

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: P368746

Luminaire Tested: **674-W-55-L5/840**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368746
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 11/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 674-W-55-L5/840
Description: 55" 674 SERIES LUMINOUS WALL SCONCE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

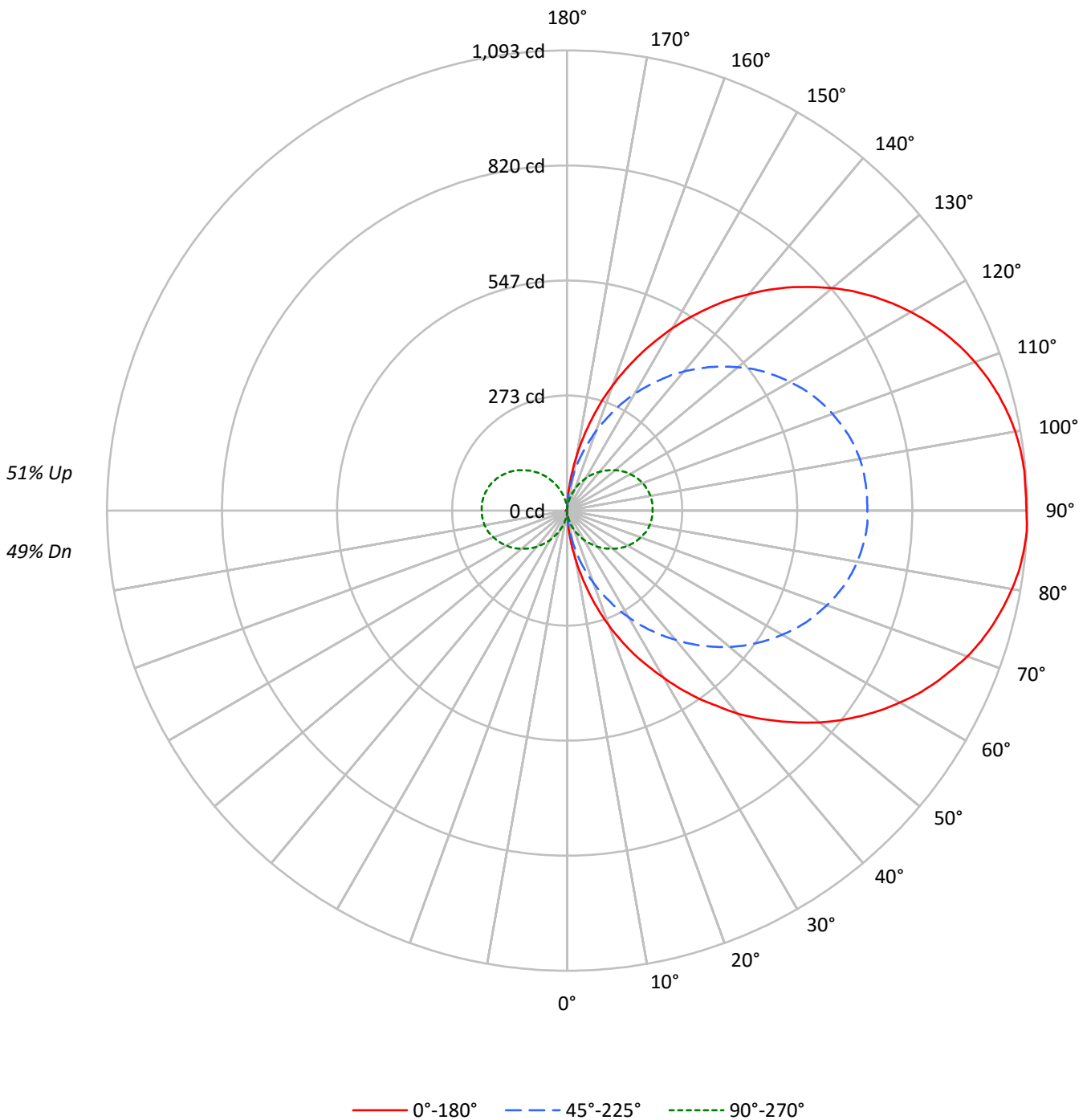
Lumens per Lamp: N/A
Luminaire Lumens: 3469.4 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 14.08 / 9.98 / 10.94
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.21' x H: 4.58')
CIE Type: General Diffuse

Input Watts (W): 42.7
Input Voltage (V): 120
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	92	85	79	73	84	78	72	67	64	60	56	51	48	45	40	37	35	29
2	81	71	62	55	74	65	57	51	53	47	42	42	37	33	32	28	25	20
3	73	60	51	43	66	55	46	40	45	38	33	35	30	26	26	22	19	14
4	66	52	42	35	59	47	39	32	38	32	26	30	25	20	22	18	15	11
5	60	46	36	29	54	42	33	26	34	27	21	26	21	17	19	15	12	8
6	55	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	7
7	50	36	27	21	45	33	25	19	27	20	15	21	16	12	15	11	8	5
8	46	32	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	9	13	9	6	4
10	40	27	19	13	36	24	17	12	20	14	10	16	11	8	12	8	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	219	219	219
5°	1277	421	0
10°	1837	727	0
15°	2234	967	0
20°	2508	1157	0
25°	2695	1302	0
30°	2822	1441	0
35°	2958	1546	0
40°	3078	1659	0
45°	3171	1754	0
50°	3264	1837	0
55°	3338	1925	4
60°	3402	1984	4
65°	3461	2054	7
70°	3513	2112	7
75°	3551	2174	7
80°	3584	2217	7
85°	3610	2255	10



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.1
10°-20°	19.7	0.6
20°-30°	57.4	1.7
30°-40°	112.7	3.2
40°-50°	180.5	5.2
50°-60°	252.5	7.3
60°-70°	317.8	9.2
70°-80°	368.3	10.6
80°-90°	395.7	11.4
90°-100°	396.6	11.4
100°-110°	373.9	10.8
110°-120°	327.1	9.4
120°-130°	263.5	7.6
130°-140°	191.8	5.5
140°-150°	121.9	3.5
150°-160°	62.9	1.8
160°-170°	21.8	0.6
170°-180°	2.7	0.1
0°-30°	79.5	2.3
0°-40°	192.2	5.5
0°-60°	625.3	18.0
0°-90°	1707.1	49.2
90°-120°	1097.6	31.6
90°-150°	1674.9	48.3
90°-180°	1762.0	50.8
0°-180°	3469.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	51	31	9	3	0	7
15°	204	129	35	2	0	60
25°	377	237	65	2	0	176
35°	545	348	96	2	0	344
45°	707	454	127	2	0	549
55°	851	549	155	3	1	764
65°	966	627	177	3	2	958
75°	1047	682	194	3	2	1106
85°	1089	711	202	4	3	886
90°	1091	713	203	4	3	598
95°	1090	712	203	4	3	888
105°	1061	692	196	4	3	1121
115°	992	645	183	3	2	983
125°	887	574	162	2	1	795
135°	750	482	135	2	1	581
145°	588	376	105	2	0	371
155°	409	260	72	2	0	192
165°	223	143	40	2	0	66
175°	57	37	10	3	0	8
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3	3	3	3	3	3	3	3	3	3	3
2.5°	18	16	15	14	12	10	9	7	6	5	5
5°	51	49	47	44	37	31	25	20	15	10	9
7.5°	85	83	79	73	64	53	42	33	26	18	14
10°	121	119	115	106	92	77	61	48	37	26	21
12.5°	161	159	152	140	122	102	81	63	50	34	28
15°	204	201	193	177	154	129	102	79	62	44	35
17.5°	247	246	231	213	186	156	123	96	75	53	42
20°	291	289	274	253	219	183	144	113	88	62	50
22.5°	333	332	314	288	254	210	167	130	101	72	57
25°	377	373	355	325	286	237	188	147	114	81	65
27.5°	416	415	395	362	318	267	209	163	128	91	73
30°	459	456	435	398	350	293	230	180	141	101	81
32.5°	502	500	476	435	384	321	254	197	155	110	88
35°	545	543	517	473	416	348	276	214	168	120	96
37.5°	585	582	554	509	447	375	298	230	181	130	104
40°	629	624	595	545	479	401	320	248	195	140	112
42.5°	669	664	632	580	510	428	342	265	208	149	120
45°	707	704	669	614	541	454	363	282	220	158	127
47.5°	745	741	705	647	570	479	383	298	233	168	134
50°	783	778	741	680	599	504	402	314	245	176	141
52.5°	818	814	775	711	627	527	422	329	259	185	148
55°	851	846	806	740	652	549	440	344	271	193	155
57.5°	883	878	837	768	678	570	456	357	282	201	161
60°	912	908	865	795	701	590	472	370	291	208	166
62.5°	941	935	891	819	722	609	487	382	300	214	172
65°	966	960	915	842	742	627	501	393	310	220	177
67.5°	989	983	938	863	760	642	514	403	317	227	182
70°	1012	1006	959	882	778	657	526	412	325	232	186
72.5°	1031	1025	977	898	794	670	537	421	332	237	190
75°	1047	1041	993	913	807	682	547	428	338	241	194
77.5°	1061	1055	1006	926	819	692	555	434	343	244	197
80°	1073	1068	1018	936	828	700	562	440	347	249	199
82.5°	1083	1076	1026	945	835	706	567	443	351	251	201
85°	1089	1082	1032	950	840	711	571	446	353	253	202
87.5°	1093	1086	1036	955	843	714	573	448	354	254	203
90°	1091	1084	1035	952	843	713	572	447	353	254	203
92.5°	1090	1083	1034	951	842	713	573	448	353	254	203
93°	1090	1084	1034	951	842	713	573	448	353	253	203
95°	1090	1082	1033	951	841	712	572	449	353	254	203
97.5°	1087	1080	1031	948	839	710	571	447	352	252	202
100°	1081	1075	1026	943	835	706	568	445	350	250	201
102.5°	1072	1066	1018	936	828	700	562	441	348	248	199
105°	1061	1055	1007	926	819	692	556	436	343	245	196
107.5°	1047	1041	993	913	808	682	549	429	338	241	194



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	1031	1025	978	899	795	671	539	422	332	238	191
112.5°	1013	1007	961	883	781	659	529	415	326	233	187
115°	992	986	941	864	764	645	518	405	318	228	183
117.5°	969	963	919	843	745	629	505	396	311	222	178
120°	943	938	893	820	724	611	491	385	302	216	173
122.5°	916	911	869	796	703	593	476	373	293	209	168
125°	887	882	840	770	681	574	460	360	283	201	162
127.5°	856	850	809	744	656	553	443	347	273	194	156
130°	822	817	778	713	630	530	425	333	259	187	149
132.5°	786	781	744	683	601	506	406	317	247	178	142
135°	750	745	710	652	574	482	386	302	235	169	135
137.5°	712	707	674	619	545	457	366	286	223	159	128
140°	671	667	635	583	514	431	344	268	209	150	120
142.5°	631	626	595	548	482	405	324	250	195	141	113
145°	588	584	556	510	450	376	301	233	182	131	105
147.5°	544	541	516	473	416	348	278	215	168	121	97
150°	500	497	475	434	383	320	253	197	154	110	89
152.5°	454	452	431	396	348	291	230	179	140	100	80
155°	409	407	388	356	314	260	208	162	125	90	72
157.5°	362	361	344	317	279	230	184	143	111	79	64
160°	317	315	301	275	242	201	161	125	96	69	55
162.5°	271	269	254	235	206	171	137	107	83	60	47
165°	223	221	211	196	172	143	114	89	68	49	40
167.5°	178	177	169	157	137	115	92	71	54	40	31
170°	135	134	128	119	105	88	70	54	42	30	24
172.5°	94	92	89	83	73	62	49	39	29	22	18
175°	57	56	52	50	44	37	30	24	18	13	10
177.5°	22	21	20	20	17	14	12	9	7	5	5
180°	3	3	3	3	3	3	3	3	3	3	3



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3	3	3	3	3	3	3	3	3	3
2.5°	5	4	4	3	3	2	1	1	0	0
5°	7	6	4	3	3	2	1	1	0	0
7.5°	11	7	5	4	3	2	1	1	0	0
10°	16	9	6	4	3	2	1	1	0	0
12.5°	22	11	6	4	3	2	1	1	0	0
15°	27	14	7	4	2	2	1	1	0	0
17.5°	32	17	8	4	2	2	1	1	0	0
20°	38	20	9	4	2	2	1	1	0	0
22.5°	44	23	10	5	2	2	1	1	0	0
25°	50	26	11	5	2	2	1	0	0	0
27.5°	56	29	13	5	2	2	1	1	0	0
30°	62	32	13	5	2	2	1	1	0	0
32.5°	68	35	15	6	2	2	1	1	0	0
35°	74	39	16	6	2	2	1	1	0	0
37.5°	80	41	17	6	2	2	1	1	0	0
40°	86	44	19	6	2	2	1	1	0	0
42.5°	92	48	20	7	2	2	1	1	0	0
45°	98	51	21	7	2	2	1	1	0	0
47.5°	104	53	23	7	3	2	1	1	0	0
50°	109	56	24	8	3	2	1	1	0	0
52.5°	114	59	25	8	3	2	1	1	1	1
55°	119	62	26	9	3	2	2	1	1	1
57.5°	124	64	27	9	3	2	2	1	1	1
60°	128	67	28	10	3	2	2	1	1	1
62.5°	132	69	29	10	3	2	2	1	1	1
65°	136	72	30	10	3	2	2	2	2	2
67.5°	139	74	31	11	3	2	2	2	2	2
70°	143	76	32	11	3	3	2	2	2	2
72.5°	146	77	33	11	3	3	2	2	2	2
75°	149	79	34	11	3	3	3	2	2	2
77.5°	151	80	34	12	3	3	3	3	3	2
80°	153	81	35	12	3	3	3	3	2	2
82.5°	155	81	35	12	4	3	3	3	3	3
85°	156	83	36	12	4	3	3	3	3	3
87.5°	157	83	36	12	4	3	3	3	3	3
90°	156	83	36	12	4	3	3	3	3	3
92.5°	157	83	36	12	4	3	3	3	3	3
93°	157	83	36	12	4	3	3	3	3	3
95°	157	83	36	12	4	3	3	3	3	3
97.5°	156	83	36	12	4	3	3	3	3	3
100°	155	82	36	12	4	3	3	3	3	3
102.5°	154	82	36	12	4	3	3	3	3	3
105°	152	81	35	12	4	3	2	3	2	3
107.5°	150	79	35	11	3	3	2	2	2	2



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	147	78	34	11	3	3	2	2	2	2
112.5°	145	76	33	11	3	2	2	2	2	2
115°	141	74	32	10	3	2	2	2	2	2
117.5°	138	73	32	10	3	2	2	2	2	2
120°	134	71	31	10	3	2	2	2	2	2
122.5°	129	69	30	9	3	2	2	1	1	1
125°	125	66	29	9	2	2	2	1	1	1
127.5°	120	64	28	9	2	2	2	1	1	1
130°	115	61	26	8	2	2	2	1	1	1
132.5°	110	58	25	8	2	2	1	1	1	1
135°	104	55	24	7	2	2	1	1	1	1
137.5°	99	52	23	7	2	2	1	1	0	0
140°	93	49	21	6	2	2	1	1	0	0
142.5°	87	46	20	6	2	2	1	1	0	0
145°	81	43	19	6	2	2	1	1	0	0
147.5°	75	39	17	5	2	2	1	1	0	0
150°	69	36	16	5	2	2	1	1	0	0
152.5°	63	32	15	4	2	2	1	1	0	0
155°	56	29	13	4	2	2	1	1	0	0
157.5°	50	26	11	4	2	2	1	1	0	0
160°	43	23	10	4	2	2	1	1	0	0
162.5°	37	20	9	3	2	2	1	1	0	0
165°	30	17	7	3	2	2	1	1	0	0
167.5°	25	14	6	3	3	2	1	1	0	0
170°	19	10	5	3	3	2	1	1	0	0
172.5°	14	8	5	3	3	2	1	1	0	0
175°	8	5	4	3	3	2	2	1	0	0
177.5°	5	4	4	4	3	2	2	1	0	0
180°	3	3	3	3	3	3	3	3	3	3

(END OF REPORT)