

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: P511726

Luminaire Tested: **SQW-F-025U-050D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511726  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-15,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-025U-050D-835-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

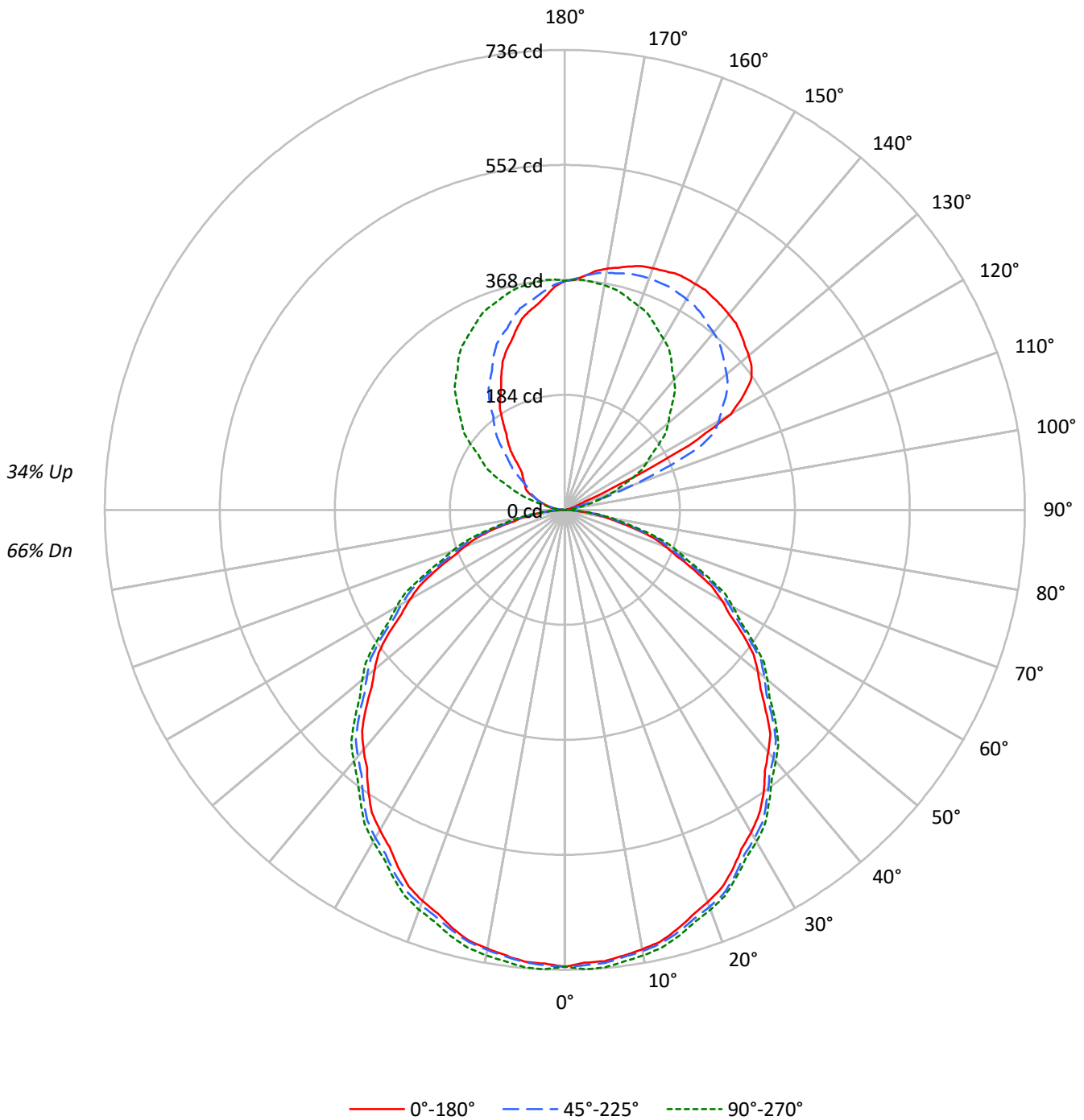
Lumens per Lamp: N/A  
Luminaire Lumens: 2998.4 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 24.6  
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: 24 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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66
1	101	97	93	89	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	69	71	67	63	63	59	56	55	53	50	47
3	84	74	67	61	79	70	63	58	63	57	53	55	51	48	49	46	43	39
4	77	66	58	51	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	43	39	44	39	35	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25
7	60	48	39	34	57	45	38	32	41	34	30	36	31	27	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	24	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18
10	49	36	29	24	46	35	28	23	31	26	21	28	23	20	25	21	18	16

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

	0°	90°	180°
0°	23605	23605	23605
5°	23501	23825	23533
10°	23412	23740	23379
15°	23235	23602	23168
20°	22955	23402	22887
25°	22625	23124	22483
30°	22223	22857	22074
35°	21839	22470	21603
40°	21330	22131	21119
45°	20779	21738	20550
50°	20246	21250	19944
55°	19592	20718	19311
60°	18729	20086	18471
65°	17498	19102	17268
70°	16145	18033	15956
75°	14223	16344	14099
80°	11530	13761	11716
85°	6669	9263	7781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	2.3
10°-20°	196.7	6.6
20°-30°	294.7	9.8
30°-40°	350.3	11.7
40°-50°	358.5	12.0
50°-60°	319.7	10.7
60°-70°	237.2	7.9
70°-80°	129.9	4.3
80°-90°	30.9	1.0
90°-100°	9.0	0.3
100°-110°	41.0	1.4
110°-120°	119.0	4.0
120°-130°	179.6	6.0
130°-140°	192.3	6.4
140°-150°	183.8	6.1
150°-160°	152.2	5.1
160°-170°	99.9	3.3
170°-180°	34.7	1.2
0°-30°	560.4	18.7
0°-40°	910.7	30.4
0°-60°	1588.9	53.0
0°-90°	1986.8	66.3
90°-120°	169.0	5.6
90°-150°	724.8	24.2
90°-180°	1012.0	33.8
0°-180°	2998.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	731	731	731	731	731	
5°	725	728	735	727	726	69
15°	695	700	706	697	693	196
25°	635	645	649	643	631	292
35°	554	564	570	562	548	346
45°	455	469	476	465	450	351
55°	348	360	368	359	343	310
65°	229	240	250	239	226	227
75°	114	122	131	122	113	121
85°	18	24	25	26	21	25
90°	1	1	0	1	2	1
95°	3	3	7	12	10	3
105°	11	27	47	31	33	13
115°	94	238	117	58	64	126
125°	364	315	184	87	80	319
135°	398	356	244	144	110	308
145°	414	382	296	209	173	260
155°	417	394	333	270	240	193
165°	403	391	358	319	299	114
175°	376	376	369	353	344	36
180°	366	366	366	366	366	



TEST NUMBER: P511726

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	725.4	728.5	729.4	728.8	735.8	729.5	729.4	728.6	727.0
5°	725.0	726.0	728.0	726.2	735.0	726.2	727.0	725.0	726.0
7.5°	719.6	720.6	721.8	720.8	728.8	720.8	721.4	719.4	719.4
10°	714.0	715.0	717.0	715.2	724.0	715.2	715.0	713.0	713.0
12.5°	707.6	708.6	710.6	708.8	717.6	708.8	708.6	705.8	706.6
15°	695.0	697.9	700.0	697.2	706.0	697.2	697.0	695.0	693.0
17.5°	680.0	682.9	686.4	683.4	691.4	682.4	683.4	679.0	677.2
20°	668.0	670.9	676.0	672.2	681.0	671.2	673.0	667.0	666.0
22.5°	655.2	657.4	664.8	661.0	669.0	660.0	661.0	653.4	652.4
25°	635.0	637.0	645.0	642.2	649.0	640.2	643.0	632.0	631.0
27.5°	612.0	614.9	622.2	620.4	628.2	618.4	621.2	609.8	608.0
30°	596.0	598.9	607.0	605.2	613.0	603.2	606.0	593.0	592.0
32.5°	578.4	582.9	590.2	589.9	596.2	587.2	588.4	576.2	574.4
35°	554.0	556.9	564.0	564.1	570.0	562.2	562.0	550.0	548.0
37.5°	526.0	529.9	537.4	538.5	544.2	535.6	534.2	523.3	520.2
40°	506.0	509.9	519.0	520.1	525.0	517.2	515.0	504.9	501.0
42.5°	486.8	490.7	499.8	500.9	505.8	498.8	495.0	485.7	480.2
45°	455.0	459.9	469.0	472.1	476.0	469.2	465.0	453.9	450.0
47.5°	424.6	428.5	437.8	442.8	444.6	439.9	434.6	422.7	418.6
50°	403.0	406.9	417.0	422.0	423.0	419.1	413.0	401.9	397.0
52.5°	380.6	384.5	395.4	400.4	401.4	397.5	391.4	380.3	375.4
55°	348.0	351.9	360.0	368.0	368.0	366.0	359.0	346.9	343.0
57.5°	313.2	316.9	327.0	334.0	334.2	331.5	324.2	313.1	309.2
60°	290.0	292.9	303.0	310.0	311.0	309.0	301.0	289.9	286.0
62.5°	264.4	268.1	278.2	286.0	287.8	285.1	276.2	265.9	260.4
65°	229.0	231.0	240.0	248.0	250.0	247.1	239.0	228.9	226.0
67.5°	194.2	195.4	204.0	212.0	214.2	211.1	203.0	196.1	191.4
70°	171.0	173.0	180.0	188.1	191.0	187.1	179.0	172.9	169.0
72.5°	147.8	149.8	156.8	164.1	167.0	163.9	156.6	150.5	146.6
75°	114.0	115.0	122.0	129.0	131.0	128.1	122.0	116.9	113.0
77.5°	82.0	83.0	90.4	94.6	96.4	94.6	89.8	84.9	82.2
80°	62.0	63.0	68.0	73.0	74.0	73.0	69.0	65.0	63.0
82.5°	42.8	43.8	49.6	53.0	53.2	53.8	50.6	47.3	44.6
85°	18.0	19.0	24.0	27.0	25.0	27.9	26.0	23.0	21.0
87.5°	2.6	2.6	5.0	7.2	7.2	8.0	6.6	5.8	4.4
90°	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	2.0
92.5°	1.0	1.8	1.0	1.6	1.6	4.0	3.4	2.6	2.8
95°	3.0	3.0	3.0	7.1	7.1	10.0	12.1	11.1	10.1
97.5°	4.4	4.4	5.8	19.9	15.7	13.4	18.8	19.4	19.4
100°	6.0	6.0	9.1	31.1	22.2	18.2	21.2	24.2	24.2
102.5°	7.7	8.5	13.9	48.6	31.1	22.4	24.4	26.6	27.4
105°	11.1	12.1	27.2	82.9	47.4	30.6	31.3	32.3	33.3
107.5°	16.5	20.5	68.4	118.4	67.1	39.5	41.7	39.9	39.9
110°	22.2	30.1	115.9	140.8	81.7	46.2	47.4	46.4	46.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	35.1	58.7	173.2	159.3	96.2	54.4	52.2	54.4	52.8
115°	93.8	152.9	237.9	185.0	117.0	67.7	58.5	62.5	63.5
117.5°	223.4	267.4	269.8	206.5	138.3	82.5	63.5	68.2	70.2
120°	306.5	313.4	284.3	220.2	151.2	93.1	67.6	70.6	72.6
122.5°	338.0	331.4	297.2	233.1	164.1	105.2	74.0	73.8	75.8
125°	364.0	350.2	314.6	252.5	184.5	124.4	86.7	78.7	79.6
127.5°	376.9	363.1	328.9	268.5	203.7	144.7	102.6	85.5	84.7
130°	384.1	370.3	337.8	279.8	215.8	157.6	113.9	92.7	88.7
132.5°	390.6	377.6	345.8	288.8	227.9	169.7	126.0	101.5	96.0
135°	398.2	385.4	355.9	302.2	244.0	188.8	144.2	117.8	109.9
137.5°	405.1	393.3	365.2	314.2	260.9	205.9	162.5	136.9	128.2
140°	408.3	396.5	370.0	321.5	272.2	218.0	175.4	149.0	141.2
142.5°	411.6	400.5	374.9	328.8	281.9	230.0	188.3	161.9	154.1
145°	414.4	404.5	382.1	338.8	296.4	247.1	208.7	181.3	173.4
147.5°	417.4	407.0	386.8	347.4	308.3	264.0	227.1	200.7	193.0
150°	417.4	408.5	389.2	353.0	315.6	275.2	240.0	213.6	206.7
152.5°	418.2	408.5	391.6	357.9	323.6	285.6	252.1	226.5	220.4
155°	417.4	408.5	394.2	364.3	332.7	299.2	270.2	245.9	240.0
157.5°	413.8	408.1	394.2	368.0	342.0	311.2	285.9	266.8	258.5
160°	411.4	406.4	394.2	370.5	346.8	319.2	296.4	278.1	272.2
162.5°	408.9	404.0	393.4	373.0	351.7	326.4	305.3	287.8	283.5
165°	403.3	399.3	391.2	374.7	357.9	336.2	318.6	303.4	299.4
167.5°	397.0	394.3	387.6	375.8	362.6	345.6	330.3	318.5	314.0
170°	392.2	390.2	385.1	375.8	365.0	351.2	336.7	326.6	323.6
172.5°	385.7	384.6	381.9	374.3	366.6	355.2	344.0	334.7	331.7
175°	376.1	376.1	376.1	373.0	369.0	361.1	352.9	345.8	343.8
177.5°	368.4	369.2	370.0	369.2	369.2	365.3	361.1	357.1	357.9
180°	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0

(END OF REPORT)