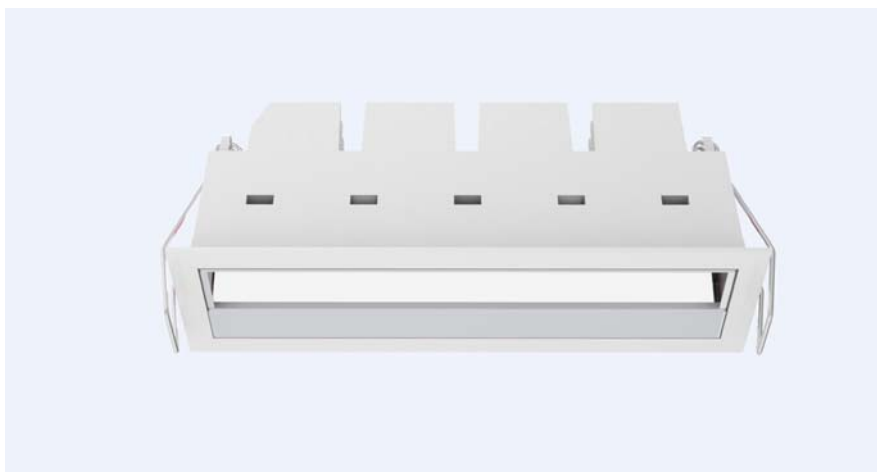


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LED Downlight FUSION Series LE-  
FW5-11W-830

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Light Output Ratio:	100.0%	
Luminaire Power:	12.16 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.30	fine grid method.

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C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-01-09

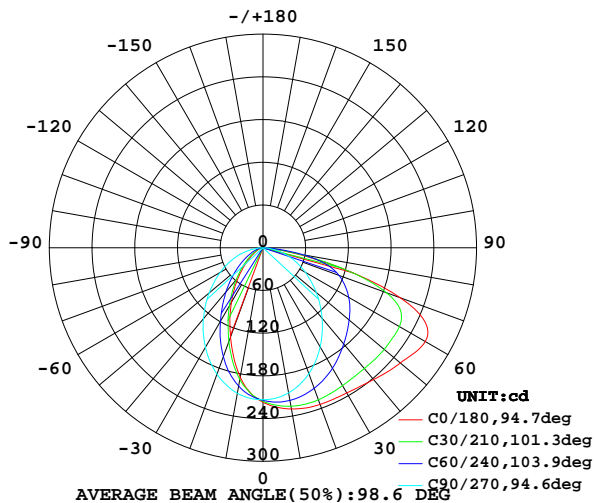
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

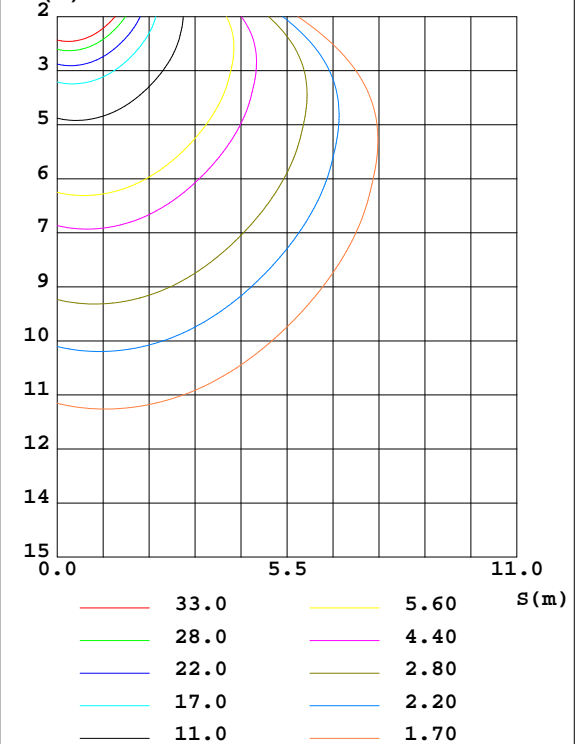
Test:U:220.6V I:0.0620A P:12.16W PF:0.8892 Lamp Flux:596.266x1 lm		
NAME: FW5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 49.04 lm/W			
MODEL	CREE-3000K	I <sub>max</sub> (cd)	263.3	S/MH(C0/180)	0.74
NOMINAL POWER(W)	13.0	LOR(%)	100.0	S/MH(C90/270)	1.14
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	596.27	η UP,DN(C0-180)	0.0,53.3
NOMINAL FLUX(lm)	596.266	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,46.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



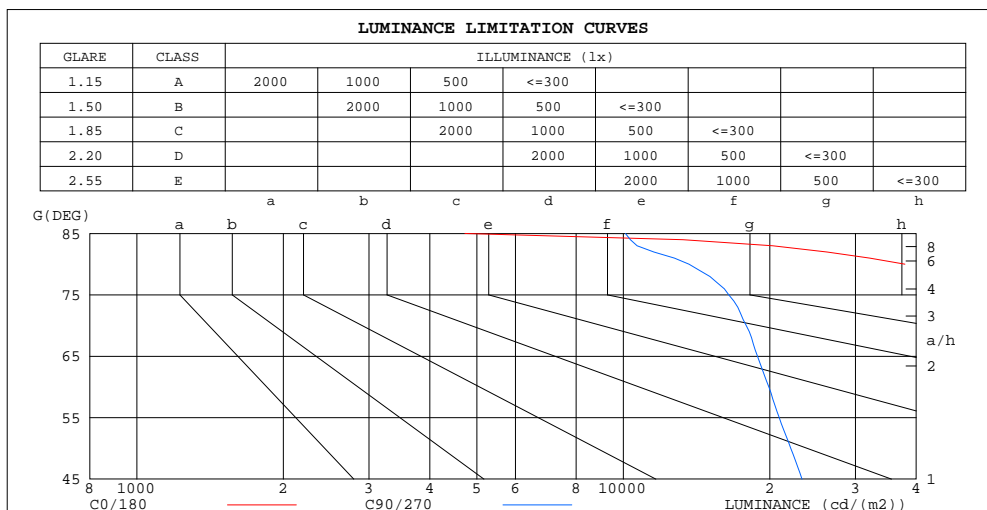
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-01-09

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:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	230.0	222.3	207.0	190.0	184.5	191.8	207.5	220.1	0- 10	20.06	20.06	3.36,3.36
20	234.2	219.8	188.3	148.1	133.4	149.1	189.0	217.8	10- 20	55.27	75.33	12.6,12.6
30	235.5	211.0	160.6	103.0	88.81	103.9	161.6	209.0	20- 30	79.15	154.5	25.9,25.9
40	241.7	200.4	129.2	65.96	53.47	66.35	130.4	198.3	30- 40	91.85	246.3	41.3,41.3
50	251.8	191.6	97.81	38.66	27.74	39.01	98.73	189.1	40- 50	96.85	343.2	57.6,57.6
60	263.3	180.1	68.54	20.65	12.82	20.95	69.49	177.5	50- 60	97.05	440.2	73.8,73.8
70	205.1	153.3	42.15	10.08	5.784	10.34	43.30	151.1	60- 70	90.39	530.6	89,89
80	45.32	55.81	16.31	3.706	2.144	3.859	17.90	57.89	70- 80	55.85	586.5	98.4,98.4
90	0.1640	0.2514	0.2274	0.3520	0.3170	0.3083	0.3455	0.2143	80- 90	9.794	596.3	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		



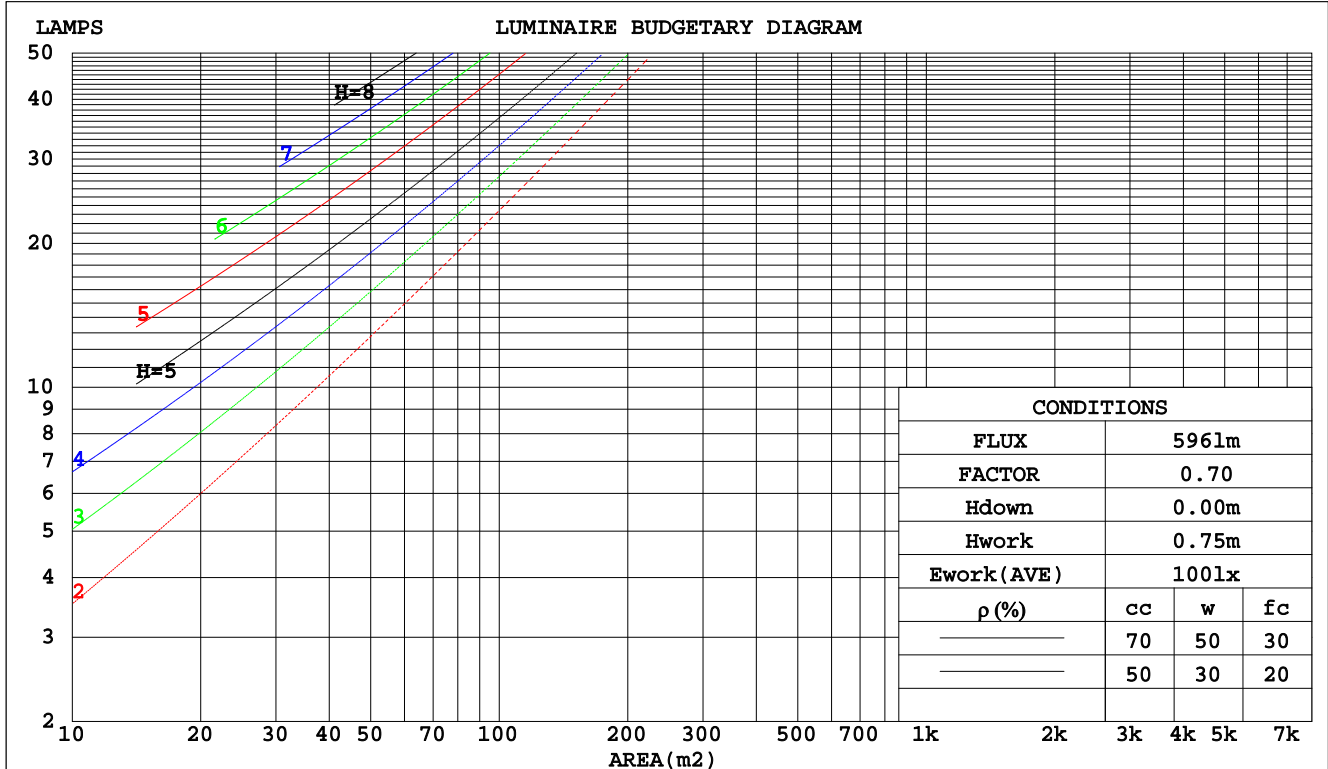
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-01-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.0620A P:12.16W PF:0.8892 Lamp Flux:596.266x1 lm		
NAME: FW5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		

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	1.00
1.0	1.03	.99	.94	1.01	.97	.93	.96	.93	.90	.93	.90	.87	.89	.87	.85	.82
2.0	.89	.82	.76	.87	.80	.75	.83	.78	.73	.80	.75	.71	.77	.73	.70	.67
3.0	.77	.69	.62	.76	.68	.61	.73	.66	.60	.70	.64	.59	.67	.62	.58	.56
4.0	.68	.59	.52	.67	.58	.52	.64	.57	.51	.62	.56	.50	.60	.54	.50	.47
5.0	.61	.51	.45	.60	.51	.44	.58	.50	.44	.55	.49	.43	.54	.48	.43	.41
6.0	.55	.45	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.49	.42	.38	.35
7.0	.50	.41	.34	.49	.40	.34	.47	.39	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.34	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.24	.23



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-01-09

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:

## WEC AND CCEC

Test:U:220.6V I:0.0620A P:12.16W PF:0.8892 Lamp Flux:596.266x1 lm		
NAME: FW5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		

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	.326	.185	.059	.319	.182	.058	.305	.175	.056	.293	.169	.054	.282	.163	.053	
2.0	.306	.168	.052	.300	.165	.051	.288	.160	.050	.277	.156	.049	.267	.151	.048	
3.0	.282	.150	.045	.276	.148	.045	.266	.144	.044	.256	.140	.043	.247	.137	.042	
4.0	.259	.134	.040	.254	.133	.039	.244	.130	.039	.236	.127	.038	.228	.124	.038	
5.0	.238	.121	.035	.233	.120	.035	.225	.117	.035	.217	.115	.034	.210	.112	.034	
6.0	.219	.110	.031	.216	.109	.031	.208	.107	.031	.201	.105	.031	.195	.103	.030	
7.0	.203	.101	.029	.200	.100	.028	.193	.098	.028	.187	.096	.028	.181	.094	.028	
8.0	.189	.093	.026	.186	.092	.026	.180	.090	.026	.175	.089	.026	.170	.087	.025	
9.0	.177	.086	.024	.174	.085	.024	.169	.084	.024	.164	.082	.024	.159	.081	.023	
10.0	.166	.080	.022	.163	.079	.022	.159	.078	.022	.154	.077	.022	.150	.075	.022	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.133	.155	.134	.115	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.174	.132	.096	.149	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.073	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.009	
4.0	.159	.101	.057	.137	.087	.049	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.152	.091	.046	.130	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.083	.038	.124	.071	.033	.086	.050	.024	.050	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.082	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-01-09

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:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.0620A P:12.16W PF:0.8892 Lamp Flux:596.266x1 lm										
NAME: FW5-11W-830					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					DIM.: L153mm*W45mm*H60mm					
MFR.:										
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	30.4	31.9	30.6	32.1	32.3	25.5	27.1	25.8	27.3	27.5
3H	33.2	34.6	33.5	34.9	35.1	27.0	28.4	27.3	28.7	28.9
4H	33.9	35.3	34.3	35.6	35.8	27.5	28.9	27.9	29.2	29.4
6H	34.2	35.5	34.5	35.8	36.0	27.9	29.2	28.3	29.5	29.8
8H	34.2	35.4	34.5	35.7	36.0	28.0	29.3	28.4	29.6	29.9
12H	34.1	35.3	34.5	35.6	36.0	28.0	29.2	28.4	29.5	29.9
4H 2H	30.9	32.3	31.2	32.5	32.8	27.7	29.1	28.0	29.3	29.6
3H	33.9	35.1	34.3	35.4	35.7	29.4	30.7	29.8	31.0	31.3
4H	34.8	35.9	35.2	36.2	36.6	30.2	31.3	30.6	31.6	32.0
6H	35.1	36.1	35.5	36.5	36.8	30.7	31.7	31.1	32.1	32.4
8H	35.1	36.1	35.6	36.4	36.8	30.9	31.8	31.3	32.2	32.5
12H	35.1	36.0	35.5	36.4	36.8	30.9	31.8	31.3	32.2	32.6
8H 4H	35.0	35.9	35.4	36.3	36.7	31.3	32.2	31.7	32.6	33.0
6H	35.4	36.2	35.9	36.6	37.0	32.0	32.8	32.5	33.2	33.6
8H	35.5	36.2	35.9	36.6	37.0	32.3	33.0	32.7	33.4	33.8
12H	35.4	36.0	35.9	36.5	37.0	32.4	33.0	32.9	33.5	33.9
12H 4H	35.0	35.8	35.4	36.2	36.6	31.3	32.2	31.8	32.6	33.0
6H	35.4	36.1	35.9	36.5	37.0	32.1	32.8	32.6	33.2	33.7
8H	35.5	36.1	36.0	36.5	37.0	32.4	33.0	32.9	33.5	33.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.6				

CIE Pub.117 Corrected 596.3 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.8)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-01-09

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:

## UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.0620A P:12.16W PF:0.8892 Lamp Flux:596.266x1 lm		
NAME: FW5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		

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	56	44	37	55	44	37	54	43	37	30
0.80	66	54	46	65	53	46	63	52	46	38
1.00	74	62	55	73	62	54	70	63	54	46
1.25	81	70	62	79	69	62	77	68	61	54
1.50	86	76	68	84	75	68	81	73	67	59
2.00	93	84	77	91	83	77	88	81	75	67
2.50	98	89	83	95	88	82	92	85	80	72
3.00	101	94	88	99	92	87	95	89	85	76
4.00	105	100	95	103	98	93	99	94	91	82
5.00	108	103	99	106	101	97	101	98	94	85
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:Meng Yongjian  
 Test Date:2017-01-09

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:

## ISOCANDELA DIAGRAM

Test:U:220.6V I:0.0620A P:12.16W PF:0.8892 Lamp Flux:596.266x1 lm		
NAME: FW5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		

Conical surface Flux(90deg):

294.48 lm

%lum = 49.4%

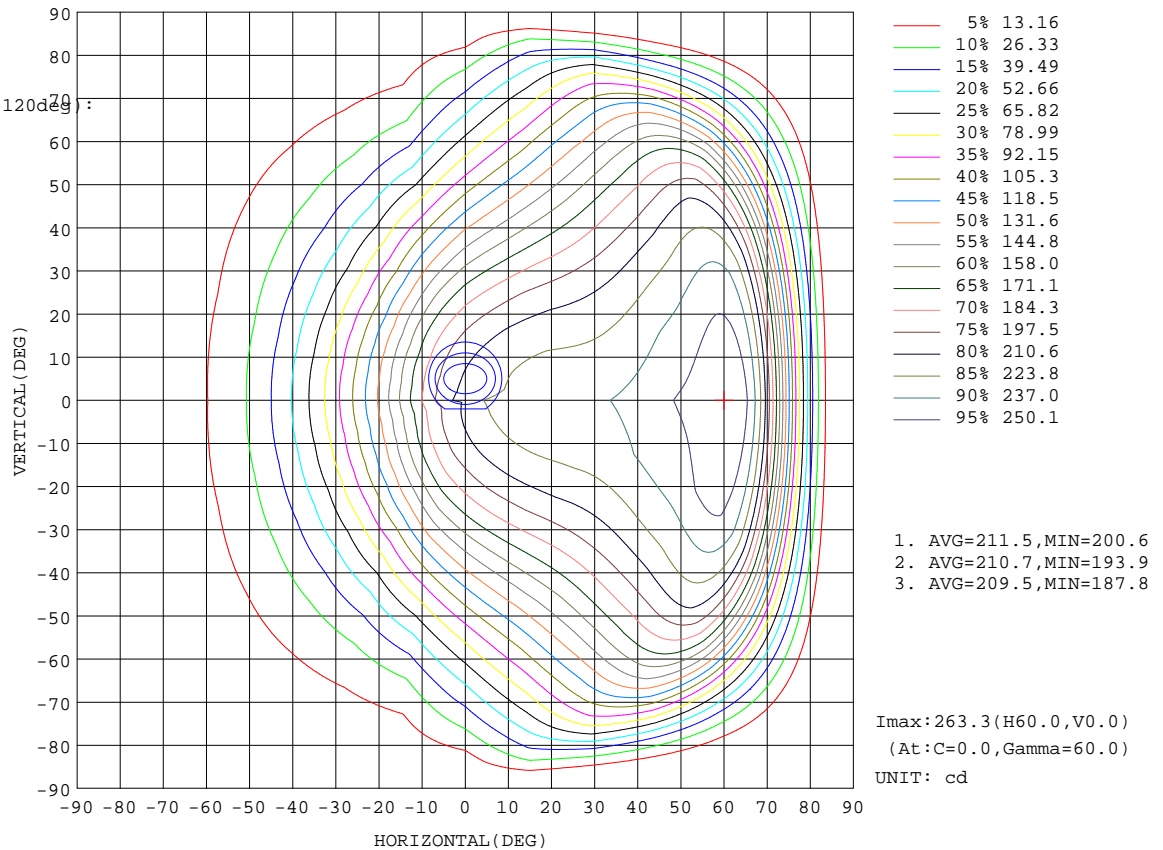
%lamp = 49.4%

Conical surface Flux(120deg):

440.23 lm

%lum = 73.8%

%lamp = 73.8%



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-01-09

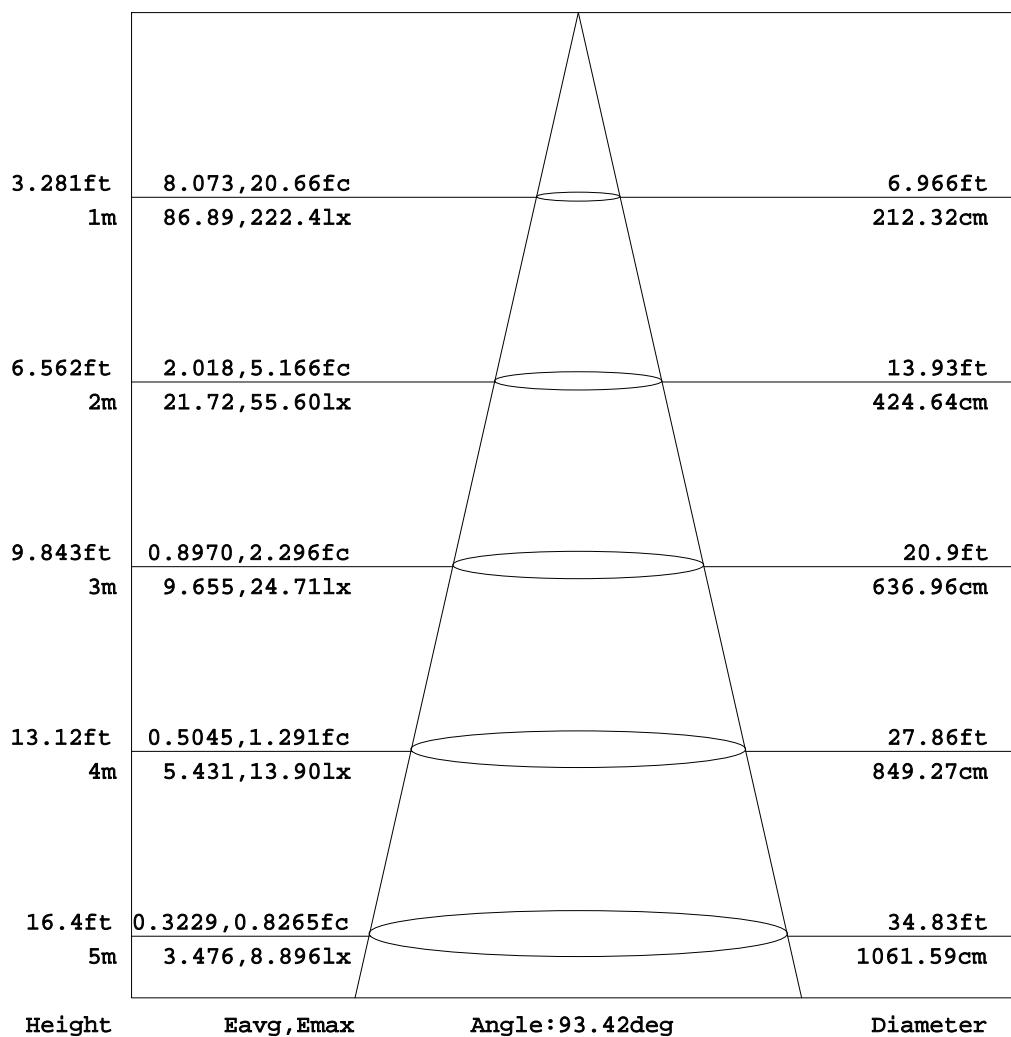
γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:



## AAI Figure

Test:U:220.6V I:0.0620A P:12.16W PF:0.8892 Lamp Flux:596.266x1 lm		
NAME: FW5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		

Flux out:313.9 lm



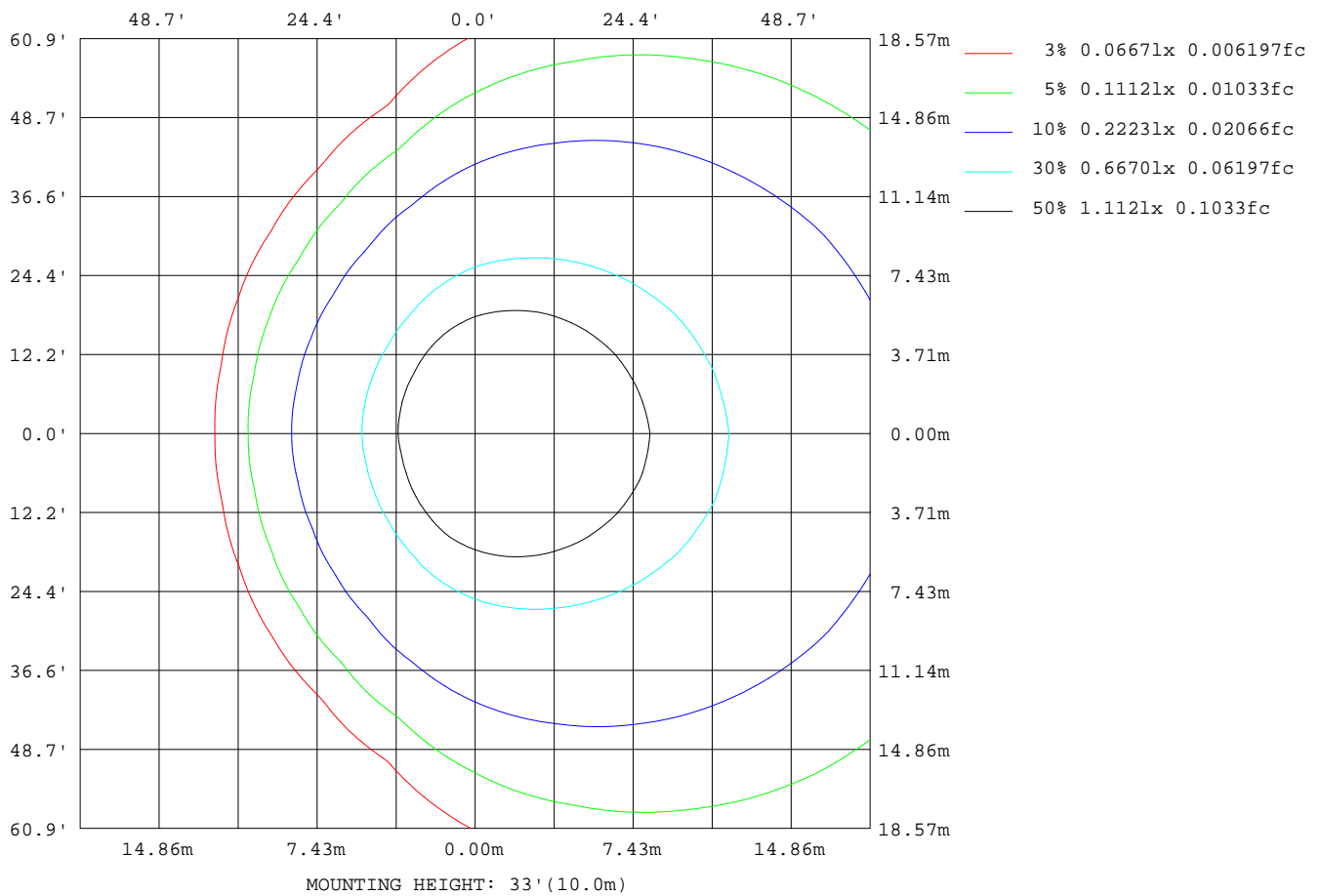
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-01-09

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:

## ISOLUX DIAGRAM

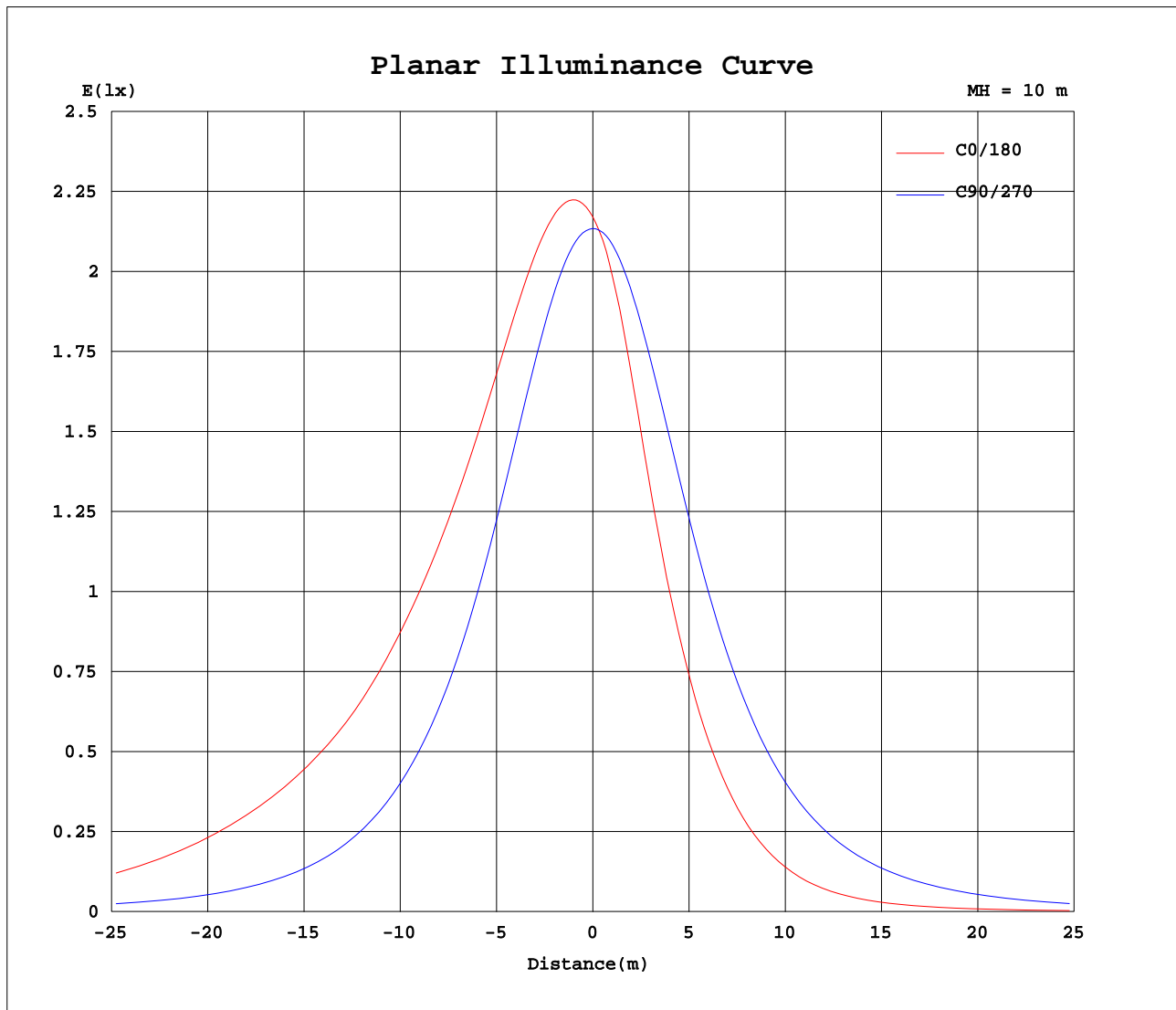
Test:U:220.6V I:0.0620A P:12.16W PF:0.8892 Lamp Flux:596.266x1 lm		
NAME: FW5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-01-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-01-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0620A P:12.16W PF:0.8892 Lamp Flux:596.266x1 lm		
NAME: FW5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-01-09

```

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:

```

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0620A P:12.16W PF:0.8892 Lamp Flux:596.266x1 lm		
NAME: FW5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-01-09

```

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:

```

## 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	217.1	216.0	215.6	214.8	214.4	213.8	213.4	213.1	212.7	212.5
3.0	222.1	220.9	219.9	218.3	216.7	214.8	212.9	211.1	209.3	207.9
6.0	226.1	224.8	223.1	220.7	217.9	214.7	211.3	208.0	204.6	201.6
9.0	229.1	227.7	225.4	222.1	218.0	213.4	208.3	203.6	197.9	193.0
12.0	231.3	229.8	226.9	222.5	216.9	210.9	204.1	197.8	189.6	182.8
15.0	233.0	231.3	227.6	222.0	215.0	207.4	198.9	190.8	180.2	170.4
18.0	233.9	232.1	227.6	220.9	212.3	203.1	192.8	182.4	169.2	157.4
21.0	234.3	232.3	227.0	219.2	208.9	197.9	185.8	173.2	157.3	143.4
24.0	234.6	232.3	226.0	216.9	205.0	192.0	178.1	163.3	144.9	128.7
27.0	234.9	232.3	224.8	214.1	200.4	185.5	169.6	152.9	132.0	115.6
30.0	235.5	232.4	223.6	211.0	195.4	178.4	160.6	141.9	119.1	103.0
33.0	236.7	233.0	222.5	207.8	189.9	170.8	151.3	130.4	106.5	91.04
36.0	238.5	234.1	221.8	204.6	184.1	163.1	141.9	118.9	94.69	79.65
39.0	240.8	235.8	221.5	201.4	178.4	155.4	132.4	107.9	83.68	69.20
42.0	243.6	237.9	221.5	198.5	172.7	147.7	122.9	96.94	73.27	59.82
45.0	246.8	240.3	221.8	195.9	167.1	140.1	113.4	86.17	63.30	51.16
48.0	249.9	242.7	222.2	193.3	161.6	132.3	104.1	75.57	54.25	43.33
51.0	252.8	244.7	222.2	190.7	156.3	124.4	94.74	65.37	46.23	36.50
54.0	257.2	247.7	221.8	187.9	150.9	116.6	85.52	55.75	38.85	30.54
57.0	261.3	250.9	222.0	184.4	145.2	108.8	76.86	46.91	32.25	25.17
60.0	263.3	252.5	221.3	180.1	139.1	101.1	68.54	38.86	26.52	20.65
63.0	260.0	249.8	218.4	175.5	132.3	93.27	60.27	31.52	21.58	16.87
66.0	246.7	238.8	210.4	168.6	124.8	85.31	52.31	25.03	17.26	13.66
69.0	218.4	214.4	193.3	158.1	117.0	77.13	44.79	19.54	13.69	10.88
72.0	173.8	173.9	163.1	141.0	106.9	68.70	37.04	14.90	10.68	8.578
75.0	120.4	122.8	121.1	114.2	93.85	59.80	29.36	11.13	8.130	6.546
78.0	71.38	74.12	76.27	79.61	74.72	50.26	21.57	8.000	5.979	4.692
81.0	34.58	36.76	39.08	44.82	48.60	39.43	13.72	5.433	3.980	3.236
84.0	9.541	10.96	12.94	17.72	22.50	24.93	7.442	3.291	2.383	1.846
87.0	0.4250	0.5346	0.6889	0.9266	3.395	7.764	3.700	1.430	0.9475	0.7215
90.0	0.1640	0.2033	0.2558	0.2514	0.2427	0.2186	0.2274	0.2514	0.3127	0.3520
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	212.1	212.1	216.0	215.6	214.8	214.4	213.8	213.4	213.1	213.1
3.0	206.5	205.9	210.5	209.7	209.9	210.1	211.1	211.9	213.0	214.1
6.0	198.3	196.7	201.0	200.3	201.9	203.7	206.5	208.8	211.5	214.1
9.0	188.4	185.7	189.2	189.0	191.9	194.9	199.8	204.3	208.7	212.7
12.0	175.7	171.9	174.8	174.9	179.2	184.5	191.5	198.5	204.7	210.3
15.0	161.8	157.1	159.2	159.7	165.1	171.8	182.1	191.3	199.6	206.8
18.0	147.1	141.9	143.5	144.2	150.1	158.5	170.9	182.8	193.6	202.6
21.0	132.5	127.0	128.3	129.5	135.3	144.3	158.8	173.5	186.6	197.4
24.0	118.8	113.6	114.5	115.7	120.8	130.2	146.3	163.5	178.9	191.6
27.0	105.7	100.6	101.3	102.5	107.5	116.6	133.0	152.9	170.5	185.0
30.0	93.20	88.22	88.81	89.76	94.78	103.9	119.7	141.7	161.6	178.0
33.0	81.41	77.02	77.41	78.43	82.73	91.80	107.2	130.4	152.4	170.5
36.0	70.77	66.42	66.58	67.50	71.96	80.28	95.40	119.1	143.0	162.8
39.0	60.61	56.56	56.58	57.35	61.87	69.72	84.36	108.1	133.8	155.2
42.0	51.50	47.69	47.58	48.35	52.66	60.18	74.04	97.11	123.8	147.5
45.0	43.46	39.80	39.41	40.28	44.50	51.47	64.26	86.23	114.4	139.9
48.0	36.43	32.58	31.99	32.99	37.30	43.66	55.21	75.64	105.0	132.4
51.0	30.10	26.45	25.76	26.78	30.87	36.81	47.14	65.23	95.60	124.7
54.0	24.74	21.39	20.58	21.60	25.40	30.83	39.70	55.71	86.47	117.0
57.0	20.31	17.18	16.33	17.34	20.87	25.44	33.05	47.02	77.76	109.1
60.0	16.56	13.70	12.82	13.84	17.09	20.95	27.28	39.02	69.49	101.4
63.0	13.42	10.96	10.17	11.08	13.87	17.14	22.30	31.77	61.31	93.67
66.0	10.88	8.787	8.057	8.898	11.31	13.94	17.93	25.41	53.37	85.65
69.0	8.751	7.000	6.354	7.117	9.116	11.13	14.30	19.95	45.91	77.46
72.0	6.839	5.350	4.818	5.443	7.168	8.834	11.26	15.40	38.27	68.92
75.0	5.118	4.095	3.685	4.149	5.385	6.760	8.616	11.62	30.66	59.96
78.0	3.802	3.071	2.758	3.110	4.018	4.865	6.384	8.426	23.05	50.45
81.0	2.552	2.053	1.840	2.084	2.728	3.367	4.340	5.822	15.32	39.91
84.0	1.439	1.176	1.060	1.199	1.548	1.937	2.637	3.558	8.749	26.39
87.0	0.5607	0.4669	0.4206	0.4787	0.6029	0.7749	1.076	1.591	4.534	9.430
90.0	0.3717	0.3761	0.3170	0.3323	0.3411	0.3083	0.2777	0.2165	0.3455	0.2427
G/C	300.0	315.0	330.0	345.0						
0.0	212.7	212.5	212.1	212.1						
3.0	215.1	216.0	216.5	216.9						
6.0	216.5	218.5	219.8	220.7						
9.0	216.6	219.9	222.2	223.5						
12.0	215.8	220.3	223.7	225.6						
15.0	214.0	219.9	224.5	227.0						
18.0	211.4	218.8	224.6	227.9						
21.0	208.2	217.2	224.2	228.1						

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-01-09

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:

## Photometric Data Table [cd]

24.0	204.3	214.9	223.2	228.0
27.0	199.8	212.1	222.0	228.0
30.0	194.8	209.0	220.7	228.0
33.0	189.4	205.8	219.6	228.6
36.0	183.6	202.5	218.8	229.6
39.0	177.9	199.3	218.4	231.2
42.0	172.2	196.3	218.3	233.2
45.0	166.7	193.5	218.5	235.5
48.0	161.2	190.9	218.7	237.8
51.0	155.8	188.2	218.7	239.7
54.0	150.4	185.3	218.2	242.4
57.0	144.7	181.9	218.0	245.3
60.0	138.6	177.5	217.2	246.8
63.0	131.7	172.8	214.5	244.2
66.0	124.1	165.8	207.4	233.6
69.0	116.1	155.7	192.0	210.2
72.0	106.6	139.6	164.4	171.5
75.0	94.29	114.7	124.0	122.2
78.0	76.80	81.42	80.07	74.36
81.0	52.47	46.88	42.53	37.16
84.0	26.04	19.59	15.49	11.76
87.0	5.786	1.183	0.6754	0.5112
90.0	0.2143	0.2143	0.2012	0.1815

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-01-09

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: