

**APPLICATION FOR TEST REPORT**

**On Behalf of**

**Interlight Enjoy Innovation B.V.**

**LED SMD Easy fit Downlight**

**Model No.: IL-ED8K4D**

**Prepared for :** Interlight Enjoy Innovation B.V.  
Smalriemseweg 6,4112 NC Beusichem,The Netherlands


**Prepared By :** Shenzhen TCT Testing Technology Co., Ltd.  
1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong,  
Baoan District, Shenzhen, Guangdong, China

**Date of Test:** Jan. 22, to Jan. 24, 2019

**Date of Report:** Jan. 24, 2019

**Report Number:** TCT190122S013

*Note: This report shall not be reproduced except in full, without the written approval of Shenzhen TCT Testing Technology Co., Ltd. This document may be altered or revised by Shenzhen TCT Testing Technology Co., Ltd. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.*

<p><b>Test Report</b> <b>IESNA LM 79: 2008</b> <b>ELECTRICAL AND PHOTOMETRIC MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS</b></p>	
Report reference No .....	TCT190122S013
Tested by (+ signature) .....	Moon Ding
Approved by (+ signature) .....	Thomas
Date of issue .....	Jan. 24, 2019
Testing Laboratory Name .....	Shenzhen TCT Testing Technology Co., Ltd.
Address .....	1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China
Testing location .....	CBTL <input type="checkbox"/> CCATL <input type="checkbox"/> SMT <input type="checkbox"/> TMP <input type="checkbox"/>
Address .....	Same as above.
Applicant's Name.....	Interlight Enjoy Innovation B.V.
Address .....	Smalriemseweg 6,4112 NC Beusichem, The Netherlands
Manufacturer .....	GMIL584
Address .....	IAGFC2129
Test item description .....	LED SMD Easy fit Downlight
Trademark .....	
Model and/or type reference .....	IL-ED8K4D
Rating .....	220-240VAC, 50/60Hz, 20W

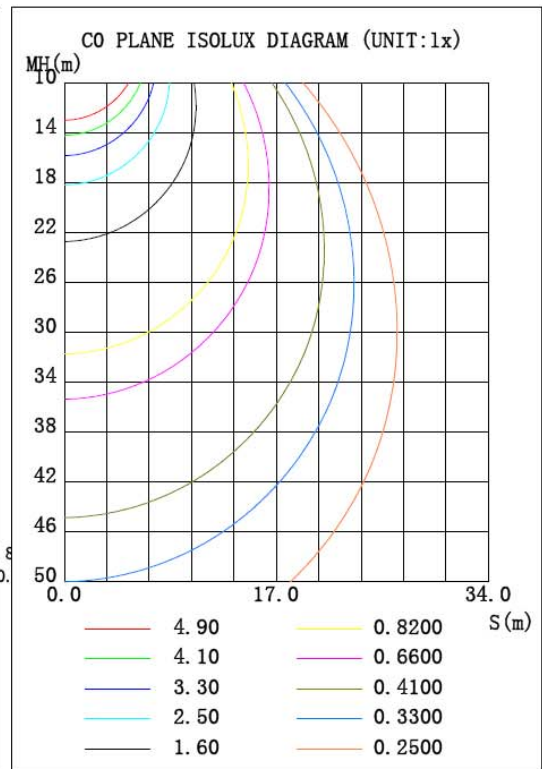
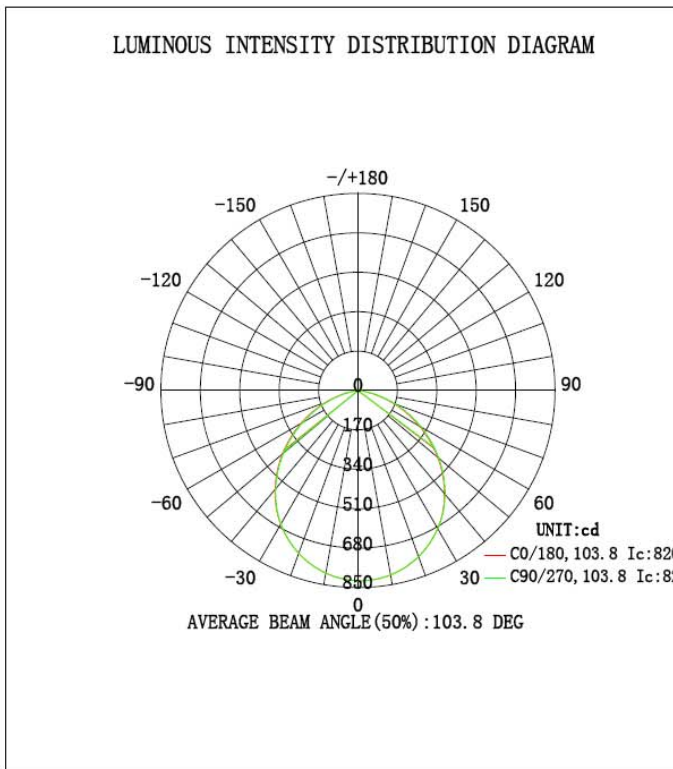


IES LM-79-08			
Clause	Requirement – Test	Measuring result – Remark	Verdict
2.0	Ambient Conditions		P
2.1	General		P
2.2	Air Temperature		P
2.3	Thermal Condition for Mounting SSL Products		P
2.4	Air Movement		P
3.0	Power Supply Characteristics		P
3.1	Waveshape of AC power supply		P
3.2	Voltage regulation		P
4.0	Seasoning of SSL Product		N/A
	No seasoning of SSL product		P
5.0	Stabilisation of SSL Product		P
	SSL product has sufficiently satbilised before measurment		P
6.0	Operation Orientation		P
	SSL product shall be stabilized and measured in intended operating orientation	As normal working	P
7.0	Electrical Settings		P
	SSL product shall be operated at rated voltage		P
	SSL product with dimming capability are tested at maximum input power condition		N/A
	SSL product with different modes are measured in all relvant modes		N/A
8.0	Electrical Instrumenttions		P
8.1	Circuits		P
8.2	Uncertainties		N/A
9.0	Testmethodes for Luminous Flux measurment		P
9.1	Integrating sphere with a spectroradiometer (Sphere-spectroradiometer system)		N/A
9.2	Integrating sphere with a photometer head (Sphere-photometer system)		N/A
9.3	Goniophotometer		P
10.0	Luminous Intensity Distribution		P
	Reporting acc. to IEC LM-63		P
11.0	Luminous Efficay		P
	Calculation		P
12.0	Test Methodes for Color Characteristics of SSL Products		P
	Measurments		P
13.0	Uncertainty statement		N/A

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.3V I:0.0907A P:19.66W PF:0.9842 Freq:50.00Hz Lamp Flux:2066.77x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	IL-ED8K4D	Imax (cd)	821.1	S/MH(C0/180)	1.24
NOMINAL POWER (W)	20	LOR (%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE (V)	220	TOTAL FLUX(1m)	2066.8	$\eta$ UP, DN(C0-180)	0.0, 48.5
NOMINAL FLUX(1m)	2066.77	CIE CLASS	DIRECT	$\eta$ UP, DN(C180-360)	0.1, 51.4
LAMPS INSIDE	1	$\eta$ up (%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	$\eta$ down (%)	99.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Near  
Test Date:2018-03-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:2.686m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	813.9	813.7	814.2	815.9	818.4	819.3	818.2	816.2	0- 5	19.56	19.56	0.95,0.95
10	799.8	798.4	799.7	803.4	807.7	809.7	807.9	804.0	5- 10	57.95	77.51	3.75,3.75
15	777.7	775.4	777.4	782.6	788.9	791.7	789.3	783.6	10- 15	94.14	171.7	8.31,8.31
20	747.5	744.8	747.2	753.8	762.3	765.9	762.8	756.0	15- 20	126.8	298.4	14.4,14.4
25	710.7	707.0	709.6	717.7	728.4	732.4	729.1	720.7	20- 25	154.6	453.0	21.9,21.9
30	667.2	662.3	665.1	674.7	686.8	691.9	688.5	678.6	25- 30	176.7	629.7	30.5,30.5
35	615.6	609.7	612.2	623.0	638.0	644.3	640.8	629.7	30- 35	192.0	821.7	39.8,39.8
40	556.9	550.0	552.1	563.7	580.6	588.2	584.5	572.7	35- 40	199.4	1021	49.4,49.4
45	493.1	485.1	486.7	498.9	517.0	525.8	522.7	510.3	40- 45	198.7	1220	59.59
50	425.6	416.9	418.0	430.0	449.0	458.6	456.1	443.6	45- 50	190.3	1410	68.2,68.2
55	355.6	345.9	346.4	358.2	377.9	388.1	386.5	374.3	50- 55	174.7	1585	76.7,76.7
60	285.0	275.0	274.3	285.8	305.3	315.8	315.1	303.3	55- 60	152.8	1737	84.1,84.1
65	214.5	204.0	202.9	213.2	232.7	243.8	244.0	233.4	60- 65	125.9	1863	90.2,90.2
70	147.0	136.3	134.0	143.2	161.1	172.3	173.4	163.9	65- 70	95.36	1959	94.8,94.8
75	82.77	72.70	70.09	77.31	93.76	104.7	106.7	98.49	70- 75	62.97	2022	97.8,97.8
80	28.28	20.79	18.66	22.90	35.34	44.32	46.60	40.83	75- 80	31.51	2053	99.3,99.3
85	7.447	5.490	4.844	5.952	8.735	10.78	11.44	10.25	80- 85	9.320	2063	99.8,99.8
90	0.0573	0.0575	0.0576	0.0571	0.0567	0.0540	0.0512	0.0239	85- 90	1.878	2064	99.9,99.9
95	0.0641	0.0727	0.0716	0.0687	0.0662	0.0615	0.0610	0.0638	90- 95	0.0385	2064	99.9,99.9
100	0.0851	0.0882	0.0887	0.0861	0.0802	0.0760	0.0756	0.0793	95-100	0.0404	2064	99.9,99.9
105	0.1037	0.1067	0.1069	0.1057	0.0947	0.0904	0.0914	0.0958	100-105	0.0484	2065	99.9,99.9
110	0.1309	0.1293	0.1343	0.1295	0.1229	0.1148	0.1155	0.1226	105-110	0.0582	2065	99.9,99.9
115	0.1721	0.1636	0.1656	0.1627	0.1652	0.1523	0.1540	0.1665	110-115	0.0724	2065	99.9,99.9
120	0.2197	0.2054	0.2043	0.2012	0.2184	0.2048	0.2101	0.2233	115-120	0.0908	2065	99.9,99.9
125	0.2764	0.2555	0.2541	0.2534	0.2921	0.2777	0.2779	0.2971	120-125	0.1126	2065	99.9,99.9
130	0.3307	0.3121	0.3144	0.3060	0.3715	0.3576	0.3566	0.3772	125-130	0.1348	2065	99.9,99.9
135	0.4383	0.4203	0.4184	0.4081	0.4653	0.4571	0.4573	0.4868	130-135	0.1581	2065	99.9,99.9
140	0.5298	0.5428	0.5331	0.5102	0.6018	0.6254	0.6309	0.6691	135-140	0.1894	2065	99.9,99.9
145	0.6128	0.6560	0.6411	0.6039	0.8010	0.8493	0.8839	0.8968	140-145	0.2208	2066	99.9,99.9
150	0.6836	0.7498	0.7125	0.6819	1.015	1.093	1.132	1.134	145-150	0.2428	2066	100,100
155	0.7812	0.8511	0.7883	0.7928	1.223	1.342	1.361	1.364	150-155	0.2491	2066	100,100
160	0.8810	0.9338	0.8607	0.8850	1.465	1.539	1.555	1.541	155-160	0.2399	2066	100,100
165	0.9303	0.9705	0.8837	0.8847	1.556	1.625	1.651	1.618	160-165	0.2036	2067	100,100
170	0.9997	1.014	0.9091	0.9092	1.564	1.545	1.544	1.546	165-170	0.1495	2067	100,100
175	1.117	1.109	0.9545	1.019	1.462	1.430	1.382	1.421	170-175	0.0884	2067	100,100
180	1.307	1.274	1.173	1.222	1.312	1.276	1.176	1.226	175-180	0.0296	2067	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

Conical surface Flux(90deg): 1219.8 lm

%lum = 59.0%

%lamp = 59.0%

Conical surface Flux(120deg): 1737.5 lm

%lum = 84.1%

%lamp = 84.1%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Near  
Test Date:2018-03-27

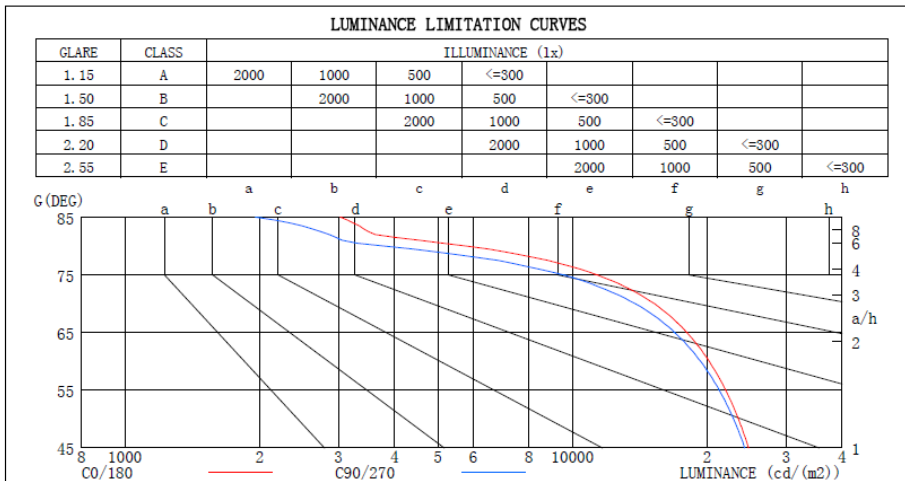
γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:2.686m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

LUMINANCE LIMITATION CURVES

Test:U:220.3V I:0.0907A P:19.66W PF:0.9842 Freq:50.00Hz Lamp Flux:2066.77x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. :	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3031	1958
80	5777	3786
75	11344	9541
70	15250	13808
65	18006	16914
60	20218	19332
55	21994	21276
50	23489	22914
45	24736	24249

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Near  
Test Date:2018-03-27

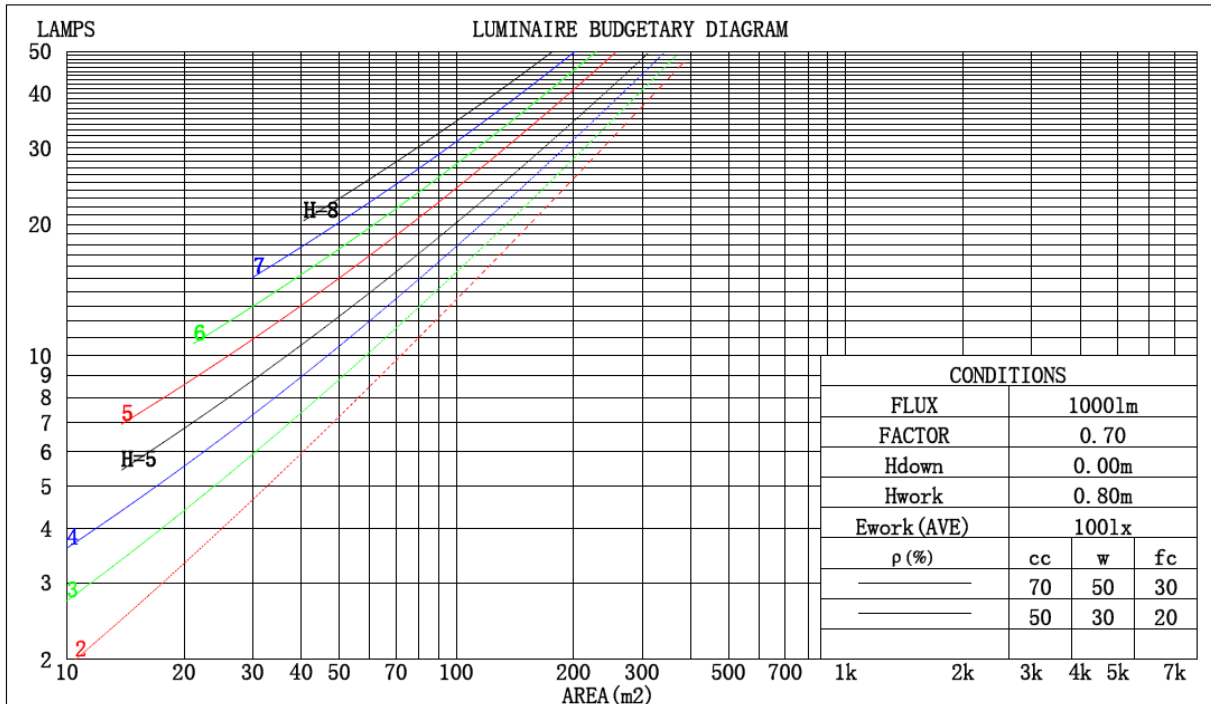
γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:2.686m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.3V I:0.0907A P:19.66W PF:0.9842 Freq:50.00Hz Lamp Flux:2066.77x1 lm																
NAME: 1					TYPE:					WEIGHT:						
SPEC.:					DIM.:					SERIAL No.:						
MFR.:					SUR.:					Shielding 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						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	.00
1.0	1.06	1.02	.98	1.03	.90	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.86	.81	.91	.85	.80	.87	.83	.78	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.68	.78	.71	.66	.75	.70	.65	.72	.68	.64	.62
4.0	.73	.65	.58	.72	.64	.58	.69	.62	.57	.67	.61	.56	.65	.60	.56	.53
5.0	.65	.57	.50	.64	.56	.50	.62	.55	.50	.60	.54	.49	.58	.53	.49	.46
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.44	.55	.48	.43	.53	.47	.43	.41
7.0	.54	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.38	.49	.43	.38	.36
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.34	.32
9.0	.45	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10.0	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.38	.32	.28	.27



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Near  
Test Date:2018-03-27

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:2.686m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu



WEC AND CCEC

Test:U:220.3V I:0.0907A P:19.66W PF:0.9842 Freq:50.00Hz Lamp Flux:2066.77x1 lm																	
NAME: 1						TYPE:						WEIGHT:					
SPEC.:						DIM.:						SERIAL No.:					
MFR.:						SUR.:						Shielding Angle:					

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	.278	.158	.050	.271	.154	.049	.258	.148	.047	.246	.142	.045	.234	.136	.044			
2.0	.269	.147	.045	.263	.145	.045	.251	.140	.043	.240	.135	.042	.230	.130	.041			
3.0	.253	.134	.040	.247	.132	.040	.237	.128	.039	.228	.125	.038	.219	.121	.037			
4.0	.236	.123	.036	.231	.121	.036	.222	.118	.035	.214	.115	.035	.206	.112	.034			
5.0	.220	.112	.032	.216	.111	.032	.207	.108	.032	.200	.106	.031	.193	.103	.031			
6.0	.205	.103	.029	.201	.102	.029	.194	.100	.029	.187	.097	.029	.181	.095	.028			
7.0	.192	.095	.027	.188	.094	.027	.182	.092	.027	.176	.090	.026	.170	.089	.026			
8.0	.180	.088	.025	.177	.087	.025	.171	.086	.024	.166	.084	.024	.161	.083	.024			
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.156	.078	.022	.152	.077	.022			
10.0	.159	.076	.021	.157	.076	.021	.152	.075	.021	.148	.073	.021	.144	.072	.021			

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																		
1.0	.191	.191	.191	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021			
2.0	.179	.157	.138	.153	.135	.119	.105	.093	.082	.060	.054	.048	.019	.017	.015			
3.0	.170	.133	.102	.146	.114	.088	.100	.079	.061	.058	.046	.036	.018	.015	.012			
4.0	.162	.115	.078	.139	.099	.067	.095	.069	.047	.055	.040	.028	.018	.013	.009			
5.0	.154	.102	.061	.133	.088	.053	.091	.061	.037	.053	.036	.022	.017	.012	.007			
6.0	.147	.091	.050	.126	.079	.043	.087	.055	.030	.050	.032	.018	.016	.011	.006			
7.0	.140	.083	.041	.121	.072	.036	.083	.050	.025	.048	.029	.015	.016	.010	.005			
8.0	.134	.076	.035	.115	.066	.031	.079	.046	.022	.046	.027	.013	.015	.009	.004			
9.0	.127	.070	.030	.110	.061	.026	.076	.043	.019	.044	.025	.011	.014	.008	.004			
10.0	.122	.065	.027	.105	.056	.023	.073	.040	.017	.042	.023	.010	.014	.008	.003			
	.116	.061	.024	.100	.053	.021	.069	.037	.015	.041	.022	.009	.013	.007	.003			

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Near  
Test Date:2018-03-27

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:2.686m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu



UGR(Unified Glare Rating) Table

Test:U:220.3V I:0.0907A P:19.66W PF:0.9842 Freq:50.00Hz Lamp Flux:2066.77x1 lm										
NAME: 1				TYPE:				WEIGHT:		
SPEC.:				DIM.:				SERIAL No.:		
MFR.:				SUR.:				Shielding 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	20.8	22.3	21.1	22.5	22.7	20.7	22.1	20.9	22.3	22.5
3H	21.9	23.2	22.2	23.4	23.7	21.6	23.0	21.9	23.2	23.4
4H	22.1	23.4	22.4	23.7	23.9	21.8	23.1	22.1	23.4	23.6
6H	22.2	23.4	22.5	23.6	23.9	21.8	23.0	22.2	23.3	23.6
8H	22.2	23.3	22.5	23.6	23.9	21.8	22.9	22.1	23.2	23.5
12H	22.1	23.2	22.5	23.5	23.8	21.8	22.9	22.1	23.1	23.4
4H 2H	21.2	22.5	21.6	22.8	23.0	21.1	22.4	21.4	22.6	22.9
3H	22.4	23.5	22.8	23.8	24.1	22.2	23.3	22.6	23.6	23.9
4H	22.8	23.8	23.1	24.1	24.4	22.5	23.5	22.9	23.8	24.1
6H	22.9	23.8	23.3	24.1	24.5	22.5	23.4	22.9	23.8	24.1
8H	22.8	23.7	23.3	24.0	24.4	22.5	23.3	22.9	23.7	24.1
12H	22.8	23.6	23.2	24.0	24.4	22.5	23.2	22.9	23.6	24.0
8H 4H	22.8	23.6	23.2	24.0	24.4	22.6	23.4	23.0	23.7	24.1
6H	22.9	23.6	23.4	24.0	24.5	22.6	23.3	23.1	23.7	24.1
8H	22.9	23.5	23.4	24.0	24.4	22.6	23.2	23.1	23.6	24.1
12H	22.9	23.4	23.4	23.9	24.4	22.6	23.1	23.1	23.5	24.0
12H 4H	22.8	23.5	23.2	23.9	24.3	22.5	23.3	22.9	23.7	24.1
6H	22.9	23.5	23.4	23.9	24.4	22.6	23.2	23.1	23.6	24.1
8H	22.9	23.4	23.4	23.9	24.4	22.6	23.1	23.1	23.5	24.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.5 / - 0.5					+ 0.5 / - 0.5				

CIE Pub.117, 2067 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 2.5$ )

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Near  
Test Date:2018-03-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:2.686m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

UTILIZATION FACTORS TABLE

Test:U:220.3V I:0.0907A P:19.66W PF:0.9842 Freq:50.00Hz Lamp Flux:2066.77x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding 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	60	49	42	59	49	42	58	48	42	36
0.80	70	59	52	69	59	52	68	58	52	45
1.00	79	68	61	78	68	61	75	69	61	54
1.25	86	76	69	84	75	69	82	74	68	61
1.50	91	82	75	89	81	75	86	79	74	66
2.00	97	89	84	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	78
3.00	104	98	93	102	96	92	98	93	90	81
4.00	108	103	98	105	101	97	101	97	94	86
5.00	110	106	102	107	104	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004	Suspended						SHRNOM = 1.25			

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Near  
Test Date:2018-03-27

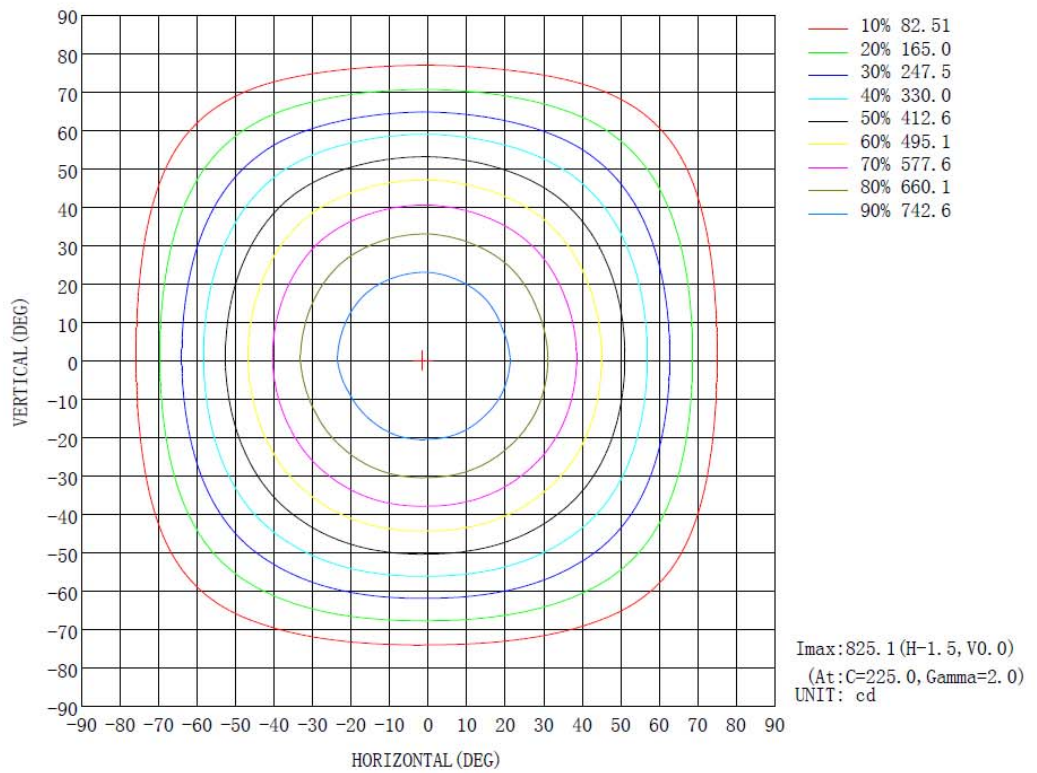
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:2.686m [K=1.0000]  
Remarks: File No. : WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ISOCANDELA DIAGRAM

Test:U:220.3V I:0.0907A P:19.66W PF:0.9842 Freq:50.00Hz Lamp Flux:2066.77x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. :	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Near  
Test Date:2018-03-27

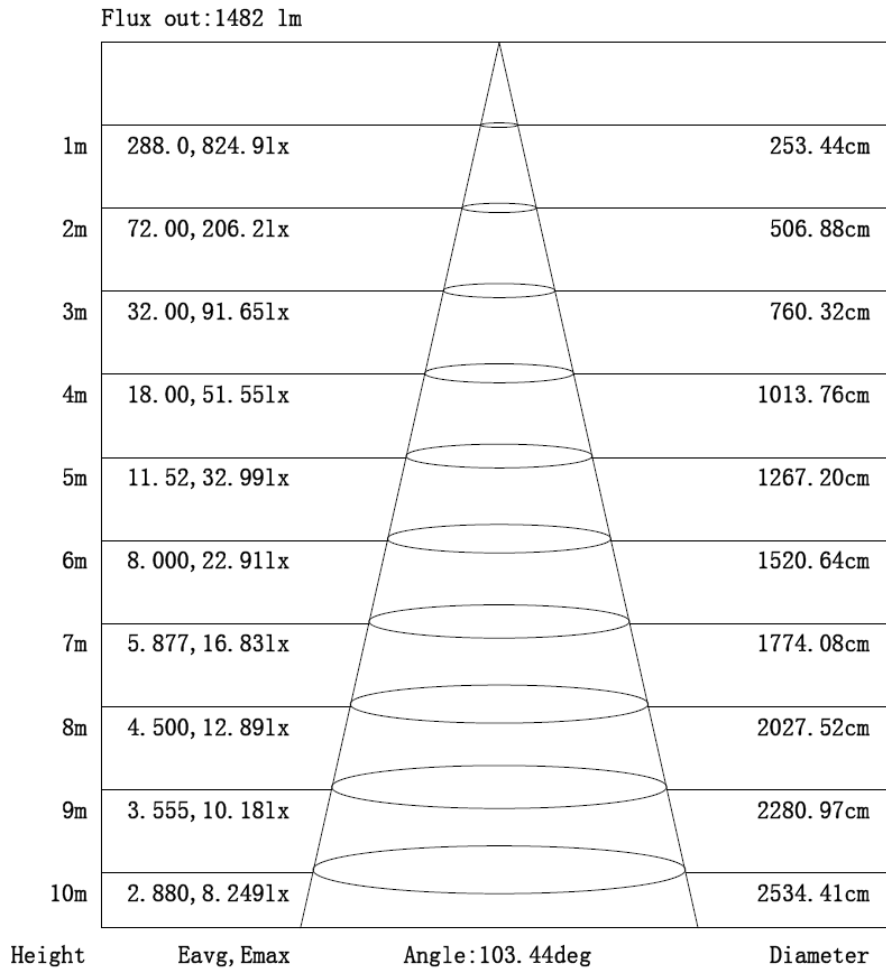
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:2.686m [K=1.0000]  
Remarks: File No. : WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

AAI Figure

Test:U:220.3V I:0.0907A P:19.66W PF:0.9842 Freq:50.00Hz Lamp Flux:2066.77x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. :	Shielding 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: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Near  
Test Date:2018-03-27

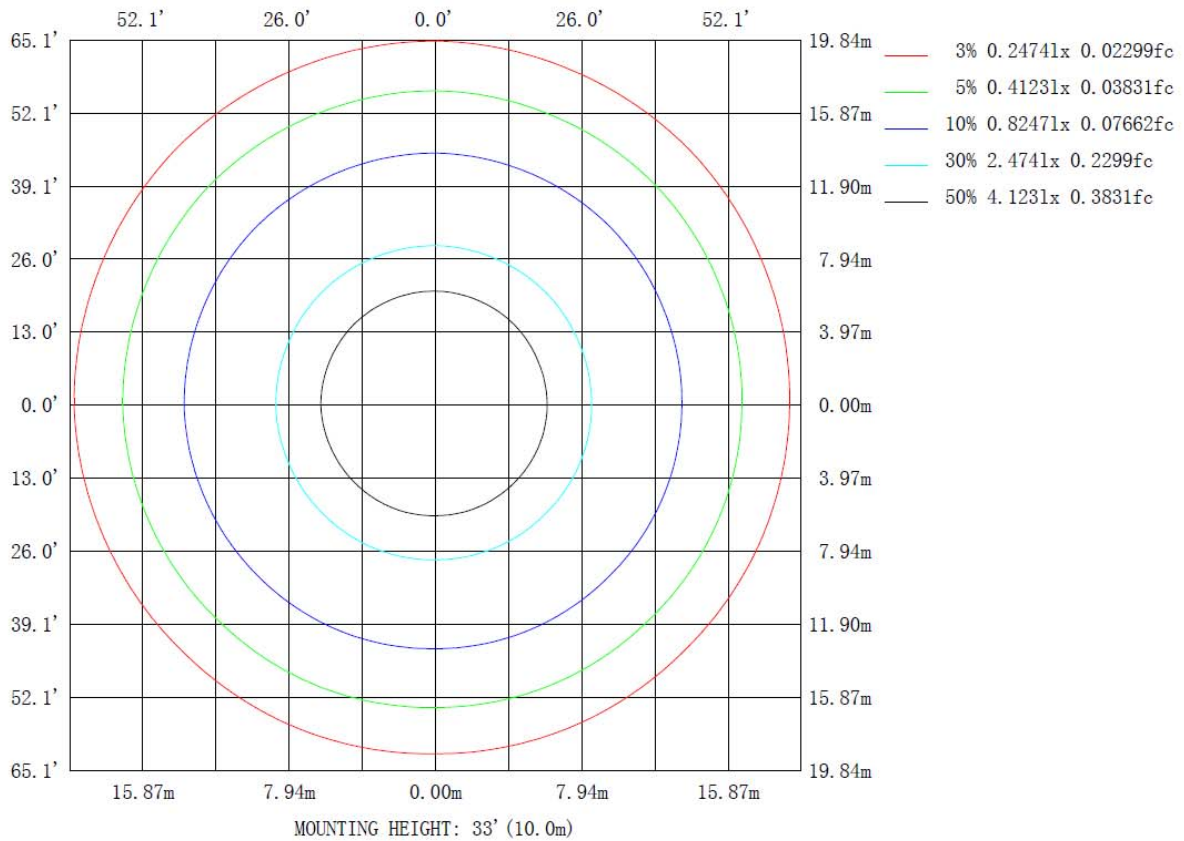
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:2.686m [K=1.0000]  
Remarks: File No. : WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ISOLUX DIAGRAM

Test:U:220.3V I:0.0907A P:19.66W PF:0.9842 Freq:50.00Hz Lamp Flux:2066.77x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MPR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Near  
Test Date: 2018-03-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity: 65.0%  
Test Distance: 2.686m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

LED Avg. L Report

Test:U:220.3V I:0.0907A P:19.66W PF:0.9842 Freq:50.00Hz Lamp Flux:2066.77x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65) av	18672
L_0~180(75) av	12034
L_0~180(85) av	3276
L_90~270(65) av	18657
L_90~270(75) av	12050
L_90~270(85) av	3297
L_45(65) av	18669
L_45(75) av	12038
L_45(85) av	3286

Standard: GB/T 29293-2012

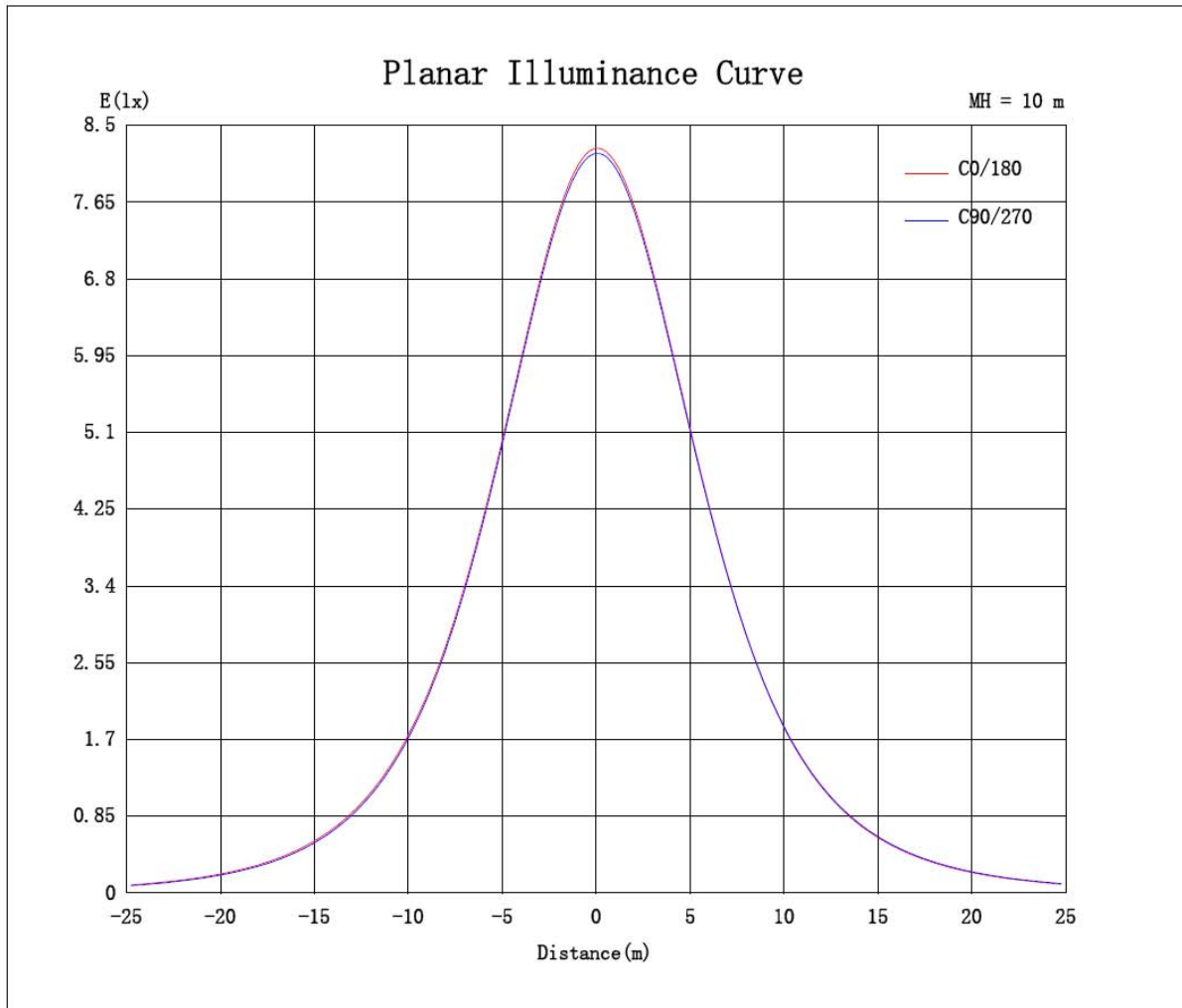
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Near  
Test Date:2018-03-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:2.686m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Near  
Test Date: 2018-03-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity: 65.0%  
Test Distance: 2.686m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.0907A P:19.66W PF:0.9842 Freq:50.00Hz Lamp Flux:2066.77x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. :	Shielding Angle:

Table--1 UNIT: cd

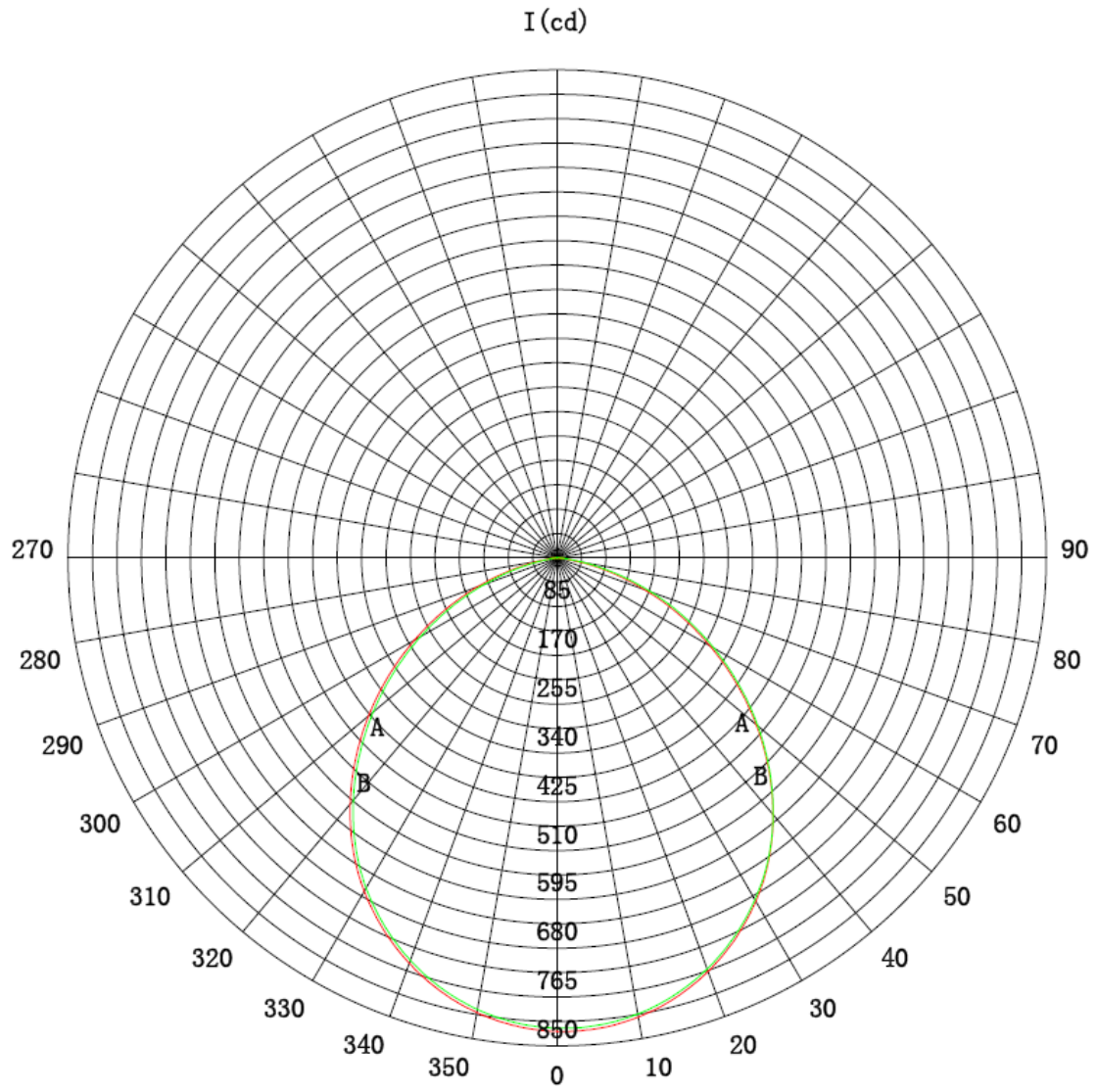
C (DEG) \ γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820			
5	814	814	814	814	814	815	816	817	818	819	819	818	818	817	816	815			
10	800	799	798	799	800	802	803	806	808	808	810	808	808	805	804	801			
15	778	777	775	777	777	781	783	786	789	790	792	790	789	786	784	780			
20	748	747	745	746	747	751	754	759	762	763	766	764	763	758	756	751			
25	711	709	707	708	710	714	718	723	728	730	732	730	729	724	721	715			
30	667	665	662	664	665	671	675	681	687	689	692	690	688	683	679	672			
35	616	613	610	611	612	618	623	631	638	640	644	642	641	634	630	622			
40	557	555	550	551	552	559	564	573	581	583	588	586	585	577	573	564			
45	493	490	485	486	487	494	499	508	517	520	526	523	523	515	510	501			
50	426	422	417	418	418	425	430	440	449	453	459	456	456	448	444	434			
55	356	352	346	347	346	353	358	369	378	382	388	386	386	379	374	364			
60	285	281	275	275	274	281	286	296	305	309	316	315	315	308	303	294			
65	215	211	204	204	203	209	213	223	233	237	244	243	244	237	233	224			
70	147	142	136	135	134	139	143	152	161	166	172	173	173	168	164	156			
75	82.8	78.4	72.7	71.1	70.1	73.8	77.3	84.9	93.8	98.5	105	106	107	102	98.5	91.0			
80	28.3	26.5	20.8	22.0	18.7	23.3	22.9	28.5	35.3	38.8	44.3	45.1	46.6	43.1	40.8	34.8			
85	7.45	6.59	5.49	5.17	4.84	5.43	5.95	7.19	8.74	9.63	10.8	11.1	11.4	10.8	10.2	8.98			
90	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.09	0.45	0.63	1.01	0.46	0.22	0.07			
95	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.06	0.07	0.06	0.07	0.06	0.07			
100	0.09	0.08	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08			
105	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.10	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10			
110	0.13	0.12	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.12	0.12	0.13			
115	0.17	0.16	0.16	0.16	0.17	0.16	0.16	0.16	0.17	0.16	0.15	0.16	0.15	0.16	0.17	0.17			
120	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.21	0.22	0.23	0.20	0.21	0.21	0.22	0.22	0.23			
125	0.28	0.26	0.26	0.27	0.25	0.25	0.25	0.26	0.29	0.30	0.28	0.29	0.28	0.30	0.30	0.31			
130	0.33	0.32	0.31	0.34	0.31	0.31	0.31	0.32	0.37	0.38	0.36	0.37	0.36	0.38	0.38	0.38			
135	0.44	0.43	0.42	0.42	0.42	0.41	0.41	0.42	0.47	0.48	0.46	0.46	0.46	0.48	0.49	0.49			
140	0.53	0.54	0.54	0.54	0.53	0.53	0.51	0.50	0.60	0.62	0.63	0.63	0.63	0.66	0.67	0.65			
145	0.61	0.65	0.66	0.67	0.64	0.63	0.60	0.59	0.80	0.84	0.85	0.87	0.88	0.91	0.90	0.86			
150	0.68	0.74	0.75	0.74	0.71	0.69	0.68	0.66	1.02	1.06	1.09	1.11	1.13	1.14	1.13	1.10			
155	0.78	0.85	0.85	0.84	0.79	0.79	0.79	0.76	1.22	1.28	1.34	1.35	1.36	1.37	1.36	1.36			
160	0.88	0.93	0.93	0.91	0.86	0.87	0.89	0.86	1.46	1.48	1.54	1.53	1.55	1.59	1.54	1.52			
165	0.93	0.98	0.97	0.91	0.88	0.87	0.88	0.89	1.56	1.55	1.62	1.62	1.65	1.63	1.62	1.59			
170	1.00	1.03	1.01	0.94	0.91	0.86	0.91	0.95	1.56	1.54	1.54	1.51	1.54	1.51	1.55	1.55			
175	1.12	1.13	1.11	1.04	0.95	0.97	1.02	1.08	1.46	1.46	1.43	1.36	1.38	1.37	1.42	1.43			
180	1.31	1.30	1.27	1.20	1.17	1.15	1.22	1.27	1.31	1.30	1.28	1.20	1.18	1.16	1.23	1.27			

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Near  
Test Date:2018-03-27

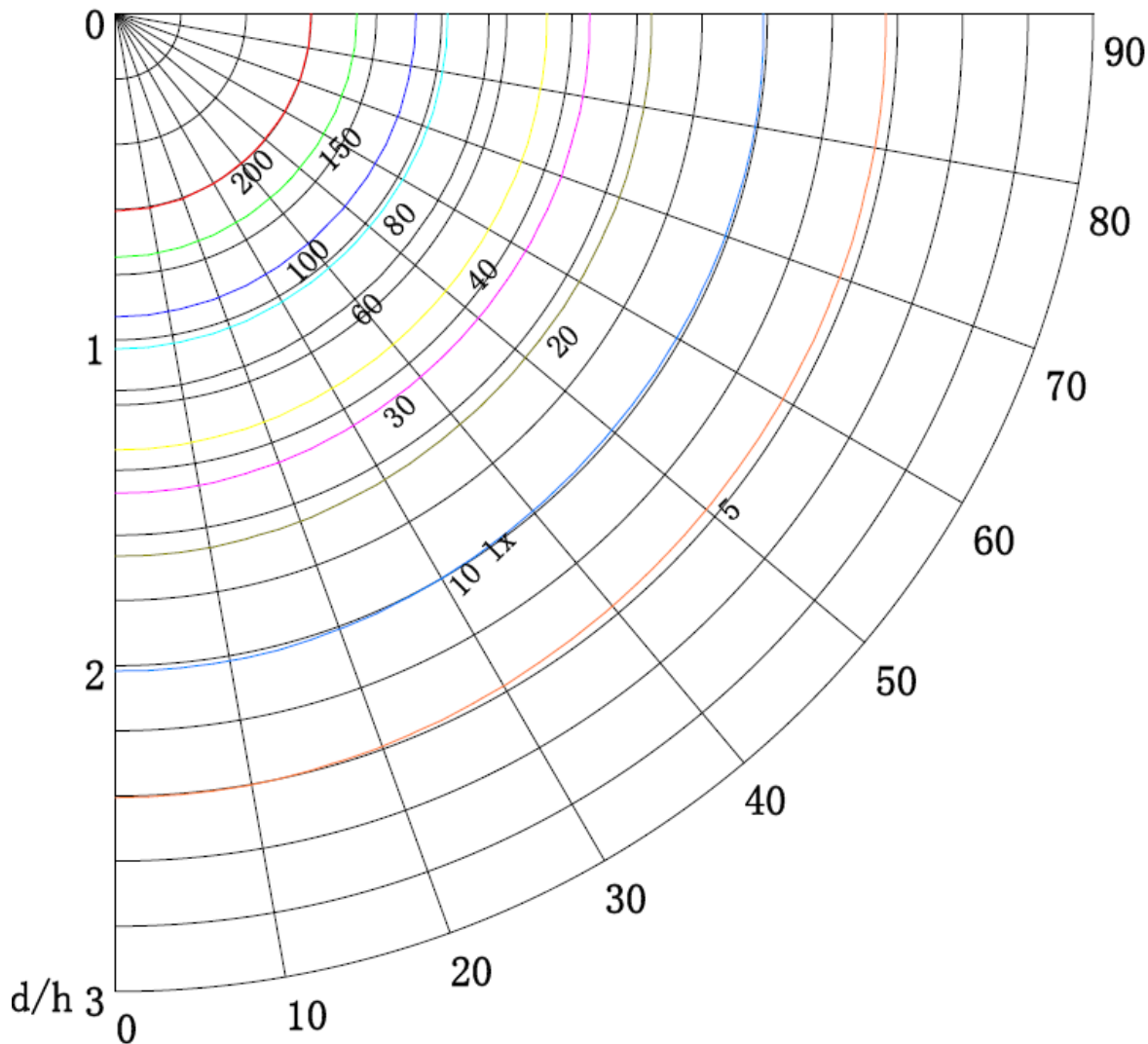
γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:2.686m [K=1.0000]  
Remarks: File No. : WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

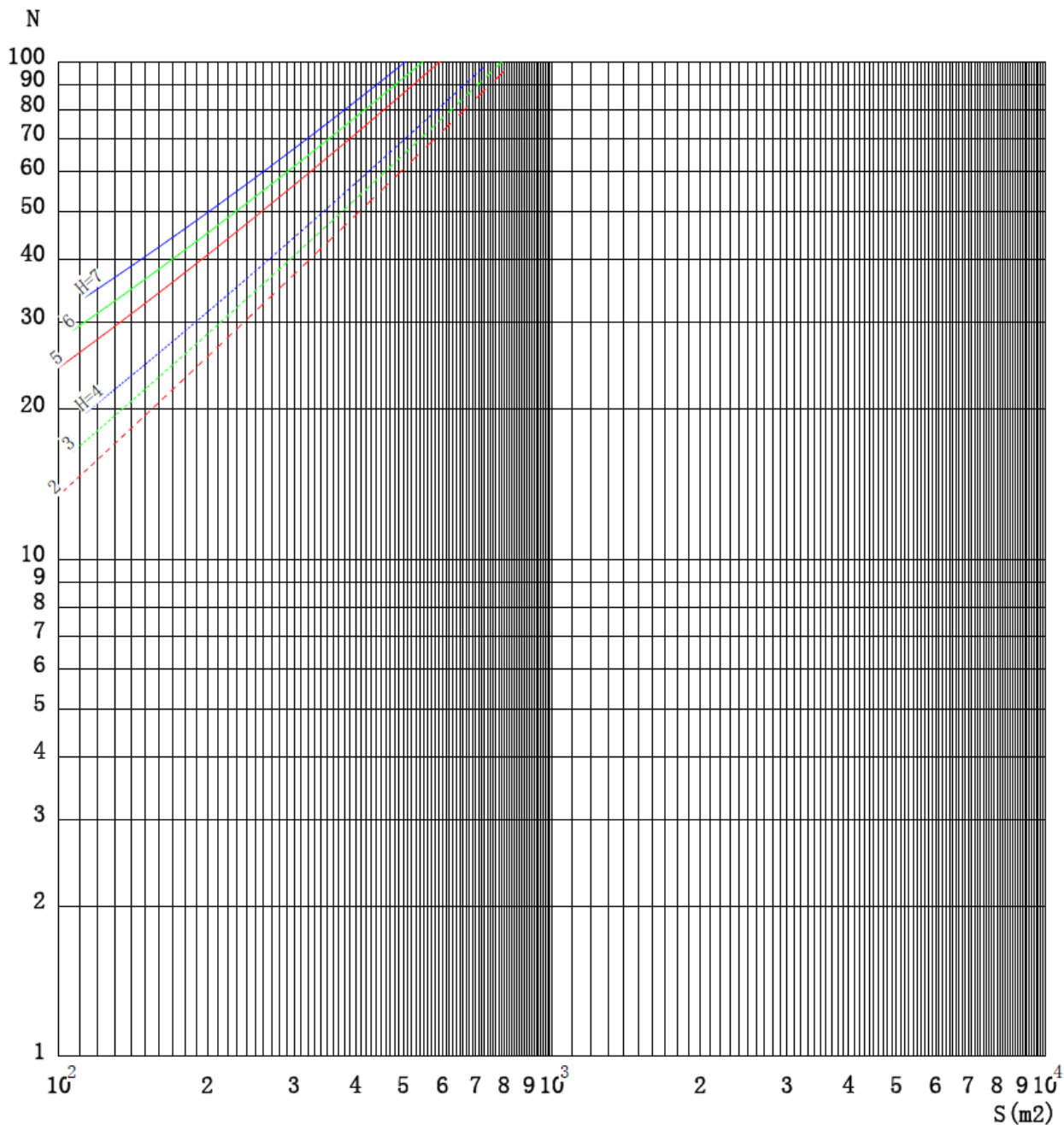


1000 lm       $K = 1$



$F = 1000 \text{ lm}$   
 $K = 0.7$   
 $H_{cc} = 0.8 \text{ m}$   
 $H_{fc} = 0.0 \text{ m}$   
 $E_{ave} = 100 \text{ lx}$

	$P_{cc}$	$P_w$	$P_{fc}$
————	70	50	30
————	50	30	20



**Photo documentation:**

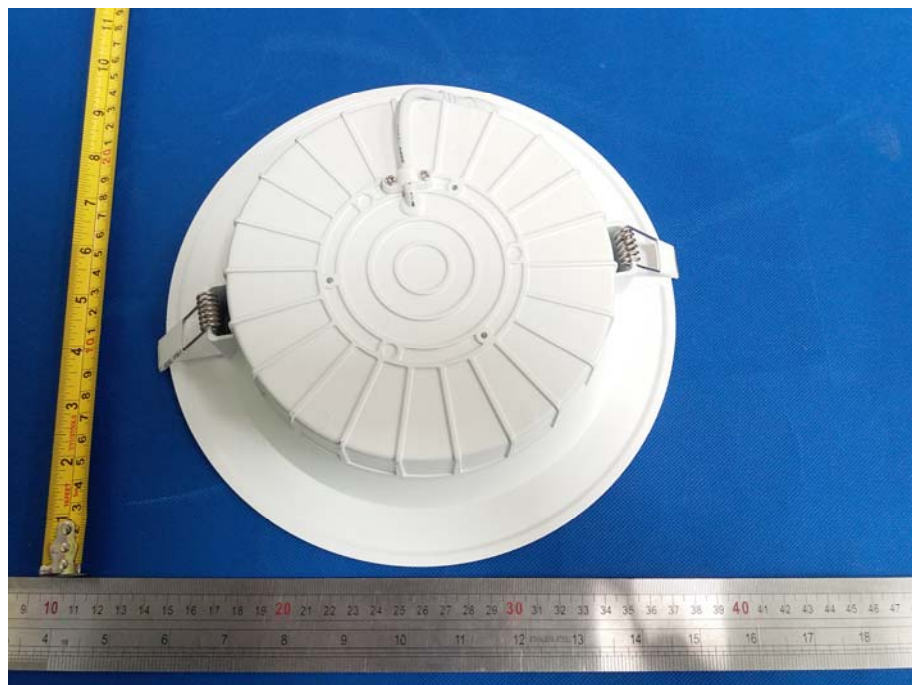
**Photo 1**

- General
- front
- rear
- right side
- left side
- top
- bottom
- internal



**Photo 2**

- General
- front
- rear
- right side
- left side
- top
- bottom
- internal



**\*\*\*End of the report\*\*\***