

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: 253P218

Luminaire Tested: **1240-OB-44-CFL/4/50**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P218
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1240-OB-44-CFL/4/50
Description: SHAPER 44 INCH 1240 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH OPEN BOTTOM
Light Source: FOUR - F50BX/SPX41 - 4000 LUMENS - 50 WATTS
Ballast/Driver: -

Summary

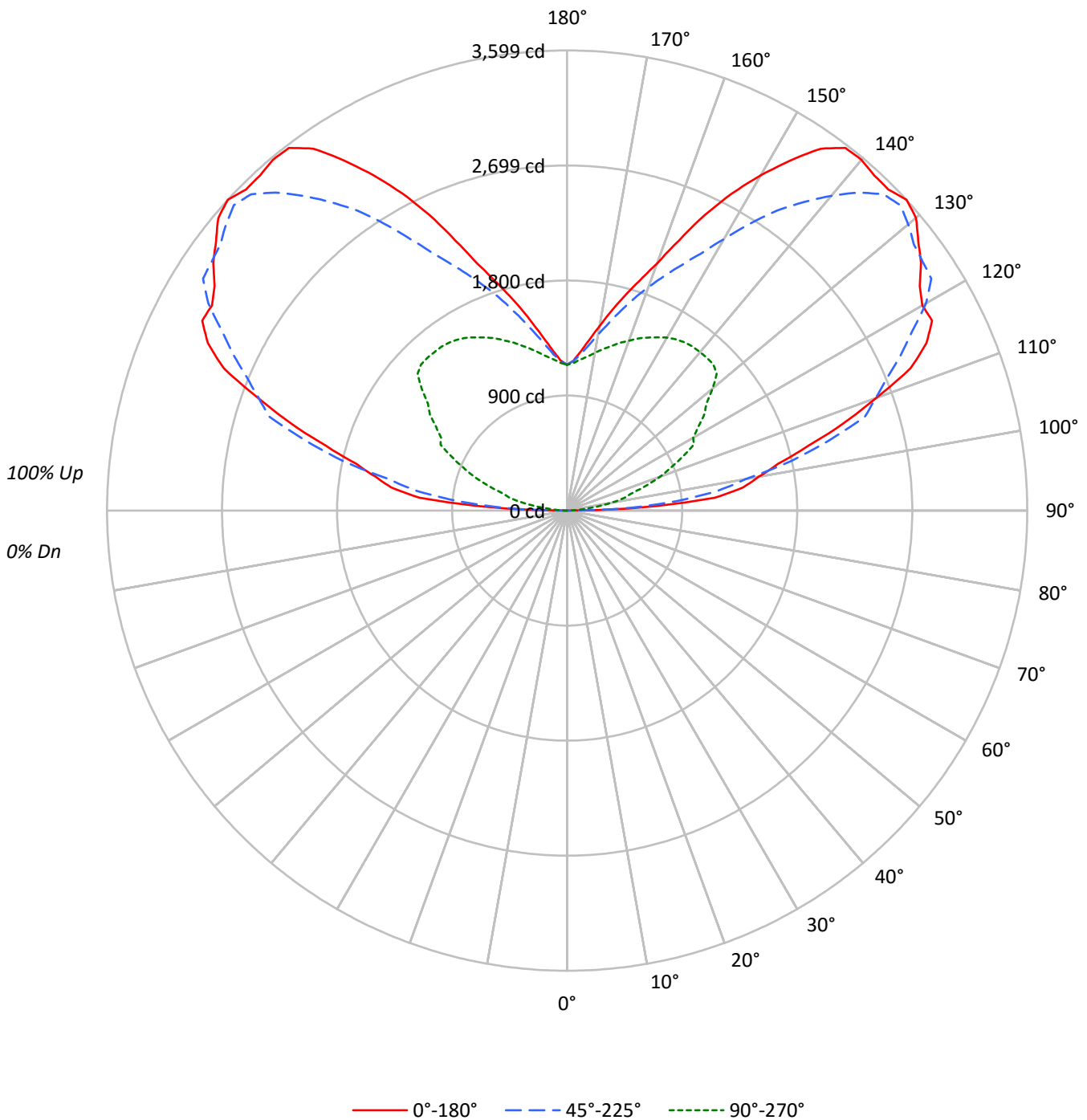
Lumens per Lamp: 4000 (4 lamps)
Luminaire Lumens: 13382.8 lumens
Efficiency: 83.6%
Efficacy: 54.8 lumens/watt
N/A
Luminous Opening: Circular (Dia: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 244
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	80	80	80	80	68	68	68	68	46	46	46	27	27	27	9	9	9	0
1	72	69	66	63	62	59	57	55	40	39	38	23	23	22	7	7	7	0
2	66	60	56	52	56	52	48	45	35	33	31	20	19	18	7	6	6	0
3	60	53	47	43	51	45	41	37	31	28	26	18	17	15	6	5	5	0
4	55	47	41	36	47	40	35	31	27	24	22	16	14	13	5	5	4	0
5	50	41	35	30	42	35	30	26	24	21	19	14	12	11	5	4	4	0
6	46	37	30	26	39	31	26	23	22	18	16	13	11	10	4	4	3	0
7	42	33	27	22	36	28	23	20	19	16	14	11	10	8	4	3	3	0
8	39	30	24	20	33	25	20	17	18	14	12	10	8	7	3	3	2	0
9	36	27	21	17	31	23	18	15	16	13	11	9	8	6	3	2	2	0
10	33	24	19	15	28	21	16	13	14	11	9	8	7	6	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	13544	10094	1404
100°	8935	8330	2072
105°	7676	8354	2060
110°	7660	7648	2298
115°	7480	6942	2405
120°	6540	6608	2322
125°	6004	6032	2328
130°	5649	5524	2357
135°	5121	5043	2330
140°	4765	4277	2152
145°	4300	3564	1997
150°	3563	2885	1839
155°	2870	2382	1679
160°	2229	2017	1534
165°	1834	1704	1405
170°	1516	1446	1296
175°	1281	1256	1213



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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°	0.0	0.0	0.0
90°-100°	787.7	5.9	4.9
100°-110°	1852.2	13.8	11.6
110°-120°	2535.6	18.9	15.8
120°-130°	2623.4	19.6	16.4
130°-140°	2329.2	17.4	14.6
140°-150°	1699.4	12.7	10.6
150°-160°	977.8	7.3	6.1
160°-170°	455.7	3.4	2.8
170°-180°	122.0	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°	0.0	0.0	0.0
90°-120°	5175.4	38.7	32.3
90°-150°	11827.5	88.4	73.9
90°-180°	13383.0	100.0	83.6
0°-180°	13382.8	100.0	83.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	4	28	20	9	5	
95°	1158	1126	863	507	120	1062
105°	1949	2158	2121	1505	523	2098
115°	3101	3245	2878	2163	997	3002
125°	3378	3553	3394	2422	1310	3023
135°	3552	3644	3498	2332	1616	2765
145°	3455	3390	2864	2076	1605	2140
155°	2552	2448	2118	1765	1493	1191
165°	1738	1727	1615	1450	1331	503
175°	1252	1252	1227	1213	1185	126
180°	1140	1140	1140	1140	1140	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	4	28	20	9	5
92.5°	593	678	498	242	39
95°	1158	1126	863	507	120
97.5°	1387	1391	1189	786	233
100°	1522	1538	1419	1102	353
102.5°	1689	1774	1795	1330	455
105°	1949	2158	2121	1505	523
107.5°	2264	2467	2441	1725	647
110°	2570	2837	2566	1915	771
112.5°	2907	3106	2706	2017	880
115°	3101	3245	2878	2163	997
117.5°	3218	3280	3043	2317	1116
120°	3208	3334	3241	2386	1139
122.5°	3269	3451	3377	2415	1214
125°	3378	3553	3394	2422	1310
127.5°	3461	3658	3419	2470	1371
130°	3562	3702	3483	2484	1486
132.5°	3599	3657	3535	2421	1586
135°	3552	3644	3498	2332	1616
137.5°	3555	3670	3373	2257	1620
140°	3581	3680	3214	2195	1617
142.5°	3575	3580	3042	2135	1615
145°	3455	3390	2864	2076	1605
147.5°	3245	3175	2659	2000	1587
150°	3027	2952	2451	1926	1562
152.5°	2797	2714	2266	1846	1528
155°	2552	2448	2118	1765	1493
157.5°	2286	2210	1985	1685	1457
160°	2055	2019	1859	1604	1414
162.5°	1884	1868	1737	1527	1375
165°	1738	1727	1615	1450	1331
167.5°	1599	1588	1500	1380	1293
170°	1465	1460	1397	1313	1252
172.5°	1350	1345	1305	1256	1215
175°	1252	1252	1227	1213	1185
177.5°	1175	1178	1173	1169	1156
180°	1140	1140	1140	1140	1140

(END OF REPORT)