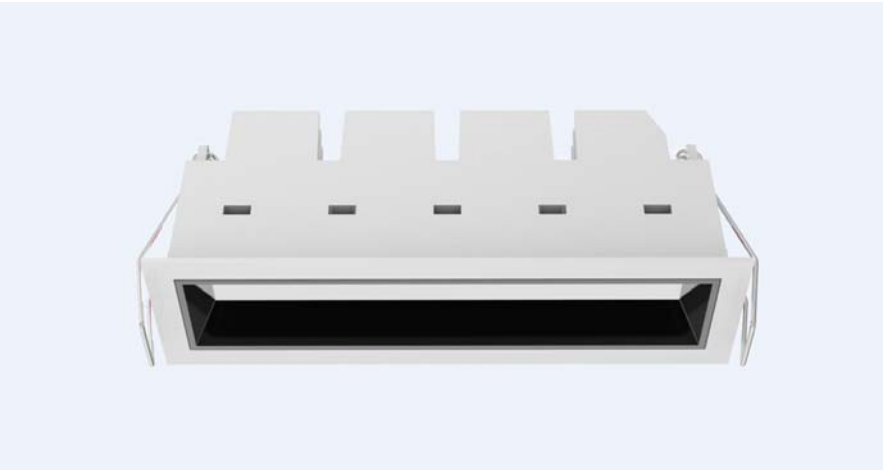
LED Downlight FUSION Series FG5-11W-830



Light Output Ratio:	100.0%	
Luminaire Power:	14.04 W	
SHR Nominal:	1.00	Calculated using the TM5
SHR Maximum:	1.05	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-13

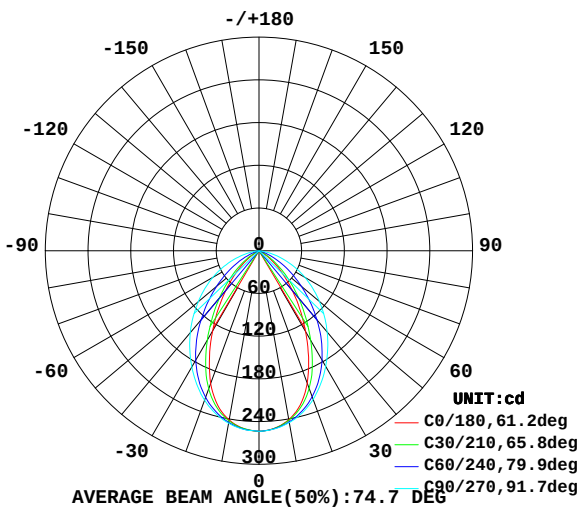
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

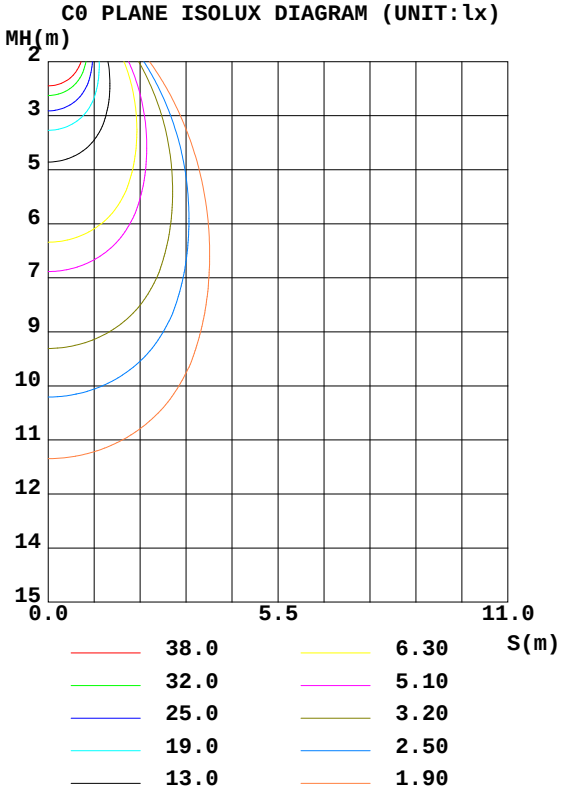
Test:U:220.7V I:0.0636A P:14.04W PF:0.9004 Lamp Flux:387.002x1 lm		
NAME: FG5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 27.57 lm/W			
MODEL	CREE-3000K	Imax(cd)	253.6	S/MH(C0/180)	0.92
NOMINAL POWER(W)	13.0	LOR(%)	100.0	S/MH(C90/270)	1.13
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	387.00	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	387.002	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.05

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:2017-06-13

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:

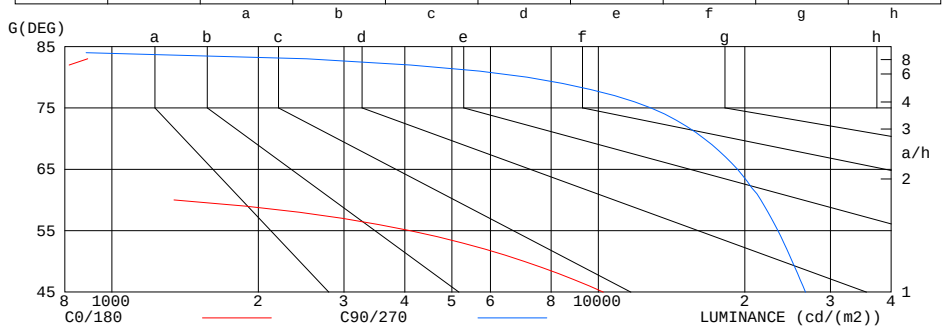
ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	240.9	243.2	245.2	243.1	241.3	243.6	245.9	243.8	0- 10	23.71	23.71	6.13,6.13
20	198.4	213.3	222.2	212.8	198.5	213.1	223.4	214.1	10- 20	64.59	88.30	22.8,22.8
30	131.0	162.1	187.5	160.9	130.8	160.9	188.7	163.3	20- 30	85.94	174.2	45,45
40	72.98	103.9	149.1	102.9	72.71	102.9	150.1	105.4	30- 40	83.61	257.8	66.6,66.6
50	31.16	56.15	110.8	55.48	31.09	55.24	111.4	57.22	40- 50	65.55	323.4	83.6,83.6
60	4.619	20.92	74.27	20.55	4.055	20.46	74.92	21.83	50- 60	40.91	364.3	94.1,94.1
70	0.9991	0.1814	38.86	0.1617	0.4855	0.1851	39.74	0.2227	60- 70	17.65	382.0	98.7,98.7
80	0.8311	0.0959	8.537	0.0655	0.5728	0.0854	9.458	0.1181	70- 80	4.751	386.7	99.9,99.9
90	0.1509	0.0241	0.0634	0.0219	0.1377	0.0153	0.0437	0.0197	80- 90	0.2956	387.0	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 LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	91	239
80	695	7141
75	556	12824
70	424	16501
65	293	19314
60	1342	21573
55	4103	23400
50	7041	25033
45	10240	26666

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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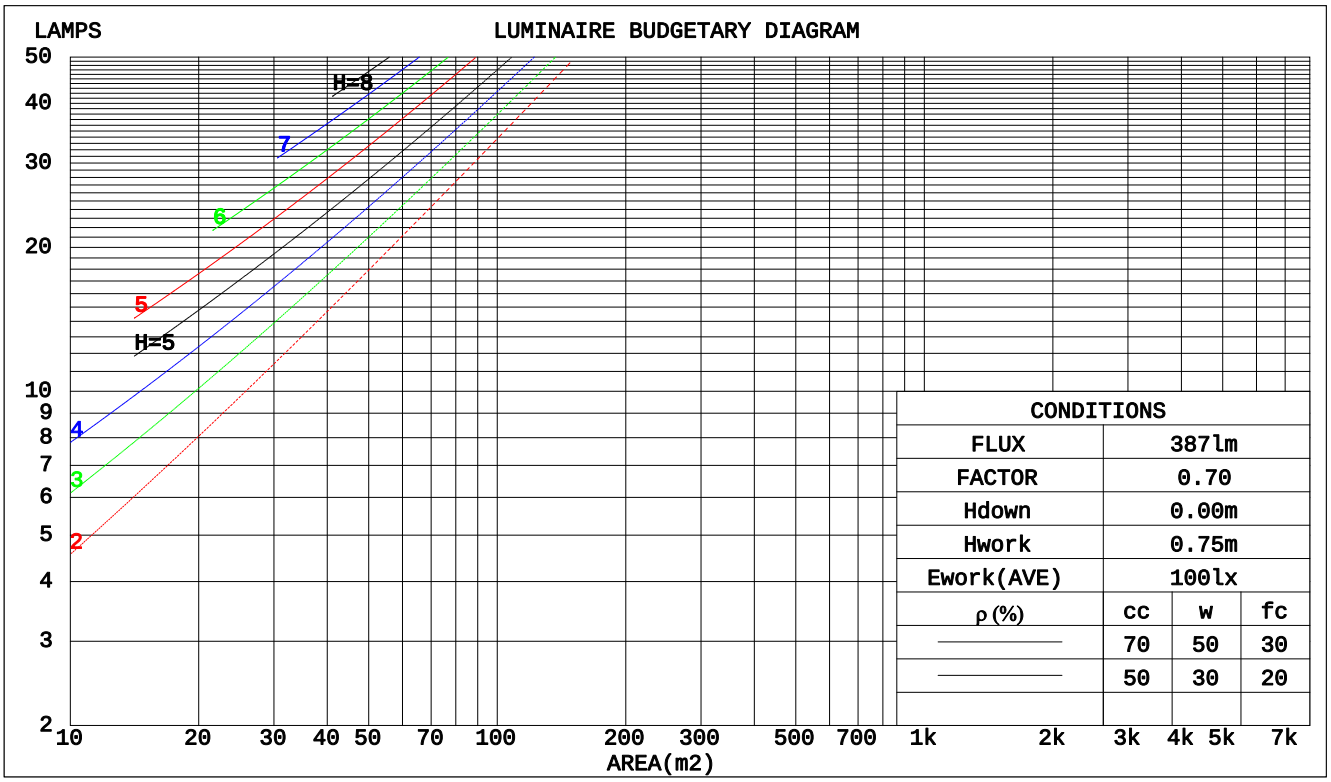
Operators:Meng Yongjian
Test Date:2017-06-13

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0636A P:14.04W PF:0.9004 Lamp Flux:387.002x1 lm		
NAME: FG5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	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						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	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.00	.98	.98	.96	.95	.95	.93	.92	.90
2.0	.98	.93	.88	.96	.91	.87	.93	.89	.85	.90	.86	.83	.87	.84	.82	.80
3.0	.89	.82	.77	.87	.81	.76	.84	.79	.75	.82	.77	.74	.79	.76	.73	.71
4.0	.81	.73	.68	.79	.73	.68	.77	.71	.67	.75	.70	.66	.73	.69	.65	.63
5.0	.74	.66	.61	.73	.66	.60	.71	.64	.60	.69	.63	.59	.67	.62	.59	.57
6.0	.67	.60	.55	.67	.59	.54	.65	.59	.54	.63	.58	.53	.62	.57	.53	.51
7.0	.62	.55	.49	.61	.54	.49	.60	.54	.49	.59	.53	.49	.57	.52	.48	.47
8.0	.57	.50	.45	.57	.50	.45	.56	.49	.45	.54	.49	.44	.53	.48	.44	.43
9.0	.53	.46	.41	.53	.46	.41	.52	.45	.41	.51	.45	.41	.50	.45	.41	.39
10.0	.50	.43	.38	.49	.43	.38	.48	.42	.38	.47	.42	.38	.47	.41	.38	.36



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-13

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:0.0636A P:14.04W PF:0.9004 Lamp Flux:387.002x1 lm		
NAME: FG5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	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 Coeffcients(WEC)									
0.0																
1.0	.226	.128	.041	.219	.125	.040	.206	.118	.038	.194	.112	.036	.184	.106	.034	
2.0	.221	.121	.037	.215	.118	.036	.204	.113	.035	.194	.109	.034	.184	.104	.033	
3.0	.211	.112	.034	.206	.110	.033	.196	.106	.032	.187	.102	.031	.179	.099	.031	
4.0	.200	.104	.031	.195	.102	.030	.187	.099	.030	.179	.096	.029	.172	.093	.028	
5.0	.189	.096	.028	.185	.095	.028	.177	.092	.027	.170	.090	.027	.164	.088	.026	
6.0	.178	.089	.026	.175	.088	.025	.168	.086	.025	.162	.084	.025	.156	.082	.024	
7.0	.169	.083	.024	.165	.082	.023	.160	.081	.023	.154	.079	.023	.149	.077	.023	
8.0	.160	.078	.022	.157	.077	.022	.152	.076	.022	.147	.074	.021	.142	.073	.021	
9.0	.151	.073	.020	.149	.073	.020	.144	.071	.020	.140	.070	.020	.135	.069	.020	
10.0	.144	.069	.019	.142	.068	.019	.137	.067	.019	.133	.066	.019	.129	.065	.019	

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	.175	.157	.141	.149	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.163	.132	.107	.139	.114	.092	.096	.079	.064	.055	.046	.038	.018	.015	.012	
3.0	.153	.114	.083	.131	.098	.072	.090	.068	.050	.052	.040	.030	.017	.013	.010	
4.0	.145	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.137	.089	.053	.118	.077	.046	.081	.054	.033	.047	.032	.019	.015	.010	.006	
6.0	.130	.080	.044	.112	.069	.039	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.124	.073	.037	.107	.063	.033	.074	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.118	.067	.032	.102	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.113	.062	.028	.097	.054	.024	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.108	.058	.025	.093	.050	.021	.065	.035	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-13

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:0.0636A P:14.04W PF:0.9004 Lamp Flux:387.002x1 lm		
NAME: FG5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	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	16.9	18.1	17.1	18.3	18.5	23.4	24.6	23.6	24.8	25.0
3H	16.7	17.8	17.0	18.1	18.3	24.4	25.5	24.7	25.7	26.0
4H	16.6	17.7	16.9	17.9	18.2	24.7	25.7	25.0	26.0	26.2
6H	16.5	17.5	16.8	17.8	18.0	24.7	25.7	25.0	26.0	26.3
8H	16.5	17.5	16.8	17.7	18.0	24.7	25.7	25.0	25.9	26.2
12H	16.4	17.4	16.8	17.6	17.9	24.7	25.6	25.0	25.9	26.1
4H 2H	17.3	18.4	17.6	18.6	18.9	23.2	24.3	23.5	24.5	24.7
3H	17.1	18.1	17.5	18.3	18.6	24.2	25.1	24.5	25.4	25.7
4H	17.0	17.9	17.4	18.2	18.5	24.5	25.3	24.9	25.6	26.0
6H	17.0	17.7	17.3	18.0	18.4	24.6	25.3	25.0	25.7	26.0
8H	16.9	17.6	17.3	18.0	18.3	24.6	25.2	25.0	25.6	26.0
12H	16.9	17.5	17.3	17.9	18.3	24.5	25.1	24.9	25.5	25.9
8H 4H	17.0	17.7	17.4	18.0	18.4	24.4	25.0	24.8	25.4	25.8
6H	16.9	17.5	17.3	17.9	18.3	24.4	25.0	24.9	25.4	25.8
8H	16.9	17.4	17.3	17.8	18.2	24.4	24.9	24.9	25.3	25.8
12H	16.8	17.2	17.3	17.7	18.2	24.4	24.8	24.8	25.2	25.7
12H 4H	16.9	17.6	17.4	17.9	18.3	24.3	24.9	24.7	25.3	25.7
6H	16.9	17.4	17.3	17.8	18.2	24.4	24.9	24.9	25.3	25.8
8H	16.8	17.2	17.3	17.7	18.2	24.4	24.8	24.8	25.2	25.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 5.1					+ 0.3 / - 0.3				
1.5H	+ 1.4 / - 2.3					+ 0.8 / - 1.5				
2.0H	+ 3.2 / -10.1					+ 2.0 / - 3.8				

CIE Pub.117 Corrected 387.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -3.3)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-13

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:0.0636A P:14.04W PF:0.9004 Lamp Flux:387.002x1 lm		
NAME: FG5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	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) x RCR = 5									
k = 0.60	70	61	55	70	61	55	69	60	55	50
0.80	80	71	65	79	71	65	78	70	65	59
1.00	88	79	74	86	79	73	85	79	73	67
1.25	94	86	81	92	85	80	90	84	79	74
1.50	98	91	85	96	90	85	94	88	84	78
2.00	103	97	92	101	96	91	98	93	90	83
2.50	105	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	101	98	102	99	96	88
4.00	111	107	103	108	105	102	104	102	99	91
5.00	112	109	106	110	107	104	106	103	101	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
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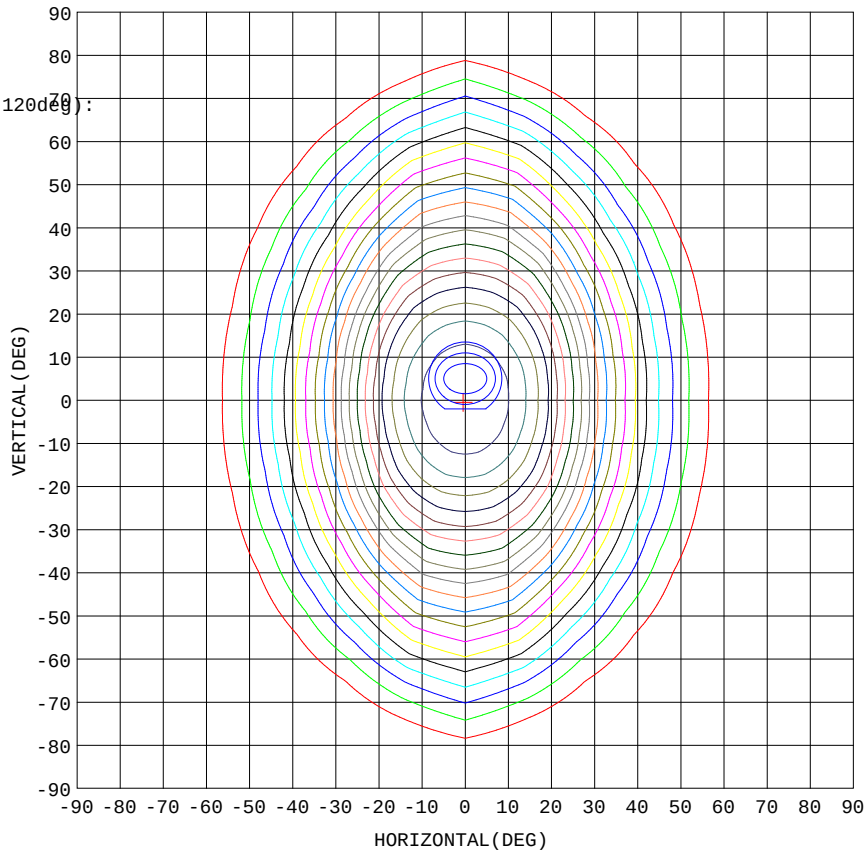
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.7V I:0.0636A P:14.04W PF:0.9004 Lamp Flux:387.002x1 lm		
NAME: FG5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Conical surface Flux(90deg):
293.5 lm
%lum = 75.8%
%lamp = 75.8%

Conical surface Flux(120deg):
364.3 lm
%lum = 94.1%
%lamp = 94.1%



5% 12.67
10% 25.35
15% 38.02
20% 50.69
25% 63.36
30% 76.04
35% 88.71
40% 101.4
45% 114.1
50% 126.7
55% 139.4
60% 152.1
65% 164.7
70% 177.4
75% 190.1
80% 202.8
85% 215.4
90% 228.1
95% 240.8

1. AVG=250.6,MIN=247.8
2. AVG=249.4,MIN=244.2
3. AVG=247.9,MIN=239.5

Imax:253.5(H-0.5,V-0.5)
(At:C=135.0,Gamma=0.0)
UNIT: cd

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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Test Date:2017-06-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
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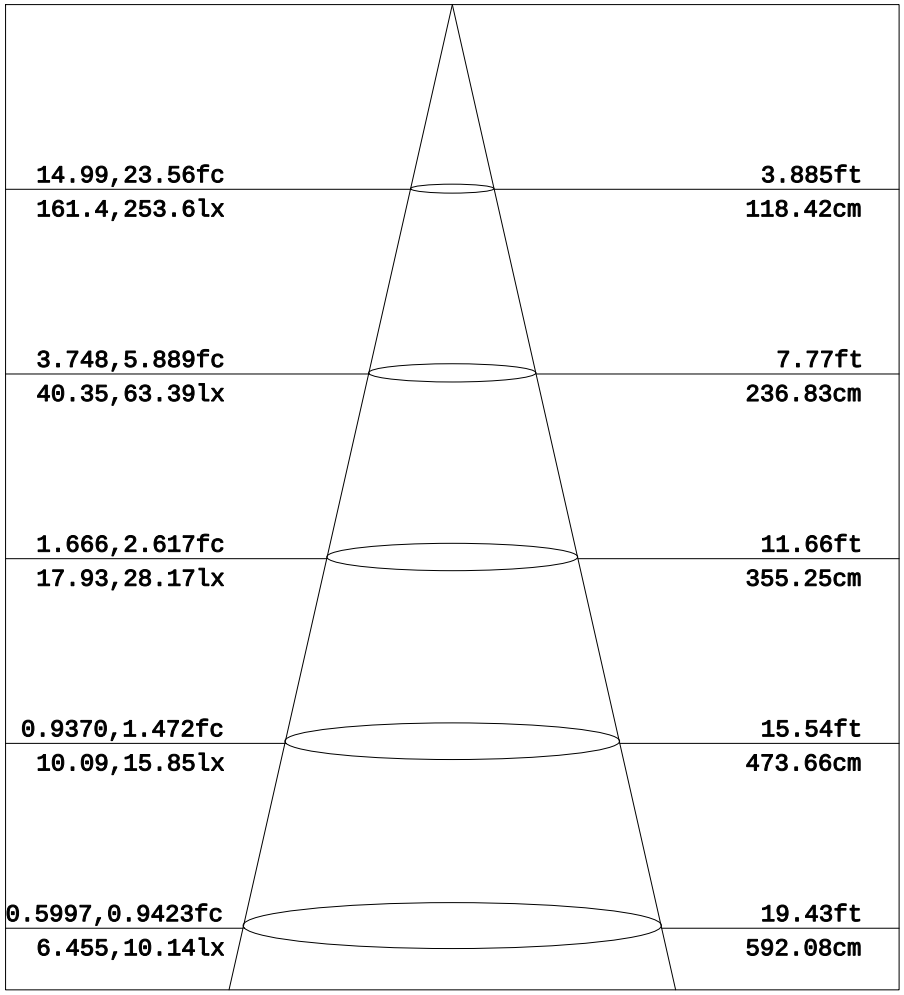
Remarks:

AAI Figure

Test:U:220.7V I:0.0636A P:14.04W PF:0.9004 Lamp Flux:387.002x1 lm		
NAME: FG5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Flux out:183.0 lm



Height	Eavg,Emax	Angle:61.26deg	Diameter
3.281ft	14.99,23.56fc		3.885ft
1m	161.4,253.6lx		118.42cm
6.562ft	3.748,5.889fc		7.77ft
2m	40.35,63.39lx		236.83cm
9.843ft	1.666,2.617fc		11.66ft
3m	17.93,28.17lx		355.25cm
13.12ft	0.9370,1.472fc		15.54ft
4m	10.09,15.85lx		473.66cm
16.4ft	0.5997,0.9423fc		19.43ft
5m	6.455,10.14lx		592.08cm

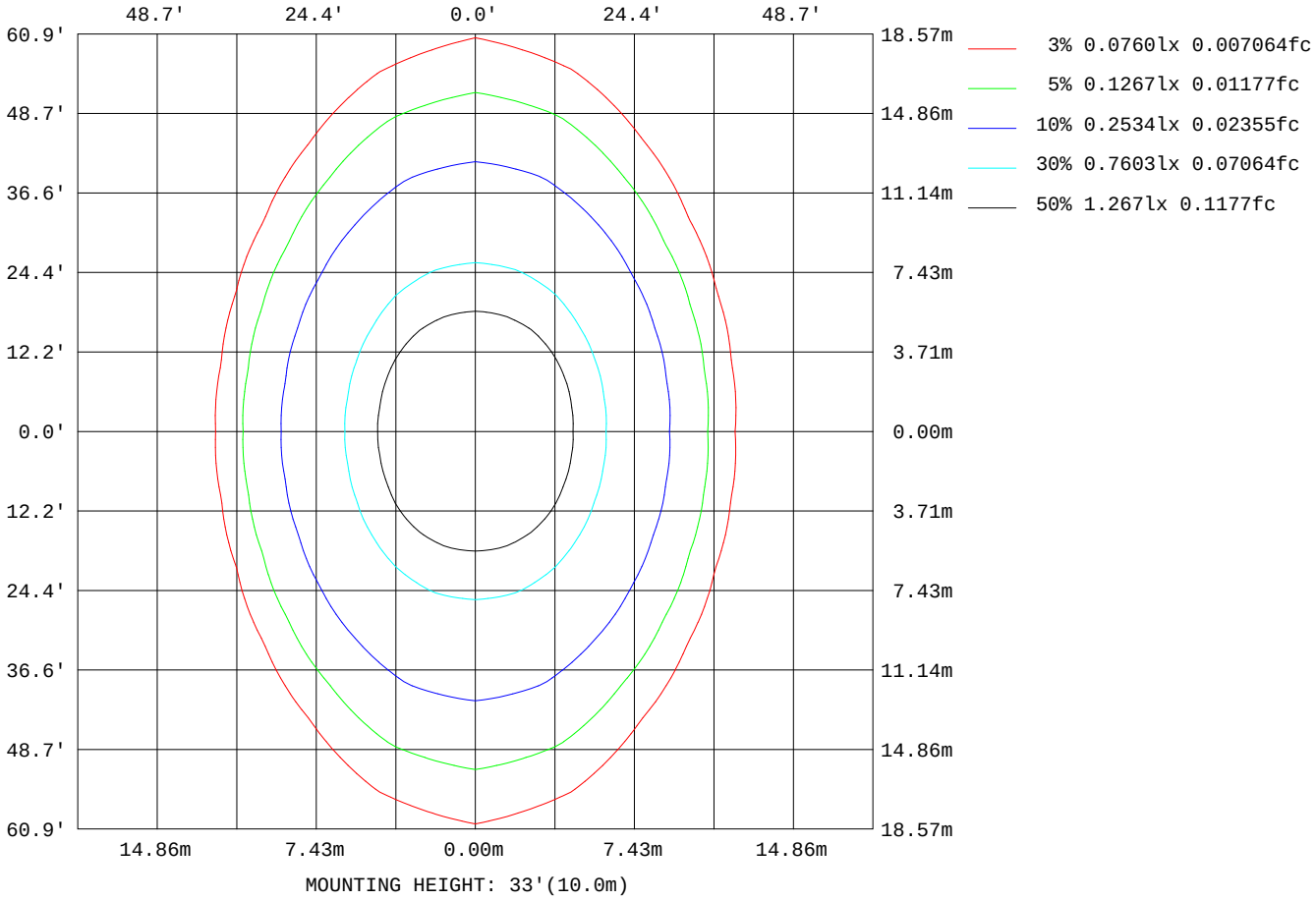
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-13

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

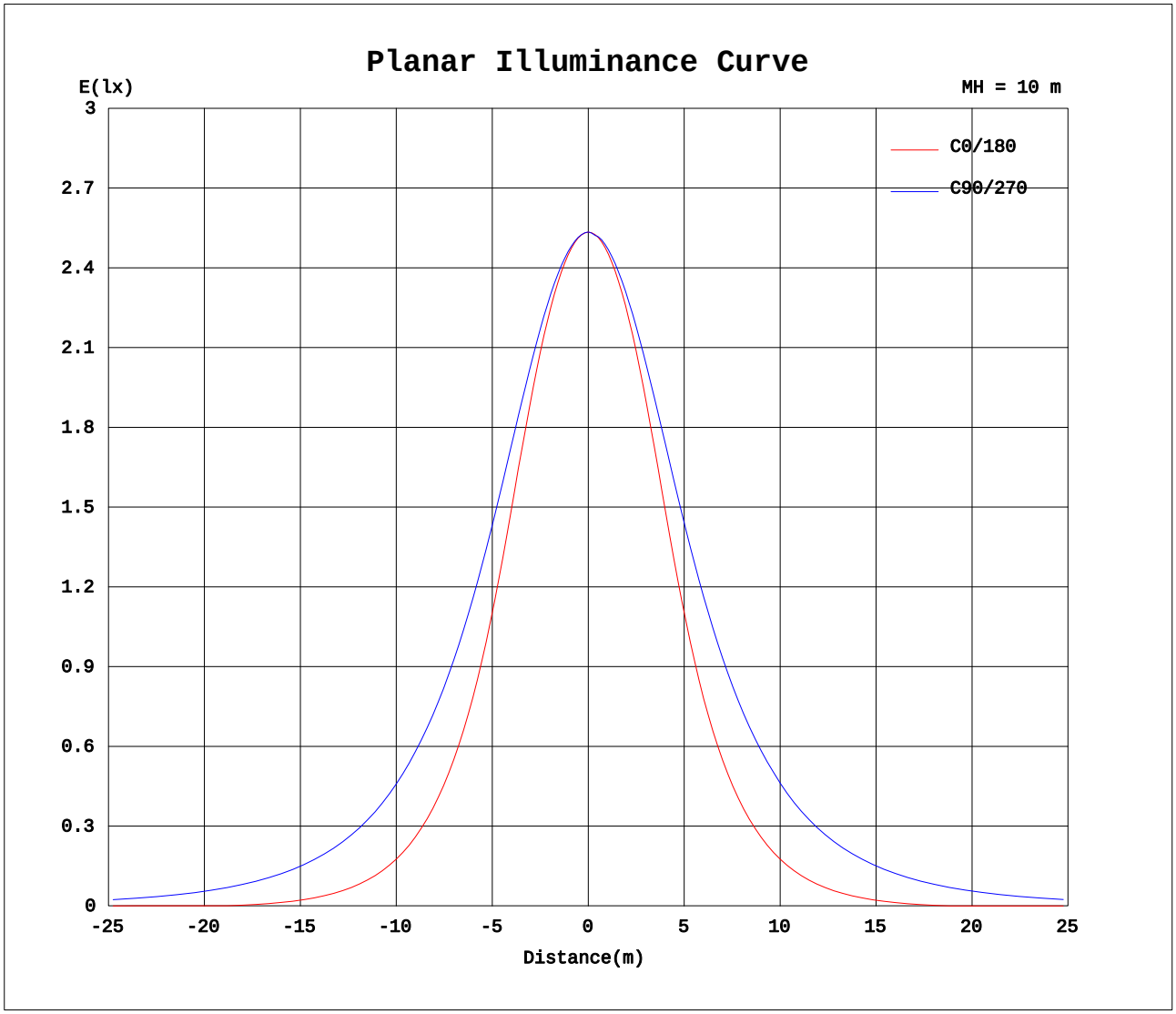
Test:U:220.7V I:0.0636A P:14.04W PF:0.9004 Lamp Flux:387.002x1 lm		
NAME: FG5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-13

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:2017-06-13

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:0.0636A P:14.04W PF:0.9004 Lamp Flux:387.002x1 lm		
NAME: FG5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	253	253	253	254	254	254	254	254	254	254	254	254	253	253	253	254	254	254	254
5	250	250	250	251	251	251	251	251	251	251	250	250	251	250	251	251	251	252	252
10	241	241	242	243	244	245	245	245	244	243	242	241	241	241	243	244	245	245	246
15	224	225	227	231	233	235	235	235	233	231	227	225	225	225	228	231	234	236	237
20	198	201	206	213	218	222	222	222	218	213	205	200	198	200	206	213	219	222	223
25	165	169	177	190	199	205	206	205	199	189	176	167	165	167	177	189	200	205	207
30	131	136	146	162	177	186	188	186	177	161	144	133	131	134	146	161	178	186	189
35	100	104	115	132	153	166	168	166	152	131	113	103	99.8	103	114	131	153	166	170
40	73.0	76.7	86.7	104	127	145	149	145	126	103	85.4	75.3	72.7	75.7	86.4	103	126	145	150
45	49.9	53.2	61.9	78.6	101	124	130	124	101	77.8	60.8	52.1	49.8	52.2	61.9	77.7	101	124	131
50	31.2	33.9	41.2	56.2	77.8	103	111	103	77.4	55.5	40.3	32.9	31.1	33.1	41.1	55.2	77.5	103	111
55	16.2	18.4	24.3	36.9	56.5	82.4	92.4	82.3	56.3	36.3	23.6	17.5	16.0	17.7	24.3	36.1	56.6	82.0	93.0
60	4.62	6.20	10.9	20.9	37.6	62.1	74.3	62.1	37.5	20.5	10.2	5.26	4.05	5.41	10.9	20.5	37.8	61.6	74.9
65	0.85	0.49	0.57	8.43	21.4	42.4	56.2	42.4	21.3	8.07	0.29	0.30	0.44	0.26	0.41	8.07	21.7	42.0	57.1
70	1.00	0.58	0.33	0.18	8.61	25.1	38.9	25.2	8.51	0.16	0.24	0.33	0.49	0.26	0.19	0.19	8.94	24.9	39.7
75	0.99	0.59	0.23	0.14	0.19	10.9	22.9	11.1	0.17	0.12	0.15	0.37	0.56	0.26	0.16	0.14	0.23	11.0	23.8
80	0.83	0.50	0.20	0.10	0.09	1.77	8.54	1.85	0.09	0.07	0.10	0.15	0.57	0.26	0.09	0.09	0.06	1.88	9.46
85	0.05	0.03	0.06	0.03	0.05	0.05	0.14	0.06	0.05	0.03	0.04	0.02	0.02	0.04	0.02	0.04	0.03	0.08	0.17
90	0.15	0.16	0.03	0.02	0.04	0.04	0.06	0.05	0.03	0.02	0.03	0.14	0.14	0.12	0.03	0.02	0.01	0.05	0.04

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-13

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:0.0636A P:14.04W PF:0.9004 Lamp Flux:387.002x1 lm		
NAME: FG5-11W-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	285	300	315	330	345
0	254	254	254	254	254
5	252	252	251	251	250
10	246	245	244	243	242
15	236	234	231	229	226
20	222	220	214	208	201
25	205	201	191	180	169
30	186	179	163	148	136
35	166	155	134	116	105
40	146	128	105	88.5	77.6
45	125	104	80.0	63.7	53.8
50	104	79.8	57.2	42.7	34.4
55	83.6	58.7	37.8	25.5	18.7
60	63.2	39.7	21.8	11.9	6.45
65	43.6	23.2	9.17	1.37	0.42
70	26.2	9.99	0.22	0.26	0.46
75	11.9	0.90	0.17	0.20	0.47
80	2.37	0.06	0.12	0.16	0.39
85	0.07	0.03	0.04	0.03	0.05
90	0.05	0.03	0.02	0.02	0.08

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-13

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	253.4	253.5	253.5	253.5	253.5	253.6	253.5	253.5	253.5	253.6
3.0	252.3	252.3	252.3	252.4	252.4	252.6	252.5	252.5	252.4	252.5
6.0	248.9	249.1	249.1	249.6	249.8	250.2	250.2	250.2	249.8	249.6
9.0	243.3	243.6	244.0	245.1	245.8	246.6	246.6	246.6	245.7	245.0
12.0	235.1	235.8	236.9	238.9	240.3	241.6	241.7	241.6	240.2	238.8
15.0	224.1	225.3	227.5	230.9	233.2	235.2	235.5	235.2	233.1	230.7
18.0	209.5	211.6	215.5	221.0	224.7	227.5	227.9	227.5	224.6	220.7
21.0	191.8	195.1	200.6	209.2	214.7	218.5	219.1	218.5	214.5	208.6
24.0	171.6	175.3	183.6	195.1	203.5	208.2	209.1	208.2	203.2	194.4
27.0	151.2	155.3	164.6	179.8	190.8	197.3	198.6	197.2	190.4	178.7
30.0	131.0	135.7	145.5	162.1	177.1	185.7	187.5	185.7	176.7	160.9
33.0	112.2	116.0	126.6	144.3	162.5	173.7	176.2	173.7	162.0	143.2
36.0	94.47	98.30	108.9	126.3	147.7	161.5	164.5	161.4	147.0	125.1
39.0	78.20	81.90	92.15	109.3	132.0	149.1	153.0	149.1	131.3	108.2
42.0	63.16	66.81	76.53	93.44	116.6	136.7	141.4	136.6	116.0	92.50
45.0	49.85	53.24	61.91	78.63	101.4	123.6	129.8	123.5	100.9	77.77
48.0	38.16	41.11	49.00	64.75	86.80	111.0	118.3	110.9	86.39	64.01
51.0	27.89	30.47	37.52	52.03	73.40	98.54	107.1	98.52	73.07	51.40
54.0	18.92	21.20	27.38	40.46	60.56	86.49	96.07	86.43	60.30	39.93
57.0	11.18	13.15	18.53	30.11	48.67	74.19	85.10	74.15	48.48	29.65
60.0	4.619	6.199	10.93	20.92	37.61	62.11	74.27	62.14	37.49	20.55
63.0	0.7964	0.4745	4.435	13.00	27.48	50.21	63.31	50.25	27.39	12.68
66.0	0.8808	0.5030	0.3413	6.351	18.51	38.78	52.65	38.85	18.44	5.940
69.0	0.9880	0.5621	0.3345	0.6952	10.86	28.40	42.26	28.49	10.77	0.3070
72.0	1.004	0.5882	0.2847	0.1661	4.653	18.94	32.30	19.10	4.522	0.1399
75.0	0.9906	0.5881	0.2253	0.1442	0.1872	10.88	22.85	11.06	0.1742	0.1201
78.0	0.8880	0.5662	0.2252	0.1159	0.1161	4.644	13.80	4.749	0.1204	0.0830
81.0	0.8049	0.4210	0.1773	0.0656	0.0745	0.7812	6.141	0.8249	0.0810	0.0546
84.0	0.2296	0.1887	0.0902	0.0306	0.0569	0.0633	0.6370	0.0742	0.0569	0.0284
87.0	0.0481	0.0306	0.0394	0.0241	0.0459	0.0415	0.0942	0.0547	0.0416	0.0219
90.0	0.1509	0.1552	0.0284	0.0241	0.0372	0.0394	0.0634	0.0547	0.0328	0.0219

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	253.6	253.5	253.4	253.5	253.5	253.5	253.5	253.6	253.5	253.5
3.0	252.4	252.4	252.5	252.3	252.1	252.2	252.5	252.7	252.7	252.7
6.0	249.1	249.1	249.2	248.7	249.5	250.0	250.5	250.7	250.9	250.7
9.0	243.9	243.5	243.7	243.4	244.7	245.5	246.6	247.1	247.4	247.1
12.0	236.6	235.5	235.6	235.8	237.7	239.2	241.0	242.0	242.6	242.1
15.0	227.0	224.7	224.5	225.1	228.2	231.0	234.0	235.6	236.5	235.7
18.0	214.8	210.6	209.9	211.1	216.2	220.9	225.7	227.9	229.1	228.1
21.0	199.6	193.6	192.0	194.0	201.1	208.8	215.7	218.8	220.4	219.1
24.0	182.2	173.7	171.7	174.1	183.8	194.6	204.4	208.5	210.4	208.9
27.0	163.1	153.6	151.2	153.9	164.7	178.8	191.6	197.5	199.8	197.9
30.0	144.0	133.5	130.8	133.8	145.6	160.9	177.7	185.8	188.7	186.3
33.0	125.1	114.3	111.6	115.0	126.0	143.0	162.8	173.7	177.2	174.4
36.0	107.5	96.77	94.01	97.24	108.3	125.3	147.9	161.4	165.6	162.1
39.0	90.79	80.48	77.84	80.90	91.73	108.3	131.8	148.9	154.1	149.8
42.0	75.29	65.57	63.07	65.68	76.16	92.55	116.2	136.3	142.4	137.3
45.0	60.84	52.08	49.80	52.24	61.91	77.70	101.1	123.6	130.7	124.7
48.0	48.04	40.07	38.07	40.29	48.95	63.75	86.54	111.0	118.9	112.2
51.0	36.70	29.53	27.79	29.74	37.47	51.16	73.18	98.36	107.6	99.71
54.0	26.64	20.35	18.78	20.52	27.39	39.69	60.62	86.14	96.63	87.55
57.0	17.86	12.28	10.87	12.45	18.56	29.50	48.83	73.79	85.74	75.48
60.0	10.23	5.259	4.055	5.415	10.89	20.46	37.83	61.56	74.92	63.21
63.0	3.687	0.2974	0.4308	0.2837	4.291	12.67	27.75	49.74	64.18	51.46
66.0	0.2539	0.3040	0.4505	0.2624	0.2055	5.989	18.84	38.41	53.55	39.88
69.0	0.2427	0.3258	0.4746	0.2624	0.1902	0.3921	11.20	28.12	43.17	29.45
72.0	0.2058	0.3477	0.5140	0.2624	0.1705	0.1640	4.951	18.85	33.19	20.02
75.0	0.1488	0.3695	0.5599	0.2645	0.1618	0.1422	0.2327	10.95	23.80	11.88
78.0	0.1356	0.3678	0.5729	0.2690	0.1530	0.1137	0.0895	4.751	14.81	5.415
81.0	0.0789	0.1509	0.5659	0.2515	0.0611	0.0723	0.0589	0.8931	7.071	1.244
84.0	0.0657	0.0630	0.0888	0.0889	0.0391	0.0394	0.0306	0.0875	1.218	0.0810
87.0	0.0306	0.0241	0.0175	0.0241	0.0153	0.0241	0.0153	0.0591	0.0698	0.0634
90.0	0.0284	0.1356	0.1377	0.1203	0.0284	0.0153	0.0131	0.0459	0.0437	0.0525

G/C	300.0	315.0	330.0	345.0
0.0	253.5	253.6	253.6	253.5
3.0	252.6	252.3	252.2	252.3
6.0	250.6	250.1	249.7	248.9
9.0	246.7	245.7	245.0	243.8
12.0	241.3	239.6	238.1	236.3
15.0	234.4	231.5	229.0	225.9
18.0	226.2	221.7	217.3	212.3
21.0	216.3	210.0	202.6	195.8

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-13

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	205.2	196.1	185.9	176.1
27.0	192.6	180.7	166.9	156.0
30.0	179.1	163.3	147.9	135.9
33.0	164.6	145.5	128.8	117.1
36.0	149.8	127.8	110.6	99.22
39.0	134.0	110.8	93.89	82.83
42.0	118.5	94.96	78.19	67.62
45.0	103.6	79.98	63.73	53.76
48.0	88.88	65.83	50.61	41.63
51.0	75.39	53.06	38.94	30.89
54.0	62.74	41.46	28.65	21.56
57.0	50.83	31.05	19.67	13.45
60.0	39.66	21.83	11.93	6.449
63.0	29.38	13.85	5.301	0.5261
66.0	20.25	7.048	0.2819	0.4176
69.0	12.37	1.335	0.2580	0.4503
72.0	5.873	0.1881	0.2381	0.4679
75.0	0.9016	0.1684	0.1989	0.4723
78.0	0.0895	0.1291	0.1771	0.4462
81.0	0.0501	0.0790	0.1333	0.3415
84.0	0.0350	0.0416	0.0544	0.1607
87.0	0.0350	0.0306	0.0153	0.0372
90.0	0.0350	0.0197	0.0153	0.0809

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-13

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: