

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: 253P217

Luminaire Tested: **1200-OB-44-CFL/8/40**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 253P217  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 1200-OB-44-CFL/8/40  
Description: SHAPER 44 INCH 1200 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE  
WITH OPEN BOTTOM  
Light Source: EIGHT - F40BX/SPX35 - 3150 LUMENS - 40 WATTS  
Ballast/Driver: -

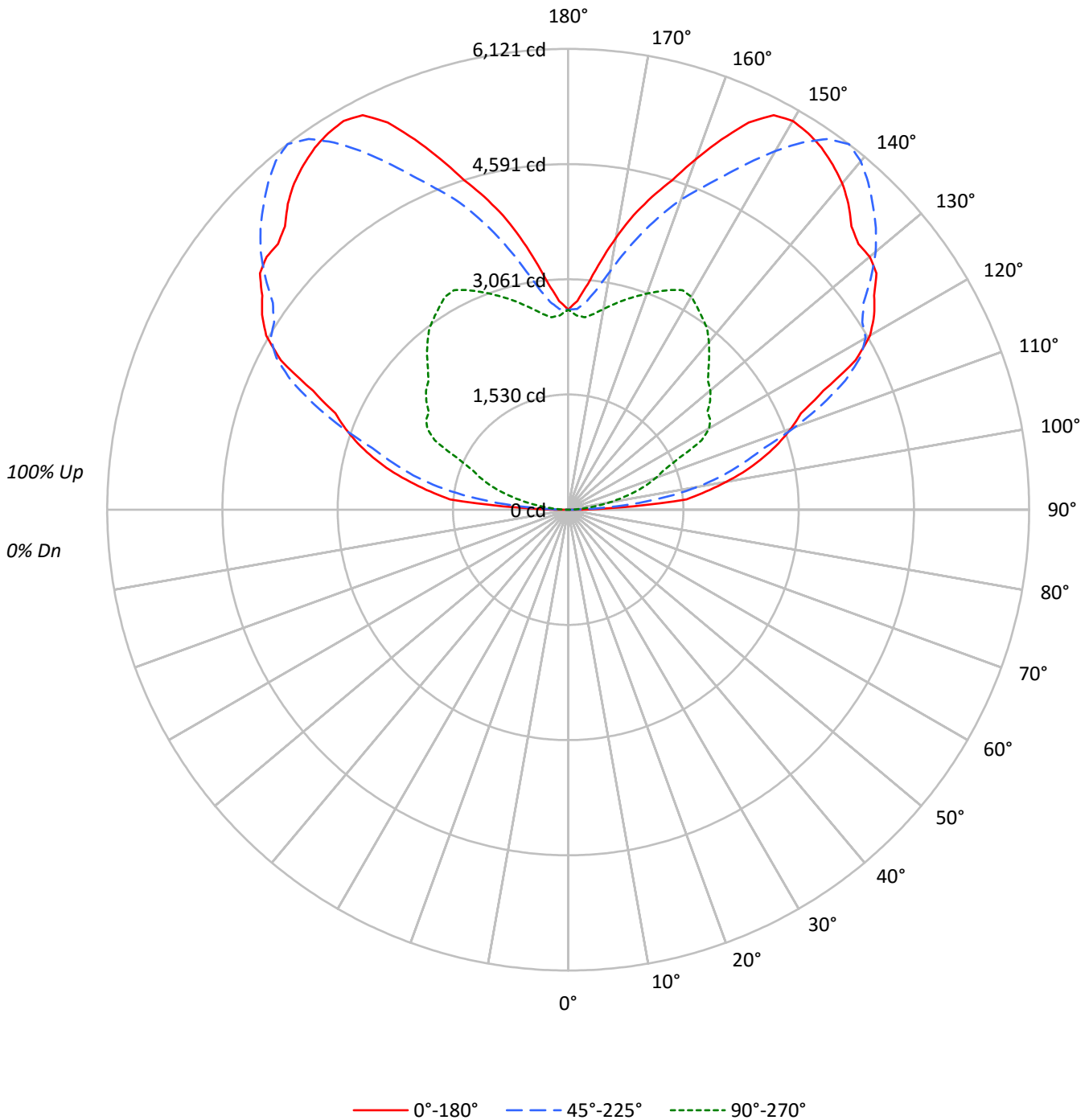
**Summary**

Lumens per Lamp: 3150 (8 lamps)  
Luminaire Lumens: 21445.1 lumens  
Efficiency: 85.1%  
Efficacy: 67.9 lumens/watt  
N/A  
Luminous Opening: Circular (Dia: 3.67' x H: 0')  
CIE Type: Indirect

Input Watts (W): 316  
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	81	81	81	81	69	69	69	69	47	47	47	27	27	27	9	9	9	0
1	74	70	67	64	63	60	58	56	41	40	38	24	23	22	8	7	7	0
2	67	61	57	53	57	52	49	45	36	34	32	21	20	19	7	6	6	0
3	61	54	48	44	52	46	41	38	32	29	27	18	17	16	6	5	5	0
4	56	47	41	37	47	41	36	32	28	25	22	16	15	13	5	5	4	0
5	51	42	36	31	43	36	31	27	25	22	19	14	13	11	5	4	4	0
6	47	37	31	26	40	32	27	23	22	19	16	13	11	10	4	4	3	0
7	43	33	27	23	36	29	24	20	20	17	14	12	10	8	4	3	3	0
8	40	30	24	20	34	26	21	17	18	15	12	10	9	7	3	3	2	0
9	37	27	21	17	31	23	19	15	16	13	11	9	8	6	3	3	2	0
10	34	25	19	15	29	21	17	13	15	12	9	9	7	6	3	2	2	0

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
95°	18445	9918	2480
100°	12492	10285	3252
105°	10563	9488	3604
110°	9380	9532	3711
115°	9021	9788	3912
120°	9437	9299	4408
125°	8815	8509	4009
130°	8289	8451	3908
135°	7668	8248	3791
140°	7534	8043	3870
145°	7302	7480	3870
150°	7020	6474	3848
155°	6382	5501	3622
160°	5373	4755	3313
165°	4539	4020	3045
170°	3801	3329	2802
175°	3080	2836	2626



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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°	906.6	4.2	3.6
100°-110°	2377.7	11.1	9.4
110°-120°	3507.2	16.4	13.9
120°-130°	4032.1	18.8	16.0
130°-140°	3829.4	17.9	15.2
140°-150°	3271.8	15.3	13.0
150°-160°	2182.3	10.2	8.7
160°-170°	1059.1	4.9	4.2
170°-180°	279.0	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°	6791.5	31.7	27.0
90°-150°	17924.8	83.6	71.1
90°-180°	21445.0	100.0	85.1
0°-180°	21445.1	100.0	85.1

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
90°	8	9	9	8	6	
95°	1577	1445	848	365	212	1410
105°	2682	2817	2409	2057	915	2819
115°	3740	4183	4058	3342	1622	3780
125°	4960	5333	4788	4313	2256	4450
135°	5319	5627	5721	4464	2630	4157
145°	5868	5985	6011	4486	3110	3669
155°	5674	5434	4891	4042	3220	2602
165°	4301	4099	3809	3253	2885	1237
175°	3010	2910	2771	2643	2566	309
180°	2656	2656	2656	2656	2656	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
90°	8	9	9	8	6
92.5°	688	744	338	68	64
95°	1577	1445	848	365	212
97.5°	1845	1785	1324	788	372
100°	2128	2153	1752	1206	554
102.5°	2425	2514	2105	1636	733
105°	2682	2817	2409	2057	915
107.5°	2928	3087	2729	2401	1090
110°	3147	3307	3198	2627	1245
112.5°	3345	3635	3648	2916	1369
115°	3740	4183	4058	3342	1622
117.5°	4301	4566	4369	3713	1998
120°	4629	4825	4561	4018	2162
122.5°	4818	5089	4629	4164	2234
125°	4960	5333	4788	4313	2256
127.5°	5159	5420	5067	4398	2374
130°	5227	5404	5329	4414	2464
132.5°	5225	5464	5541	4432	2518
135°	5319	5627	5721	4464	2630
137.5°	5509	5763	5896	4481	2772
140°	5662	5860	6044	4492	2908
142.5°	5773	5934	6121	4487	3029
145°	5868	5985	6011	4486	3110
147.5°	5930	6002	5784	4471	3187
150°	5964	5970	5500	4401	3269
152.5°	5908	5767	5194	4236	3287
155°	5674	5434	4891	4042	3220
157.5°	5322	5067	4625	3842	3138
160°	4953	4700	4383	3643	3054
162.5°	4587	4377	4104	3446	2968
165°	4301	4099	3809	3253	2885
167.5°	4004	3788	3510	3067	2795
170°	3672	3477	3216	2901	2707
172.5°	3332	3179	2956	2751	2623
175°	3010	2910	2771	2643	2566
177.5°	2775	2729	2669	2616	2581
180°	2656	2656	2656	2656	2656

(END OF REPORT)