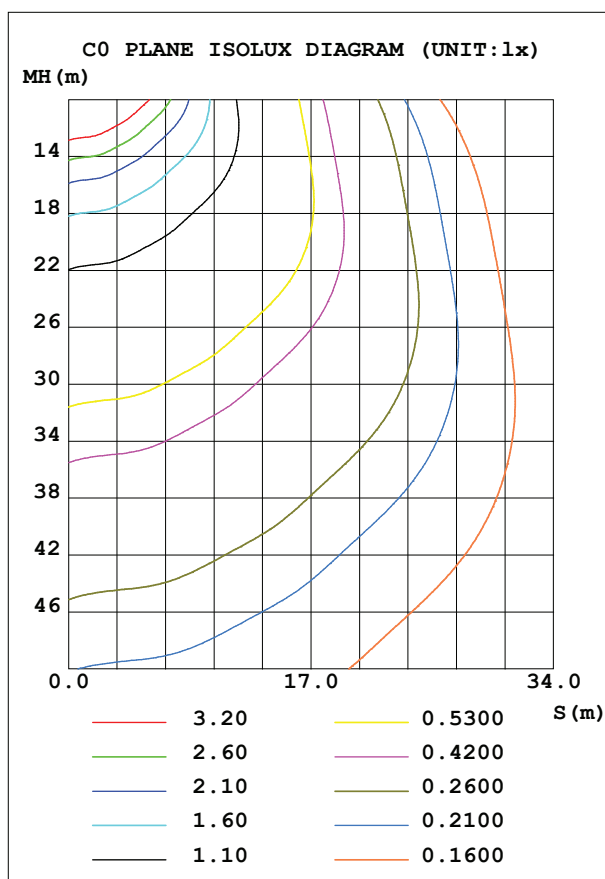
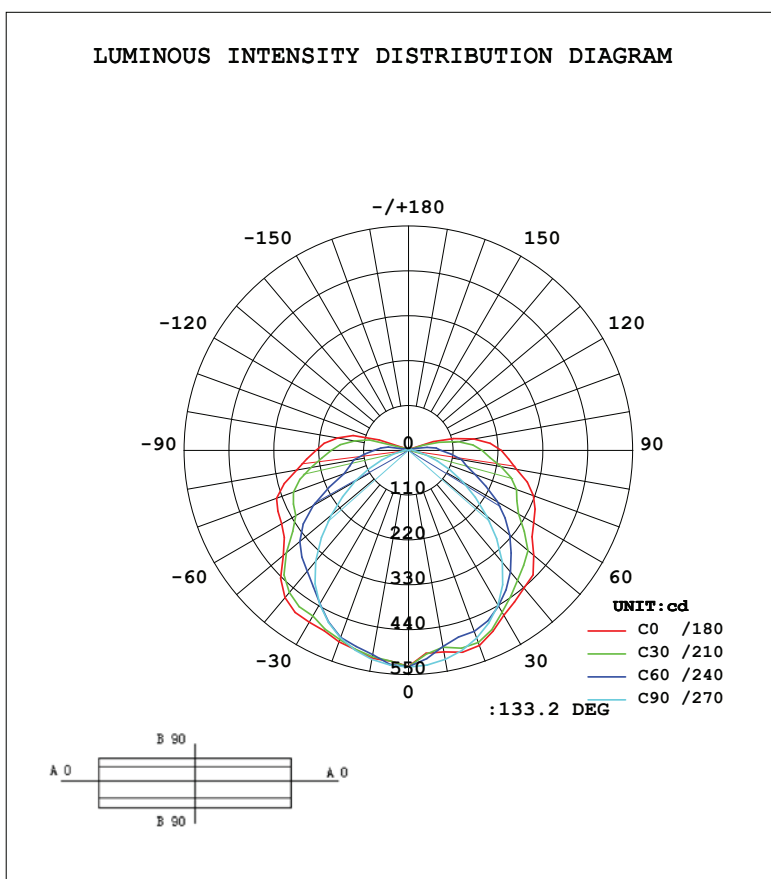


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.1V I:0.1346A P:29.45W PF:0.9115 Lamp Flux:2097x1 lm		
NAME: FL98015	TYPE:	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: FAMCO	SURFACE:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.21 lm/W			
MODEL: I50034_ 2ft LED Batten		Imax (cd)	531.2	S/MH (C0/180)	1.41
NOMINAL POWER (W)	30	EFFICIENCY (%)	100.0	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	240	TOTAL FLUX (lm)	2097.1	η UP (C0-180)	5.0
NOMINAL FLUX (lm)	2097.1	CIE CLASS	DIRECT	η DN (C0-180)	45.0
LAMPS INSIDE	1	η up (%)	10.0	η UP (C180-360)	5.0
TEST VOLTAGE (V)	240.0	η down (%)	90.0	η DN (C180-360)	45.1



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: Chris Dumesny
 Test Date: 2015-02-05

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000A SYSTEM V1.0.210
 Humidity: 65%
 Test Distance: 8.200m [K=1.0000]
 Remarks: FL98015_ 2ft LED Batten

ZONAL FLUX DIAGRAM

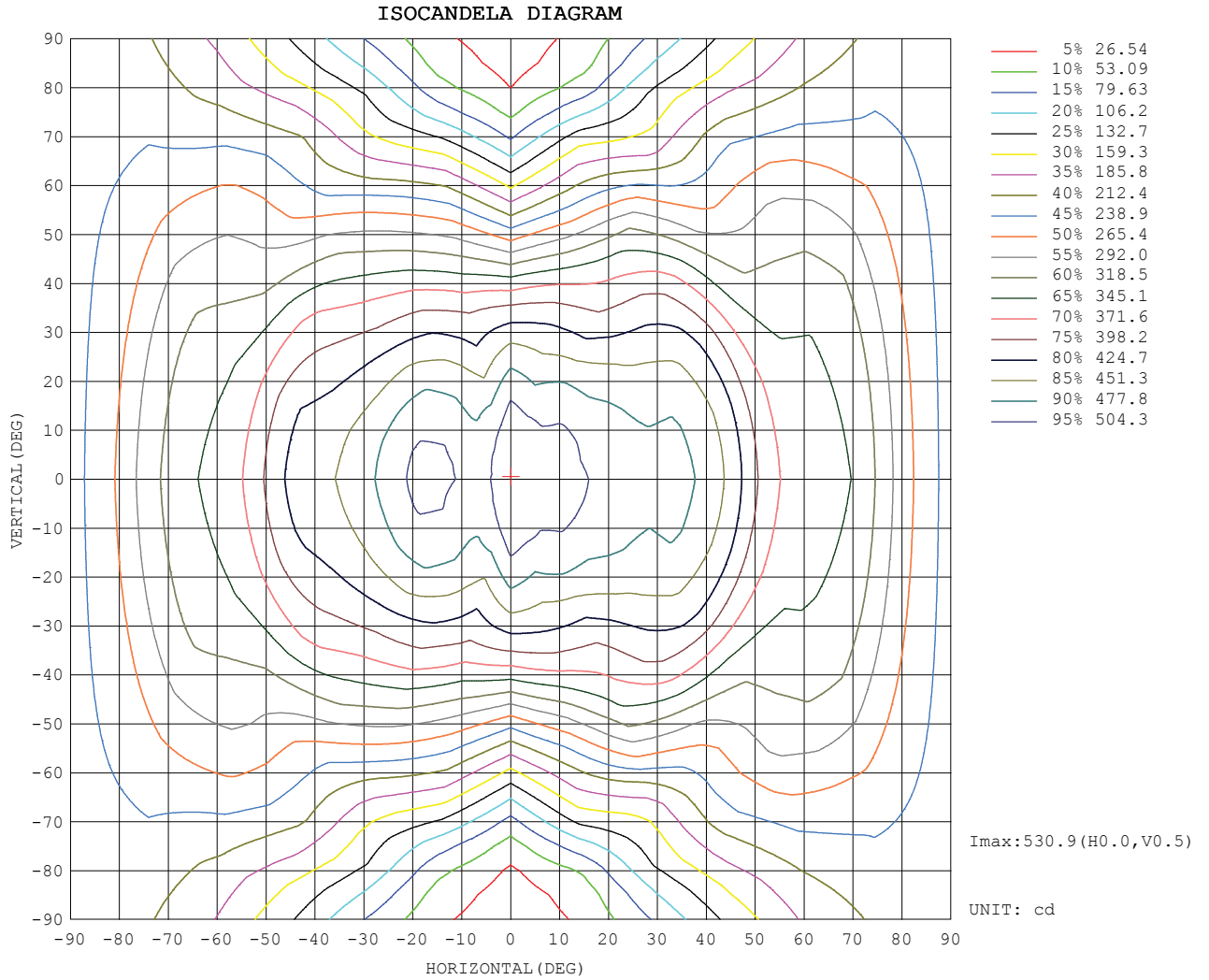
ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%
10	518.0	509.7	520.3	485.5	501.7	484.6	520.7	509.4	0- 10	49.25	49.25	2.35
20	499.4	485.7	489.1	488.2	509.3	489.1	490.2	486.4	10- 20	141.4	190.6	9.09
30	486.7	456.9	436.1	457.8	467.8	456.6	438.4	456.9	20- 30	218.5	409.1	19.51
40	471.7	424.7	354.8	401.8	440.8	399.5	358.2	426.7	30- 40	272.5	681.5	32.50
50	401.6	379.3	247.5	350.5	401.1	350.2	251.1	383.5	40- 50	298.1	979.6	46.71
60	360.0	285.7	151.3	284.4	355.0	286.2	154.5	291.2	50- 60	281.2	1261	60.12
70	344.3	242.5	70.74	232.4	326.3	228.9	75.28	244.9	60- 70	250.5	1511	72.07
80	278.4	196.6	22.33	190.1	269.6	187.5	26.24	200.7	70- 80	215.0	1726	82.32
90	226.7	140.9	9.516	135.6	227.9	131.7	11.33	144.4	80- 90	161.9	1888	90.04
100	176.8	94.18	8.772	83.86	162.1	86.29	9.984	98.74	90-100	124.3	2012	95.96
110	77.18	13.36	6.667	13.24	64.84	12.59	7.386	14.23	100-110	63.09	2076	98.97
120	9.984	7.530	4.185	7.069	10.30	7.340	4.875	8.102	110-120	9.986	2085	99.45
130	5.803	4.069	2.840	4.044	6.361	4.159	3.155	4.398	120-130	4.939	2090	99.68
140	4.164	3.062	2.195	3.051	4.216	3.040	2.382	3.057	130-140	2.850	2093	99.82
150	3.139	2.654	2.112	2.675	3.302	2.557	2.065	2.690	140-150	1.783	2095	99.91
160	2.818	2.413	2.052	2.268	2.738	2.258	1.954	2.292	150-160	1.162	2096	99.96
170	2.156	2.075	2.093	2.148	2.269	2.189	2.017	2.083	160-170	0.6290	2097	99.99
180	2.146	2.117	2.150	2.099	2.153	2.138	2.081	2.037	170-180	0.1983	2097	100.00
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Chris Dumesny
 Test Date:2015-02-05

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A SYSTEM V1.0.210
 Humidity:65%
 Test Distance:8.200m [K=1.0000]
 Remarks:FL98015_ 2ft LED Batten

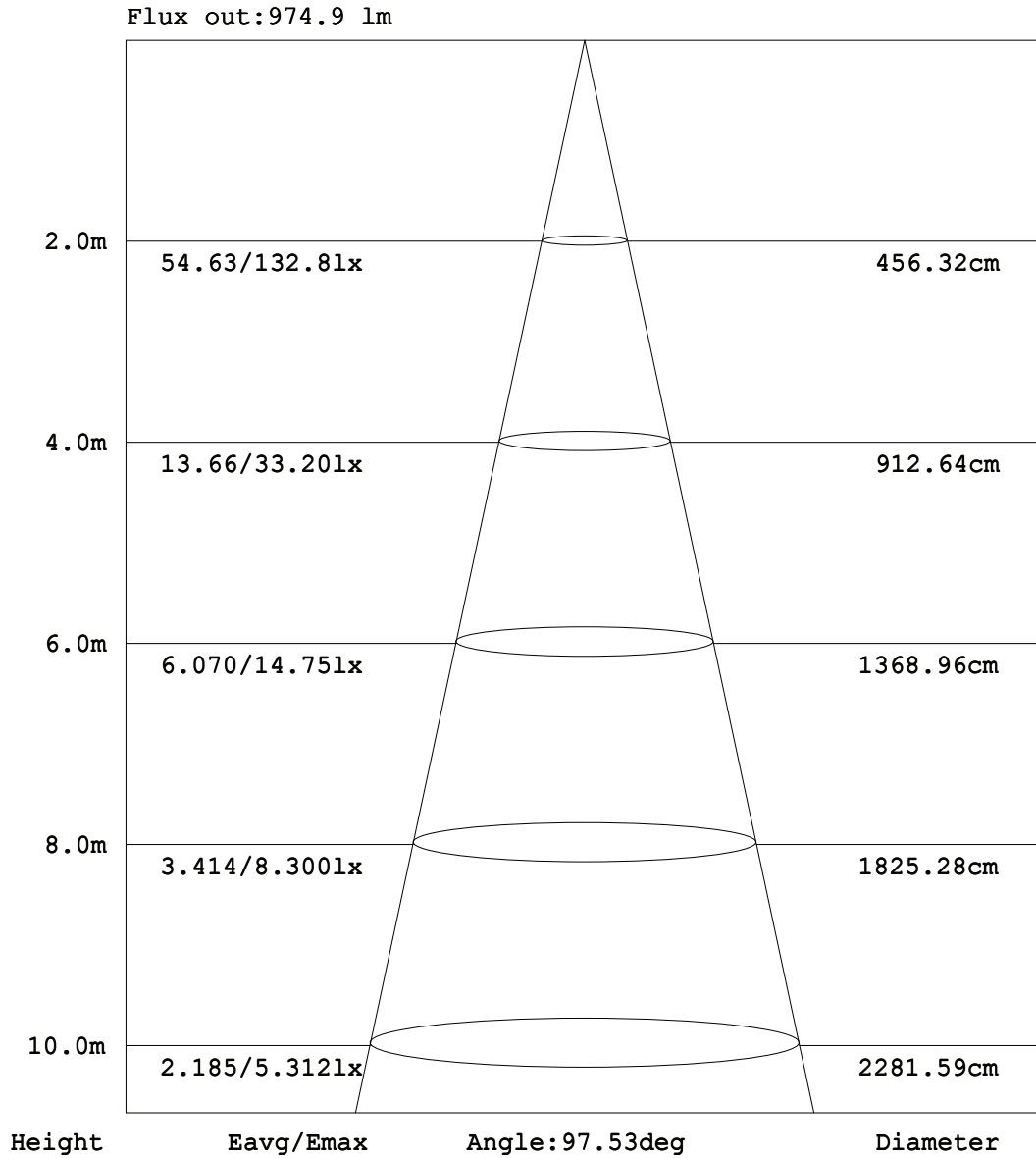
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: Chris Dumesny
 Test Date: 2015-02-05

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000A SYSTEM V1.0.210
 Humidity: 65%
 Test Distance: 8.200m [K=1.0000]
 Remarks: FL98015_ 2ft LED Batten

AAI Figure



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: 25DEG
 Operators: Chris Dumesny
 Test Date: 2015-02-05

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000A SYSTEM V1.0.210
 Humidity: 65%
 Test Distance: 8.200m [K=1.0000]
 Remarks: FL98015_ 2ft LED Batten

LUMINOUS DISTRIBUTION INTENSITY DATA

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	530	530	531	531	531	531	531	531	531	530	530	529	530	530	531	531	531	531	531
5	519	520	519	522	526	529	528	522	512	505	501	499	499	498	502	506	513	522	528
10	518	516	514	510	509	517	520	503	488	485	490	496	502	499	490	485	488	504	521
15	506	505	505	505	498	497	507	480	473	491	502	507	513	510	503	491	474	481	508
20	499	499	494	486	488	476	489	455	472	488	501	506	509	507	501	489	472	457	490
25	488	486	484	471	464	455	466	433	460	478	486	487	490	489	485	478	462	435	467
30	487	480	469	457	435	434	436	414	439	458	461	463	468	464	459	457	441	417	438
35	485	482	468	439	408	409	400	393	416	429	439	448	453	449	437	427	418	397	403
40	472	465	455	425	387	373	355	361	391	402	419	434	441	434	417	399	389	365	358
45	444	440	432	411	370	332	302	326	359	376	400	422	432	424	399	376	356	331	306
50	402	398	392	379	348	290	247	288	326	350	383	395	401	396	382	350	324	294	251
55	372	364	347	332	315	248	198	251	289	322	347	362	370	362	347	323	289	256	200
60	360	348	320	286	270	212	151	214	249	284	314	343	355	343	312	286	251	217	154
65	354	343	311	253	215	180	108	176	208	247	297	330	342	330	293	246	209	177	112
70	344	334	301	242	169	144	70.7	135	172	232	286	317	326	315	282	229	174	135	75.3
75	316	311	276	227	149	98.5	41.1	93.0	148	219	263	291	302	291	261	217	148	94.7	46.0
80	278	274	244	197	136	57.9	22.3	61.1	134	190	232	259	270	258	230	188	132	63.0	26.2
85	251	242	213	165	108	39.0	13.0	43.0	106	157	203	236	247	235	201	154	105	44.1	15.6
90	227	217	189	141	84.4	31.1	9.52	31.6	80.1	136	185	217	228	216	181	132	79.5	32.2	11.3
95	208	198	168	124	68.7	24.1	9.03	24.3	66.8	116	160	191	202	190	159	115	68.3	24.9	10.5
100	177	165	135	94.2	51.1	15.0	8.77	15.7	44.6	83.9	123	151	162	151	124	86.3	46.6	16.7	9.98
105	141	131	99.5	55.1	18.6	10.1	8.02	10.2	19.1	49.1	77.0	103	114	102	77.5	49.1	19.2	10.7	8.64
110	77.2	67.7	31.3	13.4	10.1	7.55	6.67	7.54	9.30	13.2	34.2	56.8	64.8	56.3	37.6	12.6	10.0	7.91	7.39
115	18.1	16.2	11.8	10.2	7.16	5.55	5.41	5.50	6.78	8.80	11.0	13.8	15.9	13.1	10.8	9.03	7.52	6.02	5.98
120	9.98	9.75	9.30	7.53	5.01	4.28	4.18	4.16	4.96	7.07	8.44	9.74	10.3	9.82	8.47	7.34	5.46	4.86	4.87
125	7.49	7.18	6.67	5.12	3.90	3.52	3.36	3.45	3.85	5.17	6.86	7.56	8.05	7.64	6.86	5.29	4.22	3.86	3.80
130	5.80	5.69	4.92	4.07	3.25	2.96	2.84	3.01	3.28	4.04	5.17	5.92	6.36	5.98	5.12	4.16	3.69	3.28	3.15
135	4.81	4.67	4.15	3.58	2.84	2.47	2.38	2.58	2.96	3.62	4.23	4.76	5.20	4.74	4.15	3.62	3.13	2.85	2.84
140	4.16	4.11	3.66	3.06	2.57	2.27	2.20	2.36	2.69	3.05	3.69	4.09	4.22	4.21	3.63	3.04	2.71	2.48	2.38
145	3.61	3.58	3.09	2.81	2.46	2.15	2.10	2.24	2.55	2.86	3.14	3.57	3.70	3.56	3.01	2.62	2.36	2.27	2.18
150	3.14	3.01	3.01	2.65	2.30	2.12	2.11	2.15	2.44	2.68	2.93	3.16	3.30	3.01	2.90	2.56	2.26	2.11	2.07
155	2.95	2.95	2.89	2.54	2.20	2.07	2.06	2.11	2.29	2.52	2.79	2.94	2.98	2.94	2.77	2.43	2.18	1.99	1.97
160	2.82	2.76	2.71	2.41	2.17	1.98	2.05	2.10	2.20	2.27	2.52	2.66	2.74	2.68	2.50	2.26	2.14	1.99	1.95
165	2.45	2.48	2.47	2.22	2.09	2.00	2.07	2.13	2.16	2.16	2.27	2.35	2.48	2.39	2.29	2.21	2.13	2.00	1.98
170	2.16	2.19	2.21	2.07	2.02	2.04	2.09	2.12	2.15	2.15	2.17	2.20	2.27	2.23	2.16	2.19	2.15	2.04	2.02
175	2.07	2.04	2.06	2.03	2.05	2.05	2.11	2.12	2.12	2.09	2.10	2.09	2.16	2.16	2.12	2.17	2.12	2.11	2.04
180	2.15	2.08	2.13	2.12	2.10	2.12	2.15	2.13	2.15	2.10	2.06	2.03	2.15	2.10	2.15	2.14	2.15	2.12	2.08

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: Chris Dumesny
 Test Date: 2015-02-05

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000A SYSTEM V1.0.210
 Humidity: 65%
 Test Distance: 8.200m [K=1.0000]
 Remarks: FL98015_ 2ft LED Batten

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	531	531	530	530	529														
5	530	526	521	519	517														
10	517	509	509	514	516														
15	498	499	506	505	504														
20	477	489	486	494	498														
25	456	466	472	483	487														
30	437	436	457	468	481														
35	412	411	438	468	481														
40	377	390	427	456	467														
45	337	372	414	433	442														
50	295	349	384	395	399														
55	253	320	339	349	366														
60	216	278	291	321	352														
65	185	224	257	312	346														
70	150	176	245	302	335														
75	106	155	233	279	313														
80	66.0	141	201	245	274														
85	44.8	113	168	213	244														
90	35.5	88.9	144	191	221														
95	27.5	76.6	129	173	201														
100	17.9	57.1	98.7	139	170														
105	11.0	18.3	59.8	106	133														
110	8.13	11.2	14.2	37.9	68.5														
115	6.19	7.99	10.8	12.0	15.8														
120	4.95	5.86	8.10	9.50	10.00														
125	3.91	4.54	5.65	6.89	7.30														
130	3.35	3.75	4.40	4.99	5.69														
135	2.93	3.18	3.72	4.18	4.72														
140	2.58	2.73	3.06	3.59	4.10														
145	2.29	2.49	2.91	2.95	3.61														
150	2.13	2.37	2.69	3.06	3.16														
155	2.09	2.18	2.47	2.94	2.98														
160	1.98	2.14	2.29	2.55	2.76														
165	1.96	2.08	2.19	2.25	2.44														
170	2.01	2.01	2.08	2.12	2.19														
175	2.04	1.99	1.96	2.01	2.03														
180	2.11	2.13	2.04	2.03	2.12														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: Chris Dumesny
 Test Date: 2015-02-05

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000A SYSTEM V1.0.210
 Humidity: 65%
 Test Distance: 8.200m [K=1.0000]
 Remarks: FL98015_ 2ft LED Batten