

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: 253p156

Luminaire Tested: **1270-44-CFL/8/50**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253p156
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1270-44-CFL/8/50
Description: SHAPER 44 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE
Light Source: EIGHT 50 WATT GX24 T4 COMPACT FLUORESCENT LAMPS
(8)F50BX/SPX41 - 4000 LUMENS - 50 WATTS
Ballast/Driver: -

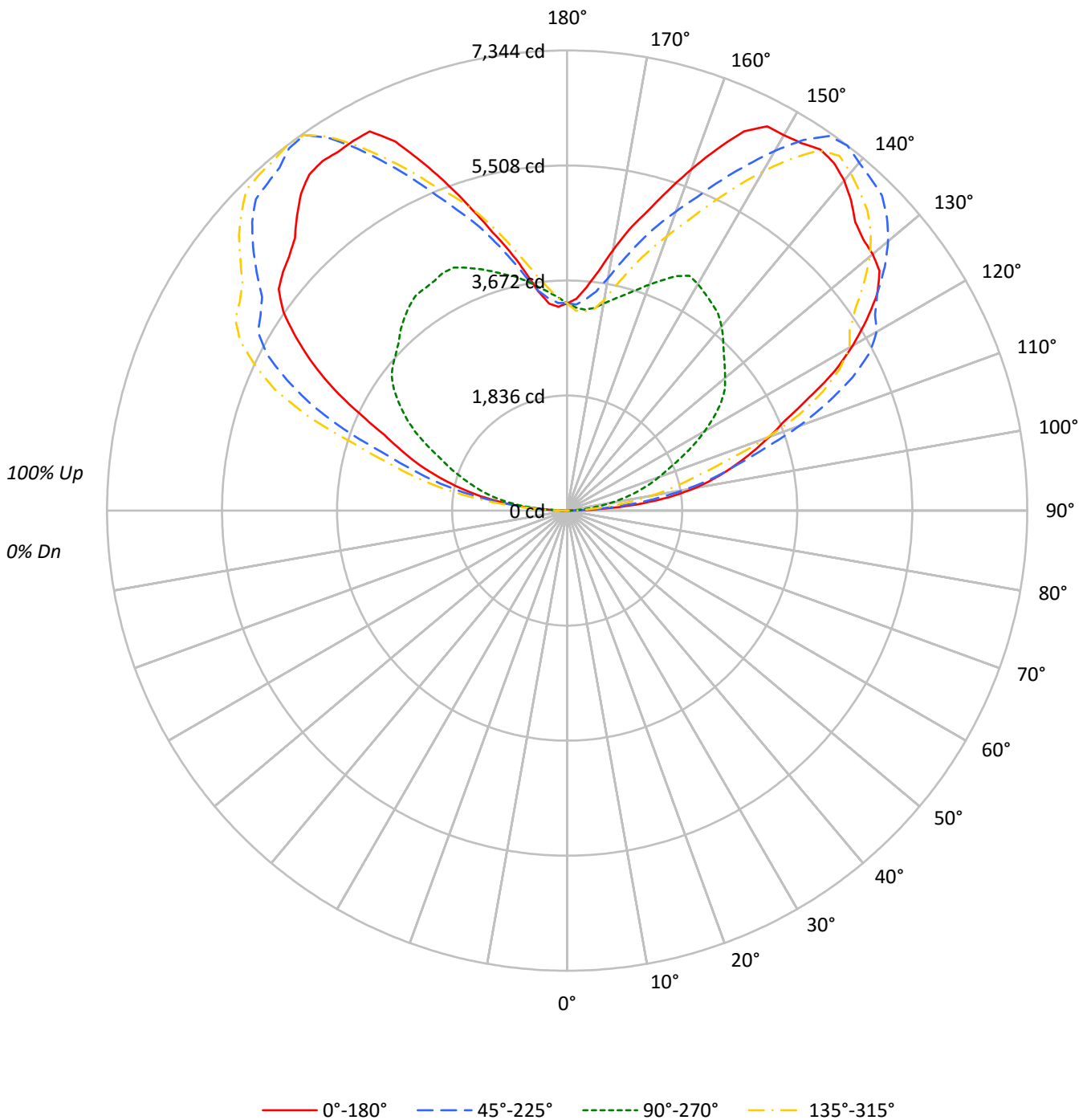
Summary

Lumens per Lamp: 4000 (8 lamps)
Luminaire Lumens: 25382.3 lumens
Efficiency: 79.3%
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Circular (Dia: 3.67' x H: 0')
CIE Type: Indirect

Input Watts (W): 468
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			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	76	76	76	76	65	65	65	65	44	44	44	25	25	25	8	8	8	0
1	69	66	63	60	59	56	54	52	38	37	36	22	21	21	7	7	7	0
2	62	57	53	49	53	49	45	42	34	31	30	19	18	17	6	6	6	0
3	57	50	45	41	48	43	39	35	29	27	25	17	16	15	5	5	5	0
4	52	44	38	34	44	38	33	30	26	23	21	15	14	12	5	4	4	0
5	47	39	33	29	40	34	29	25	23	20	18	13	12	11	4	4	3	0
6	43	35	29	25	37	30	25	21	21	18	15	12	10	9	4	3	3	0
7	40	31	25	21	34	27	22	19	18	15	13	11	9	8	3	3	3	0
8	37	28	22	19	31	24	19	16	17	14	11	10	8	7	3	3	2	0
9	34	25	20	16	29	22	17	14	15	12	10	9	7	6	3	2	2	0
10	32	23	18	14	27	20	15	12	14	11	9	8	6	5	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°	2.7	0.0	0.0
90°-100°	823.8	3.2	2.6
100°-110°	2632.4	10.4	8.2
110°-120°	4159.0	16.4	13.0
120°-130°	4941.2	19.5	15.4
130°-140°	4716.7	18.6	14.7
140°-150°	3934.7	15.5	12.3
150°-160°	2593.9	10.2	8.1
160°-170°	1242.0	4.9	3.9
170°-180°	335.9	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°	2.7	0.0	0.0
90°-120°	7615.2	30.0	23.8
90°-150°	21207.8	83.6	66.3
90°-180°	25380.0	100.0	79.3
0°-180°	25382.3	100.0	79.3

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°	15	17	15	9	15	69
95°	1100	292	705	587	1100	1092
105°	2765	1145	2168	1566	2765	2916
115°	4257	2010	3643	2466	4257	4250
125°	6047	2996	5531	3378	6047	5331
135°	6504	3533	6146	3801	6504	5075
145°	7037	4032	6809	4202	7037	4379
155°	6677	4129	6499	4279	6677	3047
165°	4940	3565	4598	3905	4940	1432
175°	3576	3218	3316	3506	3576	362
180°	3308	3308	3308	3308	3308	



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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°	15	21	16	18	17	31	22	31	15	14	9
92.5°	472	366	314	284	111	140	200	259	269	216	206
95°	1100	946	857	721	292	440	544	645	705	694	691
97.5°	1642	1574	1388	1203	495	789	943	1081	1099	1206	1184
100°	2074	2133	1900	1666	706	1220	1369	1514	1478	1697	1682
102.5°	2434	2587	2378	2214	928	1671	1759	2022	1824	2177	2154
105°	2765	3014	2791	2662	1145	2051	2155	2486	2168	2636	2585
107.5°	3094	3416	3305	3030	1359	2420	2697	2859	2509	3072	3087
110°	3429	3791	3938	3273	1554	2812	3385	3203	2821	3423	3785



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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°	3764	4274	4498	3630	1758	3222	4011	3722	3157	3872	4415
115°	4257	4832	5020	4062	2010	3661	4507	4258	3643	4463	4932
117.5°	4809	5385	5440	4453	2281	4099	4905	4806	4197	5035	5402
120°	5264	5849	5704	4795	2537	4521	5203	5263	4682	5536	5695
122.5°	5666	6274	5826	5077	2773	4798	5347	5726	5120	5947	5803
125°	6047	6547	6042	5316	2996	4980	5614	6049	5531	6286	5942
127.5°	6284	6619	6390	5534	3172	5038	5974	6256	5803	6450	6246
130°	6365	6626	6686	5641	3292	5044	6305	6327	5920	6529	6543
132.5°	6409	6675	6924	5674	3411	5016	6574	6455	6014	6620	6819
135°	6504	6842	7107	5711	3533	5021	6777	6682	6146	6821	7027
137.5°	6708	6981	7179	5721	3686	5032	6908	6874	6383	7012	7081
140°	6877	7081	7249	5685	3835	5029	7037	6976	6605	7165	7143
142.5°	6995	7123	7343	5607	3957	4995	7136	6999	6761	7219	7289
145°	7037	7025	7297	5525	4032	4950	7016	6964	6809	7183	7316
147.5°	6953	6951	7010	5481	4102	4911	6658	6947	6794	7176	7044
150°	6918	6954	6627	5405	4175	4876	6249	6925	6816	7219	6660
152.5°	6913	6801	6216	5193	4224	4716	5816	6638	6821	7011	6252
155°	6677	6398	5815	4921	4129	4469	5393	6158	6499	6548	5846
157.5°	6242	5947	5413	4640	3981	4213	4991	5659	6006	6052	5442
160°	5796	5502	5079	4367	3837	3960	4662	5174	5517	5553	5097
162.5°	5351	5061	4761	4109	3694	3739	4344	4714	5034	5076	4779
165°	4940	4723	4423	3891	3565	3559	4020	4357	4598	4675	4438
167.5°	4597	4380	4082	3693	3457	3415	3703	4007	4238	4290	4100
170°	4219	4041	3766	3518	3354	3295	3416	3682	3869	3915	3783
172.5°	3853	3723	3525	3362	3260	3194	3236	3394	3527	3571	3538
175°	3576	3477	3380	3277	3218	3164	3190	3241	3316	3364	3399
177.5°	3381	3328	3292	3269	3244	3207	3195	3217	3255	3292	3317
180°	3308	3308	3308	3308	3308	3308	3308	3308	3308	3308	3308



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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°	26	9	18	13	45	15
92.5°	289	256	246	304	452	472
95°	742	587	736	860	1048	1100
97.5°	1243	896	1287	1437	1665	1642
100°	1700	1150	1814	1993	2248	2074
102.5°	2279	1366	2333	2485	2921	2434
105°	2776	1566	2779	2965	3460	2765
107.5°	3167	1770	3220	3583	3828	3094
110°	3442	1988	3606	4392	4182	3429



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	3833	2197	4016	5048	4675	3764
115°	4234	2466	4512	5501	5126	4257
117.5°	4628	2737	4937	5885	5605	4809
120°	4920	2973	5306	6114	5986	5264
122.5°	5225	3177	5505	6196	6372	5666
125°	5499	3378	5663	6322	6652	6047
127.5°	5690	3529	5737	6574	6808	6284
130°	5733	3627	5741	6838	6883	6365
132.5°	5679	3706	5685	7047	6980	6409
135°	5685	3801	5664	7241	7178	6504
137.5°	5639	3931	5635	7272	7342	6708
140°	5562	4035	5597	7291	7437	6877
142.5°	5484	4127	5551	7344	7482	6995
145°	5330	4202	5458	7319	7393	7037
147.5°	5214	4211	5382	7072	7338	6953
150°	5124	4235	5315	6724	7310	6918
152.5°	5002	4282	5208	6356	7115	6913
155°	4795	4279	5017	5998	6694	6677
157.5°	4569	4195	4800	5630	6240	6242
160°	4344	4102	4589	5346	5791	5796
162.5°	4120	4005	4376	5052	5349	5351
165°	3953	3905	4203	4723	4999	4940
167.5°	3798	3824	4027	4387	4618	4597
170°	3663	3718	3853	4071	4237	4219
172.5°	3543	3608	3688	3793	3873	3853
175°	3433	3506	3535	3571	3593	3576
177.5°	3357	3408	3413	3400	3397	3381
180°	3308	3308	3308	3308	3308	3308

(END OF REPORT)