

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: 253P220

Luminaire Tested: **1200-OB-44-CFL/4/55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P220
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1200-OB-44-CFL/4/55
Description: SHAPER 44 INCH 1200 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH OPEN BOTTOM
Light Source: FOUR - F55BX/3K - 4800 LUMENS - 55 WATTS
Ballast/Driver: -

Summary

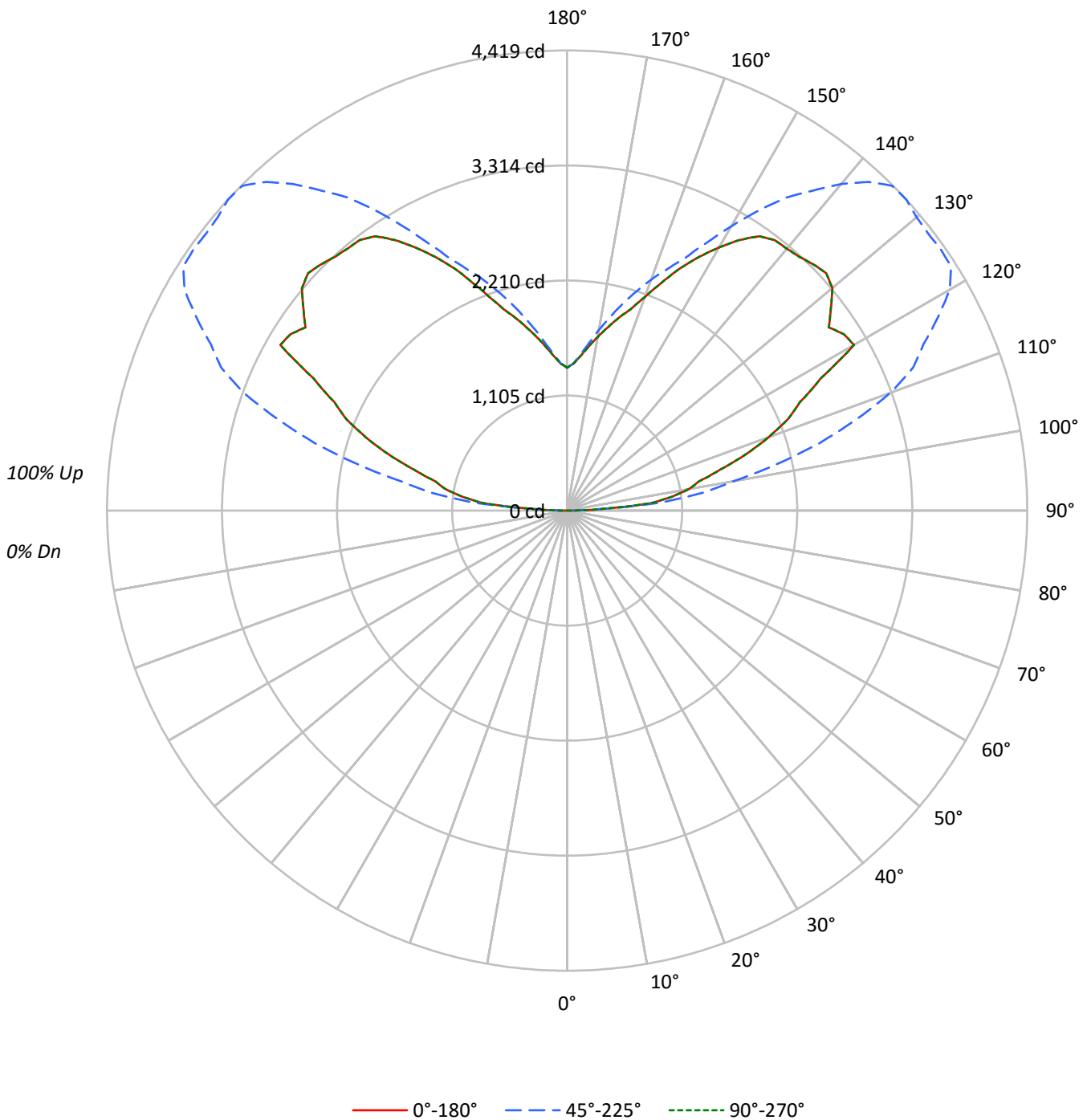
Lumens per Lamp: 4800 (4 lamps)
Luminaire Lumens: 16914.8 lumens
Efficiency: 88.1%
Efficacy: 70.5 lumens/watt
N/A
Luminous Opening: Circular (Dia: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 240
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													
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10										
RCR																														
0	84	84	84	84	72	72	72	72	49	49	49	28	28	28	9	9	9	0												
1	76	73	70	67	65	62	60	57	43	41	40	25	24	23	8	8	7	0												
2	69	63	59	54	59	54	50	47	37	35	33	21	20	19	7	7	6	0												
3	63	56	50	45	54	48	43	39	33	30	27	19	17	16	6	6	5	0												
4	58	49	43	38	49	42	37	33	29	26	23	17	15	14	5	5	5	0												
5	53	43	37	32	45	37	32	28	26	22	20	15	13	12	5	4	4	0												
6	48	39	32	27	41	33	28	24	23	19	17	13	11	10	4	4	3	0												
7	44	35	28	24	38	30	24	21	21	17	15	12	10	9	4	3	3	0												
8	41	31	25	21	35	27	22	18	19	15	13	11	9	8	3	3	3	0												
9	38	28	22	18	32	24	19	16	17	13	11	10	8	7	3	3	2	0												
10	35	26	20	16	30	22	17	14	15	12	10	9	7	6	3	2	2	0												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	9450	10714	9450
100°	6968	9510	6968
105°	6006	9890	6006
110°	6128	9845	6128
115°	5955	9106	5955
120°	6485	8646	6485
125°	5453	7779	5453
130°	5271	6948	5271
135°	4821	6360	4821
140°	4367	5445	4367
145°	4002	4566	4002
150°	3432	3709	3432
155°	2886	3006	2886
160°	2367	2561	2367
165°	2022	2168	2022
170°	1753	1822	1753
175°	1526	1541	1526



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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°	864.5	5.1	4.5
100°-110°	2258.2	13.4	11.8
110°-120°	3256.6	19.3	17.0
120°-130°	3438.2	20.3	17.9
130°-140°	2969.0	17.6	15.5
140°-150°	2160.2	12.8	11.3
150°-160°	1244.3	7.4	6.5
160°-170°	573.4	3.4	3.0
170°-180°	150.5	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°	6379.3	37.7	33.2
90°-150°	14946.7	88.4	77.8
90°-180°	16915.0	100.0	88.1
0°-180°	16914.8	100.0	88.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	8	7	9	8	8	
95°	808	909	916	919	808	739
105°	1525	2213	2511	2298	1525	1649
115°	2469	3317	3775	3422	2469	2506
125°	3068	3838	4377	3943	3068	2839
135°	3344	3785	4412	3848	3344	2581
145°	3216	3465	3669	3481	3216	1994
155°	2566	2688	2673	2696	2566	1194
165°	1916	1994	2054	2006	1916	551
175°	1491	1498	1506	1502	1491	149
180°	1372	1372	1372	1372	1372	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	8	7	9	8	8
92.5°	302	316	280	347	302
95°	808	909	916	919	808
97.5°	1009	1269	1309	1302	1009
100°	1187	1580	1620	1625	1187
102.5°	1298	1837	2063	1924	1298
105°	1525	2213	2511	2298	1525
107.5°	1803	2585	2911	2664	1803
110°	2056	2857	3303	2972	2056
112.5°	2295	3096	3599	3223	2295
115°	2469	3317	3775	3422	2469
117.5°	2744	3763	4013	3713	2744
120°	3181	3789	4241	3933	3181
122.5°	3151	3734	4370	3913	3151
125°	3068	3838	4377	3943	3068
127.5°	3193	3935	4370	4032	3193
130°	3324	3955	4381	4030	3324
132.5°	3374	3872	4419	3941	3374
135°	3344	3785	4412	3848	3344
137.5°	3304	3708	4280	3776	3304
140°	3282	3665	4092	3715	3282
142.5°	3274	3605	3873	3634	3274
145°	3216	3465	3669	3481	3216
147.5°	3081	3289	3413	3302	3081
150°	2916	3104	3151	3117	2916
152.5°	2747	2908	2898	2919	2747
155°	2566	2688	2673	2696	2566
157.5°	2366	2477	2508	2487	2366
160°	2182	2279	2361	2294	2182
162.5°	2026	2129	2205	2141	2026
165°	1916	1994	2054	2006	1916
167.5°	1802	1858	1903	1868	1802
170°	1694	1731	1760	1736	1694
172.5°	1589	1609	1626	1614	1589
175°	1491	1498	1506	1502	1491
177.5°	1412	1415	1414	1416	1412
180°	1372	1372	1372	1372	1372

(END OF REPORT)