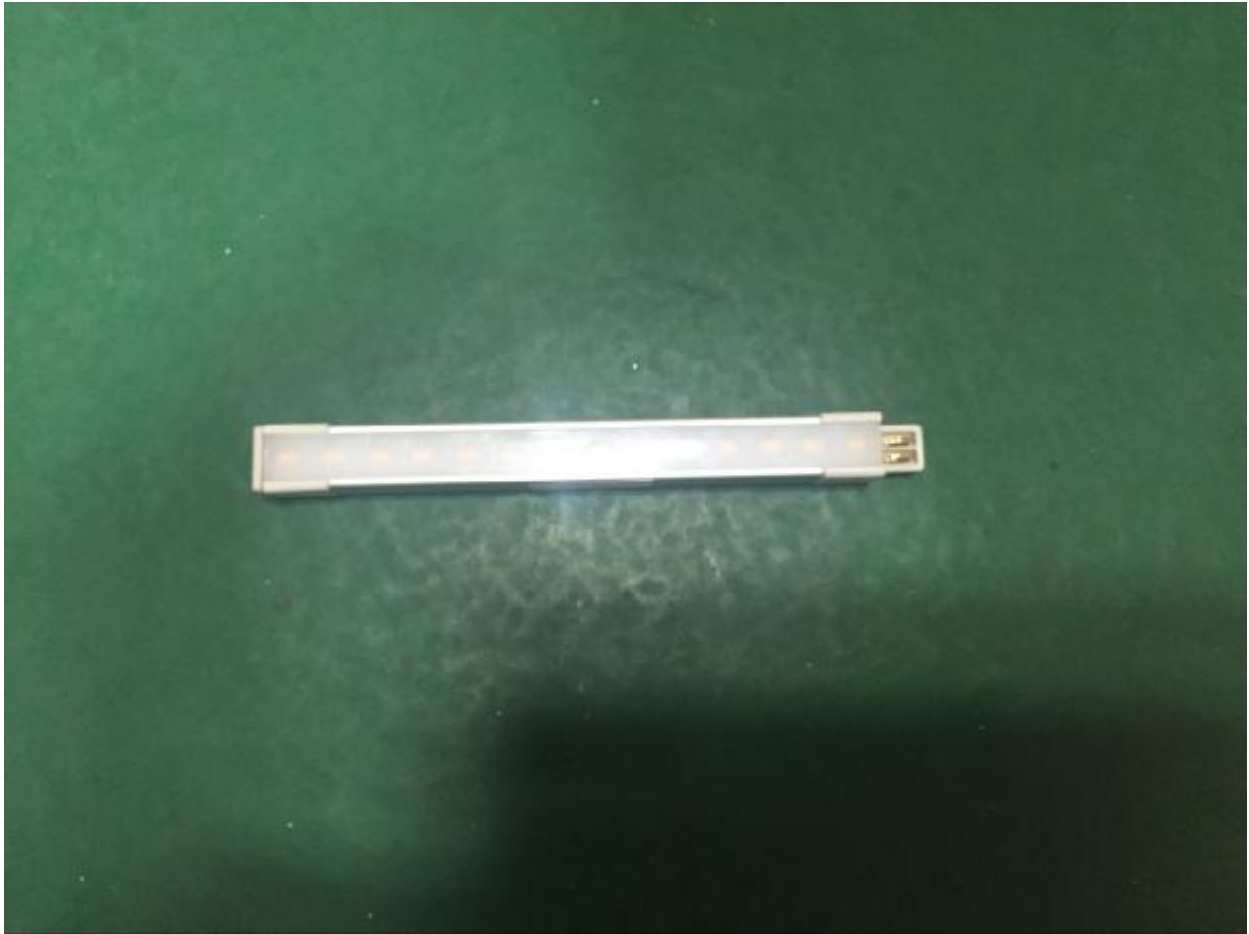




## Luminaire Photograph

1510.008F.3BTA 3000K  
RISE

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C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Lanjunbao  
Test Date:2016-09-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
Humidity:65.0%  
Test Distance:2.500m [K=1.0094]  
Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 3000K  
DC 24V  
30minutes warm-up



## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

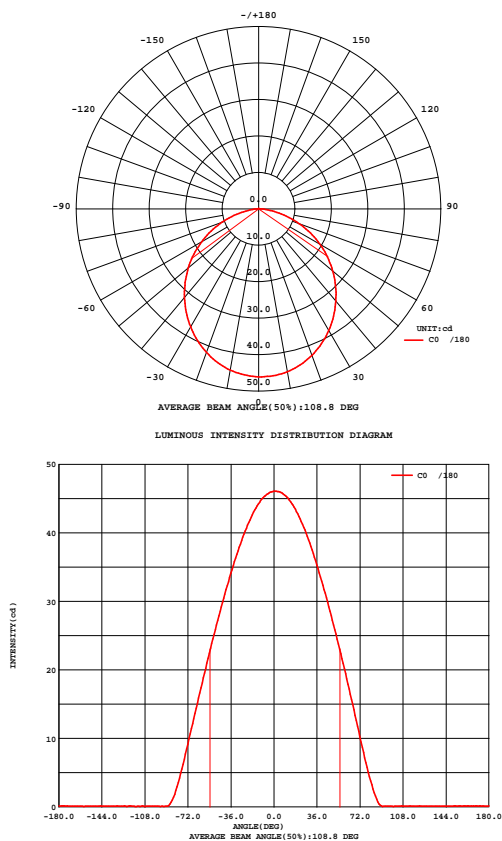


Fig. C0/C180

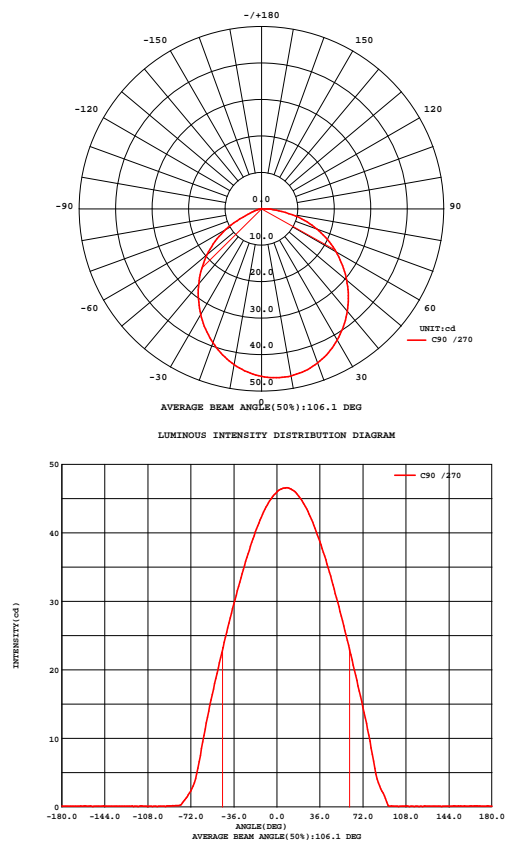


Fig. C90/C270

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Lanjunbao  
Test Date:2016-09-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
Humidity:65.0%  
Test Distance:2.500m [K=1.0094]  
Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 3000K  
DC 24V  
30minutes warm-up

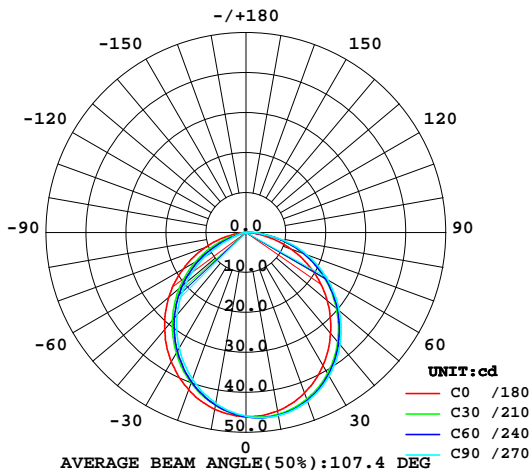


## LUMINAIRE PHOTOMETRIC TEST REPORT

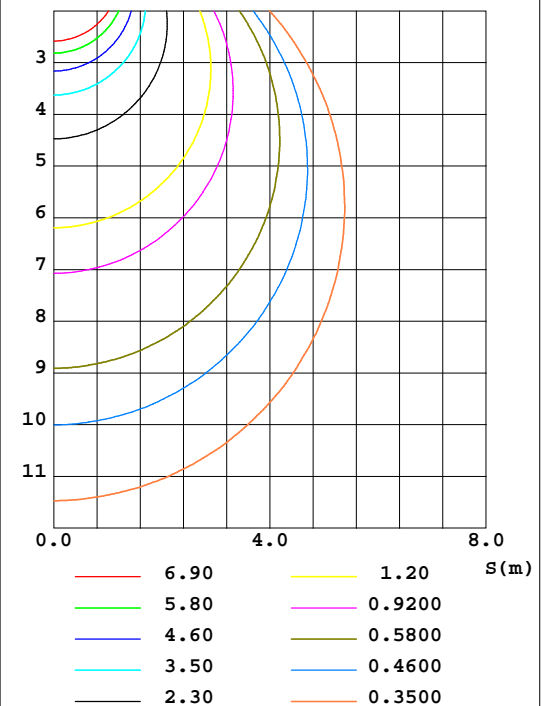
Test:U:24.00V I:0.0608A P:1.457W PF:0.9997 Lamp Flux:171.4x1 lm		
NAME: 1510.008F.3BTA	TYPE:	WEIGHT:
DIMENSION:	SPECIFICATION:3000K	SERIAL No.:1609068477
MANUFACTURER: RISE	SURFACE:0.01342m2	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.53 lm/W			
MODEL	HONGLI 3014	Imax(cd)	46.56	S/MH(C0/180)	1.21
NOMINAL POWER(W)	1	EFFICIENCY(%)	71.9	S/MH(C90/270)	1.10
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	123.18	h UP(C0-180)	0.2
NOMINAL FLUX(lm)	171.37	CIE CLASS	DIRECT	h DN(C0-180)	30.6
LAMPS INSIDE	1	h up(%)	0.5	h UP(C180-360)	0.2
TEST VOLTAGE(V)	24.0	h down(%)	71.4	h DN(C180-360)	40.8

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



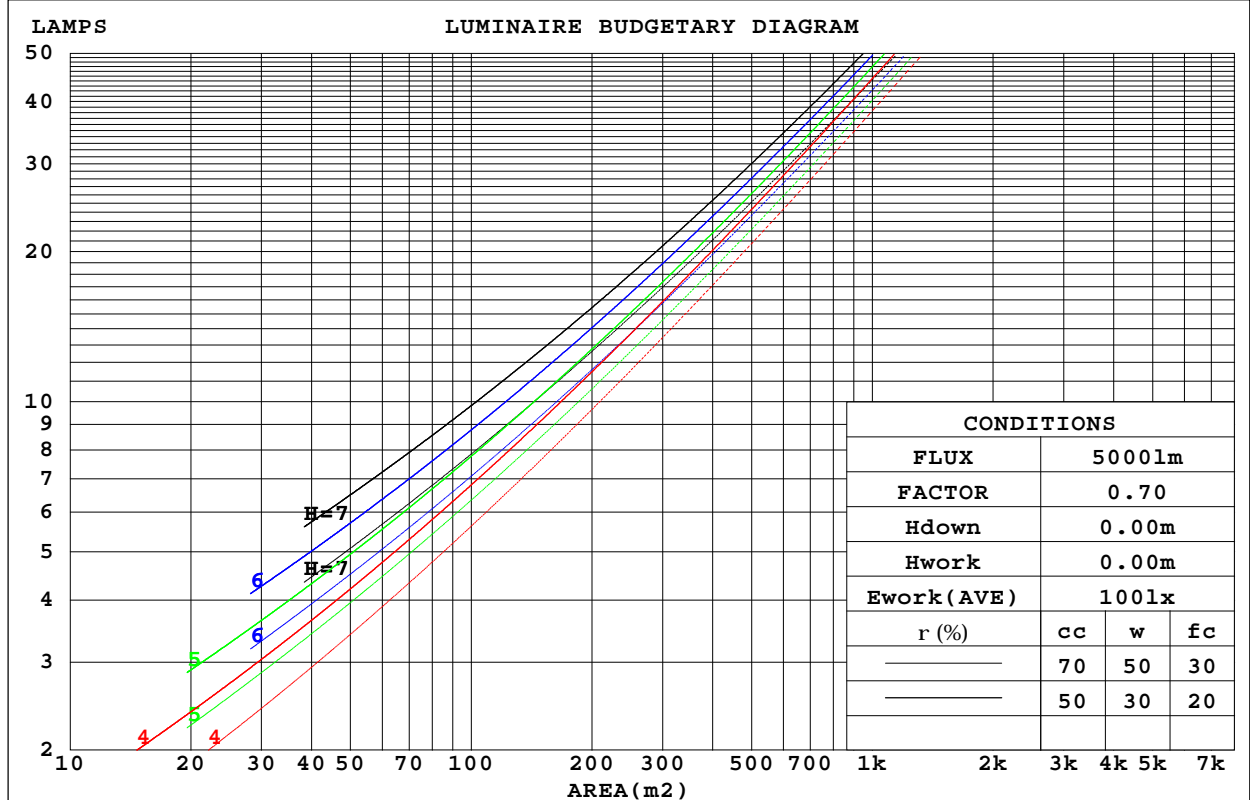
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Lanjunbao  
 Test Date:2016-09-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
 Humidity:65.0%  
 Test Distance:2.500m [K=1.0094]  
 Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 3000K  
 DC 24V  
 30minutes warm-up



## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio      Coefficients of Utilization(CU)															
0.0	.85	.85	.85	.83	.83	.83	.80	.80	.80	.76	.76	.76	.73	.73	.73	.71
1.0	.75	.72	.69	.73	.71	.68	.70	.68	.66	.67	.65	.64	.65	.63	.62	.60
2.0	.66	.61	.57	.64	.60	.56	.62	.58	.55	.59	.56	.53	.57	.54	.52	.51
3.0	.58	.52	.47	.57	.51	.47	.54	.50	.46	.52	.48	.45	.50	.47	.44	.43
4.0	.51	.45	.40	.50	.44	.40	.48	.43	.39	.47	.42	.39	.45	.41	.38	.37
5.0	.46	.39	.35	.45	.39	.35	.43	.38	.34	.42	.37	.34	.41	.37	.33	.32
6.0	.41	.35	.30	.41	.35	.30	.39	.34	.30	.38	.33	.30	.37	.33	.29	.28
7.0	.37	.31	.27	.37	.31	.27	.36	.30	.27	.35	.30	.26	.34	.29	.26	.25
8.0	.34	.28	.24	.34	.28	.24	.33	.27	.24	.32	.27	.24	.31	.27	.23	.22
9.0	.31	.26	.22	.31	.25	.22	.30	.25	.21	.29	.25	.21	.29	.24	.21	.20
10.0	.29	.23	.20	.29	.23	.20	.28	.23	.19	.27	.23	.19	.27	.22	.19	.18



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Lanjunbao  
 Test Date: 2016-09-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
 Humidity: 65.0%  
 Test Distance: 2.500m [K=1.0094]  
 Remarks: LAMP: HL-A-3014H421W-S1-08-HR3 3000K  
 DC 24V  
 30minutes warm-up



## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	44.93	43.88	43.39	44.32	45.35	46.30	46.52	45.82	0- 10	4.348	4.348	3.53,2.54
20	41.88	39.95	39.09	40.78	42.79	44.56	44.97	43.65	10- 20	12.37	16.72	13.6,9.75
30	37.35	34.59	33.43	35.77	38.48	40.98	41.55	39.69	20- 30	18.49	35.21	28.6,20.5
40	31.70	28.28	26.84	29.61	32.93	35.87	36.61	34.39	30- 40	21.90	57.11	46.4,33.3
50	25.20	21.33	19.50	22.69	26.55	29.74	30.49	28.12	40- 50	22.24	79.34	64.4,46.3
60	18.10	13.79	11.36	15.24	19.42	22.73	23.62	21.16	50- 60	19.57	98.91	80.3,57.7
70	10.67	5.744	3.067	7.013	11.80	15.25	16.17	13.71	60- 70	14.16	113.1	91.8,66
80	3.571	0.7134	0.3630	1.163	4.430	7.346	7.657	5.867	70- 80	7.390	120.5	97.8,70.3
90	0.1356	0.1355	0.1788	0.1316	0.1450	1.011	1.628	0.6383	80- 90	1.932	122.4	99.4,71.4
100	0.1099	0.1001	0.0871	0.1153	0.0752	0.1183	0.1152	0.0906	90-100	0.1733	122.6	99.5,71.5
110	0.1421	0.0851	0.1358	0.1282	0.1240	0.1202	0.1090	0.1398	100-110	0.1232	122.7	99.6,71.6
120	0.1552	0.1158	0.0911	0.1161	0.1200	0.0954	0.1189	0.1305	110-120	0.1149	122.8	99.7,71.7
130	0.1081	0.1087	0.1139	0.1106	0.1356	0.1023	0.1334	0.1175	120-130	0.1039	122.9	99.8,71.7
140	0.1084	0.1099	0.1292	0.1243	0.1115	0.1038	0.1347	0.1220	130-140	0.0892	123.0	99.8,71.8
150	0.1296	0.1123	0.1017	0.1247	0.1072	0.1312	0.1249	0.1248	140-150	0.0755	123.1	99.9,71.8
160	0.1127	0.1286	0.1642	0.1128	0.1483	0.1588	0.1330	0.1238	150-160	0.0585	123.1	100,71.9
170	0.1171	0.0918	0.1086	0.1224	0.1436	0.1479	0.1516	0.1356	160-170	0.0381	123.2	100,71.9
180	0.1552	0.1477	0.1551	0.1437	0.1526	0.1185	0.1259	0.1461	170-180	0.0126	123.2	100,71.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Lanjunbao  
 Test Date:2016-09-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
 Humidity:65.0%  
 Test Distance:2.500m [K=1.0094]  
 Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 3000K  
 DC 24V  
 30minutes warm-up



## WEC AND CCEC

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.215	.122	.039	.209	.119	.038	.200	.115	.037	.191	.110	.035	.182	.106	.034	
2.0	.203	.111	.034	.199	.109	.034	.190	.106	.033	.182	.102	.032	.175	.099	.031	
3.0	.189	.101	.030	.185	.099	.030	.177	.096	.029	.170	.093	.029	.164	.091	.028	
4.0	.175	.091	.027	.172	.090	.027	.165	.087	.026	.159	.085	.026	.153	.083	.025	
5.0	.162	.083	.024	.159	.082	.024	.153	.080	.023	.148	.078	.023	.142	.076	.023	
6.0	.151	.076	.022	.148	.075	.022	.143	.073	.021	.138	.072	.021	.133	.070	.021	
7.0	.141	.070	.020	.138	.069	.020	.133	.067	.019	.129	.066	.019	.125	.065	.019	
8.0	.132	.064	.018	.129	.064	.018	.125	.062	.018	.121	.061	.018	.117	.060	.018	
9.0	.123	.060	.017	.121	.059	.017	.118	.058	.016	.114	.057	.016	.110	.056	.016	
10.0	.116	.056	.015	.114	.055	.015	.111	.054	.015	.108	.053	.015	.104	.053	.015	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.140	.140	.140	.120	.120	.120	.082	.082	.082	.047	.047	.047	.015	.015	.015	
1.0	.133	.116	.101	.113	.099	.087	.078	.068	.060	.045	.040	.035	.014	.013	.011	
2.0	.127	.098	.075	.108	.085	.065	.074	.059	.045	.043	.034	.026	.014	.011	.009	
3.0	.121	.086	.058	.104	.074	.050	.071	.051	.035	.041	.030	.021	.013	.010	.007	
4.0	.115	.076	.046	.099	.066	.040	.068	.046	.028	.039	.027	.017	.013	.009	.005	
5.0	.110	.069	.038	.095	.059	.033	.065	.041	.023	.038	.024	.014	.012	.008	.005	
6.0	.105	.063	.032	.090	.054	.028	.062	.038	.020	.036	.022	.012	.012	.007	.004	
7.0	.100	.058	.028	.086	.050	.024	.060	.035	.017	.035	.021	.010	.011	.007	.003	
8.0	.096	.053	.025	.082	.046	.021	.057	.033	.015	.033	.019	.009	.011	.006	.003	
9.0	.091	.050	.022	.079	.043	.019	.054	.030	.014	.032	.018	.008	.010	.006	.003	
10.0	.087	.047	.020	.075	.041	.017	.052	.029	.012	.030	.017	.007	.010	.006	.002	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Lanjunbao  
 Test Date:2016-09-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
 Humidity:65.0%  
 Test Distance:2.500m [K=1.0094]  
 Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 3000K  
 DC 24V  
 30minutes warm-up



## Uncorrected UGR Table

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	15.6	17.1	15.9	17.3	17.6	14.3	15.8	14.6	16.0	16.2
3H	17.0	18.4	17.3	18.6	18.8	14.7	16.0	15.0	16.3	16.5
4H	17.4	18.8	17.8	19.0	19.3	14.6	15.9	15.0	16.2	16.5
6H	17.7	18.9	18.0	19.2	19.5	14.6	15.8	14.9	16.1	16.4
8H	17.7	18.9	18.1	19.2	19.5	14.5	15.7	14.9	16.0	16.3
12H	17.7	18.9	18.1	19.2	19.5	14.5	15.6	14.8	15.9	16.2
4H 2H	15.9	17.2	16.2	17.5	17.7	14.8	16.1	15.1	16.4	16.6
3H	17.3	18.5	17.7	18.8	19.1	15.2	16.4	15.6	16.7	17.0
4H	17.8	18.9	18.2	19.2	19.5	15.2	16.3	15.6	16.6	17.0
6H	18.1	19.0	18.5	19.4	19.8	15.2	16.1	15.6	16.5	16.8
8H	18.2	19.0	18.6	19.4	19.8	15.1	16.0	15.6	16.4	16.8
12H	18.2	19.0	18.6	19.4	19.8	15.1	15.9	15.5	16.3	16.7
8H 4H	17.8	18.6	18.2	19.0	19.4	15.3	16.1	15.7	16.5	16.9
6H	18.1	18.8	18.5	19.2	19.6	15.3	16.0	15.7	16.4	16.8
8H	18.1	18.8	18.6	19.2	19.7	15.2	15.8	15.7	16.3	16.7
12H	18.2	18.7	18.7	19.2	19.7	15.2	15.7	15.7	16.2	16.7
12H 4H	17.7	18.5	18.2	18.9	19.3	15.3	16.0	15.7	16.4	16.9
6H	18.0	18.7	18.5	19.1	19.6	15.2	15.9	15.7	16.3	16.8
8H	18.1	18.7	18.6	19.1	19.6	15.2	15.7	15.7	16.2	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.5 / - 0.7				
1.5H	+ 0.2 / - 0.3					+ 0.4 / - 0.8				
2.0H	+ 0.7 / - 0.8					+ 0.7 / - 1.1				

CIE Pub.117 Corrected 171.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -6.1)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Lanjunbao  
 Test Date:2016-09-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
 Humidity:65.0%  
 Test Distance:2.500m [K=1.0094]  
 Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 3000K  
 DC 24V  
 30minutes warm-up



## UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	42	34	29	41	34	29	41	33	29	24
0.80	49	41	36	48	41	36	47	40	35	31
1.00	55	47	42	54	47	42	53	48	42	37
1.25	60	53	48	59	52	48	57	51	47	42
1.50	64	57	52	63	56	52	61	55	51	46
2.00	69	63	58	67	62	58	65	60	57	51
2.50	71	66	62	70	65	61	67	63	60	54
3.00	74	69	65	72	68	64	69	66	63	57
4.00	77	73	69	75	71	68	72	69	66	60
5.00	78	75	72	77	73	71	73	71	69	62
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

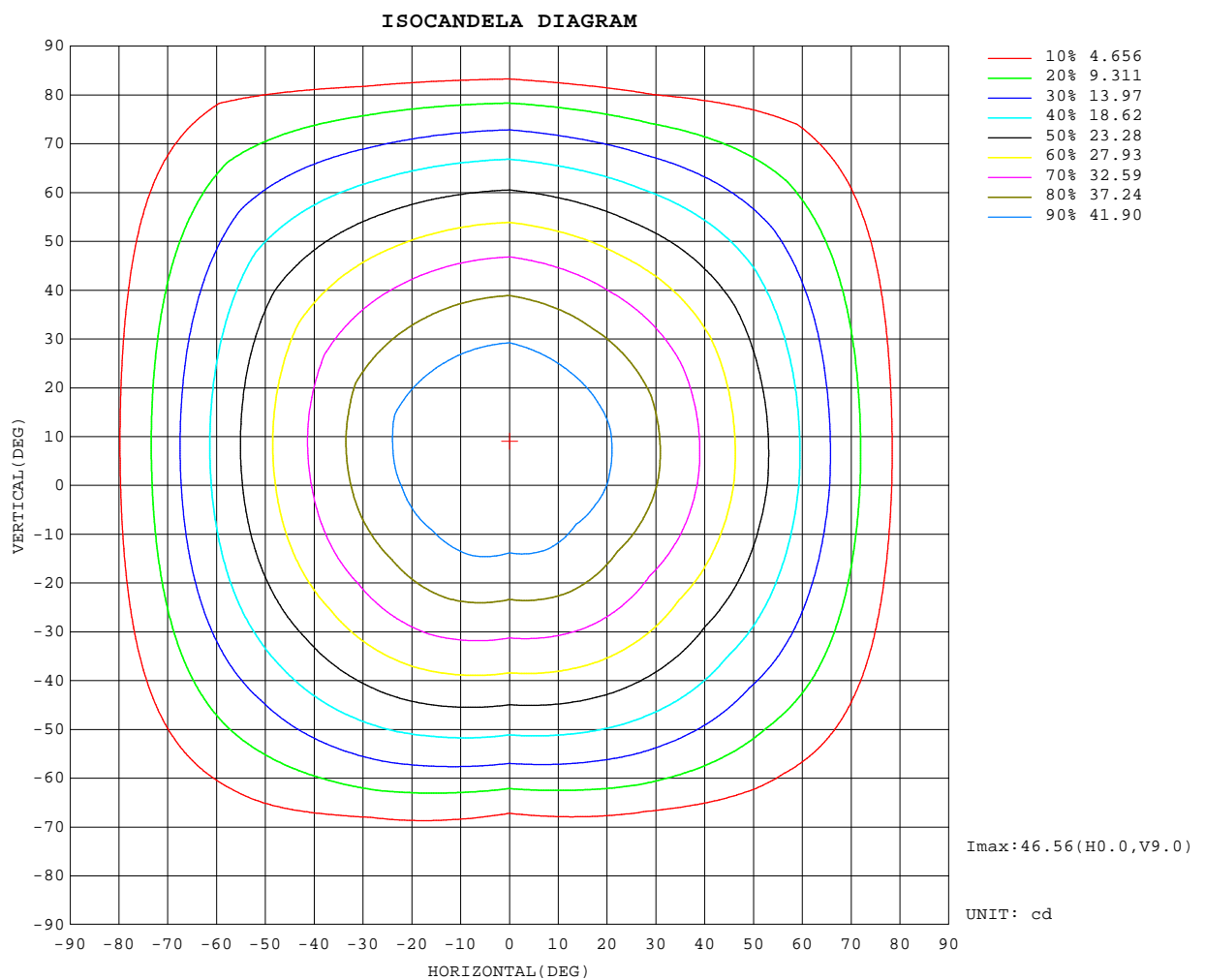
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Lanjunbao  
 Test Date: 2016-09-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
 Humidity: 65.0%  
 Test Distance: 2.500m [K=1.0094]  
 Remarks: LAMP: HL-A-3014H421W-S1-08-HR3 3000K  
 DC 24V  
 30minutes warm-up





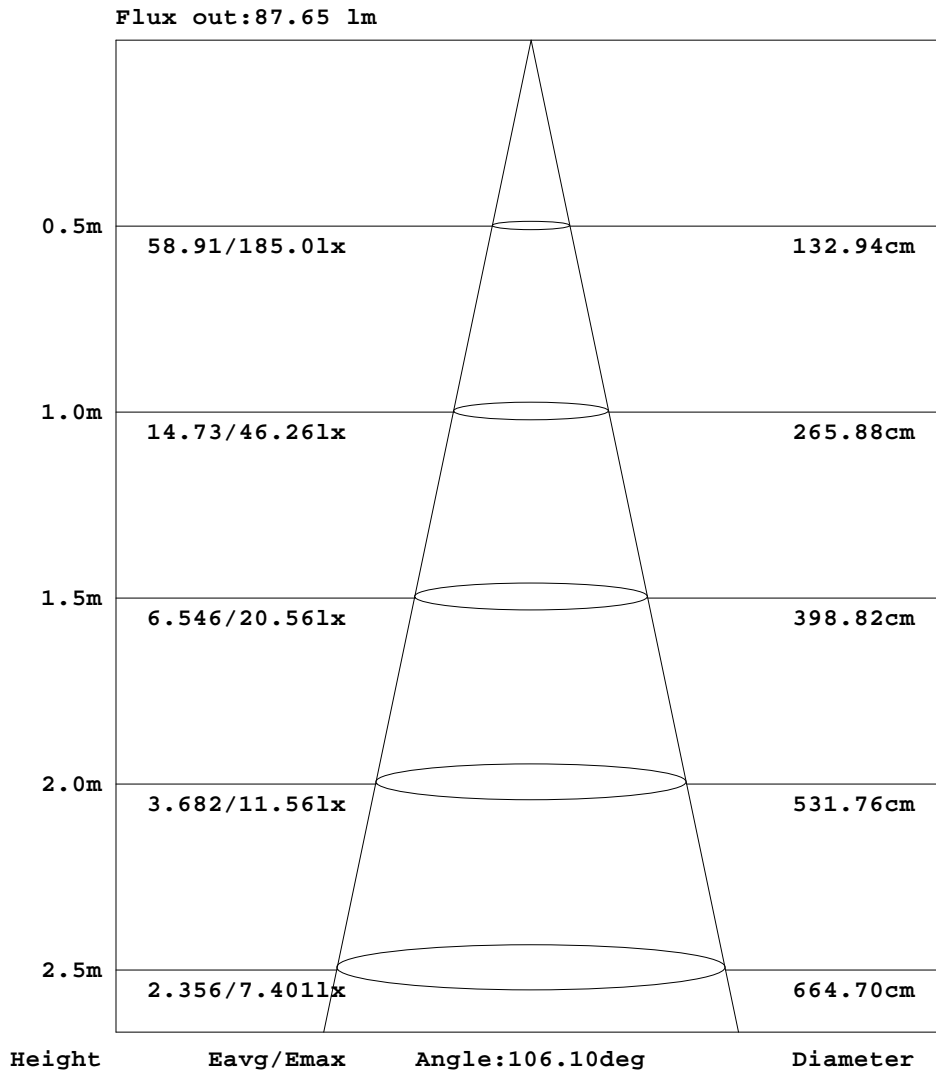
## ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Lanjunbao  
 Test Date: 2016-09-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
 Humidity: 65.0%  
 Test Distance: 2.500m [K=1.0094]  
 Remarks: LAMP: HL-A-3014H421W-S1-08-HR3 3000K  
 DC 24V  
 30minutes warm-up

## AAI Figure



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

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Lanjunbao  
 Test Date:2016-09-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
 Humidity:65.0%  
 Test Distance:2.500m [K=1.0094]  
 Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 3000K  
 DC 24V  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C( DEG) g (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	46.1	46.0	46.1	45.9	46.1	46.0	46.1	46.0	46.1	45.9	46.1	46.0						
5	45.7	45.2	45.2	44.9	45.3	45.5	46.0	46.3	46.5	46.5	46.3	46.0						
10	44.9	43.9	43.8	43.4	44.1	44.5	45.4	46.2	46.4	46.5	46.1	45.6						
15	43.6	42.2	42.0	41.4	42.5	43.1	44.2	45.5	45.8	46.0	45.3	44.7						
20	41.9	40.1	39.8	39.1	40.4	41.2	42.8	44.4	44.7	45.0	44.1	43.2						
25	39.8	37.6	37.2	36.4	38.0	39.0	40.8	42.8	43.2	43.5	42.3	41.4						
30	37.4	34.9	34.3	33.4	35.2	36.3	38.5	40.8	41.2	41.5	40.2	39.2						
35	34.6	31.9	31.2	30.3	32.1	33.5	35.9	38.4	38.8	39.2	37.7	36.7						
40	31.7	28.7	27.9	26.8	28.9	30.3	32.9	35.7	36.1	36.6	34.9	33.8						
45	28.6	25.3	24.4	23.3	25.5	27.0	29.8	32.7	33.1	33.7	31.9	30.8						
50	25.2	21.8	20.8	19.5	21.8	23.6	26.6	29.6	29.9	30.5	28.7	27.6						
55	21.7	18.2	17.1	15.6	18.1	20.0	23.1	26.2	26.5	27.1	25.2	24.1						
60	18.1	14.5	13.1	11.4	14.2	16.3	19.4	22.6	22.9	23.6	21.7	20.6						
65	14.4	10.8	8.98	6.59	9.99	12.5	15.7	19.0	19.1	20.0	18.0	16.9						
70	10.7	7.10	4.39	3.07	5.35	8.68	11.8	15.2	15.4	16.2	14.2	13.2						
75	6.99	3.48	1.82	1.50	2.24	4.87	7.95	11.3	11.5	12.2	10.3	9.49						
80	3.57	0.85	0.58	0.36	0.82	1.50	4.43	7.44	7.25	7.66	5.86	5.87						
85	1.00	0.13	0.13	0.23	0.13	0.24	1.60	4.03	2.96	3.52	2.32	2.40						
90	0.14	0.14	0.13	0.18	0.13	0.13	0.14	0.96	1.06	1.63	0.81	0.47						
95	0.09	0.12	0.14	0.11	0.11	0.12	0.12	0.12	0.13	0.12	0.09	0.13						
100	0.11	0.09	0.11	0.09	0.12	0.11	0.08	0.13	0.11	0.12	0.08	0.10						
105	0.13	0.15	0.10	0.10	0.16	0.11	0.11	0.13	0.11	0.13	0.13	0.09						
110	0.14	0.09	0.08	0.14	0.14	0.12	0.12	0.12	0.12	0.11	0.15	0.13						
115	0.09	0.11	0.13	0.12	0.13	0.11	0.10	0.12	0.12	0.09	0.13	0.12						
120	0.16	0.12	0.11	0.09	0.13	0.10	0.12	0.11	0.08	0.12	0.11	0.15						
125	0.16	0.12	0.12	0.10	0.12	0.14	0.11	0.14	0.11	0.11	0.12	0.11						
130	0.11	0.09	0.12	0.11	0.09	0.13	0.14	0.12	0.08	0.13	0.12	0.11						
135	0.12	0.09	0.10	0.14	0.12	0.08	0.11	0.12	0.11	0.13	0.11	0.12						
140	0.11	0.11	0.11	0.13	0.15	0.10	0.11	0.09	0.12	0.13	0.11	0.13						
145	0.15	0.12	0.10	0.15	0.15	0.12	0.12	0.13	0.13	0.11	0.15	0.14						
150	0.13	0.10	0.12	0.10	0.14	0.11	0.11	0.14	0.12	0.12	0.11	0.14						
155	0.11	0.13	0.12	0.11	0.13	0.11	0.15	0.13	0.13	0.09	0.13	0.12						
160	0.11	0.13	0.13	0.16	0.10	0.12	0.15	0.15	0.17	0.13	0.10	0.15						
165	0.10	0.13	0.12	0.12	0.14	0.11	0.18	0.15	0.19	0.14	0.13	0.14						
170	0.12	0.09	0.10	0.11	0.13	0.12	0.14	0.17	0.13	0.15	0.13	0.14						
175	0.18	0.14	0.16	0.14	0.12	0.14	0.17	0.13	0.15	0.14	0.15	0.16						
180	0.16	0.17	0.12	0.16	0.12	0.16	0.15	0.11	0.13	0.13	0.17	0.12						

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Lanjunbao  
 Test Date: 2016-09-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
 Humidity: 65.0%  
 Test Distance: 2.500m [K=1.0094]  
 Remarks: LAMP: HL-A-3014H421W-S1-08-HR3 3000K  
 DC 24V  
 30minutes warm-up



## Photometric Data Table [cd]

G/C	0.0	30.0	60.0	90.0	120.0	150.0	180.0	210.0	240.0	270.0
0.0	46.06	45.96	46.11	45.94	46.06	45.97	46.06	45.96	46.11	45.94
3.0	45.91	45.54	45.63	45.35	45.70	45.75	46.03	46.21	46.45	46.32
6.0	45.58	44.97	44.95	44.65	45.15	45.34	45.89	46.32	46.56	46.51
9.0	45.10	44.23	44.13	43.75	44.43	44.74	45.51	46.24	46.49	46.56
12.0	44.42	43.28	43.17	42.68	43.52	44.01	45.01	45.97	46.26	46.36
15.0	43.61	42.20	41.99	41.43	42.48	43.07	44.24	45.52	45.82	45.99
18.0	42.62	40.95	40.75	40.06	41.25	41.99	43.43	44.87	45.19	45.42
21.0	41.46	39.60	39.32	38.59	39.90	40.76	42.39	44.10	44.46	44.71
24.0	40.26	38.18	37.79	36.94	38.42	39.44	41.25	43.17	43.52	43.79
27.0	38.85	36.57	36.09	35.25	36.86	37.96	39.99	42.08	42.38	42.75
30.0	37.35	34.88	34.30	33.43	35.19	36.34	38.48	40.79	41.16	41.55
33.0	35.77	33.07	32.48	31.52	33.36	34.67	36.96	39.40	39.77	40.15
36.0	34.10	31.24	30.59	29.57	31.49	32.84	35.28	37.86	38.25	38.73
39.0	32.29	29.33	28.56	27.56	29.55	30.97	33.53	36.27	36.63	37.15
42.0	30.46	27.34	26.52	25.45	27.51	29.06	31.74	34.53	34.88	35.48
45.0	28.56	25.31	24.42	23.27	25.46	27.05	29.83	32.70	33.08	33.67
48.0	26.56	23.27	22.28	21.02	23.26	25.02	27.90	30.85	31.20	31.76
51.0	24.52	21.13	20.08	18.76	21.11	22.90	25.86	28.89	29.24	29.84
54.0	22.45	18.94	17.83	16.39	18.85	20.75	23.78	26.88	27.16	27.83
57.0	20.25	16.71	15.53	13.98	16.50	18.55	21.66	24.81	25.04	25.73
60.0	18.10	14.46	13.12	11.36	14.19	16.28	19.42	22.58	22.88	23.62
63.0	15.90	12.23	10.68	8.500	11.73	13.98	17.18	20.42	20.63	21.44
66.0	13.66	10.02	8.115	5.661	9.088	11.75	14.94	18.26	18.42	19.21
69.0	11.44	7.841	5.248	3.516	6.247	9.413	12.62	15.93	16.15	16.92
72.0	9.182	5.649	2.991	2.362	3.721	7.132	10.24	13.61	13.82	14.62
75.0	6.994	3.476	1.819	1.499	2.242	4.871	7.947	11.26	11.48	12.23
78.0	4.866	1.452	0.9804	0.8391	1.317	2.608	5.773	8.951	8.986	9.576
81.0	2.945	0.6355	0.4335	0.2336	0.6019	1.127	3.828	6.743	6.354	6.699
84.0	1.406	0.1660	0.1498	0.2274	0.1569	0.3941	2.074	4.682	3.649	4.103
87.0	0.4321	0.1154	0.1581	0.1878	0.1269	0.1068	0.7706	2.648	2.071	2.673
90.0	0.1356	0.1435	0.1276	0.1788	0.1350	0.1282	0.1450	0.9582	1.064	1.628
93.0	0.1012	0.0962	0.1077	0.0551	0.1028	0.0885	0.0968	0.1276	0.1195	0.2361
96.0	0.1087	0.0967	0.0718	0.1062	0.0942	0.0962	0.1139	0.1212	0.1177	0.1530
99.0	0.1085	0.1055	0.1161	0.1218	0.0863	0.1030	0.1001	0.1220	0.1104	0.1021
102.0	0.1177	0.1342	0.1081	0.1308	0.1195	0.0784	0.0969	0.1065	0.0876	0.0874
105.0	0.1313	0.1517	0.1040	0.0992	0.1553	0.1109	0.1131	0.1308	0.1146	0.1319
108.0	0.0887	0.1100	0.0964	0.0836	0.1221	0.0751	0.0944	0.1189	0.1175	0.1437
111.0	0.1008	0.0873	0.1312	0.1200	0.1234	0.1246	0.1167	0.1019	0.1287	0.0846
114.0	0.1212	0.0956	0.1047	0.1401	0.1079	0.1302	0.1403	0.1450	0.1067	0.1095
117.0	0.1017	0.1373	0.0859	0.1280	0.1364	0.1139	0.1027	0.1437	0.1287	0.1270
120.0	0.1552	0.1220	0.1095	0.0911	0.1288	0.1034	0.1200	0.1149	0.0759	0.1189
123.0	0.0921	0.0983	0.1241	0.1113	0.1218	0.1153	0.1141	0.1144	0.0917	0.0966
126.0	0.1313	0.1054	0.1051	0.1282	0.1139	0.1217	0.1202	0.0905	0.1329	0.1210
129.0	0.1064	0.1201	0.1172	0.1153	0.0939	0.1341	0.1034	0.1088	0.1154	0.1132
132.0	0.0991	0.1063	0.0783	0.1100	0.1216	0.0928	0.1049	0.1177	0.1048	0.1228
135.0	0.1241	0.0906	0.1019	0.1371	0.1227	0.0802	0.1056	0.1182	0.1074	0.1259
138.0	0.1291	0.0746	0.1415	0.1139	0.1011	0.1078	0.1138	0.1310	0.0940	0.0912
141.0	0.1376	0.1175	0.0915	0.1220	0.1243	0.1111	0.1186	0.1288	0.0979	0.1330
144.0	0.1114	0.1116	0.0829	0.1396	0.1235	0.1639	0.1026	0.1367	0.1042	0.1266
147.0	0.1142	0.1339	0.1102	0.0952	0.1010	0.1038	0.1131	0.1369	0.1509	0.1268
150.0	0.1296	0.1019	0.1227	0.1017	0.1402	0.1092	0.1072	0.1414	0.1209	0.1249
153.0	0.1188	0.1204	0.1316	0.1142	0.1550	0.0963	0.1019	0.1466	0.1304	0.1309
156.0	0.1195	0.1129	0.1126	0.1425	0.1216	0.1289	0.1459	0.1087	0.1693	0.1342
159.0	0.0928	0.1251	0.1234	0.1371	0.1312	0.1061	0.1479	0.1390	0.1312	0.1023
162.0	0.1170	0.1191	0.1098	0.1132	0.1559	0.1183	0.1439	0.1339	0.1263	0.1473
165.0	0.1033	0.1313	0.1246	0.1236	0.1425	0.1105	0.1757	0.1475	0.1939	0.1414
168.0	0.1334	0.1409	0.1543	0.1208	0.1114	0.1004	0.1336	0.1663	0.1778	0.1450
171.0	0.1111	0.0812	0.1071	0.1061	0.1127	0.1233	0.1363	0.1585	0.1278	0.1400
174.0	0.1342	0.0889	0.1500	0.1167	0.1233	0.1405	0.1239	0.1511	0.1280	0.1264
177.0	0.1434	0.1319	0.0919	0.1011	0.1792	0.1238	0.1152	0.1483	0.1506	0.1506
180.0	0.1552	0.1725	0.1228	0.1551	0.1241	0.1634	0.1526	0.1114	0.1256	0.1259
G/C	300.0	330.0								
0.0	46.06	45.97								
3.0	46.25	46.07								
6.0	46.33	45.98								
9.0	46.18	45.73								
12.0	45.81	45.28								
15.0	45.30	44.65								
18.0	44.61	43.83								
21.0	43.71	42.87								
24.0	42.67	41.80								
27.0	41.49	40.59								
30.0	40.19	39.19								

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Lanjunbao  
Test Date:2016-09-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
Humidity:65.0%  
Test Distance:2.500m [K=1.0094]  
Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 3000K  
DC 24V  
30minutes warm-up



## Photometric Data Table [cd]

33.0	38.77	37.70
36.0	37.20	36.13
39.0	35.53	34.41
42.0	33.79	32.63
45.0	31.94	30.77
48.0	30.00	28.86
51.0	27.98	26.90
54.0	25.90	24.85
57.0	23.85	22.76
60.0	21.71	20.60
63.0	19.51	18.44
66.0	17.23	16.21
69.0	14.99	14.00
72.0	12.63	11.74
75.0	10.26	9.489
78.0	7.720	7.288
81.0	4.933	5.150
84.0	2.728	3.144
87.0	1.641	1.294
90.0	0.8070	0.4695
93.0	0.1024	0.0948
96.0	0.1243	0.1436
99.0	0.1182	0.1369
102.0	0.1223	0.1304
105.0	0.1266	0.0920
108.0	0.1141	0.1348
111.0	0.1060	0.1499
114.0	0.1243	0.1427
117.0	0.1123	0.1181
120.0	0.1135	0.1475
123.0	0.1079	0.1057
126.0	0.0911	0.1276
129.0	0.1271	0.1128
132.0	0.1093	0.0739
135.0	0.1086	0.1172
138.0	0.1375	0.1228
141.0	0.1338	0.1299
144.0	0.1342	0.1253
147.0	0.1071	0.1084
150.0	0.1096	0.1400
153.0	0.1389	0.1419
156.0	0.1052	0.1290
159.0	0.1356	0.1426
162.0	0.1375	0.1520
165.0	0.1254	0.1384
168.0	0.1489	0.1535
171.0	0.1674	0.1518
174.0	0.1287	0.1134
177.0	0.1353	0.1794
180.0	0.1741	0.1180

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Lanjunbao  
 Test Date:2016-09-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-R3000(2M2D) SYSTEM V1.0.203  
 Humidity:65.0%  
 Test Distance:2.500m [K=1.0094]  
 Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 3000K  
 DC 24V  
 30minutes warm-up