

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: 253p157

Luminaire Tested: **1270-44-CFL/4/55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253p157
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1270-44-CFL/4/55
Description: SHAPER 44 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE
Light Source: FOUR 55 WATT GX24 T4 COMPACT FLUORESCENT LAMPS
(4)F55BX/SPX31 - 4800 LUMENS - 55 WATTS
Ballast/Driver: -

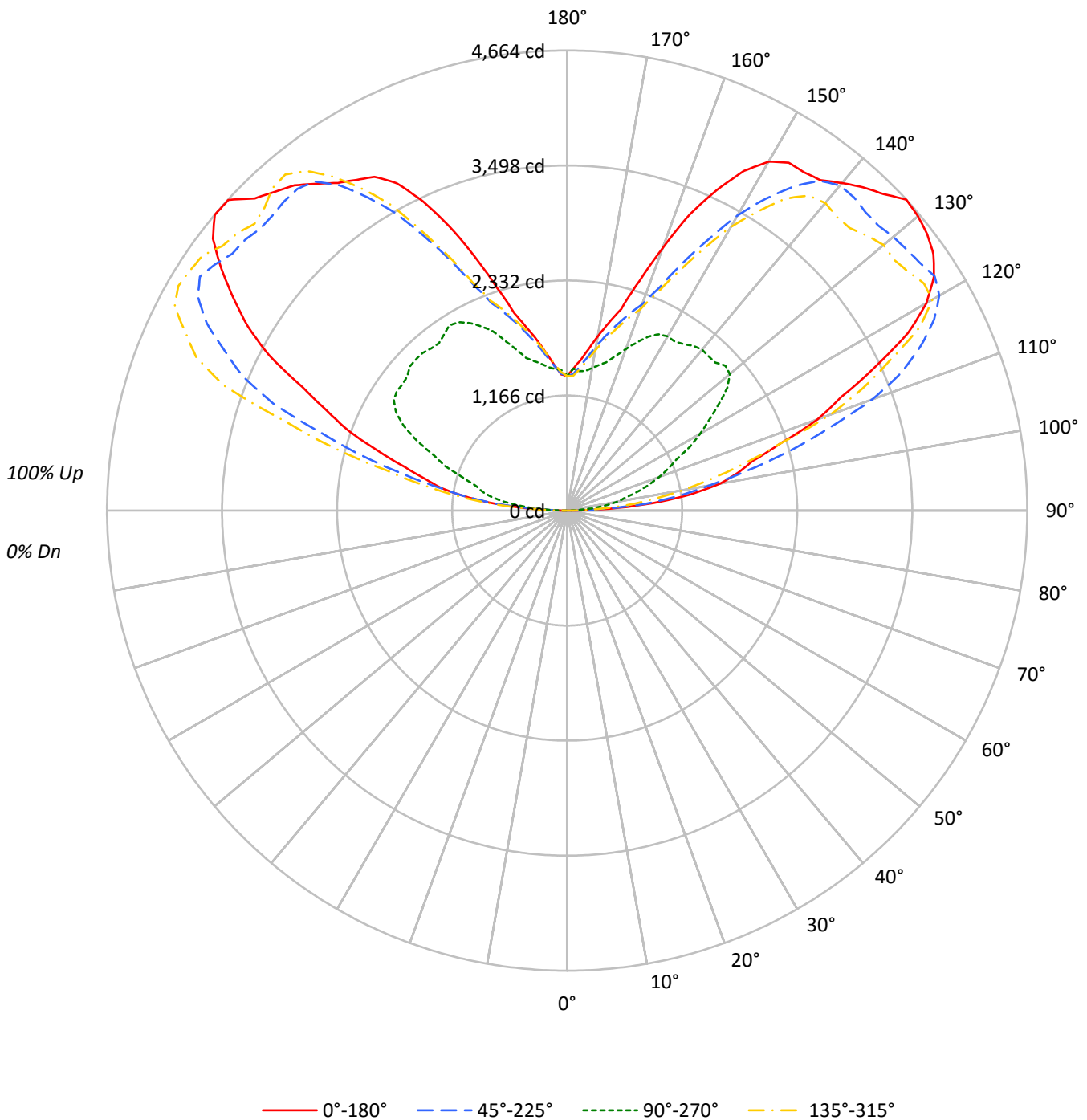
Summary

Lumens per Lamp: 4800 (4 lamps)
Luminaire Lumens: 16559.8 lumens
Efficiency: 86.2%
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Circular (Dia: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 216
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





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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	70	70	70	70	48	48	48	28	28	28	9	9	9	0
1	75	71	68	65	64	61	58	56	42	40	39	24	23	23	8	7	7	0
2	68	62	57	53	58	53	49	46	36	34	32	21	20	19	7	6	6	0
3	62	54	49	44	53	47	42	38	32	29	27	19	17	16	6	6	5	0
4	56	48	42	37	48	41	36	32	28	25	23	16	15	13	5	5	4	0
5	52	42	36	31	44	36	31	27	25	22	19	15	13	11	5	4	4	0
6	47	38	31	27	40	32	27	23	22	19	17	13	11	10	4	4	3	0
7	43	34	28	23	37	29	24	20	20	17	14	12	10	9	4	3	3	0
8	40	30	24	20	34	26	21	18	18	15	12	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	15	29	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°	1.4	0.0	0.0
90°-100°	684.0	4.1	3.6
100°-110°	2041.4	12.3	10.6
110°-120°	3162.2	19.1	16.5
120°-130°	3496.2	21.1	18.2
130°-140°	2970.4	17.9	15.5
140°-150°	2197.0	13.3	11.4
150°-160°	1304.7	7.9	6.8
160°-170°	556.2	3.4	2.9
170°-180°	146.1	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°	1.4	0.0	0.0
90°-120°	5887.7	35.6	30.7
90°-150°	14551.4	87.9	75.8
90°-180°	16558.0	100.0	86.2
0°-180°	16559.8	100.0	86.2

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°	3	6	0	3	3	60
95°	872	250	672	414	872	853
105°	1946	736	1701	949	1946	2146
115°	3441	1219	2958	1682	3441	3413
125°	4533	1872	4279	2108	4533	4026
135°	4536	2122	4475	2167	4536	3514
145°	4186	2059	4053	2178	4186	2640
155°	3580	1944	3456	2060	3580	1656
165°	2114	1560	2070	1600	2114	639
175°	1527	1420	1480	1441	1527	154
180°	1364	1364	1364	1364	1364	



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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°	3	12	15	6	6	24	25	16	0	0	3
92.5°	434	339	332	263	80	142	245	289	278	198	203
95°	872	800	804	618	250	434	589	651	672	649	643
97.5°	1261	1268	1137	985	389	689	869	995	1000	1064	987
100°	1574	1680	1458	1354	512	1018	1190	1275	1284	1436	1298
102.5°	1773	1928	1865	1750	603	1350	1509	1681	1467	1715	1686
105°	1946	2237	2336	2002	736	1712	1875	1980	1701	2065	2159
107.5°	2274	2700	2781	2212	867	1947	2271	2353	2009	2463	2607
110°	2701	3107	3287	2385	991	2136	2836	2736	2352	2799	3168



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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°	3007	3498	3674	2501	1107	2341	3245	3043	2630	3140	3559
115°	3441	3924	3959	2691	1219	2535	3620	3442	2958	3546	3828
117.5°	3894	4270	4194	2869	1401	2703	4029	3768	3405	3919	4121
120°	4205	4489	4355	3080	1555	2921	4275	4050	3739	4221	4318
122.5°	4408	4635	4418	3317	1703	3137	4286	4360	4011	4493	4414
125°	4533	4731	4370	3489	1872	3302	4221	4640	4279	4762	4353
127.5°	4601	4783	4342	3547	2046	3390	4176	4778	4526	4930	4278
130°	4641	4791	4315	3471	2153	3324	4187	4727	4662	4936	4265
132.5°	4664	4666	4277	3349	2175	3181	4123	4584	4659	4753	4224
135°	4536	4546	4277	3228	2122	3054	4050	4498	4475	4629	4226
137.5°	4443	4424	4305	3106	2122	2940	4041	4424	4384	4510	4248
140°	4333	4305	4301	2951	2128	2814	4071	4267	4302	4364	4255
142.5°	4220	4273	4213	2786	2105	2676	4022	4149	4175	4238	4203
145°	4186	4250	4013	2637	2059	2557	3861	4051	4053	4106	4024
147.5°	4180	4166	3749	2588	2030	2507	3593	3999	3974	4027	3764
150°	4084	3997	3454	2521	2038	2456	3319	3864	3906	3903	3481
152.5°	3880	3724	3097	2415	2015	2354	2986	3615	3741	3658	3131
155°	3580	3421	2763	2269	1944	2216	2673	3294	3456	3344	2793
157.5°	3251	3046	2446	2128	1844	2082	2387	2945	3118	2997	2475
160°	2830	2661	2225	1982	1744	1937	2172	2587	2737	2632	2237
162.5°	2443	2308	2087	1846	1644	1806	2036	2265	2373	2304	2097
165°	2114	2078	1949	1739	1560	1701	1900	2042	2070	2077	1957
167.5°	1946	1919	1816	1652	1512	1616	1770	1883	1902	1915	1824
170°	1794	1768	1689	1569	1468	1537	1648	1733	1751	1759	1695
172.5°	1646	1629	1566	1487	1427	1465	1530	1593	1604	1616	1574
175°	1527	1501	1463	1420	1420	1406	1434	1476	1480	1490	1470
177.5°	1441	1399	1384	1371	1442	1367	1366	1387	1382	1392	1390
180°	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364



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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°	9	3	12	13	21	3
92.5°	236	216	221	304	384	434
95°	575	414	577	744	848	872
97.5°	909	610	955	1103	1279	1261
100°	1265	766	1354	1478	1734	1574
102.5°	1688	877	1699	1872	2273	1773
105°	1940	949	2050	2442	2502	1946
107.5°	2259	1102	2390	2981	2852	2274
110°	2570	1312	2646	3697	3345	2701



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2779	1460	2925	4070	3725	3007
115°	2950	1682	3195	4269	4057	3441
117.5°	3100	1872	3352	4484	4363	3894
120°	3214	2005	3497	4552	4592	4205
122.5°	3311	2082	3607	4530	4780	4408
125°	3364	2108	3609	4508	4879	4533
127.5°	3342	2103	3589	4404	4881	4601
130°	3308	2116	3521	4369	4850	4641
132.5°	3252	2162	3412	4300	4755	4664
135°	3146	2167	3279	4339	4640	4536
137.5°	3023	2167	3110	4426	4531	4443
140°	2882	2145	2969	4445	4360	4333
142.5°	2814	2136	2889	4338	4307	4220
145°	2760	2178	2823	4130	4276	4186
147.5°	2698	2224	2744	3866	4203	4180
150°	2605	2204	2644	3582	4034	4084
152.5°	2478	2144	2512	3194	3760	3880
155°	2351	2060	2383	2843	3454	3580
157.5°	2186	1967	2215	2504	3077	3251
160°	2019	1829	2046	2262	2696	2830
162.5°	1858	1708	1886	2124	2343	2443
165°	1743	1600	1772	1986	2108	2114
167.5°	1660	1552	1686	1854	1949	1946
170°	1581	1511	1604	1728	1797	1794
172.5°	1506	1467	1526	1602	1650	1646
175°	1440	1441	1455	1493	1520	1527
177.5°	1388	1427	1398	1404	1410	1441
180°	1364	1364	1364	1364	1364	1364

(END OF REPORT)