

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: 253p155

Luminaire Tested: **1270-44-CFL/4/50**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253p155
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1270-44-CFL/4/50
Description: SHAPER 44 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE
Light Source: FOUR 50 WATT GX24 T4 COMPACT FLUORESCENT LAMPS
(4)F50BX/SPX41 - 4000 LUMENS - 50 WATTS
Ballast/Driver: -

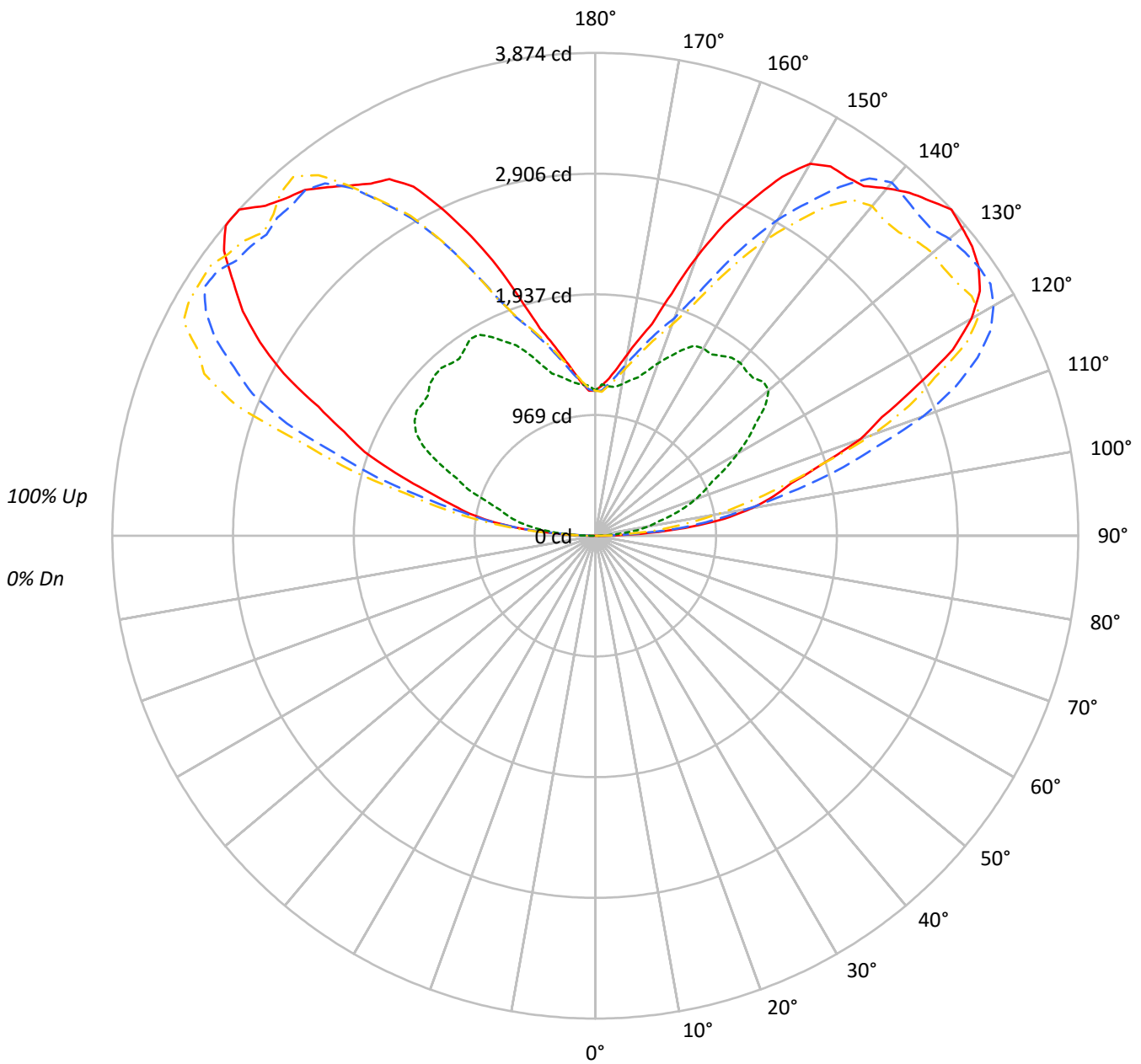
Summary

Lumens per Lamp: 4000 (4 lamps)
Luminaire Lumens: 13858.4 lumens
Efficiency: 86.6%
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Circular (Dia: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 240
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	82	82	82	82	71	71	71	71	48	48	48	28	28	28	9	9	9	0
1	75	72	68	66	64	61	59	56	42	40	39	24	23	23	8	8	7	0
2	68	62	58	53	58	53	50	46	37	34	32	21	20	19	7	6	6	0
3	62	55	49	44	53	47	42	38	32	29	27	19	17	16	6	6	5	0
4	57	48	42	37	48	41	36	32	28	25	23	16	15	13	5	5	4	0
5	52	43	36	31	44	37	31	27	25	22	19	15	13	11	5	4	4	0
6	47	38	32	27	40	33	27	23	22	19	17	13	11	10	4	4	3	0
7	44	34	28	23	37	29	24	20	20	17	14	12	10	9	4	3	3	0
8	40	31	24	20	34	26	21	18	18	15	13	11	9	7	3	3	2	0
9	37	28	22	18	32	24	19	15	16	13	11	10	8	7	3	3	2	0
10	35	25	19	16	30	22	17	14	15	12	10	9	7	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°	1.0	0.0	0.0
90°-100°	559.5	4.0	3.5
100°-110°	1703.3	12.3	10.6
110°-120°	2645.6	19.1	16.5
120°-130°	2926.1	21.1	18.3
130°-140°	2499.6	18.0	15.6
140°-150°	1850.4	13.4	11.6
150°-160°	1089.7	7.9	6.8
160°-170°	461.3	3.3	2.9
170°-180°	121.8	0.9	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°	1.0	0.0	0.0
90°-120°	4908.4	35.4	30.7
90°-150°	12184.5	87.9	76.2
90°-180°	13857.0	100.0	86.6
0°-180°	13858.4	100.0	86.6

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	4	0	2	2	50
95°	725	213	536	346	725	704
105°	1626	630	1407	781	1626	1784
115°	2844	1038	2450	1388	2844	2829
125°	3754	1571	3542	1749	3754	3335
135°	3799	1790	3743	1820	3799	2935
145°	3514	1762	3429	1827	3514	2217
155°	2971	1644	2886	1719	2971	1384
165°	1759	1315	1721	1349	1759	533
175°	1267	1203	1228	1218	1267	127
180°	1164	1164	1164	1164	1164	



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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	8	9	5	4	16	17	11	0	0	2
92.5°	363	282	253	201	73	112	186	191	219	161	154
95°	725	652	666	508	213	357	479	503	536	517	528
97.5°	1044	1063	953	826	338	574	722	794	811	874	820
100°	1277	1387	1242	1157	435	855	992	1028	1025	1161	1078
102.5°	1466	1593	1586	1502	510	1133	1268	1347	1192	1392	1403
105°	1626	1857	1995	1756	630	1431	1576	1649	1407	1687	1815
107.5°	1901	2265	2353	1926	750	1631	1899	1944	1683	2046	2166
110°	2259	2598	2795	2076	854	1801	2366	2271	1969	2316	2635



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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°	2488	2908	3130	2191	949	1968	2727	2507	2181	2595	2975
115°	2844	3293	3382	2339	1038	2130	3007	2846	2450	2937	3197
117.5°	3232	3575	3575	2473	1184	2268	3358	3139	2818	3245	3439
120°	3483	3774	3688	2658	1319	2469	3557	3381	3105	3531	3608
122.5°	3657	3884	3758	2848	1452	2608	3580	3603	3352	3745	3717
125°	3754	3944	3756	3008	1571	2719	3540	3845	3542	3947	3700
127.5°	3811	3959	3736	3068	1720	2749	3523	3971	3754	4078	3628
130°	3841	3992	3707	2997	1815	2702	3530	3947	3871	4101	3611
132.5°	3874	3920	3649	2879	1828	2578	3497	3838	3874	3971	3577
135°	3799	3821	3655	2809	1790	2481	3443	3779	3743	3859	3608
137.5°	3732	3723	3677	2717	1792	2400	3430	3741	3672	3777	3599
140°	3638	3599	3700	2575	1809	2311	3453	3617	3622	3662	3620
142.5°	3536	3590	3613	2415	1800	2220	3394	3516	3525	3573	3563
145°	3514	3564	3418	2265	1762	2115	3222	3425	3429	3443	3407
147.5°	3513	3517	3165	2197	1726	2079	2975	3383	3350	3399	3169
150°	3446	3363	2930	2134	1736	2038	2746	3255	3303	3297	2936
152.5°	3249	3111	2646	2024	1719	1948	2480	3007	3158	3073	2661
155°	2971	2835	2342	1889	1644	1824	2210	2718	2886	2786	2358
157.5°	2703	2563	2059	1769	1555	1710	1966	2455	2598	2512	2074
160°	2381	2229	1860	1642	1474	1594	1802	2146	2299	2204	1868
162.5°	2036	1918	1731	1528	1385	1484	1677	1868	1977	1913	1737
165°	1759	1719	1609	1444	1315	1399	1559	1696	1721	1719	1615
167.5°	1612	1579	1493	1372	1275	1331	1450	1557	1575	1576	1499
170°	1476	1451	1390	1306	1234	1274	1355	1430	1441	1445	1395
172.5°	1356	1341	1295	1247	1204	1225	1268	1324	1324	1334	1302
175°	1267	1242	1222	1198	1203	1180	1207	1236	1228	1238	1230
177.5°	1206	1170	1165	1165	1216	1154	1156	1177	1164	1173	1175
180°	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164



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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	8	8	14	2
92.5°	174	185	185	235	270	363
95°	465	346	478	615	672	725
97.5°	753	499	789	917	1039	1044
100°	1054	615	1109	1232	1413	1277
102.5°	1406	712	1398	1547	1865	1466
105°	1658	781	1665	2022	2137	1626
107.5°	1898	906	1950	2450	2376	1901
110°	2181	1086	2181	3068	2788	2259



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2343	1202	2405	3396	3079	2488
115°	2501	1388	2664	3514	3394	2844
117.5°	2625	1558	2792	3724	3627	3232
120°	2708	1661	2934	3763	3813	3483
122.5°	2797	1719	3007	3765	3972	3657
125°	2844	1749	2986	3772	4071	3754
127.5°	2846	1743	2922	3713	4067	3811
130°	2832	1753	2865	3680	4060	3841
132.5°	2782	1800	2783	3605	3993	3874
135°	2709	1820	2687	3650	3927	3799
137.5°	2609	1828	2556	3734	3837	3732
140°	2473	1803	2424	3763	3687	3638
142.5°	2402	1791	2365	3646	3639	3536
145°	2339	1827	2330	3421	3603	3514
147.5°	2270	1871	2285	3179	3546	3513
150°	2173	1863	2190	2964	3378	3446
152.5°	2055	1798	2068	2665	3118	3249
155°	1938	1719	1951	2354	2843	2971
157.5°	1820	1652	1835	2065	2576	2703
160°	1678	1550	1689	1878	2246	2381
162.5°	1538	1438	1553	1751	1938	2036
165°	1450	1349	1459	1633	1754	1759
167.5°	1381	1310	1390	1518	1614	1612
170°	1318	1269	1326	1416	1482	1476
172.5°	1263	1236	1272	1323	1366	1356
175°	1213	1218	1220	1245	1269	1267
177.5°	1177	1206	1179	1184	1193	1206
180°	1164	1164	1164	1164	1164	1164

(END OF REPORT)