

**APPLICATION FOR TEST REPORT**

**On Behalf of**

**Interlight Enjoy Innovation B.V.**

**LED DOB Floodlight**

**Model No.: IL-FB220WK4**

**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. 25, to Feb. 11, 2019

**Date of Report:** Feb. 11, 2019

**Report Number:** TCT190125S013

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<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 .....	TCT190125S013
Tested by (+ signature) .....	Moon Ding
Approved by (+ signature) .....	Thomas
Date of issue .....	Feb. 11, 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 DOB Floodlight
Trademark .....	
Model and/or type reference .....	IL-FB220WK4
Rating .....	220-240VAC, 50/60Hz, 20W

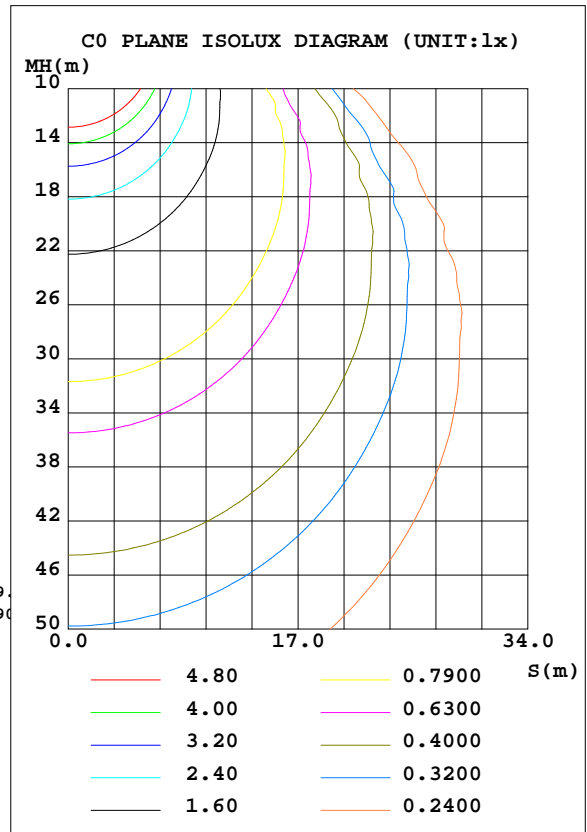
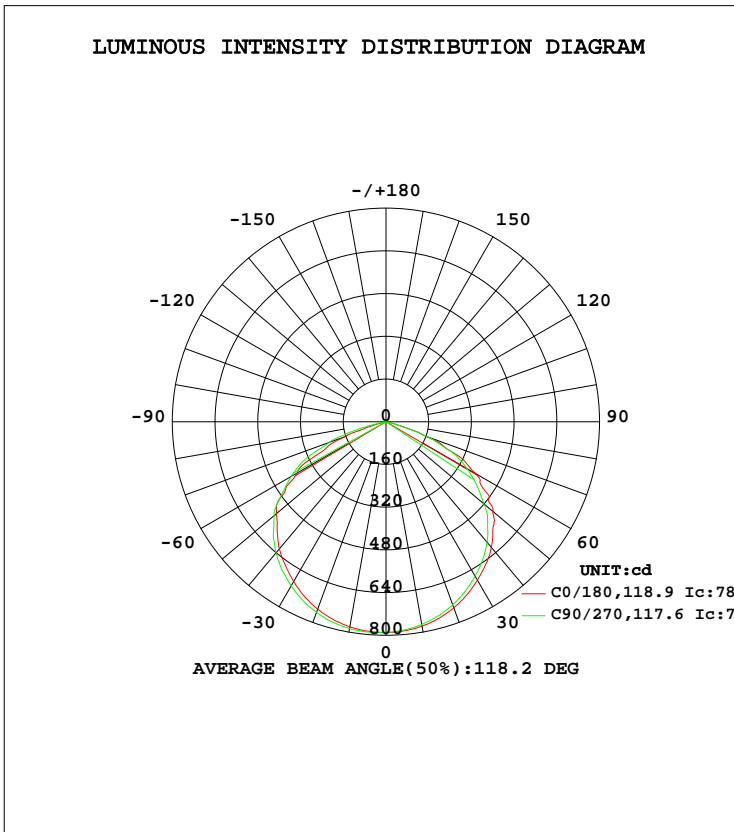


IES LM-79-08			
Clause	Requirement – Test	Measuring result – Remark	Verdict
2.0	Ambient Conditions		P
2.1	General		P
2.2	Air Temperature		P
2.3	Thermal Condition for Mounting SSL Products		P
2.4	Air Movement		P
3.0	Power Supply Characteristics		P
3.1	Waveshape of AC power supply		P
3.2	Voltage regulation		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:240.3V I:0.0903A P:20.25W PF:0.9336 Freq:50.00Hz Lamp Flux:2267.96x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.00 lm/W			
MODEL	IL-FB220WK4	Imax(cd)	790.5	S/MH(C0/180)	1.30
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	2268.0	$\eta$ UP, DN(C0-180)	0.0,48.0
NOMINAL FLUX(lm)	2267.96	CIE CLASS	DIRECT	$\eta$ UP, DN(C180-360)	0.1,51.8
LAMPS INSIDE	1	$\eta$ up(%)	0.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	240	$\eta$ down(%)	99.9	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Wilson  
 Test Date:2019-03-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:60.5%  
 Test Distance:2.718m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	777.3	772.5	770.7	773.4	779.8	784.9	786.2	783.1	0- 10	74.81	74.81	3.3,3.3
20	742.0	732.7	729.6	735.1	747.1	757.2	759.6	754.0	10- 20	215.9	290.7	12.8,12.8
30	684.6	670.2	667.6	673.9	690.9	705.4	709.5	700.7	20- 30	331.5	622.1	27.4,27.4
40	613.8	589.3	588.6	592.5	620.9	629.3	640.8	625.0	30- 40	408.4	1031	45.4,45.4
50	523.0	499.8	479.2	501.6	536.6	542.0	547.1	539.2	40- 50	438.7	1469	64.8,64.8
60	385.7	380.2	349.9	391.7	384.3	437.2	409.1	433.9	50- 60	410.6	1880	82.9,82.9
70	151.7	211.0	164.1	194.1	168.7	263.8	226.0	257.1	60- 70	300.9	2181	96.2,96.2
80	2.178	1.829	0.9719	1.679	2.272	3.642	3.503	3.729	70- 80	83.95	2265	99.9,99.9
90	0.0528	0.0639	0.0633	0.0634	0.0538	0.0863	0.1106	0.0583	80- 90	0.8019	2265	99.9,99.9
100	0.0914	0.1039	0.1092	0.1032	0.0854	0.0891	0.0854	0.0883	90-100	0.0829	2266	99.9,99.9
110	0.1454	0.1491	0.1606	0.1524	0.1310	0.1269	0.1246	0.1264	100-110	0.1203	2266	99.9,99.9
120	0.2415	0.2309	0.2382	0.2357	0.2472	0.2402	0.2440	0.2331	110-120	0.1831	2266	99.9,99.9
130	0.3577	0.3427	0.3595	0.3570	0.4047	0.4017	0.3957	0.3799	120-130	0.2731	2266	99.9,99.9
140	0.5695	0.5886	0.5974	0.5750	0.6392	0.6896	0.6813	0.6819	130-140	0.3751	2266	99.9,99.9
150	0.7216	0.7890	0.7769	0.7341	1.074	1.175	1.204	1.170	140-150	0.4953	2267	100,100
160	0.9028	0.9559	0.8854	0.8969	1.544	1.629	1.654	1.616	150-160	0.5141	2267	100,100
170	1.027	1.033	0.9344	0.9405	1.620	1.611	1.615	1.595	160-170	0.3676	2268	100,100
180	1.348	1.306	1.211	1.259	1.348	1.306	1.213	1.260	170-180	0.1219	2268	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1249.4 lm

%lum = 55.1%  
%lamp = 55.1%

Conical surface Flux(120deg): 1879.8 lm

%lum = 82.9%  
%lamp = 82.9%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
Test Date:2019-03-11

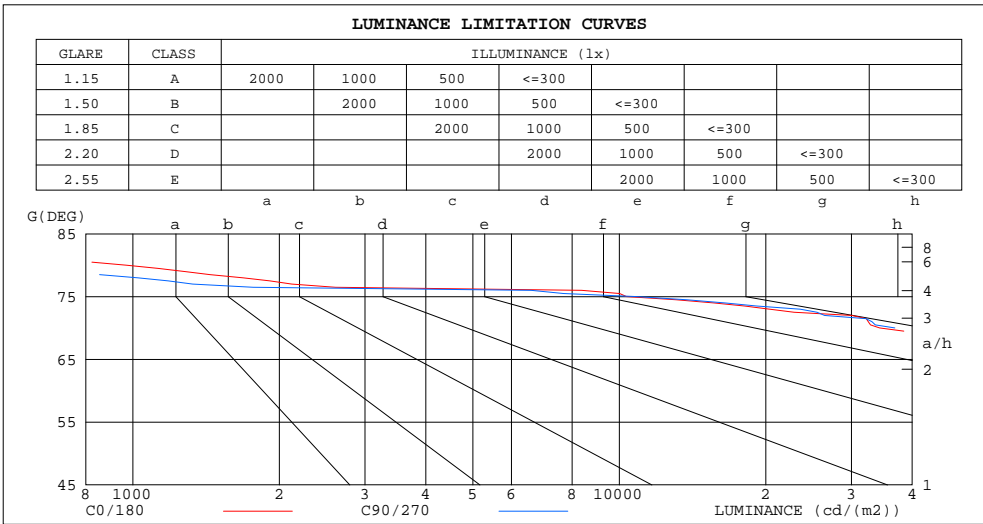
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:60.5%  
Test Distance:2.718m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

**LUMINANCE LIMITATION CURVES**

Test:U:240.3V I:0.0903A P:20.25W PF:0.9336 Freq:50.00Hz Lamp Flux:2267.96x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	257	433
80	970	430
75	10340	10817
70	34294	36851
65	52785	50389
60	59639	53737
55	61599	55602
50	62907	57249
45	61919	58476

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
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$\gamma$  Range: 0 - 180DEG  
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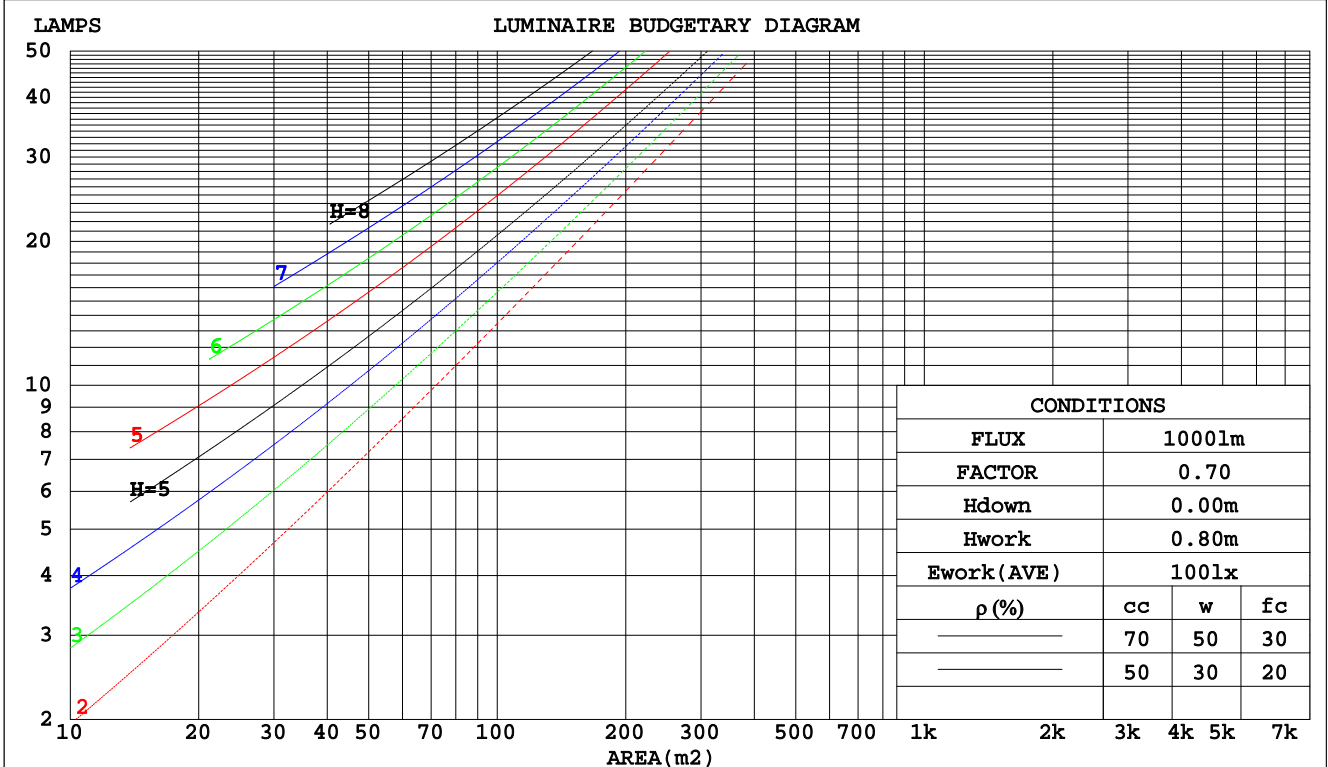
Checker: Near Gao

Assessor: Akin Xu

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:240.3V I:0.0903A P:20.25W PF:0.9336 Freq:50.00Hz Lamp Flux:2267.96x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																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	1.05	1.02	.98	1.03	.90	.96	.99	.96	.93	.95	.93	.91	.92	.90	.88	.86
2.0	.92	.86	.80	.90	.85	.80	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72
3.0	.81	.73	.67	.80	.72	.66	.77	.70	.65	.74	.69	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.70	.62	.56	.68	.61	.55	.66	.60	.55	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.57	.49	.42	.57	.48	.42	.55	.47	.42	.53	.46	.41	.51	.46	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.41	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.37	.31	.26	.25



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
Test Date:2019-03-11

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:60.5%  
Test Distance:2.718m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

**WEC AND CCEC**

Test:U:240.3V I:0.0903A P:20.25W PF:0.9336 Freq:50.00Hz Lamp Flux:2267.96x1 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	.279	.158	.050	.272	.155	.049	.259	.148	.047	.246	.142	.046	.235	.136	.044	
2.0	.273	.150	.046	.267	.147	.045	.256	.142	.044	.245	.137	.043	.235	.133	.042	
3.0	.258	.138	.041	.253	.136	.041	.243	.132	.040	.233	.128	.039	.224	.124	.038	
4.0	.242	.126	.037	.237	.124	.037	.228	.121	.036	.219	.118	.036	.211	.115	.035	
5.0	.225	.115	.033	.221	.114	.033	.213	.111	.033	.206	.108	.032	.198	.106	.032	
6.0	.210	.105	.030	.207	.104	.030	.199	.102	.030	.193	.100	.029	.186	.098	.029	
7.0	.197	.097	.028	.193	.096	.027	.187	.094	.027	.181	.093	.027	.175	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.175	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.155	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.156	.076	.021	.151	.075	.021	.147	.074	.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	.191	.191	.191	.164	.164	.164	.112	.112	.112	.064	.064	.064	.020	.020	.020	
1.0	.179	.157	.138	.153	.135	.118	.105	.093	.082	.060	.054	.048	.019	.017	.015	
2.0	.171	.133	.101	.146	.114	.087	.100	.079	.061	.058	.046	.036	.019	.015	.012	
3.0	.163	.115	.077	.140	.099	.067	.096	.069	.047	.055	.040	.028	.018	.013	.009	
4.0	.156	.102	.060	.134	.088	.052	.092	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.149	.091	.049	.128	.079	.042	.088	.055	.030	.051	.032	.018	.016	.011	.006	
6.0	.142	.083	.040	.122	.072	.035	.084	.050	.025	.049	.030	.015	.016	.010	.005	
7.0	.135	.076	.034	.117	.066	.030	.080	.046	.021	.047	.027	.013	.015	.009	.004	
8.0	.129	.070	.030	.111	.061	.026	.077	.043	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.026	.106	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003	
10.0	.118	.061	.023	.101	.053	.020	.070	.037	.015	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
Test Date:2019-03-11

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:60.5%  
Test Distance:2.718m [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:240.3V I:0.0903A P:20.25W PF:0.9336 Freq:50.00Hz Lamp Flux:2267.96x1 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	24.6	26.1	24.8	26.3	26.5	24.1	25.6	24.4	25.8	26.0
3H	25.6	27.0	25.9	27.2	27.4	25.3	26.7	25.6	26.9	27.1
4H	25.6	26.9	25.9	27.2	27.4	25.3	26.6	25.6	26.9	27.1
6H	25.5	26.7	25.8	27.0	27.3	25.2	26.5	25.6	26.7	27.0
8H	25.5	26.6	25.8	26.9	27.2	25.2	26.4	25.5	26.6	26.9
12H	25.4	26.5	25.8	26.8	27.1	25.1	26.3	25.5	26.5	26.9
4H 2H	25.1	26.4	25.4	26.7	26.9	24.8	26.1	25.1	26.4	26.6
3H	26.3	27.4	26.6	27.7	28.0	26.0	27.2	26.4	27.5	27.8
4H	26.3	27.3	26.7	27.6	28.0	26.1	27.1	26.5	27.4	27.8
6H	26.2	27.1	26.6	27.4	27.8	26.0	26.9	26.4	27.3	27.6
8H	26.1	27.0	26.6	27.4	27.7	26.0	26.8	26.4	27.2	27.6
12H	26.1	26.9	26.5	27.3	27.7	25.9	26.7	26.3	27.1	27.5
8H 4H	26.3	27.1	26.7	27.5	27.8	26.1	26.9	26.5	27.3	27.7
6H	26.2	26.9	26.6	27.3	27.7	26.0	26.7	26.4	27.1	27.5
8H	26.1	26.7	26.6	27.2	27.6	25.9	26.6	26.4	27.0	27.4
12H	26.1	26.6	26.6	27.1	27.5	25.9	26.4	26.4	26.9	27.4
12H 4H	26.2	27.0	26.6	27.4	27.8	26.0	26.8	26.5	27.2	27.6
6H	26.1	26.7	26.6	27.2	27.6	25.9	26.6	26.4	27.0	27.4
8H	26.1	26.6	26.6	27.1	27.5	25.9	26.4	26.4	26.9	27.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.6					+ 0.3 / - 0.5				
2.0H	+ 0.4 / - 0.8					+ 0.3 / - 0.7				

CIE Pub.117, 2268 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.8)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
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γ Range: 0 - 180DEG  
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Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:60.5%  
Test Distance:2.718m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

**UTILIZATION FACTORS TABLE**

Test:U:240.3V I:0.0903A P:20.25W PF:0.9336 Freq:50.00Hz Lamp Flux:2267.96x1 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	58	46	39	57	46	39	56	45	39	32
0.80	68	57	49	67	56	49	65	55	49	42
1.00	77	66	59	76	66	59	74	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	95	87	82	91	85	80	72
2.50	100	93	87	98	92	86	95	89	85	77
3.00	104	97	92	102	96	91	98	93	89	81
4.00	108	102	98	105	101	97	101	97	94	85
5.00	110	105	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:25.1DEG  
Operators:Wilson  
Test Date:2019-03-11

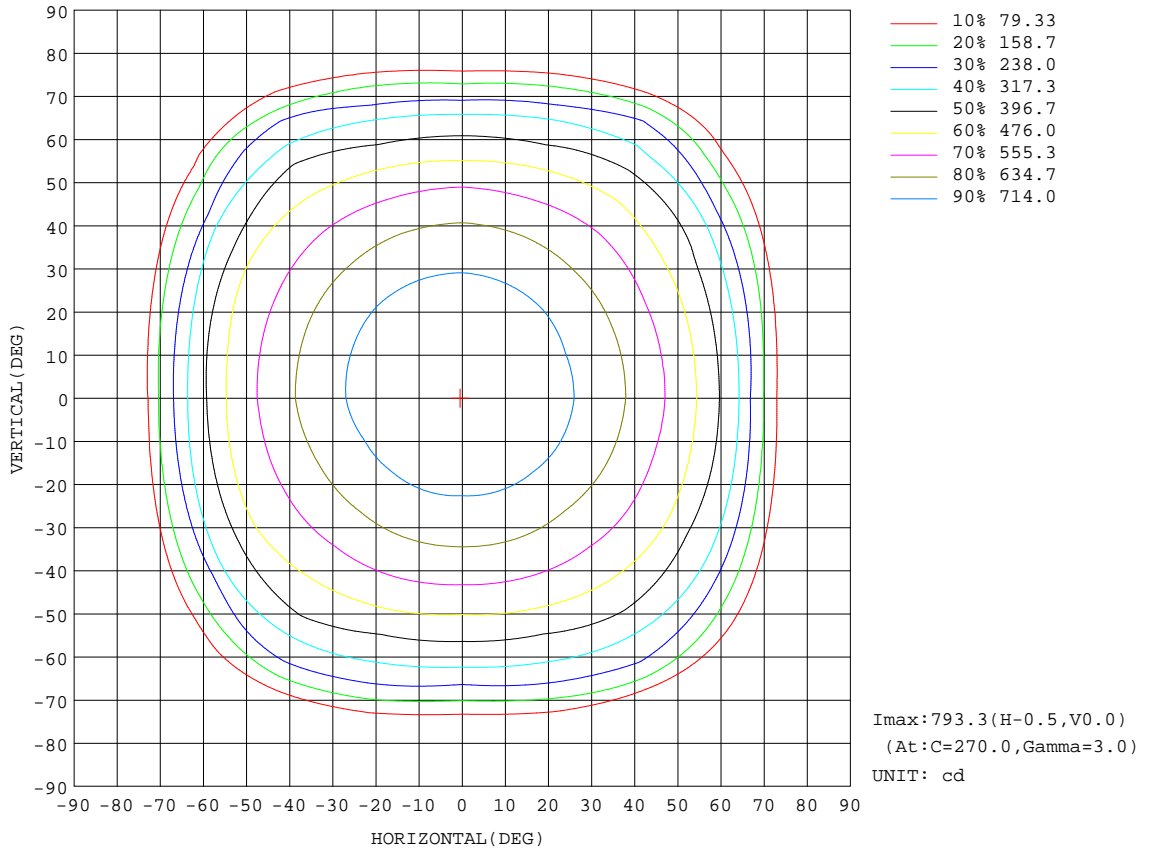
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:60.5%  
Test Distance:2.718m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

**ISOCANDELA DIAGRAM**

Test:U:240.3V I:0.0903A P:20.25W PF:0.9336 Freq:50.00Hz Lamp Flux:2267.96x1 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: 25.1DEG  
Operators: Wilson  
Test Date: 2019-03-11

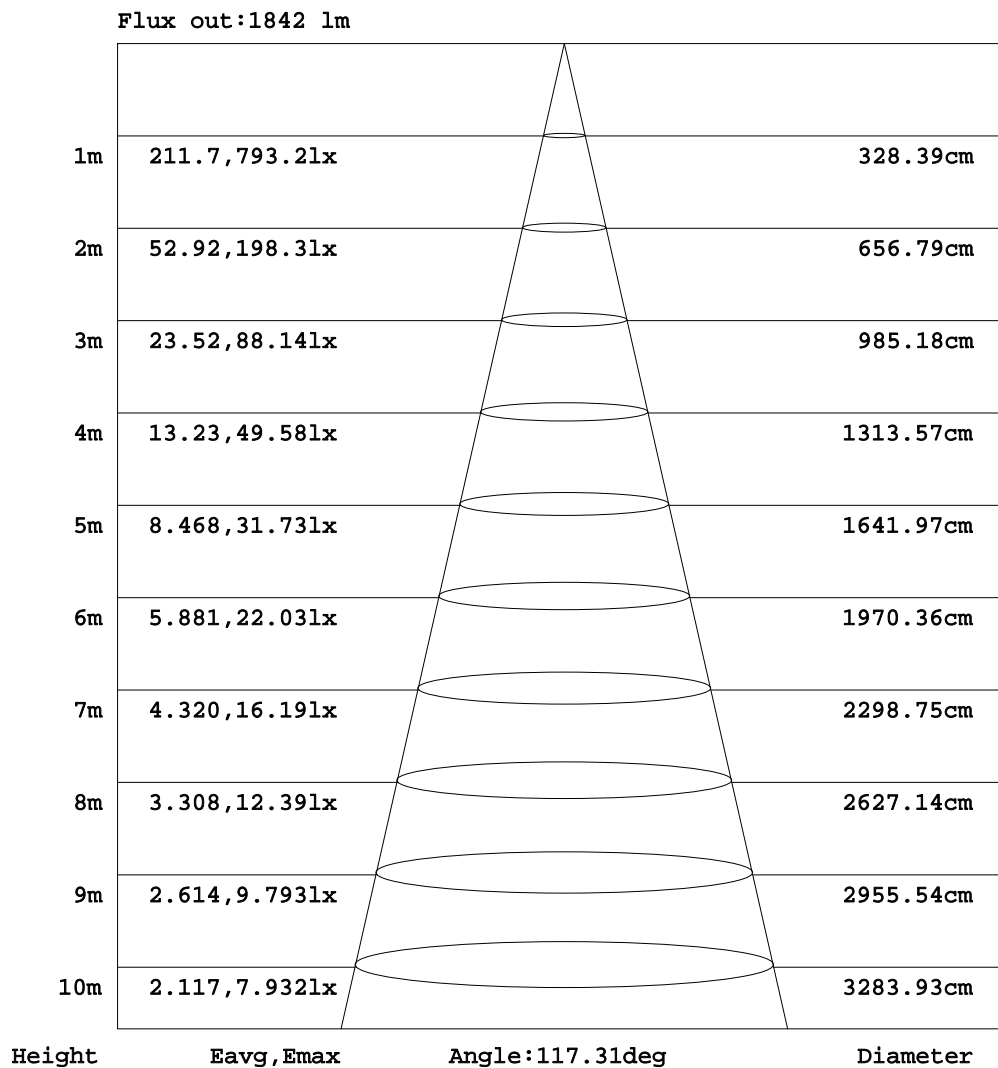
γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity: 60.5%  
Test Distance: 2.718m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

**AAI Figure**

Test:U:240.3V I:0.0903A P:20.25W PF:0.9336 Freq:50.00Hz Lamp Flux:2267.96x1 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:25.1DEG  
Operators:Wilson  
Test Date:2019-03-11

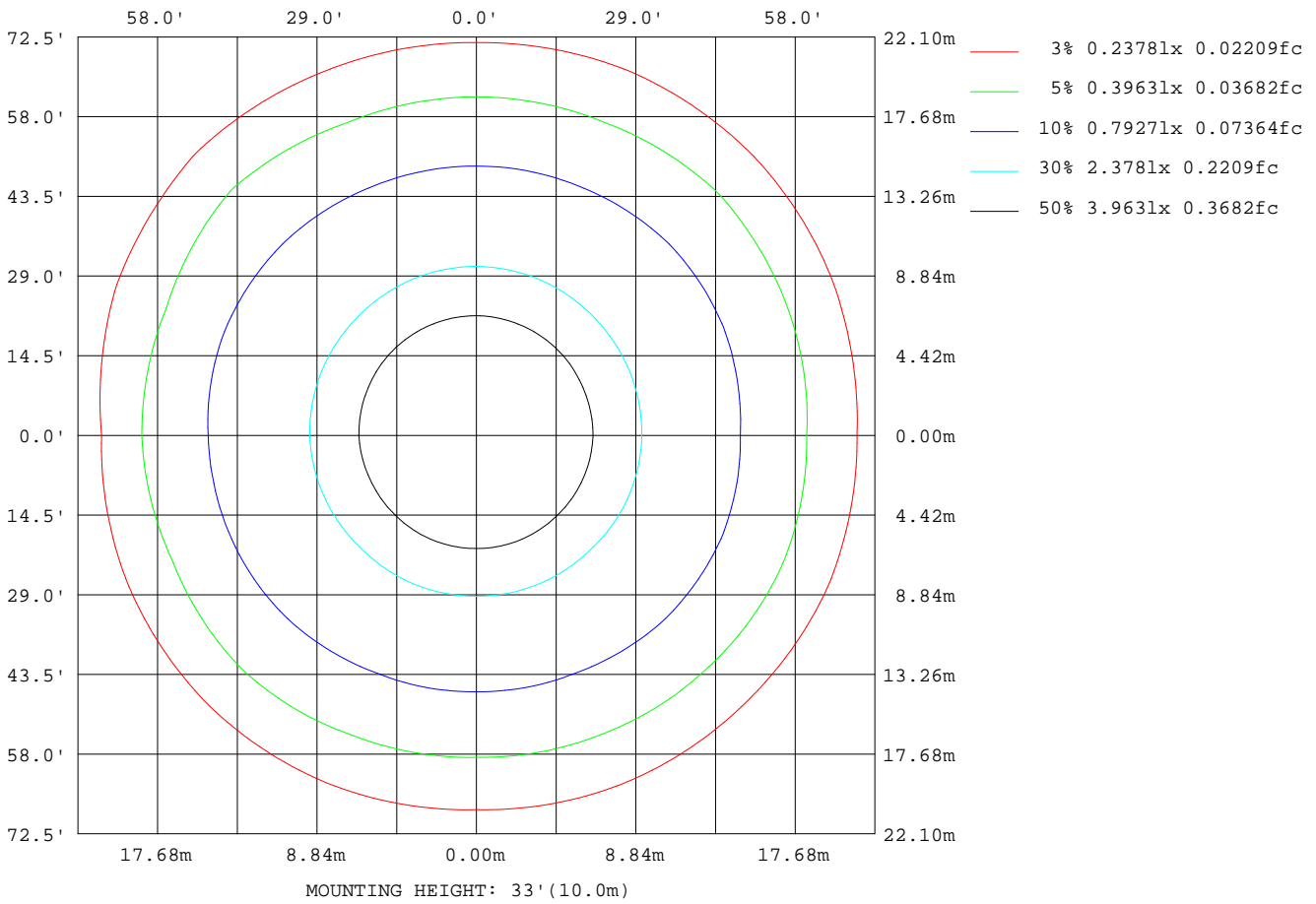
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:60.5%  
Test Distance:2.718m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

**ISOLUX DIAGRAM**

Test:U:240.3V I:0.0903A P:20.25W PF:0.9336 Freq:50.00Hz Lamp Flux:2267.96x1 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: 25.1DEG  
Operators: Wilson  
Test Date: 2019-03-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity: 60.5%  
Test Distance: 2.718m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

**LED Avg.L Report**

Test:U:240.3V I:0.0903A P:20.25W PF:0.9336 Freq:50.00Hz Lamp Flux:2267.96x1 lm		
NAME: 1	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	50422
L_0~180(75)av	9518
L_0~180(85)av	199
L_90~270(65)av	55730
L_90~270(75)av	21213
L_90~270(85)av	532
L_45(65)av	57816
L_45(75)av	25170
L_45(85)av	508

Standard: GB/T 29293-2012

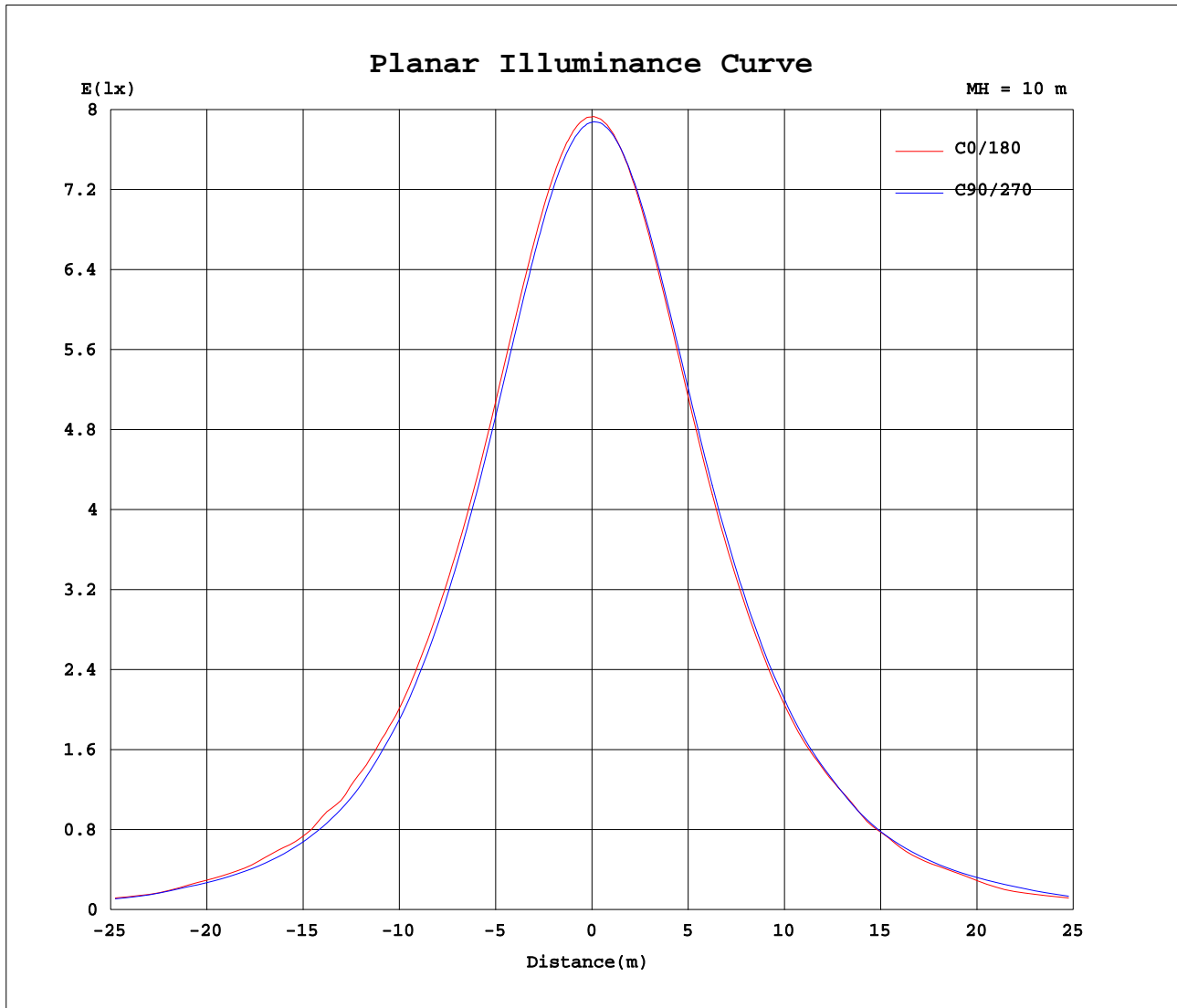
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
Test Date:2019-03-11

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:60.5%  
Test Distance:2.718m [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: 25.1DEG  
Operators: Wilson  
Test Date: 2019-03-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity: 60.5%  
Test Distance: 2.718m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:240.3V I:0.0903A P:20.25W PF:0.9336 Freq:50.00Hz Lamp Flux:2267.96x1 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	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789			
5	786	784	783	783	783	783	784	785	787	788	789	790	790	789	789	787			
10	777	775	772	771	771	772	773	777	780	782	785	786	786	785	783	780			
15	763	759	755	753	753	755	757	761	767	770	774	775	777	774	772	766			
20	742	737	733	731	730	731	735	741	747	751	757	759	760	757	754	747			
25	716	710	704	701	701	703	708	714	722	728	734	736	738	734	730	722			
30	685	677	670	668	668	670	674	682	691	697	705	707	710	705	701	692			
35	652	642	631	631	631	633	636	645	657	662	670	674	678	671	666	657			
40	614	605	589	589	589	591	592	608	621	626	629	637	641	634	625	622			
45	566	558	547	540	539	543	549	563	576	583	586	592	597	589	584	577			
50	523	516	500	488	479	491	502	517	537	533	542	540	547	537	539	534			
55	457	447	442	419	415	421	445	470	465	494	487	482	478	482	485	465			
60	386	384	380	356	350	358	392	374	384	406	437	407	409	407	434	399			
65	289	302	294	290	277	292	294	284	265	325	347	337	335	339	336	319			
70	152	177	211	185	164	188	194	165	169	207	264	228	226	230	257	208			
75	34.6	43.5	38.0	49.1	36.5	56.3	52.5	31.1	29.4	50.5	124	125	106	116	124	63.0			
80	2.18	1.87	1.83	1.07	0.97	1.30	1.68	2.10	2.27	2.96	3.64	4.71	3.50	4.39	3.73	2.88			
85	0.29	0.38	0.63	0.46	0.49	0.44	0.32	0.18	0.16	0.37	0.56	0.64	0.72	1.22	0.79	0.39			
90	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.07	0.09	0.11	0.11	0.23	0.06	0.06			
95	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.07			
100	0.09	0.09	0.10	0.11	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09			
105	0.11	0.11	0.12	0.13	0.13	0.13	0.12	0.11	0.10	0.10	0.10	0.11	0.10	0.11	0.10	0.10			
110	0.15	0.14	0.15	0.16	0.16	0.15	0.15	0.14	0.13	0.13	0.13	0.13	0.12	0.13	0.13	0.13			
115	0.19	0.18	0.19	0.19	0.20	0.20	0.19	0.18	0.18	0.18	0.17	0.18	0.17	0.17	0.17	0.18			
120	0.24	0.23	0.23	0.24	0.24	0.24	0.24	0.23	0.25	0.25	0.24	0.25	0.24	0.24	0.23	0.24			
125	0.30	0.29	0.28	0.30	0.29	0.29	0.30	0.30	0.32	0.33	0.32	0.33	0.32	0.31	0.31	0.32			
130	0.36	0.35	0.34	0.37	0.36	0.36	0.36	0.36	0.40	0.40	0.40	0.41	0.40	0.39	0.38	0.40			
135	0.46	0.47	0.45	0.45	0.46	0.46	0.46	0.45	0.50	0.51	0.51	0.51	0.50	0.49	0.49	0.50			
140	0.57	0.59	0.59	0.58	0.60	0.59	0.57	0.54	0.64	0.66	0.69	0.68	0.68	0.68	0.68	0.66			
145	0.66	0.70	0.70	0.72	0.71	0.70	0.67	0.63	0.85	0.88	0.92	0.95	0.95	0.95	0.92	0.88			
150	0.72	0.79	0.79	0.79	0.78	0.76	0.73	0.69	1.07	1.12	1.17	1.20	1.20	1.20	1.17	1.13			
155	0.81	0.88	0.88	0.87	0.83	0.83	0.83	0.78	1.30	1.36	1.42	1.46	1.45	1.46	1.42	1.40			
160	0.90	0.95	0.96	0.92	0.89	0.90	0.90	0.87	1.54	1.57	1.63	1.64	1.65	1.67	1.62	1.57			
165	0.96	1.01	0.99	0.95	0.92	0.92	0.92	0.91	1.63	1.63	1.70	1.70	1.74	1.71	1.68	1.64			
170	1.03	1.05	1.03	0.96	0.93	0.92	0.94	0.97	1.62	1.60	1.61	1.59	1.62	1.60	1.59	1.59			
175	1.14	1.14	1.12	1.06	0.98	1.01	1.04	1.10	1.52	1.52	1.48	1.42	1.43	1.44	1.46	1.47			
180	1.35	1.33	1.31	1.24	1.21	1.22	1.26	1.30	1.35	1.33	1.31	1.24	1.21	1.22	1.26	1.30			

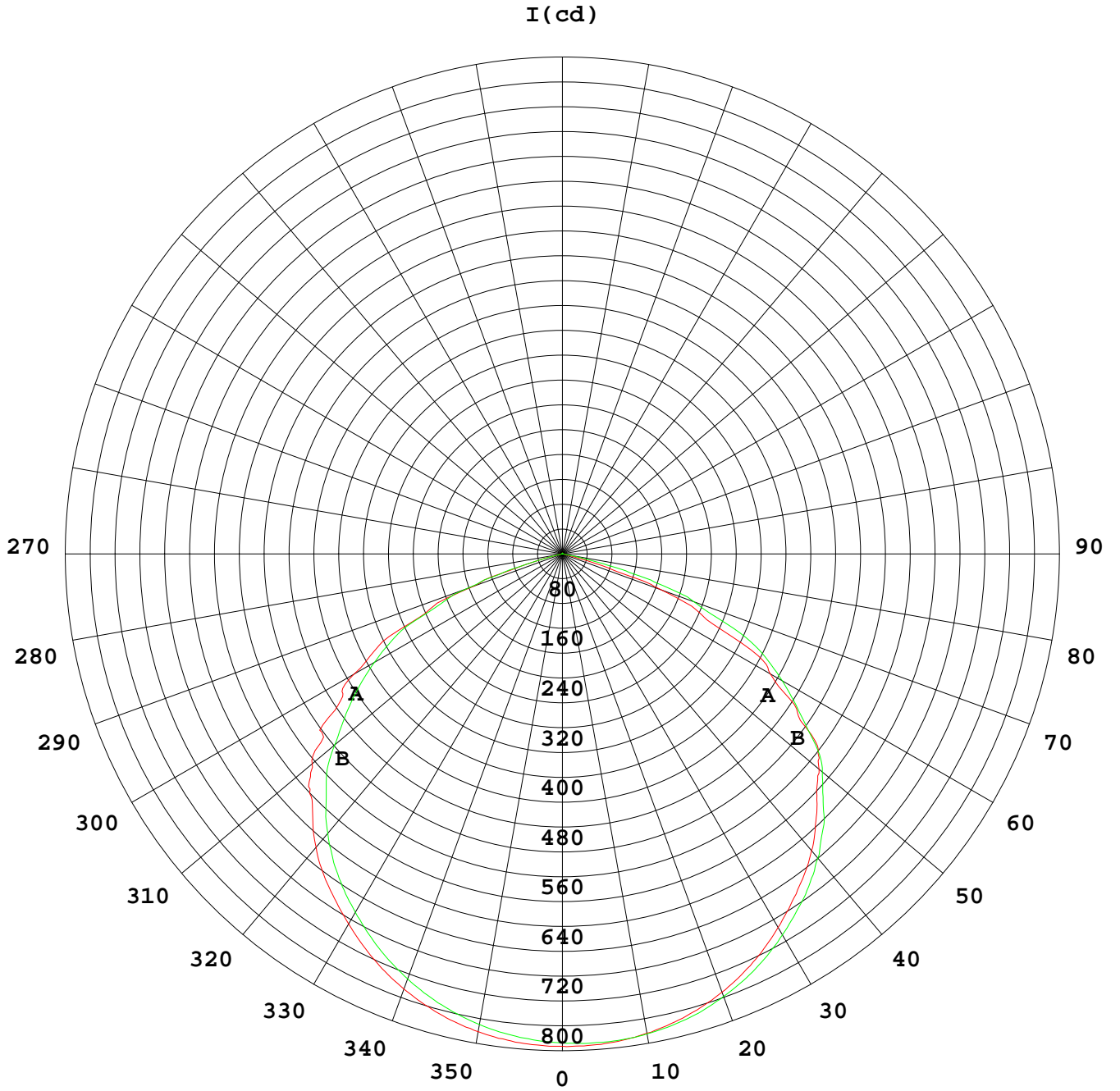
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
Test Date:2019-03-11

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:60.5%  
Test Distance:2.718m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

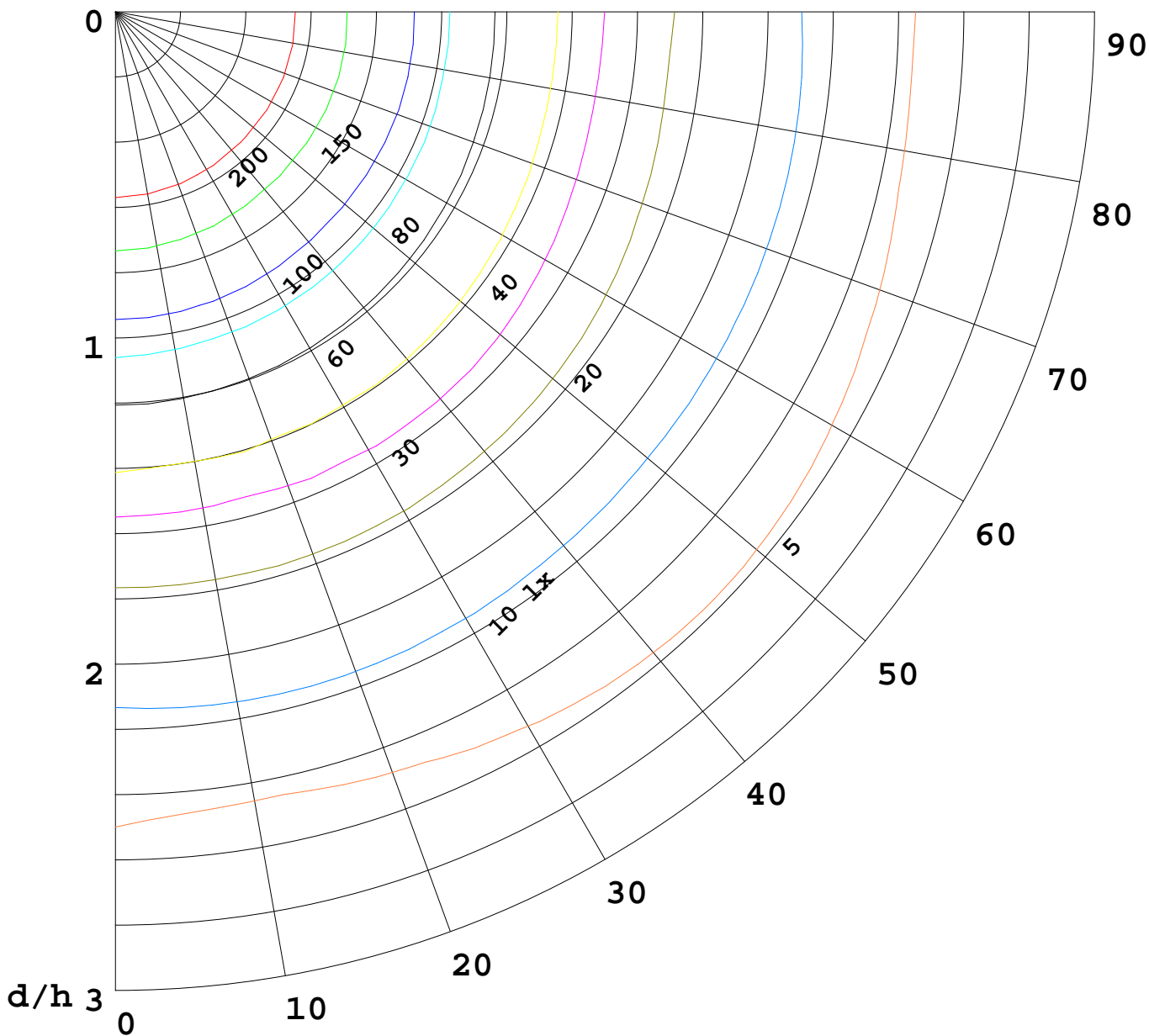
Assessor: Akin Xu





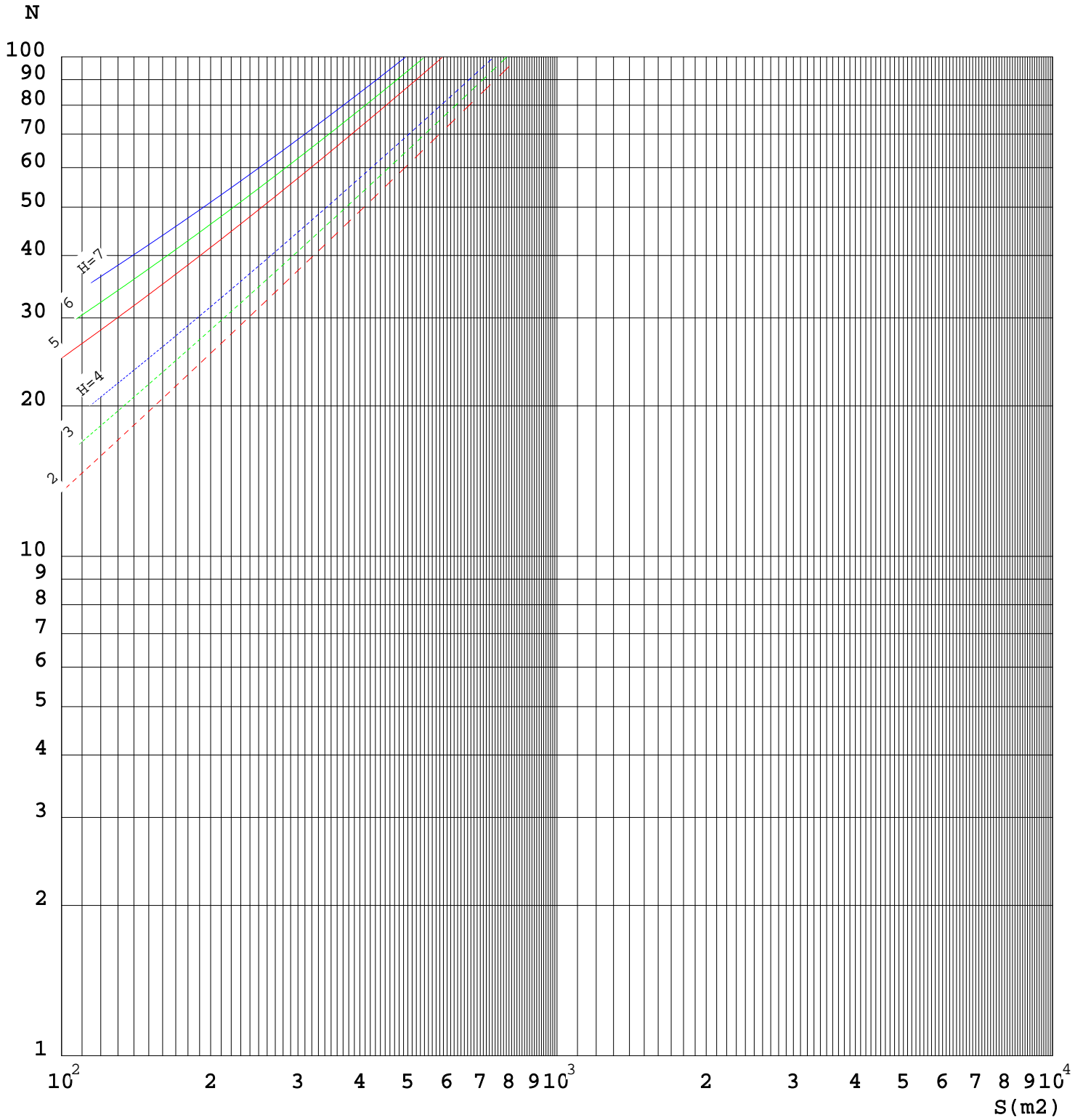
1000 lm

$\kappa = 1$



F = 1000 lm  
 K = 0.7  
 Hcc = 0.8 m  
 Hfc = 0.0 m  
 Eave = 100 lx

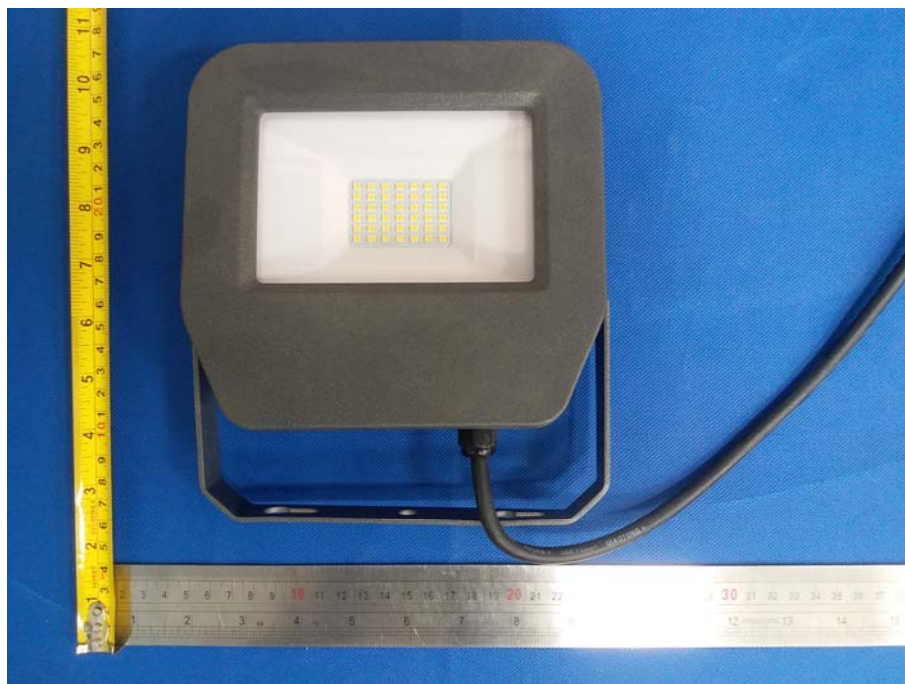
	Pcc	Pw	Pfc
—————	70	50	30
—————	50	30	20



**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\*\*\***