

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: 253P154

Luminaire Tested: **1270-44-CFL/8/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P154
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1270-44-CFL/8/40
Description: SHAPER 44 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE
Light Source: EIGHT 40 WATT GX24 T4 COMPACT FLUORESCENT LAMPS
(8)F40BX - 3150 LUMENS - 40 WATTS
Ballast/Driver: -

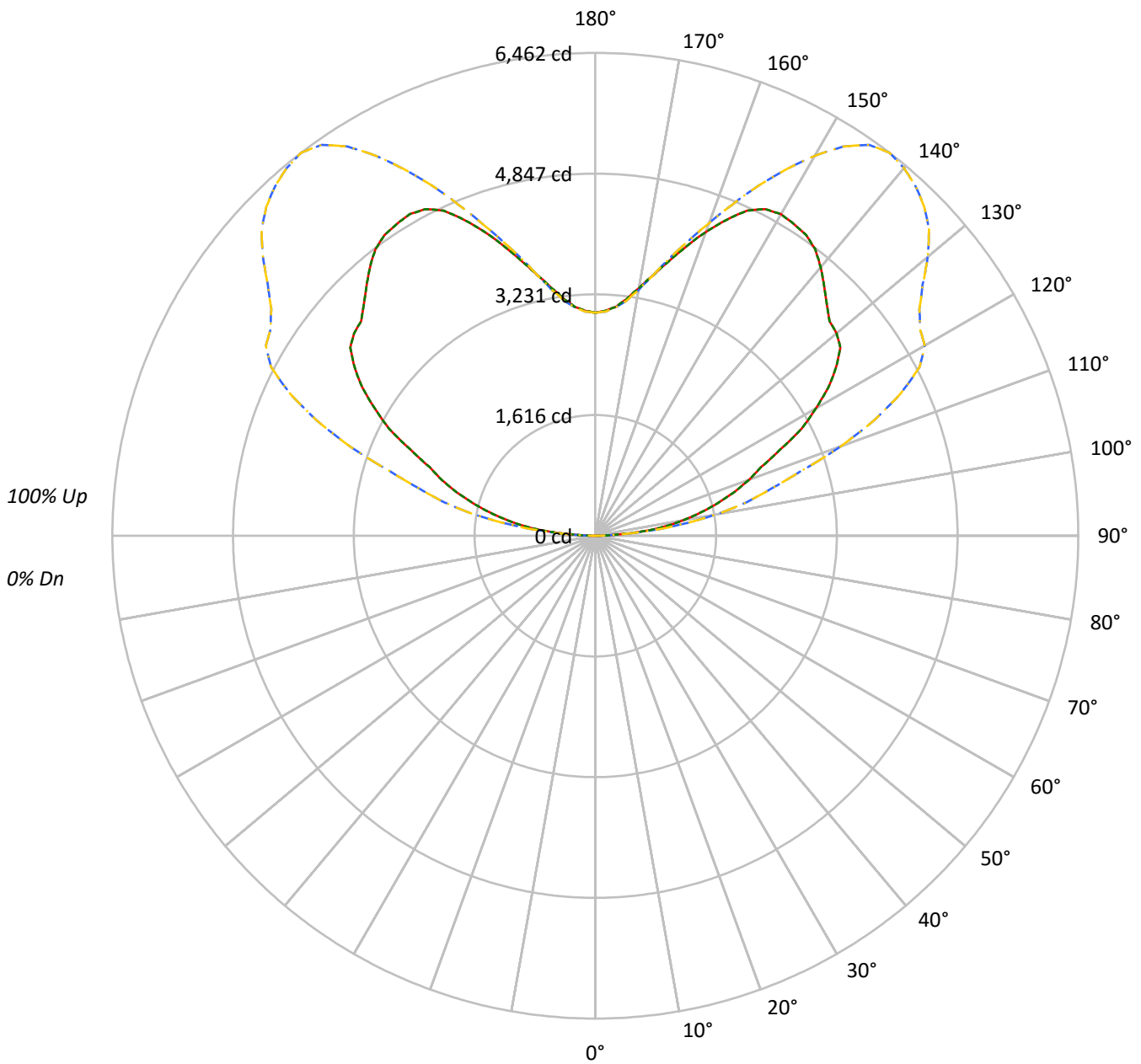
Summary

Lumens per Lamp: 3150 (8 lamps)
Luminaire Lumens: 22604.0 lumens
Efficiency: 89.7%
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Circular (Dia: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 320
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



— 0°-180° - - - 45°-225° ···· 90°-270° - · - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	78	74	71	68	66	63	61	59	43	42	40	25	24	24	8	8	8	0
2	71	65	60	55	60	55	51	48	38	35	33	22	21	20	7	7	6	0
3	64	57	51	46	55	49	44	40	33	30	28	19	18	16	6	6	5	0
4	59	50	43	39	50	43	38	33	29	26	24	17	15	14	5	5	5	0
5	54	44	38	33	46	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	14	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	36	27	22	18	19	15	13	11	9	8	4	3	3	0
9	39	29	22	18	33	25	20	16	17	14	11	10	8	7	3	3	2	0
10	36	26	20	16	31	22	17	14	16	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°	2.6	0.0	0.0
90°-100°	753.8	3.3	3.0
100°-110°	2400.2	10.6	9.5
110°-120°	3700.6	16.4	14.7
120°-130°	4380.8	19.4	17.4
130°-140°	4163.2	18.4	16.5
140°-150°	3493.5	15.5	13.9
150°-160°	2305.1	10.2	9.1
160°-170°	1102.0	4.9	4.4
170°-180°	302.1	1.3	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°	2.6	0.0	0.0
90°-120°	6854.7	30.3	27.2
90°-150°	18892.2	83.6	75.0
90°-180°	22601.0	100.0	89.7
0°-180°	22604.0	100.0	89.7

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°	18	18	18	18	18	37
95°	608	608	608	608	608	612
105°	1700	1700	1700	1700	1700	1790
115°	2729	2729	2729	2729	2729	2732
125°	3932	3932	3932	3932	3932	3486
135°	4380	4380	4380	4380	4380	3405
145°	4914	4914	4914	4914	4914	3063
155°	4801	4801	4801	4801	4801	2202
165°	3803	3803	3803	3803	3803	1097
175°	3072	3072	3072	3072	3072	303
180°	2984	2984	2984	2984	2984	



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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°	18	17	17	24	18	17	17	24	18	17	17
92.5°	236	214	229	270	236	214	229	270	236	214	229
95°	608	651	686	727	608	651	686	727	608	651	686
97.5°	930	1105	1153	1201	930	1105	1153	1201	930	1105	1153
100°	1190	1607	1644	1634	1190	1607	1644	1634	1190	1607	1644
102.5°	1446	2127	2072	2080	1446	2127	2072	2080	1446	2127	2072
105°	1700	2515	2437	2490	1700	2515	2437	2490	1700	2515	2437
107.5°	1949	2845	2884	2843	1949	2845	2884	2843	1949	2845	2884
110°	2186	3134	3493	3107	2186	3134	3493	3107	2186	3134	3493



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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°	2400	3434	4035	3432	2400	3434	4035	3432	2400	3434	4035
115°	2729	3837	4508	3915	2729	3837	4508	3915	2729	3837	4508
117.5°	3116	4243	4891	4379	3116	4243	4891	4379	3116	4243	4891
120°	3406	4628	5089	4735	3406	4628	5089	4735	3406	4628	5089
122.5°	3699	4954	5150	5070	3699	4954	5150	5070	3699	4954	5150
125°	3932	5193	5293	5305	3932	5193	5293	5305	3932	5193	5293
127.5°	4132	5301	5521	5402	4132	5301	5521	5402	4132	5301	5521
130°	4215	5264	5804	5432	4215	5264	5804	5432	4215	5264	5804
132.5°	4249	5296	6056	5511	4249	5296	6056	5511	4249	5296	6056
135°	4380	5372	6225	5559	4380	5372	6225	5559	4380	5372	6225
137.5°	4531	5445	6344	5628	4531	5445	6344	5628	4531	5445	6344
140°	4691	5504	6422	5674	4691	5504	6422	5674	4691	5504	6422
142.5°	4832	5510	6462	5662	4832	5510	6462	5662	4832	5510	6462
145°	4914	5473	6386	5613	4914	5473	6386	5613	4914	5473	6386
147.5°	4947	5431	6176	5549	4947	5431	6176	5549	4947	5431	6176
150°	4968	5365	5871	5444	4968	5365	5871	5444	4968	5365	5871
152.5°	4927	5210	5526	5266	4927	5210	5526	5266	4927	5210	5526
155°	4801	4958	5170	4996	4801	4958	5170	4996	4801	4958	5170
157.5°	4574	4666	4801	4697	4574	4666	4801	4697	4574	4666	4801
160°	4328	4365	4455	4398	4328	4365	4455	4398	4328	4365	4455
162.5°	4064	4070	4134	4086	4064	4070	4134	4086	4064	4070	4134
165°	3803	3798	3846	3810	3803	3798	3846	3810	3803	3798	3846
167.5°	3569	3559	3569	3568	3569	3559	3569	3568	3569	3559	3569
170°	3368	3353	3339	3355	3368	3353	3339	3355	3368	3353	3339
172.5°	3193	3185	3170	3190	3193	3185	3170	3190	3193	3185	3170
175°	3072	3064	3061	3084	3072	3064	3061	3084	3072	3064	3061
177.5°	3013	3007	3002	3023	3013	3007	3002	3023	3013	3007	3002
180°	2984	2984	2984	2984	2984	2984	2984	2984	2984	2984	2984



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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°	24	18	17	17	24	18
92.5°	270	236	214	229	270	236
95°	727	608	651	686	727	608
97.5°	1201	930	1105	1153	1201	930
100°	1634	1190	1607	1644	1634	1190
102.5°	2080	1446	2127	2072	2080	1446
105°	2490	1700	2515	2437	2490	1700
107.5°	2843	1949	2845	2884	2843	1949
110°	3107	2186	3134	3493	3107	2186



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	3432	2400	3434	4035	3432	2400
115°	3915	2729	3837	4508	3915	2729
117.5°	4379	3116	4243	4891	4379	3116
120°	4735	3406	4628	5089	4735	3406
122.5°	5070	3699	4954	5150	5070	3699
125°	5305	3932	5193	5293	5305	3932
127.5°	5402	4132	5301	5521	5402	4132
130°	5432	4215	5264	5804	5432	4215
132.5°	5511	4249	5296	6056	5511	4249
135°	5559	4380	5372	6225	5559	4380
137.5°	5628	4531	5445	6344	5628	4531
140°	5674	4691	5504	6422	5674	4691
142.5°	5662	4832	5510	6462	5662	4832
145°	5613	4914	5473	6386	5613	4914
147.5°	5549	4947	5431	6176	5549	4947
150°	5444	4968	5365	5871	5444	4968
152.5°	5266	4927	5210	5526	5266	4927
155°	4996	4801	4958	5170	4996	4801
157.5°	4697	4574	4666	4801	4697	4574
160°	4398	4328	4365	4455	4398	4328
162.5°	4086	4064	4070	4134	4086	4064
165°	3810	3803	3798	3846	3810	3803
167.5°	3568	3569	3559	3569	3568	3569
170°	3355	3368	3353	3339	3355	3368
172.5°	3190	3193	3185	3170	3190	3193
175°	3084	3072	3064	3061	3084	3072
177.5°	3023	3013	3007	3002	3023	3013
180°	2984	2984	2984	2984	2984	2984

(END OF REPORT)