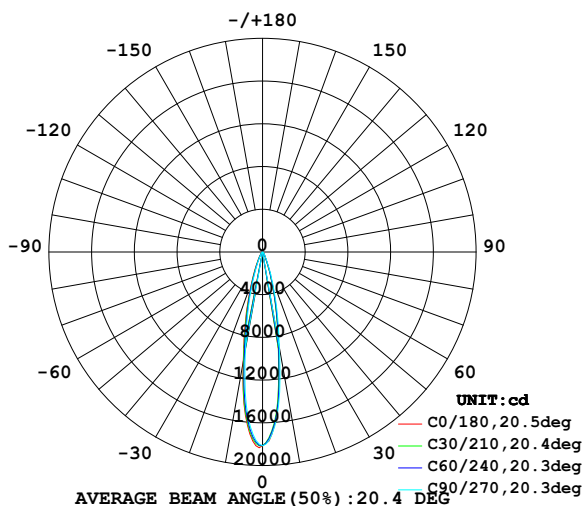


LUMINAIRE PHOTOMETRIC TEST REPORT

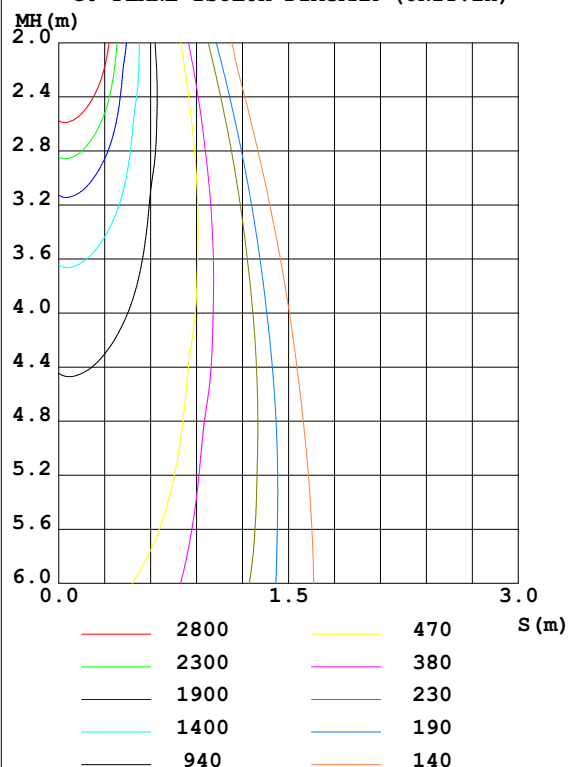
Test:U:220.1V I:0.7200A P:82.21W PF:0.5188 Lamp Flux:3565x1 lm		
NAME: CLF Dynamic white	TYPE:	WEIGHT:
SPEC.:220VAC 50Hz	DIM.:	SERIAL No.:01
MFR.: CLF Lighting BV	SUR.:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 43.36 lm/W			
MODEL		I _{max} (cd)	18338	S/MH (C0/180)	0.32
NOMINAL POWER (W)	85	LOR (%)	100.0	S/MH (C90/270)	0.35
RATED VOLTAGE (V)	100-240	TOTAL FLUX (lm)	3565.0	η UP,DN (C0-180)	0.0,51.2
NOMINAL FLUX (lm)	3565	CIE CLASS	DIRECT	UP,DN (C180-360)	0.0,48.8
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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.9DEG
Operators: Bill Li
Test Date: 2013-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity: 58.7%
Test Distance: 2.500m [K=1.0000]
Remarks:

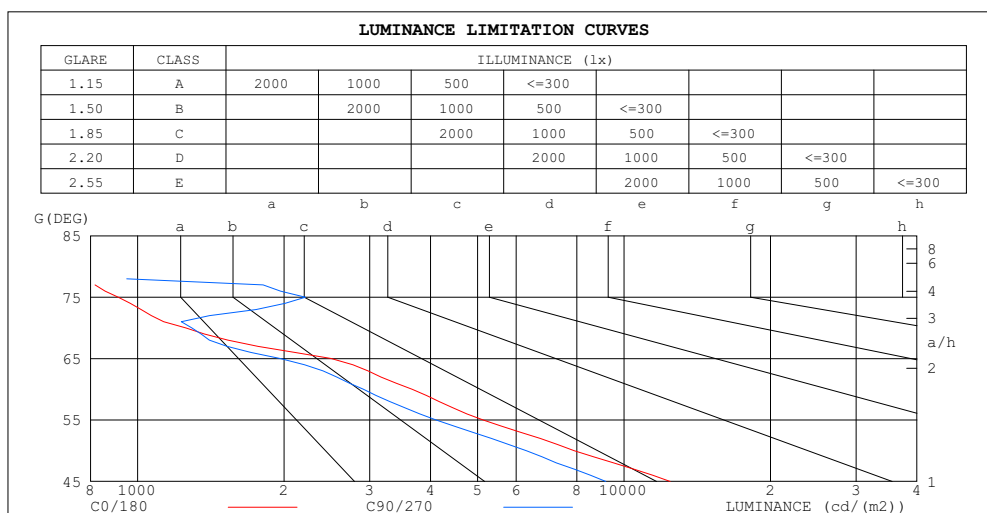
Checker: Bill Li

Assessor: Eric Duan

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	1048	1019	931.1	863.9	851.7	842.1	914.1	999.7	0- 10	1274	1274	35.7, 35.7
20	292.1	271.1	231.7	204.6	188.8	185.4	228.5	263.4	10- 20	1374	2648	74.3, 74.3
30	77.71	71.34	56.38	44.93	42.01	42.64	53.63	66.99	20- 30	526.0	3174	89, 89
40	27.71	25.58	20.57	17.14	16.28	16.27	19.81	24.01	30- 40	215.8	3390	95.1, 95.1
50	9.963	9.554	8.178	6.906	6.666	6.821	7.936	8.964	40- 50	104.3	3494	98, 98
60	3.597	3.213	2.942	2.786	2.892	2.610	2.940	3.243	50- 60	45.44	3540	99.3, 99.3
70	0.8434	0.8494	0.8935	0.6992	0.6685	0.7447	0.8306	0.7877	60- 70	17.41	3557	99.8, 99.8
80	0.2397	0.2339	0.2402	0.2271	0.2081	0.2022	0.2260	0.2396	70- 80	6.390	3564	100, 100
90	0	0	0	0	0	0	0	0	80- 90	0.9196	3565	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	3565	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	3565	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	3565	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	3565	100, 100
140	0	0	0.0004	0.0012	0.0000	0.0001	0	0	130-140	0.0003	3565	100, 100
150	0.0083	0.0083	0.0113	0.0134	0.0102	0.0098	0.0070	0.0055	140-150	0.0205	3565	100, 100
160	0.0424	0.0427	0.0474	0.0519	0.0447	0.0428	0.0372	0.0332	150-160	0.1033	3565	100, 100
170	0.0899	0.0882	0.0899	0.0931	0.0965	0.0903	0.0874	0.0826	160-170	0.1866	3565	100, 100
180	0.0878	0.0776	0.0781	0.0798	0.0890	0.0778	0.0785	0.0798	170-180	0.0811	3565	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	442	515
80	704	685
75	912	2212
70	1257	1293
65	2501	1964
60	3668	2912
55	5136	4109
50	7903	6298
45	12437	9174

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.9DEG
Operators: Bill Li
Test Date: 2013-11-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity: 58.7%
Test Distance: 2.500m [K=1.0000]
Remarks:

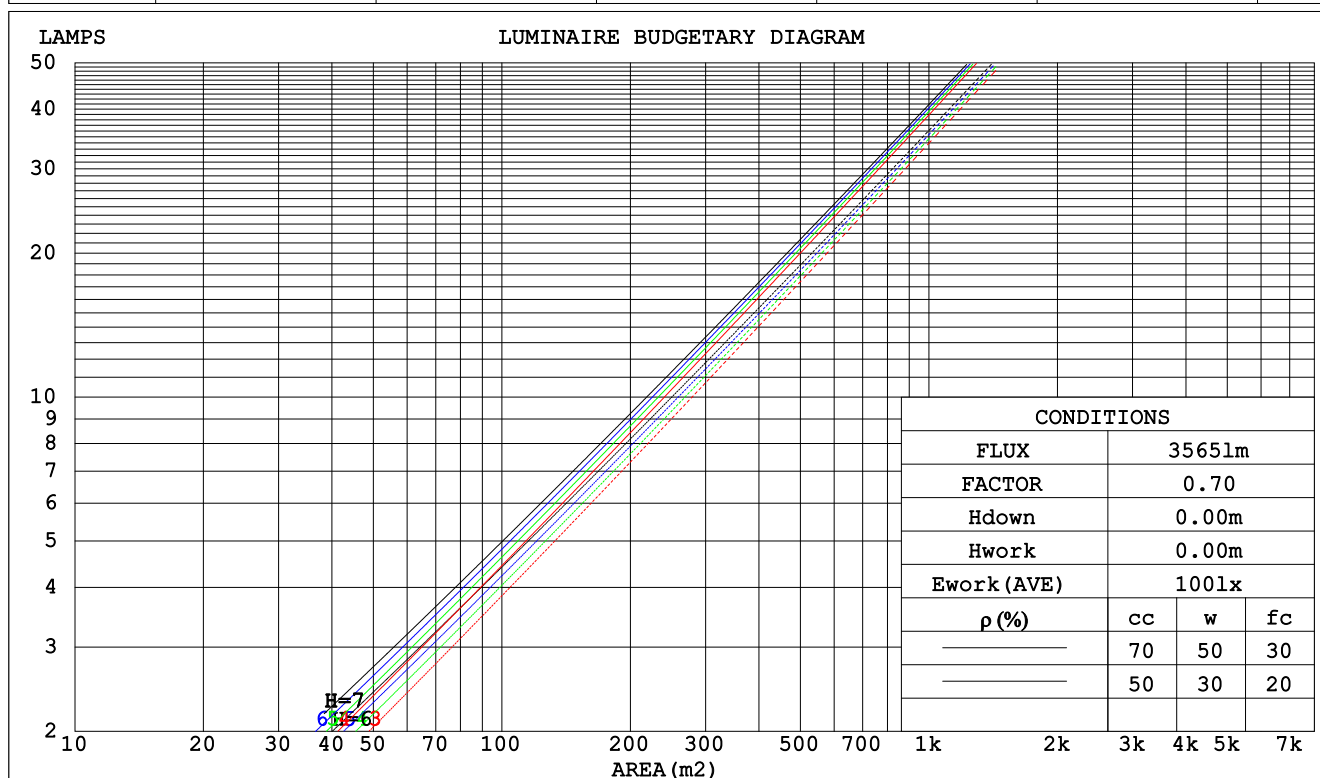
Checker: Bill Li

Assessor: Eric Duan

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.1V I:0.7200A P:82.21W PF:0.5188 Lamp Flux:3565x1 lm		
NAME: CLF dynamich white	TYPE:	WEIGHT:
SPEC.:220VAC 50Hz	DIM.:	SERIAL No.:01
MFR.: CLF lighting BV	SUR.:	

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	.00
1.0	1.13	1.10	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2.0	1.07	1.04	1.01	1.05	1.02	.00	1.02	.00	.98	.99	.97	.96	.96	.95	.94	.92
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.93	.96	.93	.91	.94	.92	.90	.89
4.0	.97	.93	.90	.96	.93	.90	.94	.91	.89	.93	.90	.88	.91	.88	.87	.85
5.0	.94	.89	.86	.93	.89	.86	.91	.88	.85	.90	.87	.84	.88	.86	.83	.82
6.0	.90	.86	.82	.89	.85	.82	.88	.84	.82	.87	.84	.81	.86	.83	.81	.80
7.0	.87	.83	.79	.86	.82	.79	.85	.82	.79	.84	.81	.78	.83	.80	.78	.77
8.0	.84	.80	.77	.84	.79	.77	.83	.79	.76	.82	.78	.76	.81	.78	.76	.75
9.0	.82	.77	.74	.81	.77	.74	.80	.77	.74	.80	.76	.74	.79	.76	.74	.73
10.0	.79	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.72	.77	.74	.72	.71



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Bill Li
Test Date:2013-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity:58.7%
Test Distance:2.500m [K=1.0000]
Remarks:

Checker: Bill Li

Assessor: Eric Duan

WEC AND CCEC

Test:U:220.1V I:0.7200A P:82.21W PF:0.5188 Lamp Flux:3565x1 lm														
NAME: CLF dynamic white							TYPE:				WEIGHT:			
SPEC.:220VAC 50Hz							DIM.:				SERIAL No.:01			
MFR.: CLF LIGHTING BV							SUR.:							

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.144	.082	.026	.138	.079	.025	.125	.072	.023	.114	.066	.021	.103	.060	.019	
2.0	.135	.074	.023	.129	.071	.022	.119	.066	.021	.110	.061	.019	.101	.057	.018	
3.0	.126	.067	.020	.121	.065	.020	.113	.061	.019	.105	.057	.018	.097	.054	.017	
4.0	.118	.061	.018	.114	.060	.018	.107	.057	.017	.100	.054	.016	.094	.051	.016	
5.0	.111	.057	.016	.108	.055	.016	.102	.053	.016	.096	.051	.015	.091	.048	.015	
6.0	.105	.053	.015	.102	.052	.015	.097	.050	.014	.092	.048	.014	.087	.046	.014	
7.0	.100	.049	.014	.097	.049	.014	.093	.047	.013	.088	.045	.013	.084	.044	.013	
8.0	.095	.046	.013	.093	.046	.013	.089	.044	.013	.085	.043	.012	.081	.042	.012	
9.0	.091	.044	.012	.089	.043	.012	.085	.042	.012	.082	.041	.012	.078	.040	.012	
10.0	.087	.042	.012	.085	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.148	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.117	.130	.114	.101	.089	.079	.071	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.095	.117	.098	.082	.081	.068	.058	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.078	.107	.085	.068	.074	.059	.048	.043	.035	.028	.014	.011	.009	
5.0	.114	.086	.065	.098	.074	.057	.068	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.106	.076	.055	.091	.066	.048	.063	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.098	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.092	.061	.040	.079	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.056	.035	.074	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.031	.070	.044	.027	.048	.031	.019	.028	.018	.011	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Bill Li
 Test Date:2013-11-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
 Humidity:58.7%
 Test Distance:2.500m [K=1.0000]
 Remarks:

Checker: Bill Li

Assessor: Eric Duan

UGR(Unified Glare Rating) Table

Test:U:220.1V I:0.7200A P:82.21W PF:0.5188 Lamp Flux:3565x1 lm										
NAME: CLF DYNAMIC WHITE					TYPE:			WEIGHT:		
SPEC.:220VAC 50Hz					DIM.:			SERIAL No.:01		
MFR.: CLF LIGHTING BV					SUR.:					
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	13.8	14.5	14.0	14.7	14.8	12.7	13.4	12.9	13.5	13.7
3H	13.8	14.4	14.0	14.6	14.8	12.6	13.3	12.9	13.5	13.6
4H	13.7	14.3	14.0	14.5	14.8	12.6	13.2	12.9	13.4	13.7
6H	13.7	14.2	13.9	14.5	14.7	12.6	13.1	12.8	13.4	13.6
8H	13.6	14.2	13.9	14.4	14.7	12.5	13.1	12.8	13.3	13.6
12H	13.6	14.1	13.9	14.4	14.6	12.5	13.0	12.8	13.3	13.6
4H 2H	13.7	14.3	14.0	14.5	14.8	12.6	13.2	12.9	13.4	13.6
3H	13.7	14.2	14.0	14.5	14.7	12.6	13.1	12.9	13.4	13.6
4H	13.6	14.1	14.0	14.4	14.7	12.6	13.1	12.9	13.4	13.7
6H	13.6	14.0	13.9	14.3	14.7	12.5	12.9	12.9	13.3	13.6
8H	13.5	13.9	13.9	14.3	14.6	12.5	12.9	12.9	13.2	13.6
12H	13.5	13.9	13.9	14.2	14.6	12.4	12.8	12.8	13.2	13.5
8H 4H	13.5	13.9	13.9	14.3	14.7	12.5	12.9	12.8	13.2	13.6
6H	13.5	13.8	13.9	14.2	14.6	12.4	12.7	12.8	13.1	13.5
8H	13.4	13.7	13.9	14.1	14.6	12.4	12.7	12.8	13.1	13.5
12H	13.4	13.6	13.8	14.1	14.5	12.3	12.6	12.8	13.0	13.5
12H 4H	13.5	13.9	13.9	14.2	14.6	12.4	12.8	12.8	13.2	13.5
6H	13.4	13.7	13.8	14.1	14.6	12.3	12.7	12.8	13.1	13.5
8H	13.4	13.6	13.8	14.1	14.5	12.3	12.6	12.8	13.0	13.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 4.0					+ 1.9 / - 3.7				
1.5H	+ 3.1 / - 3.5					+ 2.4 / - 2.7				
2.0H	+ 4.0 / - 3.9					+ 3.6 / - 2.8				

CIE Pub.117 Corrected 3565 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.4)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Bill Li
Test Date:2013-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity:58.7%
Test Distance:2.500m [K=1.0000]
Remarks:

Checker: Bill Li

Assessor: Eric Duan

UTILIZATION FACTORS TABLE

Test:U:220.1V I:0.7200A P:82.21W PF:0.5188 Lamp Flux:3565x1 lm		
NAME: CLF DYNAMIC WHITE	TYPE:	WEIGHT:
SPEC.:220VAC 50Hz	DIM.:	SERIAL No.:01
MFR.: CLF LIGHTING BV	SUR.:	

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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	79	88	82	79	87	82	78	75
0.80	96	90	87	95	90	86	94	89	86	82
1.00	100	95	91	99	94	91	98	94	90	86
1.25	104	99	96	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Bill Li
Test Date:2013-11-08

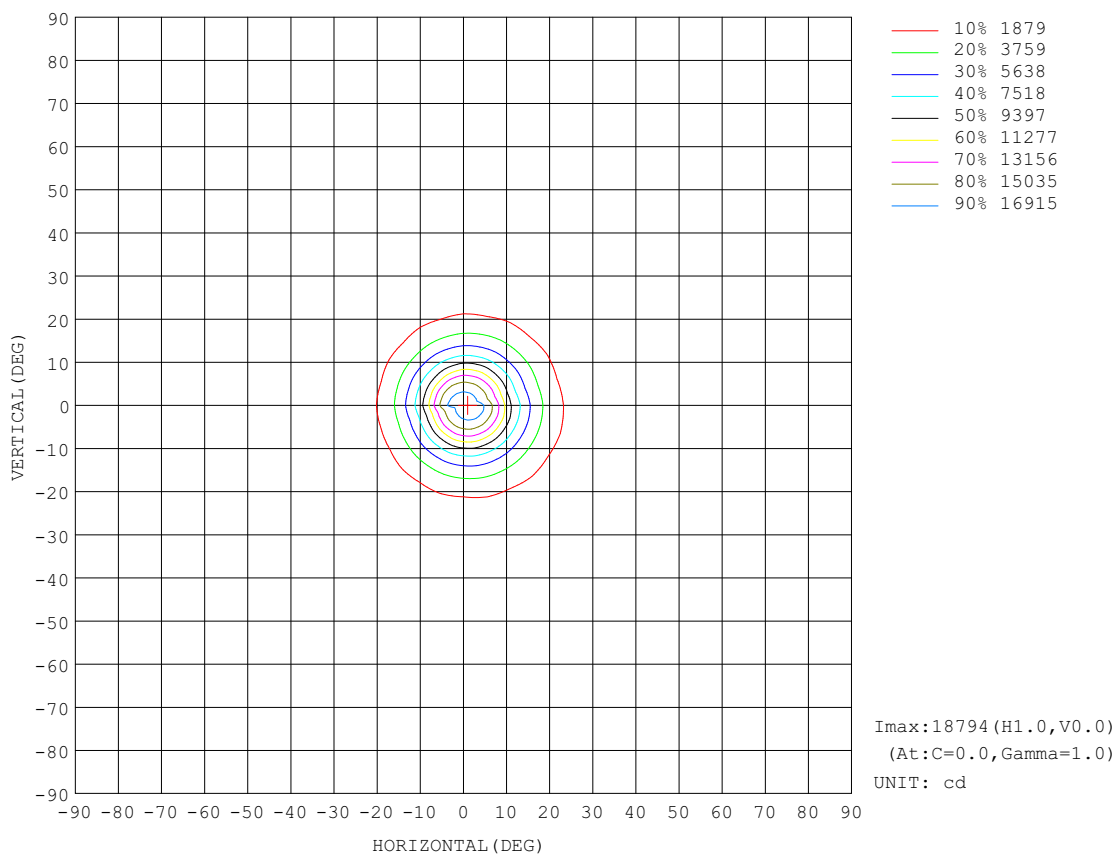
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity:58.7%
Test Distance:2.500m [K=1.0000]
Remarks:

Checker: Bill Li

Assessor: Eric Duan

ISOCANDELA DIAGRAM

Test:U:220.1V I:0.7200A P:82.21W PF:0.5188 Lamp Flux:3565x1 lm		
NAME: CLF DYNAMIC WHITE	TYPE:	WEIGHT:
SPEC.:220VAC 50Hz	DIM.:	SERIAL No.:01
MFR.: CLF LIGHTING BV	SUR.:	



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Bill Li
Test Date:2013-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity:58.7%
Test Distance:2.500m [K=1.0000]
Remarks:

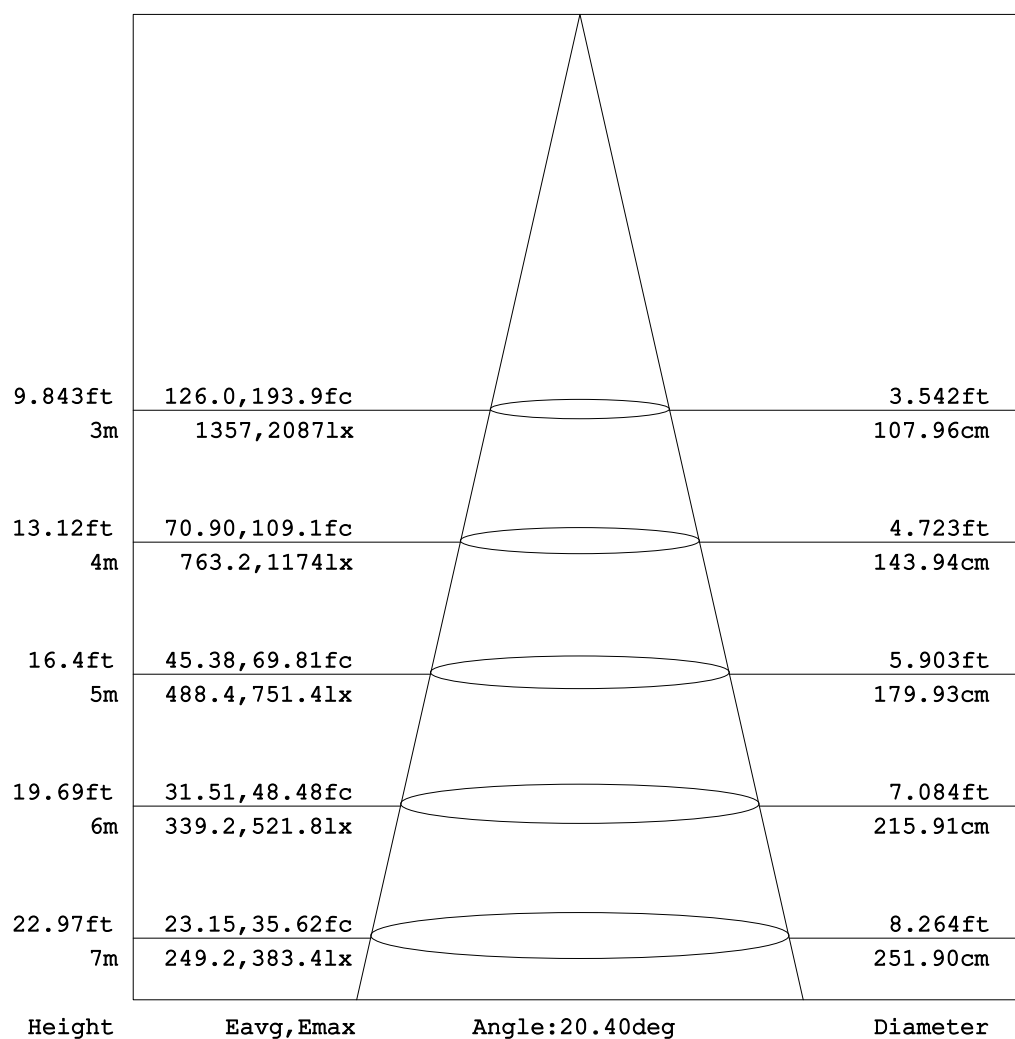
Checker: Bill Li

Assessor: Eric Duan

AAI Figure

Test:U:220.1V I:0.7200A P:82.21W PF:0.5188 Lamp Flux:3565x1 lm		
NAME: CLF DYNAMIC WHITE	TYPE:	WEIGHT:
SPEC.:220VAC 50Hz	DIM.:	SERIAL No.:01
MFR.: CLF LIGHTING BV	SUR.:	

Flux out:1449 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: 24.9DEG
Operators: Bill Li
Test Date: 2013-11-08

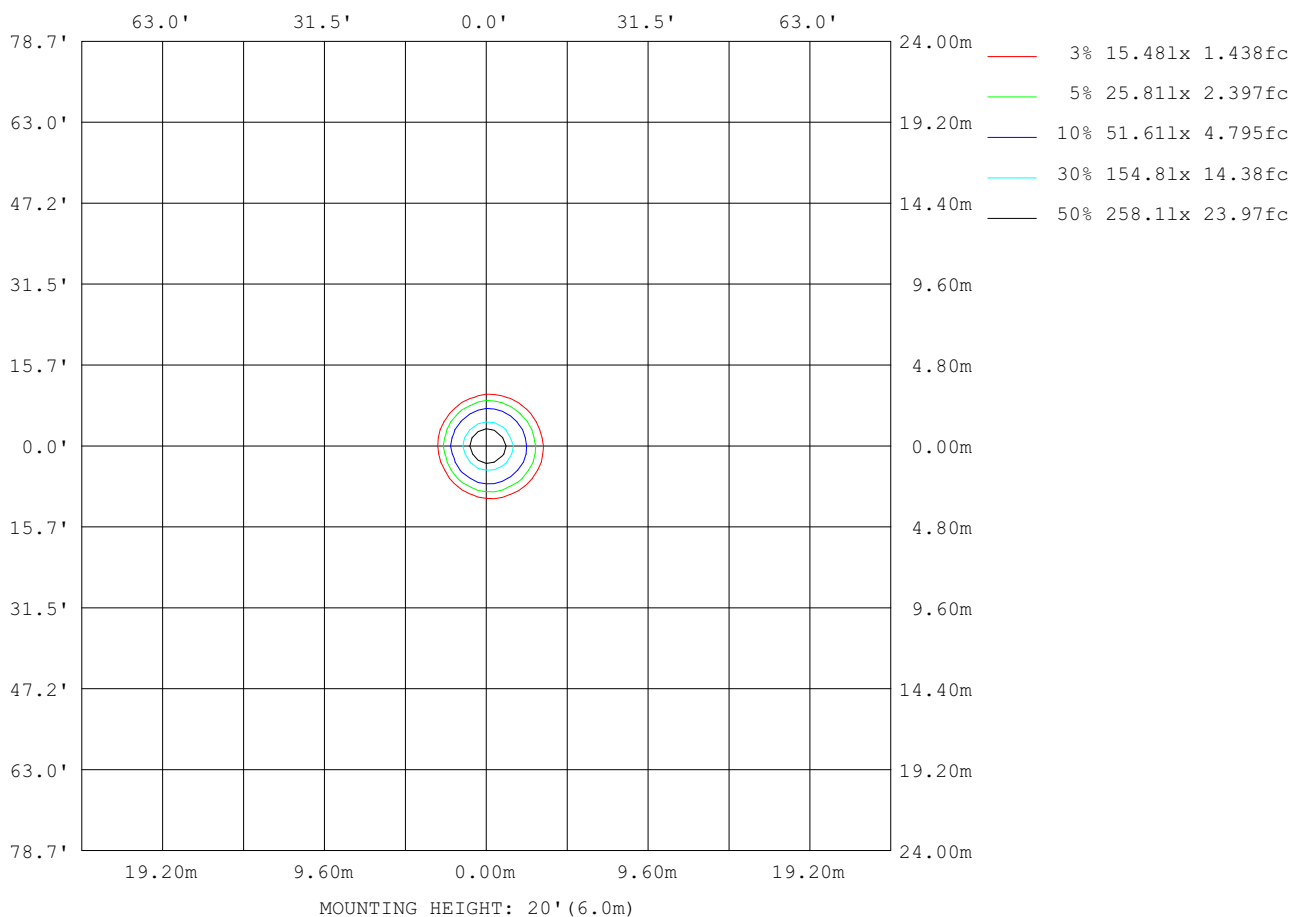
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity: 58.7%
Test Distance: 2.500m [K=1.0000]
Remarks:

Checker: Bill Li

Assessor: Eric Duan

ISOLUX DIAGRAM

Test:U:220.1V I:0.7200A P:82.21W PF:0.5188 Lamp Flux:3565x1 lm		
NAME: CLF DYNAMIC WHITE	TYPE:	WEIGHT:
SPEC.:220VAC 50Hz	DIM.:	SERIAL No.:01
MFR.: CLF LIGHTING BV	SUR.:	



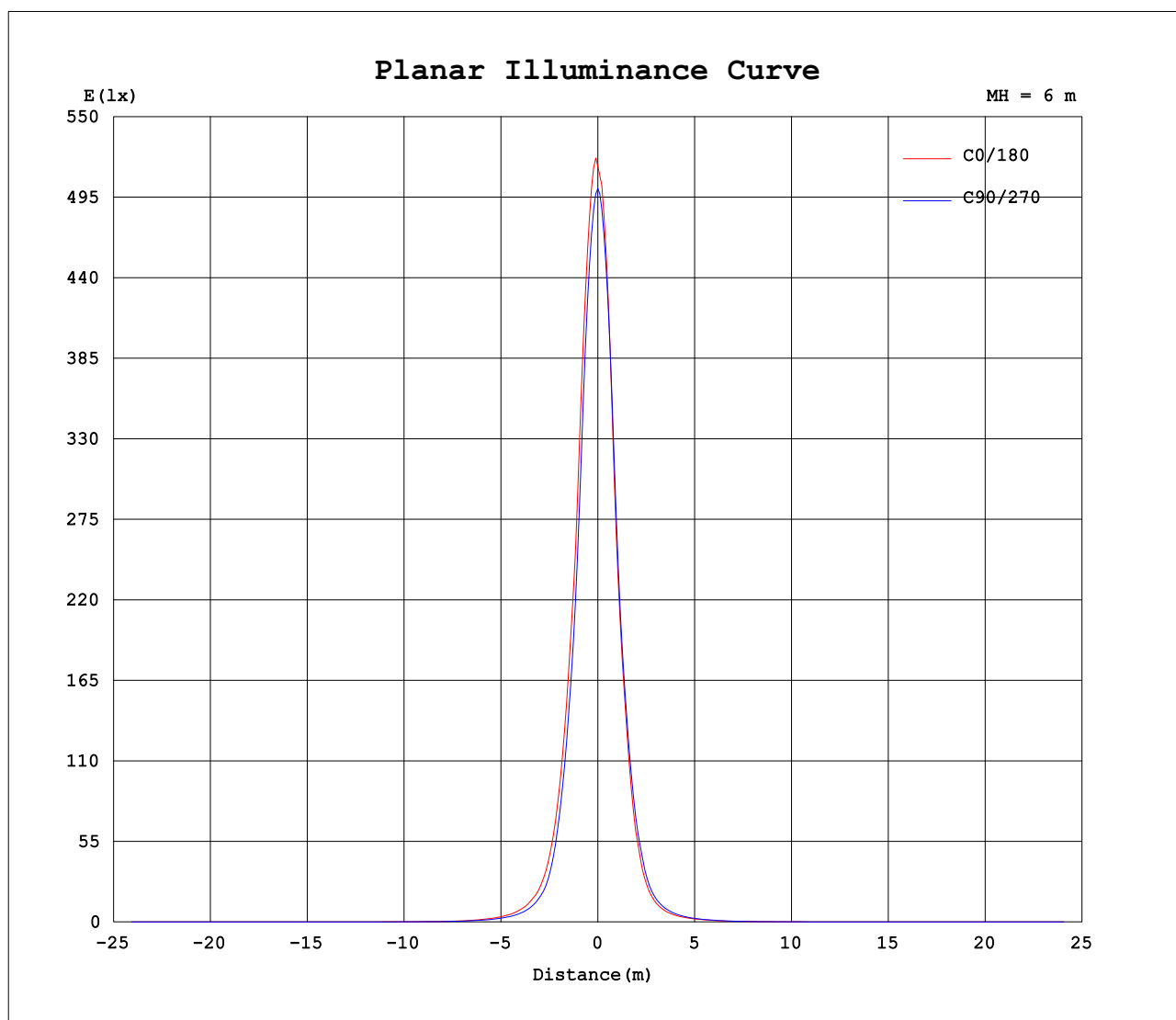
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Bill Li
Test Date:2013-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity:58.7%
Test Distance:2.500m [K=1.0000]
Remarks:

Checker: Bill Li

Assessor: Eric Duan

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.9DEG
Operators: Bill Li
Test Date: 2013-11-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity: 58.7%
Test Distance: 2.500m [K=1.0000]
Remarks:

Checker: Bill Li

Assessor: Eric Duan

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.7200A P:82.21W PF:0.5188 Lamp Flux:3565x1 lm		
NAME: CLF DYNAMIC WHITE	TYPE:	WEIGHT:
SPEC.:220VAC 50Hz	DIM.:	SERIAL No.:01
MFR.: CLF LIGHTING BV	SUR.:	

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813	1813
5	1630	1624	1613	1608	1588	1577	1554	1542	1521	1513	1497	1495	1525	1494	1504	1507	1522	1528	1549
10	1048	1052	1033	1019	986	966	931	911	880	864	842	836	852	829	837	842	864	880	914
15	586	576	562	554	532	519	496	480	458	446	430	424	432	418	425	429	445	458	481
20	292	286	277	271	258	248	232	228	206	205	185	187	189	175	188	185	204	207	229
25	142	143	134	131	119	115	103	99.5	92.6	86.8	80.8	79.0	81.1	79.0	80.7	83.3	88.4	90.1	101
30	77.7	76.4	74.1	71.3	65.8	62.1	56.4	52.7	47.4	44.9	42.1	41.3	42.0	40.4	41.7	42.6	46.0	48.6	53.6
35	44.7	44.3	42.7	41.5	38.4	36.3	33.0	30.7	27.9	26.7	25.1	24.6	24.9	24.1	24.9	25.4	27.2	28.7	31.4
40	27.7	27.4	26.3	25.6	23.9	22.8	20.6	19.3	17.8	17.1	16.1	15.8	16.3	15.5	16.0	16.3	17.4	18.0	19.8
45	17.2	17.1	16.4	16.1	14.9	14.6	13.1	12.4	11.4	11.4	10.5	10.4	10.7	10.3	10.5	10.5	11.4	11.6	12.6
50	9.96	9.95	9.68	9.55	8.91	8.53	8.18	7.65	7.16	6.91	6.91	6.70	6.67	6.41	6.81	6.82	6.97	7.23	7.94
55	5.78	5.68	5.46	5.41	5.16	5.09	4.76	4.64	4.40	4.42	4.26	4.29	4.28	4.19	4.23	4.25	4.43	4.50	4.72
60	3.60	3.46	3.25	3.21	3.28	3.18	2.94	2.83	2.90	2.79	2.71	2.65	2.89	2.66	2.65	2.61	2.92	2.89	2.94
65	2.07	1.97	1.89	1.84	1.94	1.76	1.68	1.59	1.58	1.46	1.47	1.45	1.48	1.33	1.42	1.38	1.50	1.48	1.61
70	0.84	0.82	0.89	0.85	0.79	0.78	0.89	0.79	0.70	0.70	0.92	0.78	0.67	0.65	0.81	0.74	0.68	0.69	0.83
75	0.46	0.45	1.07	0.71	0.43	0.43	1.16	0.64	0.40	0.40	1.20	0.80	0.37	0.36	1.06	0.90	0.38	0.39	0.98
80	0.24	0.23	0.24	0.23	0.23	0.23	0.24	0.23	0.22	0.23	0.24	0.23	0.21	0.20	0.20	0.20	0.20	0.21	0.23
85	0.08	0.08	0.08	0.09	0.08	0.08	0.09	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.08	0.08	0.08	0.07	0.08
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
95	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
100	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
105	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
110	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
115	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
120	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
125	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
130	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
135	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
140	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
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
155	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04
165	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07
170	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09
175	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
180	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Bill Li
Test Date:2013-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity:58.7%
Test Distance:2.500m [K=1.0000]
Remarks:

Checker: Bill Li

Assessor: Eric Duan

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.7200A P:82.21W PF:0.5188 Lamp Flux:3565x1 lm		
NAME: CLF DYNAMIC WHITE	TYPE:	WEIGHT:
SPEC.:220VAC 50Hz	DIM.:	SERIAL No.:01
MFR.: CLF LIGHTING BV	SUR.:	

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1813	1813	1813	1813	1813														
5	1561	1581	1592	1611	1614														
10	941	980	1000	1029	1038														
15	498	525	540	561	566														
20	234	252	263	278	281														
25	104	117	121	133	134														
30	57.4	63.2	67.0	72.0	73.5														
35	33.5	36.7	39.0	41.8	42.7														
40	20.8	23.1	24.0	25.7	26.2														
45	13.3	14.7	15.1	16.2	16.4														
50	8.19	8.62	8.96	9.79	9.71														
55	4.83	5.09	5.20	5.51	5.62														
60	2.95	3.28	3.24	3.39	3.42														
65	1.64	1.76	1.82	2.19	2.14														
70	0.85	0.76	0.79	1.97	1.70														
75	0.94	0.44	0.45	1.35	1.13														
80	0.23	0.23	0.24	0.27	0.26														
85	0.07	0.06	0.06	0.07	0.08														
90	0.00	0.00	0.00	0.00	0.00														
95	0.00	0.00	0.00	0.00	0.00														
100	0.00	0.00	0.00	0.00	0.00														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.01	0.01	0.01	0.00	0.00														
155	0.02	0.02	0.02	0.01	0.01														
160	0.04	0.03	0.03	0.03	0.03														
165	0.06	0.06	0.06	0.06	0.06														
170	0.09	0.08	0.08	0.08	0.08														
175	0.08	0.08	0.08	0.08	0.08														
180	0.08	0.08	0.08	0.08	0.08														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Bill Li
Test Date:2013-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity:58.7%
Test Distance:2.500m [K=1.0000]
Remarks:

Checker: Bill Li

Assessor: Eric Duan

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	18129	18129	18129	18129	18129	18129	18129	18129	18129	18129
3.0	17728	17611	17527	17483	17344	17260	17107	17023	16891	16839
6.0	15384	15336	15217	15148	14914	14775	14501	14335	14063	13955
9.0	11817	11831	11671	11525	11182	10938	10566	10329	9983	9801
12.0	8375	8257	8107	7978	7721	7559	7292	7114	6853	6731
15.0	5859	5758	5620	5535	5322	5186	4964	4804	4582	4462
18.0	3903	3831	3728	3664	3499	3390	3214	3070	2879	2767
21.0	2525	2483	2402	2335	2193	2163	1954	1937	1733	1688
24.0	1633	1638	1540	1508	1374	1323	1193	1159	1048	1019
27.0	1085	1095	1031	1014	917.2	883.4	813.4	758.6	683.6	651.5
30.0	777.1	764.2	741.4	713.4	658.3	621.2	563.8	526.9	474.5	449.3
33.0	552.0	547.4	526.2	513.7	473.8	447.3	406.5	378.5	342.4	325.5
36.0	403.6	400.2	386.2	375.1	347.9	328.9	298.4	278.2	253.6	242.8
39.0	303.5	300.2	288.9	280.5	261.7	247.4	224.9	213.0	194.2	186.5
42.0	229.9	226.6	217.1	213.8	197.9	188.9	170.6	160.9	148.9	145.5
45.0	172.5	171.1	164.0	160.5	149.2	146.0	131.1	123.9	114.0	113.8
48.0	124.9	124.9	120.8	118.6	109.0	106.9	98.11	93.28	85.89	84.30
51.0	90.05	88.82	87.85	85.61	80.60	76.56	73.63	69.12	64.97	63.03
54.0	64.47	63.48	61.72	60.99	57.51	56.41	53.10	51.28	48.06	48.12
57.0	47.46	46.17	43.59	43.70	42.86	42.47	38.94	37.68	37.71	37.71
60.0	35.97	34.58	32.45	32.13	32.79	31.83	29.42	28.34	29.04	27.86
63.0	26.50	25.56	24.31	23.98	24.68	23.48	22.06	20.95	21.33	19.96
66.0	16.80	16.55	15.64	15.62	15.82	14.70	14.05	13.33	12.77	12.25
69.0	9.647	9.656	10.01	9.816	9.112	9.061	9.781	8.940	8.201	7.953
72.0	6.466	6.281	7.396	6.998	6.017	6.073	6.775	6.647	5.669	5.658
75.0	4.630	4.504	10.69	7.088	4.303	4.316	11.57	6.424	4.010	4.002
78.0	3.180	3.091	4.710	4.073	2.947	2.968	3.989	3.332	2.879	2.867
81.0	1.995	1.981	2.016	2.012	1.945	1.987	2.045	1.992	1.937	1.985
84.0	1.021	1.053	1.114	1.137	1.088	1.067	1.149	1.201	1.181	1.180
87.0	0.1365	0.1849	0.1531	0.1887	0.1073	0.1062	0.0692	0.0584	0.0155	0
90.0	0	0	0	0	0	0	0	0	0	0
93.0	0	0	0	0	0	0	0	0	0	0
96.0	0	0	0	0	0	0	0	0	0	0
99.0	0	0	0	0	0	0	0	0	0	0
102.0	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
108.0	0	0	0	0	0	0	0	0	0	0
111.0	0	0	0	0	0	0	0	0	0	0
114.0	0	0	0	0	0	0	0	0	0	0
117.0	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
123.0	0	0	0	0	0	0	0	0	0	0
126.0	0	0	0	0	0	0	0	0	0	0
129.0	0	0	0	0	0	0	0	0	0	0
132.0	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
138.0	0	0	0	0	0	0	0	0	0.0034	0.0020
141.0	0	0	0	0.0000	0.0028	0.0039	0.0105	0.0101	0.0164	0.0176
144.0	0.0127	0.0103	0.0142	0.0137	0.0217	0.0225	0.0297	0.0302	0.0403	0.0421
147.0	0.0390	0.0353	0.0419	0.0403	0.0494	0.0514	0.0625	0.0651	0.0768	0.0775
150.0	0.0829	0.0767	0.0853	0.0832	0.0951	0.0985	0.1125	0.1158	0.1332	0.1337
153.0	0.1510	0.1428	0.1515	0.1503	0.1647	0.1673	0.1862	0.1926	0.2133	0.2145
156.0	0.2475	0.2368	0.2478	0.2451	0.2619	0.2697	0.2900	0.2988	0.3206	0.3260
159.0	0.3744	0.3662	0.3733	0.3766	0.3904	0.4025	0.4239	0.4361	0.4574	0.4665
162.0	0.5322	0.5212	0.5298	0.5340	0.5465	0.5575	0.5810	0.5968	0.6164	0.6255
165.0	0.6961	0.6823	0.6920	0.6947	0.7075	0.7142	0.7398	0.7505	0.7725	0.7769
168.0	0.8355	0.8202	0.8295	0.8292	0.8395	0.8437	0.8609	0.8740	0.8890	0.8924
171.0	0.9186	0.9044	0.8955	0.8947	0.8899	0.8955	0.9050	0.9208	0.9342	0.9333
174.0	0.9093	0.8775	0.8595	0.8543	0.8463	0.8426	0.8455	0.8653	0.8786	0.8594
177.0	0.8246	0.8166	0.7733	0.7415	0.7293	0.7282	0.7404	0.7560	0.7649	0.7639
180.0	0.8783	0.8452	0.8213	0.7762	0.7620	0.7870	0.7808	0.7978	0.8116	0.7982
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	18129	18129	18129	18129	18129	18129	18129	18129	18129	18129
3.0	16750	16734	17055	16707	16757	16776	16880	16943	17086	17166
6.0	13759	13745	14018	13696	13844	13891	14111	14170	14431	14554
9.0	9549	9492	9659	9393	9491	9525	9812	10004	10409	10661
12.0	6563	6521	6643	6471	6545	6565	6740	6863	7144	7332
15.0	4304	4242	4324	4179	4248	4293	4454	4577	4806	4985
18.0	2624	2555	2579	2492	2554	2616	2760	2872	3072	3229
21.0	1547	1525	1546	1465	1546	1560	1739	1748	1954	1977
24.0	919.2	921.2	945.6	891.3	939.3	942.0	1036	1063	1175	1214
27.0	610.3	597.5	609.5	587.1	609.6	616.3	659.7	694.9	770.7	819.9
30.0	421.5	413.1	420.1	404.1	417.4	426.4	459.8	485.5	536.3	573.9

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.9DEG
Operators: Bill Li
Test Date: 2013-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity: 58.7%
Test Distance: 2.500m [K=1.0000]
Remarks:

Checker: Bill Li

Assessor: Eric Duan

Photometric Data Table [cd]

33.0	306.6	299.6	303.3	292.6	303.6	310.8	331.6	350.9	387.1	413.4
36.0	228.6	226.2	227.0	218.8	226.1	231.5	247.0	259.8	284.4	303.7
39.0	175.1	171.9	176.5	168.0	174.0	177.2	189.9	197.0	216.4	228.5
42.0	135.1	133.8	138.2	131.5	135.0	137.1	148.1	151.5	164.2	173.3
45.0	105.4	104.3	106.6	102.7	104.7	105.5	114.4	116.3	126.4	132.6
48.0	82.62	79.93	79.92	77.46	80.90	81.66	84.23	87.25	95.98	98.16
51.0	63.10	61.32	61.08	59.02	62.30	62.50	63.97	65.95	71.85	73.80
54.0	47.03	47.13	46.58	45.49	46.66	47.05	48.03	49.10	52.28	54.10
57.0	35.61	35.75	37.23	35.85	35.18	35.27	38.81	38.20	38.93	39.84
60.0	27.13	26.46	28.92	26.57	26.48	26.10	29.25	28.85	29.40	29.45
63.0	19.74	19.31	20.36	18.87	19.10	18.68	20.47	20.82	21.20	21.66
66.0	12.56	12.21	11.99	10.81	11.87	11.64	12.20	12.25	13.54	13.75
69.0	9.814	8.694	7.556	7.274	8.567	8.253	7.674	7.900	9.280	9.451
72.0	11.37	7.748	5.422	5.229	9.587	7.755	5.504	5.617	7.981	7.386
75.0	12.00	8.045	3.714	3.591	10.60	8.998	3.796	3.867	9.817	9.421
78.0	3.328	3.076	2.671	2.545	2.975	2.859	2.640	2.699	3.570	3.535
81.0	2.084	2.043	1.826	1.715	1.746	1.735	1.710	1.759	1.932	1.979
84.0	1.168	1.119	1.017	0.9910	1.058	1.044	1.043	1.005	1.039	1.007
87.0	0.0086	0	0	0.0105	0.0358	0.0421	0.0919	0.0582	0.0824	0.0738
90.0	0	0	0	0	0	0	0	0	0	0
93.0	0	0	0	0	0	0	0	0	0	0
96.0	0	0	0	0	0	0	0	0	0	0
99.0	0	0	0	0	0	0	0	0	0	0
102.0	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
108.0	0	0	0	0	0	0	0	0	0	0
111.0	0	0	0	0	0	0	0	0	0	0
114.0	0	0	0	0	0	0	0	0	0	0
117.0	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
123.0	0	0	0	0	0	0	0	0	0	0
126.0	0	0	0	0	0	0	0	0	0	0
129.0	0	0	0	0	0	0	0	0	0	0
132.0	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
138.0	0.0078	0.0039	0	0	0	0	0	0	0	0
141.0	0.0245	0.0216	0.0053	0.0087	0.0049	0.0074	0.0010	0.0012	0	0
144.0	0.0489	0.0472	0.0241	0.0267	0.0226	0.0233	0.0159	0.0154	0.0086	0.0075
147.0	0.0883	0.0840	0.0533	0.0573	0.0506	0.0521	0.0425	0.0416	0.0303	0.0290
150.0	0.1468	0.1413	0.1021	0.1050	0.0967	0.0977	0.0866	0.0837	0.0703	0.0659
153.0	0.2302	0.2246	0.1837	0.1873	0.1768	0.1796	0.1624	0.1626	0.1413	0.1371
156.0	0.3429	0.3392	0.2653	0.2643	0.2539	0.2558	0.2361	0.2320	0.2102	0.2025
159.0	0.4823	0.4808	0.3962	0.3865	0.3823	0.3766	0.3586	0.3490	0.3246	0.3139
162.0	0.6416	0.6420	0.5602	0.5489	0.5449	0.5379	0.5166	0.5014	0.4770	0.4625
165.0	0.7941	0.7920	0.7431	0.7238	0.7176	0.7086	0.6887	0.6739	0.6529	0.6348
168.0	0.9033	0.8976	0.9052	0.8721	0.8612	0.8541	0.8391	0.8291	0.8072	0.7914
171.0	0.9302	0.9208	0.9715	0.9264	0.9047	0.9076	0.9047	0.8998	0.8906	0.8681
174.0	0.8401	0.8411	0.8967	0.8553	0.8266	0.8211	0.8286	0.8534	0.8548	0.8352
177.0	0.7254	0.7010	0.7486	0.7340	0.7035	0.7013	0.7298	0.7252	0.7338	0.7396
180.0	0.7933	0.7624	0.8901	0.8440	0.8290	0.7784	0.7655	0.7863	0.7852	0.7962
G/C	300.0	315.0	330.0	345.0						
0.0	18129	18129	18129	18129						
3.0	17331	17401	17532	17561						
6.0	14831	14961	15206	15231						
9.0	11080	11269	11593	11679						
12.0	7634	7815	8090	8149						
15.0	5249	5402	5610	5656						
18.0	3450	3575	3744	3772						
21.0	2200	2229	2377	2417						
24.0	1345	1394	1523	1541						
27.0	899.4	928.1	1025	1029						
30.0	631.8	669.9	719.6	734.7						
33.0	452.4	480.9	517.3	527.3						
36.0	331.6	353.2	378.1	385.4						
39.0	250.4	264.1	282.9	288.6						
42.0	191.1	198.5	214.5	217.2						
45.0	147.2	151.1	161.7	164.4						
48.0	107.0	110.5	121.0	121.0						
51.0	77.83	80.87	87.63	88.32						
54.0	56.45	57.85	61.75	63.05						
57.0	42.63	42.85	44.64	45.88						
60.0	32.85	32.43	33.94	34.20						
63.0	23.59	24.11	25.89	25.88						
66.0	14.64	14.78	20.47	19.46						

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Bill Li
Test Date:2013-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity:58.7%
Test Distance:2.500m [K=1.0000]
Remarks:

Checker: Bill Li

Assessor: Eric Duan

Photometric Data Table [cd]

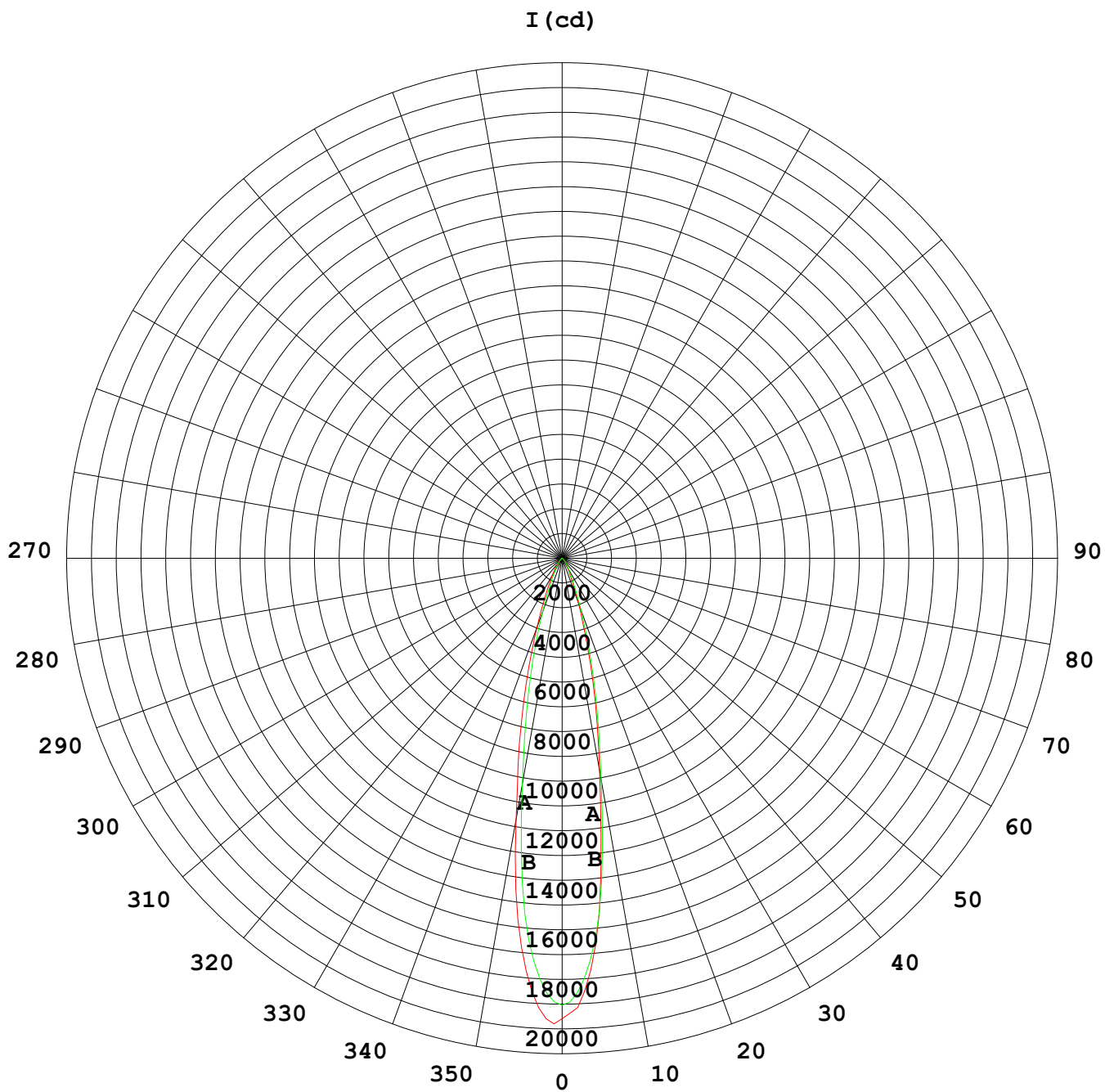
69.0	8.840	9.136	20.88	18.16
72.0	6.099	6.302	17.42	14.72
75.0	4.358	4.525	13.55	11.33
78.0	3.034	3.143	5.296	4.742
81.0	2.003	2.032	2.221	2.187
84.0	0.9734	0.9766	1.061	1.080
87.0	0.0868	0.1050	0.1413	0.1308
90.0	0	0	0	0
93.0	0	0	0	0
96.0	0	0	0	0
99.0	0	0	0	0
102.0	0	0	0	0
105.0	0	0	0	0
108.0	0	0	0	0
111.0	0	0	0	0
114.0	0	0	0	0
117.0	0	0	0	0
120.0	0	0	0	0
123.0	0	0	0	0
126.0	0	0	0	0
129.0	0	0	0	0
132.0	0	0	0	0
135.0	0	0	0	0
138.0	0	0	0	0
141.0	0	0	0	0
144.0	0.0001	0.0019	0.0000	0
147.0	0.0210	0.0215	0.0144	0.0144
150.0	0.0554	0.0553	0.0457	0.0455
153.0	0.1192	0.1192	0.1040	0.1081
156.0	0.1839	0.1826	0.1683	0.1700
159.0	0.2905	0.2875	0.2736	0.2753
162.0	0.4345	0.4284	0.4176	0.4144
165.0	0.6070	0.5986	0.5886	0.5873
168.0	0.7715	0.7571	0.7439	0.7508
171.0	0.8597	0.8427	0.8319	0.8369
174.0	0.8266	0.8256	0.8044	0.8100
177.0	0.7164	0.7322	0.7146	0.7225
180.0	0.8129	0.7979	0.7978	0.7653

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Bill Li
Test Date:2013-11-08

Checker: Bill Li

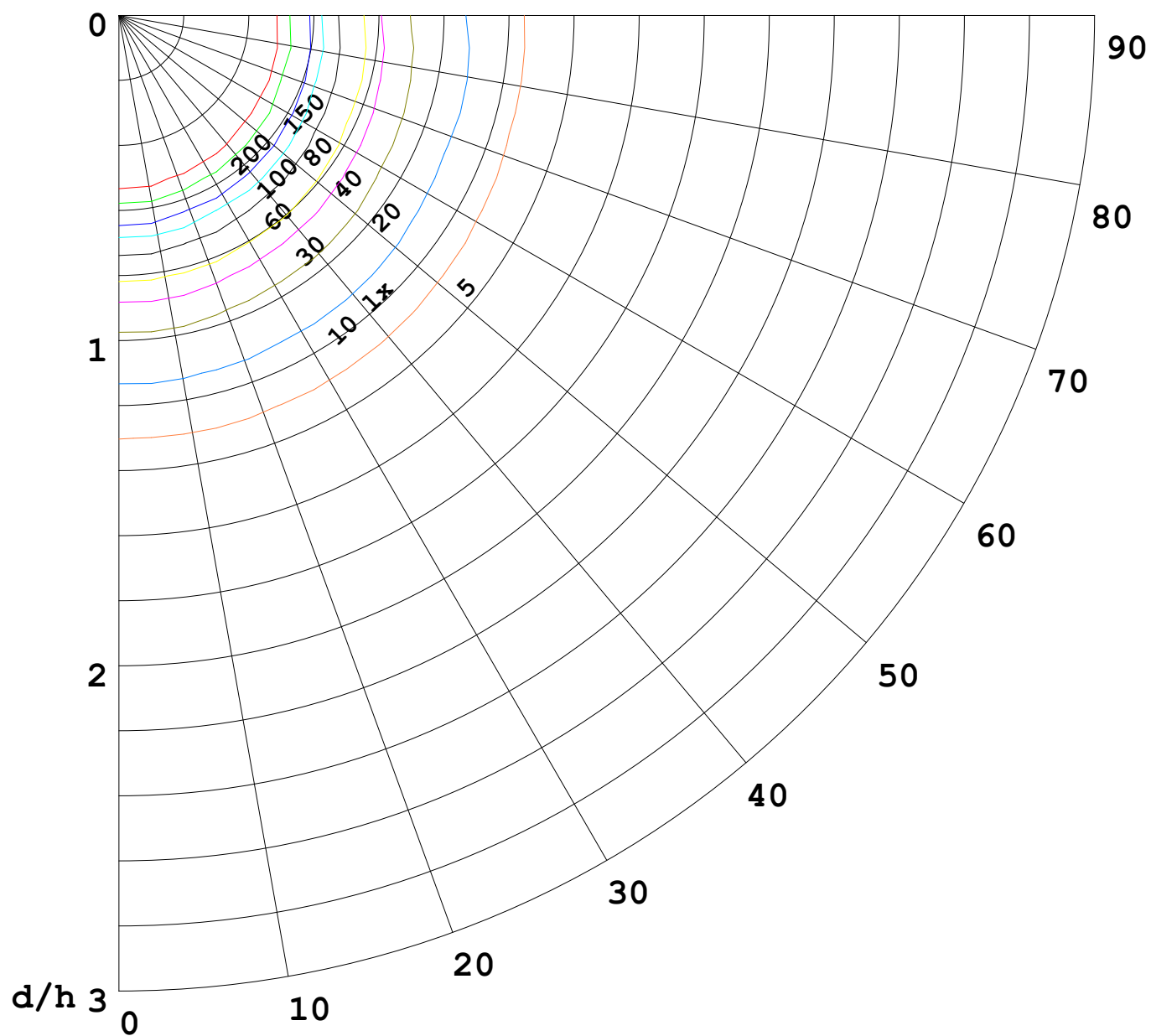
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity:58.7%
Test Distance:2.500m [K=1.0000]
Remarks:

Assessor: Eric Duan



1000 lm

$K = 1$



F = 3565 lm
K = 0.7
Hcc = 0.0 m
Hfc = 0.0 m
Eave = 100 lx

Pcc
70
50

Pw
50
30

Pfc
30
20

