

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: 253P235

Luminaire Tested: **1215-XX-36-CFL/3/55-T5C/1/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P235
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1215-XX-36-CFL/3/55-T5C/1/40
Description: SHAPER 36 INCH 1215 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH SHALLOW BOWL
Light Source: THREE 55 WATT BIAx COMPACT FLUORESCENT LAMPS AND ONE 40 WATT T5 CIRCLINE
(3)F55BX - 4800 LUMENS AND (1)TL5C40W/830 - 3300 LUMENS
Ballast/Driver: -

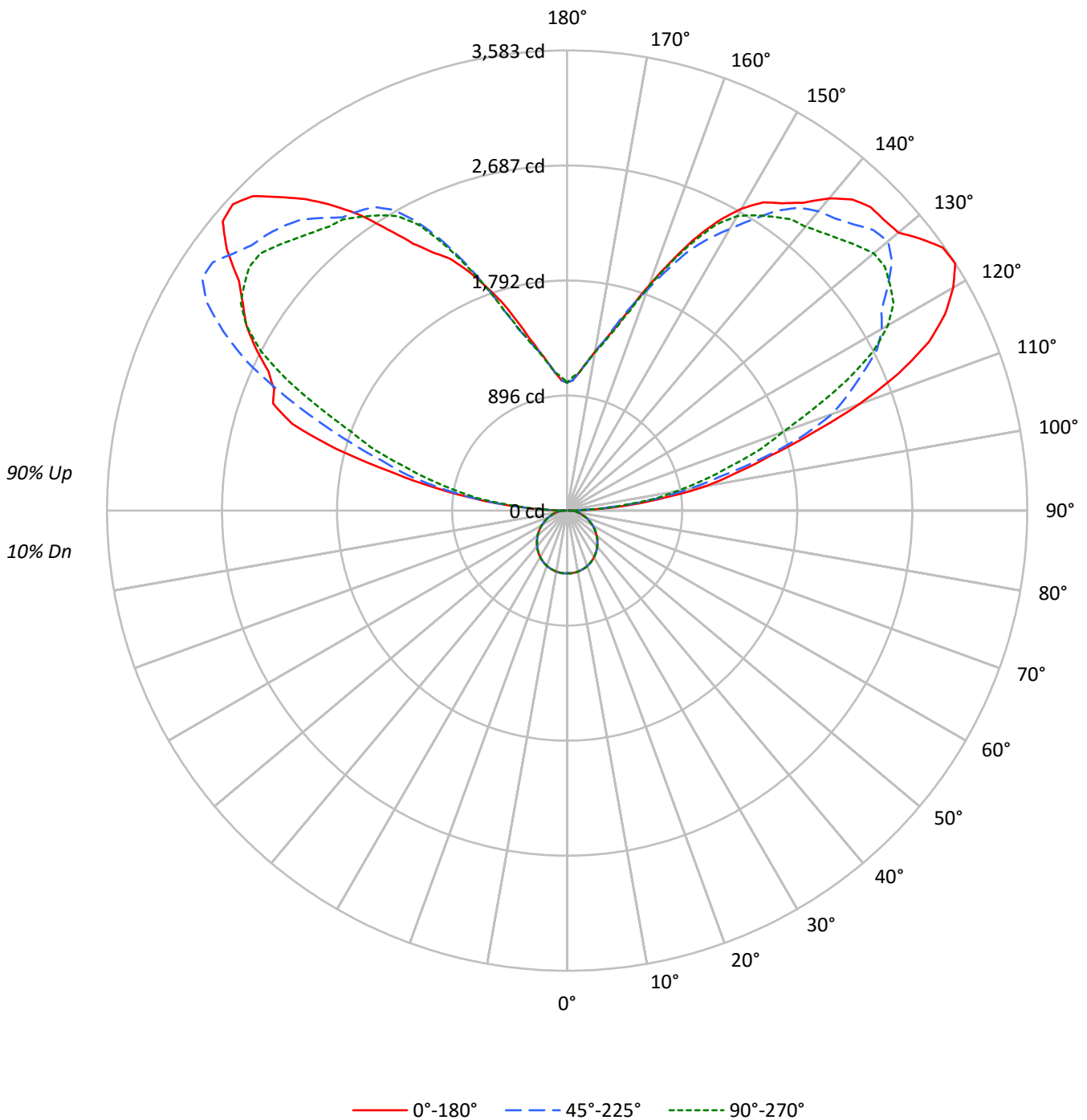
Summary

Lumens per Lamp: 17700 (1 lamp)
Luminaire Lumens: 14892.9 lumens
Efficiency: 84.1%
Efficacy: 346.3 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	82	82	82	82	71	71	71	71	51	51	51	33	33	33	16	16	16	9
1	75	71	68	65	65	62	59	57	45	43	42	29	28	27	14	14	13	7
2	68	62	57	53	59	54	50	47	39	36	34	25	24	22	12	12	11	6
3	62	54	49	44	53	47	43	39	34	31	29	22	20	19	11	10	9	5
4	56	48	42	37	49	42	37	33	30	27	24	20	18	16	10	9	8	4
5	52	42	36	31	45	37	32	28	27	23	21	17	15	14	9	8	7	3
6	47	38	31	27	41	33	28	24	24	20	18	16	13	12	8	7	6	3
7	44	34	28	23	38	30	24	21	22	18	15	14	12	10	7	6	5	3
8	40	31	24	20	35	27	22	18	20	16	13	13	11	9	6	5	5	2
9	37	28	22	18	32	24	19	16	18	14	12	12	10	8	6	5	4	2
10	35	25	19	16	30	22	17	14	16	13	11	11	9	7	5	4	4	2

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	0.3	0.3
10°-20°	133.5	0.9	0.8
20°-30°	203.1	1.4	1.1
30°-40°	245.8	1.7	1.4
40°-50°	256.7	1.7	1.5
50°-60°	235.8	1.6	1.3
60°-70°	188.3	1.3	1.1
70°-80°	128.2	0.9	0.7
80°-90°	67.3	0.5	0.4
90°-100°	487.9	3.3	2.8
100°-110°	1625.9	10.9	9.2
110°-120°	2591.8	17.4	14.6
120°-130°	2854.4	19.2	16.1
130°-140°	2444.3	16.4	13.8
140°-150°	1782.6	12.0	10.1
150°-160°	1055.1	7.1	6.0
160°-170°	437.4	2.9	2.5
170°-180°	108.7	0.7	0.6
0°-30°	382.9	2.6	2.2
0°-40°	628.7	4.2	3.6
0°-60°	1121.2	7.5	6.3
0°-90°	1504.9	10.1	8.5
90°-120°	4705.6	31.6	26.6
90°-150°	11786.9	79.1	66.6
90°-180°	13388.0	89.9	75.6
0°-180°	14892.9	100.0	84.1

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°	22	7	10	15	7	42
95°	482	399	397	439	459	516
105°	1627	1573	1298	1488	1864	1773
115°	3109	2542	2404	2758	2567	3013
125°	3570	3049	3068	3370	3119	3152
135°	3342	3152	2994	3131	3462	2566
145°	2920	2850	2793	2843	2808	1848
155°	2324	2226	2301	2326	2165	1081
165°	1483	1508	1470	1463	1538	438
175°	1079	1078	1080	1081	1078	109
180°	996	996	996	996	996	



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CATALOG NUMBER: 1215-XX-36-CFL/3/55-T5C/1/40

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°	22	12	7	7	10	18	15	7	7
92.5°	208	151	137	168	182	210	171	130	156
95°	482	408	399	452	397	464	439	374	459
97.5°	762	692	681	726	671	755	728	652	736
100°	1099	933	967	1025	864	1052	996	910	1070
102.5°	1345	1201	1218	1322	1079	1306	1267	1133	1417
105°	1627	1410	1573	1714	1298	1556	1488	1437	1864
107.5°	1992	1683	1912	2065	1571	1875	1776	1756	2246
110°	2419	1949	2197	2290	1783	2244	2089	2053	2437



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	2797	2259	2370	2398	2077	2604	2423	2288	2470
115°	3109	2593	2542	2550	2404	2925	2758	2513	2567
117.5°	3319	2861	2722	2731	2688	3168	3016	2714	2732
120°	3470	3084	2829	2856	2884	3362	3239	2821	2884
122.5°	3583	3220	2901	2947	3013	3487	3369	2899	2993
125°	3570	3239	3049	3080	3068	3471	3370	3031	3119
127.5°	3474	3199	3187	3267	3119	3373	3284	3135	3340
130°	3367	3149	3261	3383	3116	3285	3211	3166	3501
132.5°	3348	3101	3233	3384	3056	3266	3176	3113	3531
135°	3342	3042	3152	3305	2994	3250	3131	3034	3462
137.5°	3286	2983	3086	3192	2937	3188	3071	2992	3310
140°	3173	2904	3041	3098	2886	3079	2974	2973	3164
142.5°	3022	2837	2973	2982	2860	2953	2876	2942	2994
145°	2920	2812	2850	2829	2793	2887	2843	2847	2808
147.5°	2846	2770	2686	2640	2726	2832	2803	2717	2592
150°	2714	2682	2532	2471	2648	2715	2702	2590	2401
152.5°	2538	2525	2387	2336	2509	2543	2536	2444	2266
155°	2324	2314	2226	2206	2301	2330	2326	2254	2165
157.5°	2086	2084	2023	2032	2072	2098	2094	2029	2021
160°	1863	1847	1832	1852	1852	1865	1856	1825	1859
162.5°	1658	1629	1667	1691	1637	1653	1637	1647	1707
165°	1483	1458	1508	1525	1470	1475	1463	1490	1538
167.5°	1359	1343	1361	1373	1344	1355	1348	1350	1381
170°	1259	1251	1255	1260	1251	1257	1254	1251	1262
172.5°	1162	1159	1161	1167	1158	1161	1160	1159	1164
175°	1079	1080	1078	1090	1080	1079	1081	1078	1078
177.5°	1016	1017	1015	1028	1043	1016	1017	1015	1014
180°	996	996	996	996	996	996	996	996	996

(END OF REPORT)