

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: 253p158

Luminaire Tested: **1270-44-CFL/8/55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253p158
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1270-44-CFL/8/55
Description: SHAPER 44 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE
Light Source: EIGHT 55 WATT GX24 T5 COMPACT FLUORESCENT LAMPS
(8)F55BX/SPX31 - 4800 LUMENS - 55 WATTS
Ballast/Driver: -

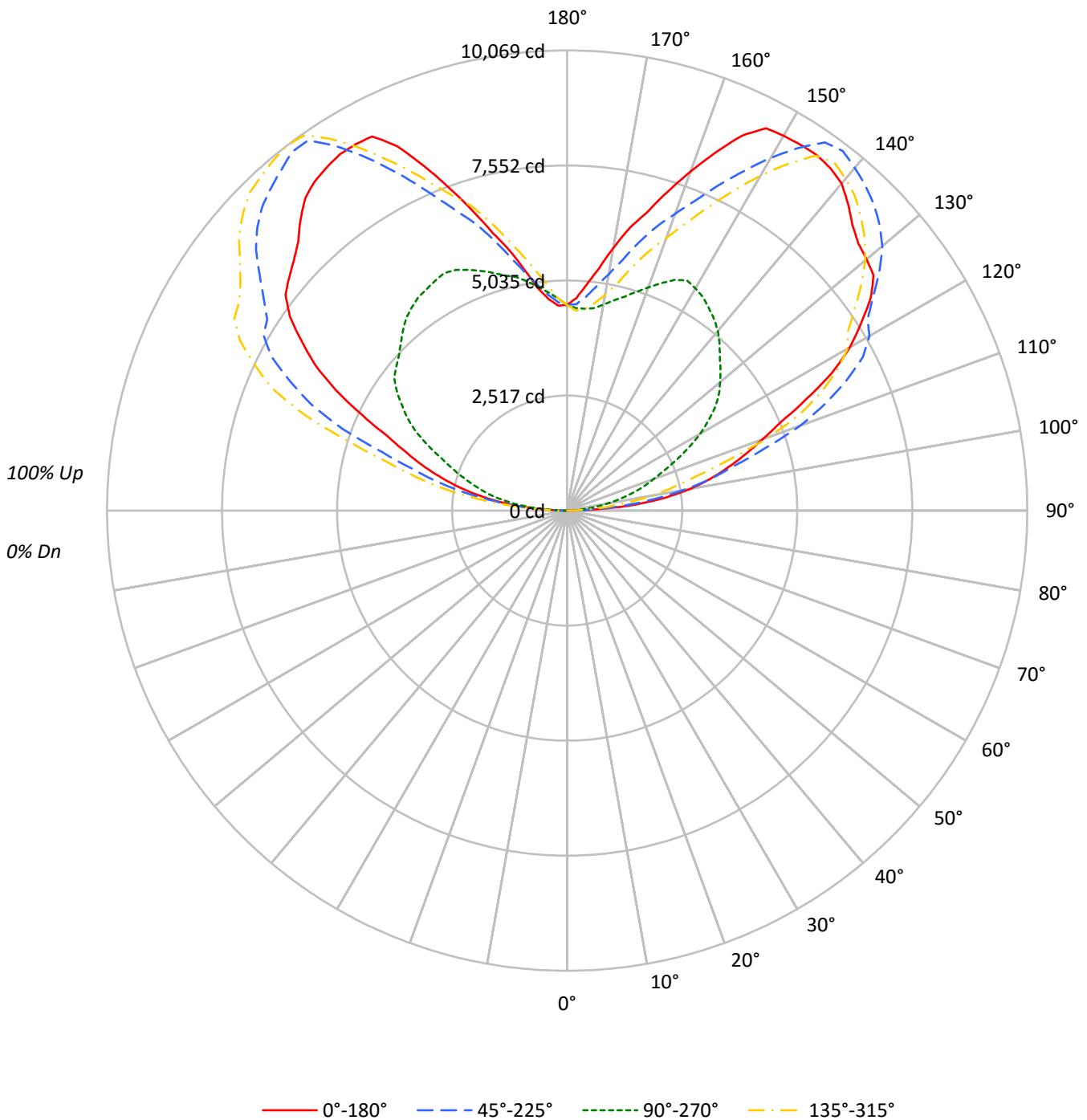
Summary

Lumens per Lamp: 4800 (8 lamps)
Luminaire Lumens: 34350.5 lumens
Efficiency: 89.5%
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Circular (Dia: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 445
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	85	85	85	85	73	73	73	73	50	50	50	29	29	29	9	9	9	0
1	77	74	71	68	66	63	61	58	43	42	40	25	24	23	8	8	8	0
2	70	64	59	55	60	55	51	48	38	35	33	22	21	20	7	7	6	0
3	64	56	51	46	55	48	44	40	33	30	28	19	18	16	6	6	5	0
4	59	50	43	38	50	43	37	33	29	26	24	17	15	14	5	5	5	0
5	53	44	37	33	45	38	32	28	26	23	20	15	13	12	5	4	4	0
6	49	39	33	28	42	34	28	24	23	20	17	13	12	10	4	4	3	0
7	45	35	29	24	38	30	25	21	21	17	15	12	10	9	4	3	3	0
8	42	32	25	21	35	27	22	18	19	15	13	11	9	8	4	3	3	0
9	39	29	22	18	33	25	19	16	17	14	11	10	8	7	3	3	2	0
10	36	26	20	16	30	22	17	14	15	12	10	9	7	6	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	0	0	0	0
5°	0	0	0	0
10°	0	0	0	0
15°	0	0	0	0
20°	0	0	0	0
25°	0	0	0	0
30°	0	0	0	0
35°	0	0	0	0
40°	0	0	0	0
45°	0	0	0	0
50°	0	0	0	0
55°	0	0	0	0
60°	0	0	0	0
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0



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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°	3.1	0.0	0.0
90°-100°	1129.4	3.3	2.9
100°-110°	3547.6	10.3	9.2
110°-120°	5635.7	16.4	14.7
120°-130°	6663.2	19.4	17.4
130°-140°	6359.5	18.5	16.6
140°-150°	5318.4	15.5	13.8
150°-160°	3522.2	10.3	9.2
160°-170°	1706.4	5.0	4.4
170°-180°	465.0	1.4	1.2
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°	3.1	0.0	0.0
90°-120°	10312.7	30.0	26.9
90°-150°	28653.9	83.4	74.6
90°-180°	34347.0	100.0	89.4
0°-180°	34350.5	100.0	89.5

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	12	14	9	9	12	92
95°	1492	385	1018	785	1492	1455
105°	3640	1474	2902	2088	3640	3847
115°	5781	2649	4956	3346	5781	5745
125°	8112	3955	7405	4548	8112	7172
135°	8827	4724	8320	5149	8827	6868
145°	9506	5405	9170	5687	9506	5944
155°	9053	5568	8795	5808	9053	4147
165°	6757	4845	6287	5327	6757	1962
175°	4966	4433	4646	4795	4966	501
180°	4500	4500	4500	4500	4500	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	12	30	24	20	14	48	34	32	9	9	10
92.5°	645	528	487	427	137	226	334	375	396	317	323
95°	1492	1305	1242	1020	385	661	801	896	1018	996	990
97.5°	2168	2110	1920	1650	620	1110	1326	1466	1514	1653	1620
100°	2734	2835	2582	2289	902	1674	1886	2049	2007	2286	2277
102.5°	3208	3410	3217	3012	1188	2292	2404	2737	2466	2914	2902
105°	3640	3940	3782	3567	1474	2837	2941	3348	2902	3526	3486
107.5°	4087	4485	4543	4012	1755	3330	3728	3834	3341	4136	4235
110°	4539	5009	5421	4337	2013	3833	4675	4303	3758	4624	5229



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	5057	5737	6113	4859	2301	4402	5508	5054	4257	5294	6050
115°	5781	6520	6746	5425	2649	5000	6130	5767	4956	6117	6683
117.5°	6538	7252	7298	5920	3017	5584	6657	6483	5709	6878	7291
120°	7147	7808	7636	6342	3358	6123	7083	7045	6356	7482	7667
122.5°	7621	8362	7793	6756	3665	6522	7281	7646	6885	8001	7782
125°	8112	8765	8171	7081	3955	6789	7671	8073	7405	8445	8105
127.5°	8452	8857	8616	7356	4188	6890	8111	8346	7766	8630	8480
130°	8553	8887	9004	7441	4370	6910	8516	8444	7940	8773	8888
132.5°	8644	9032	9269	7485	4550	6894	8827	8655	8106	8964	9192
135°	8827	9237	9488	7522	4724	6880	9088	8923	8320	9220	9429
137.5°	9100	9437	9653	7514	4936	6874	9328	9133	8637	9467	9585
140°	9344	9524	9791	7484	5129	6847	9477	9242	8919	9613	9734
142.5°	9451	9551	9911	7417	5282	6784	9599	9299	9076	9691	9893
145°	9506	9504	9834	7358	5405	6745	9480	9331	9170	9723	9884
147.5°	9495	9476	9405	7324	5535	6702	8995	9316	9249	9750	9465
150°	9468	9443	8909	7240	5617	6641	8462	9268	9256	9766	8965
152.5°	9430	9183	8374	7001	5676	6439	7886	8921	9231	9473	8432
155°	9053	8634	7858	6652	5568	6109	7328	8285	8795	8857	7906
157.5°	8475	8048	7342	6293	5384	5768	6802	7637	8148	8205	7391
160°	7889	7479	6910	5946	5196	5453	6348	7015	7499	7548	6945
162.5°	7317	6938	6516	5631	5013	5187	5947	6440	6873	6930	6553
165°	6757	6495	6077	5357	4845	4953	5519	5976	6287	6403	6108
167.5°	6336	6054	5622	5092	4711	4743	5090	5526	5826	5903	5656
170°	5837	5586	5252	4843	4576	4545	4789	5079	5340	5394	5283
172.5°	5345	5166	4951	4649	4466	4414	4576	4737	4903	4981	4986
175°	4966	4825	4692	4520	4433	4361	4428	4525	4646	4698	4736
177.5°	4653	4568	4519	4455	4436	4380	4380	4416	4488	4517	4566
180°	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	0	0	0	0	0	0
2.5°	0	0	0	0	0	0
5°	0	0	0	0	0	0
7.5°	0	0	0	0	0	0
10°	0	0	0	0	0	0
12.5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
17.5°	0	0	0	0	0	0
20°	0	0	0	0	0	0
22.5°	0	0	0	0	0	0
25°	0	0	0	0	0	0
27.5°	0	0	0	0	0	0
30°	0	0	0	0	0	0
32.5°	0	0	0	0	0	0
35°	0	0	0	0	0	0
37.5°	0	0	0	0	0	0
40°	0	0	0	0	0	0
42.5°	0	0	0	0	0	0
45°	0	0	0	0	0	0
47.5°	0	0	0	0	0	0
50°	0	0	0	0	0	0
52.5°	0	0	0	0	0	0
55°	0	0	0	0	0	0
57.5°	0	0	0	0	0	0
60°	0	0	0	0	0	0
62.5°	0	0	0	0	0	0
65°	0	0	0	0	0	0
67.5°	0	0	0	0	0	0
70°	0	0	0	0	0	0
72.5°	0	0	0	0	0	0
75°	0	0	0	0	0	0
77.5°	0	0	0	0	0	0
80°	0	0	0	0	0	0
82.5°	0	0	0	0	0	0
85°	0	0	0	0	0	0
87.5°	0	0	0	0	0	0
90°	23	9	29	20	41	12
92.5°	370	338	381	488	584	645
95°	979	785	1050	1231	1381	1492
97.5°	1623	1178	1787	1982	2185	2168
100°	2260	1521	2473	2715	2998	2734
102.5°	3057	1818	3192	3377	3918	3208
105°	3693	2088	3857	4055	4632	3640
107.5°	4186	2369	4501	4982	5144	4087
110°	4546	2662	5010	6107	5634	4539



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	5132	2969	5603	6981	6375	5057
115°	5651	3346	6263	7541	6981	5781
117.5°	6149	3724	6822	8070	7644	6538
120°	6533	4031	7259	8410	8092	7147
122.5°	6973	4285	7567	8508	8621	7621
125°	7374	4548	7801	8725	9028	8112
127.5°	7569	4770	7891	9025	9237	8452
130°	7557	4885	7886	9368	9310	8553
132.5°	7545	4996	7830	9620	9491	8644
135°	7524	5149	7787	9831	9727	8827
137.5°	7473	5323	7750	9914	9940	9100
140°	7393	5484	7684	10002	10037	9344
142.5°	7299	5595	7606	10069	10097	9451
145°	7142	5687	7480	10026	10049	9506
147.5°	7053	5737	7424	9647	10031	9495
150°	6943	5795	7346	9184	9977	9468
152.5°	6776	5851	7177	8692	9698	9430
155°	6498	5808	6908	8220	9125	9053
157.5°	6206	5701	6615	7741	8524	8475
160°	5941	5584	6340	7337	7942	7889
162.5°	5695	5461	6073	6988	7354	7317
165°	5504	5327	5837	6548	6879	6757
167.5°	5308	5239	5592	6088	6394	6336
170°	5097	5099	5331	5680	5877	5837
172.5°	4898	4942	5075	5299	5400	5345
175°	4725	4795	4840	4944	5002	4966
177.5°	4592	4651	4643	4651	4661	4653
180°	4500	4500	4500	4500	4500	4500

(END OF REPORT)