

LED Downlight FUSION Series FF1-2W-840-24D Black



Light Output Ratio:	100.0%	
Luminaire Power:	3.166 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

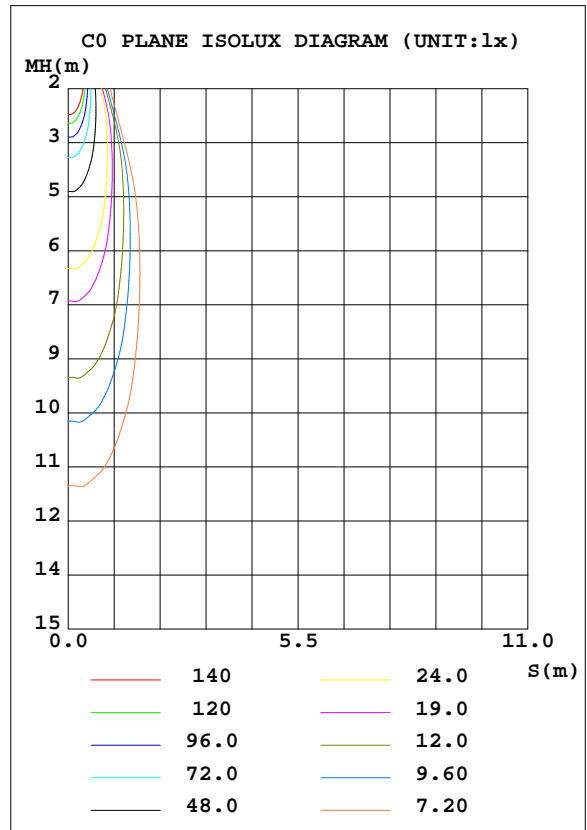
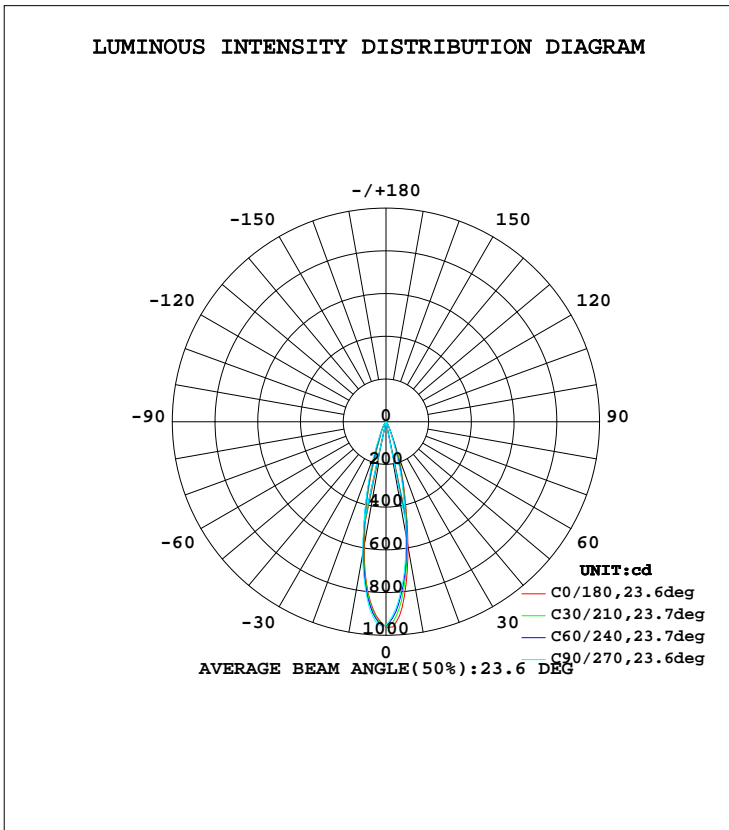
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-14

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:220.7V I:0.0202A P:3.166W PF:0.7098 Lamp Flux:192.044x1 lm		
NAME: FF1-2W-840-24D Black	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L45mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 60.66 lm/W
MODEL	CREE-4000K	I _{max} (cd)	962.8	S/MH(C0/180)	0.40	
NOMINAL POWER(W)	3.0	LOR(%)	100.0	S/MH(C90/270)	0.43	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	192.04	η UP, DN(C0-180)	0.0, 47.6	
NOMINAL FLUX(lm)	192.044	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 52.4	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.00	



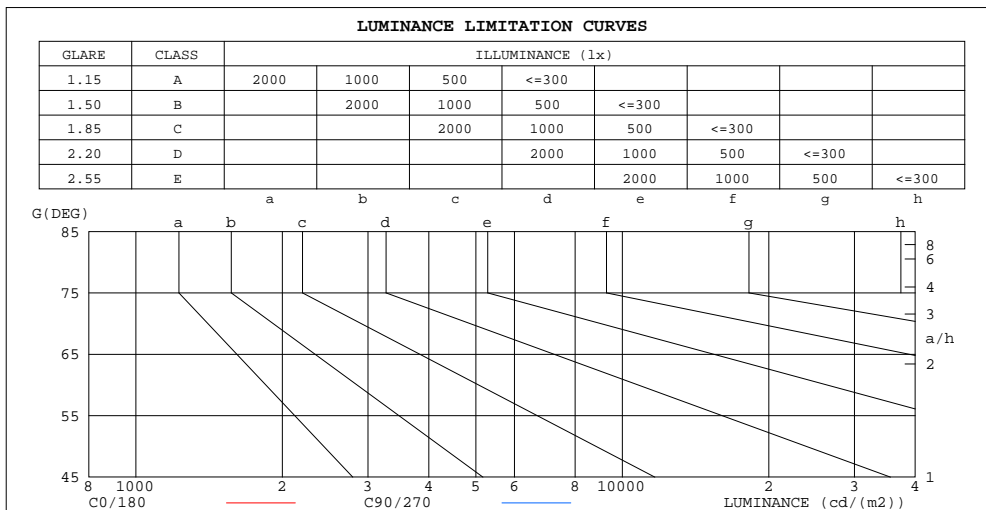
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	591.2	570.0	542.7	553.4	586.0	602.1	629.1	616.2	0- 10	72.35	72.35	37.7,37.7
20	161.9	141.8	113.3	100.1	100.5	124.8	155.5	175.6	10- 20	86.53	158.9	82.7,82.7
30	24.64	24.38	25.45	26.68	28.49	30.25	29.14	27.63	20- 30	27.54	186.4	97.1,97.1
40	1.342	1.050	0.8814	0.9440	1.037	1.102	1.159	1.470	30- 40	5.410	191.8	99.9,99.9
50	0.0723	0.0393	0.0591	0.0611	0.0589	0.0700	0.0415	0.0766	40- 50	0.1664	192.0	100,100
60	0.0307	0.0087	0.0219	0.0065	0.0066	0.0284	0	0.0306	50- 60	0.0314	192.0	100,100
70	0.0197	0.0022	0.0131	0.0022	0	0.0109	0	0.0131	60- 70	0.0101	192.0	100,100
80	0.0066	0.0022	0.0087	0.0022	0	0.0044	0	0.0066	70- 80	0.0056	192.0	100,100
90	0.0044	0.0022	0.0022	0.0022	0	0	0	0	80- 90	0.0029	192.0	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	37	12
80	19	25
75	25	17
70	28	19
65	28	20
60	30	22
55	40	30
50	56	45
45	92	73

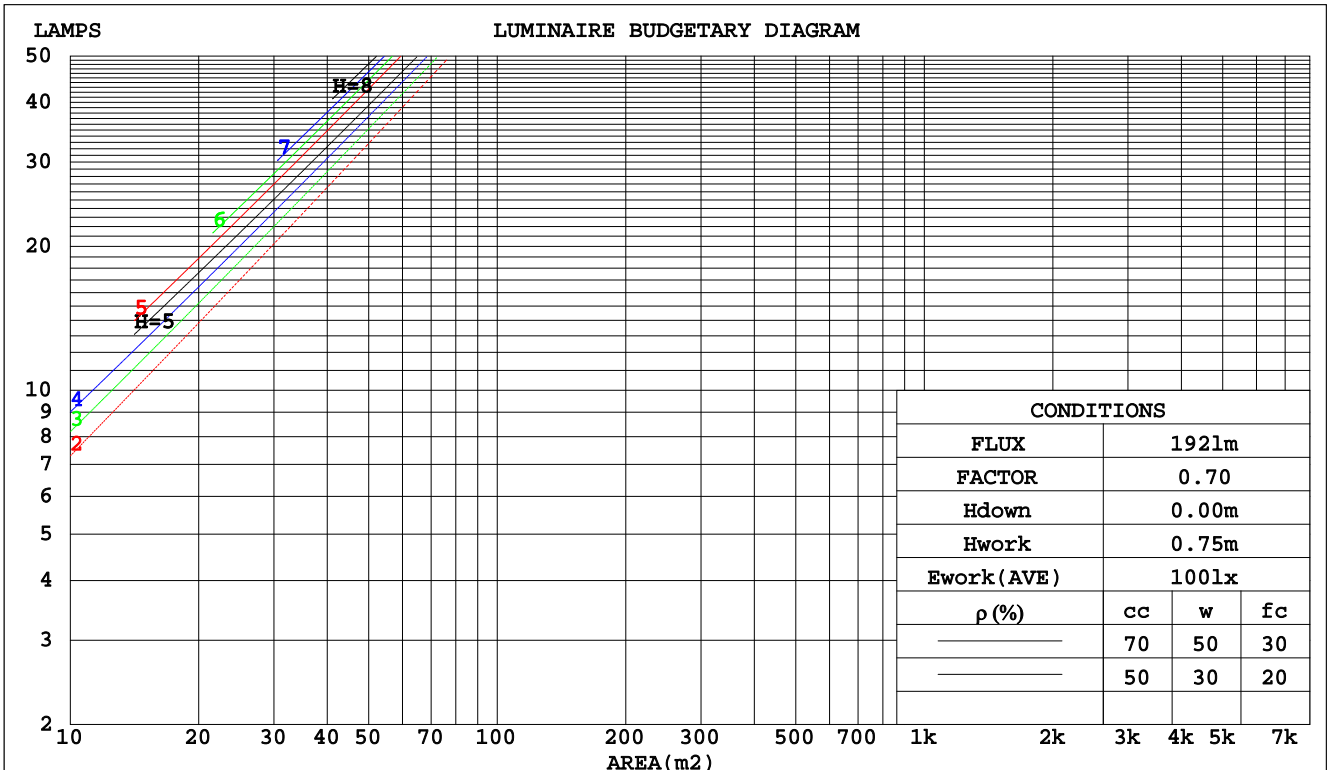
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Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0202A P:3.166W PF:0.7098 Lamp Flux:192.044x1 lm		
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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	1.00
1.0	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.02	1.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.06	1.04	1.02	1.03	1.01	.99	1.00	.99	.97	.98	.97	.95	.94
3.0	1.04	1.00	.98	1.02	.99	.97	.90	.97	.95	.98	.96	.94	.96	.94	.92	.91
4.0	.90	.96	.93	.99	.95	.93	.97	.94	.92	.95	.93	.91	.93	.91	.90	.89
5.0	.96	.93	.90	.96	.92	.89	.94	.91	.89	.93	.90	.88	.91	.89	.87	.86
6.0	.93	.89	.87	.93	.89	.86	.91	.88	.86	.90	.87	.85	.89	.87	.85	.84
7.0	.91	.87	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.87	.84	.82	.81
8.0	.88	.84	.81	.87	.84	.81	.87	.83	.81	.86	.83	.81	.85	.82	.80	.79
9.0	.86	.82	.79	.85	.81	.79	.84	.81	.79	.84	.81	.78	.83	.80	.78	.77
10.0	.83	.79	.77	.83	.79	.77	.82	.79	.77	.82	.79	.76	.81	.78	.76	.75



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WEC AND CCEC

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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	.132	.075	.024	.126	.072	.023	.114	.065	.021	.102	.059	.019	.092	.053	.017	
2.0	.122	.067	.021	.117	.064	.020	.107	.059	.018	.097	.055	.017	.089	.050	.016	
3.0	.114	.061	.018	.109	.059	.018	.101	.055	.017	.093	.051	.016	.086	.047	.015	
4.0	.106	.055	.016	.103	.054	.016	.096	.051	.015	.089	.048	.014	.083	.045	.014	
5.0	.100	.051	.015	.097	.050	.015	.091	.047	.014	.085	.045	.013	.080	.043	.013	
6.0	.095	.048	.014	.092	.046	.013	.087	.045	.013	.082	.043	.013	.077	.041	.012	
7.0	.090	.045	.013	.088	.044	.012	.083	.042	.012	.079	.040	.012	.075	.039	.011	
8.0	.086	.042	.012	.084	.041	.012	.080	.040	.011	.076	.039	.011	.073	.037	.011	
9.0	.082	.040	.011	.080	.039	.011	.077	.038	.011	.073	.037	.011	.070	.036	.010	
10.0	.079	.038	.010	.077	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	

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	.168	.158	.148	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.119	.128	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.134	.113	.096	.115	.098	.084	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.122	.098	.080	.104	.085	.069	.072	.059	.049	.042	.034	.029	.013	.011	.009	
5.0	.111	.085	.067	.095	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.102	.075	.056	.088	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.094	.067	.048	.081	.058	.042	.056	.041	.030	.033	.024	.018	.011	.008	.006	
8.0	.088	.060	.041	.076	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.082	.055	.036	.071	.047	.031	.049	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.077	.050	.032	.067	.043	.028	.046	.030	.020	.027	.018	.012	.009	.006	.004	

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

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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	2.4	3.0	2.6	3.2	3.3	1.7	2.3	1.9	2.5	2.6
3H	2.3	2.8	2.5	3.0	3.2	1.5	2.1	1.8	2.3	2.5
4H	2.2	2.7	2.4	2.9	3.2	1.5	2.0	1.7	2.2	2.4
6H	2.1	2.6	2.4	2.9	3.1	1.4	1.9	1.7	2.1	2.4
8H	2.1	2.6	2.4	2.8	3.1	1.3	1.8	1.6	2.1	2.3
12H	2.0	2.5	2.3	2.8	3.0	1.3	1.8	1.6	2.0	2.3
4H 2H	2.2	2.7	2.4	2.9	3.2	1.5	2.0	1.7	2.2	2.4
3H	2.0	2.5	2.3	2.8	3.0	1.3	1.8	1.6	2.0	2.3
4H	1.9	2.4	2.3	2.7	3.0	1.2	1.6	1.5	1.9	2.2
6H	1.8	2.2	2.2	2.5	2.9	1.1	1.5	1.5	1.8	2.2
8H	1.8	2.1	2.1	2.5	2.8	1.0	1.4	1.4	1.8	2.1
12H	1.7	2.0	2.1	2.4	2.8	1.0	1.3	1.4	1.7	2.1
8H 4H	1.8	2.1	2.1	2.5	2.8	1.0	1.4	1.4	1.8	2.1
6H	1.6	2.0	2.1	2.3	2.8	0.9	1.2	1.3	1.6	2.0
8H	1.6	1.9	2.0	2.3	2.7	0.9	1.1	1.3	1.5	2.0
12H	1.5	1.8	2.0	2.2	2.7	0.8	1.0	1.3	1.5	1.9
12H 4H	1.7	2.0	2.1	2.4	2.8	1.0	1.3	1.4	1.7	2.1
6H	1.6	1.9	2.0	2.3	2.7	0.9	1.1	1.3	1.5	2.0
8H	1.5	1.8	2.0	2.2	2.7	0.8	1.0	1.3	1.5	1.9
Variations with the observer position at spacings:										
S = 1.0H	+ 4.2 / -15.3					+ 4.2 / -15.3				
1.5H	+ 6.9 / -14.5					+ 7.0 / -14.0				
2.0H	+ 4.6 / - 4.1					+ 4.3 / - 2.9				

CIE Pub.117 Corrected 192.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -5.7)

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 γ Interval: 1.0DEG
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UTILIZATION FACTORS TABLE

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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	92	86	83	91	86	82	90	85	82	79
0.80	98	93	90	98	93	90	97	92	90	86
1.00	102	97	94	101	97	94	100	96	93	90
1.25	106	101	98	105	100	98	103	99	97	93
1.50	108	104	101	107	103	100	105	102	99	95
2.00	110	106	103	109	105	103	106	103	101	96
2.50	111	108	105	110	107	105	107	104	103	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	111	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	108	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

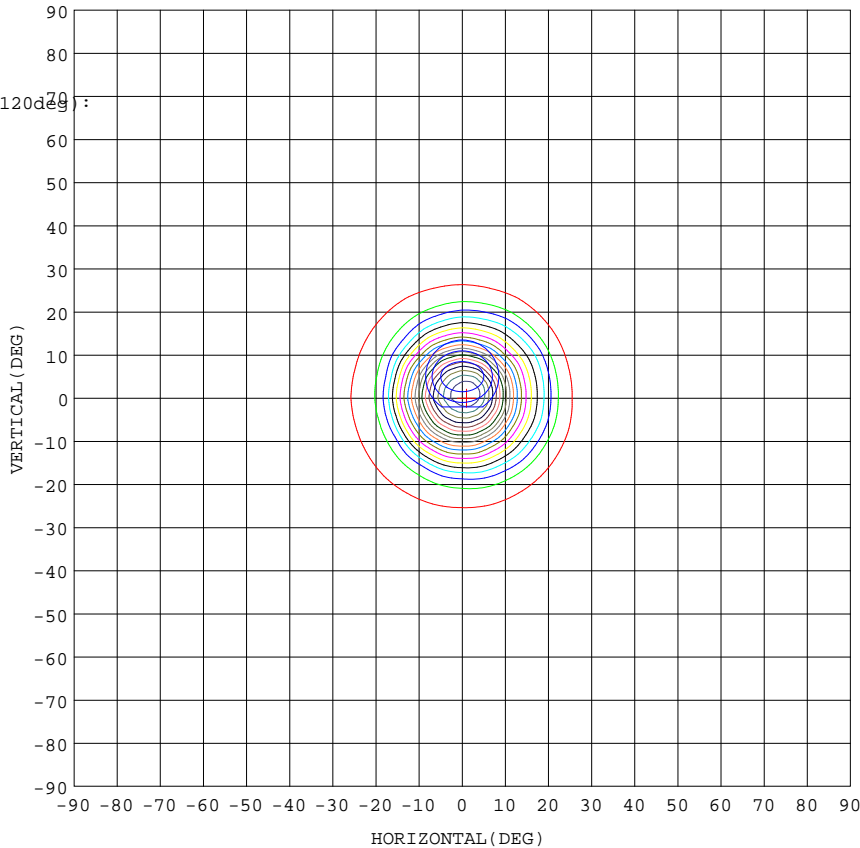
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Conical surface Flux(90deg):

191.96 lm
%lum = 100.0%
%lamp = 100.0%

Conical surface Flux(120deg):

192.03 lm
%lum = 100.0%
%lamp = 100.0%



- 5% 48.12
- 10% 96.23
- 15% 144.4
- 20% 192.5
- 25% 240.6
- 30% 288.7
- 35% 336.8
- 40% 384.9
- 45% 433.1
- 50% 481.2
- 55% 529.3
- 60% 577.4
- 65% 625.5
- 70% 673.6
- 75% 721.8
- 80% 769.9
- 85% 818.0
- 90% 866.1
- 95% 914.2

1. AVG=841.1, MIN=708.7
2. AVG=799.3, MIN=565.8
3. AVG=745.3, MIN=421.6

Imax:962.3(H1.0,V0.0)
(At:C=330.0,Gamma=2.0)
UNIT: cd

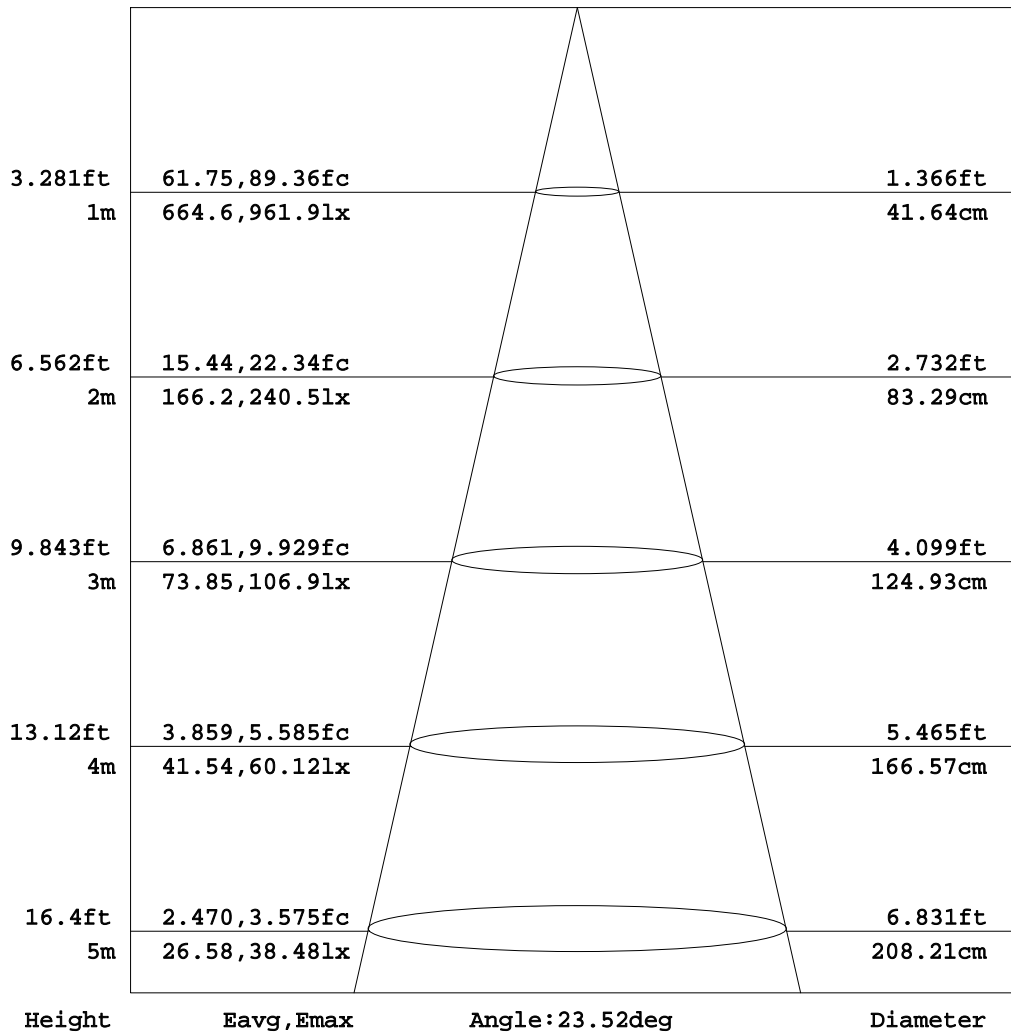
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AAI Figure

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Flux out:94.33 lm



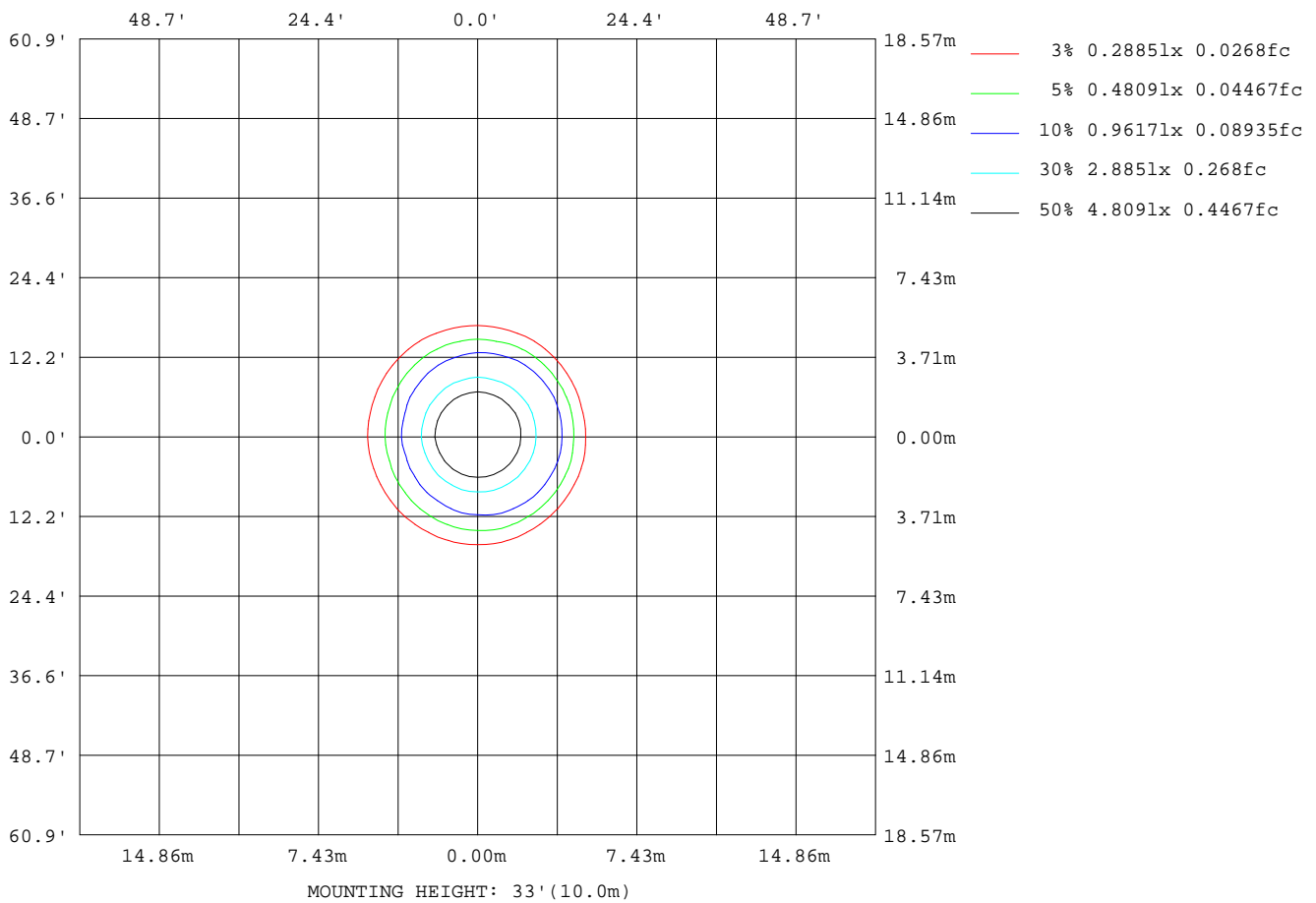
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

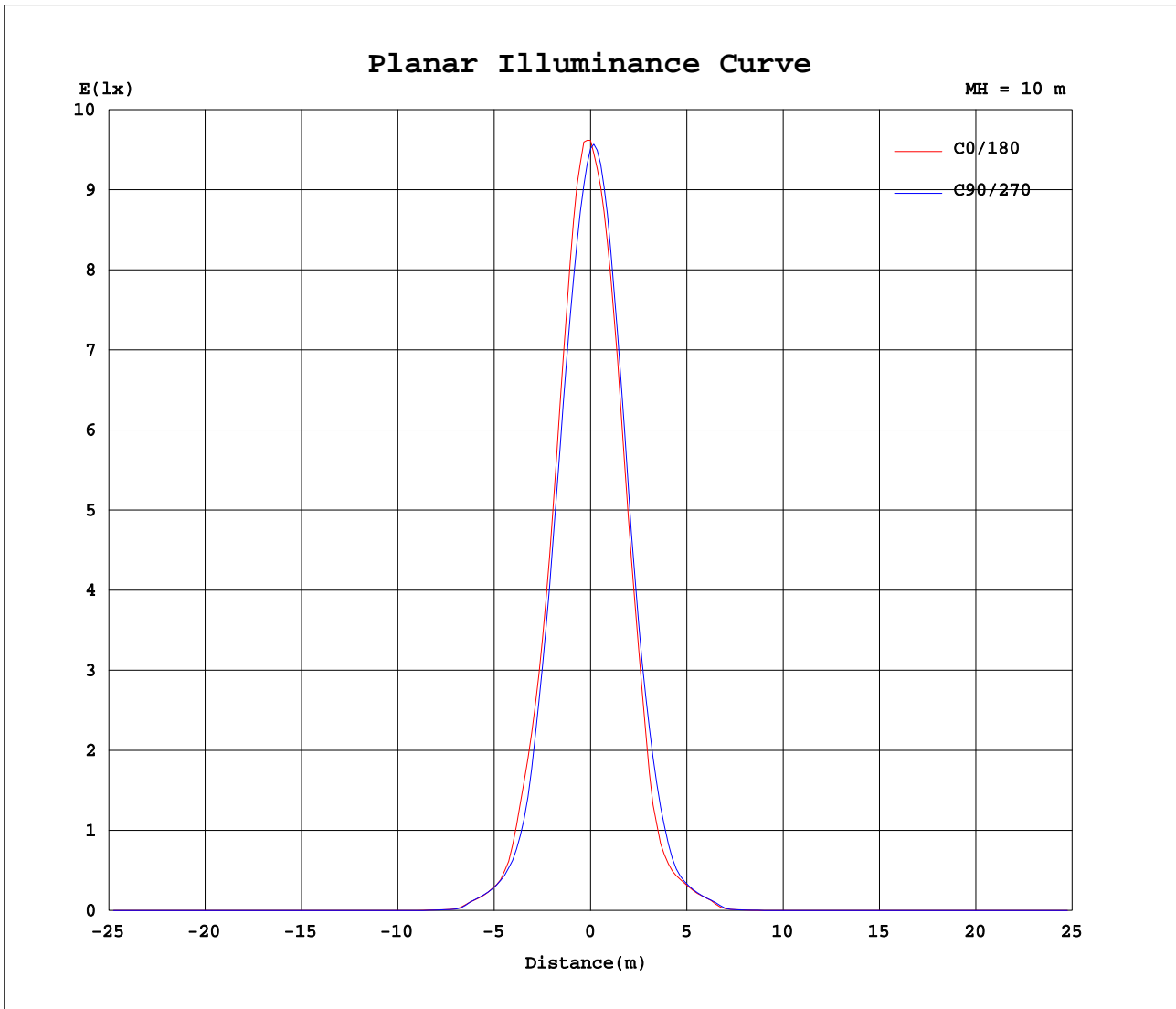
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Planar Illuminance Curve



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 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.0202A P:3.166W PF:0.7098 Lamp Flux:192.044x1 lm		
NAME: FF1-2W-840-24D Black	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L45mm*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	962	958	957	956	954	954	951	954	951	954	951	954	962	958	957	956	954	954	951
5	872	862	840	831	813	809	799	801	801	810	814	825	844	844	853	854	863	866	880
10	591	589	575	570	555	552	543	548	545	553	554	565	586	586	603	602	617	616	629
15	328	325	315	312	301	299	290	291	283	288	283	289	306	306	320	323	337	337	345
20	162	158	147	142	129	125	113	109	102	100	96.2	95.4	100	104	115	125	141	145	156
25	51.6	53.2	52.0	51.2	51.1	51.8	50.7	50.8	50.1	50.3	50.2	50.4	52.1	51.6	53.2	55.0	57.0	56.7	57.8
30	24.6	25.4	24.6	24.4	24.4	25.4	25.4	26.1	25.9	26.7	26.5	27.1	28.5	28.7	29.8	30.2	30.4	29.1	29.1
35	3.92	4.14	3.89	3.93	3.61	3.64	3.45	3.71	3.63	3.83	3.75	3.89	4.43	4.15	4.59	4.66	4.89	4.84	5.30
40	1.34	1.31	1.21	1.05	1.02	0.97	0.88	0.89	0.89	0.94	0.92	0.95	1.04	0.94	1.08	1.10	1.19	1.05	1.16
45	0.13	0.11	0.13	0.09	0.10	0.08	0.11	0.10	0.14	0.12	0.14	0.13	0.12	0.13	0.10	0.12	0.09	0.11	0.09
50	0.07	0.05	0.07	0.04	0.05	0.04	0.06	0.04	0.07	0.06	0.08	0.07	0.06	0.07	0.05	0.07	0.04	0.07	0.04
55	0.05	0.03	0.04	0.02	0.03	0.02	0.04	0.02	0.04	0.03	0.05	0.03	0.03	0.05	0.03	0.04	0.02	0.04	0.02
60	0.03	0.02	0.03	0.01	0.02	0.00	0.02	0.01	0.03	0.01	0.03	0.01	0.01	0.03	0.00	0.03	0.00	0.03	0.00
65	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.00	0.02	0.00	0.02	0.00	0.02	0.00
70	0.02	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00
75	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00
80	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-14

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:0.0202A P:3.166W PF:0.7098 Lamp Flux:192.044x1 lm		
NAME: FF1-2W-840-24D Black	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L45mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345											
0	954	951	954	951	954											
5	884	893	891	896	886											
10	620	626	616	620	606											
15	341	347	342	346	334											
20	161	173	176	179	169											
25	57.3	59.6	57.6	55.8	52.8											
30	28.4	28.8	27.6	26.4	24.9											
35	5.15	5.75	4.96	5.02	4.34											
40	1.28	1.56	1.47	1.69	1.37											
45	0.12	0.10	0.14	0.12	0.13											
50	0.07	0.04	0.08	0.06	0.08											
55	0.04	0.03	0.05	0.03	0.05											
60	0.02	0.00	0.03	0.01	0.03											
65	0.02	0.00	0.02	0.00	0.02											
70	0.01	0.00	0.01	0.00	0.01											
75	0.01	0.00	0.01	0.00	0.01											
80	0.00	0.00	0.01	0.00	0.01											
85	0.00	0.00	0.00	0.00	0.00											
90	0.00	0.00	0.00	0.00	0.00											

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-06-14

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	961.7	958.2	957.2	955.7	953.6	954.3	951.5	953.5	950.7	953.8
3.0	937.2	926.8	912.8	904.7	889.9	884.4	876.4	877.9	875.4	882.1
6.0	823.9	814.8	794.6	785.1	769.2	763.7	754.8	758.8	756.3	766.8
9.0	655.4	649.6	633.4	628.6	611.6	610.8	598.1	604.9	601.3	611.4
12.0	473.0	470.9	457.5	455.1	441.2	440.6	432.5	437.1	432.6	441.1
15.0	327.6	325.0	314.9	311.5	301.4	299.3	289.9	290.9	282.7	288.2
18.0	221.0	218.6	206.1	199.9	185.4	179.3	164.9	159.8	149.7	153.5
21.0	130.9	129.7	119.5	114.9	106.7	101.9	94.53	91.46	86.45	85.16
24.0	65.17	63.63	63.08	60.54	59.18	60.06	58.09	57.70	56.26	56.46
27.0	39.06	39.35	38.10	38.22	37.79	38.65	38.42	38.54	38.00	39.13
30.0	24.64	25.38	24.59	24.38	24.35	25.41	25.45	26.09	25.90	26.68
33.0	12.19	13.13	12.16	11.98	11.14	11.56	11.08	11.87	11.91	12.22
36.0	2.970	3.099	2.898	2.946	2.766	2.807	2.704	2.837	2.894	3.027
39.0	1.659	1.680	1.576	1.468	1.435	1.395	1.263	1.288	1.342	1.402
42.0	0.2416	0.2162	0.2300	0.1877	0.1897	0.1767	0.2066	0.2008	0.2373	0.2270
45.0	0.1314	0.1114	0.1270	0.0895	0.0963	0.0764	0.1052	0.0983	0.1358	0.1223
48.0	0.0920	0.0677	0.0854	0.0589	0.0657	0.0437	0.0722	0.0633	0.0942	0.0786
51.0	0.0678	0.0415	0.0613	0.0371	0.0438	0.0350	0.0547	0.0371	0.0700	0.0481
54.0	0.0525	0.0306	0.0482	0.0262	0.0350	0.0218	0.0416	0.0262	0.0482	0.0350
57.0	0.0394	0.0197	0.0329	0.0153	0.0263	0.0066	0.0285	0.0153	0.0350	0.0262
60.0	0.0307	0.0152	0.0284	0.0087	0.0241	0.0022	0.0219	0.0087	0.0263	0.0065
63.0	0.0241	0.0022	0.0219	0.0022	0.0175	0.0022	0.0197	0.0022	0.0197	0.0022
66.0	0.0197	0.0022	0.0197	0.0022	0.0175	0.0022	0.0175	0.0022	0.0153	0.0022
69.0	0.0197	0.0022	0.0153	0.0022	0.0131	0.0022	0.0131	0.0022	0.0131	0.0022
72.0	0.0197	0.0022	0.0153	0.0022	0.0131	0.0022	0.0131	0.0022	0.0109	0.0022
75.0	0.0131	0.0022	0.0131	0.0022	0.0131	0.0022	0.0088	0.0022	0.0087	0.0022
78.0	0.0109	0.0022	0.0088	0.0022	0.0087	0.0022	0.0087	0.0022	0.0087	0.0022
81.0	0.0066	0.0022	0.0087	0.0022	0.0066	0.0022	0.0066	0.0022	0.0066	0.0022
84.0	0.0066	0.0022	0.0044	0.0022	0.0066	0.0022	0.0022	0.0022	0.0044	0.0022
87.0	0.0044	0.0022	0.0044	0.0022	0.0044	0.0022	0.0022	0.0022	0.0044	0.0022
90.0	0.0044	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	951.0	954.2	961.7	958.2	957.2	955.7	954.3	953.6	951.5	953.5
3.0	883.9	891.3	907.5	908.7	914.7	915.6	921.6	926.0	936.0	939.3
6.0	770.3	782.7	804.7	803.5	813.2	813.9	824.3	826.4	837.9	841.5
9.0	612.1	626.1	647.4	649.7	661.2	660.5	674.6	675.3	686.8	682.5
12.0	438.2	449.2	469.6	469.1	482.0	483.9	497.1	496.2	504.0	498.1
15.0	282.8	289.5	305.5	305.8	320.4	322.8	337.2	336.9	345.3	340.7
18.0	141.3	148.6	153.6	156.5	173.6	182.9	202.5	209.7	222.5	224.6
21.0	82.38	81.85	85.59	87.01	95.27	102.9	114.4	119.3	129.9	133.5
24.0	56.20	55.94	57.13	57.27	59.59	62.94	64.63	67.75	68.16	68.51
27.0	38.92	40.18	41.84	41.76	42.62	43.49	44.65	43.53	43.89	42.83
30.0	26.47	27.10	28.49	28.74	29.80	30.25	30.41	29.08	29.14	28.40
33.0	11.66	12.59	13.69	14.22	15.54	15.88	17.13	16.27	16.99	16.51
36.0	2.942	2.955	3.070	2.965	3.104	3.147	3.215	2.988	3.084	3.146
39.0	1.372	1.373	1.466	1.382	1.501	1.537	1.576	1.366	1.424	1.563
42.0	0.2484	0.2248	0.2269	0.2297	0.2051	0.2224	0.2029	0.2193	0.2417	0.2475
45.0	0.1445	0.1267	0.1179	0.1291	0.0982	0.1182	0.0939	0.1138	0.0873	0.1182
48.0	0.1029	0.0808	0.0764	0.0919	0.0634	0.0832	0.0589	0.0810	0.0567	0.0810
51.0	0.0744	0.0502	0.0480	0.0678	0.0415	0.0613	0.0371	0.0569	0.0349	0.0591
54.0	0.0526	0.0371	0.0328	0.0503	0.0306	0.0460	0.0284	0.0437	0.0240	0.0416
57.0	0.0416	0.0284	0.0218	0.0372	0.0174	0.0328	0.0153	0.0328	0.0109	0.0328
60.0	0.0306	0.0131	0.0066	0.0263	0.0043	0.0284	0.0022	0.0262	0	0.0241
63.0	0.0198	0.0044	0	0.0219	0	0.0197	0	0.0175	0	0.0175
66.0	0.0153	0.0022	0	0.0175	0	0.0132	0	0.0153	0	0.0131
69.0	0.0131	0.0022	0	0.0109	0	0.0109	0	0.0131	0	0.0131
72.0	0.0109	0.0022	0	0.0087	0	0.0088	0	0.0109	0	0.0087
75.0	0.0087	0.0022	0	0.0087	0	0.0087	0	0.0087	0	0.0066
78.0	0.0066	0.0022	0	0.0044	0	0.0044	0	0.0044	0	0.0066
81.0	0.0066	0.0022	0	0.0044	0	0.0022	0	0.0044	0	0.0044
84.0	0.0044	0.0022	0	0.0044	0	0.0022	0	0.0044	0	0.0044
87.0	0.0044	0.0022	0	0.0022	0	0.0022	0	0.0044	0	0.0022
90.0	0.0022	0.0022	0	0	0	0	0	0.0022	0	0
G/C	300.0	315.0	330.0	345.0						
0.0	950.7	953.8	951.0	954.2						
3.0	946.6	946.9	950.8	945.0						
6.0	852.6	849.4	852.6	838.4						
9.0	688.5	679.1	680.7	668.8						
12.0	502.0	494.0	495.7	483.5						
15.0	347.1	342.4	346.3	334.4						
18.0	234.6	233.6	236.4	228.2						
21.0	144.7	145.4	147.3	137.8						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-06-14

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	72.28	70.22	69.02	68.18
27.0	43.72	41.95	40.43	38.65
30.0	28.77	27.63	26.44	24.87
33.0	17.25	15.80	15.33	13.71
36.0	3.346	3.212	3.332	3.055
39.0	1.807	1.796	1.990	1.670
42.0	0.3133	0.2597	0.2659	0.2457
45.0	0.1004	0.1357	0.1157	0.1313
48.0	0.0634	0.0941	0.0742	0.0941
51.0	0.0415	0.0679	0.0480	0.0700
54.0	0.0306	0.0503	0.0350	0.0503
57.0	0.0153	0.0372	0.0240	0.0394
60.0	0.0022	0.0306	0.0130	0.0285
63.0	0.0022	0.0197	0.0022	0.0219
66.0	0	0.0153	0.0022	0.0197
69.0	0	0.0131	0.0022	0.0131
72.0	0	0.0087	0.0022	0.0109
75.0	0	0.0066	0.0022	0.0109
78.0	0	0.0066	0.0022	0.0066
81.0	0	0.0066	0	0.0066
84.0	0	0.0044	0	0.0044
87.0	0	0.0022	0	0.0022
90.0	0	0	0	0.0022

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-06-14

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: