0.1467	0.1288	0.1288	0.1554	0.1572	0.1816	70- 80	0.2880	983.4	100,100
90	0.0372	0.0350	0.0372	0.0372	0.0241	0.0241	0.0262	0.0241	80- 90	0.0848	983.5	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		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	434	392
80	409	356
75	463	403
70	561	509
65	2282	2108
60	3953	3820
55	6092	5623
50	9525	8384
45	13405	12104

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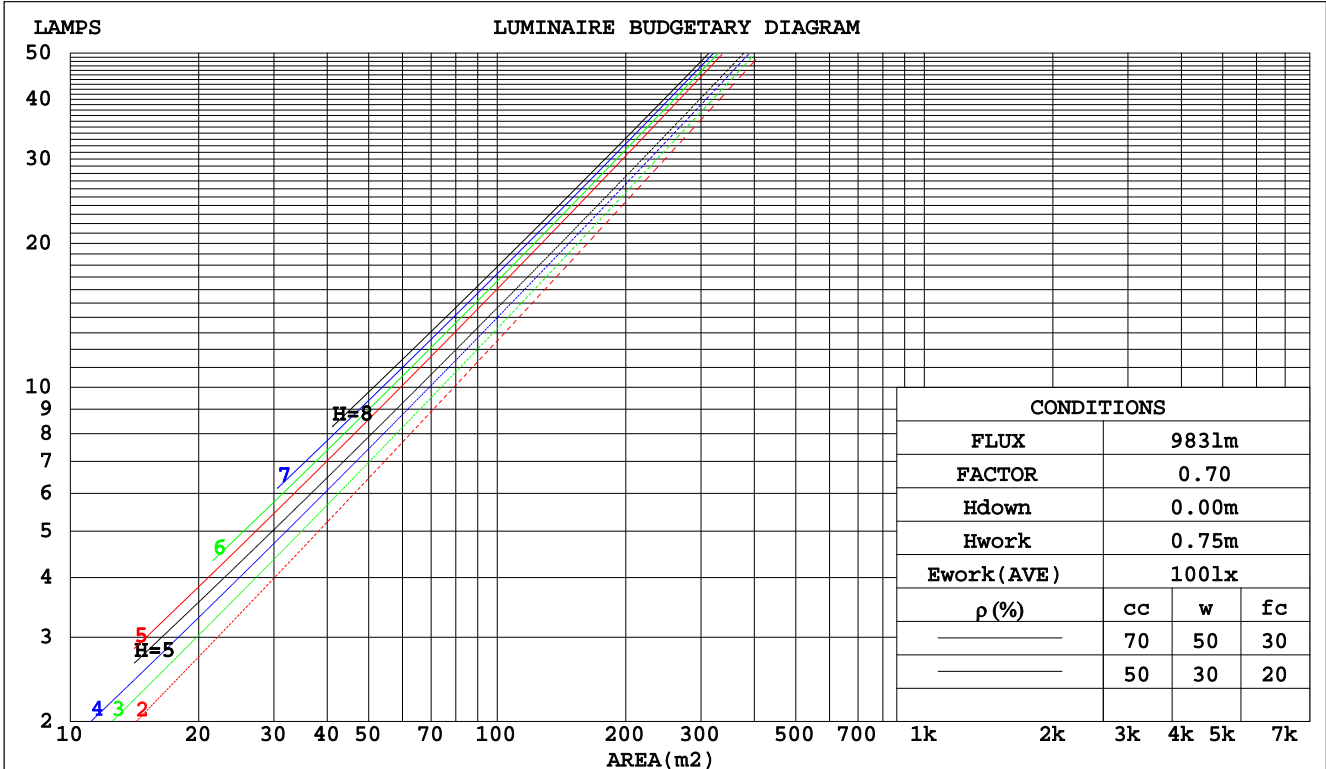
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw																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	.00	.99	.98	.96
2.0	1.07	1.04	1.02	1.06	1.03	1.01	1.03	1.00	.98	.00	.98	.96	.97	.96	.94	.93
3.0	1.03	.99	.96	1.01	.98	.95	.99	.96	.94	.97	.94	.92	.94	.93	.91	.90
4.0	.98	.94	.91	.97	.94	.91	.95	.92	.90	.94	.91	.89	.92	.90	.88	.87
5.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.91	.88	.86	.89	.87	.85	.84
6.0	.91	.87	.84	.91	.87	.84	.89	.86	.83	.88	.85	.83	.87	.84	.82	.81
7.0	.88	.84	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.85	.82	.80	.79
8.0	.86	.81	.78	.85	.81	.78	.84	.81	.78	.83	.80	.78	.82	.80	.77	.76
9.0	.83	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.74
10.0	.81	.77	.74	.80	.76	.74	.80	.76	.74	.79	.76	.73	.78	.75	.73	.72



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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	.139	.079	.025	.133	.076	.024	.120	.069	.022	.109	.063	.020	.098	.057	.018	
2.0	.129	.071	.022	.124	.068	.021	.114	.063	.020	.104	.059	.018	.096	.054	.017	
3.0	.121	.064	.019	.116	.062	.019	.108	.058	.018	.100	.055	.017	.093	.051	.016	
4.0	.114	.059	.017	.110	.057	.017	.102	.054	.016	.096	.051	.016	.090	.049	.015	
5.0	.107	.055	.016	.104	.053	.016	.098	.051	.015	.092	.048	.014	.086	.046	.014	
6.0	.101	.051	.015	.098	.050	.014	.093	.048	.014	.088	.046	.013	.084	.044	.013	
7.0	.096	.048	.013	.094	.047	.013	.089	.045	.013	.085	.043	.013	.081	.042	.012	
8.0	.092	.045	.013	.089	.044	.012	.085	.043	.012	.082	.041	.012	.078	.040	.012	
9.0	.087	.042	.012	.086	.042	.012	.082	.041	.011	.079	.039	.011	.075	.038	.011	
10.0	.084	.040	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.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	.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	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.097	.068	.047	.083	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.090	.061	.041	.078	.053	.035	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.085	.055	.035	.073	.048	.031	.050	.034	.022	.029	.020	.013	.010	.007	.004	
10.0	.080	.050	.031	.069	.044	.027	.048	.031	.019	.028	.018	.011	.009	.006	.004	

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UGR(Unified Glare Rating) Table

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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	11.7	12.4	12.0	12.6	12.7	11.4	12.0	11.6	12.2	12.3
3H	11.6	12.3	11.9	12.5	12.6	11.3	11.9	11.5	12.1	12.3
4H	11.6	12.2	11.8	12.4	12.6	11.2	11.8	11.4	12.0	12.2
6H	11.5	12.0	11.8	12.3	12.5	11.1	11.7	11.4	11.9	12.1
8H	11.4	12.0	11.7	12.2	12.5	11.1	11.6	11.4	11.8	12.1
12H	11.4	11.9	11.7	12.2	12.4	11.0	11.5	11.3	11.8	12.1
4H 2H	11.6	12.2	11.9	12.4	12.7	11.3	11.9	11.5	12.1	12.3
3H	11.5	12.0	11.8	12.3	12.6	11.2	11.7	11.5	11.9	12.2
4H	11.4	11.9	11.8	12.2	12.5	11.1	11.5	11.4	11.8	12.1
6H	11.3	11.8	11.7	12.1	12.4	11.0	11.4	11.3	11.7	12.1
8H	11.3	11.7	11.7	12.0	12.4	10.9	11.3	11.3	11.7	12.0
12H	11.2	11.6	11.6	12.0	12.3	10.9	11.2	11.3	11.6	12.0
8H 4H	11.3	11.7	11.7	12.0	12.4	10.9	11.3	11.3	11.7	12.0
6H	11.2	11.5	11.6	11.9	12.3	10.8	11.1	11.2	11.5	11.9
8H	11.1	11.4	11.6	11.8	12.3	10.8	11.0	11.2	11.5	11.9
12H	11.1	11.3	11.5	11.7	12.2	10.7	10.9	11.2	11.4	11.8
12H 4H	11.2	11.6	11.6	12.0	12.3	10.9	11.2	11.3	11.6	12.0
6H	11.1	11.4	11.6	11.8	12.3	10.7	11.0	11.2	11.5	11.9
8H	11.1	11.3	11.5	11.7	12.2	10.7	10.9	11.2	11.4	11.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 4.0					+ 1.8 / - 4.0				
1.5H	+ 2.4 / - 2.9					+ 2.3 / - 2.6				
2.0H	+ 3.8 / - 4.7					+ 3.5 / - 4.1				

CIE Pub.117 Corrected 983.5 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.1)

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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	109	106	103	108	105	102	105	103	100	95
2.50	111	107	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

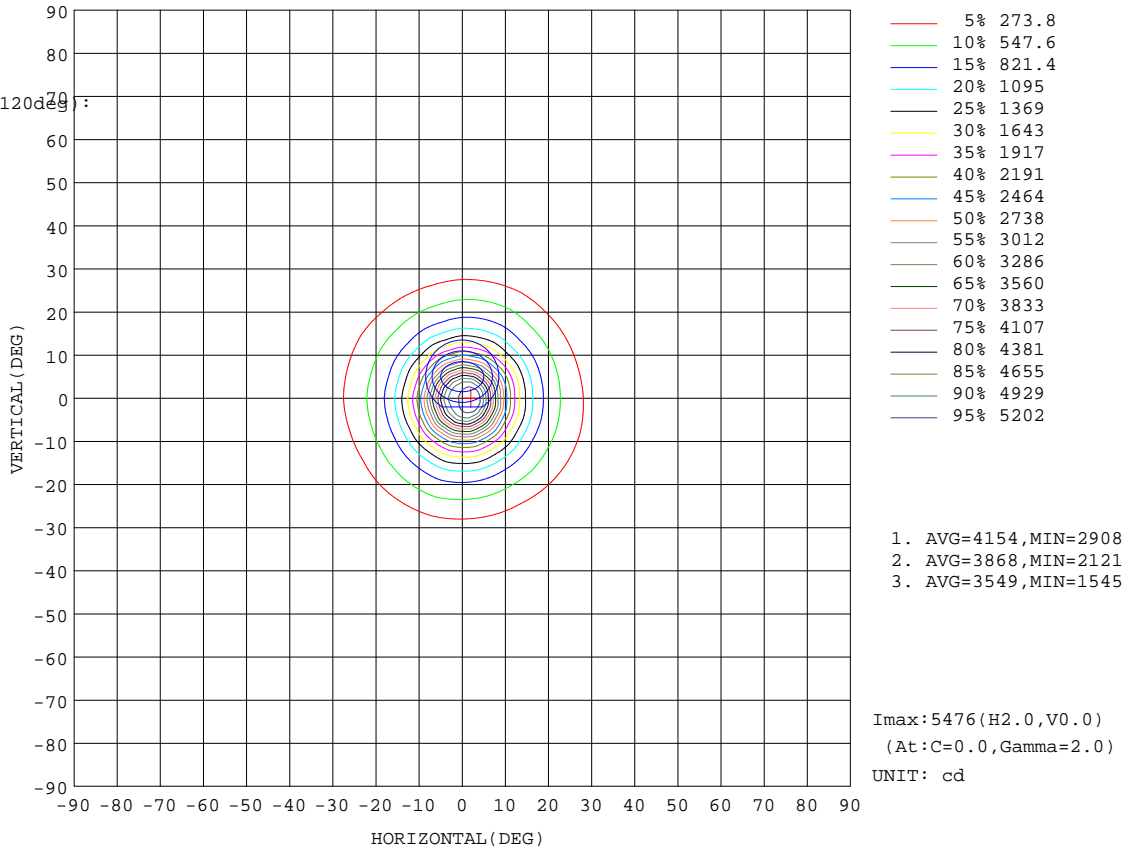
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Conical surface Flux(90deg):

967.57 lm
%lum = 98.4%
%lamp = 98.4%

Conical surface Flux(120deg):

981.02 lm
%lum = 99.8%
%lamp = 99.8%



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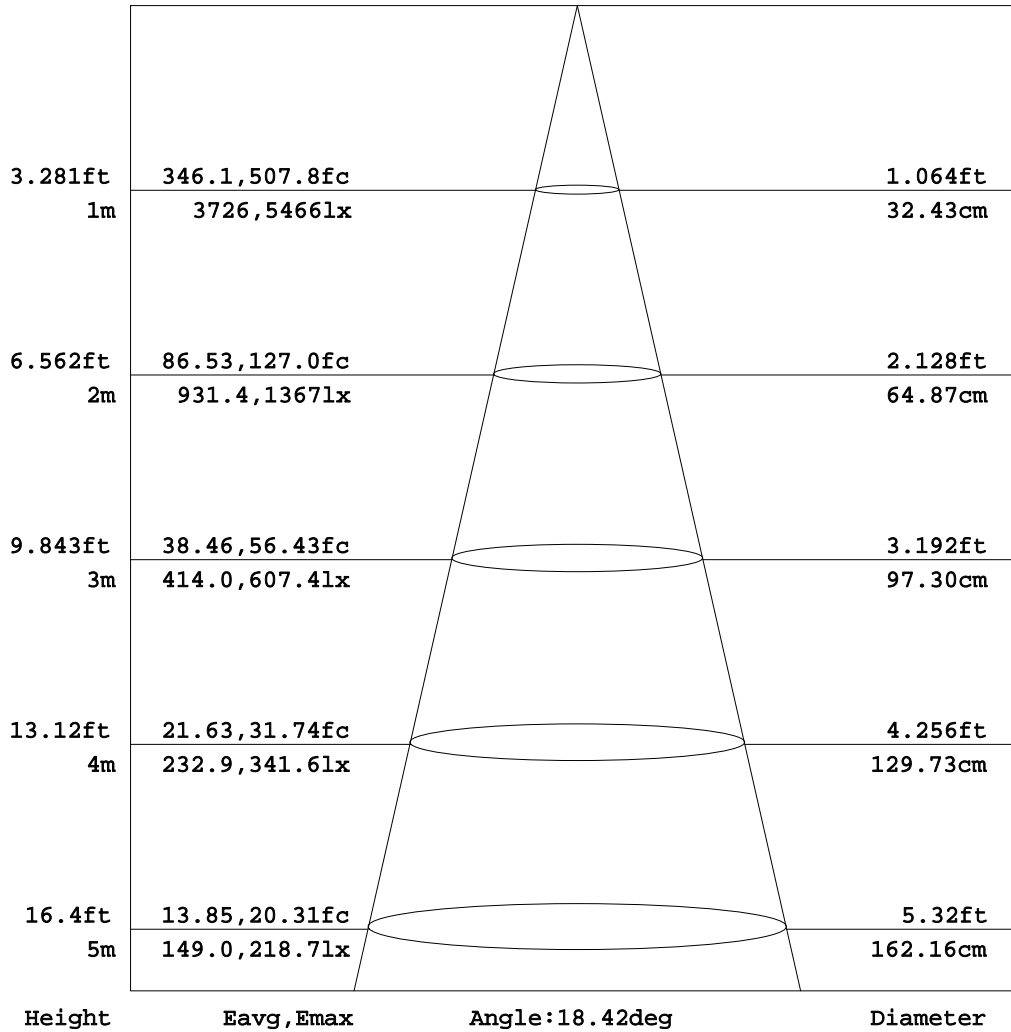
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AAI Figure

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Flux out:363.9 lm



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

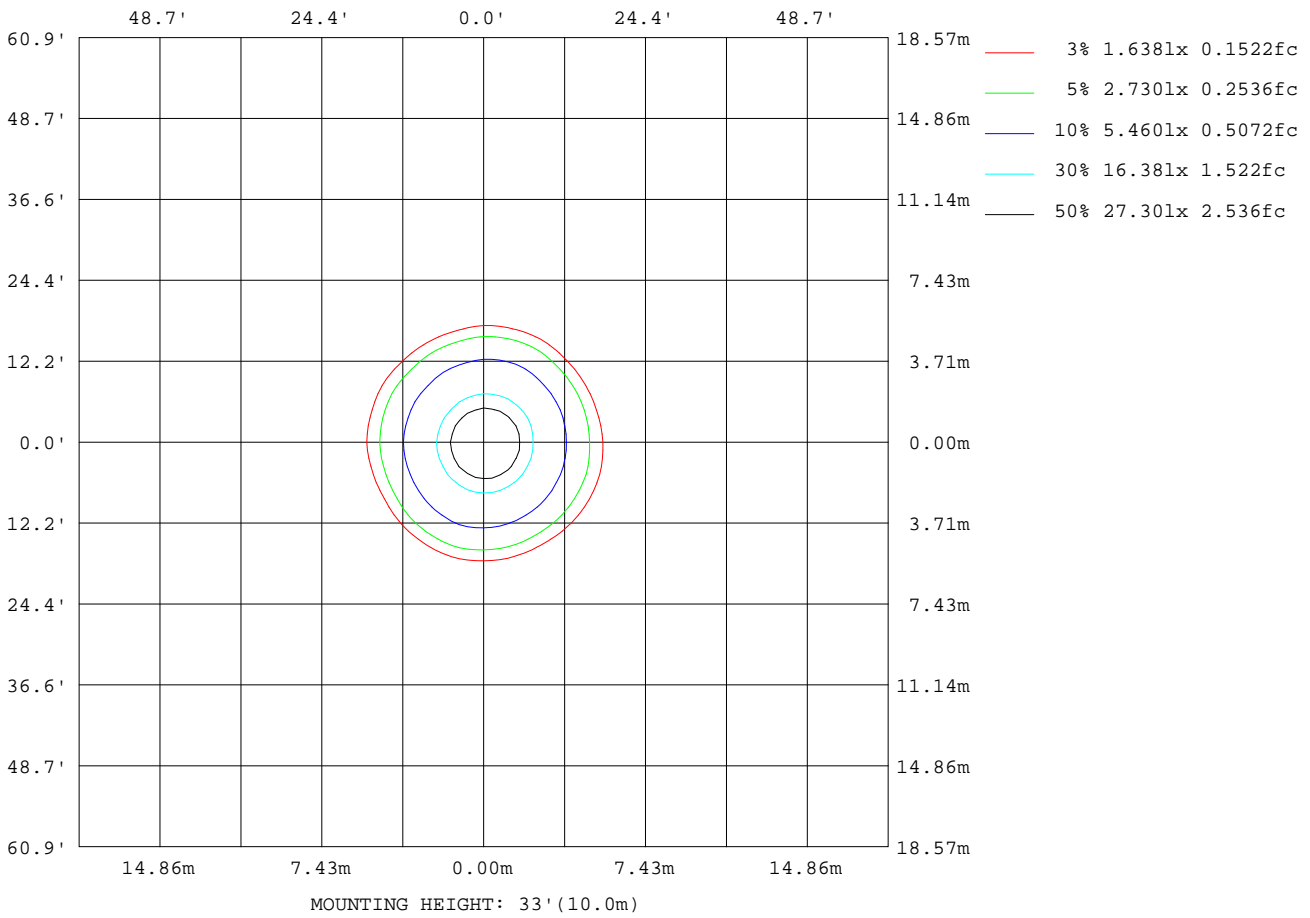
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ISOLUX DIAGRAM

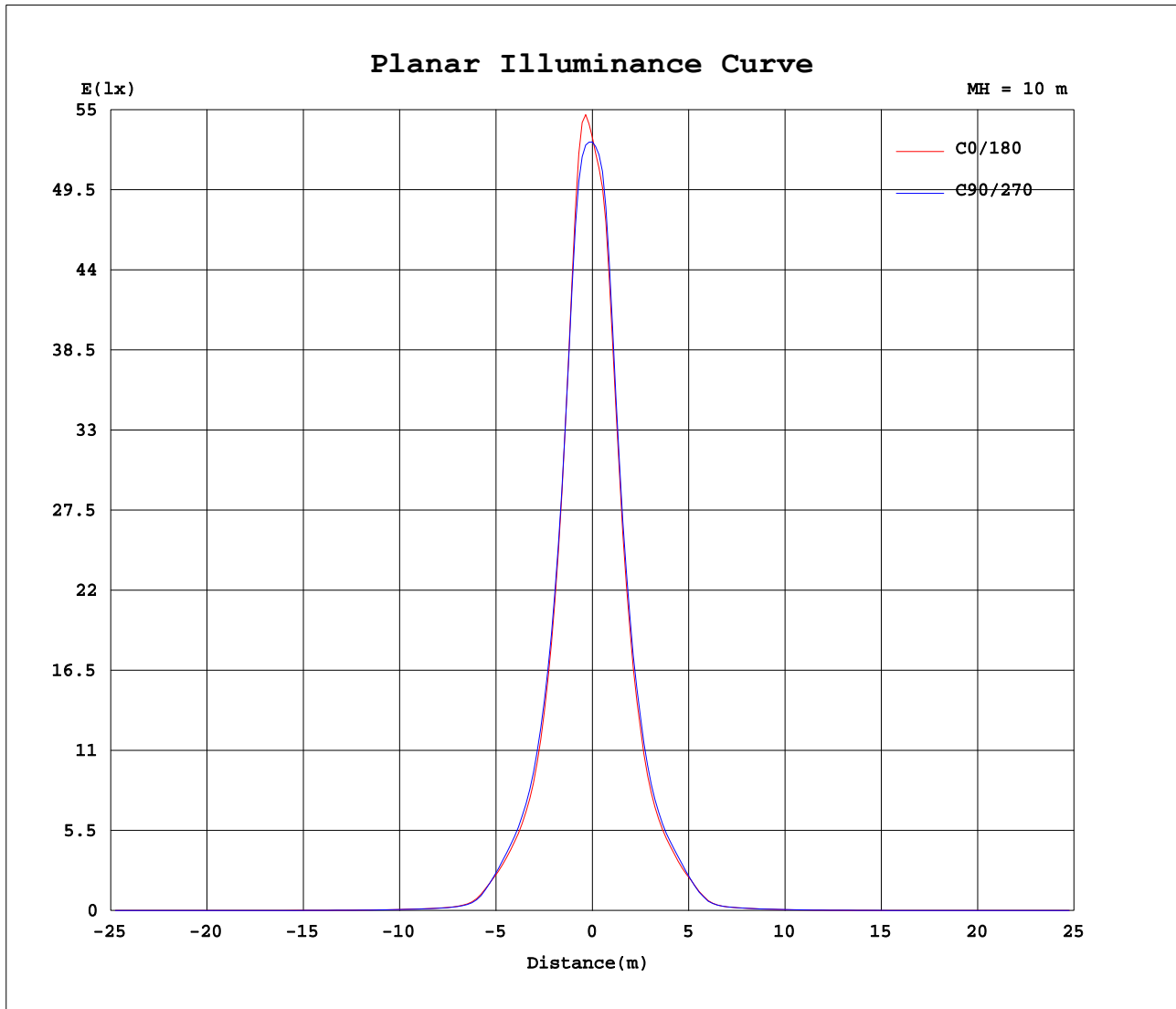
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Planar Illuminance Curve



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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	5309	5290	5296	5280	5288	5277	5279	5274	5271	5272
3.0	5435	5464	5428	5399	5328	5272	5199	5147	5057	5015
6.0	4404	4499	4457	4519	4446	4475	4348	4315	4165	4124
9.0	2963	3042	3014	3103	3048	3081	2994	2983	2868	2858
12.0	1959	2000	1981	2062	2034	2069	2028	2019	1933	1896
15.0	1304	1348	1331	1394	1374	1417	1392	1401	1316	1273
18.0	893.7	912.5	912.0	942.9	948.5	969.3	968.0	974.0	920.5	882.5
21.0	651.7	661.4	662.7	676.8	683.4	698.2	704.6	715.6	674.2	642.6
24.0	477.4	487.1	487.3	496.1	494.9	509.9	518.4	528.5	500.4	474.9
27.0	324.5	341.9	335.3	326.1	317.9	330.9	336.0	345.3	319.9	299.3
30.0	173.3	184.9	181.0	178.4	158.4	171.6	158.5	164.2	149.2	141.9
33.0	76.87	75.79	76.92	80.79	76.27	73.61	70.20	71.16	68.37	63.11
36.0	47.35	46.15	46.24	47.99	45.81	45.53	44.01	43.10	41.38	40.89
39.0	35.83	35.67	34.81	36.17	35.18	33.40	32.93	33.18	31.77	30.98
42.0	28.36	29.16	28.15	28.57	27.52	26.14	26.13	26.55	25.63	24.83
45.0	22.51	23.18	22.23	22.16	21.35	20.42	20.32	20.83	20.12	19.51
48.0	17.24	17.60	17.04	16.56	16.07	15.57	15.49	16.14	15.49	14.87
51.0	13.21	13.40	13.11	12.41	11.81	11.73	11.64	12.12	11.81	11.27
54.0	9.431	9.727	9.370	9.066	8.697	8.741	8.573	8.808	8.494	8.216
57.0	6.485	6.757	6.426	6.475	6.353	6.355	6.110	6.084	5.747	5.702
60.0	4.693	4.937	4.732	4.784	4.791	4.782	4.535	4.474	4.296	4.220
63.0	3.172	3.393	3.212	3.266	3.271	3.268	3.065	3.037	2.979	2.897
66.0	1.818	1.931	1.681	1.782	1.676	1.755	1.606	1.648	1.478	1.370
69.0	0.4993	0.4741	0.4776	0.4588	0.4752	0.4566	0.4621	0.4456	0.4465	0.4238
72.0	0.3809	0.3517	0.3568	0.3364	0.3504	0.3298	0.3393	0.3211	0.3328	0.3168
75.0	0.2846	0.2556	0.2649	0.2403	0.2583	0.2338	0.2474	0.2294	0.2452	0.2294
78.0	0.2102	0.1791	0.1927	0.1660	0.1839	0.1660	0.1817	0.1616	0.1817	0.1682
81.0	0.1467	0.1223	0.1379	0.1114	0.1313	0.1114	0.1313	0.1092	0.1335	0.1092
84.0	0.1030	0.0786	0.0964	0.0721	0.0898	0.0742	0.0920	0.0699	0.0941	0.0742
87.0	0.0657	0.0437	0.0679	0.0437	0.0657	0.0437	0.0678	0.0415	0.0635	0.0415
90.0	0.0372	0.0350	0.0372	0.0350	0.0350	0.0350	0.0372	0.0350	0.0394	0.0372
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5266	5279	5309	5296	5296	5280	5288	5277	5279	5274
3.0	4968	4974	4985	4953	4962	4954	5001	5018	5095	5140
6.0	3975	3935	3964	3876	3903	3851	3939	3936	4071	4087
9.0	2717	2688	2684	2597	2629	2601	2692	2674	2773	2777
12.0	1807	1784	1784	1716	1737	1731	1796	1791	1873	1896
15.0	1201	1184	1193	1151	1165	1165	1205	1213	1277	1295
18.0	831.4	819.6	828.3	800.3	809.4	808.0	839.8	841.3	889.0	909.4
21.0	614.8	605.5	610.3	596.5	601.9	597.3	617.0	621.8	652.2	672.0
24.0	442.9	439.4	445.1	437.2	443.4	434.3	451.1	453.5	485.7	497.7
27.0	269.9	277.6	301.2	296.1	294.6	273.6	272.8	276.3	305.4	315.8
30.0	124.1	141.8	152.2	133.7	144.8	132.9	138.0	123.0	145.9	144.9
33.0	63.90	62.39	65.23	63.04	61.23	64.73	63.10	64.65	64.20	69.43
36.0	40.91	42.60	42.87	40.04	40.57	41.48	40.95	40.19	42.23	42.72
39.0	31.75	32.91	32.30	31.26	30.91	31.42	31.96	30.82	32.40	33.51
42.0	25.10	25.79	25.69	24.35	24.29	24.62	25.48	24.73	26.01	26.80
45.0	18.99	19.14	19.26	18.32	18.71	18.33	19.10	19.35	20.38	21.05
48.0	14.20	13.95	14.29	13.57	14.07	13.59	13.89	14.68	15.67	16.20
51.0	10.49	10.21	10.39	9.835	9.962	9.962	9.780	10.76	11.55	11.96
54.0	7.528	7.292	7.226	6.930	7.188	7.133	6.802	7.607	8.285	8.463
57.0	5.298	5.117	5.012	4.756	4.938	5.036	4.602	5.231	5.571	5.697
60.0	4.012	3.890	3.772	3.547	3.769	3.903	3.675	3.910	4.042	4.186
63.0	2.734	2.641	2.568	2.378	2.562	2.645	2.846	2.791	2.865	3.034
66.0	1.289	1.332	1.318	1.104	1.289	1.207	1.500	1.524	1.745	1.939
69.0	0.4312	0.4194	0.4237	0.4420	0.4368	0.4639	0.4761	0.5077	0.5307	0.5668
72.0	0.3283	0.3124	0.3189	0.3327	0.3232	0.3524	0.3516	0.3874	0.3931	0.4268
75.0	0.2474	0.2294	0.2293	0.2517	0.2337	0.2648	0.2577	0.2911	0.2905	0.3173
78.0	0.1860	0.1682	0.1638	0.1882	0.1659	0.1948	0.1813	0.2101	0.2009	0.2298
81.0	0.1335	0.1135	0.1135	0.1335	0.1135	0.1357	0.1179	0.1488	0.1331	0.1576
84.0	0.0941	0.0721	0.0699	0.0920	0.0698	0.0898	0.0698	0.0942	0.0807	0.1007
87.0	0.0613	0.0415	0.0349	0.0526	0.0327	0.0526	0.0350	0.0548	0.0415	0.0592
90.0	0.0372	0.0372	0.0241	0.0241	0.0241	0.0241	0.0241	0.0262	0.0262	0.0262
G/C	300.0	315.0	330.0	345.0						
0.0	5271	5272	5266	5279						
3.0	5226	5279	5363	5407						
6.0	4231	4257	4418	4439						
9.0	2886	2904	3008	3009						
12.0	1959	1960	2015	1996						
15.0	1346	1312	1353	1324						
18.0	928.4	903.3	914.8	904.0						
21.0	681.1	656.4	656.4	653.1						

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	505.7	481.5	481.5	477.8
27.0	324.0	303.9	305.6	308.0
30.0	157.8	137.9	152.9	161.3
33.0	67.34	67.51	72.32	75.18
36.0	43.64	43.20	45.20	47.40
39.0	33.43	32.49	34.19	36.33
42.0	26.73	25.58	27.28	28.77
45.0	21.12	19.99	21.42	22.37
48.0	16.03	15.28	16.47	16.89
51.0	11.72	11.57	12.42	12.73
54.0	8.325	8.546	9.057	9.317
57.0	5.734	6.084	6.415	6.601
60.0	4.397	4.665	4.862	4.964
63.0	3.255	3.469	3.512	3.455
66.0	2.019	2.086	2.084	1.926
69.0	0.5766	0.5733	0.5438	0.5254
72.0	0.4258	0.4333	0.4062	0.3961
75.0	0.3123	0.3239	0.3057	0.2998
78.0	0.2118	0.2320	0.2074	0.2167
81.0	0.1375	0.1598	0.1332	0.1532
84.0	0.0829	0.1051	0.0807	0.1007
87.0	0.0393	0.0592	0.0415	0.0635
90.0	0.0241	0.0241	0.0241	0.0284

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: