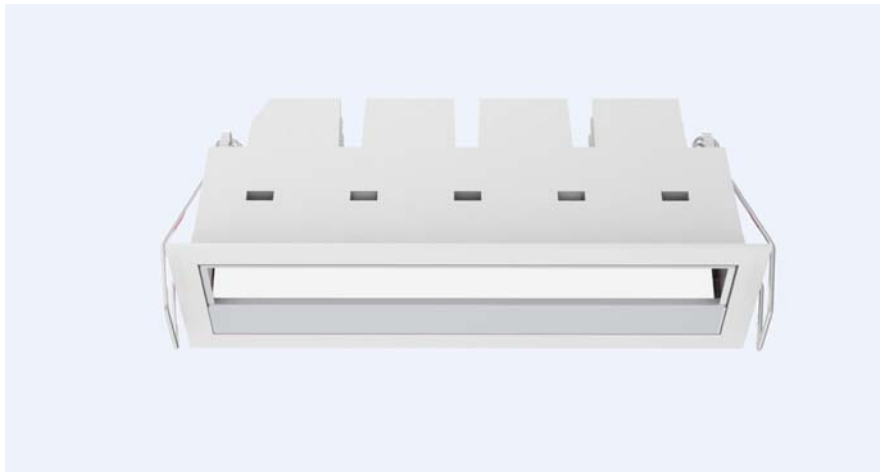


LED Downlight FUSION Series FW5-11W-840



Light Output Ratio:	100.0%	
Luminaire Power:	12.52 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.30	fine grid method.

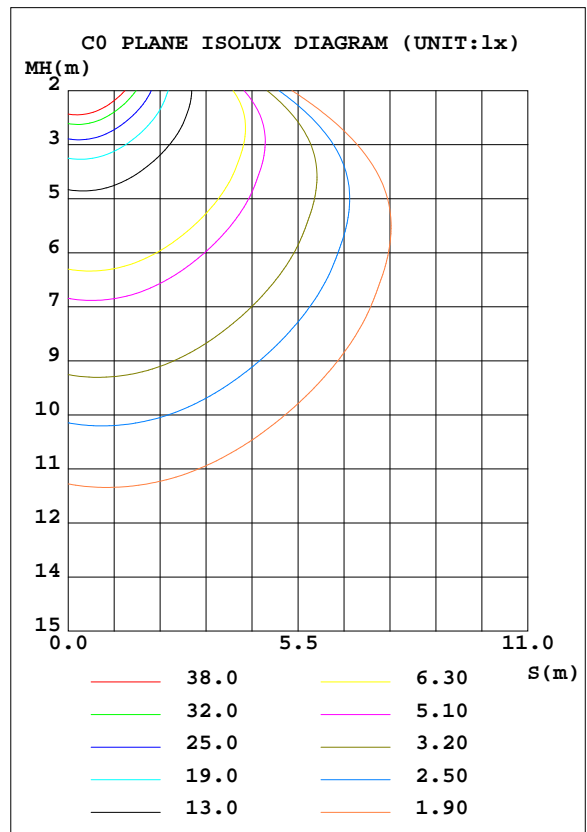
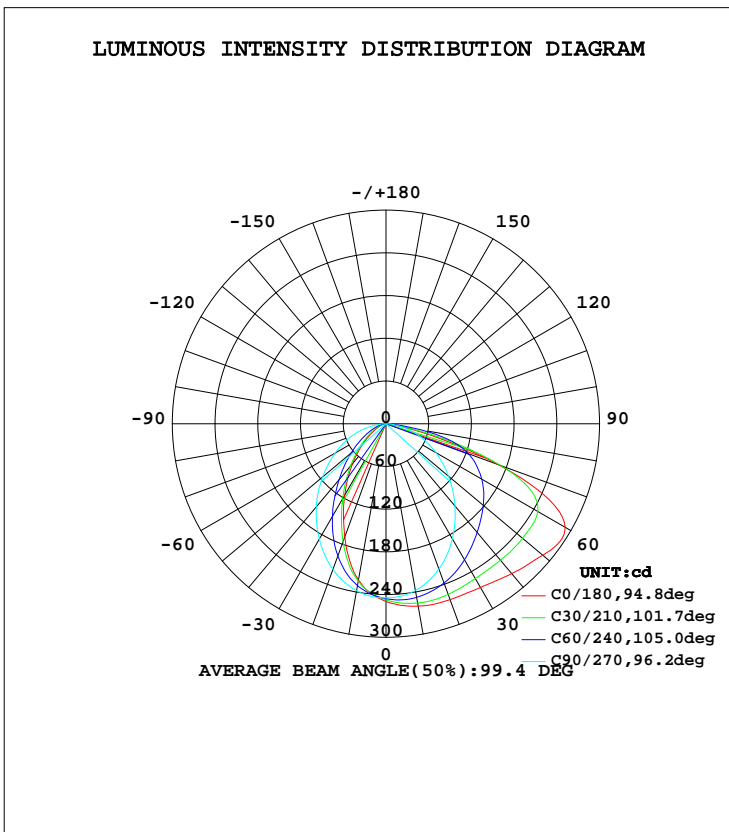
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-01-09

$\gamma$  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:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.0622A P:12.52W PF:0.9026 Lamp Flux:667.349x1 lm		
NAME: FW5-11W-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 53.30 lm/W			
MODEL	CREE-4000K	I <sub>max</sub> (cd)	295.2	S/MH(C0/180)	0.82
NOMINAL POWER(W)	13.0	LOR(%)	100.0	S/MH(C90/270)	1.15
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	667.35	η UP, DN(C0-180)	0.0, 52.9
NOMINAL FLUX(lm)	667.349	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 47.1
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



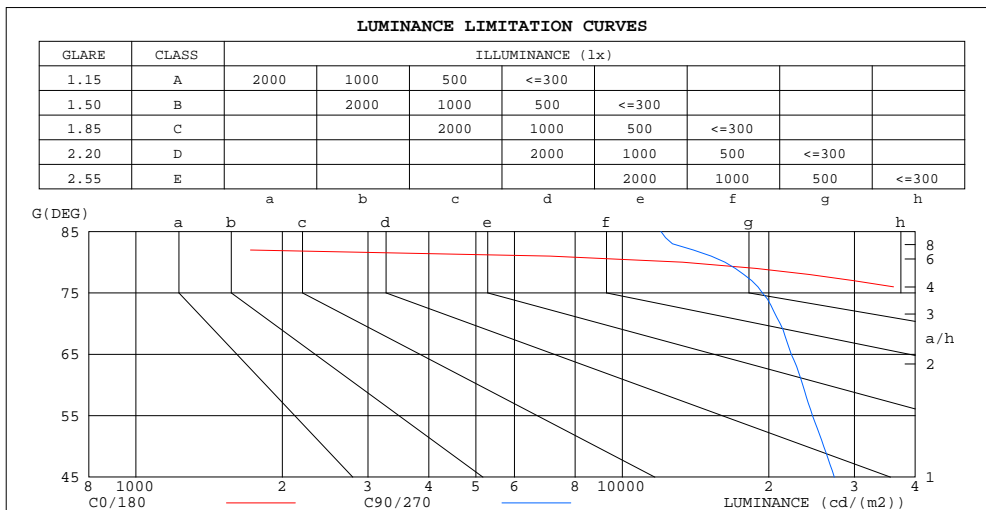
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-01-09

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	260.1	252.1	237.8	224.8	222.9	227.3	238.1	249.0	0- 10	23.10	23.10	3.46,3.46
20	262.8	247.7	217.4	183.3	169.2	185.0	217.9	244.8	10- 20	64.30	87.39	13.1,13.1
30	265.5	237.1	186.5	131.0	116.0	131.9	187.2	234.6	20- 30	92.59	180.0	27,27
40	274.8	226.0	150.8	85.48	73.05	86.17	152.2	223.9	30- 40	107.7	287.7	43.1,43.1
50	287.4	215.8	114.8	51.20	40.00	51.49	116.2	214.3	40- 50	113.4	401.1	60.1,60.1
60	290.4	200.7	80.85	27.82	18.88	28.01	82.62	199.3	50- 60	112.5	513.6	77,77
70	167.8	157.1	49.72	13.80	8.553	13.97	51.76	153.7	60- 70	97.92	611.5	91.6,91.6
80	15.90	37.46	19.43	5.614	3.582	5.686	20.96	34.46	70- 80	49.25	660.8	99,99
90	0.0853	0.1268	0.5204	0.6231	0.5947	0.5641	0.1509	0.0831	80- 90	6.563	667.3	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		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	519	12006
80	13301	16252
75	41567	19407
70	71269	21115
65	87023	22249
60	84365	23487
55	74576	24604
50	64947	25947
45	57633	27276

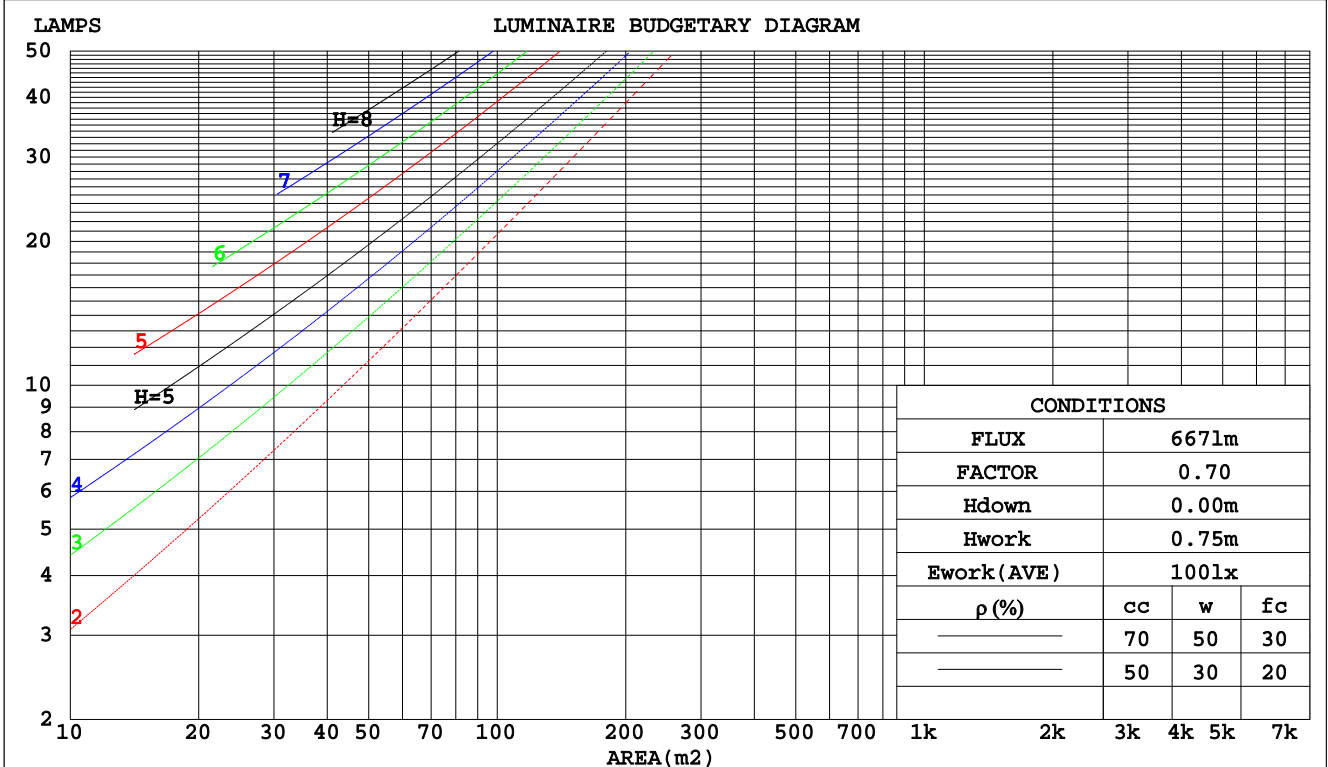
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-01-09

$\gamma$  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:220.7V I:0.0622A P:12.52W PF:0.9026 Lamp Flux:667.349x1 lm		
NAME: FW5-11W-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc																
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	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.94	.91	.88	.90	.88	.86	.84
2.0	.90	.83	.77	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.35	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.41	.33	.28	.40	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



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:220.7V I:0.0622A P:12.52W PF:0.9026 Lamp Flux:667.349x1 lm		
NAME: FW5-11W-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

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	.308	.175	.055	.301	.172	.055	.288	.165	.053	.275	.159	.051	.264	.153	.049	
2.0	.294	.161	.049	.288	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.046	
3.0	.273	.145	.044	.268	.143	.043	.257	.139	.042	.248	.136	.042	.239	.132	.041	
4.0	.252	.131	.039	.247	.129	.038	.238	.126	.038	.229	.123	.037	.222	.120	.037	
5.0	.233	.119	.034	.229	.117	.034	.220	.115	.034	.213	.112	.033	.206	.110	.033	
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.191	.101	.030	
7.0	.200	.099	.028	.197	.098	.028	.191	.096	.028	.184	.095	.028	.179	.093	.027	
8.0	.187	.091	.026	.184	.091	.026	.178	.089	.025	.173	.087	.025	.168	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.173	.132	.098	.148	.114	.084	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.011	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.019	.070	.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:220.7V I:0.0622A P:12.52W PF:0.9026 Lamp Flux:667.349x1 lm		
NAME: FW5-11W-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

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	30.7	32.2	30.9	32.4	32.6	26.0	27.5	26.3	27.7	27.9
3H	32.8	34.2	33.1	34.4	34.7	27.4	28.9	27.7	29.1	29.3
4H	33.1	34.4	33.4	34.7	35.0	28.0	29.4	28.3	29.6	29.9
6H	33.1	34.4	33.4	34.6	34.9	28.4	29.7	28.7	29.9	30.2
8H	33.0	34.3	33.4	34.5	34.8	28.5	29.7	28.8	30.0	30.3
12H	33.0	34.2	33.3	34.5	34.8	28.5	29.7	28.8	30.0	30.3
4H 2H	31.2	32.5	31.5	32.8	33.0	28.0	29.4	28.4	29.6	29.9
3H	33.4	34.6	33.8	34.9	35.2	29.7	30.9	30.1	31.2	31.5
4H	33.9	34.9	34.2	35.3	35.6	30.4	31.5	30.8	31.8	32.2
6H	33.9	34.9	34.3	35.2	35.6	30.9	31.9	31.3	32.3	32.6
8H	33.9	34.7	34.3	35.1	35.5	31.1	32.0	31.5	32.3	32.7
12H	33.8	34.6	34.2	35.0	35.4	31.1	32.0	31.6	32.3	32.7
8H 4H	34.0	34.9	34.4	35.3	35.7	31.1	32.0	31.6	32.4	32.8
6H	34.1	34.8	34.5	35.2	35.7	31.8	32.6	32.3	33.0	33.4
8H	34.1	34.7	34.5	35.1	35.6	32.0	32.7	32.5	33.1	33.6
12H	34.0	34.6	34.5	35.0	35.5	32.2	32.7	32.6	33.2	33.6
12H 4H	34.0	34.8	34.4	35.2	35.6	31.1	32.0	31.6	32.3	32.7
6H	34.1	34.7	34.5	35.2	35.6	31.8	32.5	32.3	32.9	33.4
8H	34.1	34.6	34.5	35.1	35.5	32.1	32.6	32.5	33.1	33.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.8 / - 0.9					+ 0.4 / - 0.7				

CIE Pub.117 Corrected 667.3 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.4)

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:220.7V I:0.0622A P:12.52W PF:0.9026 Lamp Flux:667.349x1 lm		
NAME: FW5-11W-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

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	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	55	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	55	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	99	91	85	97	89	84	93	87	82	73
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	101	96	104	99	95	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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

$\gamma$  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:

**ISOCANDELA DIAGRAM**

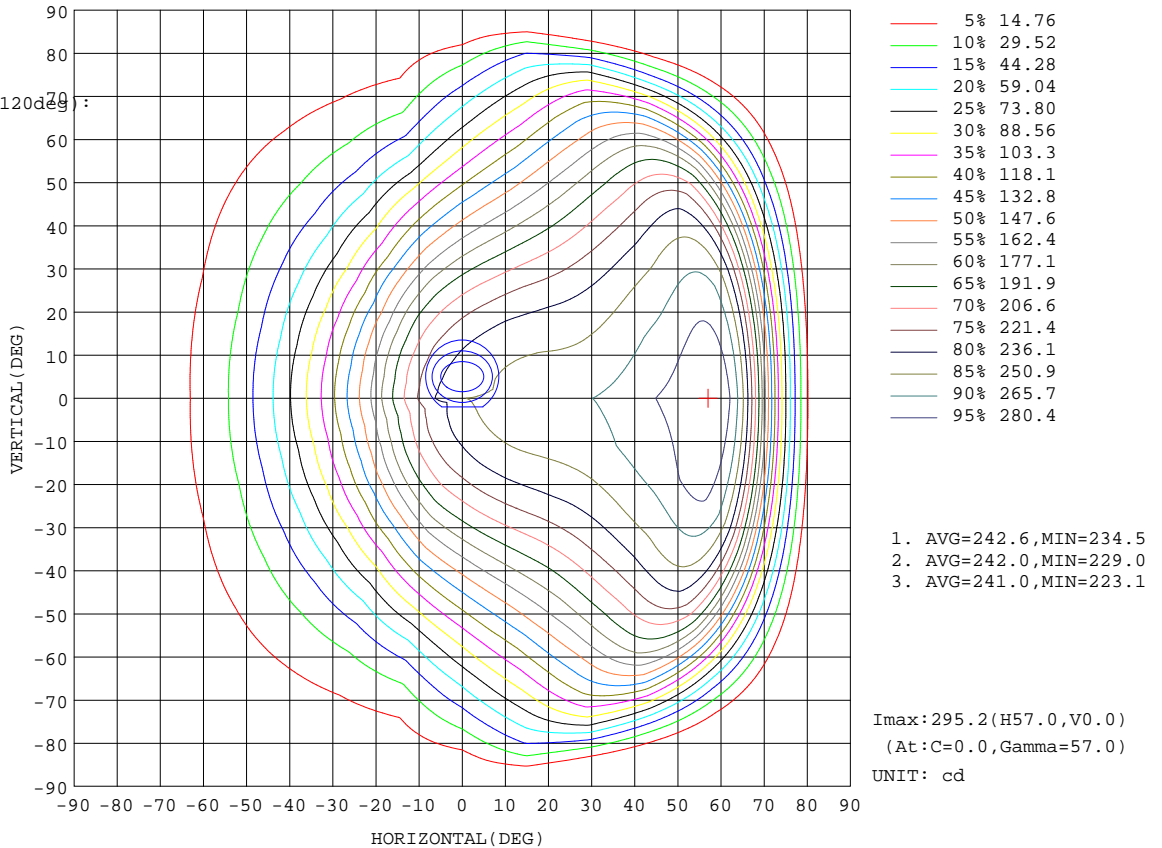
Test:U:220.7V I:0.0622A P:12.52W PF:0.9026 Lamp Flux:667.349x1 lm		
NAME: FW5-11W-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Conical surface Flux(90deg):

344.14 lm  
%lum = 51.6%  
%lamp = 51.6%

Conical surface Flux(120deg):

513.61 lm  
%lum = 77.0%  
%lamp = 77.0%



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

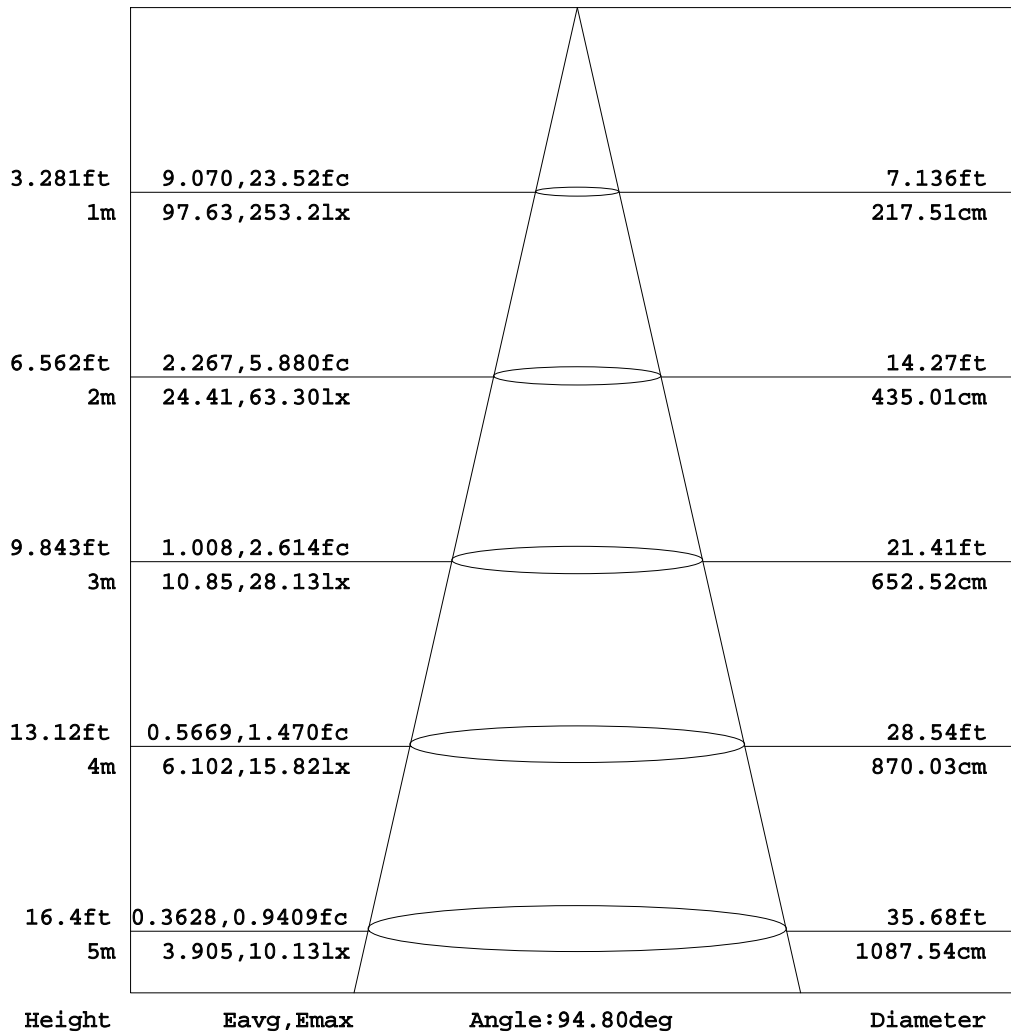
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:220.7V I:0.0622A P:12.52W PF:0.9026 Lamp Flux:667.349x1 lm		
NAME: FW5-11W-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Flux out:378.3 lm



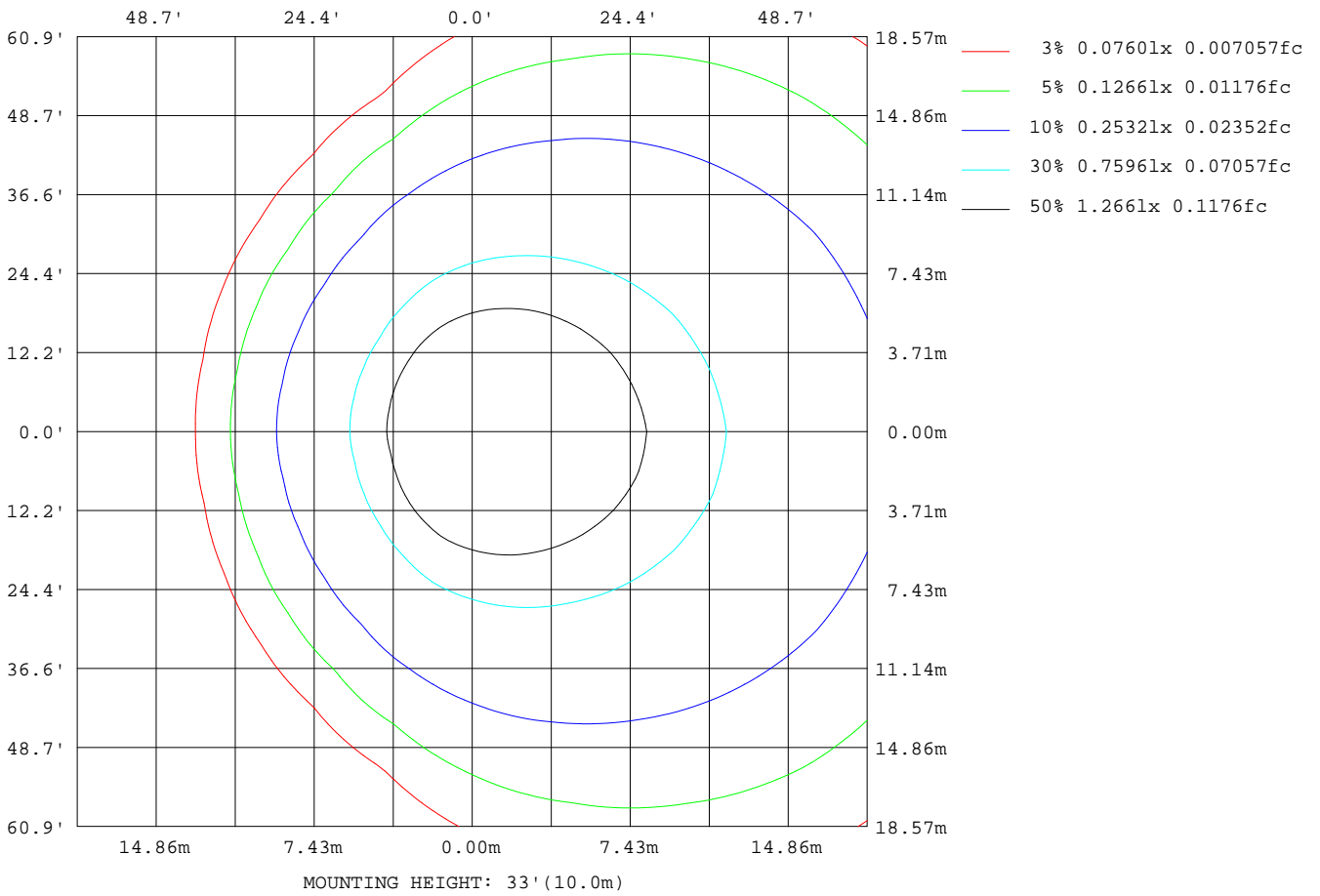
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**

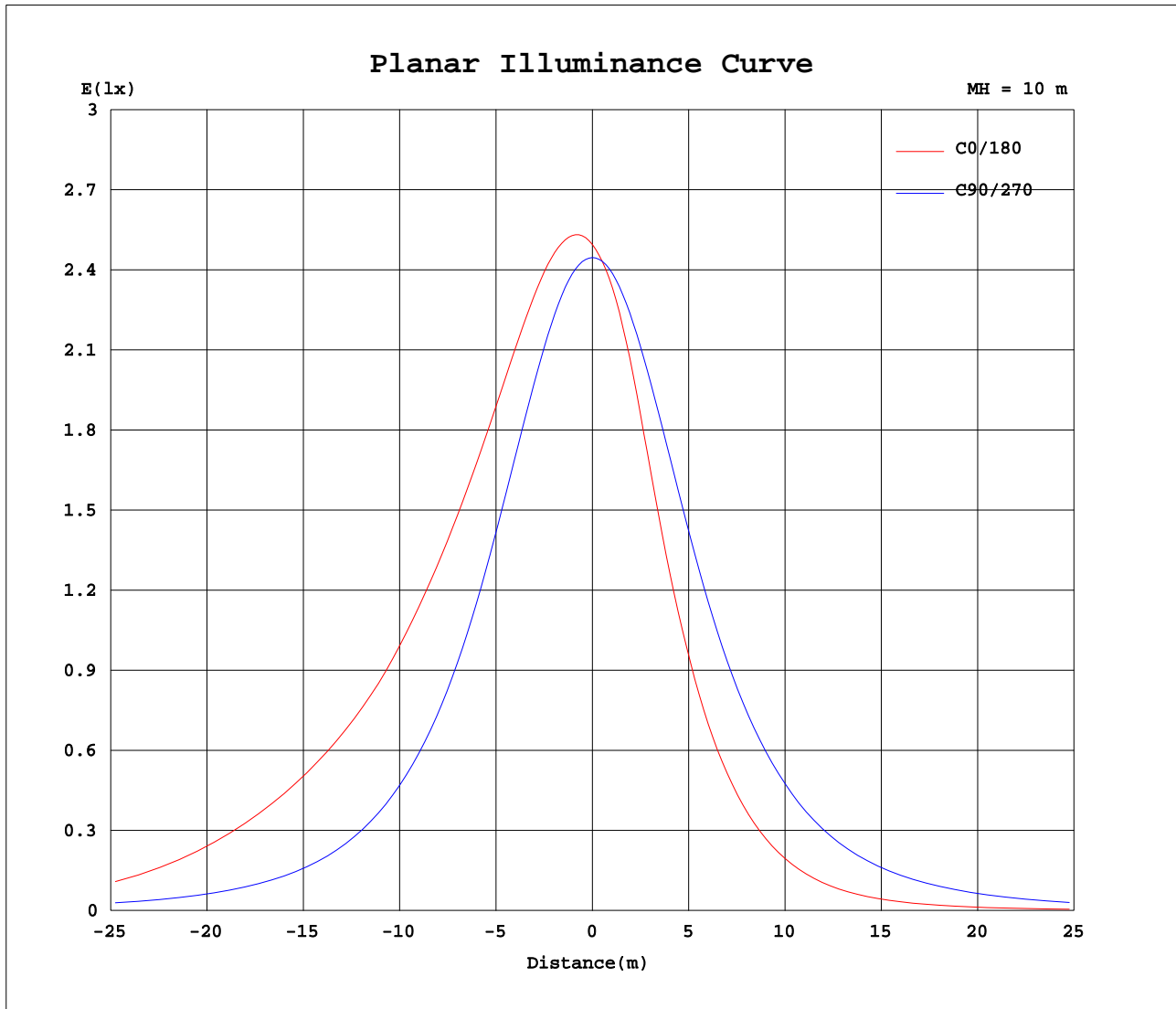
Test:U:220.7V I:0.0622A P:12.52W PF:0.9026 Lamp Flux:667.349x1 lm		
NAME: FW5-11W-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		



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:

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:220.7V I:0.0622A P:12.52W PF:0.9026 Lamp Flux:667.349x1 lm		
NAME: FW5-11W-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	250	248	247	246	246	245	245	244	244	243	243	243	250	248	247	246	246	245	245
5	256	254	253	251	248	246	243	241	238	236	234	233	240	238	239	239	240	242	243
10	260	258	256	252	248	243	238	233	229	225	220	217	223	222	225	227	231	234	238
15	262	260	256	251	244	237	229	222	214	207	199	194	198	198	203	209	217	223	229
20	263	261	255	248	238	228	217	208	196	183	173	166	169	170	176	185	198	208	218
25	264	261	253	243	230	217	203	190	173	157	145	139	142	142	148	159	175	191	204
30	266	261	251	237	221	204	187	170	149	131	120	114	116	117	122	132	151	171	187
35	269	264	250	231	210	189	169	149	124	107	96.6	92.0	93.4	94.0	98.3	108	126	150	170
40	275	268	250	226	199	175	151	128	101	85.5	76.4	72.1	73.0	73.6	77.8	86.2	102	128	152
45	281	272	251	221	189	160	133	107	81.1	67.1	58.5	54.7	55.2	55.7	59.9	67.5	82.1	107	135
50	287	277	250	216	178	145	115	86.1	62.8	51.2	43.9	40.1	40.0	40.8	45.0	51.5	63.8	86.8	116
55	295	282	250	209	168	130	97.2	66.4	47.4	38.3	31.9	28.3	27.8	28.8	32.9	38.5	48.2	66.6	98.8
60	290	279	246	201	155	115	80.9	49.1	34.6	27.8	22.9	19.6	18.9	20.0	23.7	28.0	35.2	49.4	82.6
65	253	249	226	186	141	99.3	64.7	34.4	24.5	19.8	16.3	13.4	12.6	13.7	16.9	20.0	25.0	34.7	66.8
70	168	173	172	157	123	83.2	49.7	22.7	16.7	13.8	11.4	9.26	8.55	9.53	11.9	14.0	17.1	23.0	51.8
75	74.1	80.4	89.3	101	96.3	65.8	34.6	14.2	11.0	9.31	7.69	6.10	5.58	6.32	8.06	9.44	11.3	14.4	36.4
80	15.9	19.3	25.3	37.5	50.4	46.2	19.4	8.14	6.67	5.61	4.73	3.91	3.58	4.02	4.96	5.69	6.85	8.25	21.0
85	0.31	0.40	0.55	0.90	7.59	17.8	7.20	3.79	3.21	2.86	2.43	2.05	1.89	2.10	2.52	2.83	3.26	3.74	8.00
90	0.09	0.10	0.13	0.13	0.12	0.13	0.52	0.48	0.60	0.62	0.62	0.57	0.59	0.59	0.57	0.56	0.46	0.32	0.15

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:220.7V I:0.0622A P:12.52W PF:0.9026 Lamp Flux:667.349x1 lm		
NAME: FW5-11W-840	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C( DEG) γ (DEG)	285	300	315	330	345													
0	244	244	243	243	243													
5	245	246	248	248	249													
10	242	246	249	251	253													
15	236	242	248	252	254													
20	227	237	245	251	255													
25	216	229	240	249	255													
30	203	220	235	247	256													
35	189	210	229	247	258													
40	175	199	224	247	262													
45	160	189	219	247	267													
50	146	179	214	247	271													
55	131	168	208	247	276													
60	116	156	199	243	273													
65	101	142	185	224	243													
70	84.6	123	154	170	168													
75	66.6	95.4	96.2	88.2	77.8													
80	46.0	48.6	34.5	25.2	18.5													
85	15.6	6.41	0.70	0.45	0.35													
90	0.10	0.09	0.08	0.08	0.07													

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 15.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Temperature:25.3DEG	Humidity:52%
Operators:Meng Yongjian	Test Distance:5.850m [K=1.0000]
Test Date:2017-01-09	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	249.5	248.2	247.3	246.4	245.8	245.1	244.6	244.2	243.7	243.4
3.0	253.8	252.3	250.9	249.3	247.6	245.9	244.1	242.4	240.7	239.4
6.0	257.0	255.4	253.6	251.2	248.4	245.5	242.4	239.5	236.5	234.3
9.0	259.5	257.8	255.3	252.0	248.0	243.8	239.2	235.1	230.9	227.6
12.0	261.2	259.4	256.2	251.9	246.4	240.8	234.8	229.3	223.6	218.0
15.0	262.2	260.3	256.4	250.9	244.0	236.8	229.1	222.2	214.4	206.8
18.0	262.6	260.5	255.8	249.2	240.7	231.9	222.4	213.9	203.5	193.3
21.0	263.0	260.5	254.7	246.8	236.7	226.0	214.7	204.5	191.5	178.5
24.0	263.3	260.5	253.4	243.8	232.0	219.3	206.1	194.1	178.0	162.7
27.0	264.1	260.7	252.1	240.6	226.6	211.9	196.6	182.7	163.7	146.7
30.0	265.5	261.5	251.0	237.1	220.7	203.8	186.5	170.3	149.1	131.0
33.0	267.6	262.8	250.3	233.6	214.3	195.2	176.0	157.7	134.2	116.1
36.0	270.3	264.7	250.0	230.2	207.9	186.5	165.2	145.1	119.6	102.5
39.0	273.6	267.1	250.1	227.0	201.4	177.7	154.4	132.1	105.9	89.68
42.0	277.2	269.8	250.3	224.0	195.0	168.9	143.6	119.1	93.06	77.61
45.0	280.6	272.4	250.7	221.0	188.7	160.1	132.8	106.6	81.13	67.05
48.0	284.0	274.7	250.7	218.0	182.6	151.3	122.0	94.29	69.91	57.19
51.0	289.1	278.2	250.1	214.7	176.4	142.4	111.3	82.08	59.43	48.36
54.0	293.5	281.5	250.2	210.7	169.9	133.6	100.6	70.25	50.26	40.63
57.0	295.2	283.0	249.3	205.9	162.9	123.8	90.47	59.15	41.97	33.88
60.0	290.4	279.5	246.0	200.7	155.3	114.6	80.85	49.06	34.55	27.82
63.0	273.7	266.3	237.3	193.2	146.8	105.5	71.36	40.02	28.20	22.75
66.0	239.7	237.9	218.7	182.3	137.5	96.15	61.67	31.86	22.77	18.52
69.0	187.7	191.8	185.9	164.9	127.2	86.46	52.80	24.79	18.07	14.92
72.0	127.7	134.8	139.6	138.1	114.2	76.41	43.57	18.94	14.21	11.84
75.0	74.07	80.38	89.30	100.5	96.28	65.80	34.58	14.18	10.98	9.306
78.0	34.72	39.20	46.66	60.59	70.81	54.64	25.44	10.30	8.250	7.017
81.0	7.649	10.99	16.56	27.52	40.32	41.54	16.41	7.157	5.918	5.015
84.0	0.4156	0.5518	0.7994	4.134	14.29	24.42	8.832	4.573	3.801	3.393
87.0	0.1431	0.1809	0.2661	0.3551	0.5933	6.031	4.547	2.335	2.064	1.862
90.0	0.0853	0.1006	0.1290	0.1268	0.1246	0.1334	0.5204	0.4810	0.6013	0.6231
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	242.9	242.8	249.5	248.2	247.3	246.4	245.8	245.1	244.6	244.2
3.0	238.1	237.5	244.0	242.8	242.5	242.4	242.9	243.4	244.2	244.9
6.0	232.0	230.8	237.0	235.9	236.5	237.1	238.7	240.3	242.6	244.5
9.0	223.6	221.2	226.8	226.1	228.2	230.1	233.0	235.8	239.4	242.8
12.0	212.7	209.4	214.3	213.9	217.1	220.3	225.8	229.9	235.0	239.8
15.0	198.9	194.2	198.3	198.3	203.1	208.9	216.7	222.7	229.5	235.8
18.0	183.5	177.9	181.1	181.7	187.5	195.2	205.5	214.3	222.9	230.9
21.0	166.9	160.8	163.4	164.1	170.7	180.0	193.6	204.9	215.2	225.1
24.0	150.3	144.6	146.9	147.4	153.7	164.0	179.9	194.3	206.6	218.4
27.0	134.6	129.2	131.2	131.8	137.5	147.7	165.4	182.9	197.3	211.1
30.0	119.9	114.5	116.0	117.0	121.9	131.9	150.7	170.5	187.2	203.1
33.0	105.8	100.4	101.9	102.6	107.6	117.2	135.9	157.9	176.9	194.7
36.0	92.27	87.86	89.21	89.73	93.85	103.3	120.7	145.4	166.3	186.1
39.0	80.32	75.95	76.98	77.55	81.67	90.38	106.9	132.7	155.7	177.6
42.0	68.95	64.74	65.57	65.93	70.28	78.26	94.07	120.0	145.1	169.0
45.0	58.48	54.70	55.21	55.68	59.86	67.54	82.11	107.4	134.6	160.4
48.0	49.36	45.65	45.82	46.49	50.55	57.53	70.92	95.09	123.3	151.8
51.0	41.36	37.46	37.24	38.13	42.42	48.64	60.42	82.77	112.6	143.0
54.0	34.17	30.38	29.96	30.92	35.09	40.86	51.12	70.81	102.2	134.1
57.0	28.03	24.51	23.87	24.98	28.83	34.09	42.74	59.50	92.18	125.1
60.0	22.93	19.62	18.88	20.01	23.68	28.01	35.20	49.39	82.62	116.1
63.0	18.69	15.67	14.81	15.99	19.36	22.94	28.78	40.30	73.12	107.0
66.0	15.11	12.45	11.67	12.77	15.72	18.68	23.30	32.06	63.78	97.60
69.0	12.23	9.971	9.245	10.24	12.75	15.09	18.50	25.00	54.86	87.89
72.0	9.818	7.942	7.315	8.210	10.27	12.00	14.58	19.18	45.65	77.74
75.0	7.694	6.101	5.577	6.316	8.061	9.435	11.30	14.37	36.41	66.58
78.0	5.757	4.678	4.273	4.816	6.037	7.104	8.503	10.46	27.19	54.96
81.0	4.275	3.539	3.241	3.630	4.472	5.051	6.067	7.245	17.84	40.86
84.0	2.892	2.408	2.211	2.464	2.998	3.373	3.889	4.582	9.841	22.39
87.0	1.638	1.414	1.318	1.446	1.669	1.808	2.014	2.217	4.769	4.249
90.0	0.6188	0.5729	0.5947	0.5947	0.5707	0.5641	0.4592	0.3170	0.1509	0.1050
G/C	300.0	315.0	330.0	345.0						
0.0	243.7	243.4	242.9	242.8						
3.0	245.6	246.3	246.5	246.8						
6.0	246.5	248.1	249.2	249.8						
9.0	246.1	248.9	251.0	252.1						
12.0	244.7	248.8	252.0	253.6						
15.0	242.4	247.9	252.2	254.5						
18.0	239.3	246.3	251.7	254.7						
21.0	235.4	244.0	250.7	254.7						

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	230.8	241.1	249.6	254.7
27.0	225.6	237.9	248.4	254.9
30.0	219.8	234.6	247.3	255.6
33.0	213.7	231.2	246.7	257.0
36.0	207.4	228.0	246.5	258.8
39.0	201.2	224.9	246.7	261.3
42.0	195.0	222.0	247.1	264.0
45.0	189.0	219.2	247.5	266.6
48.0	183.0	216.3	247.6	268.8
51.0	177.0	213.1	247.1	272.2
54.0	170.7	209.3	247.3	275.5
57.0	163.9	204.6	246.5	276.9
60.0	156.4	199.3	243.3	273.3
63.0	147.9	191.6	234.7	260.0
66.0	138.8	180.2	216.4	231.8
69.0	127.6	161.9	184.1	186.2
72.0	114.1	133.8	138.0	130.4
75.0	95.44	96.15	88.20	77.83
78.0	69.10	56.64	46.35	37.75
81.0	38.60	24.91	16.60	10.41
84.0	12.95	2.546	0.6988	0.4859
87.0	0.4305	0.2617	0.1783	0.1452
90.0	0.0853	0.0831	0.0787	0.0722

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: