

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: 253P219

Luminaire Tested: **1240-OB-44-CFL/8/50**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P219
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1240-OB-44-CFL/8/50
Description: SHAPER 44 INCH 1240 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH OPEN BOTTOM
Light Source: EIGHT - F50BX/SPX41 - 4000 LUMENS - 50 WATTS
Ballast/Driver: -

Summary

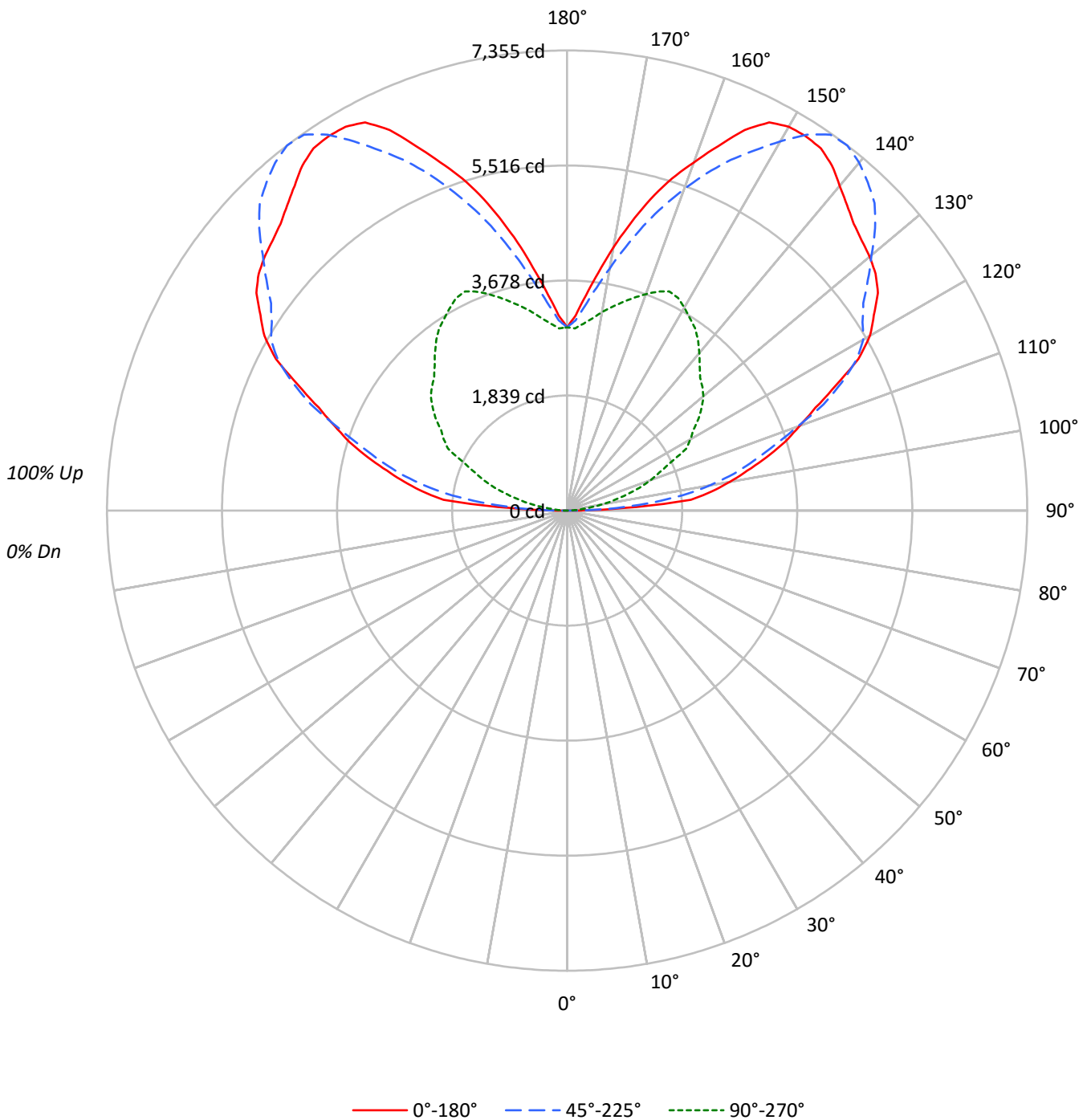
Lumens per Lamp: 4000 (8 lamps)
Luminaire Lumens: 26186.8 lumens
Efficiency: 81.8%
Efficacy: 52.4 lumens/watt
N/A
Luminous Opening: Circular (Dia: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 500
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	78	78	78	78	67	67	67	67	45	45	45	26	26	26	8	8	8	0
1	71	68	65	62	60	58	55	53	40	38	37	23	22	21	7	7	7	0
2	64	59	54	51	55	50	47	44	35	32	30	20	19	18	6	6	6	0
3	59	52	46	42	50	44	40	36	30	28	25	18	16	15	6	5	5	0
4	54	46	40	35	46	39	34	31	27	24	22	16	14	13	5	5	4	0
5	49	40	34	30	42	35	30	26	24	21	18	14	12	11	4	4	4	0
6	45	36	30	25	38	31	26	22	21	18	16	12	11	9	4	3	3	0
7	41	32	26	22	35	28	23	19	19	16	14	11	9	8	4	3	3	0
8	38	29	23	19	32	25	20	17	17	14	12	10	8	7	3	3	2	0
9	35	26	21	17	30	22	18	15	16	13	10	9	7	6	3	2	2	0
10	33	24	18	15	28	20	16	13	14	11	9	8	7	5	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	23228	14842	2246
100°	15498	13590	3305
105°	13001	12190	3864
110°	11776	11660	4229
115°	11433	11679	4409
120°	11397	11142	4640
125°	10777	10269	4557
130°	10010	10072	4509
135°	9342	10021	4331
140°	9020	9660	4374
145°	8796	9129	4433
150°	8340	8021	4407
155°	7549	6954	4346
160°	6425	5930	3993
165°	5438	4970	3642
170°	4425	4072	3333
175°	3533	3360	3068



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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°	1241.1	4.7	3.9
100°-110°	2949.5	11.3	9.2
110°-120°	4233.9	16.2	13.2
120°-130°	4846.3	18.5	15.1
130°-140°	4641.2	17.7	14.5
140°-150°	3967.2	15.1	12.4
150°-160°	2677.7	10.2	8.4
160°-170°	1300.2	5.0	4.1
170°-180°	329.7	1.3	1.0
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°	8424.5	32.2	26.3
90°-150°	21879.3	83.6	68.4
90°-180°	26187.0	100.0	81.8
0°-180°	26186.8	100.0	81.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	10	50	40	31	13	
95°	1986	1838	1269	775	192	1778
105°	3301	3463	3095	2544	981	3485
115°	4740	5066	4842	3954	1828	4718
125°	6064	6499	5778	5148	2564	5386
135°	6480	6950	6951	5364	3004	5036
145°	7068	7385	7336	5428	3562	4402
155°	6712	6670	6183	5031	3864	3085
165°	5153	5058	4709	4024	3451	1479
175°	3453	3399	3284	3131	2998	355
180°	2928	2928	2928	2928	2928	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	10	50	40	31	13
92.5°	892	944	680	354	74
95°	1986	1838	1269	775	192
97.5°	2326	2257	1853	1193	358
100°	2640	2652	2315	1621	563
102.5°	2950	3039	2736	2105	771
105°	3301	3463	3095	2544	981
107.5°	3649	3815	3473	2921	1206
110°	3951	4148	3912	3211	1419
112.5°	4298	4575	4434	3548	1596
115°	4740	5066	4842	3954	1828
117.5°	5248	5563	5212	4345	2147
120°	5590	5891	5465	4630	2276
122.5°	5812	6237	5599	4904	2390
125°	6064	6499	5778	5148	2564
127.5°	6216	6654	6061	5324	2712
130°	6312	6728	6351	5360	2843
132.5°	6388	6816	6678	5335	2932
135°	6480	6950	6951	5364	3004
137.5°	6621	7081	7113	5419	3135
140°	6778	7246	7259	5465	3287
142.5°	6954	7368	7355	5473	3436
145°	7068	7385	7336	5428	3562
147.5°	7096	7365	7124	5385	3648
150°	7085	7287	6814	5335	3744
152.5°	6995	7053	6489	5235	3834
155°	6712	6670	6183	5031	3864
157.5°	6303	6263	5836	4779	3788
160°	5923	5892	5466	4524	3681
162.5°	5564	5490	5095	4270	3568
165°	5153	5058	4709	4024	3451
167.5°	4710	4622	4312	3789	3335
170°	4275	4180	3934	3551	3220
172.5°	3836	3755	3593	3325	3100
175°	3453	3399	3284	3131	2998
177.5°	3122	3097	3041	2976	2915
180°	2928	2928	2928	2928	2928

(END OF REPORT)