

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: CORELITE

Report Number: P13896

Luminaire Tested: **J2S-M-2L40-1C-UNV-SU-WA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P13896
Test Lab: INNOVATION CENTER P-1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2S-M-2L40-1C-UNV-SU-WA
Description: CORELITE 2' WALL MOUNTED LED FIXTURE WITH WHITE PAINTED REFLECTOR AND CLEAR MICRO PRISMATIC LENS. TEST RAN WITH 0.8 AMP RESISTOR INSTALLED.
Light Source: (49) ULM 4000K LED
1UT217049840
Ballast/Driver: (1) ADVANCE ELECTRONIC DRIVER
XI025C100V036XPL1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1395.9 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 13.79 / 2.01 / 8.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.04' x H: 1.62')
CIE Type: General Diffuse

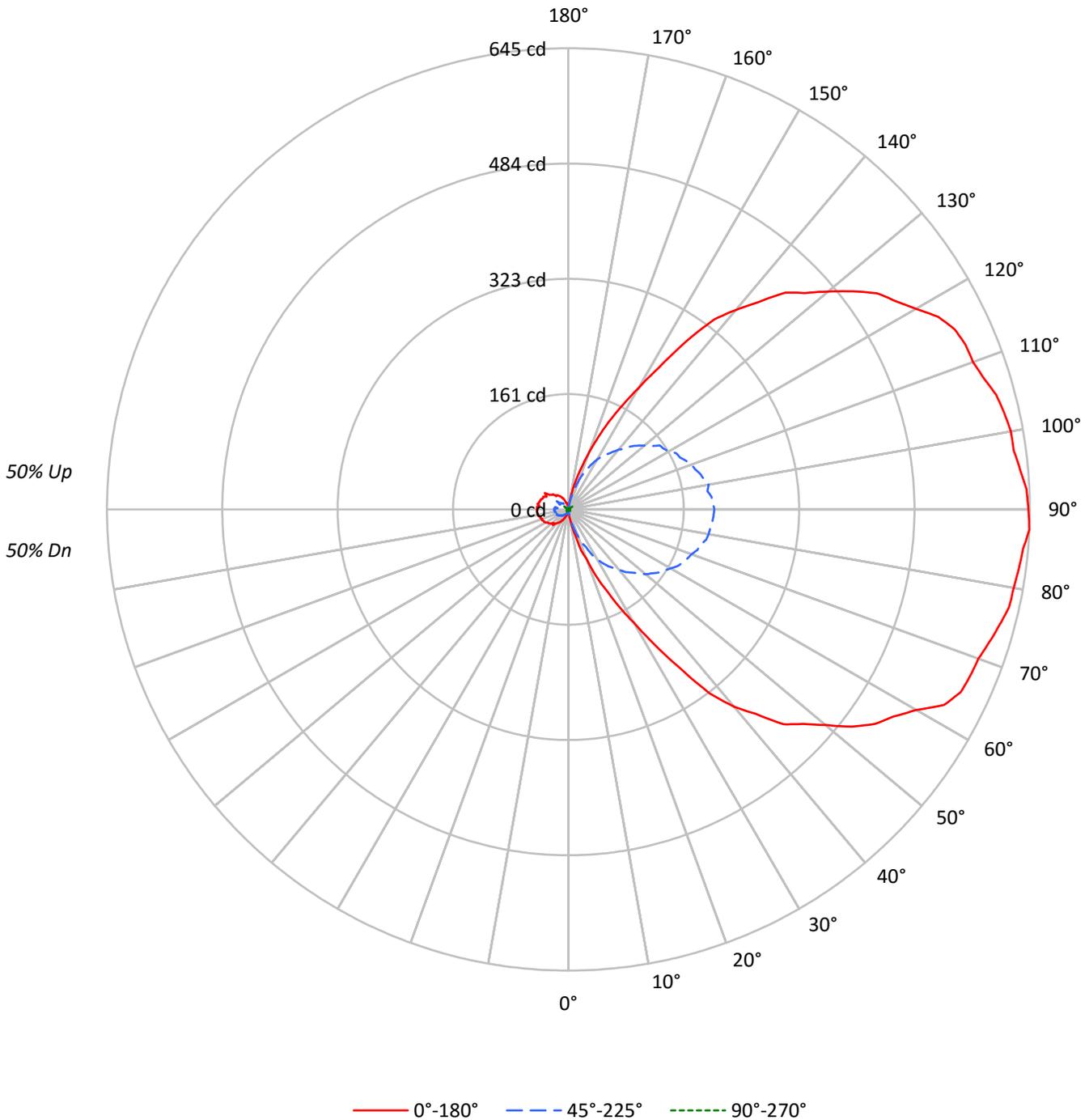
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (A_{in}): 0.79290
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	56	56	56	50
1	92	85	78	73	83	77	72	67	64	59	55	51	48	45	40	37	35	29
2	81	70	62	54	73	64	56	50	52	46	41	41	37	33	31	28	25	20
3	72	60	50	42	65	54	46	39	44	37	32	35	29	25	26	22	18	14
4	65	52	42	34	59	47	38	31	38	31	25	30	24	20	22	18	14	10
5	59	45	35	28	53	41	32	25	33	26	21	26	20	16	19	15	11	8
6	54	40	30	23	49	36	28	21	29	22	17	23	17	13	17	13	9	6
7	50	35	26	20	45	32	24	18	26	19	14	20	15	11	15	11	8	5
8	46	32	23	17	41	29	21	15	24	17	12	18	13	9	14	10	6	4
9	43	29	20	15	39	26	19	13	21	15	11	17	12	8	12	8	5	3
10	40	26	18	13	36	24	17	12	20	13	9	15	10	7	11	8	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1378	1378	1378
5°	940	1003	313
10°	1332	397	355
15°	2367	660	498
20°	3522	284	482
25°	4873	0	555
30°	6190	227	609
35°	7991	834	654
40°	9599	194	667
45°	10351	548	755
50°	10587	348	700
55°	11079	501	720
60°	11275	324	744
65°	11652	317	732
70°	11360	0	726
75°	11333	0	726
80°	11285	310	768
85°	11287	313	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.0
10°-20°	4.3	0.3
20°-30°	16.8	1.2
30°-40°	41.4	3.0
40°-50°	72.5	5.2
50°-60°	105.7	7.6
60°-70°	135.2	9.7
70°-80°	155.8	11.2
80°-90°	167.4	12.0
90°-100°	165.5	11.9
100°-110°	154.9	11.1
110°-120°	133.2	9.5
120°-130°	106.1	7.6
130°-140°	72.1	5.2
140°-150°	42.0	3.0
150°-160°	17.9	1.3
160°-170°	4.5	0.3
170°-180°	0.2	0.0
0°-30°	21.4	1.5
0°-40°	62.8	4.5
0°-60°	241.0	17.3
0°-90°	699.5	50.1
90°-120°	453.6	32.5
90°-150°	673.8	48.3
90°-180°	696.0	49.9
0°-180°	1395.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2	2	2	2	2	
5°	6	5	2	3	2	1
15°	38	23	2	3	8	13
25°	123	58	0	2	14	60
35°	269	97	4	9	22	173
45°	425	125	3	13	31	325
55°	523	154	3	14	34	466
65°	605	176	2	18	38	593
75°	624	191	0	16	40	659
85°	638	202	2	20	44	521
90°	643	204	2	20	44	352
95°	634	201	2	20	44	516
105°	619	191	2	19	42	653
115°	596	172	1	16	39	586
125°	527	156	7	20	40	469
135°	429	125	1	12	30	328
145°	286	94	2	10	23	181
155°	137	63	1	7	17	65
165°	46	25	1	4	9	14
175°	0	1	1	0	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2	2	2	2	2	2	2	2	2	2	2
2.5°	2	2	2	3	2	2	2	3	2	2	2
5°	6	5	4	6	5	4	5	5	4	5	4
7.5°	9	9	8	8	10	8	7	8	7	6	9
10°	15	15	14	15	15	15	13	12	11	11	9
12.5°	25	24	24	24	23	23	21	20	17	17	14
15°	38	38	37	36	36	33	31	28	26	23	21
17.5°	61	59	55	55	50	49	44	44	35	33	28
20°	73	76	73	70	66	62	57	52	45	41	34
22.5°	101	100	97	94	88	84	75	67	58	52	44
25°	123	120	117	112	107	96	89	78	68	58	46
27.5°	153	154	148	144	139	121	111	97	83	72	58
30°	183	192	183	173	171	145	129	113	94	81	65
32.5°	224	229	223	203	198	168	152	129	106	89	73
35°	269	273	260	230	224	194	172	142	118	97	79
37.5°	324	311	294	263	248	215	192	161	130	103	86
40°	360	351	329	297	274	240	210	178	142	110	90
42.5°	388	387	369	330	301	261	230	188	156	119	93
45°	425	414	410	365	329	287	250	204	168	125	98
47.5°	444	440	439	396	356	309	273	213	180	132	102
50°	469	468	460	436	385	339	290	232	192	141	106
52.5°	499	498	479	466	419	360	309	242	207	147	109
55°	523	521	499	490	457	385	325	260	217	154	115
57.5°	539	535	520	505	487	409	341	276	227	159	119
60°	561	555	544	528	514	431	358	291	239	165	124
62.5°	592	576	555	548	533	453	374	306	249	172	127
65°	605	589	565	562	546	475	388	323	255	176	130
67.5°	608	599	572	565	568	496	401	335	261	180	132
70°	610	607	585	570	569	512	411	342	265	183	132
72.5°	617	622	602	585	574	530	424	354	273	189	136
75°	624	631	616	602	581	545	437	359	275	191	136
77.5°	631	643	626	613	593	558	448	366	282	197	140
80°	632	644	628	615	596	566	454	369	285	199	141
82.5°	635	648	630	618	599	571	458	373	287	200	142
85°	638	652	634	621	601	574	463	375	289	202	143
87.5°	645	659	638	627	606	577	466	377	292	203	143
90°	643	659	638	627	607	578	469	377	293	204	144
92.5°	641	655	634	622	602	572	463	375	289	202	143
95°	634	649	631	619	598	571	461	374	288	201	142
97.5°	628	643	625	612	590	562	453	365	283	196	137
100°	628	642	627	612	593	564	453	369	285	199	140
102.5°	624	640	624	608	587	556	445	363	280	194	138
105°	619	631	616	598	577	544	434	357	274	191	137
107.5°	609	618	600	586	566	528	421	351	269	186	133
110°	602	606	585	575	562	511	410	343	264	183	131



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	601	594	572	565	559	490	399	334	258	178	130
115°	596	584	563	559	544	468	387	319	249	172	124
117.5°	583	568	555	548	524	449	373	307	245	170	124
120°	561	547	535	528	509	426	355	291	235	162	119
122.5°	542	534	521	511	490	410	341	280	227	158	117
125°	527	519	508	497	465	393	328	269	221	156	119
127.5°	501	495	478	470	425	364	306	246	205	145	109
130°	474	467	459	443	392	341	288	230	195	139	105
132.5°	448	439	440	406	364	316	272	215	184	132	100
135°	429	414	414	369	336	289	253	201	172	125	96
137.5°	393	383	374	331	304	260	228	182	159	115	92
140°	364	360	334	302	280	239	211	171	146	109	90
142.5°	335	322	300	273	253	219	192	159	134	101	84
145°	286	284	265	243	228	194	175	146	122	94	79
147.5°	235	247	235	213	203	174	158	131	110	88	73
150°	196	205	199	183	178	151	140	115	98	81	66
152.5°	165	170	164	152	150	130	119	100	86	72	59
155°	137	137	131	126	124	108	98	85	73	63	52
157.5°	110	108	103	102	98	87	81	71	61	54	43
160°	85	84	81	79	75	67	63	56	48	44	36
162.5°	62	64	63	61	56	53	48	44	38	34	29
165°	46	46	45	43	41	39	36	34	28	25	22
167.5°	28	27	26	26	24	24	21	20	18	15	14
170°	12	12	12	12	13	12	10	10	9	8	7
172.5°	4	4	3	4	4	4	4	4	4	4	3
175°	0	0	0	1	1	1	1	1	1	1	2
177.5°	1	0	0	1	1	1	1	2	2	1	1
180°	1	1	1	1	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
0°	2	2	2	2	2	2	2	2	2	2	2
2.5°	2	3	2	3	2	3	1	2	1	0	0
5°	5	4	4	4	2	3	2	2	2	3	2
7.5°	5	5	5	5	3	2	2	1	2	1	1
10°	8	8	6	6	4	3	2	1	2	2	4
12.5°	13	11	8	11	5	4	2	2	2	3	5
15°	17	15	11	11	8	5	3	2	3	3	6
17.5°	26	22	17	13	10	7	4	1	5	6	10
20°	28	24	18	16	11	8	5	1	3	4	9
22.5°	37	30	24	23	15	10	6	2	4	6	11
25°	38	30	22	21	15	8	2	0	1	2	8
27.5°	48	38	29	25	20	13	6	1	5	7	14
30°	53	43	31	27	20	15	6	1	5	7	15
32.5°	57	47	35	30	24	16	8	2	5	9	16
35°	60	49	36	34	25	18	8	4	7	9	18
37.5°	64	50	38	34	27	18	8	2	6	10	18
40°	70	53	39	34	28	19	9	1	7	11	21
42.5°	74	55	41	35	29	21	9	2	7	12	21
45°	77	57	41	36	29	20	10	3	8	13	20
47.5°	75	54	42	34	27	20	10	0	4	12	19
50°	79	57	43	37	29	21	9	2	9	14	22
52.5°	79	56	41	35	30	20	9	1	6	14	23
55°	83	58	43	38	30	21	9	3	8	14	23
57.5°	84	57	43	37	30	21	9	1	8	16	24
60°	86	57	43	38	30	21	10	2	8	16	24
62.5°	88	59	45	38	31	22	10	3	10	17	25
65°	90	60	47	37	30	21	9	2	9	18	26
67.5°	90	60	44	37	30	20	10	2	9	17	26
70°	90	57	42	35	27	20	10	0	6	15	22
72.5°	93	62	45	37	30	21	10	2	10	19	26
75°	92	61	43	35	28	19	8	0	8	16	26
77.5°	95	62	44	37	30	21	10	2	10	19	26
80°	95	61	43	37	29	20	10	2	10	19	25
82.5°	96	58	44	37	29	20	10	2	10	19	26
85°	97	62	45	37	29	21	11	2	11	20	26
87.5°	95	62	43	37	29	20	10	2	10	20	26
90°	96	61	44	36	29	21	10	2	10	20	25
92.5°	95	60	43	37	28	20	8	2	8	18	25
95°	95	61	43	36	28	20	10	2	10	20	25
97.5°	92	58	41	32	24	16	6	0	7	15	21
100°	95	62	44	37	29	20	10	2	10	19	24
102.5°	95	60	42	37	28	19	10	1	9	18	22
105°	93	61	43	37	28	20	10	2	10	19	23
107.5°	91	61	44	37	28	20	9	2	9	18	21
110°	91	60	44	37	28	21	10	2	9	18	21



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
112.5°	90	60	43	36	29	20	9	1	9	18	21
115°	86	56	43	32	28	20	9	1	9	16	19
117.5°	85	57	45	37	29	21	9	1	9	17	19
120°	80	54	41	35	27	17	7	0	6	13	17
122.5°	82	55	43	37	29	21	10	2	8	16	19
125°	86	60	47	43	34	26	14	7	14	20	23
127.5°	78	54	41	35	29	20	9	2	7	14	17
130°	77	55	42	35	29	20	9	1	8	14	17
132.5°	75	55	42	35	28	19	7	2	8	13	16
135°	74	54	41	35	28	19	8	1	8	12	16
137.5°	69	50	38	33	25	17	6	0	5	10	13
140°	69	51	38	32	27	19	8	1	7	11	15
142.5°	64	48	36	33	25	17	7	1	6	11	15
145°	61	46	37	32	25	17	7	2	7	10	14
147.5°	55	45	35	29	24	17	7	2	6	9	14
150°	51	42	31	27	22	14	7	1	5	9	12
152.5°	47	37	28	26	19	13	6	1	4	8	12
155°	43	33	26	22	17	10	4	1	4	7	11
157.5°	37	30	23	20	14	10	4	1	4	6	10
160°	29	23	18	15	11	6	2	0	2	4	8
162.5°	23	20	16	13	9	6	2	1	3	4	8
165°	18	17	11	10	7	5	3	1	3	4	10
167.5°	12	10	8	7	5	3	2	1	2	3	6
170°	7	6	4	5	4	2	2	1	2	2	5
172.5°	4	3	3	3	2	1	1	1	1	2	3
175°	1	2	1	1	1	1	1	1	1	0	1
177.5°	2	2	1	2	1	1	1	1	1	0	0
180°	1	1	1	1	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	180°
0°	2
2.5°	0
5°	2
7.5°	2
10°	4
12.5°	5
15°	8
17.5°	9
20°	10
22.5°	13
25°	14
27.5°	17
30°	18
32.5°	21
35°	22
37.5°	24
40°	25
42.5°	27
45°	31
47.5°	28
50°	31
52.5°	32
55°	34
57.5°	34
60°	37
62.5°	38
65°	38
67.5°	40
70°	39
72.5°	41
75°	40
77.5°	43
80°	43
82.5°	43
85°	44
87.5°	44
90°	44
92.5°	44
95°	44
97.5°	41
100°	44
102.5°	42
105°	42
107.5°	41
110°	41



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CANDELA DISTRIBUTION (continued):

	180°
112.5°	39
115°	39
117.5°	39
120°	35
122.5°	37
125°	40
127.5°	33
130°	32
132.5°	30
135°	30
137.5°	25
140°	26
142.5°	25
145°	23
147.5°	22
150°	20
152.5°	18
155°	17
157.5°	14
160°	10
162.5°	10
165°	9
167.5°	7
170°	5
172.5°	4
175°	1
177.5°	0
180°	1

(END OF REPORT)