

LED Downlight FUSION Series FF5-11W-830-24D Specular



Light Output Ratio:	100.0%	
Luminaire Power:	13.18 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

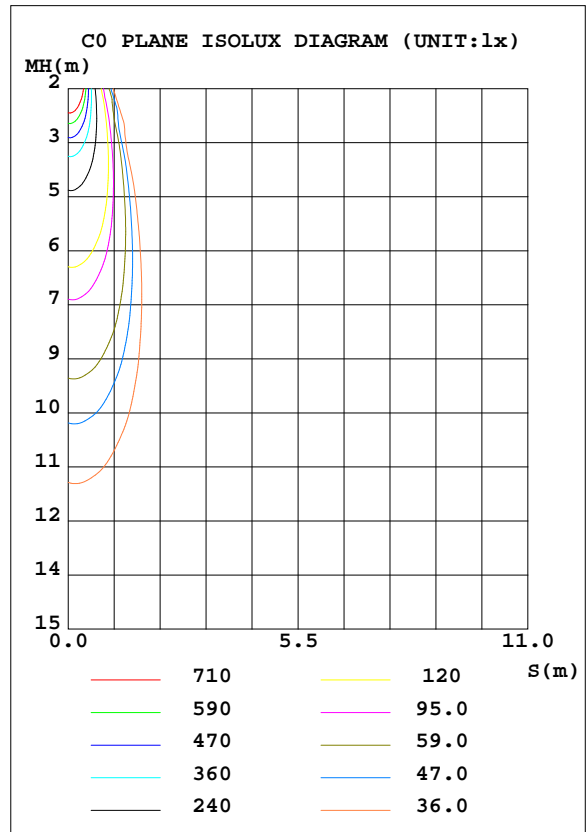
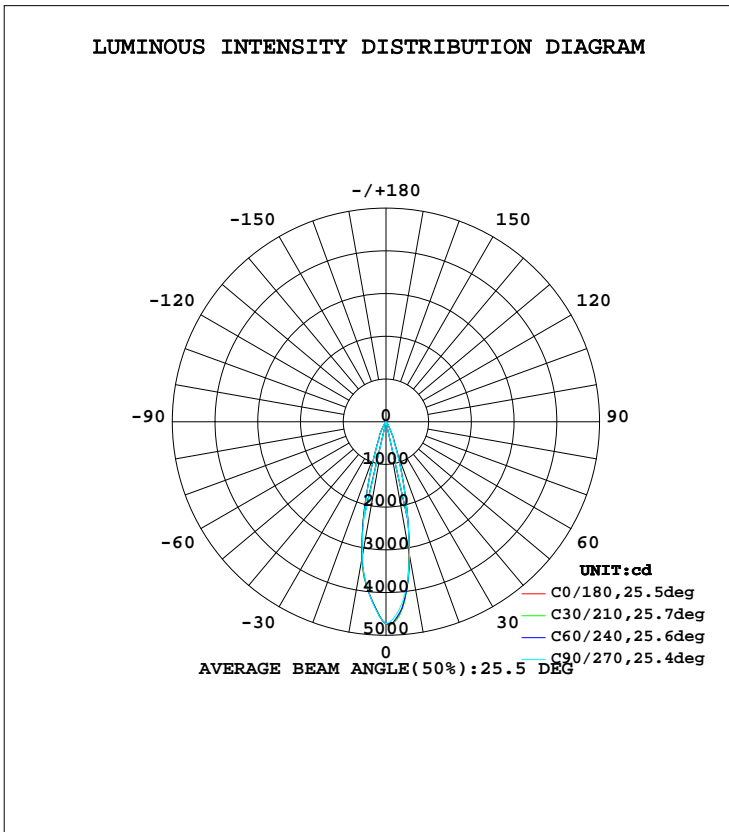
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2016-06-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.6V I:0.0660A P:13.18W PF:0.9045 Lamp Flux:1072.48x1 lm		
NAME: FF5-11W-830-24D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CREE-3000K	Imax(cd)	4774	S/MH(C0/180)	0.42
NOMINAL POWER(W)	13.0	LOR(%)	100.0	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1072.5	η UP, DN(C0-180)	0.0, 50.0
NOMINAL FLUX(lm)	1072.48	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.0
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



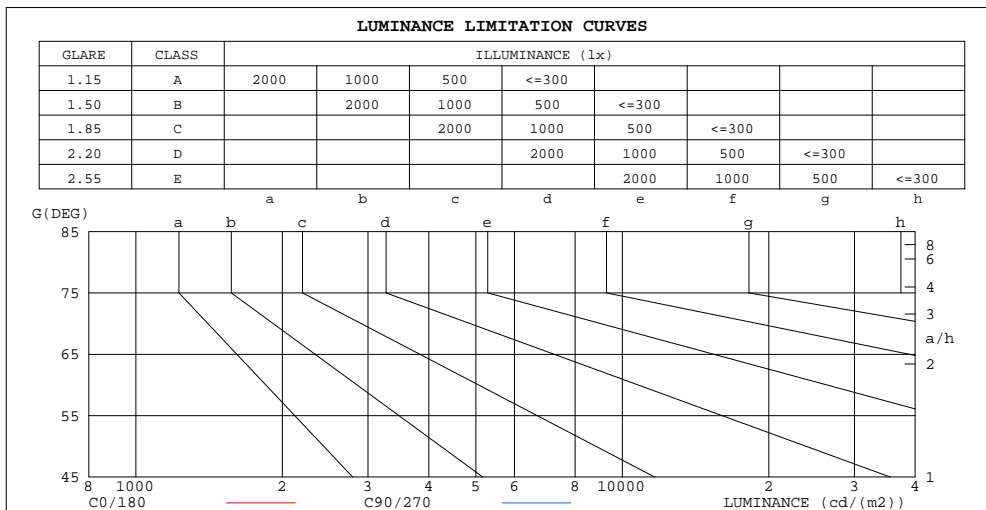
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum,lamp
10	3123	3190	3174	3232	3257	3216	3168	3187	0- 10	371.8	371.8	34.7,34.7
20	800.4	819.1	751.5	731.3	711.5	699.4	719.4	767.3	10- 20	478.4	850.2	79.3,79.3
30	155.2	158.5	166.3	175.8	183.1	179.3	185.2	168.1	20- 30	173.7	1024	95.5,95.5
40	17.65	18.79	17.44	18.40	18.39	19.03	20.02	18.98	30- 40	44.71	1069	99.6,99.6
50	0.7249	0.7132	0.6438	0.5940	0.6471	0.7311	0.7919	0.7631	40- 50	2.874	1071	99.9,99.9
60	0.3666	0.3470	0.3304	0.3215	0.3448	0.3921	0.4279	0.4113	50- 60	0.4593	1072	99.9,99.9
70	0.2259	0.1959	0.2004	0.1981	0.2044	0.2323	0.2363	0.2493	60- 70	0.2800	1072	100,100
80	0.1428	0.0958	0.0768	0.0957	0.1256	0.1194	0.0702	0.1343	70- 80	0.1749	1072	100,100
90	0.0724	0.0660	0.0639	0.0660	0.0639	0.0575	0.0596	0.0575	80- 90	0.0814	1072	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	181	103
80	119	64
75	104	84
70	96	85
65	97	86
60	107	96
55	130	117
50	164	145
45	279	247

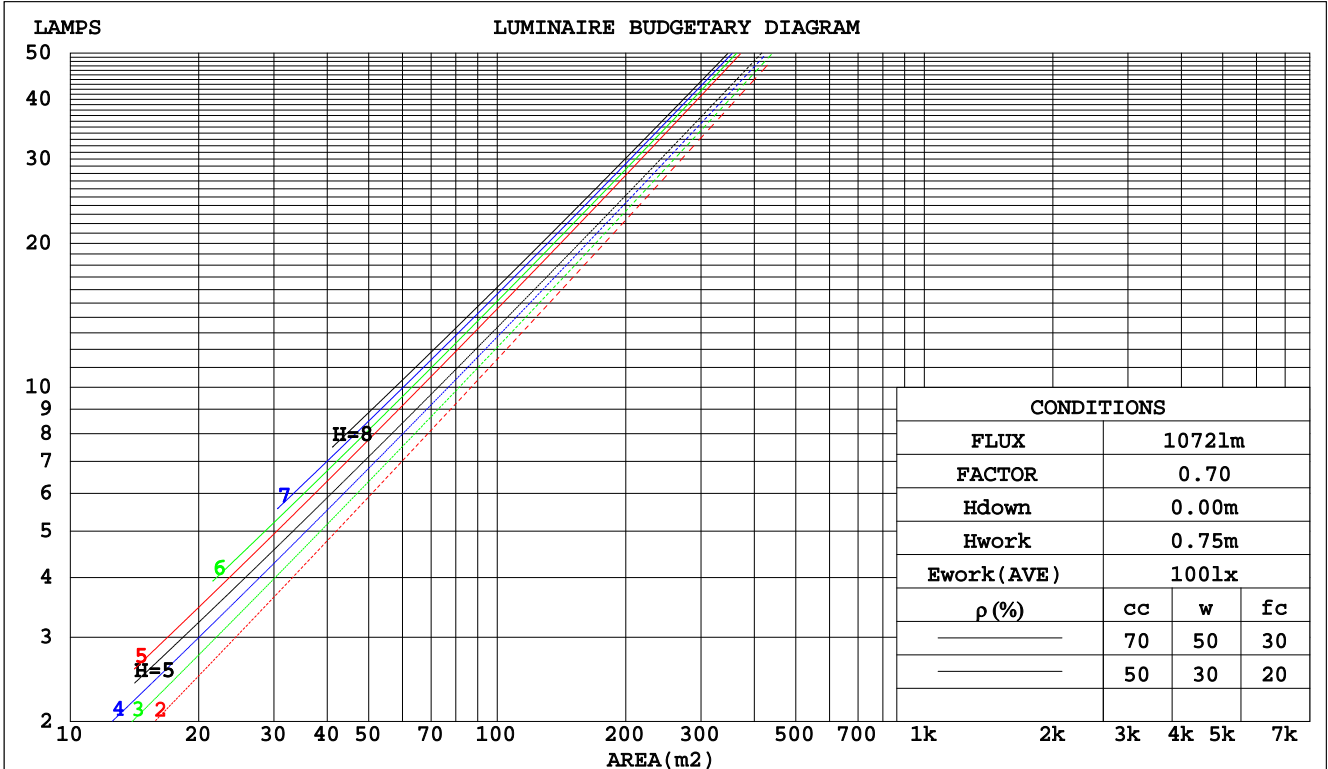
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Humidity:53.0%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.0660A P:13.18W PF:0.9045 Lamp Flux:1072.48x1 lm		
NAME: FF5-11W-830-24D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	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																0
pfc																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	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	1.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.00	.97	1.02	.99	.96	.99	.97	.94	.97	.95	.93	.95	.93	.92	.90
4.0	.99	.95	.92	.98	.94	.92	.96	.93	.91	.94	.92	.90	.93	.90	.89	.87
5.0	.95	.91	.88	.95	.91	.88	.93	.90	.87	.92	.89	.87	.90	.88	.86	.85
6.0	.92	.88	.85	.91	.88	.85	.90	.87	.84	.89	.86	.84	.88	.85	.83	.82
7.0	.89	.85	.82	.89	.85	.82	.88	.84	.82	.86	.83	.81	.86	.83	.81	.80
8.0	.86	.82	.79	.86	.82	.79	.85	.82	.79	.84	.81	.79	.83	.81	.78	.77
9.0	.84	.80	.77	.83	.80	.77	.83	.79	.77	.82	.79	.77	.81	.78	.76	.75
10.0	.82	.78	.75	.81	.77	.75	.80	.77	.75	.80	.77	.74	.79	.76	.74	.73



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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	.136	.077	.025	.130	.074	.023	.117	.067	.021	.106	.061	.020	.095	.055	.018	
2.0	.126	.069	.021	.121	.067	.020	.111	.061	.019	.101	.057	.018	.092	.052	.016	
3.0	.118	.063	.019	.113	.061	.018	.105	.057	.017	.097	.053	.016	.089	.050	.015	
4.0	.110	.057	.017	.107	.056	.016	.099	.053	.016	.093	.050	.015	.087	.047	.014	
5.0	.104	.053	.015	.101	.052	.015	.095	.049	.015	.089	.047	.014	.084	.045	.013	
6.0	.099	.049	.014	.096	.048	.014	.091	.046	.014	.086	.045	.013	.081	.043	.013	
7.0	.094	.046	.013	.091	.046	.013	.087	.044	.013	.082	.042	.012	.078	.041	.012	
8.0	.089	.044	.012	.087	.043	.012	.083	.042	.012	.080	.040	.012	.076	.039	.011	
9.0	.086	.041	.012	.084	.041	.011	.080	.040	.011	.077	.039	.011	.074	.037	.011	
10.0	.082	.039	.011	.080	.039	.011	.077	.038	.011	.074	.037	.010	.071	.036	.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	.127	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.105	.085	.069	.072	.059	.048	.042	.035	.029	.013	.011	.009	
5.0	.112	.086	.066	.096	.074	.057	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.103	.076	.056	.089	.065	.049	.061	.046	.034	.036	.027	.020	.011	.009	.007	
7.0	.096	.067	.048	.082	.058	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.089	.061	.041	.077	.053	.036	.053	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.084	.055	.036	.072	.048	.031	.050	.034	.022	.029	.020	.013	.009	.007	.004	
10.0	.079	.050	.031	.068	.044	.027	.047	.031	.019	.027	.018	.012	.009	.006	.004	

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 Humidity:53.0%
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 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	6.1	6.8	6.3	6.9	7.1	6.1	6.7	6.3	6.9	7.0
3H	6.0	6.6	6.2	6.8	7.0	5.9	6.5	6.2	6.7	6.9
4H	5.9	6.5	6.2	6.7	6.9	5.9	6.4	6.1	6.6	6.9
6H	5.8	6.4	6.1	6.6	6.8	5.8	6.3	6.1	6.6	6.8
8H	5.8	6.3	6.1	6.6	6.8	5.7	6.3	6.0	6.5	6.8
12H	5.7	6.3	6.1	6.5	6.8	5.7	6.2	6.0	6.5	6.7
4H 2H	5.9	6.5	6.2	6.7	6.9	5.9	6.4	6.1	6.6	6.9
3H	5.7	6.2	6.0	6.5	6.8	5.7	6.2	6.0	6.5	6.7
4H	5.6	6.1	6.0	6.4	6.7	5.6	6.1	5.9	6.4	6.7
6H	5.6	6.0	5.9	6.3	6.6	5.5	5.9	5.9	6.2	6.6
8H	5.5	5.9	5.9	6.2	6.6	5.4	5.8	5.8	6.2	6.5
12H	5.4	5.8	5.9	6.2	6.6	5.4	5.7	5.8	6.1	6.5
8H 4H	5.5	5.9	5.9	6.2	6.6	5.4	5.8	5.8	6.2	6.5
6H	5.4	5.7	5.8	6.1	6.5	5.3	5.7	5.8	6.0	6.5
8H	5.3	5.6	5.8	6.0	6.5	5.3	5.6	5.7	6.0	6.4
12H	5.3	5.5	5.7	6.0	6.4	5.2	5.5	5.7	5.9	6.4
12H 4H	5.4	5.8	5.8	6.2	6.5	5.4	5.7	5.8	6.1	6.5
6H	5.3	5.6	5.8	6.0	6.5	5.3	5.6	5.7	6.0	6.4
8H	5.3	5.5	5.7	6.0	6.4	5.2	5.5	5.7	5.9	6.4
Variations with the observer position at spacings:										
S = 1.0H	+ 3.9 / -12.2					+ 4.0 / -13.7				
1.5H	+ 6.7 / -11.7					+ 6.8 / -12.9				
2.0H	+ 2.0 / - 0.6					+ 2.1 / - 0.8				

CIE Pub.117 Corrected 1072 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.2)

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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	91	86	82	91	86	82	90	85	82	79
0.80	98	93	90	98	93	90	97	92	89	86
1.00	102	97	94	101	97	94	100	96	93	89
1.25	105	101	98	104	100	97	103	99	97	93
1.50	108	104	101	107	103	100	105	101	99	95
2.00	110	106	103	109	105	103	106	103	101	96
2.50	111	108	105	110	107	104	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

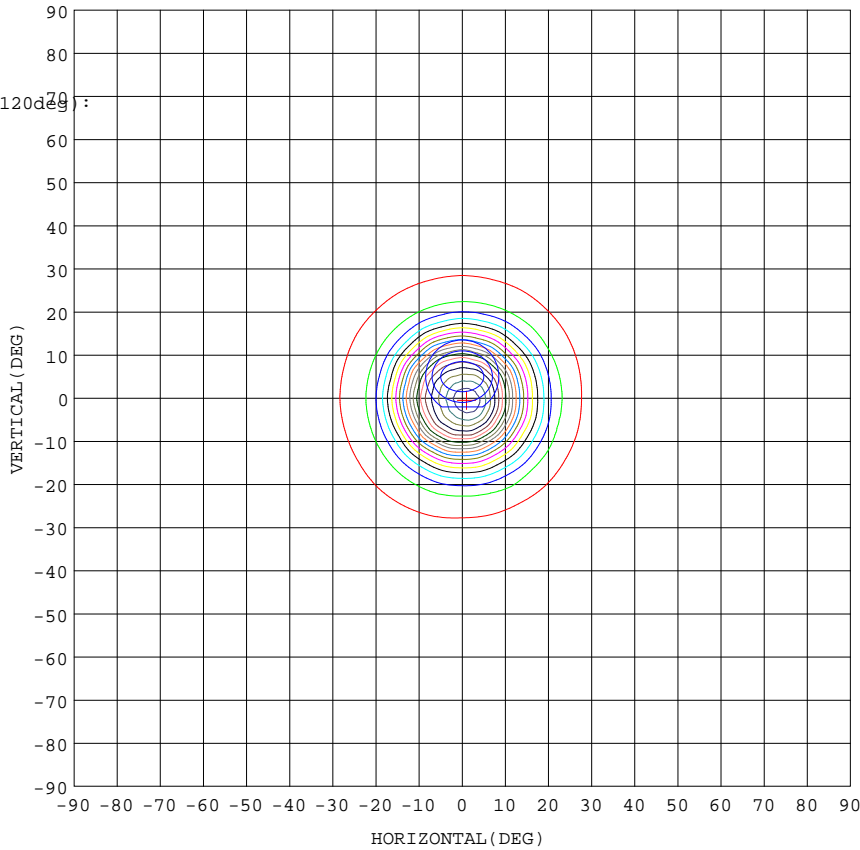
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Conical surface Flux(90deg):

1071.1 lm
%lum = 99.9%
%lamp = 99.9%

Conical surface Flux(120deg):

1071.9 lm
%lum = 99.9%
%lamp = 99.9%



- 1. AVG=4047, MIN=3554
- 2. AVG=3921, MIN=2929
- 3. AVG=3714, MIN=2177

Imax: 4764 (H1.0, V-0.5)
(At: C=15.0, Gamma=1.0)

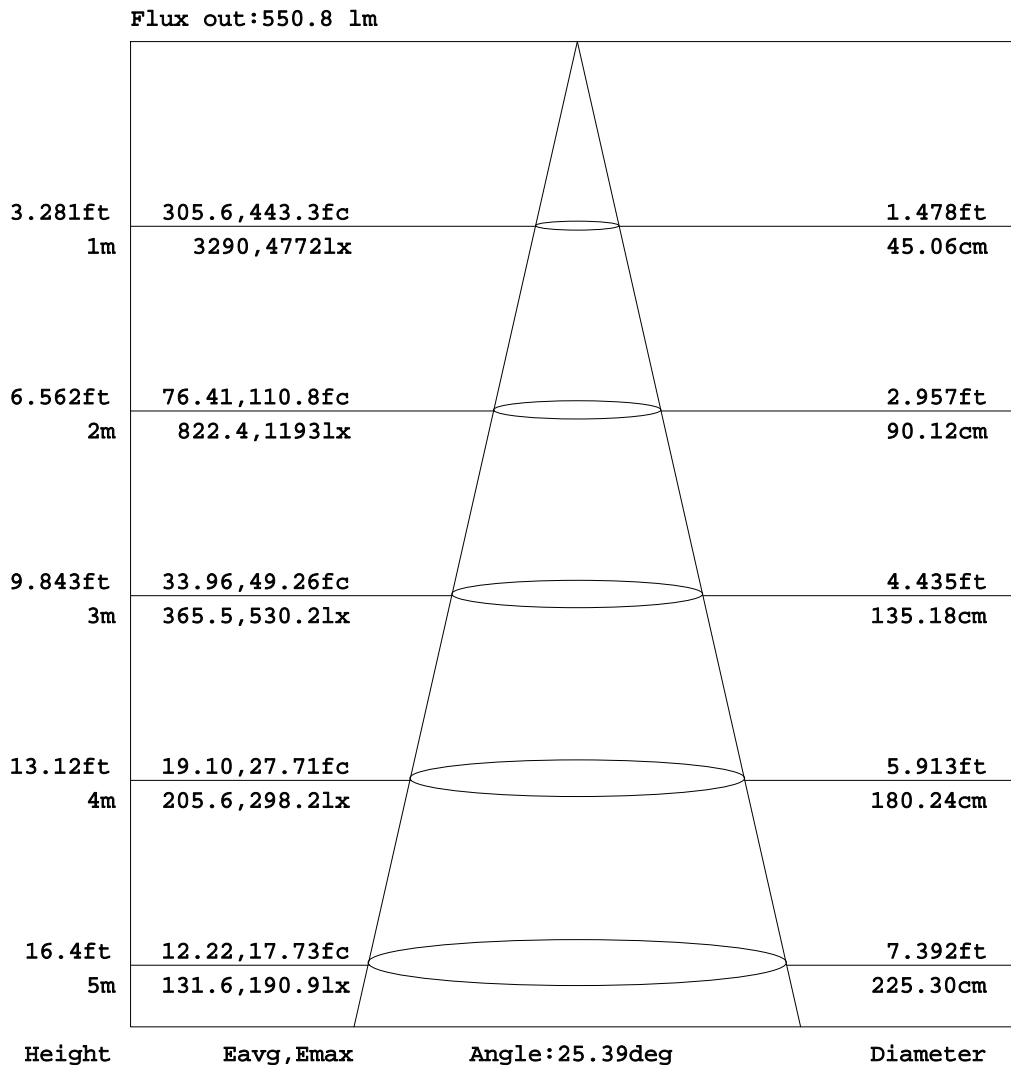
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AAI Figure

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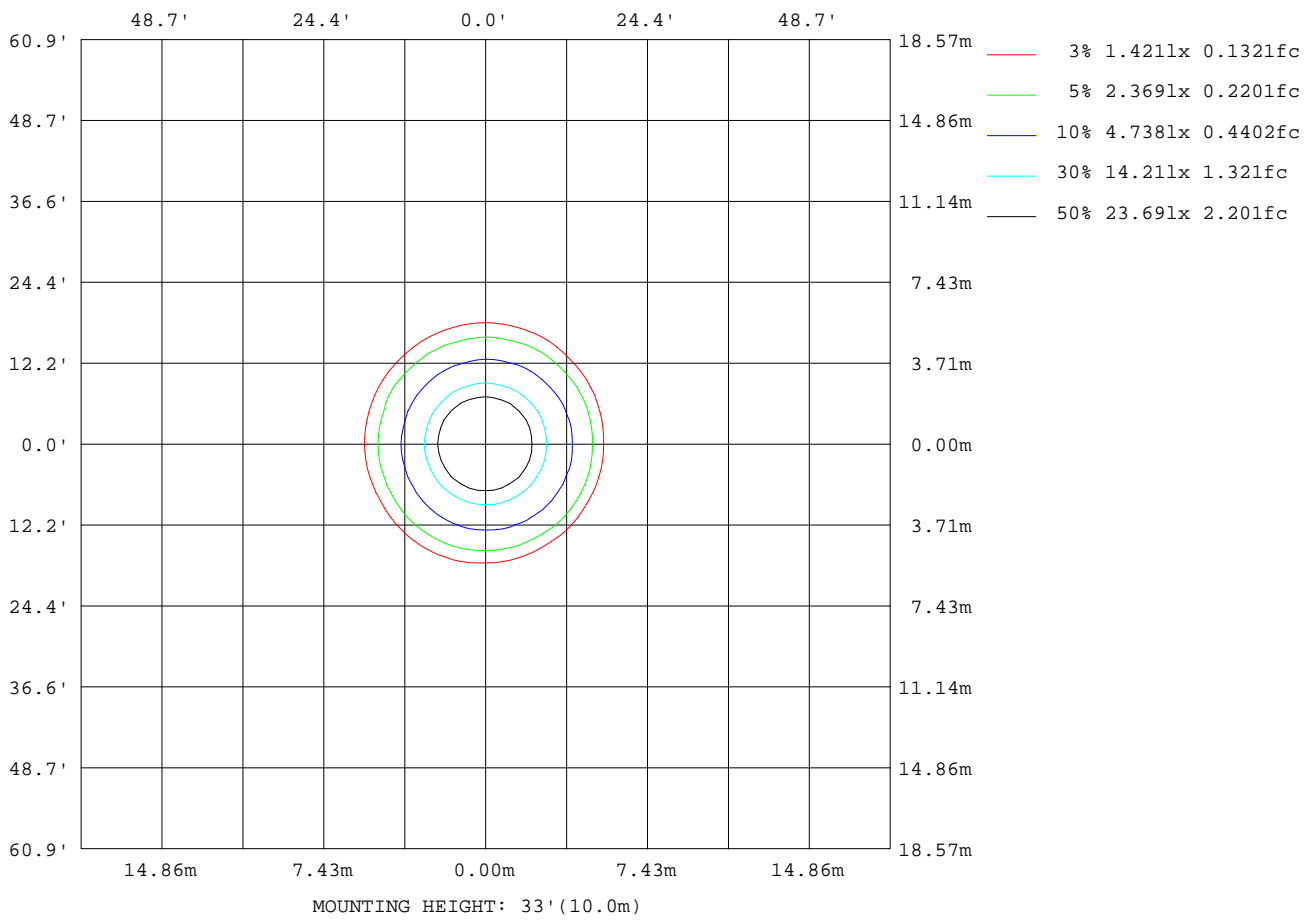
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

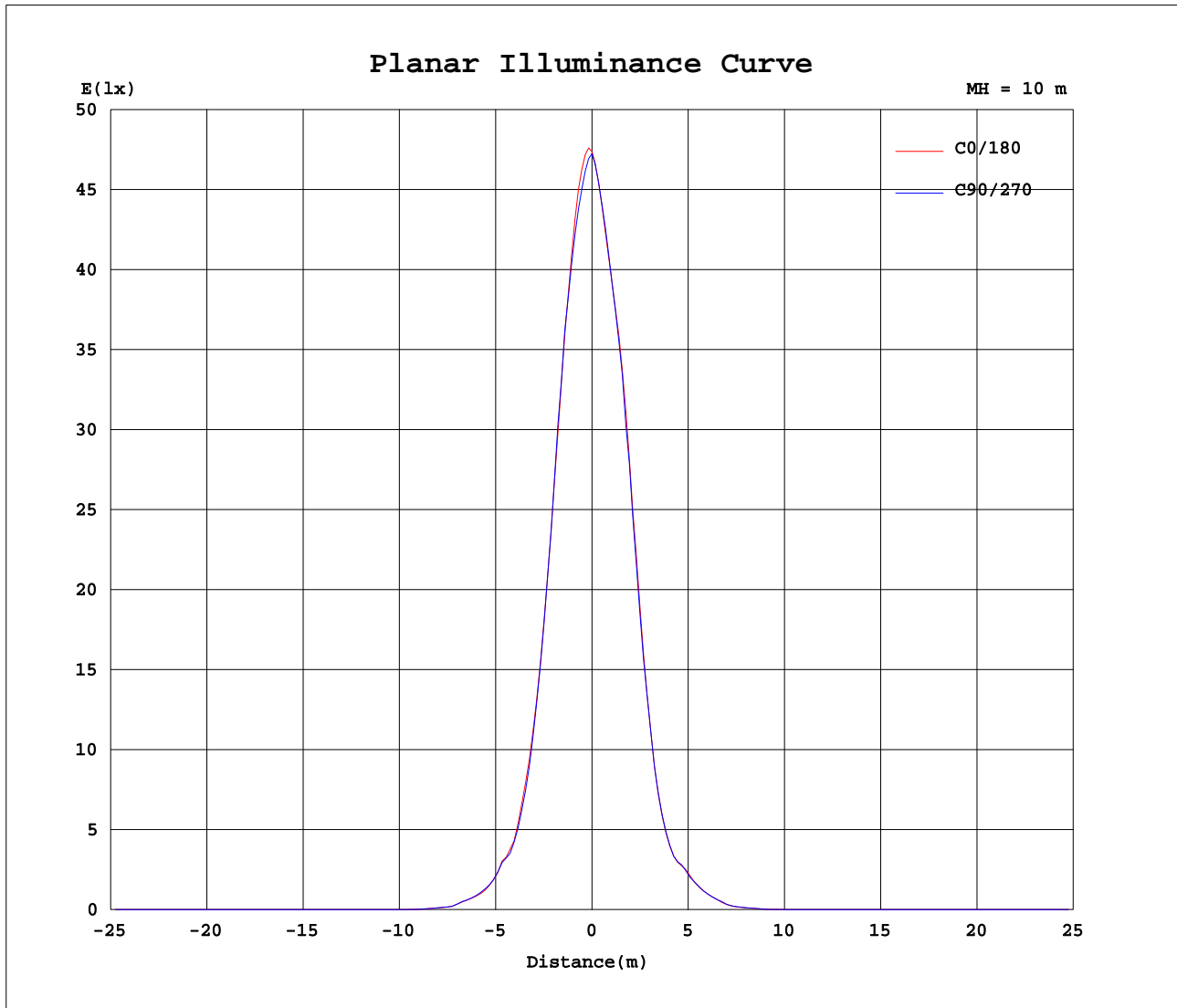
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0660A P:13.18W PF:0.9045 Lamp Flux:1072.48x1 lm		
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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	4738	4736	4734	4729	4729	4722	4725	4716	4720	4710	4712	4707	4738	4736	4734	4729	4729	4722	4725
5	4366	4402	4394	4406	4378	4332	4270	4243	4198	4172	4113	4110	4119	4101	4126	4115	4134	4102	4136
10	3123	3175	3143	3190	3156	3194	3174	3197	3181	3232	3177	3203	3257	3219	3284	3216	3234	3177	3168
15	1715	1734	1701	1729	1699	1725	1694	1725	1705	1745	1718	1737	1779	1750	1785	1737	1790	1741	1742
20	800	824	812	819	786	778	752	759	734	731	704	704	711	694	713	699	717	699	719
25	410	406	403	408	402	392	395	394	388	387	371	372	368	370	371	366	368	372	376
30	155	158	155	159	157	163	166	173	175	176	170	177	183	180	183	179	182	181	185
35	63.0	56.6	53.8	58.2	63.6	54.9	64.2	55.1	65.7	57.5	55.9	56.7	58.8	58.2	64.8	68.8	69.3	58.2	60.8
40	17.7	18.7	18.5	18.8	17.7	17.9	17.4	18.4	17.8	18.4	17.7	17.0	18.4	17.5	19.0	19.0	19.9	19.8	20.0
45	1.36	1.46	1.34	1.43	1.30	1.36	1.20	1.30	1.23	1.40	1.36	1.54	1.73	1.63	1.83	1.73	1.76	1.64	1.75
50	0.72	0.72	0.71	0.71	0.70	0.68	0.64	0.62	0.59	0.59	0.59	0.61	0.65	0.68	0.72	0.73	0.76	0.77	0.79
55	0.51	0.51	0.50	0.50	0.49	0.49	0.46	0.45	0.43	0.43	0.43	0.45	0.47	0.49	0.53	0.54	0.56	0.57	0.58
60	0.37	0.35	0.34	0.35	0.35	0.34	0.33	0.32	0.32	0.32	0.32	0.33	0.34	0.36	0.38	0.39	0.41	0.42	0.43
65	0.28	0.26	0.26	0.25	0.25	0.24	0.25	0.24	0.25	0.25	0.26	0.26	0.26	0.28	0.29	0.30	0.31	0.31	0.32
70	0.23	0.20	0.21	0.20	0.20	0.19	0.20	0.20	0.21	0.20	0.21	0.20	0.20	0.22	0.22	0.23	0.23	0.24	0.24
75	0.19	0.17	0.18	0.15	0.16	0.13	0.15	0.13	0.16	0.15	0.17	0.17	0.17	0.18	0.17	0.19	0.17	0.17	0.16
80	0.14	0.12	0.13	0.10	0.10	0.06	0.08	0.06	0.09	0.10	0.13	0.12	0.13	0.14	0.12	0.12	0.09	0.09	0.07
85	0.11	0.08	0.08	0.07	0.06	0.07	0.06	0.07	0.06	0.07	0.07	0.07	0.09	0.09	0.06	0.06	0.06	0.06	0.06
90	0.07	0.07	0.07	0.07	0.06	0.07	0.06	0.07	0.06	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Cao Chengpei
 Test Date:2016-06-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:53.0%
 Test Distance:5.850m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0660A P:13.18W PF:0.9045 Lamp Flux:1072.48x1 lm		
NAME: FF5-11W-830-24D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	4716	4720	4710	4712	4707														
5	4154	4225	4256	4319	4348														
10	3157	3196	3187	3222	3162														
15	1722	1773	1735	1768	1734														
20	723	760	767	803	802														
25	381	393	383	399	405														
30	178	179	168	167	160														
35	57.1	61.7	60.0	64.2	57.9														
40	19.6	20.0	19.0	19.0	18.3														
45	1.62	1.72	1.59	1.61	1.45														
50	0.79	0.78	0.76	0.74	0.71														
55	0.58	0.58	0.56	0.54	0.51														
60	0.43	0.43	0.41	0.40	0.37														
65	0.32	0.32	0.32	0.30	0.29														
70	0.25	0.24	0.25	0.23	0.23														
75	0.18	0.17	0.19	0.18	0.19														
80	0.09	0.09	0.13	0.13	0.14														
85	0.06	0.06	0.06	0.06	0.10														
90	0.06	0.06	0.06	0.06	0.06														

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:53.0%
Operators:Cao Chengpei	Test Distance:5.850m [K=1.0000]
Test Date:2016-06-23	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	4738	4736	4734	4729	4729	4722	4725	4716	4720	4710
3.0	4644	4654	4644	4660	4605	4583	4519	4499	4447	4431
6.0	4163	4194	4218	4228	4189	4171	4107	4082	4040	4031
9.0	3420	3466	3437	3496	3479	3517	3435	3504	3458	3480
12.0	2518	2574	2555	2576	2526	2566	2531	2591	2562	2630
15.0	1715	1734	1701	1729	1699	1725	1694	1725	1705	1745
18.0	1095	1120	1102	1116	1077	1084	1046	1064	1027	1039
21.0	661.0	681.4	672.0	681.3	652.8	649.1	626.6	634.5	616.5	613.1
24.0	430.8	442.4	431.3	437.5	444.9	436.2	423.9	427.1	415.9	412.7
27.0	267.9	273.3	267.4	270.2	261.7	269.5	268.6	284.3	286.0	286.1
30.0	155.2	158.1	155.3	158.5	156.6	162.9	166.3	173.1	175.0	175.8
33.0	101.0	102.0	100.8	101.9	103.0	103.9	102.2	104.7	106.2	102.1
36.0	41.28	41.76	41.04	41.34	39.70	39.64	39.56	42.71	43.41	43.30
39.0	23.05	23.69	22.52	23.12	22.74	23.20	22.91	23.67	23.79	24.66
42.0	5.343	5.547	5.200	5.356	5.123	5.354	5.133	5.432	5.277	5.926
45.0	1.360	1.457	1.345	1.425	1.302	1.355	1.205	1.304	1.226	1.403
48.0	0.8292	0.8303	0.8207	0.8091	0.7930	0.7665	0.7290	0.7026	0.6757	0.6749
51.0	0.6801	0.6727	0.6673	0.6663	0.6545	0.6344	0.6034	0.5812	0.5607	0.5556
54.0	0.5522	0.5429	0.5330	0.5408	0.5330	0.5195	0.4904	0.4770	0.4584	0.4599
57.0	0.4456	0.4386	0.4264	0.4343	0.4264	0.4237	0.4029	0.3918	0.3773	0.3811
60.0	0.3666	0.3513	0.3432	0.3470	0.3454	0.3385	0.3304	0.3236	0.3176	0.3215
63.0	0.3133	0.2959	0.2857	0.2832	0.2878	0.2725	0.2771	0.2725	0.2729	0.2747
66.0	0.2686	0.2491	0.2472	0.2385	0.2409	0.2278	0.2366	0.2300	0.2387	0.2364
69.0	0.2366	0.2151	0.2195	0.2044	0.2089	0.1959	0.2110	0.2002	0.2152	0.2066
72.0	0.2088	0.1916	0.1982	0.1810	0.1876	0.1745	0.1833	0.1703	0.1855	0.1789
75.0	0.1854	0.1682	0.1769	0.1533	0.1578	0.1341	0.1493	0.1320	0.1557	0.1512
78.0	0.1620	0.1384	0.1492	0.1171	0.1237	0.0894	0.1045	0.0872	0.1195	0.1213
81.0	0.1343	0.1149	0.1216	0.0851	0.0811	0.0639	0.0661	0.0618	0.0789	0.0766
84.0	0.1130	0.0894	0.0896	0.0639	0.0639	0.0660	0.0618	0.0660	0.0618	0.0660
87.0	0.0896	0.0703	0.0661	0.0660	0.0618	0.0660	0.0618	0.0660	0.0618	0.0660
90.0	0.0724	0.0724	0.0660	0.0660	0.0618	0.0660	0.0639	0.0660	0.0639	0.0660
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4712	4707	4738	4736	4734	4729	4729	4722	4725	4716
3.0	4387	4382	4410	4379	4389	4376	4402	4391	4421	4434
6.0	3989	3963	3981	3957	3983	3971	3985	3945	3973	3997
9.0	3453	3458	3491	3450	3493	3451	3465	3412	3466	3396
12.0	2592	2614	2665	2655	2678	2661	2674	2623	2625	2584
15.0	1718	1737	1779	1750	1785	1737	1790	1741	1742	1722
18.0	1002	1013	1043	1018	1047	1014	1050	1010	1043	1037
21.0	589.9	589.2	595.8	581.0	596.3	585.1	599.2	584.7	602.8	605.2
24.0	383.5	380.5	388.6	375.0	377.5	371.8	383.0	385.6	393.5	399.9
27.0	278.0	284.9	299.7	291.1	302.4	286.4	285.9	279.0	286.2	281.4
30.0	170.4	177.3	183.1	180.3	183.3	179.3	181.8	180.9	185.2	178.1
33.0	97.56	101.7	108.9	104.5	110.0	104.9	107.4	102.6	107.5	104.2
36.0	41.00	40.25	42.55	40.99	44.45	52.92	46.16	44.85	45.43	43.65
39.0	22.82	21.80	22.11	22.77	24.11	23.88	24.53	23.80	24.26	23.55
42.0	5.821	6.428	7.456	6.934	7.334	6.752	7.150	6.186	6.638	6.092
45.0	1.361	1.537	1.728	1.634	1.832	1.732	1.762	1.642	1.750	1.616
48.0	0.6757	0.6919	0.7323	0.7694	0.8047	0.8291	0.8536	0.8760	0.8962	0.9015
51.0	0.5564	0.5706	0.6066	0.6373	0.6727	0.6864	0.7173	0.7269	0.7451	0.7460
54.0	0.4584	0.4727	0.5024	0.5244	0.5578	0.5733	0.5898	0.6032	0.6195	0.6203
57.0	0.3795	0.3918	0.4151	0.4327	0.4620	0.4732	0.4918	0.5030	0.5152	0.5137
60.0	0.3240	0.3279	0.3448	0.3602	0.3811	0.3921	0.4109	0.4198	0.4279	0.4284
63.0	0.2835	0.2832	0.2895	0.3069	0.3193	0.3346	0.3449	0.3517	0.3597	0.3602
66.0	0.2451	0.2428	0.2491	0.2643	0.2725	0.2856	0.2917	0.3005	0.3002	0.3048
69.0	0.2195	0.2108	0.2150	0.2281	0.2342	0.2472	0.2448	0.2558	0.2533	0.2621
72.0	0.1961	0.1895	0.1853	0.2046	0.2002	0.2131	0.2086	0.2195	0.2086	0.2217
75.0	0.1727	0.1661	0.1661	0.1811	0.1725	0.1875	0.1660	0.1748	0.1617	0.1770
78.0	0.1492	0.1448	0.1426	0.1598	0.1447	0.1513	0.1255	0.1280	0.1084	0.1322
81.0	0.1194	0.1127	0.1192	0.1279	0.1064	0.1045	0.0660	0.0789	0.0596	0.0768
84.0	0.0790	0.0724	0.0915	0.0896	0.0681	0.0662	0.0575	0.0618	0.0596	0.0596
87.0	0.0660	0.0660	0.0660	0.0682	0.0597	0.0575	0.0575	0.0618	0.0596	0.0596
90.0	0.0660	0.0660	0.0639	0.0639	0.0618	0.0575	0.0575	0.0618	0.0596	0.0596
G/C	300.0	315.0	330.0	345.0						
0.0	4720	4710	4712	4707						
3.0	4482	4506	4564	4579						
6.0	4073	4092	4147	4152						
9.0	3463	3452	3505	3454						
12.0	2626	2579	2601	2560						
15.0	1773	1735	1768	1734						
18.0	1086	1080	1125	1109						
21.0	636.7	638.5	670.9	665.8						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Cao Chengpei

Test Date: 2016-06-23

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288

Humidity: 53.0%

Test Distance: 5.850m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	406.0	402.7	421.1	411.2
27.0	286.8	281.4	284.7	279.9
30.0	178.5	168.1	166.7	159.5
33.0	109.3	104.1	102.8	98.67
36.0	45.47	43.74	43.48	41.74
39.0	24.48	24.15	24.11	23.71
42.0	6.676	5.774	6.140	5.712
45.0	1.716	1.592	1.605	1.449
48.0	0.8856	0.8632	0.8217	0.7929
51.0	0.7429	0.7183	0.6918	0.6629
54.0	0.6174	0.5968	0.5727	0.5457
57.0	0.5131	0.4966	0.4747	0.4497
60.0	0.4300	0.4113	0.3960	0.3730
63.0	0.3598	0.3474	0.3321	0.3154
66.0	0.3023	0.2984	0.2810	0.2749
69.0	0.2555	0.2600	0.2406	0.2387
72.0	0.2128	0.2217	0.2044	0.2088
75.0	0.1724	0.1897	0.1767	0.1854
78.0	0.1298	0.1620	0.1469	0.1640
81.0	0.0723	0.1194	0.1149	0.1343
84.0	0.0596	0.0704	0.0744	0.1087
87.0	0.0596	0.0575	0.0575	0.0747
90.0	0.0596	0.0575	0.0575	0.0639

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2016-06-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks: