

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: 253P234

Luminaire Tested: **1215-XX-36-CFL/6/50-T5C/1/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P234
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1215-XX-36-CFL/6/50-T5C/1/40
Description: SHAPER 36 INCH 1215 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH SHALLOW BOWL
Light Source: SIX 50 WATT BIAx COMPACT FLUORESCENT LAMPS AND ONE 40 WATT T5 CIRCLINE
(6)F50BX - 4000 LUMENS AND (1)TL5C40W/830 - 3300 LUMENS
Ballast/Driver: -

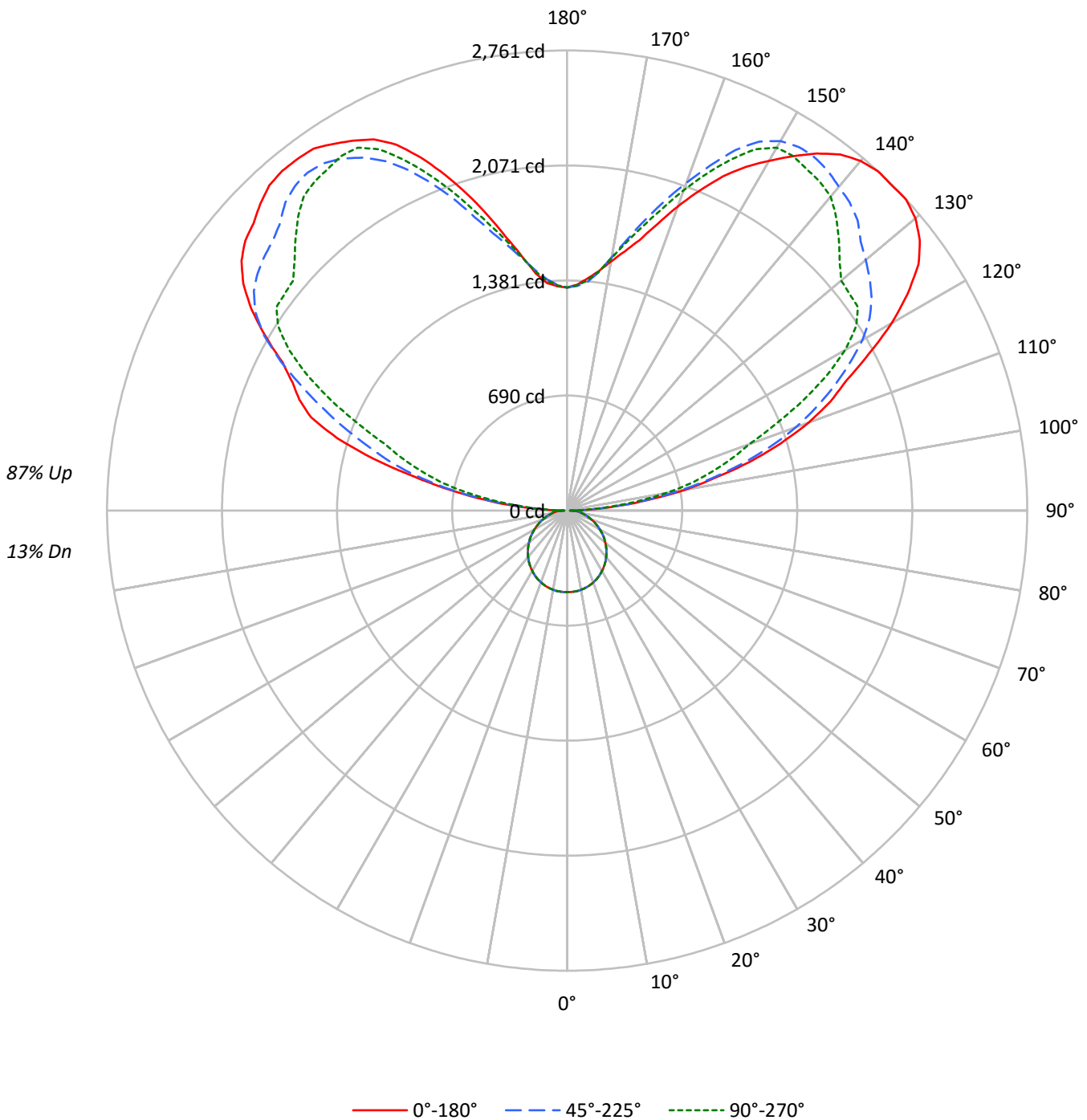
Summary

Lumens per Lamp: 27300 (1 lamp)
Luminaire Lumens: 11914.8 lumens
Efficiency: 43.6%
Efficacy: 277.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 0.52')
CIE Type: Semi-Indirect

Input Watts (W): 43
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	43	43	43	43	37	37	37	37	27	27	27	18	18	18	10	10	10	6
1	39	37	35	34	34	32	31	30	24	23	22	16	15	15	8	8	8	4
2	35	32	30	28	31	28	26	24	21	19	18	14	13	12	7	7	7	4
3	32	28	25	23	28	25	22	20	18	17	15	12	11	10	6	6	5	3
4	29	25	22	19	26	22	19	17	16	14	13	11	10	9	6	5	5	3
5	27	22	19	16	23	19	17	15	14	12	11	9	8	7	5	4	4	2
6	25	20	16	14	21	17	15	12	13	11	9	9	7	6	5	4	4	2
7	23	18	14	12	20	16	13	11	11	10	8	8	6	6	4	4	3	2
8	21	16	13	11	18	14	11	9	10	9	7	7	6	5	4	3	3	2
9	19	14	11	9	17	13	10	8	9	8	6	6	5	4	3	3	2	1
10	18	13	10	8	16	12	9	7	9	7	6	6	5	4	3	3	2	1

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	745	745	745
5°	732	732	732
10°	719	719	719
15°	704	704	704
20°	688	688	688
25°	672	672	672
30°	652	652	652
35°	633	633	633
40°	610	610	610
45°	587	587	587
50°	561	561	561
55°	533	533	533
60°	500	500	500
65°	464	464	464
70°	427	427	427
75°	390	390	390
80°	354	354	354
85°	322	322	322



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	46.4	0.4	0.2
10°-20°	133.5	1.1	0.5
20°-30°	203.1	1.7	0.7
30°-40°	245.8	2.1	0.9
40°-50°	256.7	2.2	0.9
50°-60°	235.8	2.0	0.9
60°-70°	188.3	1.6	0.7
70°-80°	128.2	1.1	0.5
80°-90°	68.1	0.6	0.2
90°-100°	328.8	2.8	1.2
100°-110°	1111.4	9.3	4.1
110°-120°	1720.9	14.4	6.3
120°-130°	2018.8	16.9	7.4
130°-140°	1906.8	16.0	7.0
140°-150°	1604.0	13.5	5.9
150°-160°	1071.5	9.0	3.9
160°-170°	509.9	4.3	1.9
170°-180°	137.0	1.1	0.5
0°-30°	382.9	3.2	1.4
0°-40°	628.7	5.3	2.3
0°-60°	1121.2	9.4	4.1
0°-90°	1505.7	12.6	5.5
90°-120°	3161.2	26.5	11.6
90°-150°	8690.8	72.9	31.8
90°-180°	10409.0	87.4	38.1
0°-180°	11914.8	100.0	43.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	489	489	489	489	489	
5°	488	488	488	488	488	46
15°	473	473	473	473	473	133
25°	441	441	441	441	441	203
35°	393	393	393	393	393	246
45°	333	333	333	333	333	257
55°	264	264	264	264	264	236
65°	190	190	190	190	190	188
75°	121	121	121	121	121	128
85°	65	65	65	65	65	58
90°	19	18	13	17	19	29
95°	293	282	248	283	313	328
105°	1139	1086	896	1075	1204	1194
115°	1849	1768	1560	1751	1818	1856
125°	2574	2230	2129	2295	2372	2273
135°	2757	2464	2305	2437	2603	2132
145°	2615	2588	2503	2545	2652	1639
155°	2213	2386	2323	2254	2422	1025
165°	1679	1805	1769	1723	1831	488
175°	1397	1375	1384	1393	1370	137
180°	1338	1338	1338	1338	1338	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	489	489	489	489	489	489	489	489	489
2.5°	489	489	489	489	489	489	489	489	489
5°	488	488	488	488	488	488	488	488	488
7.5°	486	486	486	486	486	486	486	486	486
10°	483	483	483	483	483	483	483	483	483
12.5°	478	478	478	478	478	478	478	478	478
15°	473	473	473	473	473	473	473	473	473
17.5°	466	466	466	466	466	466	466	466	466
20°	459	459	459	459	459	459	459	459	459
22.5°	450	450	450	450	450	450	450	450	450
25°	441	441	441	441	441	441	441	441	441
27.5°	430	430	430	430	430	430	430	430	430
30°	418	418	418	418	418	418	418	418	418
32.5°	406	406	406	406	406	406	406	406	406
35°	393	393	393	393	393	393	393	393	393
37.5°	379	379	379	379	379	379	379	379	379
40°	364	364	364	364	364	364	364	364	364
42.5°	349	349	349	349	349	349	349	349	349
45°	333	333	333	333	333	333	333	333	333
47.5°	316	316	316	316	316	316	316	316	316
50°	299	299	299	299	299	299	299	299	299
52.5°	282	282	282	282	282	282	282	282	282
55°	264	264	264	264	264	264	264	264	264
57.5°	245	245	245	245	245	245	245	245	245
60°	227	227	227	227	227	227	227	227	227
62.5°	208	208	208	208	208	208	208	208	208
65°	190	190	190	190	190	190	190	190	190
67.5°	172	172	172	172	172	172	172	172	172
70°	154	154	154	154	154	154	154	154	154
72.5°	137	137	137	137	137	137	137	137	137
75°	121	121	121	121	121	121	121	121	121
77.5°	105	105	105	105	105	105	105	105	105
80°	91	91	91	91	91	91	91	91	91
82.5°	77	77	77	77	77	77	77	77	77
85°	65	65	65	65	65	65	65	65	65
87.5°	54	54	54	54	54	54	54	54	54
90°	19	15	18	18	13	18	17	16	19
92.5°	118	100	109	126	112	119	107	100	125
95°	293	269	282	304	248	283	283	263	313
97.5°	493	457	478	494	426	486	477	456	503
100°	720	660	683	695	600	702	691	654	711
102.5°	911	855	883	903	763	894	890	842	938
105°	1139	1022	1086	1133	896	1098	1075	1017	1204
107.5°	1345	1160	1281	1351	1034	1278	1227	1188	1447
110°	1541	1315	1460	1533	1161	1465	1399	1353	1635



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	1709	1493	1616	1668	1351	1637	1573	1529	1739
115°	1849	1685	1768	1790	1560	1799	1751	1710	1818
117.5°	2045	1866	1909	1920	1756	1994	1936	1869	1925
120°	2250	2013	2046	2073	1925	2183	2099	2000	2089
122.5°	2422	2121	2153	2203	2056	2332	2218	2100	2245
125°	2574	2180	2230	2305	2129	2444	2295	2165	2372
127.5°	2667	2206	2288	2379	2136	2515	2341	2204	2463
130°	2728	2223	2339	2431	2147	2562	2372	2242	2521
132.5°	2760	2256	2389	2471	2217	2592	2395	2303	2552
135°	2757	2321	2464	2533	2305	2610	2437	2386	2603
137.5°	2761	2407	2509	2579	2389	2642	2504	2441	2646
140°	2739	2468	2536	2601	2460	2648	2542	2482	2660
142.5°	2693	2502	2570	2614	2489	2630	2557	2523	2659
145°	2615	2514	2588	2618	2503	2583	2545	2548	2652
147.5°	2521	2503	2587	2596	2523	2511	2505	2563	2609
150°	2423	2466	2560	2561	2514	2432	2445	2547	2563
152.5°	2326	2391	2496	2502	2444	2343	2363	2478	2511
155°	2213	2280	2386	2404	2323	2232	2254	2360	2422
157.5°	2078	2152	2240	2266	2188	2101	2126	2212	2292
160°	1943	2013	2091	2117	2045	1964	1990	2064	2144
162.5°	1802	1869	1949	1968	1899	1823	1846	1925	1990
165°	1679	1745	1805	1818	1769	1699	1723	1789	1831
167.5°	1592	1639	1665	1670	1650	1607	1625	1658	1676
170°	1517	1536	1543	1544	1538	1523	1531	1541	1545
172.5°	1448	1452	1440	1436	1446	1450	1453	1443	1433
175°	1397	1390	1375	1373	1384	1395	1393	1379	1370
177.5°	1357	1355	1349	1348	1353	1357	1356	1351	1347
180°	1338	1338	1338	1338	1338	1338	1338	1338	1338

(END OF REPORT)