

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: 253P302

Luminaire Tested: **507-CFL/1/42W-120V**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 253P302  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 507-CFL/1/42W-120V  
Description: SHAPER CLASSIC WALL LUMINAIRE GLASS SCONCE  
Light Source: ONE - CF42TTT/E/IN841 - 3200 LUMENS -42 WATTS  
Ballast/Driver: -

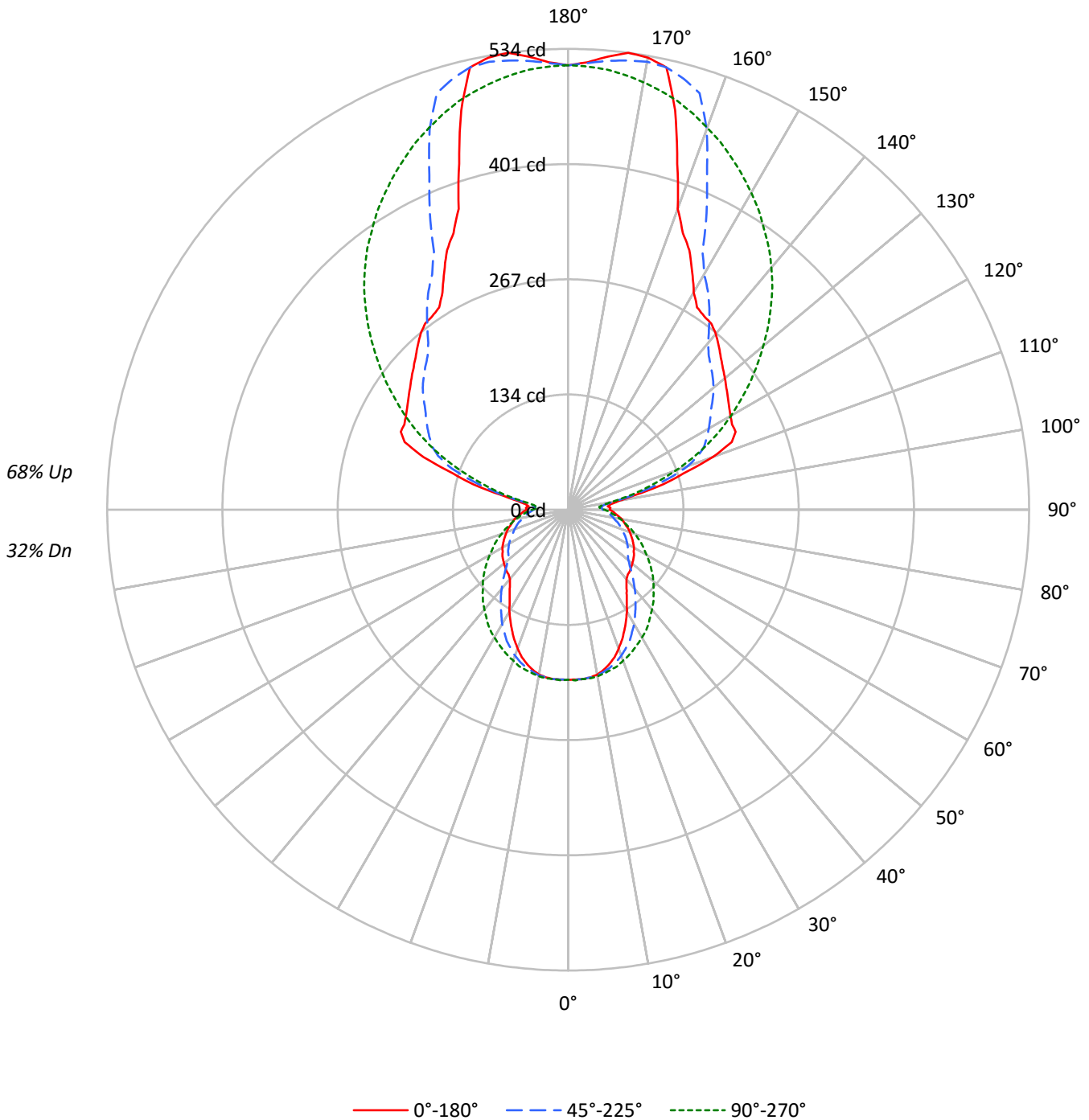
**Summary**

Lumens per Lamp: 3200 (1 lamp)  
Luminaire Lumens: 1901.8 lumens  
Efficiency: 59.4%  
Efficacy: 36.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.29 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 1.12' x L: 0.71' x H: 0.42')  
CIE Type: Semi-Indirect

Input Watts (W): 52  
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	61	61	61	61	55	55	55	55	44	44	44	33	33	33	24	24	24	19						19													
1	55	52	50	47	49	47	45	43	37	36	34	28	27	26	20	19	19	15						15													
2	50	45	41	38	45	41	37	35	32	30	28	24	23	21	17	16	15	12						12													
3	45	40	35	32	40	36	32	29	28	25	23	21	19	18	15	14	13	10						10													
4	41	35	30	26	37	31	27	24	25	22	20	19	17	15	13	12	11	8						8													
5	38	31	26	23	34	28	24	21	22	19	17	17	15	13	12	10	9	7						7													
6	35	28	23	19	31	25	21	18	20	17	14	15	13	11	11	9	8	6						6													
7	32	25	20	17	29	23	18	15	18	15	13	14	12	10	10	8	7	5						5													
8	30	23	18	15	27	20	16	14	16	13	11	13	10	9	9	8	6	5						5													
9	28	20	16	13	25	19	15	12	15	12	10	12	9	8	8	7	6	4						4													
10	26	19	14	12	23	17	13	11	14	11	9	11	9	7	8	6	5	4						4													

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

	0°	45°	90°
0°	2661	2661	2661
5°	2540	2522	2587
10°	2411	2389	2524
15°	2235	2237	2443
20°	2025	2075	2356
25°	1801	1903	2275
30°	1583	1715	2197
35°	1378	1521	2121
40°	1240	1349	2031
45°	1215	1184	1952
50°	1198	1058	1881
55°	1190	1017	1802
60°	1178	982	1728
65°	1159	951	1674
70°	1147	911	1605
75°	1127	887	1555
80°	1130	851	1530
85°	1104	833	1510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.7	1.0	0.6
10°-20°	53.1	2.8	1.7
20°-30°	76.9	4.0	2.4
30°-40°	86.8	4.6	2.7
40°-50°	87.7	4.6	2.7
50°-60°	85.6	4.5	2.7
60°-70°	79.7	4.2	2.5
70°-80°	68.8	3.6	2.2
80°-90°	54.6	2.9	1.7
90°-100°	47.0	2.5	1.5
100°-110°	105.1	5.5	3.3
110°-120°	176.1	9.3	5.5
120°-130°	192.6	10.1	6.0
130°-140°	199.1	10.5	6.2
140°-150°	199.4	10.5	6.2
150°-160°	181.8	9.6	5.7
160°-170°	139.1	7.3	4.3
170°-180°	49.8	2.6	1.6
0°-30°	148.8	7.8	4.6
0°-40°	235.6	12.4	7.4
0°-60°	408.9	21.5	12.8
0°-90°	612.0	32.2	19.1
90°-120°	328.2	17.3	10.3
90°-150°	919.2	48.3	28.7
90°-180°	1290.0	67.8	40.3
0°-180°	1901.8	100.0	59.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	197	197	197	197	197	
5°	197	197	197	197	197	19
15°	185	186	189	192	192	52
25°	154	157	168	177	179	71
35°	118	122	136	156	162	74
45°	101	98	104	130	140	78
55°	93	90	85	103	117	83
65°	82	79	73	82	94	81
75°	69	67	60	64	71	73
85°	55	53	47	47	51	47
90°	48	46	40	39	42	27
95°	46	44	38	35	36	41
105°	114	109	99	88	89	120
115°	214	202	174	150	177	206
125°	226	219	202	195	257	203
135°	250	248	234	251	332	194
145°	274	271	285	382	396	173
155°	332	336	379	473	449	152
165°	479	497	517	507	490	130
175°	527	527	522	515	512	51
180°	515	515	515	515	515	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	197	197	197	197	197
2.5°	197	197	197	198	198
5°	197	197	197	197	197
7.5°	196	196	196	197	197
10°	194	194	195	195	196
12.5°	190	190	192	194	194
15°	185	186	189	192	192
17.5°	179	181	185	189	190
20°	171	174	180	185	186
22.5°	163	166	174	182	183
25°	154	157	168	177	179
27.5°	145	148	160	173	175
30°	136	140	153	168	171
32.5°	126	131	144	162	167
35°	118	122	136	156	162
37.5°	111	114	128	150	156
40°	105	107	120	144	151
42.5°	102	101	112	137	146
45°	101	98	104	130	140
47.5°	99	96	97	123	134
50°	97	94	91	116	129
52.5°	95	92	87	109	123
55°	93	90	85	103	117
57.5°	90	87	82	97	111
60°	88	85	79	92	105
62.5°	85	82	76	87	99
65°	82	79	73	82	94
67.5°	79	76	69	77	88
70°	76	73	66	73	82
72.5°	73	70	63	68	77
75°	69	67	60	64	71
77.5°	66	63	56	59	66
80°	63	60	53	55	61
82.5°	59	57	50	51	56
85°	55	53	47	47	51
87.5°	52	50	43	43	47
90°	48	46	40	39	42
92.5°	49	47	39	36	37
95°	46	44	38	35	36
97.5°	50	48	42	39	40
100°	60	59	53	49	50
102.5°	81	81	75	67	69
105°	114	109	99	88	89
107.5°	140	137	124	107	110
110°	178	170	147	124	132



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	205	194	163	138	155
115°	214	202	174	150	177
117.5°	214	206	181	161	198
120°	217	211	188	172	218
122.5°	221	215	195	183	237
125°	226	219	202	195	257
127.5°	231	225	211	207	276
130°	237	232	220	221	295
132.5°	243	239	227	235	314
135°	250	248	234	251	332
137.5°	258	257	241	279	350
140°	266	264	252	310	366
142.5°	272	267	268	344	382
145°	274	271	285	382	396
147.5°	278	282	301	415	411
150°	291	300	315	442	424
152.5°	311	319	337	460	437
155°	332	336	379	473	449
157.5°	347	350	420	485	461
160°	371	397	469	494	471
162.5°	420	442	506	501	481
165°	479	497	517	507	490
167.5°	525	527	525	511	497
170°	532	533	527	513	503
172.5°	534	533	525	514	508
175°	527	527	522	515	512
177.5°	519	520	518	515	514
180°	515	515	515	515	515

(END OF REPORT)