

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: 253P153

Luminaire Tested: **1270-44-CFL/4/40**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 253P153  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 1270-44-CFL/4/40  
Description: SHAPER 44 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE  
Light Source: FOUR 40 WATT GX24 T4 COMPACT FLUORESCENT LAMPS  
(4)F40BX - 3150 LUMENS - 40 WATTS  
Ballast/Driver: -

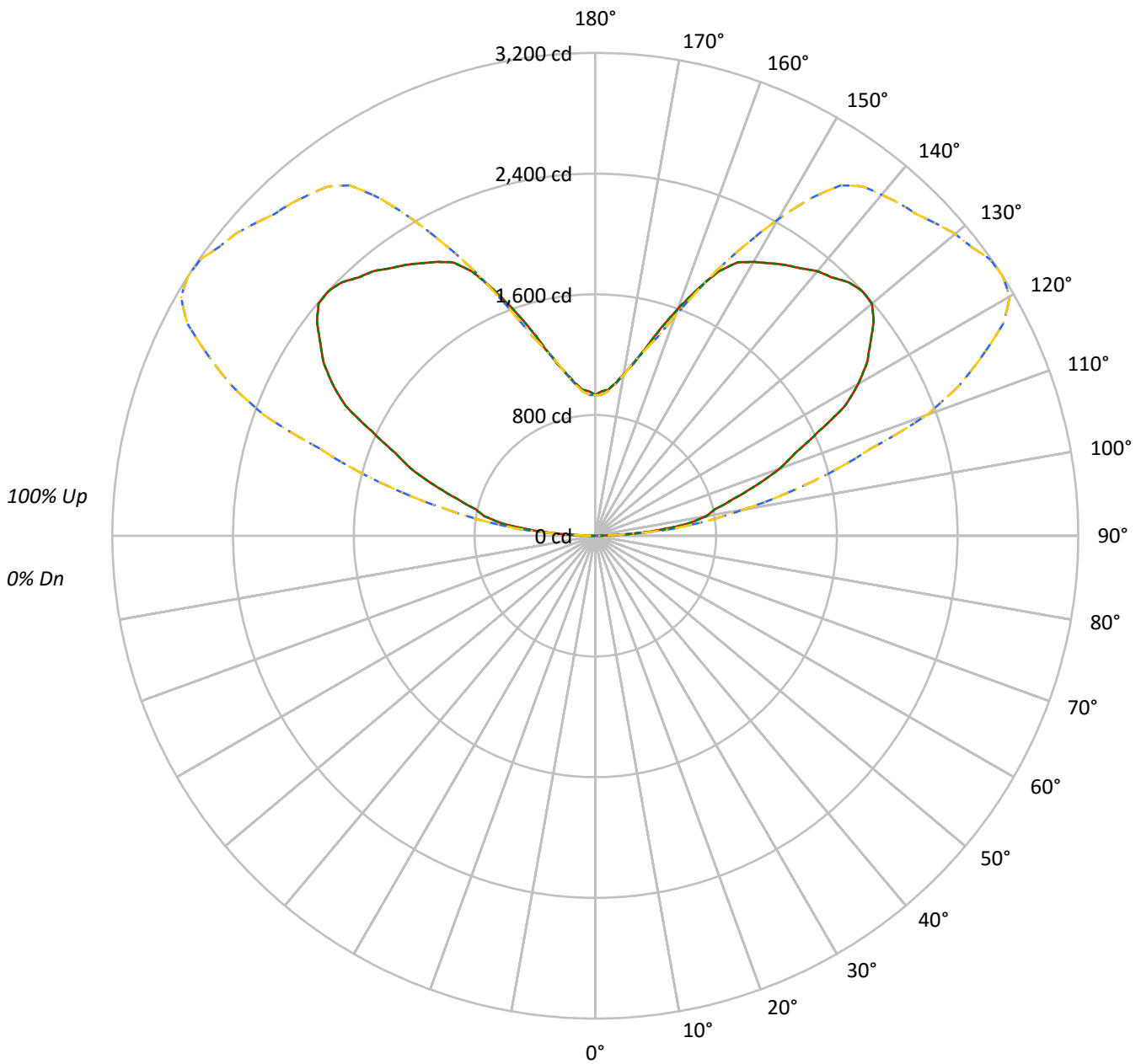
**Summary**

Lumens per Lamp: 3150 (4 lamps)  
Luminaire Lumens: 11744.5 lumens  
Efficiency: 93.2%  
Efficacy: 73.4 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Circular (Dia: 3.67' x H: 0')  
CIE Type: Indirect

Input Watts (W): 160  
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

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### Luminous Intensity Polar Plot



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



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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	89	89	89	89	76	76	76	76	52	52	52	30	30	30	10	10	10	0
1	81	77	74	71	69	66	63	61	45	43	42	26	25	24	8	8	8	0
2	73	67	62	58	62	57	53	50	39	37	35	23	21	20	7	7	7	0
3	67	59	53	48	57	50	45	41	35	32	29	20	18	17	6	6	6	0
4	61	52	45	40	52	44	39	35	31	27	24	18	16	14	6	5	5	0
5	56	46	39	34	47	39	34	29	27	24	21	16	14	12	5	5	4	0
6	51	41	34	29	43	35	29	25	24	21	18	14	12	11	5	4	4	0
7	47	37	30	25	40	31	26	22	22	18	15	13	11	9	4	3	3	0
8	43	33	26	22	37	28	23	19	20	16	13	11	9	8	4	3	3	0
9	40	30	23	19	34	26	20	17	18	14	12	10	8	7	3	3	2	0
10	37	27	21	17	32	23	18	15	16	13	10	9	8	6	3	2	2	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



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**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°	0.6	0.0	0.0
90°-100°	493.4	4.2	3.9
100°-110°	1483.4	12.6	11.8
110°-120°	2249.1	19.2	17.9
120°-130°	2488.9	21.2	19.8
130°-140°	2116.4	18.0	16.8
140°-150°	1536.3	13.1	12.2
150°-160°	905.0	7.7	7.2
160°-170°	375.3	3.2	3.0
170°-180°	96.1	0.8	0.8
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°	0.6	0.0	0.0
90°-120°	4226.0	36.0	33.5
90°-150°	10367.6	88.3	82.3
90°-180°	11744.0	100.0	93.2
0°-180°	11744.5	100.0	93.2

**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°	2	2	2	2	2	23
95°	416	416	416	416	416	405
105°	950	950	950	950	950	1031
115°	1630	1630	1630	1630	1630	1630
125°	2223	2223	2223	2223	2223	1989
135°	2375	2375	2375	2375	2375	1828
145°	2191	2191	2191	2191	2191	1378
155°	1931	1931	1931	1931	1931	885
165°	1284	1284	1284	1284	1284	378
175°	971	971	971	971	971	97
180°	932	932	932	932	932	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
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°	2	6	4	6	2	6	4	6	2	6	4
92.5°	166	146	164	180	166	146	164	180	166	146	164
95°	416	443	495	485	416	443	495	485	416	443	495
97.5°	618	725	737	784	618	725	737	784	618	725	737
100°	745	1007	995	1027	745	1007	995	1027	745	1007	995
102.5°	813	1263	1295	1291	813	1263	1295	1291	813	1263	1295
105°	950	1520	1608	1524	950	1520	1608	1524	950	1520	1608
107.5°	1123	1774	1910	1768	1123	1774	1910	1768	1123	1774	1910
110°	1300	1946	2334	1950	1300	1946	2334	1950	1300	1946	2334



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1434	2098	2613	2116	1434	2098	2613	2116	1434	2098	2613
115°	1630	2295	2832	2358	1630	2295	2832	2358	1630	2295	2832
117.5°	1867	2471	3049	2569	1867	2471	3049	2569	1867	2471	3049
120°	2011	2602	3170	2689	2011	2602	3170	2689	2011	2602	3170
122.5°	2134	2734	3200	2834	2134	2734	3200	2834	2134	2734	3200
125°	2223	2856	3193	2938	2223	2856	3193	2938	2223	2856	3193
127.5°	2324	2928	3142	2991	2324	2928	3142	2991	2324	2928	3142
130°	2393	2908	3112	2967	2393	2908	3112	2967	2393	2908	3112
132.5°	2399	2845	3062	2888	2399	2845	3062	2888	2399	2845	3062
135°	2375	2750	3012	2780	2375	2750	3012	2780	2375	2750	3012
137.5°	2321	2670	2986	2693	2321	2670	2986	2693	2321	2670	2986
140°	2289	2567	2950	2590	2289	2567	2950	2590	2289	2567	2950
142.5°	2234	2471	2917	2492	2234	2471	2917	2492	2234	2471	2917
145°	2191	2388	2835	2398	2191	2388	2835	2398	2191	2388	2835
147.5°	2142	2300	2648	2315	2142	2300	2648	2315	2142	2300	2648
150°	2095	2227	2419	2239	2095	2227	2419	2239	2095	2227	2419
152.5°	2043	2115	2188	2124	2043	2115	2188	2124	2043	2115	2188
155°	1931	1944	1968	1949	1931	1944	1968	1949	1931	1944	1968
157.5°	1767	1760	1748	1769	1767	1760	1748	1769	1767	1760	1748
160°	1598	1586	1549	1601	1598	1586	1549	1601	1598	1586	1549
162.5°	1438	1418	1386	1425	1438	1418	1386	1425	1438	1418	1386
165°	1284	1271	1274	1272	1284	1271	1274	1272	1284	1271	1274
167.5°	1167	1164	1176	1165	1167	1164	1176	1165	1167	1164	1176
170°	1087	1083	1083	1084	1087	1083	1083	1084	1087	1083	1083
172.5°	1019	1015	1011	1016	1019	1015	1011	1016	1019	1015	1011
175°	971	964	961	968	971	964	961	968	971	964	961
177.5°	959	936	934	944	959	936	934	944	959	936	934
180°	932	932	932	932	932	932	932	932	932	932	932



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	0	0	0	0	0	0
2.5°	0	0	0	0	0	0
5°	0	0	0	0	0	0
7.5°	0	0	0	0	0	0
10°	0	0	0	0	0	0
12.5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
17.5°	0	0	0	0	0	0
20°	0	0	0	0	0	0
22.5°	0	0	0	0	0	0
25°	0	0	0	0	0	0
27.5°	0	0	0	0	0	0
30°	0	0	0	0	0	0
32.5°	0	0	0	0	0	0
35°	0	0	0	0	0	0
37.5°	0	0	0	0	0	0
40°	0	0	0	0	0	0
42.5°	0	0	0	0	0	0
45°	0	0	0	0	0	0
47.5°	0	0	0	0	0	0
50°	0	0	0	0	0	0
52.5°	0	0	0	0	0	0
55°	0	0	0	0	0	0
57.5°	0	0	0	0	0	0
60°	0	0	0	0	0	0
62.5°	0	0	0	0	0	0
65°	0	0	0	0	0	0
67.5°	0	0	0	0	0	0
70°	0	0	0	0	0	0
72.5°	0	0	0	0	0	0
75°	0	0	0	0	0	0
77.5°	0	0	0	0	0	0
80°	0	0	0	0	0	0
82.5°	0	0	0	0	0	0
85°	0	0	0	0	0	0
87.5°	0	0	0	0	0	0
90°	6	2	6	4	6	2
92.5°	180	166	146	164	180	166
95°	485	416	443	495	485	416
97.5°	784	618	725	737	784	618
100°	1027	745	1007	995	1027	745
102.5°	1291	813	1263	1295	1291	813
105°	1524	950	1520	1608	1524	950
107.5°	1768	1123	1774	1910	1768	1123
110°	1950	1300	1946	2334	1950	1300





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2116	1434	2098	2613	2116	1434
115°	2358	1630	2295	2832	2358	1630
117.5°	2569	1867	2471	3049	2569	1867
120°	2689	2011	2602	3170	2689	2011
122.5°	2834	2134	2734	3200	2834	2134
125°	2938	2223	2856	3193	2938	2223
127.5°	2991	2324	2928	3142	2991	2324
130°	2967	2393	2908	3112	2967	2393
132.5°	2888	2399	2845	3062	2888	2399
135°	2780	2375	2750	3012	2780	2375
137.5°	2693	2321	2670	2986	2693	2321
140°	2590	2289	2567	2950	2590	2289
142.5°	2492	2234	2471	2917	2492	2234
145°	2398	2191	2388	2835	2398	2191
147.5°	2315	2142	2300	2648	2315	2142
150°	2239	2095	2227	2419	2239	2095
152.5°	2124	2043	2115	2188	2124	2043
155°	1949	1931	1944	1968	1949	1931
157.5°	1769	1767	1760	1748	1769	1767
160°	1601	1598	1586	1549	1601	1598
162.5°	1425	1438	1418	1386	1425	1438
165°	1272	1284	1271	1274	1272	1284
167.5°	1165	1167	1164	1176	1165	1167
170°	1084	1087	1083	1083	1084	1087
172.5°	1016	1019	1015	1011	1016	1019
175°	968	971	964	961	968	971
177.5°	944	959	936	934	944	959
180°	932	932	932	932	932	932

(END OF REPORT)