

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: 253P216

Luminaire Tested: **1200-OB-44-CFL/4/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P216
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1200-OB-44-CFL/4/40
Description: SHAPER 44 INCH 1200 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH OPEN BOTTOM
Light Source: FOUR - F40BX/SPX35 - 3150 LUMENS - 40 WATTS
Ballast/Driver: -

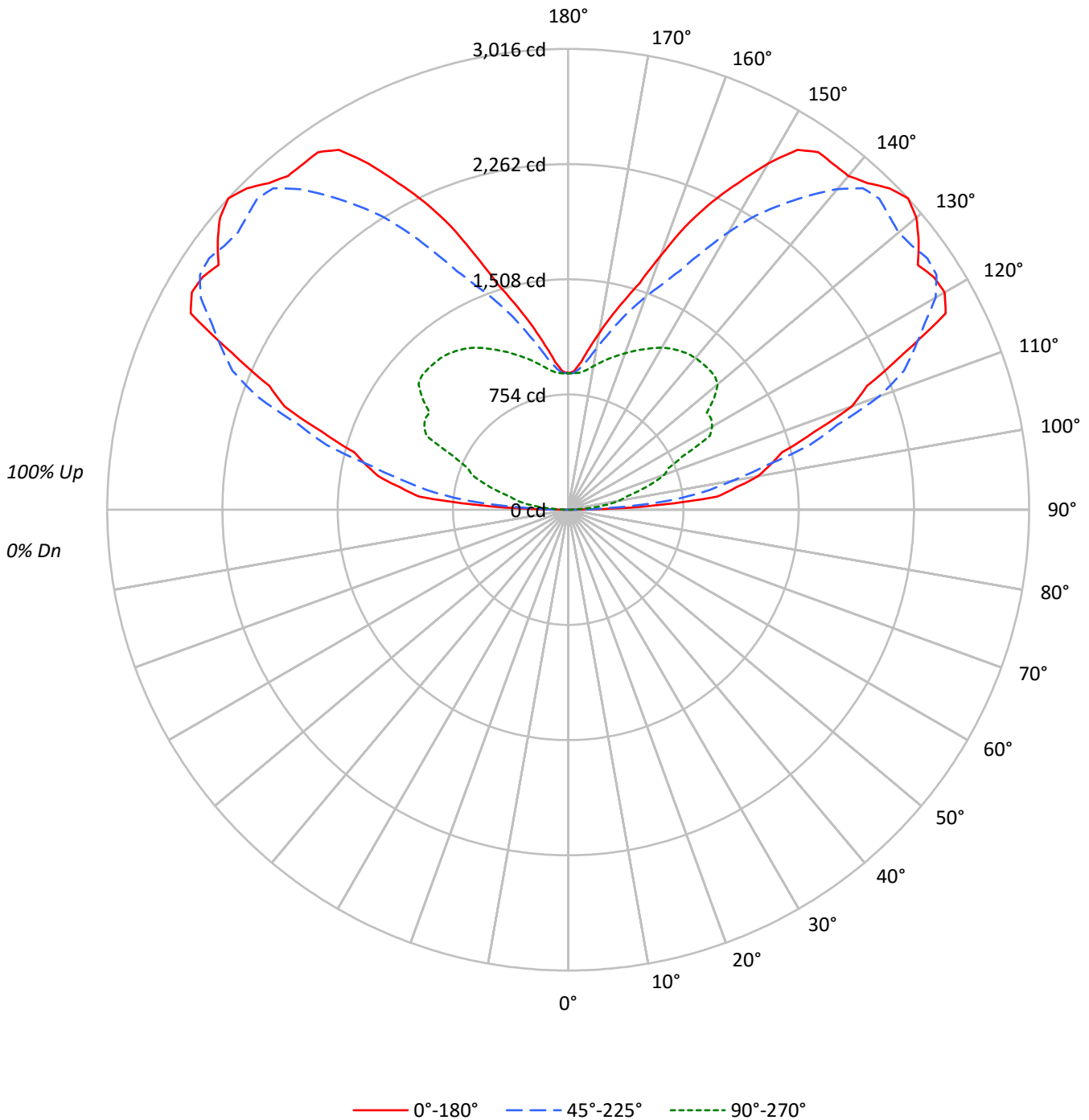
Summary

Lumens per Lamp: 3150 (4 lamps)
Luminaire Lumens: 11010.0 lumens
Efficiency: 87.4%
Efficacy: 68.8 lumens/watt
N/A
Luminous Opening: Circular (Dia: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 160
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	83	83	83	83	71	71	71	71	49	49	49	28	28	28	9	9	9	0
1	76	72	69	66	65	62	59	57	42	41	39	24	24	23	8	8	7	0
2	69	63	58	54	59	54	50	47	37	35	33	21	20	19	7	7	6	0
3	63	55	49	45	53	47	43	39	32	30	27	19	17	16	6	6	5	0
4	57	49	42	38	49	42	37	33	29	25	23	17	15	14	5	5	4	0
5	52	43	37	32	44	37	32	28	25	22	20	15	13	12	5	4	4	0
6	48	38	32	27	41	33	28	24	23	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	41	31	25	20	35	27	21	18	18	15	13	11	9	8	3	3	2	0
9	38	28	22	18	32	24	19	16	17	13	11	10	8	7	3	3	2	0
10	35	25	20	16	30	22	17	14	15	12	10	9	7	6	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	11439	7579	1860
100°	7391	6399	1996
105°	5703	6440	1898
110°	5883	6450	2003
115°	5849	6033	1990
120°	5798	5658	2218
125°	4964	5099	1967
130°	4716	4475	2027
135°	4287	4149	1876
140°	3795	3645	1725
145°	3554	3034	1580
150°	3080	2468	1442
155°	2497	1938	1301
160°	1916	1609	1182
165°	1494	1339	1080
170°	1216	1111	987
175°	994	956	922



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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°	605.0	5.5	4.8
100°-110°	1460.4	13.3	11.6
110°-120°	2130.5	19.4	16.9
120°-130°	2228.0	20.2	17.7
130°-140°	1918.8	17.4	15.2
140°-150°	1406.3	12.8	11.2
150°-160°	808.4	7.3	6.4
160°-170°	359.1	3.3	2.8
170°-180°	93.6	0.9	0.7
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°	4195.9	38.1	33.3
90°-150°	9748.9	88.5	77.4
90°-180°	11010.0	100.0	87.4
0°-180°	11010.0	100.0	87.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	1	2	3	1	1	
95°	978	953	648	272	159	877
105°	1448	1634	1635	1244	482	1611
115°	2425	2733	2501	1827	825	2409
125°	2793	2935	2869	2154	1107	2562
135°	2974	2965	2878	1962	1301	2287
145°	2856	2860	2438	1666	1270	1766
155°	2220	2114	1723	1389	1157	1033
165°	1416	1369	1269	1108	1023	414
175°	971	959	934	911	901	99
180°	892	892	892	892	892	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	1	2	3	1	1
92.5°	507	605	293	53	39
95°	978	953	648	272	159
97.5°	1105	1113	898	540	262
100°	1259	1293	1090	792	340
102.5°	1354	1454	1319	1059	385
105°	1448	1634	1635	1244	482
107.5°	1683	1943	1846	1436	582
110°	1974	2150	2164	1584	672
112.5°	2116	2378	2378	1660	709
115°	2425	2733	2501	1827	825
117.5°	2784	2834	2627	2034	1045
120°	2844	2846	2775	2168	1088
122.5°	2835	2843	2857	2135	1110
125°	2793	2935	2869	2154	1107
127.5°	2890	3031	2836	2167	1205
130°	2974	3076	2822	2129	1278
132.5°	3016	3043	2847	2051	1299
135°	2974	2965	2878	1962	1301
137.5°	2899	2910	2854	1870	1299
140°	2852	2906	2739	1790	1296
142.5°	2850	2914	2592	1725	1287
145°	2856	2860	2438	1666	1270
147.5°	2792	2695	2282	1600	1250
150°	2617	2505	2097	1533	1225
152.5°	2411	2314	1902	1461	1192
155°	2220	2114	1723	1389	1157
157.5°	2008	1880	1591	1317	1124
160°	1766	1659	1483	1244	1090
162.5°	1554	1491	1375	1174	1055
165°	1416	1369	1269	1108	1023
167.5°	1293	1254	1165	1044	989
170°	1175	1145	1073	994	954
172.5°	1067	1044	991	946	923
175°	971	959	934	911	901
177.5°	908	903	896	892	893
180°	892	892	892	892	892

(END OF REPORT)