

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: 253P221

Luminaire Tested: **1200-OB-44-CFL/8/55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P221
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1200-OB-44-CFL/8/55
Description: SHAPER 44 INCH 1200 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH OPEN BOTTOM
Light Source: EIGHT - F55BX/3K - 4800 LUMENS - 55 WATTS
Ballast/Driver: -

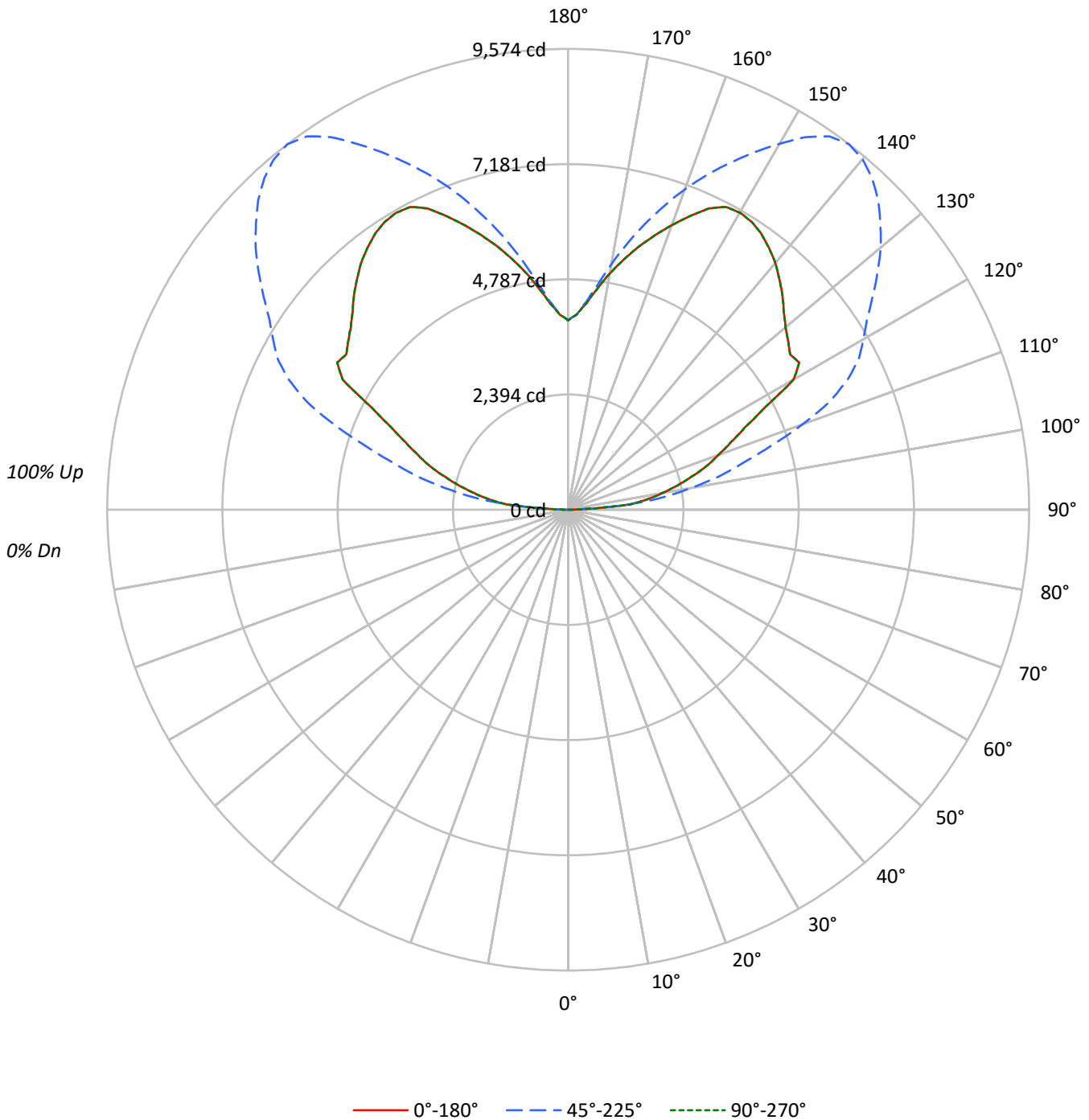
Summary

Lumens per Lamp: 4800 (8 lamps)
Luminaire Lumens: 33737.0 lumens
Efficiency: 87.9%
Efficacy: 71.5 lumens/watt
N/A
Luminous Opening: Circular (Dia: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 472
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	69	67	65	62	60	57	42	41	40	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	50	45	54	48	43	39	33	30	27	19	17	16	6	6	5	0													
4	57	49	43	38	49	42	37	33	29	26	23	17	15	14	5	5	4	0													
5	53	43	37	32	45	37	32	28	26	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	24	38	30	24	21	20	17	15	12	10	9	4	3	3	0													
8	41	31	25	21	35	27	21	18	18	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	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°	15205	15041	15205
100°	11653	15240	11653
105°	10461	14809	10461
110°	9880	15445	9880
115°	9774	15452	9774
120°	11024	14430	11024
125°	9999	13720	9999
130°	9349	13440	9349
135°	9074	13123	9074
140°	8905	12651	8905
145°	8706	11782	8706
150°	8390	10334	8390
155°	7769	8940	7769
160°	6822	7683	6822
165°	5966	6481	5966
170°	5158	5363	5158
175°	4402	4438	4402



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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°	1333.3	4.0	3.5
100°-110°	3670.7	10.9	9.6
110°-120°	5509.5	16.3	14.3
120°-130°	6360.0	18.9	16.6
130°-140°	6083.7	18.0	15.8
140°-150°	5170.6	15.3	13.5
150°-160°	3473.9	10.3	9.0
160°-170°	1698.2	5.0	4.4
170°-180°	437.2	1.3	1.1
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°	10513.4	31.2	27.4
90°-150°	28127.7	83.4	73.2
90°-180°	33737.0	100.0	87.9
0°-180°	33737.0	100.0	87.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	27	33	14	15	27	
95°	1300	1405	1286	1431	1300	1179
105°	2656	3755	3760	3783	2656	2810
115°	4052	5763	6406	5894	4052	4124
125°	5626	7438	7720	7571	5626	5093
135°	6294	7945	9103	8184	6294	4861
145°	6996	8261	9468	8435	6996	4368
155°	6907	7546	7948	7607	6907	3172
165°	5653	5909	6141	5941	5653	1619
175°	4302	4321	4337	4336	4302	433
180°	3936	3936	3936	3936	3936	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	27	33	14	15	27
92.5°	372	387	333	455	372
95°	1300	1405	1286	1431	1300
97.5°	1655	1984	1999	2061	1655
100°	1985	2559	2596	2641	1985
102.5°	2322	3173	3215	3214	2322
105°	2656	3755	3760	3783	2656
107.5°	3015	4229	4413	4256	3015
110°	3315	4693	5182	4714	3315
112.5°	3656	5195	5883	5281	3656
115°	4052	5763	6406	5894	4052
117.5°	4601	6617	6807	6571	4601
120°	5407	7069	7078	7160	5407
122.5°	5688	7199	7355	7438	5688
125°	5626	7438	7720	7571	5626
127.5°	5757	7577	8099	7742	5757
130°	5895	7678	8475	7906	5895
132.5°	6073	7821	8796	8065	6073
135°	6294	7945	9103	8184	6294
137.5°	6493	8079	9343	8301	6493
140°	6692	8168	9507	8373	6692
142.5°	6851	8239	9574	8430	6851
145°	6996	8261	9468	8435	6996
147.5°	7091	8229	9179	8386	7091
150°	7128	8133	8779	8260	7128
152.5°	7091	7908	8368	7996	7091
155°	6907	7546	7948	7607	6907
157.5°	6600	7144	7526	7197	6600
160°	6289	6734	7082	6786	6289
162.5°	5972	6327	6614	6368	5972
165°	5653	5909	6141	5941	5653
167.5°	5322	5484	5662	5509	5322
170°	4983	5079	5181	5090	4983
172.5°	4633	4685	4720	4696	4633
175°	4302	4321	4337	4336	4302
177.5°	4060	4061	4062	4072	4060
180°	3936	3936	3936	3936	3936

(END OF REPORT)