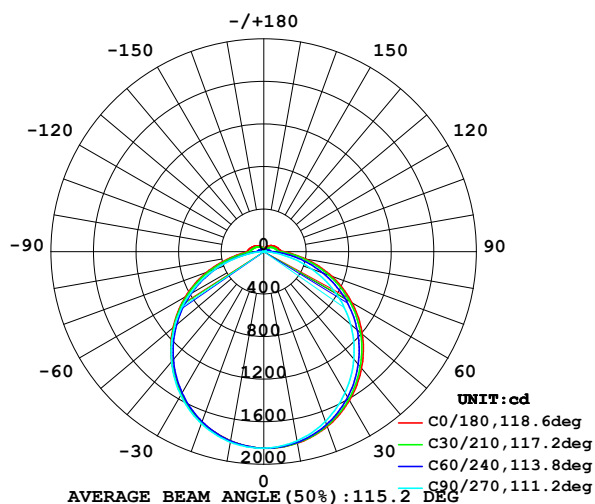


## LUMINAIRE PHOTOMETRIC TEST REPORT

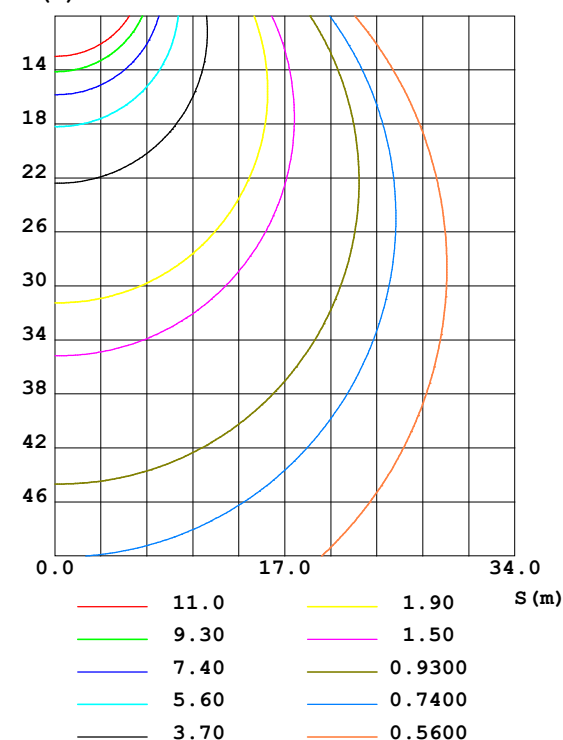
Test:U:230.3V I:0.2101A P:46.65W PF:0.9640 Lamp Flux:5934.31x1 lm		
NAME: TP-M2-050-NW	TYPE:50W-4000K晶典	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 127.22 lm/W			
MODEL		I <sub>max</sub> (cd)	1862	S/MH (C0/180)	1.30
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5934.3	η UP,DN(C0-180)	3.0,45.5
NOMINAL FLUX(lm)	5934.31	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.3,48.2
LAMPS INSIDE	1	η up (%)	6.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.9	η down (%)	93.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2015-06-03

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity:65.0%  
Test Distance:10.500m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1828	1823	1806	1777	1806	1806	1819	1852	0- 10	174.8	174.8	2.95,2.95
20	1750	1737	1697	1647	1703	1701	1720	1792	10- 20	500.7	675.5	11.4,11.4
30	1614	1594	1531	1464	1548	1539	1561	1671	20- 30	759.8	1435	24.2,24.2
40	1431	1402	1317	1242	1349	1332	1349	1496	30- 40	920.0	2355	39.7,39.7
50	1209	1173	1066	986.1	1115	1085	1095	1277	40- 50	964.2	3320	55.9,55.9
60	957.3	913.1	784.0	706.1	853.2	810.3	806.8	1022	50- 60	889.5	4209	70.9,70.9
70	682.0	632.1	478.8	414.4	573.0	516.2	492.5	739.9	60- 70	706.4	4915	82.8,82.8
80	400.8	344.5	177.7	163.6	302.8	236.6	177.8	445.2	70- 80	446.1	5361	90.3,90.3
90	190.5	128.5	2.421	94.16	161.6	104.4	3.678	184.7	80- 90	198.6	5560	93.7,93.7
100	145.2	91.56	3.781	78.79	141.3	88.84	5.243	95.33	90-100	101.2	5661	95.4,95.4
110	126.6	77.75	5.514	65.56	122.7	75.74	7.284	84.84	100-110	80.70	5742	96.8,96.8
120	107.9	53.25	7.401	54.35	104.1	64.28	9.480	64.62	110-120	64.26	5806	97.8,97.8
130	89.65	41.16	9.583	44.32	85.84	53.84	11.75	53.82	120-130	48.61	5855	98.7,98.7
140	71.52	33.86	12.22	34.92	67.95	43.79	14.10	44.41	130-140	34.56	5889	99.2,99.2
150	53.16	30.11	14.99	26.28	50.98	33.96	16.29	38.34	140-150	22.92	5912	99.6,99.6
160	39.01	27.06	17.23	19.25	34.94	24.60	17.92	34.09	150-160	13.53	5926	99.9,99.9
170	25.19	21.83	18.67	16.72	21.27	17.92	18.94	27.82	160-170	6.581	5932	100,100
180	16.69	17.62	19.49	20.84	16.68	17.68	19.38	20.97	170-180	1.870	5934	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

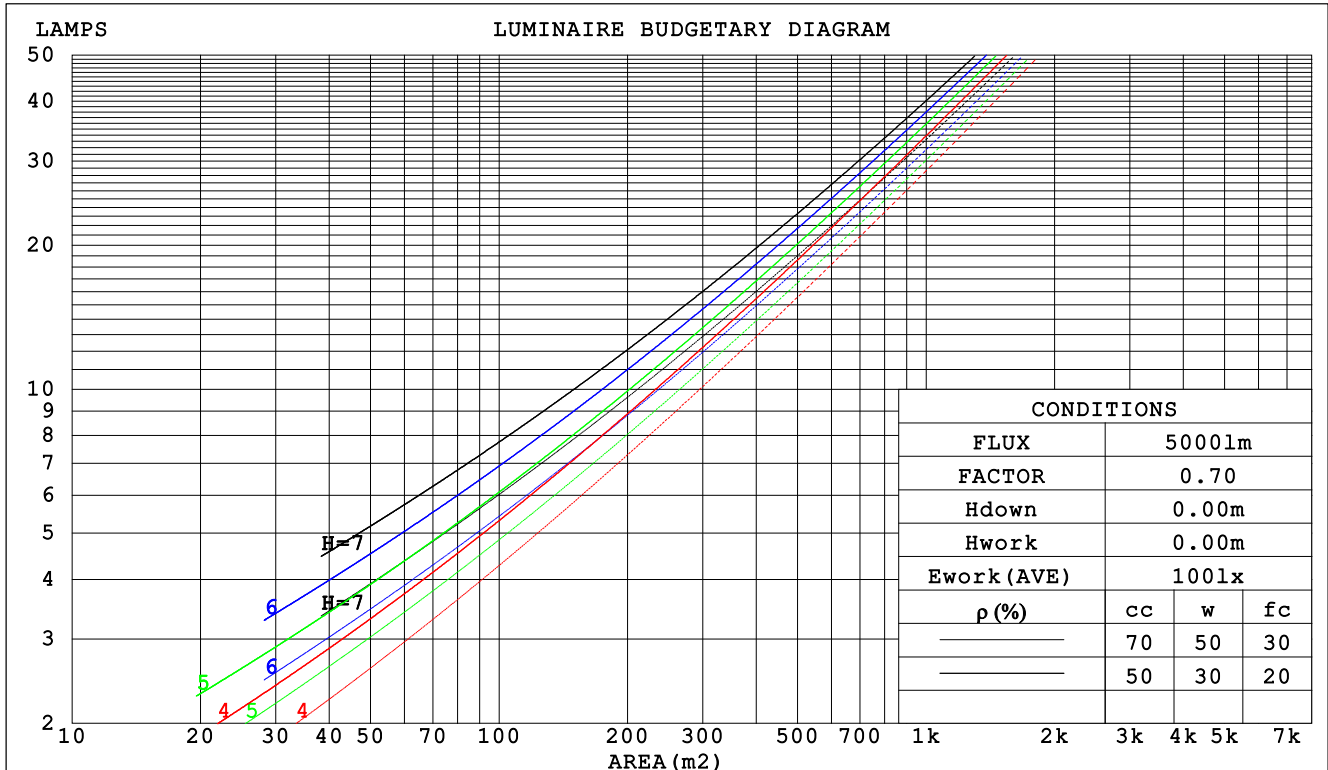
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2015-06-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:10.500m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.3V I:0.2101A P:46.65W PF:0.9640 Lamp Flux:5934.31x1 lm		
NAME: TP-M2-050-NW	TYPE:50W-4000K晶典	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94
1.0	1.01	.97	.93	.98	.94	.91	.93	.90	.87	.88	.85	.83	.83	.81	.79	.77
2.0	.88	.81	.75	.85	.79	.73	.81	.75	.71	.77	.72	.68	.73	.69	.66	.63
3.0	.77	.68	.62	.75	.67	.61	.71	.64	.59	.67	.62	.57	.64	.59	.55	.53
4.0	.68	.59	.52	.66	.58	.51	.63	.56	.50	.60	.54	.49	.57	.52	.47	.45
5.0	.61	.51	.45	.59	.50	.44	.56	.49	.43	.54	.47	.42	.51	.45	.41	.39
6.0	.54	.45	.39	.53	.45	.38	.51	.43	.38	.48	.42	.37	.46	.40	.36	.34
7.0	.49	.40	.34	.48	.40	.34	.46	.39	.33	.44	.37	.32	.42	.36	.32	.30
8.0	.45	.36	.30	.44	.36	.30	.42	.35	.30	.40	.34	.29	.39	.33	.28	.26
9.0	.41	.33	.27	.40	.32	.27	.39	.32	.27	.37	.31	.26	.36	.30	.26	.24
10.0	.38	.30	.25	.37	.30	.24	.36	.29	.24	.34	.28	.24	.33	.27	.23	.21



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2015-06-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:10.500m [K=1.0000]  
 Remarks:

### WEC AND CCEC

Test:U:230.3V I:0.2101A P:46.65W PF:0.9640 Lamp Flux:5934.31x1 lm		
NAME: TP-M2-050-NW	TYPE:50W-4000K晶典	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.329	.187	.059	.320	.182	.058	.303	.174	.056	.287	.166	.053	.273	.158	.051		
2.0	.302	.165	.051	.294	.162	.050	.279	.155	.048	.265	.149	.046	.252	.142	.045		
3.0	.276	.147	.044	.269	.144	.043	.255	.138	.042	.243	.133	.041	.231	.128	.040		
4.0	.253	.132	.039	.247	.129	.038	.235	.124	.037	.223	.120	.036	.213	.116	.035		
5.0	.233	.119	.034	.227	.117	.034	.216	.113	.033	.206	.109	.032	.197	.105	.032		
6.0	.215	.108	.031	.210	.106	.031	.200	.103	.030	.191	.099	.029	.183	.096	.029		
7.0	.200	.099	.028	.195	.097	.028	.186	.094	.027	.178	.091	.027	.170	.088	.026		
8.0	.186	.091	.026	.182	.090	.025	.174	.087	.025	.166	.084	.024	.159	.082	.024		
9.0	.174	.084	.024	.171	.083	.023	.163	.081	.023	.156	.078	.022	.150	.076	.022		
10.0	.164	.079	.022	.160	.077	.022	.154	.075	.021	.147	.073	.021	.141	.071	.020		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.239	.239	.239	.204	.204	.204	.139	.139	.139	.080	.080	.080	.026	.026	.026	
1.0	.230	.204	.181	.197	.175	.156	.135	.121	.108	.078	.070	.063	.025	.022	.020	
2.0	.222	.181	.146	.190	.155	.126	.131	.108	.088	.075	.063	.051	.024	.020	.017	
3.0	.215	.163	.122	.184	.141	.106	.126	.098	.074	.073	.057	.044	.023	.019	.014	
4.0	.207	.150	.107	.178	.130	.093	.122	.091	.065	.071	.053	.039	.023	.017	.013	
5.0	.200	.140	.096	.171	.121	.084	.118	.085	.059	.068	.050	.035	.022	.016	.012	
6.0	.192	.132	.088	.165	.114	.077	.114	.080	.055	.066	.047	.032	.021	.015	.011	
7.0	.186	.125	.083	.160	.108	.072	.110	.076	.051	.064	.045	.030	.021	.015	.010	
8.0	.179	.119	.078	.154	.104	.068	.107	.073	.048	.062	.043	.029	.020	.014	.010	
9.0	.173	.114	.075	.149	.099	.065	.103	.070	.046	.060	.041	.028	.019	.014	.009	
10.0	.167	.110	.072	.144	.096	.063	.100	.067	.045	.058	.040	.027	.019	.013	.009	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2015-06-03

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity:65.0%  
Test Distance:10.500m [K=1.0000]  
Remarks:

### Uncorrected UGR Table

Test:U:230.3V I:0.2101A P:46.65W PF:0.9640 Lamp Flux:5934.3lx1 lm											
NAME: TP-M2-050-NW					TYPE:50W-4000K晶典			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: EVERFINE					SUR.:			PROTECTION ANGLE:			
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	2H	23.0	24.5	23.4	24.8	25.1	22.3	23.8	22.7	24.1	24.4
	3H	24.9	26.3	25.3	26.6	27.0	23.8	25.2	24.2	25.5	25.9
	4H	25.8	27.1	26.2	27.5	27.9	24.4	25.7	24.8	26.0	26.4
	6H	26.7	27.9	27.1	28.3	28.7	24.8	26.0	25.2	26.3	26.8
	8H	27.1	28.2	27.5	28.6	29.0	24.8	26.0	25.3	26.4	26.8
	12H	27.5	28.6	27.9	29.0	29.4	24.9	26.0	25.3	26.4	26.8
4H	2H	23.6	24.9	24.0	25.3	25.7	23.1	24.4	23.5	24.8	25.2
	3H	25.7	26.9	26.2	27.3	27.7	24.9	26.0	25.3	26.4	26.8
	4H	26.8	27.8	27.3	28.3	28.7	25.6	26.6	26.0	27.0	27.5
	6H	27.8	28.7	28.3	29.2	29.7	26.1	27.0	26.6	27.5	28.0
	8H	28.3	29.1	28.8	29.6	30.1	26.2	27.1	26.7	27.6	28.1
	12H	28.8	29.6	29.3	30.1	30.6	26.3	27.1	26.8	27.6	28.1
8H	4H	27.1	28.0	27.6	28.4	29.0	26.1	26.9	26.6	27.4	27.9
	6H	28.3	29.0	28.9	29.6	30.1	26.8	27.5	27.4	28.0	28.6
	8H	29.0	29.6	29.5	30.1	30.7	27.1	27.7	27.6	28.2	28.8
	12H	29.6	30.2	30.2	30.7	31.4	27.3	27.8	27.8	28.4	29.0
12H	4H	27.1	27.9	27.6	28.4	28.9	26.1	26.9	26.7	27.4	28.0
	6H	28.4	29.0	29.0	29.6	30.2	27.0	27.6	27.6	28.2	28.7
	8H	29.1	29.7	29.7	30.2	30.8	27.4	27.9	27.9	28.5	29.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.5					

CIE Pub.117 Corrected 5934 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.2)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2015-06-03

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity:65.0%  
Test Distance:10.500m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:230.3V I:0.2101A P:46.65W PF:0.9640 Lamp Flux:5934.31x1 lm		
NAME: TP-M2-050-NW	TYPE:50W-4000K晶典	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

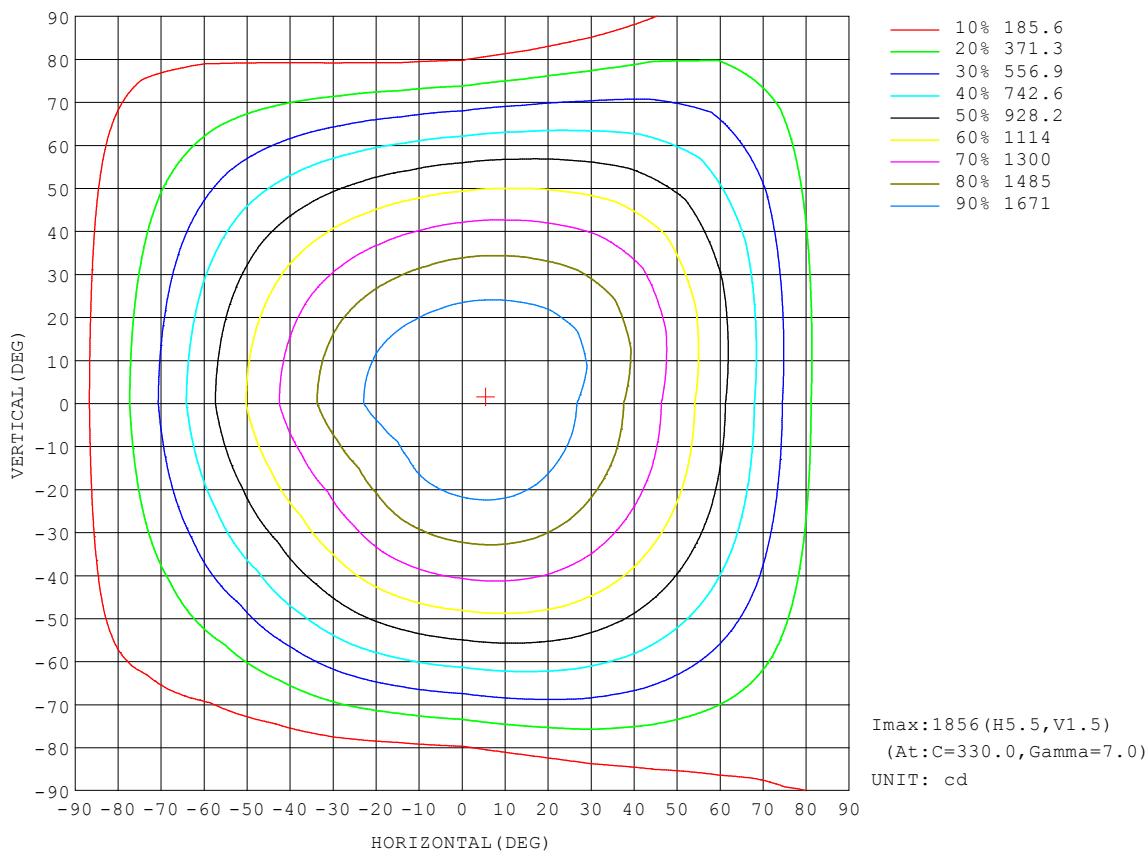
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	43	36	54	42	35	52	42	35	29
0.80	64	52	45	63	52	44	61	51	44	37
1.00	72	61	53	71	60	53	68	61	52	44
1.25	80	68	61	78	67	60	74	66	59	51
1.50	85	74	67	83	73	66	79	71	64	56
2.00	92	82	75	89	81	74	85	78	72	63
2.50	96	87	81	93	85	79	88	82	77	67
3.00	99	92	85	96	90	84	91	86	81	71
4.00	103	97	92	100	95	90	95	91	87	76
5.00	106	100	96	103	98	94	97	93	90	79
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2015-06-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity:65.0%  
Test Distance:10.500m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:230.3V I:0.2101A P:46.65W PF:0.9640 Lamp Flux:5934.31x1 lm		
NAME: TP-M2-050-NW	TYPE:50W-4000K晶典	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

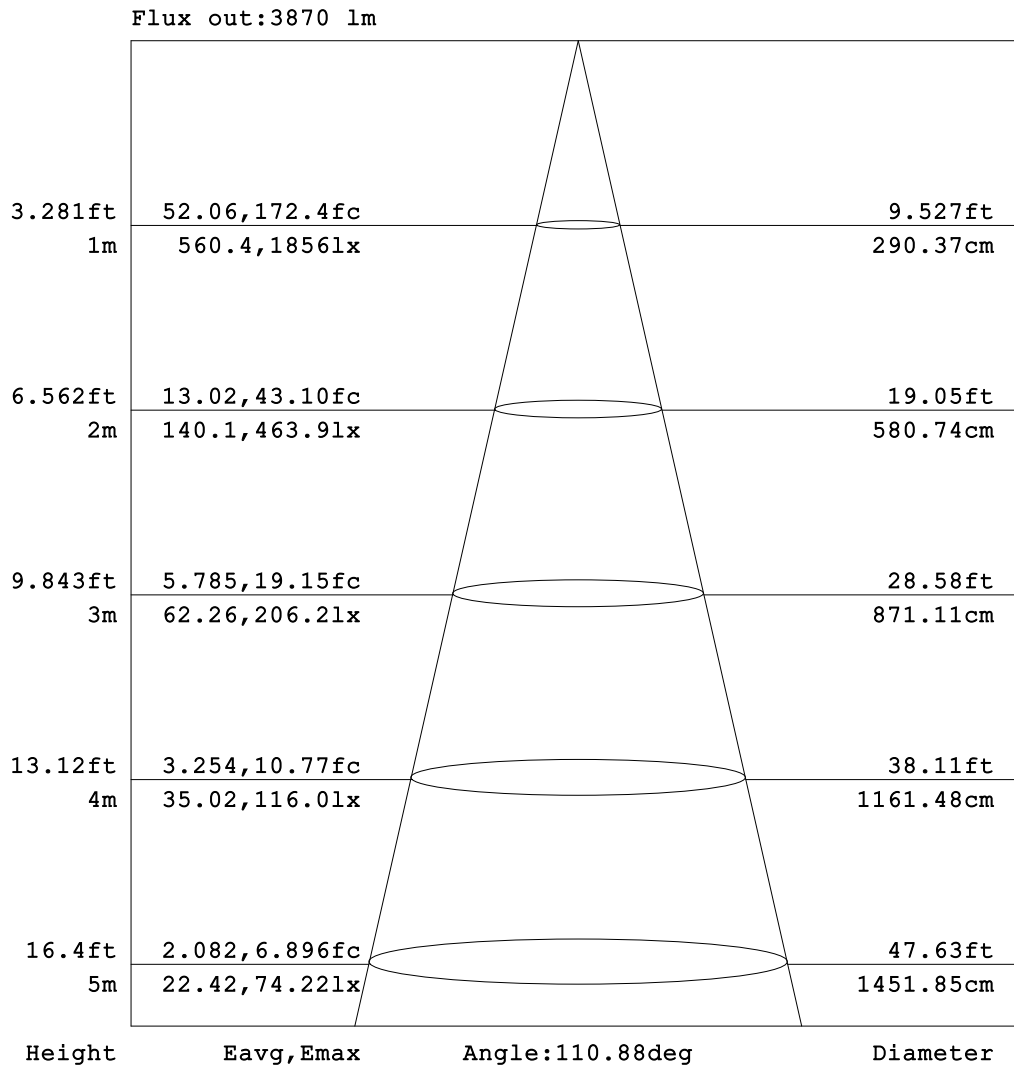


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2015-06-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity:65.0%  
Test Distance:10.500m [K=1.0000]  
Remarks:

### AAI Figure

Test:U:230.3V I:0.2101A P:46.65W PF:0.9640 Lamp Flux:5934.31x1 lm		
NAME: TP-M2-050-NW	TYPE:50W-4000K晶典	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



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

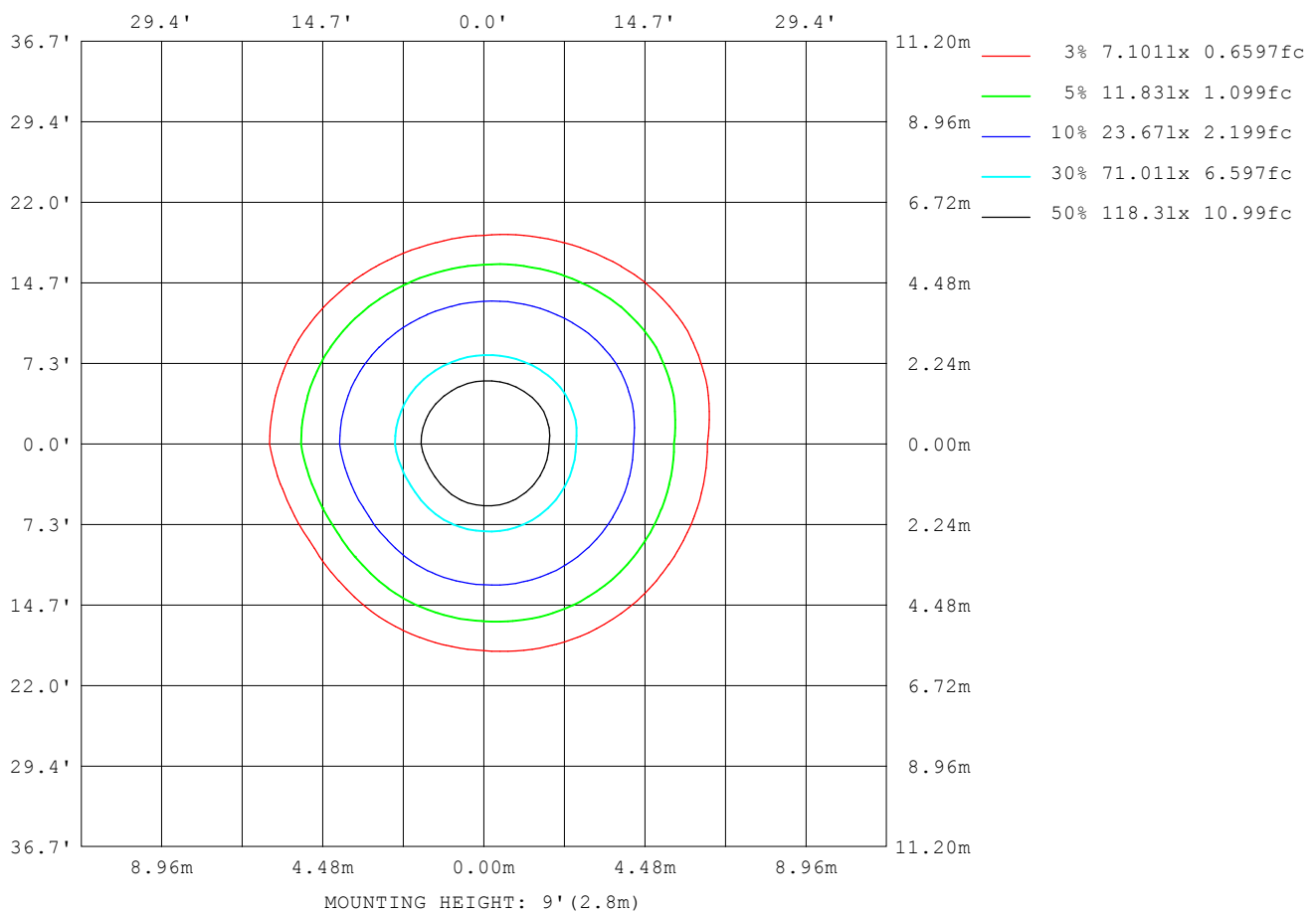
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2015-06-03

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity:65.0%  
Test Distance:10.500m [K=1.0000]  
Remarks:



## ISOLUX DIAGRAM

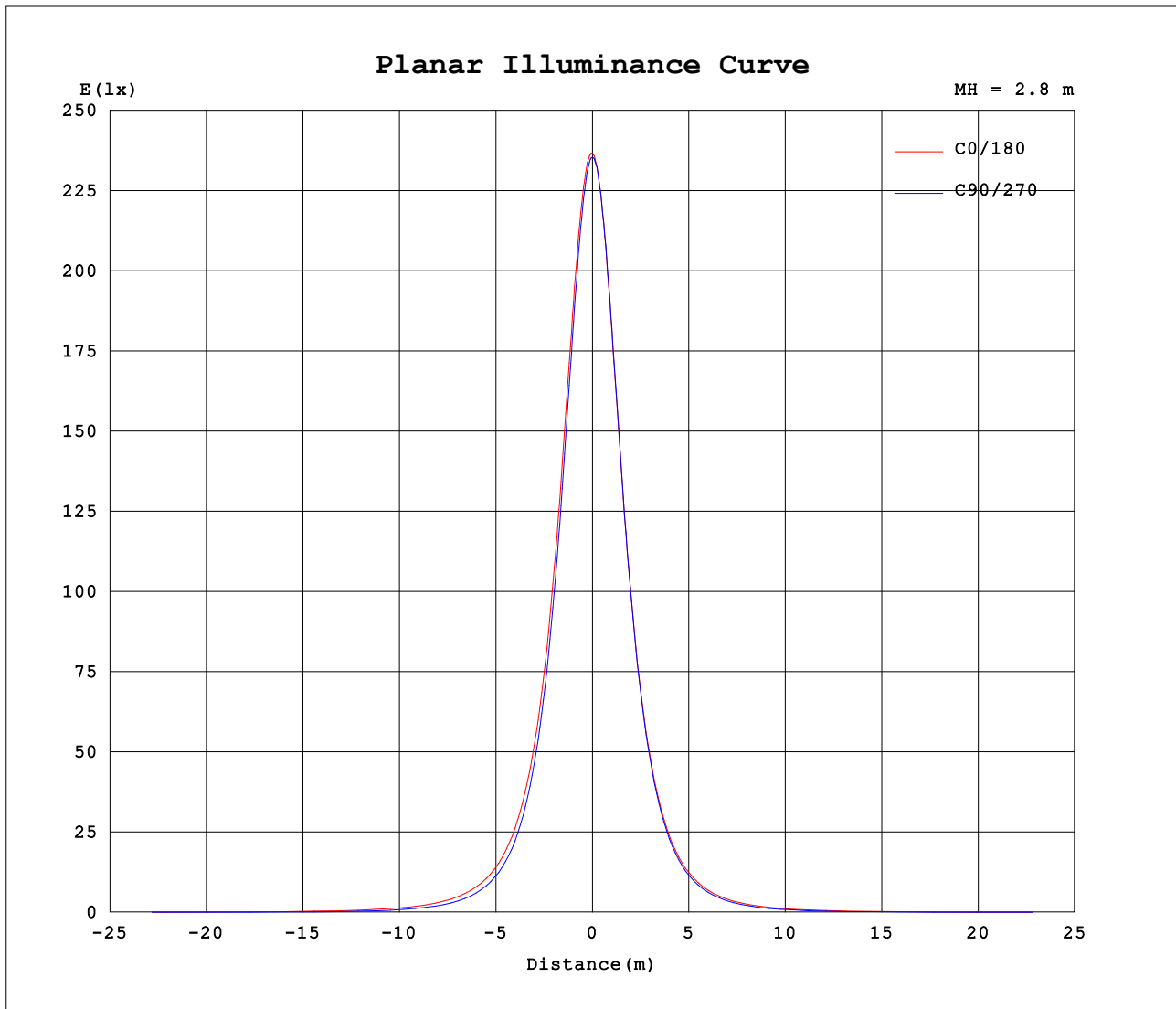
Test:U:230.3V I:0.2101A P:46.65W PF:0.9640 Lamp Flux:5934.31x1 lm		
NAME: TP-M2-050-NW	TYPE:50W-4000K晶典	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2015-06-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity:65.0%  
Test Distance:10.500m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2015-06-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity: 65.0%  
Test Distance: 10.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.3V I:0.2101A P:46.65W PF:0.9640 Lamp Flux:5934.31x1 lm		
NAME: TP-M2-050-NW	TYPE:50W-4000K晶典	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1847	1847	1847	1847	1847	1847	1847	1847	1847	1847	1847	1847	1847	1847	1847	1847	1847	1847	1847
5	1845	1846	1844	1843	1843	1840	1835	1831	1826	1821	1817	1823	1834	1834	1836	1834	1835	1838	1842
10	1828	1828	1826	1823	1821	1815	1806	1797	1789	1777	1771	1783	1806	1806	1808	1806	1807	1810	1819
15	1796	1795	1791	1788	1782	1773	1759	1748	1735	1720	1711	1729	1761	1763	1764	1762	1761	1766	1777
20	1750	1746	1741	1737	1729	1715	1697	1683	1667	1647	1638	1660	1703	1704	1706	1701	1700	1705	1720
25	1688	1684	1678	1672	1661	1643	1621	1603	1585	1562	1551	1580	1632	1633	1634	1627	1624	1630	1648
30	1614	1609	1601	1594	1580	1558	1531	1510	1491	1464	1454	1488	1548	1550	1549	1539	1536	1541	1561
35	1527	1522	1512	1503	1487	1460	1430	1407	1386	1357	1347	1385	1453	1454	1453	1441	1434	1439	1461
40	1431	1425	1412	1402	1383	1352	1317	1294	1272	1242	1231	1274	1349	1349	1346	1332	1322	1326	1349
45	1324	1318	1305	1292	1269	1234	1196	1171	1148	1117	1107	1155	1236	1235	1231	1212	1200	1203	1227
50	1209	1203	1188	1173	1148	1109	1066	1040	1018	986	977	1028	1115	1114	1106	1085	1071	1071	1095
55	1087	1080	1063	1046	1018	975	928	902	880	848	840	895	987	984	976	951	933	931	955
60	957	951	932	913	882	834	784	758	738	706	699	757	853	849	839	810	788	783	807
65	822	815	795	774	740	688	633	608	590	560	555	615	714	710	696	665	639	630	652
70	682	675	654	632	594	538	479	456	441	414	412	473	573	566	551	516	486	473	492
75	540	533	511	487	447	385	324	304	297	276	280	337	433	425	407	370	335	316	331
80	401	394	372	345	304	240	178	166	168	164	178	225	303	296	274	237	198	172	178
85	276	269	247	218	176	114	55.4	60.2	81.6	106	133	162	205	198	176	139	98.3	63.7	53.4
90	191	182	160	128	86.5	35.8	2.42	25.1	61.2	94.2	122	144	162	155	135	104	67.2	28.2	3.68
95	156	149	129	100	62.6	24.9	2.98	20.4	54.3	86.2	113	135	150	144	126	96.2	60.2	23.4	4.39
100	145	139	120	91.6	56.5	22.5	3.78	17.8	48.6	78.8	105	126	141	135	117	88.8	54.4	20.7	5.24
105	136	130	111	81.8	51.9	20.4	4.65	16.2	43.9	71.9	96.7	117	132	126	109	82.0	49.7	19.3	6.24
110	127	121	104	77.7	43.0	18.5	5.51	15.1	39.9	65.6	88.8	108	123	117	101	75.7	45.8	18.4	7.28
115	117	112	94.5	62.8	37.0	17.6	6.43	14.4	36.5	59.7	81.1	99.2	113	108	93.4	69.8	42.4	17.6	8.36
120	108	103	84.5	53.2	33.0	17.1	7.40	13.9	33.5	54.3	73.7	90.5	104	99.5	85.9	64.3	39.4	17.1	9.48
125	98.8	94.3	70.7	47.3	30.2	17.0	8.48	13.5	30.8	49.2	66.6	82.0	94.9	90.7	78.5	59.0	36.9	16.7	10.6
130	89.7	85.3	57.1	41.2	28.3	17.0	9.58	13.3	28.2	44.3	59.6	73.6	85.8	82.0	71.1	53.8	34.3	16.4	11.7
135	80.6	74.3	49.4	36.3	26.6	17.6	10.8	13.3	25.8	39.6	52.9	65.3	76.9	73.5	64.0	48.8	31.4	15.9	12.9
140	71.5	66.1	43.6	33.9	26.4	18.6	12.2	13.3	23.6	34.9	46.3	57.3	67.9	65.0	56.9	43.8	28.4	15.6	14.1
145	61.9	51.8	40.2	30.9	26.5	19.5	13.6	13.5	21.5	30.5	39.9	49.6	59.3	56.8	50.0	38.8	25.7	15.5	15.2
150	53.2	40.6	35.7	30.1	26.2	20.3	15.0	13.9	19.6	26.3	33.8	41.9	51.0	48.9	43.2	34.0	23.1	15.6	16.3
155	46.2	34.1	31.7	28.9	25.4	20.7	16.2	14.1	17.9	22.5	28.0	34.6	42.7	41.0	36.5	29.2	20.6	15.6	17.2
160	39.0	27.9	27.1	27.1	24.2	20.5	17.2	15.4	16.7	19.2	22.9	27.9	34.9	33.4	30.2	24.6	18.5	15.6	17.9
165	31.8	23.8	24.2	24.4	22.8	20.0	18.0	16.5	15.9	17.1	18.8	22.1	27.6	26.4	24.2	20.6	17.1	16.5	18.4
170	25.2	21.4	21.6	21.8	20.9	19.7	18.7	17.6	16.9	16.7	16.5	17.9	21.3	20.5	19.5	17.9	15.9	17.3	18.9
175	19.6	18.1	18.9	19.4	19.3	19.4	19.1	18.7	18.4	18.5	18.0	16.6	16.7	17.0	16.7	16.2	16.9	18.1	19.2
180	16.7	16.7	17.0	17.6	18.2	18.8	19.5	19.8	20.1	20.8	20.8	18.8	16.7	16.7	16.9	17.7	18.1	19.0	19.4

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2015-06-03

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity:65.0%  
Test Distance:10.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.3V I:0.2101A P:46.65W PF:0.9640 Lamp Flux:5934.31x1 lm		
NAME: TP-M2-050-NW	TYPE:50W-4000K晶典	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1847	1847	1847	1847	1847														
5	1846	1851	1860	1860	1856														
10	1828	1838	1852	1859	1849														
15	1791	1808	1831	1841	1828														
20	1739	1762	1792	1809	1791														
25	1671	1701	1739	1760	1739														
30	1588	1625	1671	1696	1673														
35	1493	1535	1590	1620	1594														
40	1385	1435	1496	1532	1503														
45	1267	1323	1391	1431	1402														
50	1140	1201	1277	1321	1291														
55	1004	1072	1153	1202	1172														
60	861	935	1022	1075	1045														
65	710	790	884	941	912														
70	555	641	740	801	773														
75	398	489	593	657	630														
80	247	339	445	512	487														
85	117	203	304	368	350														
90	36.8	101	185	243	234														
95	26.4	66.6	115	159	167														
100	24.1	59.6	95.3	131	148														
105	23.8	55.1	84.6	117	137														
110	22.0	49.2	84.8	104	128														
115	20.9	45.2	74.8	102	116														
120	21.2	41.3	64.6	97.1	102														
125	21.2	38.9	59.9	86.4	94.3														
130	21.2	35.4	53.8	72.0	88.9														
135	21.3	33.4	49.6	62.9	82.1														
140	22.0	31.8	44.4	56.6	74.4														
145	22.5	31.5	40.2	52.3	63.0														
150	22.9	30.9	38.3	46.3	49.5														
155	23.0	29.8	36.5	41.1	42.2														
160	22.7	28.1	34.1	36.0	36.0														
165	21.7	26.3	31.1	32.2	30.2														
170	21.1	24.2	27.8	28.6	25.8														
175	20.6	21.7	24.4	24.7	21.4														
180	19.9	20.1	21.0	20.8	18.7														

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2015-06-03

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity:65.0%  
Test Distance:10.500m [K=1.0000]  
Remarks: