

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: P511735

Luminaire Tested: **SQW-F-025U-075D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511735  
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-075D-935-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

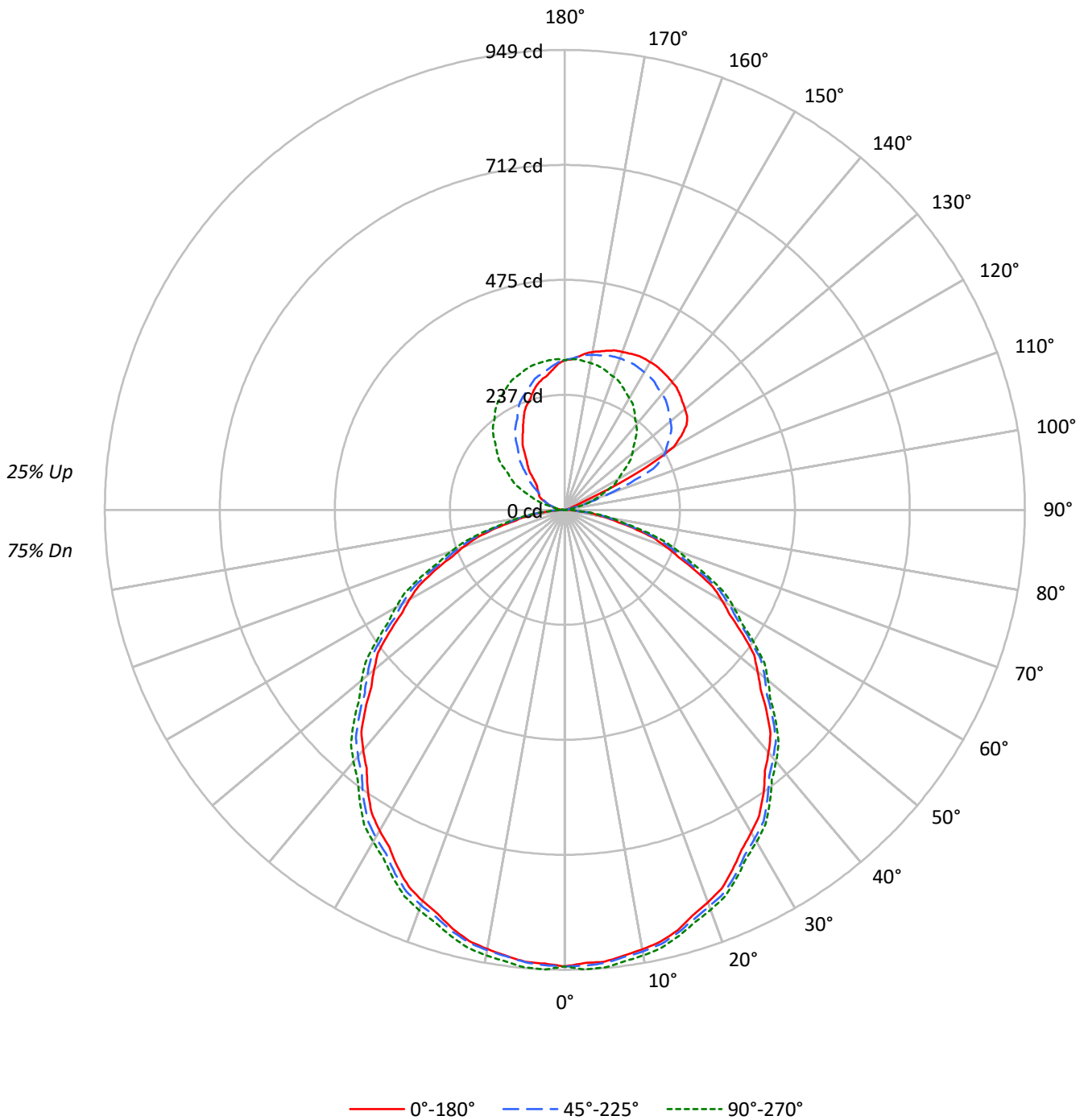
Lumens per Lamp: N/A  
Luminaire Lumens: 3420.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 34.7  
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: 24 FT



TEST NUMBER: P511735  
CATALOG NUMBER: SQW-F-025U-075D-935-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P511735

CATALOG NUMBER: SQW-F-025U-075D-935-1D-UNV-STD-W-4

**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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	87	85	83	80	77	75	73	70	68	67	63
2	94	86	80	74	89	82	76	72	75	70	66	68	64	61	61	59	56	53
3	86	76	68	62	81	72	65	60	66	60	56	60	55	52	54	51	48	44
4	78	67	59	52	74	64	57	51	59	52	47	53	48	44	48	44	41	38
5	72	60	51	45	68	57	49	44	52	46	41	48	42	38	44	39	36	33
6	66	54	45	39	63	52	44	38	47	41	36	43	38	33	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	31	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	26	33	28	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	22	20
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

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

	0°	90°	180°
0°	30419	30419	30419
5°	30344	30726	30344
10°	30196	30613	30170
15°	30028	30422	29914
20°	29619	30199	29502
25°	29178	29869	29028
30°	28678	29498	28491
35°	28158	29057	27926
40°	27552	28585	27269
45°	26885	28076	26574
50°	26098	27495	25802
55°	25261	26782	24929
60°	24180	25982	23909
65°	22747	24940	22556
70°	21017	23490	20866
75°	18303	21048	18303
80°	14747	17573	15212
85°	8448	11856	10004



TEST NUMBER: P511735

CATALOG NUMBER: SQW-F-025U-075D-935-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.0	2.6
10°-20°	253.8	7.4
20°-30°	380.3	11.1
30°-40°	452.1	13.2
40°-50°	462.8	13.5
50°-60°	412.7	12.1
60°-70°	308.3	9.0
70°-80°	168.1	4.9
80°-90°	39.7	1.2
90°-100°	7.6	0.2
100°-110°	34.6	1.0
110°-120°	100.4	2.9
120°-130°	151.5	4.4
130°-140°	162.2	4.7
140°-150°	155.0	4.5
150°-160°	128.3	3.8
160°-170°	84.3	2.5
170°-180°	29.2	0.9
0°-30°	723.1	21.1
0°-40°	1175.2	34.4
0°-60°	2050.7	60.0
0°-90°	2566.8	75.1
90°-120°	142.6	4.2
90°-150°	611.3	17.9
90°-180°	853.0	24.9
0°-180°	3420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	942	942	942	942	942	
5°	936	939	948	937	936	89
15°	898	903	910	900	895	253
25°	819	832	838	828	815	377
35°	714	729	737	724	708	446
45°	589	606	615	600	582	454
55°	449	466	476	461	443	400
65°	298	313	326	311	295	295
75°	147	158	169	159	147	157
85°	23	30	32	33	27	32
90°	1	1	0	1	2	1
95°	3	3	6	10	8	3
105°	9	23	40	26	28	11
115°	79	201	99	49	54	106
125°	307	265	156	73	67	269
135°	336	300	206	122	93	259
145°	350	322	250	176	146	219
155°	352	332	281	228	202	162
165°	340	330	302	269	252	97
175°	317	317	311	298	290	31
180°	309	309	309	309	309	



TEST NUMBER: P511735

CATALOG NUMBER: SQW-F-025U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	942.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0
2.5°	936.0	940.6	941.4	940.2	949.4	940.9	940.7	940.6	937.3
5°	936.1	936.1	938.7	937.2	947.9	937.2	937.0	935.3	936.1
7.5°	928.4	929.4	931.2	929.6	939.7	928.8	929.4	926.9	928.2
10°	920.9	922.6	925.2	922.9	933.6	922.0	922.6	920.1	920.1
12.5°	912.8	914.5	917.7	914.8	925.5	914.6	914.5	911.3	911.3
15°	898.2	899.8	903.2	900.1	910.0	898.4	899.9	895.6	894.8
17.5°	877.4	880.9	885.4	882.2	892.3	880.6	881.3	875.5	874.1
20°	861.9	866.0	871.2	868.1	878.8	866.4	867.8	859.4	858.5
22.5°	845.7	849.2	856.3	853.2	863.3	851.5	853.0	841.8	841.7
25°	818.9	822.2	831.5	829.2	838.3	826.8	828.2	815.5	814.7
27.5°	790.1	794.3	803.7	801.6	810.6	798.3	799.7	786.0	784.3
30°	769.1	774.1	783.5	782.0	791.1	778.7	780.1	765.7	764.1
32.5°	746.9	753.1	762.6	761.7	770.2	758.4	757.8	744.1	741.8
35°	714.3	719.3	728.7	729.7	737.1	726.4	724.4	710.9	708.4
37.5°	678.6	683.7	693.1	695.2	701.7	691.1	688.0	674.5	671.8
40°	653.6	659.4	668.8	672.3	678.1	668.2	663.7	650.2	646.9
42.5°	628.0	634.4	644.5	648.0	653.1	643.2	638.1	625.2	621.2
45°	588.7	595.3	606.4	610.7	614.8	605.7	599.6	586.0	581.9
47.5°	547.8	554.4	565.9	571.2	574.3	566.9	559.8	546.2	541.3
50°	519.5	526.1	538.9	544.9	547.3	539.9	532.2	518.6	513.6
52.5°	491.8	497.8	510.6	517.2	519.0	512.9	504.5	491.5	485.9
55°	448.7	454.4	466.4	474.0	475.7	470.7	461.3	447.7	442.8
57.5°	404.1	409.9	421.7	430.2	432.0	427.0	416.8	404.9	399.2
60°	374.4	380.2	391.3	399.8	402.3	397.3	387.1	375.2	370.2
62.5°	344.1	348.5	360.3	368.8	372.6	368.3	357.4	344.2	339.9
65°	297.7	302.7	312.9	323.1	326.4	323.1	311.2	299.3	295.2
67.5°	253.0	256.3	265.7	275.7	279.8	276.2	265.5	253.3	250.6
70°	222.6	225.9	235.3	244.7	248.8	243.8	234.5	224.3	221.0
72.5°	190.9	194.2	202.9	212.3	215.7	210.8	202.7	193.9	189.9
75°	146.7	150.0	157.7	165.4	168.7	165.4	158.6	150.9	146.7
77.5°	105.6	108.7	115.4	122.0	123.5	121.3	116.6	109.9	106.8
80°	79.3	81.7	87.7	93.6	94.5	93.6	90.2	84.3	81.8
82.5°	55.7	57.5	63.4	68.0	67.5	69.3	66.0	60.7	58.9
85°	22.8	24.4	29.5	34.5	32.0	36.2	32.9	29.5	27.0
87.5°	2.9	2.9	5.6	9.4	8.8	11.4	8.9	6.9	5.7
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	1.7
92.5°	0.9	1.5	0.9	1.4	1.4	3.4	2.9	2.2	2.4
95°	2.6	2.6	2.6	6.0	6.0	8.4	10.2	9.3	8.5
97.5°	3.7	3.7	4.9	16.8	13.3	11.3	15.8	16.3	16.3
100°	5.1	5.1	7.7	26.2	18.7	15.4	17.9	20.4	20.4
102.5°	6.5	7.1	11.7	41.0	26.2	18.9	20.6	22.5	23.1
105°	9.4	10.2	23.0	69.9	40.0	25.8	26.4	27.2	28.1
107.5°	13.9	17.3	57.6	99.9	56.6	33.4	35.2	33.7	33.7
110°	18.7	25.4	97.8	118.8	68.9	38.9	40.0	39.1	39.1



TEST NUMBER: P511735

CATALOG NUMBER: SQW-F-025U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	29.6	49.5	146.1	134.3	81.1	45.9	44.0	45.9	44.6
115°	79.1	129.0	200.7	156.0	98.6	57.1	49.3	52.7	53.6
117.5°	188.4	225.5	227.5	174.2	116.7	69.6	53.6	57.5	59.2
120°	258.5	264.3	239.8	185.7	127.5	78.5	57.0	59.6	61.2
122.5°	285.0	279.5	250.7	196.6	138.4	88.7	62.4	62.3	63.9
125°	307.0	295.3	265.3	213.0	155.6	104.9	73.1	66.3	67.2
127.5°	317.8	306.2	277.4	226.5	171.8	122.0	86.6	72.1	71.4
130°	324.0	312.3	284.8	236.0	182.0	132.9	96.1	78.2	74.8
132.5°	329.4	318.4	291.6	243.5	192.2	143.1	106.3	85.6	80.9
135°	335.9	325.1	300.2	254.8	205.8	159.2	121.6	99.3	92.7
137.5°	341.6	331.7	308.0	264.9	220.1	173.7	137.1	115.5	108.2
140°	344.4	334.4	312.1	271.1	229.6	183.9	147.9	125.7	119.0
142.5°	347.1	337.8	316.1	277.3	237.7	194.0	158.8	136.6	129.9
145°	349.5	341.2	322.3	285.7	250.0	208.4	176.0	152.9	146.2
147.5°	352.0	343.2	326.2	292.9	260.0	222.6	191.5	169.2	162.7
150°	352.0	344.5	328.2	297.7	266.1	232.1	202.4	180.1	174.3
152.5°	352.7	344.6	330.3	301.9	272.9	240.8	212.6	191.0	185.9
155°	352.0	344.5	332.5	307.2	280.6	252.3	227.9	207.4	202.4
157.5°	349.0	344.1	332.5	310.4	288.4	262.5	241.1	225.0	218.0
160°	346.9	342.8	332.5	312.5	292.5	269.2	250.0	234.6	229.6
162.5°	344.9	340.7	331.8	314.5	296.6	275.3	257.5	242.8	239.1
165°	340.1	336.8	329.9	316.0	301.9	283.6	268.7	255.9	252.5
167.5°	334.8	332.5	326.8	316.9	305.8	291.5	278.6	268.6	264.8
170°	330.8	329.1	324.8	316.9	307.8	296.2	284.0	275.4	272.9
172.5°	325.3	324.3	322.1	315.6	309.2	299.5	290.1	282.2	279.7
175°	317.2	317.2	317.2	314.5	311.2	304.6	297.6	291.6	289.9
177.5°	310.7	311.4	312.1	311.4	311.4	308.0	304.6	301.2	301.9
180°	308.7	308.7	308.7	308.7	308.7	308.7	308.7	308.7	308.7

(END OF REPORT)