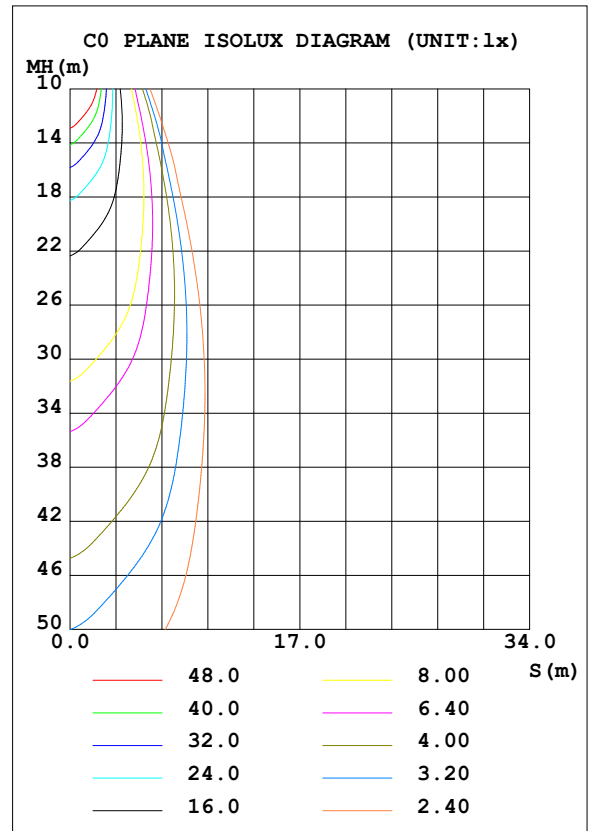
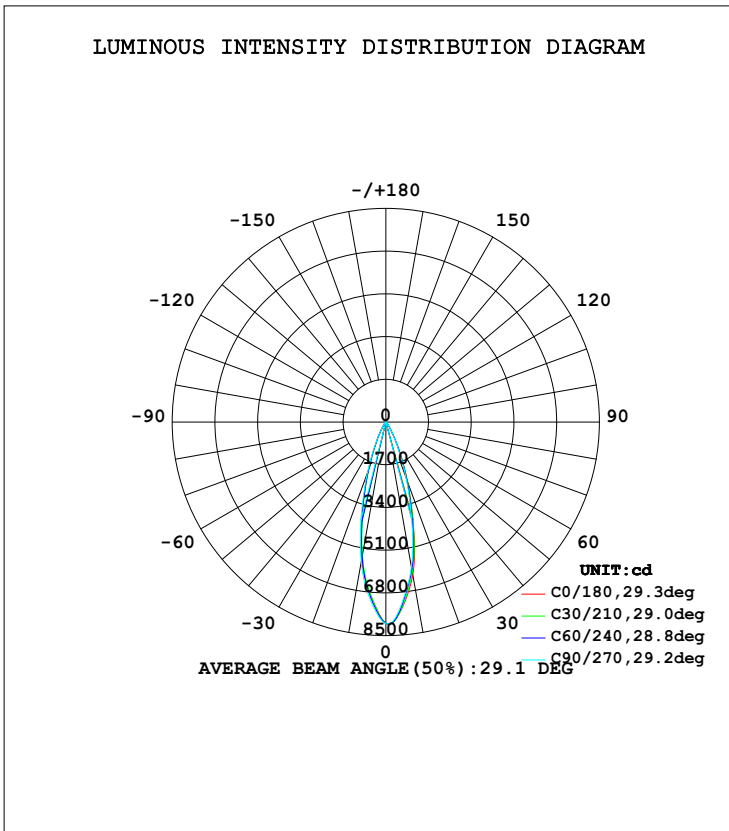


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:264.8V I:0.6830A P:98.20W PF:0.5430 Lamp Flux:2509.32x1 lm		
NAME: Hercules	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: CLF Lighting	SUR.:φ0.16	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 25.55 lm/W
MODEL	HYP005AUV	I <sub>max</sub> (cd)	8067	S/MH (C0/180)	0.52	
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	0.50	
RATED VOLTAGE (V)	95-265	TOTAL FLUX (lm)	2509.3	η UP, DN (C0-180)	0.0, 48.7	
NOMINAL FLUX (lm)	2509.32	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.3	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	265	η down (%)	100.0	CIBSE SHR MAX	0.50	



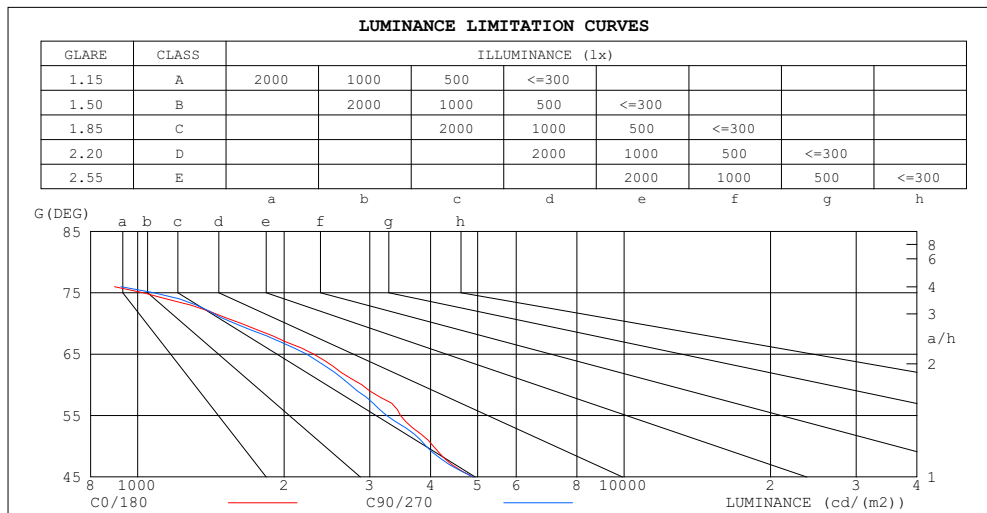
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.9DEG  
 Operators: Bill  
 Test Date: 2015-03-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity: 52.5%  
 Test Distance: 2.500m [K=0.9892]  
 Remarks:

**ZONAL FLUX DIAGRAM  
 AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	5552	5427	5659	6012	6182	5995	5866	5762	0- 10	642.2	642.2	25.6,25.6
20	2039	2042	2141	2378	2515	2458	2331	2207	10- 20	1064	1707	68,68
30	420.6	422.6	454.7	530.5	564.0	538.9	522.2	481.3	20- 30	534.2	2241	89.3,89.3
40	103.6	104.7	106.4	118.7	123.3	118.5	116.9	110.5	30- 40	145.4	2386	95.1,95.1
50	52.44	51.33	50.67	55.52	57.25	54.27	53.14	53.67	40- 50	58.73	2445	97.4,97.4
60	29.06	28.76	27.49	31.81	33.10	30.43	29.51	29.07	50- 60	36.87	2482	98.9,98.9
70	11.24	11.01	10.90	12.80	14.01	12.97	13.07	11.86	60- 70	20.40	2502	99.7,99.7
80	1.543	1.534	1.643	2.088	2.116	2.018	1.963	1.535	70- 80	6.562	2509	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.4739	2509	100,100
100	0	0	0	0	0	0	0	0	90-100	0	2509	100,100
110	0	0	0	0	0	0	0	0	100-110	0	2509	100,100
120	0	0	0	0	0	0	0	0	110-120	0	2509	100,100
130	0	0	0	0	0	0	0	0	120-130	0	2509	100,100
140	0	0	0	0	0	0	0	0	130-140	0	2509	100,100
150	0	0	0	0	0	0	0	0	140-150	0	2509	100,100
160	0	0	0	0	0	0	0	0	150-160	0	2509	100,100
170	0.0021	0.0186	0.0319	0.0086	0	0.0006	0.0058	0.0137	160-170	0.0008	2509	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0009	2509	100,100
DEG	LUMINOUS INTENSITY:cd Less than 25% Percent = 2.4 %									UNIT:lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	117	132
80	442	470
75	1027	1079
70	1634	1585
65	2299	2223
60	2891	2734
55	3471	3252
50	4057	3920
45	4895	4893

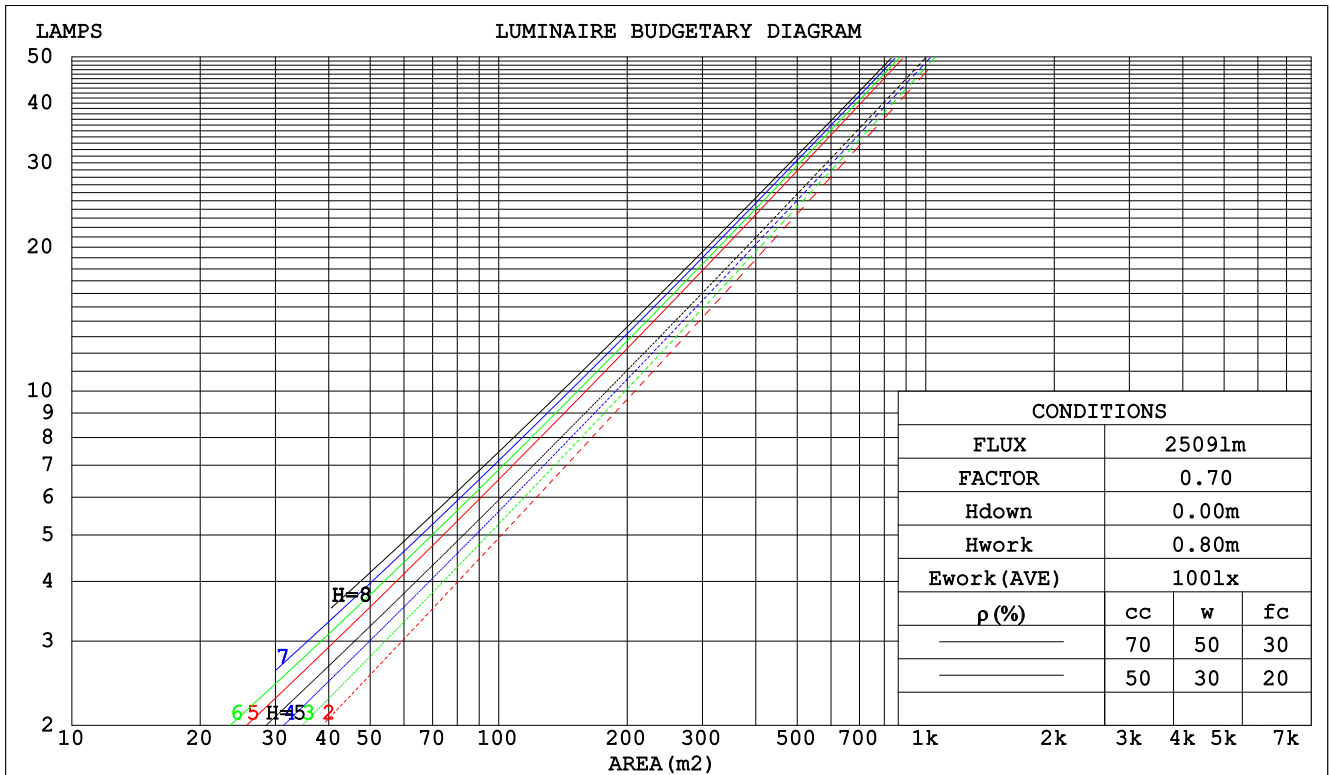
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Bill  
 Test Date:2015-03-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity:52.5%  
 Test Distance:2.500m [K=0.9892]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:264.8V I:0.6830A P:98.20W PF:0.5430 Lamp Flux:2509.32x1 lm		
NAME: Hercules	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: CLF Lighting	SUR.:φ0.16	Shielding Angle:

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	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.00	1.04	1.01	.99	1.01	.99	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.97	.93	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.91	.88	.95	.90	.87	.93	.89	.86	.91	.88	.85	.89	.86	.84	.83
5.0	.91	.87	.83	.90	.86	.83	.89	.85	.82	.87	.84	.81	.86	.83	.81	.80
6.0	.88	.83	.79	.87	.82	.79	.85	.81	.79	.84	.81	.78	.83	.80	.78	.76
7.0	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.75	.73
8.0	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.78	.74	.72	.71
9.0	.78	.73	.70	.77	.73	.70	.77	.73	.70	.76	.72	.69	.75	.72	.69	.68
10.0	.75	.71	.68	.75	.70	.67	.74	.70	.67	.73	.70	.67	.73	.69	.67	.66



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Bill  
 Test Date:2015-03-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity:52.5%  
 Test Distance:2.500m [K=0.9892]  
 Remarks:

WEC AND CCEC

Test:U:264.8V I:0.6830A P:98.20W PF:0.5430 Lamp Flux:2509.32x1 lm						
NAME: HERCULES			TYPE:LED		WEIGHT:	
SPEC.:			DIM.:		SERIAL No.:1	
MFR.: CLF Lighting			SUR.:φ0.16		Shielding Angle:	

ρ <sub>CC</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fC</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.153	.087	.028	.146	.083	.027	.134	.077	.025	.122	.071	.023	.112	.065	.021	
2.0	.144	.079	.024	.138	.076	.023	.128	.071	.022	.118	.066	.021	.109	.062	.020	
3.0	.135	.072	.021	.130	.070	.021	.121	.066	.020	.113	.062	.019	.106	.059	.018	
4.0	.127	.066	.019	.123	.064	.019	.116	.061	.018	.109	.058	.018	.102	.056	.017	
5.0	.120	.061	.018	.117	.060	.017	.110	.057	.017	.104	.055	.016	.099	.053	.016	
6.0	.114	.057	.016	.111	.056	.016	.105	.054	.016	.100	.052	.015	.095	.050	.015	
7.0	.108	.053	.015	.106	.053	.015	.101	.051	.015	.096	.049	.014	.092	.048	.014	
8.0	.103	.050	.014	.101	.050	.014	.097	.048	.014	.093	.047	.014	.089	.046	.013	
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.089	.045	.013	.086	.044	.013	
10.0	.094	.045	.013	.093	.045	.012	.089	.044	.012	.086	.043	.012	.083	.042	.012	

ρ <sub>CC</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fC</sub>	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	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.093	.119	.098	.081	.081	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.127	.098	.077	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.019	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Bill  
 Test Date:2015-03-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity:52.5%  
 Test Distance:2.500m [K=0.9892]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:264.8V I:0.6830A P:98.20W PF:0.5430 Lamp Flux:2509.32x1 lm										
NAME: HERCULES					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:1		
MFR.: CLF Lighting					SUR.:φ0.16			Shielding Angle:		
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	10.2	10.9	10.4	11.1	11.2	10.2	10.9	10.4	11.1	11.2
3H	10.5	11.2	10.8	11.4	11.6	10.5	11.2	10.8	11.4	11.6
4H	10.6	11.2	10.8	11.5	11.7	10.6	11.2	10.8	11.4	11.7
6H	10.5	11.2	10.8	11.4	11.6	10.5	11.2	10.8	11.4	11.6
8H	10.5	11.1	10.8	11.3	11.6	10.5	11.1	10.8	11.3	11.6
12H	10.4	11.0	10.8	11.3	11.6	10.4	11.0	10.8	11.3	11.6
4H 2H	10.3	11.0	10.6	11.2	11.4	10.3	11.0	10.6	11.2	11.4
3H	10.8	11.4	11.1	11.6	11.9	10.8	11.3	11.1	11.6	11.9
4H	10.8	11.4	11.2	11.7	12.0	10.8	11.4	11.2	11.7	12.0
6H	10.8	11.3	11.2	11.6	11.9	10.8	11.3	11.2	11.6	11.9
8H	10.7	11.2	11.1	11.5	11.9	10.7	11.2	11.1	11.5	11.9
12H	10.7	11.1	11.1	11.5	11.8	10.7	11.1	11.1	11.5	11.8
8H 4H	10.8	11.2	11.1	11.5	11.9	10.8	11.2	11.1	11.5	11.9
6H	10.7	11.1	11.1	11.5	11.9	10.7	11.1	11.1	11.5	11.9
8H	10.7	11.0	11.1	11.4	11.8	10.7	11.0	11.1	11.4	11.8
12H	10.6	10.9	11.1	11.3	11.8	10.6	10.9	11.1	11.3	11.8
12H 4H	10.7	11.1	11.1	11.5	11.9	10.7	11.1	11.1	11.5	11.9
6H	10.7	11.0	11.1	11.4	11.8	10.7	11.0	11.1	11.4	11.8
8H	10.6	10.9	11.1	11.3	11.8	10.6	10.9	11.1	11.3	11.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.3					+ 1.1 / - 1.4				
1.5H	+ 1.6 / - 0.8					+ 1.8 / - 0.8				
2.0H	+ 1.3 / - 1.4					+ 1.3 / - 1.2				

CIE Pub.117 Corrected 2509 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.2)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Bill  
 Test Date:2015-03-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity:52.5%  
 Test Distance:2.500m [K=0.9892]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:264.8V I:0.6830A P:98.20W PF:0.5430 Lamp Flux:2509.32x1 lm		
NAME: HERCULES	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: CLF Lighting	SUR.:φ0.16	Shielding Angle:

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	89	82	79	88	82	79	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	95	91	99	94	91	98	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	105	102	99	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
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				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Bill  
 Test Date:2015-03-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity:52.5%  
 Test Distance:2.500m [K=0.9892]  
 Remarks:

ISOCANDELA DIAGRAM

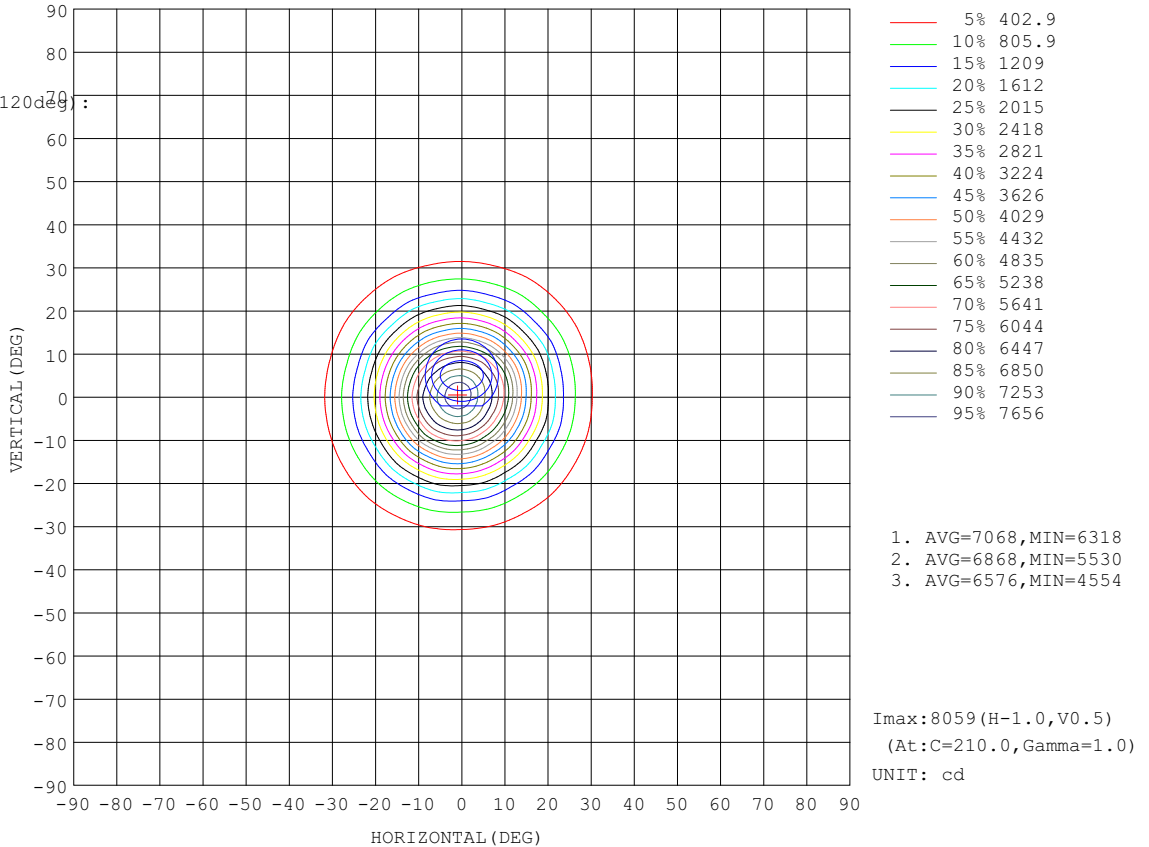
Test:U:264.8V I:0.6830A P:98.20W PF:0.5430 Lamp Flux:2509.32x1 lm		
NAME: HERCULES	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: CLF Lighting	SUR.:φ0.16	Shielding Angle:

Conical surface Flux(90deg):

2420 lm  
 %lum = 96.4%  
 %lamp = 96.4%

Conical surface Flux(120deg):

2481.9 lm  
 %lum = 98.9%  
 %lamp = 98.9%

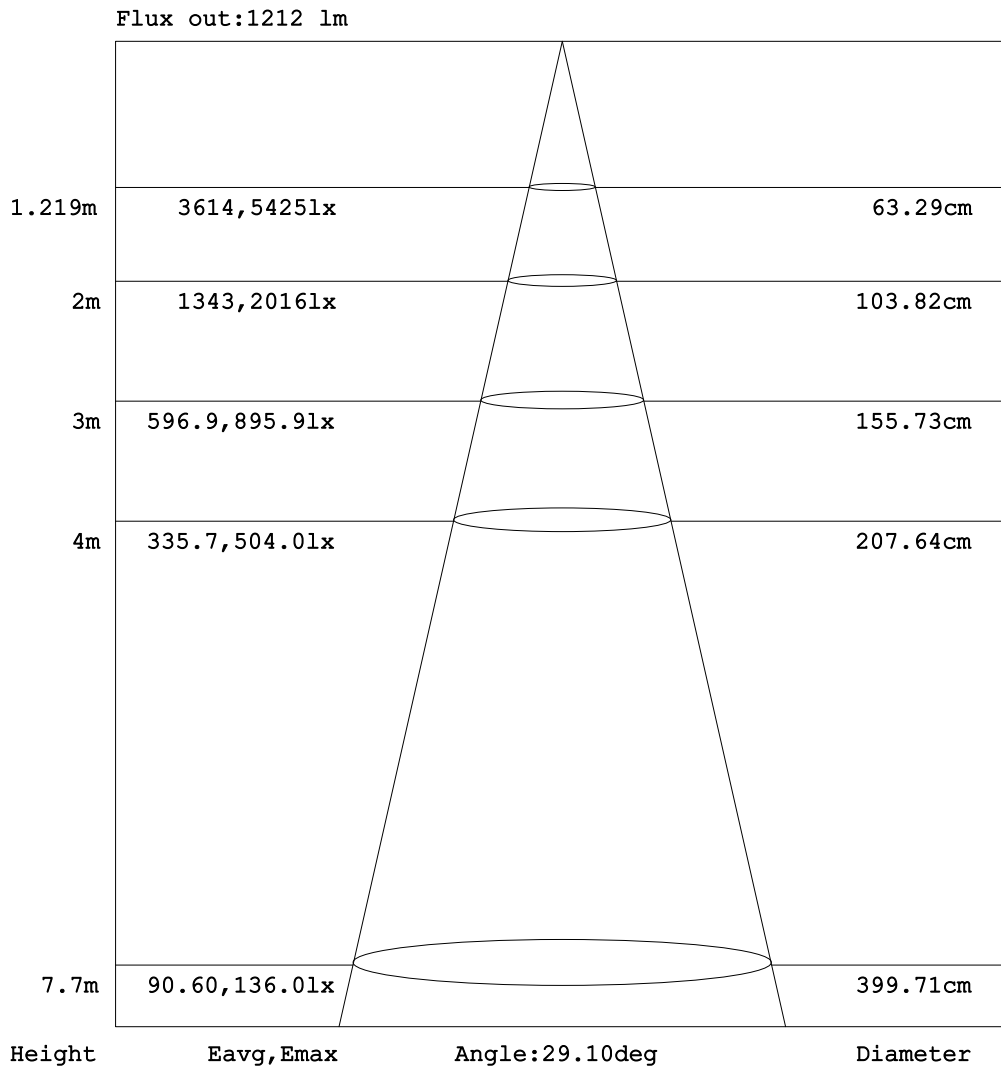


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Bill  
 Test Date:2015-03-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity:52.5%  
 Test Distance:2.500m [K=0.9892]  
 Remarks:

**AAI Figure**

Test:U:264.8V I:0.6830A P:98.20W PF:0.5430 Lamp Flux:2509.32x1 lm		
NAME: HERCULES	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: CLF Lighting	SUR.:φ0.16	Shielding Angle:



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

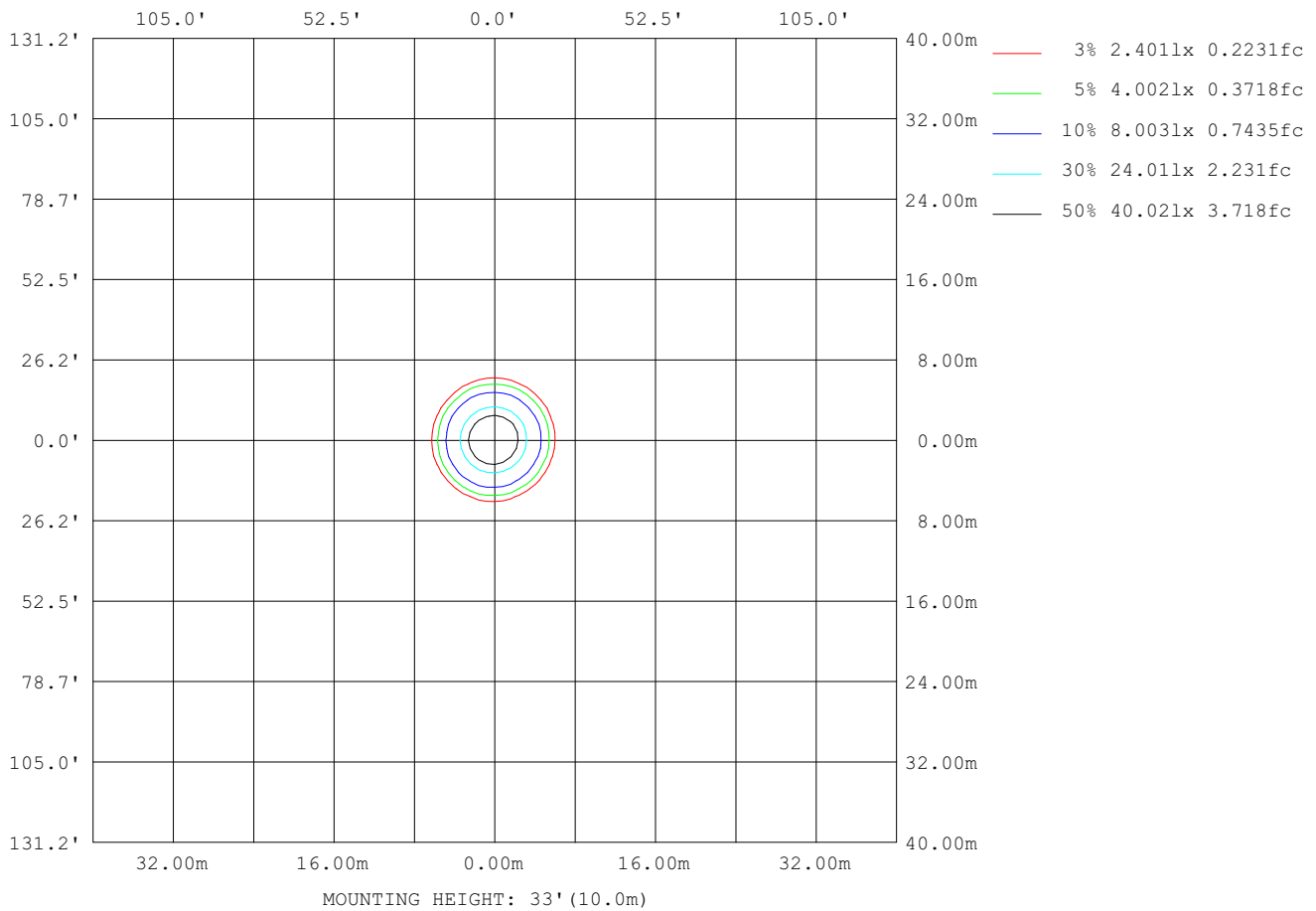
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Bill  
 Test Date:2015-03-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity:52.5%  
 Test Distance:2.500m [K=0.9892]  
 Remarks:



ISOLUX DIAGRAM

Test:U:264.8V I:0.6830A P:98.20W PF:0.5430 Lamp Flux:2509.32x1 lm		
NAME: HERCULES	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: CLF Lighting	SUR.:φ0.16	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Bill  
 Test Date:2015-03-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity:52.5%  
 Test Distance:2.500m [K=0.9892]  
 Remarks:

LED Avg.L Report

Test:U:264.8V I:0.6830A P:98.20W PF:0.5430 Lamp Flux:2509.32x1 lm		
NAME: HERCULES	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: CLF Lighting	SUR.:φ0.16	Shielding Angle:

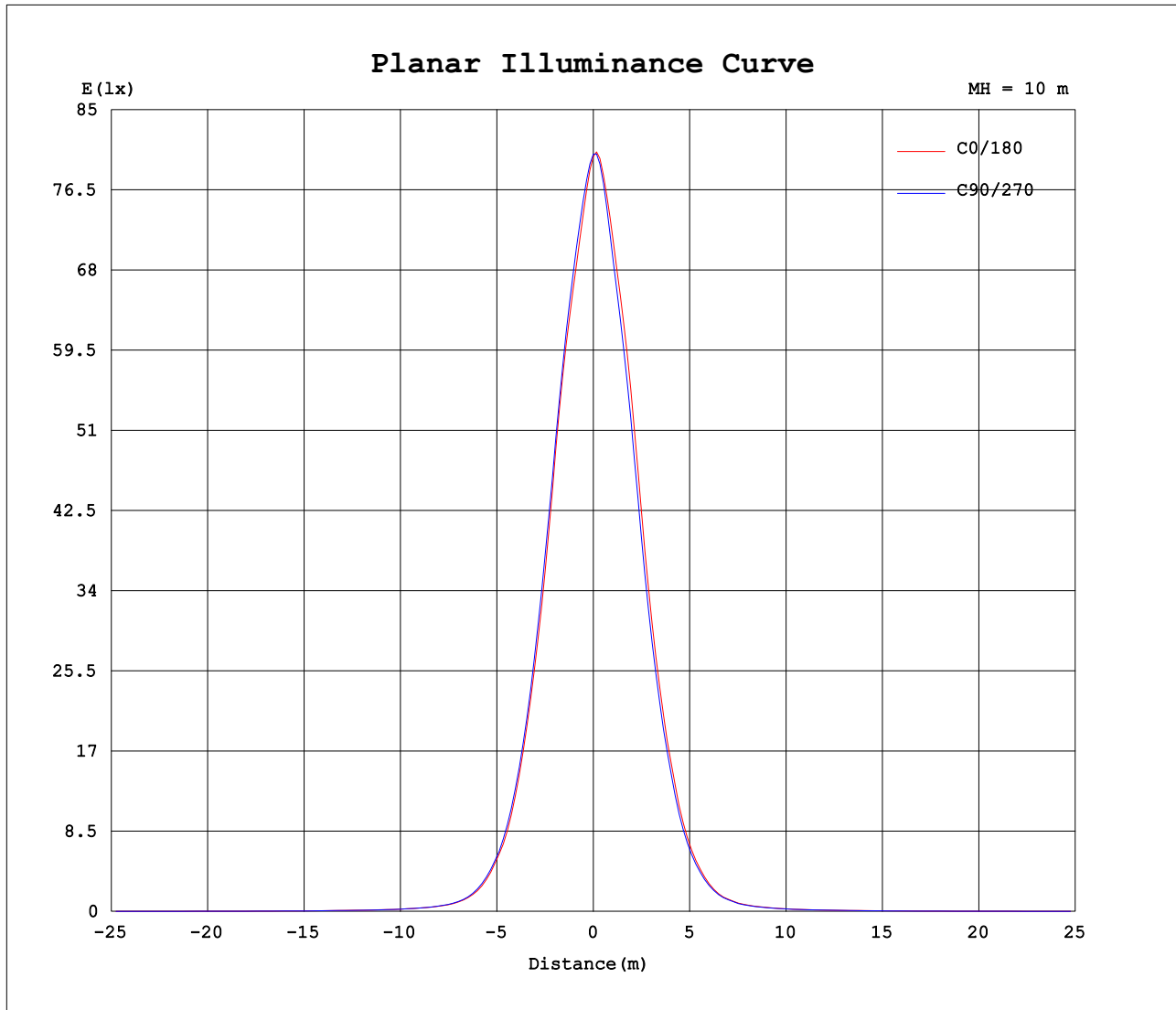
AvgL	cd/m2
L_0~180(65)av	2490
L_0~180(75)av	1162
L_0~180(85)av	129
L_90~270(65)av	2353
L_90~270(75)av	1125
L_90~270(85)av	129
L_45(65)av	2428
L_45(75)av	1123
L_45(85)av	126

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Bill  
 Test Date:2015-03-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity:52.5%  
 Test Distance:2.500m [K=0.9892]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.9DEG  
 Operators: Bill  
 Test Date: 2015-03-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity: 52.5%  
 Test Distance: 2.500m [K=0.9892]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:264.8V I:0.6830A P:98.20W PF:0.5430 Lamp Flux:2509.32x1 lm		
NAME: HERCULES	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: CLF Lighting	SUR.:φ0.16	Shielding Angle:

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	8003	8017	8015	8025	8023	8029	8029	8031	8032	8028	8029	8023	8003	8017	8015	8025	8023	8029	8029
5	6928	6935	6928	6969	7008	7080	7110	7178	7219	7293	7335	7396	7434	7410	7410	7359	7334	7275	7250
10	5552	5474	5399	5427	5461	5567	5659	5785	5892	6012	6056	6122	6182	6105	6070	5995	5961	5896	5866
15	3590	3558	3524	3555	3557	3653	3771	3873	3920	4069	4111	4187	4246	4209	4197	4128	4073	3980	3966
20	2039	2063	1981	2042	2026	2115	2141	2258	2298	2378	2405	2464	2515	2501	2500	2458	2431	2359	2331
25	962	986	939	976	959	1031	1033	1122	1134	1195	1183	1241	1263	1218	1264	1202	1237	1160	1167
30	421	421	409	423	418	445	455	490	499	530	532	548	564	547	556	539	547	523	522
35	182	190	180	181	178	195	190	212	204	226	220	234	236	222	235	221	233	216	226
40	104	106	103	105	102	106	106	112	112	119	119	123	123	120	122	118	120	115	117
45	69.6	69.8	68.2	68.5	68.0	69.5	69.6	72.7	73.6	76.1	77.2	78.6	78.8	77.8	77.8	77.1	77.8	74.9	74.9
50	52.4	52.8	51.0	51.3	50.8	50.8	50.7	52.0	54.8	55.5	54.9	56.3	57.2	55.7	54.4	54.3	55.0	53.6	53.1
55	40.0	41.1	37.8	39.1	40.1	38.7	37.5	39.6	42.5	42.9	41.0	42.8	43.6	42.4	41.1	41.2	41.9	41.3	39.7
60	29.1	29.5	27.5	28.8	28.4	27.7	27.5	28.9	29.9	31.8	30.4	31.7	33.1	31.2	30.6	30.4	31.3	31.2	29.5
65	19.5	19.5	19.0	19.3	19.1	19.2	18.9	20.4	21.0	21.4	21.6	22.1	22.8	22.2	21.5	21.5	21.8	21.2	21.1
70	11.2	11.1	11.0	11.0	10.9	11.6	10.9	12.1	12.3	12.8	13.3	13.5	14.0	13.7	13.0	13.0	13.4	12.4	13.1
75	5.35	5.37	5.14	5.21	5.26	5.67	5.62	5.96	5.90	6.17	6.33	6.53	6.75	6.63	6.53	6.49	6.39	6.10	6.09
80	1.54	1.54	1.39	1.53	1.58	1.64	1.64	1.69	1.79	2.09	1.97	2.21	2.12	1.96	2.17	2.02	2.10	2.16	1.96
85	0.20	0.20	0.19	0.21	0.21	0.23	0.23	0.24	0.23	0.23	0.21	0.23	0.25	0.24	0.26	0.24	0.23	0.22	0.22
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	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
155	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
160	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
165	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.03	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01
175	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00
180	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:24.9DEG  
 Operators:Bill  
 Test Date:2015-03-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity:52.5%  
 Test Distance:2.500m [K=0.9892]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:264.8V I:0.6830A P:98.20W PF:0.5430 Lamp Flux:2509.32x1 lm		
NAME: HERCULES	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: CLF Lighting	SUR.:φ0.16	Shielding Angle:

Table--2

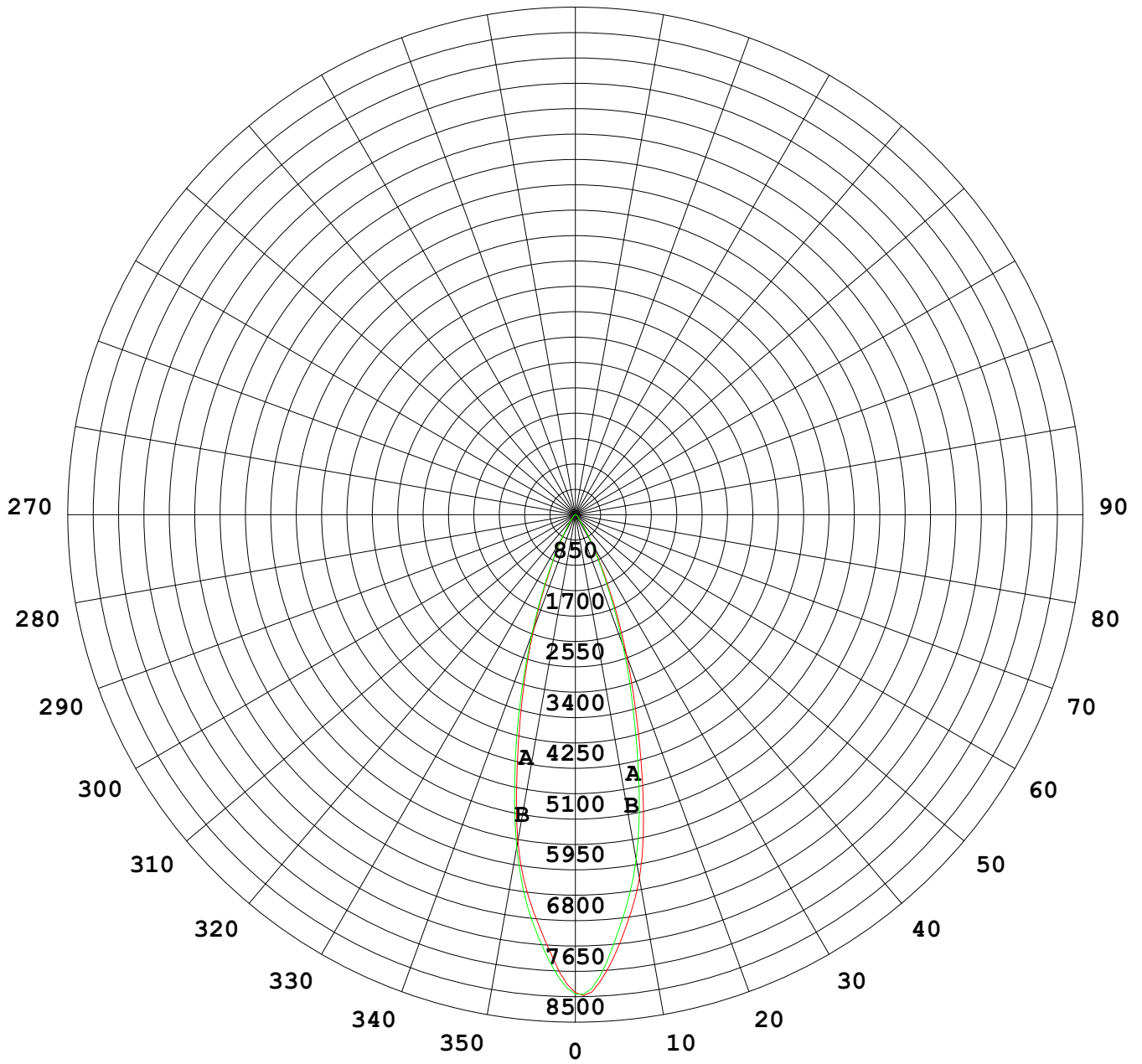
UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	8031	8032	8028	8029	8023														
5	7189	7152	7085	7043	6976														
10	5823	5828	5762	5735	5653														
15	3909	3911	3846	3808	3708														
20	2282	2270	2207	2187	2100														
25	1109	1127	1052	1077	995														
30	501	506	481	471	445														
35	210	220	204	209	190														
40	113	114	111	112	107														
45	73.4	74.0	72.7	71.3	70.6														
50	53.5	55.9	53.7	52.6	52.6														
55	40.6	42.7	40.8	39.4	40.2														
60	30.0	30.8	29.1	29.0	28.4														
65	20.8	21.6	20.4	19.8	19.4														
70	12.1	12.4	11.9	11.0	10.9														
75	5.79	5.71	5.52	5.43	5.32														
80	1.80	1.75	1.54	1.60	1.50														
85	0.20	0.20	0.20	0.22	0.21														
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	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.01	0.01	0.01	0.01														
175	0.00	0.01	0.02	0.02	0.01														
180	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Bill  
 Test Date:2015-03-18

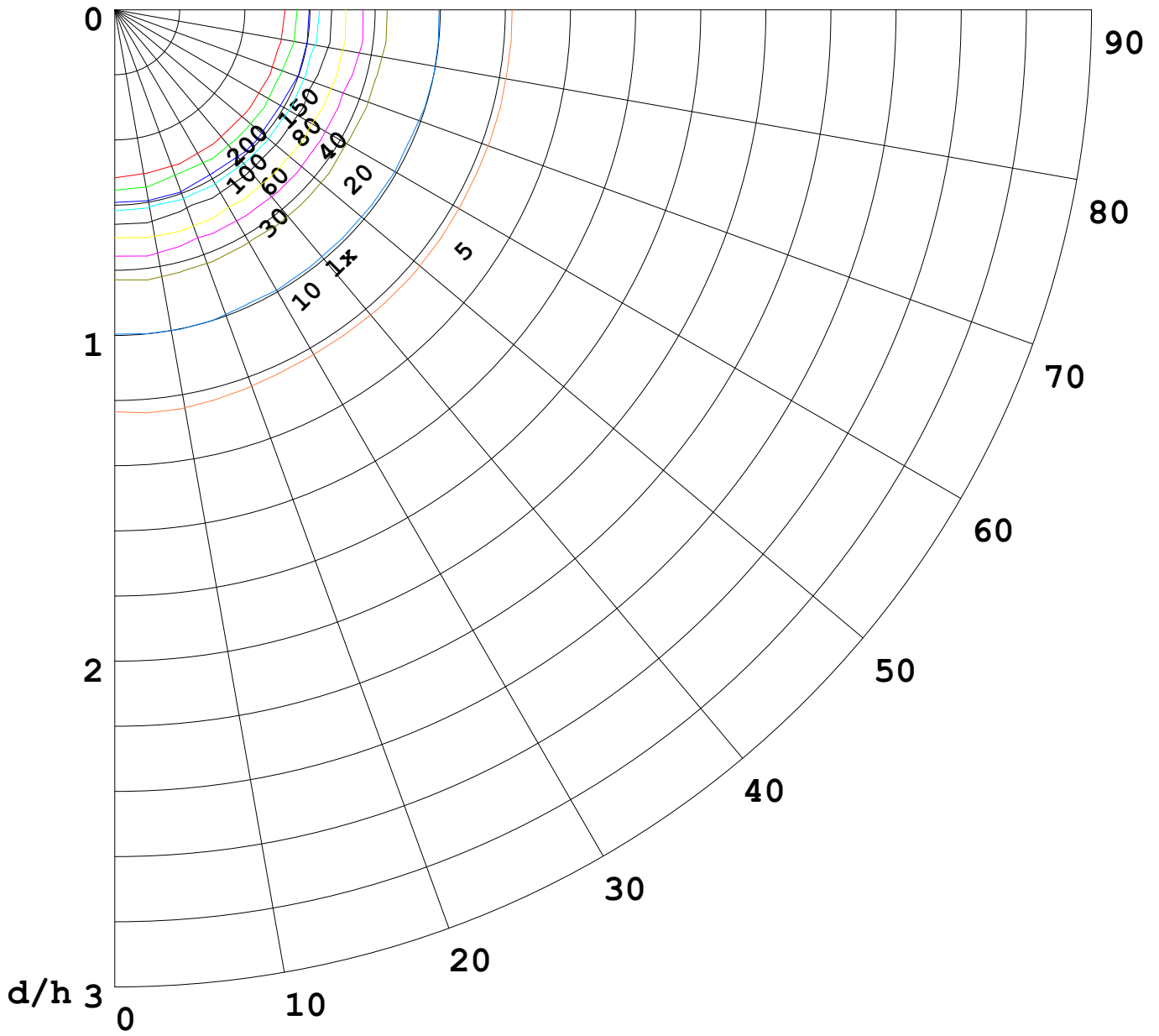
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.294  
 Humidity:52.5%  
 Test Distance:2.500m [K=0.9892]  
 Remarks:

I (cd)



1000 lm

$K = 1$



F = 2509 lm  
 K = 0.7  
 Hcc = 0.8 m  
 Hfc = 0.0 m  
 Eave = 100 lx

	Pcc	Pw	Pfc
—————	70	50	30
—————	50	30	20

