

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: P368730

Luminaire Tested: **673-25-L3/840**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368730
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 11/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 673-25-L3/840
Description: 25" 673 SERIES LUMINOUS WALL SCNCE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

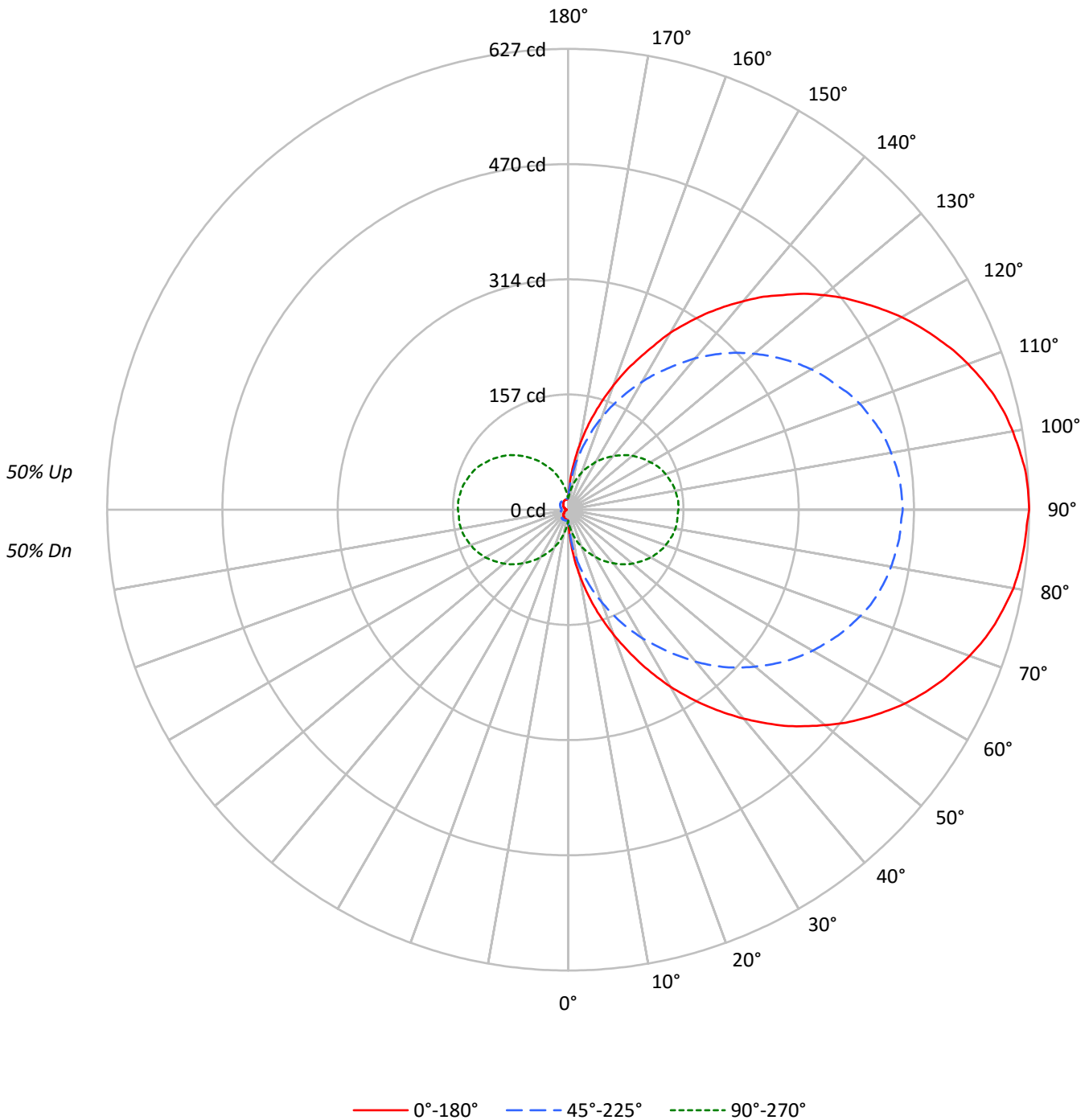
Lumens per Lamp: N/A
Luminaire Lumens: 2251.1 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 6.53 / 4.9 / 5.37
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.25' x H: 2.08')
CIE Type: General Diffuse

Input Watts (W): 21.1
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



TEST NUMBER: P368730
CATALOG NUMBER: 673-25-L3/840

Luminous Intensity Polar Plot





TEST NUMBER: P368730
 CATALOG NUMBER: 673-25-L3/840

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	56	56	56	50
1	92	85	79	74	84	78	73	68	64	60	57	52	49	46	41	38	36	30
2	82	71	63	56	74	65	58	51	53	47	42	42	38	34	32	29	26	21
3	73	61	51	44	66	55	47	40	45	39	33	36	31	26	27	23	20	15
4	66	53	43	35	60	48	39	32	39	32	27	31	25	21	23	19	16	12
5	60	46	36	29	54	42	33	27	34	27	22	27	21	17	20	16	13	9
6	55	41	31	25	50	37	29	22	30	23	18	24	18	14	18	14	10	7
7	50	36	27	21	46	33	25	19	27	20	16	21	16	12	16	12	9	6
8	47	33	24	18	42	30	22	16	24	18	13	19	14	10	15	11	7	5
9	43	30	21	16	39	27	19	14	22	16	12	18	13	9	13	9	6	4
10	40	27	19	14	37	25	17	13	20	14	10	16	11	8	12	8	6	4

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	912	912	912
5°	1729	1116	494
10°	2275	1341	350
15°	2647	1513	253
20°	2903	1687	209
25°	3143	1810	165
30°	3358	1925	145
35°	3528	2062	119
40°	3683	2174	99
45°	3831	2290	83
50°	3945	2393	69
55°	4058	2486	58
60°	4159	2593	47
65°	4245	2677	38
70°	4321	2760	30
75°	4397	2843	22
80°	4461	2930	22
85°	4507	3002	14



TEST NUMBER: P368730
 CATALOG NUMBER: 673-25-L3/840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.1
10°-20°	17.1	0.8
20°-30°	43.0	1.9
30°-40°	79.4	3.5
40°-50°	122.6	5.4
50°-60°	167.0	7.4
60°-70°	206.7	9.2
70°-80°	236.3	10.5
80°-90°	251.4	11.2
90°-100°	252.0	11.2
100°-110°	236.0	10.5
110°-120°	205.9	9.1
120°-130°	166.3	7.4
130°-140°	122.2	5.4
140°-150°	79.4	3.5
150°-160°	43.0	1.9
160°-170°	17.0	0.8
170°-180°	3.0	0.1
0°-30°	63.1	2.8
0°-40°	142.5	6.3
0°-60°	432.1	19.2
0°-90°	1126.4	50.0
90°-120°	693.8	30.8
90°-150°	1061.7	47.2
90°-180°	1125.0	50.0
0°-180°	2251.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	49	39	23	15	14	6
15°	136	102	43	15	13	40
25°	229	168	64	15	12	107
35°	325	235	85	14	11	205
45°	416	303	105	13	9	322
55°	494	360	122	12	7	443
65°	557	405	136	11	5	552
75°	601	437	145	10	3	635
85°	622	452	149	9	2	507
90°	627	455	150	9	2	343
95°	624	453	150	9	2	507
105°	600	436	145	10	4	633
115°	553	402	136	12	6	549
125°	490	357	122	13	8	440
135°	413	301	105	14	9	321
145°	325	234	85	15	11	205
155°	227	167	64	16	13	107
165°	133	99	43	16	14	39
175°	48	38	23	15	14	6
180°	16	16	16	16	16	



TEST NUMBER: P368730
 CATALOG NUMBER: 673-25-L3/840

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	15	15	15	15	15	15	15	15	15	15	15
2.5°	28	27	27	27	25	24	22	21	20	18	18
5°	49	48	47	46	42	39	35	32	28	24	23
7.5°	71	68	68	64	59	55	48	42	36	30	28
10°	91	89	88	83	77	70	61	53	44	37	33
12.5°	113	111	109	103	94	85	74	63	52	43	38
15°	136	135	131	123	113	102	88	74	61	49	43
17.5°	158	157	153	143	132	118	102	85	70	55	49
20°	181	180	174	164	150	134	116	97	78	62	54
22.5°	204	203	197	185	170	151	130	108	87	68	59
25°	229	226	220	206	189	168	144	120	96	74	64
27.5°	253	250	243	228	209	185	158	131	105	80	69
30°	278	276	268	249	228	202	172	142	113	87	74
32.5°	301	300	290	273	247	218	187	154	122	93	80
35°	325	323	312	294	268	235	201	165	131	99	85
37.5°	348	347	336	316	288	252	215	177	139	105	90
40°	371	370	358	336	306	270	229	188	148	112	95
42.5°	393	392	379	357	324	287	242	199	156	118	100
45°	416	414	401	377	343	303	257	209	164	124	105
47.5°	436	434	420	395	360	318	270	219	172	129	110
50°	456	455	440	414	377	332	282	229	180	134	114
52.5°	476	474	459	431	392	346	294	239	187	139	118
55°	494	493	477	448	408	360	305	247	194	144	122
57.5°	511	510	493	463	422	372	316	257	200	149	126
60°	528	526	510	478	435	384	326	266	206	153	130
62.5°	543	540	525	492	448	394	335	273	212	157	133
65°	557	555	538	505	459	405	343	280	217	161	136
67.5°	569	567	550	517	470	414	351	286	222	165	139
70°	581	580	562	528	480	423	359	292	226	168	141
72.5°	592	590	572	537	489	431	365	297	230	170	143
75°	601	599	581	545	496	437	370	302	233	172	145
77.5°	608	606	588	552	502	442	374	305	235	174	147
80°	615	613	594	557	508	446	378	308	237	176	148
82.5°	619	617	598	561	511	449	381	310	239	176	149
85°	622	620	601	564	513	452	383	311	240	177	149
87.5°	624	622	603	566	515	453	384	312	240	177	149
88°	624	622	603	566	515	453	384	312	240	178	149
90°	627	625	606	569	518	455	386	314	242	179	150
92.5°	626	624	605	568	517	454	385	313	242	179	150
95°	624	622	603	566	515	453	384	313	241	178	150
97.5°	619	617	598	562	512	450	381	311	239	177	149
100°	614	612	593	557	507	446	378	308	238	176	148
102.5°	608	605	587	551	502	442	374	305	235	174	147
105°	600	598	579	544	495	436	370	301	232	172	145
107.5°	590	588	570	535	488	429	364	297	229	170	143



TEST NUMBER: P368730
 CATALOG NUMBER: 673-25-L3/840

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	579	577	559	526	479	422	358	292	225	167	141
112.5°	567	565	547	514	469	413	350	286	221	164	139
115°	553	551	534	501	457	402	342	279	216	161	136
117.5°	539	537	521	489	446	393	333	272	211	157	133
120°	524	522	506	475	434	382	324	265	205	153	129
122.5°	507	506	491	460	420	370	315	254	199	149	126
125°	490	488	474	445	405	357	303	246	192	144	122
127.5°	473	470	456	428	391	344	292	237	186	139	118
130°	454	451	438	411	375	330	282	228	179	134	114
132.5°	435	431	419	393	359	316	269	218	171	128	110
135°	413	410	398	374	342	301	254	208	164	123	105
137.5°	393	389	377	355	324	285	242	198	156	117	100
140°	370	367	357	335	306	269	228	187	147	111	95
142.5°	348	346	335	315	287	251	215	176	139	105	90
145°	325	322	313	294	269	234	201	165	131	99	85
147.5°	301	300	289	273	247	218	187	154	122	93	80
150°	278	276	267	250	228	201	173	143	113	87	75
152.5°	251	251	241	228	208	184	158	131	104	80	69
155°	227	226	218	206	189	167	144	120	95	74	64
157.5°	204	203	196	185	169	151	130	108	87	68	59
160°	180	179	173	164	150	133	115	97	78	61	54
162.5°	156	156	150	143	131	117	101	85	69	55	48
165°	133	132	128	122	112	99	87	74	61	49	43
167.5°	111	110	108	102	94	84	74	63	52	42	38
170°	89	88	87	82	76	69	61	52	44	36	33
172.5°	68	67	66	63	58	53	48	41	36	30	28
175°	48	47	46	44	41	38	34	31	28	24	23
177.5°	27	27	27	26	25	24	22	21	20	19	18
180°	16	16	16	16	16	16	16	16	16	16	16



TEST NUMBER: P368730
 CATALOG NUMBER: 673-25-L3/840

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15	15	15	15	15	15	15	15	15	15
2.5°	17	16	16	15	15	15	14	14	14	14
5°	21	19	17	16	15	14	14	14	14	14
7.5°	26	22	19	16	15	14	14	14	14	14
10°	30	24	20	17	15	14	14	14	14	14
12.5°	34	27	22	18	15	14	14	14	14	14
15°	38	30	23	18	15	14	14	14	14	13
17.5°	43	32	25	19	15	14	14	14	13	13
20°	47	35	26	19	15	14	13	13	13	13
22.5°	51	38	27	20	15	13	13	13	13	13
25°	55	40	28	20	15	13	13	13	12	12
27.5°	60	43	30	21	15	13	12	12	12	12
30°	64	45	31	21	15	12	12	12	12	12
32.5°	68	47	32	21	15	11	11	11	11	11
35°	72	50	33	22	14	11	11	11	11	11
37.5°	76	52	34	22	14	10	10	10	10	10
40°	80	55	36	22	14	10	10	10	10	10
42.5°	84	57	37	22	13	9	9	9	9	9
45°	88	60	38	23	13	9	9	9	9	9
47.5°	92	62	39	23	13	8	8	8	8	8
50°	96	64	40	23	13	8	8	8	8	8
52.5°	99	66	41	24	13	7	7	7	7	7
55°	102	68	42	24	12	7	7	7	7	7
57.5°	105	69	43	24	12	6	6	6	6	6
60°	108	71	43	24	12	6	6	6	6	6
62.5°	111	73	44	24	11	6	6	6	5	5
65°	113	74	45	24	11	5	5	5	5	5
67.5°	115	75	45	24	11	5	5	5	5	5
70°	117	76	46	24	11	4	4	4	4	4
72.5°	119	77	46	24	10	4	4	4	4	4
75°	120	78	46	24	10	4	3	3	3	3
77.5°	122	79	46	24	10	3	3	3	3	3
80°	122	79	47	24	10	3	3	3	3	3
82.5°	123	79	46	24	9	2	2	2	2	2
85°	123	79	46	23	9	2	2	2	2	2
87.5°	123	79	46	23	9	2	2	2	2	2
88°	123	80	46	23	9	2	2	2	2	2
90°	124	80	47	23	9	2	2	2	2	2
92.5°	124	80	47	23	9	2	2	2	2	2
95°	124	80	47	23	9	2	2	2	2	2
97.5°	123	79	47	24	9	2	2	2	2	2
100°	122	79	47	24	9	3	3	3	3	3
102.5°	122	79	47	24	10	3	3	3	3	3
105°	120	78	46	24	10	4	4	4	4	4
107.5°	119	77	46	24	11	4	4	4	4	4



TEST NUMBER: P368730
 CATALOG NUMBER: 673-25-L3/840

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	117	76	46	24	11	5	5	5	5	5
112.5°	115	75	45	24	11	5	5	5	5	5
115°	113	74	45	24	12	6	6	6	6	6
117.5°	110	73	44	24	12	6	6	6	6	6
120°	107	71	44	24	12	7	7	7	7	7
122.5°	105	70	43	24	13	7	7	7	7	7
125°	102	68	42	24	13	8	8	8	8	8
127.5°	98	66	41	24	13	8	8	8	8	8
130°	95	64	40	24	14	9	9	9	9	9
132.5°	92	62	39	23	14	9	9	9	9	9
135°	88	60	38	23	14	10	9	9	9	9
137.5°	84	57	37	23	14	10	10	10	10	10
140°	80	55	36	23	14	10	10	10	10	10
142.5°	76	53	35	22	15	11	11	11	11	11
145°	72	50	34	22	15	11	11	11	11	11
147.5°	68	48	32	22	15	12	12	12	11	12
150°	64	45	31	21	15	12	12	12	12	12
152.5°	59	43	30	21	15	13	13	13	12	13
155°	55	40	28	21	16	13	13	13	13	13
157.5°	51	37	27	20	16	14	13	13	13	13
160°	46	35	26	20	16	14	14	14	14	14
162.5°	42	32	25	19	16	14	14	14	14	14
165°	38	30	23	19	16	14	14	14	14	14
167.5°	34	27	22	18	16	15	15	14	14	14
170°	30	24	20	17	16	15	15	14	14	14
172.5°	26	22	19	17	15	15	15	14	14	14
175°	21	19	17	16	15	15	15	15	14	14
177.5°	18	17	16	16	15	15	15	15	15	15
180°	16	16	16	16	16	16	16	16	16	16

(END OF REPORT)