

Scaled data based on original data using  
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact  
Fluorescent Lamps

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: SHAPER

Report Number: 253p148

Luminaire Tested: **1270-36-CFL/6/55**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 253p148  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 1270-36-CFL/6/55  
Description: SHAPER 36 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE  
Light Source: SIX 55 WATT GX24 T4 COMPACT FLUORESCENT LAMPS  
(6)F55BX - 4800 LUMENS - 55 WATTS  
Ballast/Driver: -

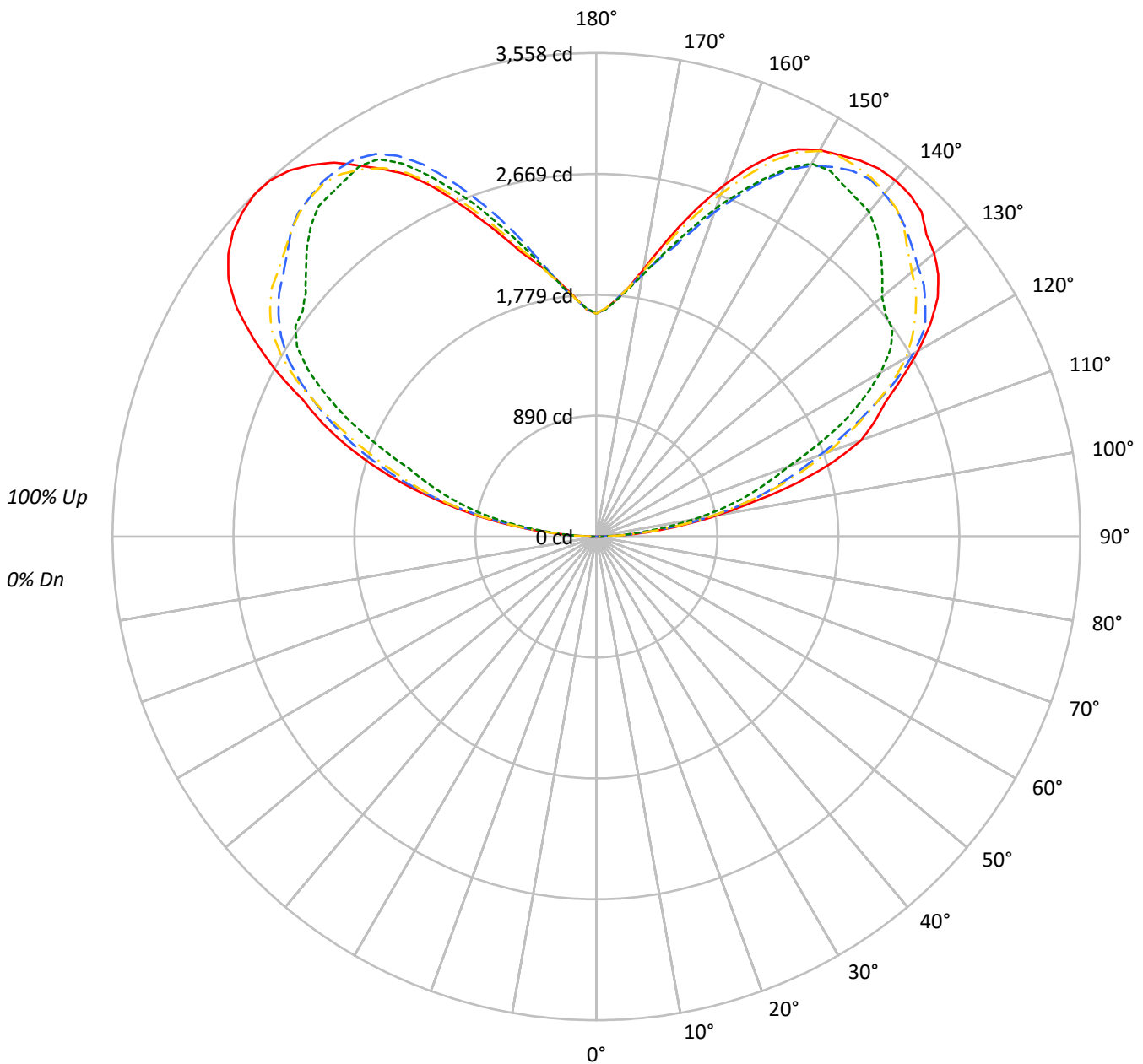
**Summary**

Lumens per Lamp: 4800 (6 lamps)  
Luminaire Lumens: 13299.7 lumens  
Efficiency: 46.2%  
Efficacy: 38.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Circular (Dia: 3' x H: 0')  
CIE Type: Indirect

Input Watts (W): 345  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: 253p148  
CATALOG NUMBER: 1270-36-CFL/6/55

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - 90°-270°    - · - 135°-315°



TEST NUMBER: 253p148

CATALOG NUMBER: 1270-36-CFL/6/55

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	44	44	44	44	38	38	38	38	26	26	26	15	15	15	5	5	5	0	0	0	0
1	40	38	36	35	34	33	31	30	22	22	21	13	12	12	4	4	4	0	0	0	0
2	36	33	31	29	31	28	26	25	20	18	17	11	11	10	4	3	3	0	0	0	0
3	33	29	26	24	28	25	23	20	17	16	14	10	9	8	3	3	3	0	0	0	0
4	30	26	22	20	26	22	19	17	15	13	12	9	8	7	3	3	2	0	0	0	0
5	28	23	19	17	23	20	17	15	13	12	10	8	7	6	3	2	2	0	0	0	0
6	25	20	17	14	22	17	15	13	12	10	9	7	6	5	2	2	2	0	0	0	0
7	23	18	15	12	20	16	13	11	11	9	8	6	5	5	2	2	2	0	0	0	0
8	21	16	13	11	18	14	11	9	10	8	7	6	5	4	2	2	1	0	0	0	0
9	20	15	12	9	17	13	10	8	9	7	6	5	4	3	2	1	1	0	0	0	0
10	18	13	10	8	16	12	9	7	8	6	5	5	4	3	2	1	1	0	0	0	0

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	0	0	0	0
5°	0	0	0	0
10°	0	0	0	0
15°	0	0	0	0
20°	0	0	0	0
25°	0	0	0	0
30°	0	0	0	0
35°	0	0	0	0
40°	0	0	0	0
45°	0	0	0	0
50°	0	0	0	0
55°	0	0	0	0
60°	0	0	0	0
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0



TEST NUMBER: 253p148

CATALOG NUMBER: 1270-36-CFL/6/55

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	2.1	0.0	0.0
90°-100°	403.4	3.0	1.4
100°-110°	1393.6	10.5	4.8
110°-120°	2197.7	16.5	7.6
120°-130°	2587.4	19.5	9.0
130°-140°	2467.1	18.6	8.6
140°-150°	2056.9	15.5	7.1
150°-160°	1364.9	10.3	4.7
160°-170°	652.4	4.9	2.3
170°-180°	174.1	1.3	0.6
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	2.1	0.0	0.0
90°-120°	3994.7	30.0	13.9
90°-150°	11106.2	83.5	38.6
90°-180°	13298.0	100.0	46.2
0°-180°	13299.7	100.0	46.2

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	13	9	21	16	13	23
95°	375	271	354	297	375	414
105°	1529	1138	1434	1127	1529	1589
115°	2347	2012	2382	1991	2347	2353
125°	3064	2658	3302	2701	3064	2717
135°	3380	2957	3558	3009	3380	2595
145°	3378	3161	3359	3210	3378	2117
155°	3098	2900	2837	2935	3098	1427
165°	2362	2236	2173	2253	2362	682
175°	1754	1750	1761	1757	1754	175
180°	1641	1641	1641	1641	1641	



TEST NUMBER: 253p148

CATALOG NUMBER: 1270-36-CFL/6/55

**CANDELA DISTRIBUTION (FULL):**

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	13	16	16	17	21	13	9	12	13	16	16
92.5°	140	146	130	148	143	120	102	121	140	146	130
95°	375	350	297	325	354	340	271	320	375	350	297
97.5°	627	594	525	596	618	587	488	573	627	594	525
100°	901	831	751	846	894	849	720	835	901	831	751
102.5°	1184	1060	950	1084	1151	1091	939	1085	1184	1060	950
105°	1529	1283	1127	1289	1434	1300	1138	1327	1529	1283	1127
107.5°	1827	1491	1298	1464	1703	1487	1318	1546	1827	1491	1298
110°	2070	1721	1469	1678	1951	1699	1501	1773	2070	1721	1469



TEST NUMBER: 253p148

CATALOG NUMBER: 1270-36-CFL/6/55

**CANDELA DISTRIBUTION (continued):**

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	2215	1962	1724	1917	2179	1942	1756	2002	2215	1962	1724
115°	2347	2196	1991	2175	2382	2191	2012	2223	2347	2196	1991
117.5°	2535	2419	2229	2421	2663	2422	2224	2420	2535	2419	2229
120°	2731	2596	2445	2619	2910	2603	2412	2581	2731	2596	2445
122.5°	2912	2706	2610	2776	3137	2732	2564	2696	2912	2706	2610
125°	3064	2798	2701	2835	3302	2804	2658	2783	3064	2798	2701
127.5°	3169	2896	2723	2912	3411	2873	2681	2864	3169	2896	2723
130°	3243	2957	2790	2955	3488	2905	2743	2926	3243	2957	2790
132.5°	3291	3045	2896	3024	3530	2968	2852	3014	3291	3045	2896
135°	3380	3140	3009	3101	3558	3046	2957	3108	3380	3140	3009
137.5°	3412	3221	3106	3169	3553	3125	3048	3183	3412	3221	3106
140°	3420	3264	3175	3220	3515	3178	3120	3217	3420	3264	3175
142.5°	3412	3295	3191	3265	3445	3231	3138	3259	3412	3295	3191
145°	3378	3310	3210	3260	3359	3225	3161	3280	3378	3310	3210
147.5°	3328	3316	3235	3221	3234	3192	3194	3283	3328	3316	3235
150°	3282	3274	3205	3161	3119	3135	3167	3239	3282	3274	3205
152.5°	3213	3174	3095	3048	3001	3021	3054	3140	3213	3174	3095
155°	3098	3026	2935	2892	2837	2872	2900	2996	3098	3026	2935
157.5°	2937	2844	2763	2728	2656	2711	2733	2817	2937	2844	2763
160°	2753	2660	2596	2556	2484	2541	2571	2637	2753	2660	2596
162.5°	2560	2481	2415	2379	2323	2369	2395	2464	2560	2481	2415
165°	2362	2310	2253	2219	2173	2210	2236	2292	2362	2310	2253
167.5°	2169	2134	2100	2084	2066	2078	2088	2118	2169	2134	2100
170°	1995	1979	1961	1957	1964	1950	1953	1968	1995	1979	1961
172.5°	1853	1851	1848	1851	1859	1847	1840	1841	1853	1851	1848
175°	1754	1758	1757	1757	1761	1756	1750	1750	1754	1758	1757
177.5°	1682	1685	1680	1678	1675	1675	1676	1678	1682	1685	1680
180°	1641	1641	1641	1641	1641	1641	1641	1641	1641	1641	1641



TEST NUMBER: 253p148

CATALOG NUMBER: 1270-36-CFL/6/55

**CANDELA DISTRIBUTION (continued):**

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	17	21	13	9	12	13	16	16	17	21	13
92.5°	148	143	120	102	121	140	146	130	148	143	120
95°	325	354	340	271	320	375	350	297	325	354	340
97.5°	596	618	587	488	573	627	594	525	596	618	587
100°	846	894	849	720	835	901	831	751	846	894	849
102.5°	1084	1151	1091	939	1085	1184	1060	950	1084	1151	1091
105°	1289	1434	1300	1138	1327	1529	1283	1127	1289	1434	1300
107.5°	1464	1703	1487	1318	1546	1827	1491	1298	1464	1703	1487
110°	1678	1951	1699	1501	1773	2070	1721	1469	1678	1951	1699





TEST NUMBER: 253p148

CATALOG NUMBER: 1270-36-CFL/6/55

**CANDELA DISTRIBUTION (continued):**

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	1917	2179	1942	1756	2002	2215	1962	1724	1917	2179	1942
115°	2175	2382	2191	2012	2223	2347	2196	1991	2175	2382	2191
117.5°	2421	2663	2422	2224	2420	2535	2419	2229	2421	2663	2422
120°	2619	2910	2603	2412	2581	2731	2596	2445	2619	2910	2603
122.5°	2776	3137	2732	2564	2696	2912	2706	2610	2776	3137	2732
125°	2835	3302	2804	2658	2783	3064	2798	2701	2835	3302	2804
127.5°	2912	3411	2873	2681	2864	3169	2896	2723	2912	3411	2873
130°	2955	3488	2905	2743	2926	3243	2957	2790	2955	3488	2905
132.5°	3024	3530	2968	2852	3014	3291	3045	2896	3024	3530	2968
135°	3101	3558	3046	2957	3108	3380	3140	3009	3101	3558	3046
137.5°	3169	3553	3125	3048	3183	3412	3221	3106	3169	3553	3125
140°	3220	3515	3178	3120	3217	3420	3264	3175	3220	3515	3178
142.5°	3265	3445	3231	3138	3259	3412	3295	3191	3265	3445	3231
145°	3260	3359	3225	3161	3280	3378	3310	3210	3260	3359	3225
147.5°	3221	3234	3192	3194	3283	3328	3316	3235	3221	3234	3192
150°	3161	3119	3135	3167	3239	3282	3274	3205	3161	3119	3135
152.5°	3048	3001	3021	3054	3140	3213	3174	3095	3048	3001	3021
155°	2892	2837	2872	2900	2996	3098	3026	2935	2892	2837	2872
157.5°	2728	2656	2711	2733	2817	2937	2844	2763	2728	2656	2711
160°	2556	2484	2541	2571	2637	2753	2660	2596	2556	2484	2541
162.5°	2379	2323	2369	2395	2464	2560	2481	2415	2379	2323	2369
165°	2219	2173	2210	2236	2292	2362	2310	2253	2219	2173	2210
167.5°	2084	2066	2078	2088	2118	2169	2134	2100	2084	2066	2078
170°	1957	1964	1950	1953	1968	1995	1979	1961	1957	1964	1950
172.5°	1851	1859	1847	1840	1841	1853	1851	1848	1851	1859	1847
175°	1757	1761	1756	1750	1750	1754	1758	1757	1757	1761	1756
177.5°	1678	1675	1675	1676	1678	1682	1685	1680	1678	1675	1675
180°	1641	1641	1641	1641	1641	1641	1641	1641	1641	1641	1641



TEST NUMBER: 253p148

CATALOG NUMBER: 1270-36-CFL/6/55

**CANDELA DISTRIBUTION (continued):**

	330°	340°	360°
0°	0	0	0
2.5°	0	0	0
5°	0	0	0
7.5°	0	0	0
10°	0	0	0
12.5°	0	0	0
15°	0	0	0
17.5°	0	0	0
20°	0	0	0
22.5°	0	0	0
25°	0	0	0
27.5°	0	0	0
30°	0	0	0
32.5°	0	0	0
35°	0	0	0
37.5°	0	0	0
40°	0	0	0
42.5°	0	0	0
45°	0	0	0
47.5°	0	0	0
50°	0	0	0
52.5°	0	0	0
55°	0	0	0
57.5°	0	0	0
60°	0	0	0
62.5°	0	0	0
65°	0	0	0
67.5°	0	0	0
70°	0	0	0
72.5°	0	0	0
75°	0	0	0
77.5°	0	0	0
80°	0	0	0
82.5°	0	0	0
85°	0	0	0
87.5°	0	0	0
90°	9	12	13
92.5°	102	121	140
95°	271	320	375
97.5°	488	573	627
100°	720	835	901
102.5°	939	1085	1184
105°	1138	1327	1529
107.5°	1318	1546	1827
110°	1501	1773	2070



TEST NUMBER: 253p148

CATALOG NUMBER: 1270-36-CFL/6/55

**CANDELA DISTRIBUTION (continued):**

	330°	340°	360°
112.5°	1756	2002	2215
115°	2012	2223	2347
117.5°	2224	2420	2535
120°	2412	2581	2731
122.5°	2564	2696	2912
125°	2658	2783	3064
127.5°	2681	2864	3169
130°	2743	2926	3243
132.5°	2852	3014	3291
135°	2957	3108	3380
137.5°	3048	3183	3412
140°	3120	3217	3420
142.5°	3138	3259	3412
145°	3161	3280	3378
147.5°	3194	3283	3328
150°	3167	3239	3282
152.5°	3054	3140	3213
155°	2900	2996	3098
157.5°	2733	2817	2937
160°	2571	2637	2753
162.5°	2395	2464	2560
165°	2236	2292	2362
167.5°	2088	2118	2169
170°	1953	1968	1995
172.5°	1840	1841	1853
175°	1750	1750	1754
177.5°	1676	1678	1682
180°	1641	1641	1641

(END OF REPORT)