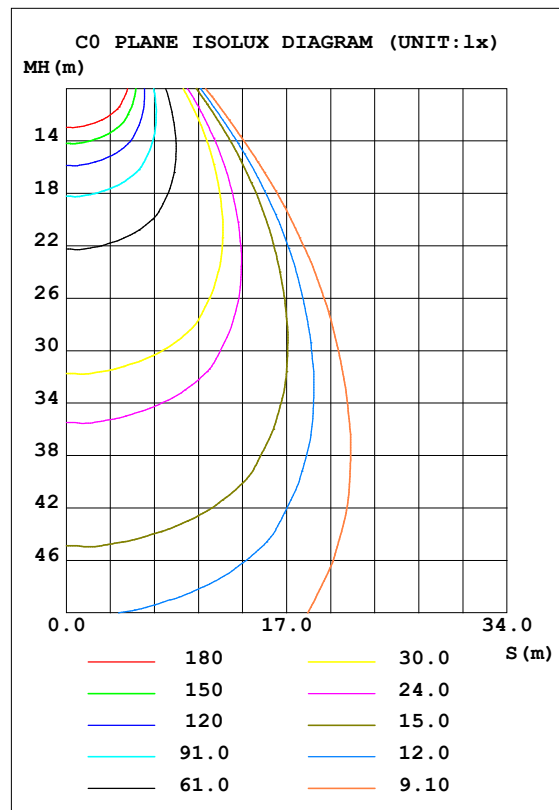
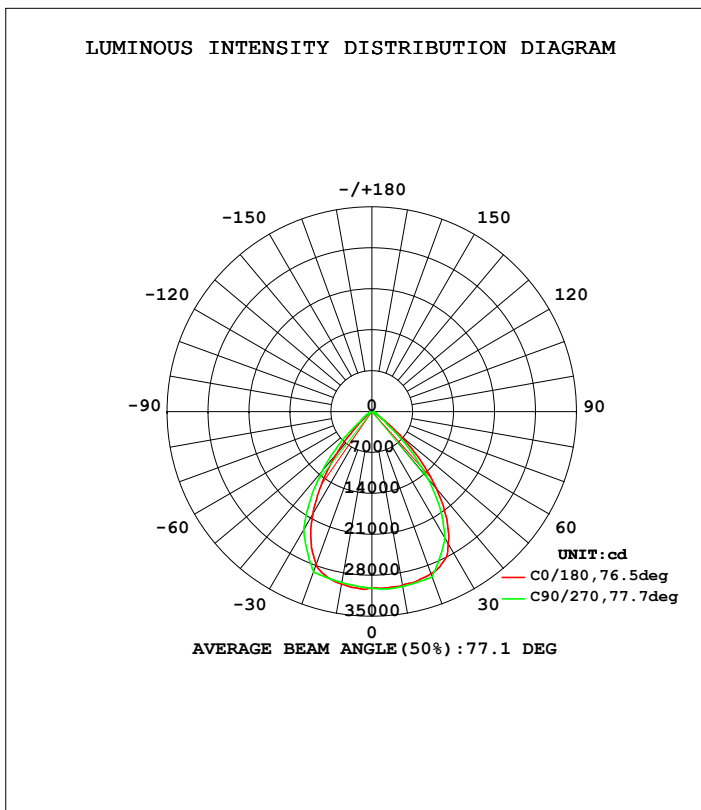


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.5V I:2.239A P:484.9W PF:0.9820 Lamp Flux:44363x1 lm		
NAME: H500	TYPE:CREE	WEIGHT:12
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	H500-500W	Imax(cd)	30735	S/MH(C0/180)	1.02
NOMINAL POWER(W)	492	LOR(%)	100.0	S/MH(C90/270)	1.10
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	44363	η UP, DN(C0-180)	0.0, 48.0
NOMINAL FLUX(lm)	44363	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 52.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220.5	η down(%)	100.0	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 28DEG
 Operators:
 Test Date: 2013-07-13

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity: 90.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks: LED:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum
5	3027	3008	2995	3009	3023	3042	3043	3065	0- 5	723.5	723.5	1.63
10	2997	2953	2970	2986	3020	3037	3033	3051	5- 10	2159	2882	6.5
15	2935	2856	2944	2952	2999	3017	3020	2999	10- 15	3545	6427	14.5
20	2793	2723	2918	2894	2954	2987	3006	2863	15- 20	4834	11261	25.4
25	2462	2505	2627	2781	2857	2913	2754	2669	20- 25	5873	17134	38.6
30	2022	2136	2336	2500	2614	2647	2501	2277	25- 30	6409	23543	53.1
35	1488	1625	1839	2058	2237	2226	2041	1760	30- 35	6318	29861	67.3
40	942.4	1079	1317	1565	1713	1724	1486	1220	35- 40	5502	35363	79.7
45	432.3	569.4	792.4	1011	1168	1155	919.4	664.6	40- 45	4129	39492	89
50	152.8	294.2	267.5	600.4	629.6	697.2	352.6	356.2	45- 50	2506	41998	94.7
55	78.36	131.3	169.5	280.2	219.8	329.4	215.9	159.4	50- 55	1171	43169	97.3
60	53.31	57.39	71.45	80.73	94.13	90.56	79.16	66.78	55- 60	549.8	43719	98.5
65	30.16	35.01	50.15	53.01	60.13	58.43	55.38	41.39	60- 65	301.7	44021	99.2
70	12.11	19.16	28.85	31.05	37.21	34.37	31.59	22.43	65- 70	189.3	44210	99.7
75	3.488	9.974	9.466	15.73	18.07	17.04	9.936	10.99	70- 75	97.06	44307	99.9
80	1.159	2.926	5.457	3.566	5.071	3.283	5.253	2.231	75- 80	34.99	44342	100
85	0.1702	2.017	3.369	2.344	1.754	1.677	2.692	1.155	80- 85	14.56	44357	100
90	0.1524	1.159	1.282	1.173	0.1261	0.1272	0.1305	0.1252	85- 90	6.481	44363	100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY: *10cd								UNIT: lm			

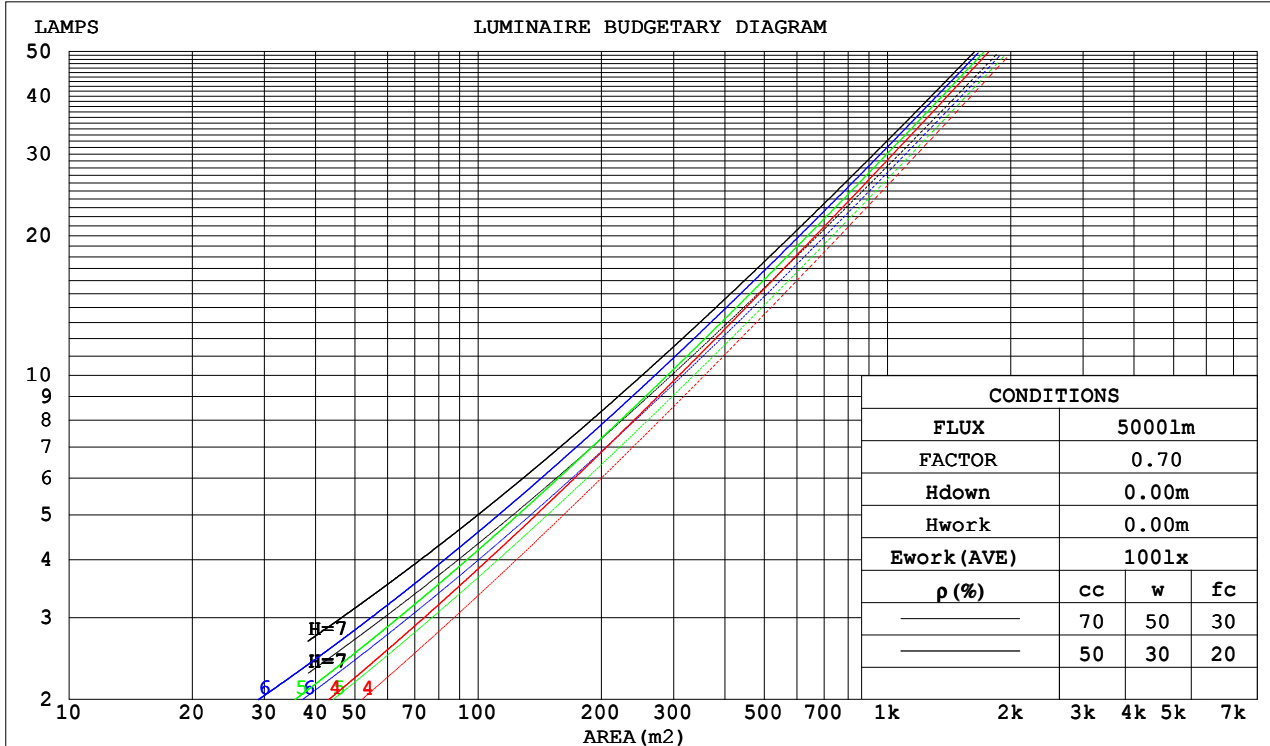
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 28DEG
Operators:
Test Date: 2013-07-13

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity: 90.0%
Test Distance: 8.000m [K=1.0000]
Remarks: LED:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.5V I:2.239A P:484.9W PF:0.9820 Lamp Flux:44363x1 lm		
NAME: H500	TYPE:CREE	WEIGHT:12
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pf _c	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	1.10	1.07	1.04	1.07	1.05	1.03	1.03	1.01	.99	.00	.98	.96	.96	.95	.94	.92
2.0	1.00	.96	.92	.99	.95	.91	.95	.92	.89	.92	.90	.87	.90	.87	.85	.83
3.0	.92	.86	.82	.91	.86	.81	.88	.84	.80	.86	.82	.79	.83	.80	.77	.76
4.0	.85	.78	.74	.84	.78	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
5.0	.78	.71	.67	.77	.71	.66	.75	.70	.66	.74	.69	.65	.72	.68	.64	.63
6.0	.72	.65	.60	.71	.65	.60	.70	.64	.60	.68	.63	.59	.67	.62	.59	.57
7.0	.67	.60	.55	.66	.60	.55	.65	.59	.55	.64	.58	.54	.62	.58	.54	.53
8.0	.62	.55	.51	.62	.55	.51	.60	.55	.50	.59	.54	.50	.58	.53	.50	.48
9.0	.58	.51	.47	.57	.51	.47	.56	.51	.46	.55	.50	.46	.55	.50	.46	.45
10.0	.54	.48	.43	.54	.47	.43	.53	.47	.43	.52	.47	.43	.51	.46	.43	.41

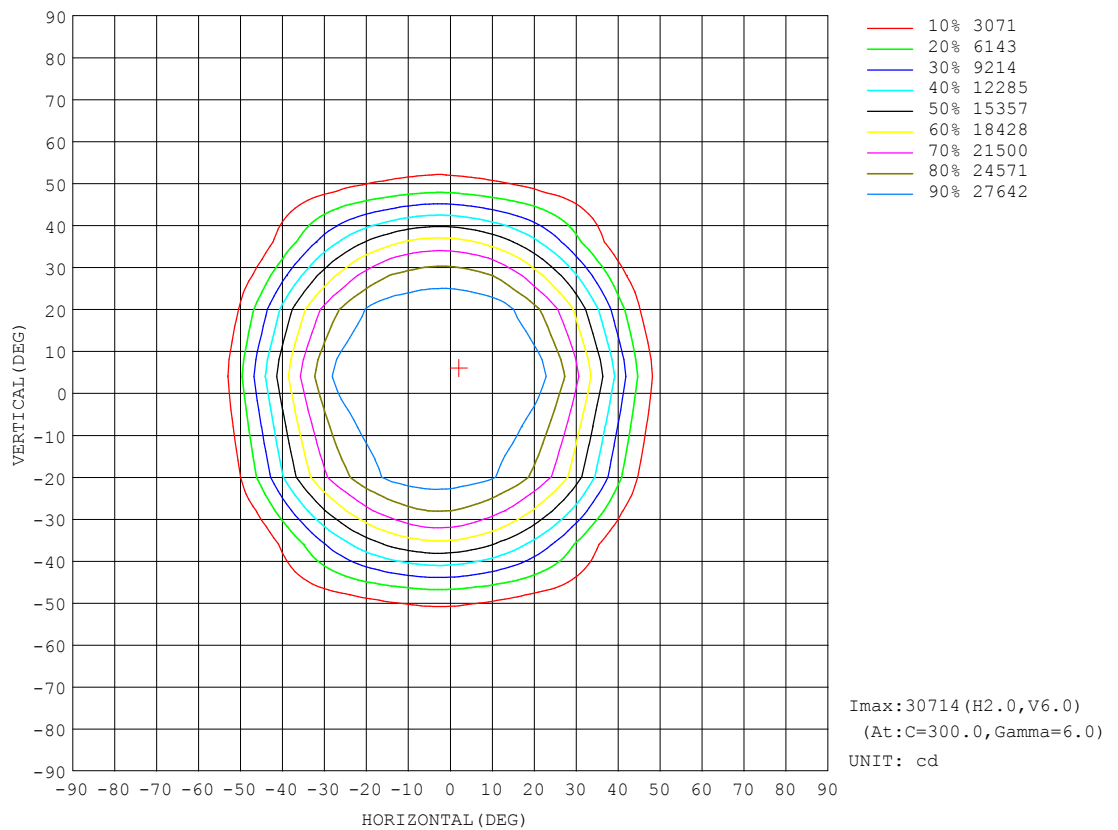


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:
 Test Date:2013-07-13

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:90.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: LED:

ISOCANDELA DIAGRAM

Test:U:220.5V I:2.239A P:484.9W PF:0.9820 Lamp Flux:44363x1 lm		
NAME: H500	TYPE:CREE	WEIGHT:12
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



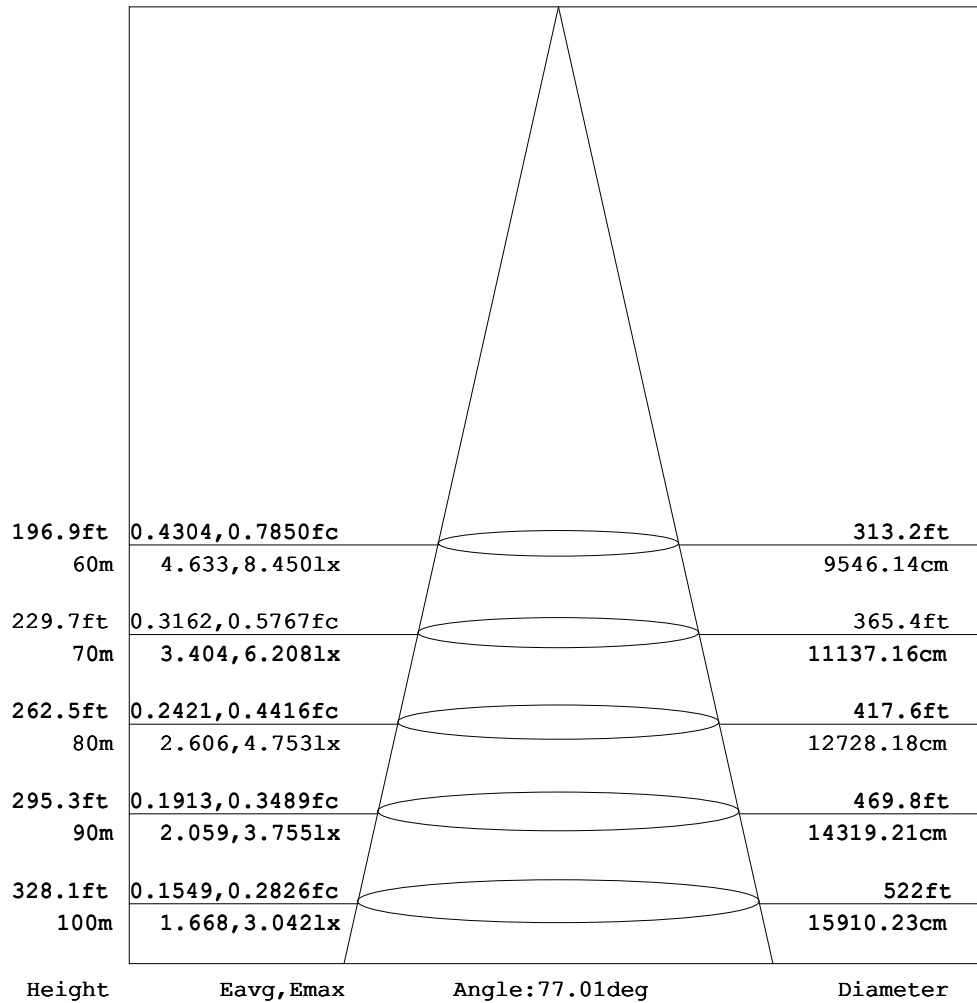
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 28DEG
 Operators:
 Test Date: 2013-07-13

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity: 90.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks: LED:

AAI Figure

Test:U:220.5V I:2.239A P:484.9W PF:0.9820 Lamp Flux:44363x1 lm		
NAME: H500	TYPE:CREE	WEIGHT:12
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:34359 lm



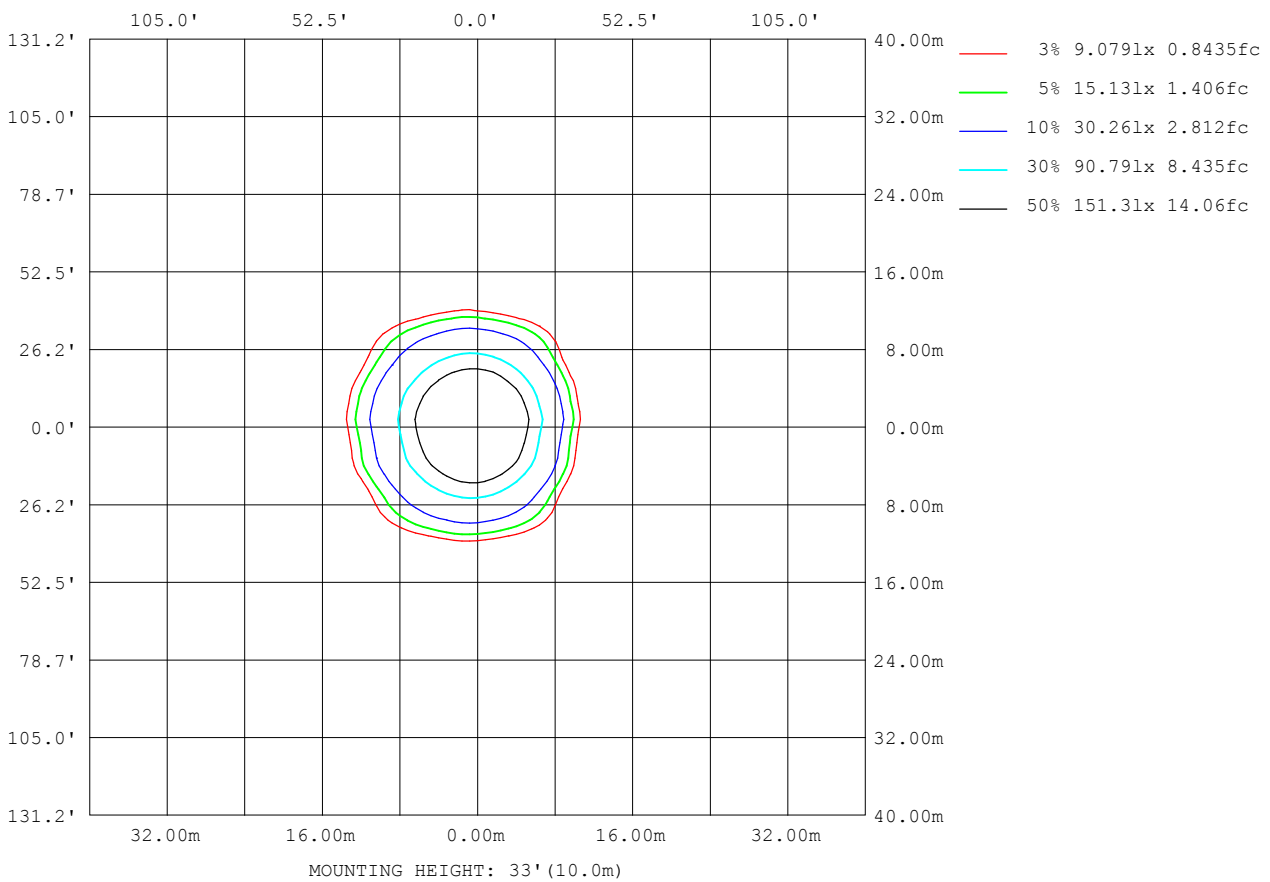
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:
 Test Date:2013-07-13

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:90.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: LED:

ISOLUX DIAGRAM

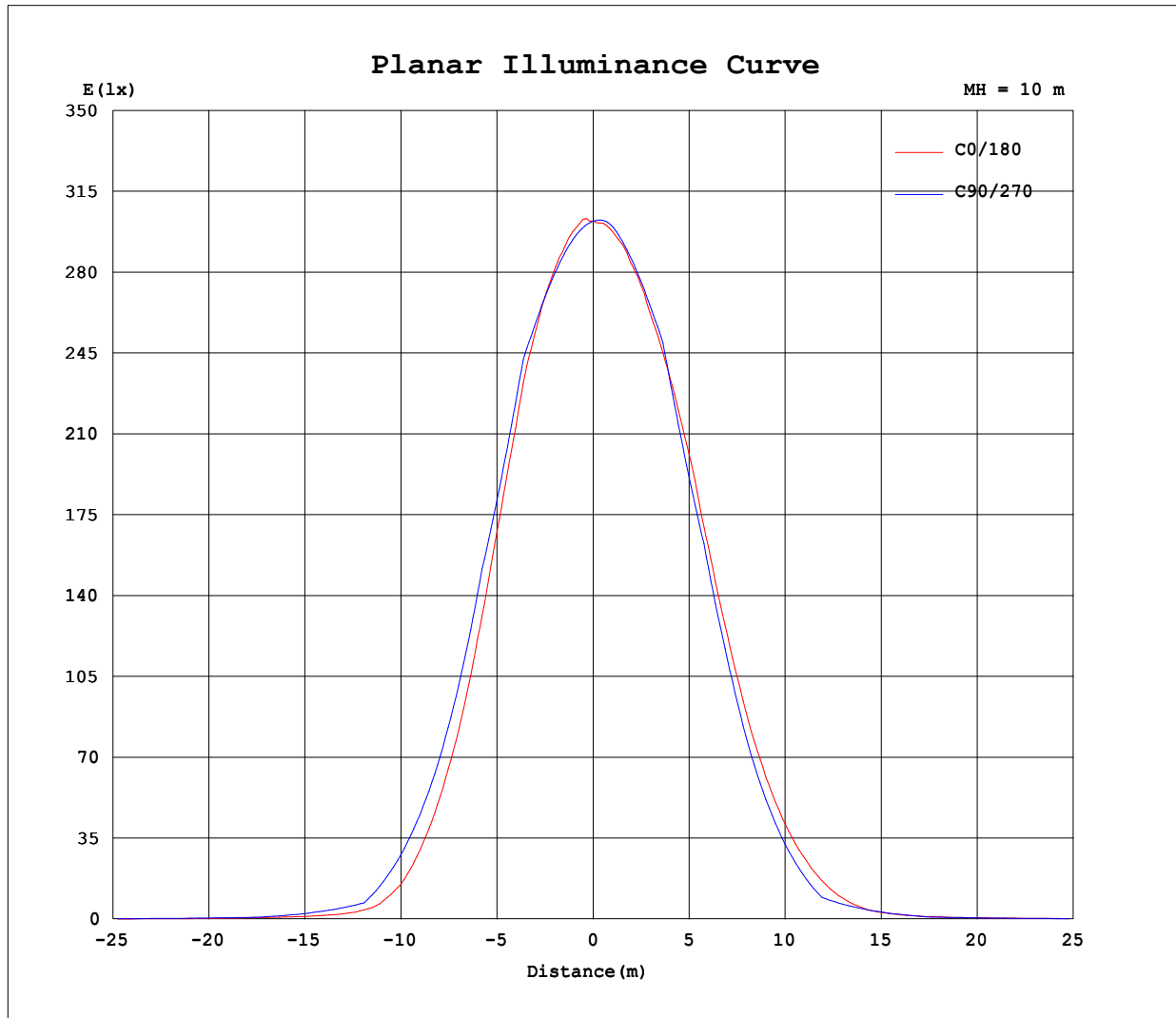
Test:U:220.5V I:2.239A P:484.9W PF:0.9820 Lamp Flux:44363x1 lm		
NAME: H500	TYPE:CREE	WEIGHT:12
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:
 Test Date:2013-07-13

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:90.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: LED:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 28DEG
Operators:
Test Date: 2013-07-13

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity: 90.0%
Test Distance: 8.000m [K=1.0000]
Remarks: LED: