

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: P522499

Luminaire Tested: **SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522499  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

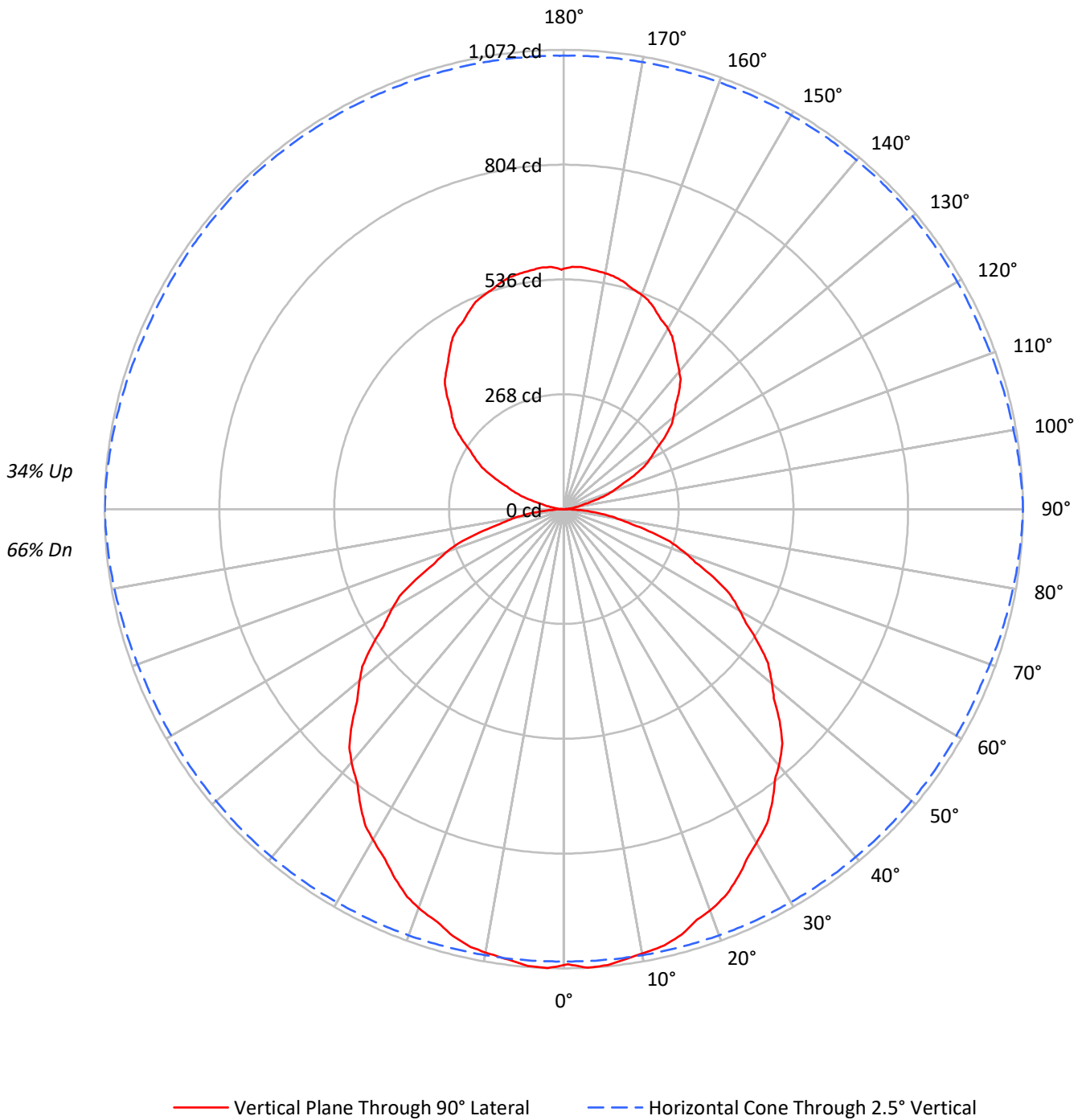
Lumens per Lamp: N/A  
Luminaire Lumens: 4518.1 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.4  
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	104	104	104	104	92	92	92	81	81	81	70	70	70	66
1	101	97	93	89	95	91	87	84	81	78	75	71	69	67	62	61	59	55
2	92	84	78	72	86	79	74	69	70	66	62	62	59	56	54	52	50	46
3	84	74	66	60	78	70	63	57	62	57	52	55	50	47	48	45	42	38
4	77	65	57	51	72	62	54	49	55	49	44	49	44	40	43	39	36	33
5	70	58	50	43	66	55	47	42	49	43	38	44	39	35	38	35	31	28
6	65	52	44	38	61	49	42	36	44	38	33	39	34	30	35	31	27	25
7	60	47	39	33	56	45	37	32	40	34	29	36	31	27	32	28	24	22
8	56	43	35	29	52	41	33	28	37	30	26	33	28	24	29	25	22	20
9	52	39	31	26	49	37	30	25	34	28	23	30	25	22	27	23	20	18
10	49	36	29	24	46	34	27	23	31	25	21	28	23	19	25	21	18	16

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

	0°	90°	180°
0°	17147	17147	17147
5°	17083	17326	17180
10°	16903	17247	17198
15°	16816	17217	17083
20°	16563	17079	16993
25°	16265	16889	16853
30°	15959	16686	16593
35°	15670	16517	16340
40°	15344	16356	16145
45°	15002	16121	15892
50°	14619	15774	15573
55°	14159	15482	15144
60°	13595	15113	14725
65°	12837	14632	14136
70°	11991	13973	13454
75°	10605	12726	12227
80°	8833	11158	10786
85°	5743	8707	8336



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	2.2
10°-20°	286.7	6.3
20°-30°	431.4	9.5
30°-40°	515.3	11.4
40°-50°	530.2	11.7
50°-60°	476.7	10.6
60°-70°	363.2	8.0
70°-80°	206.0	4.6
80°-90°	54.0	1.2
90°-100°	14.1	0.3
100°-110°	62.6	1.4
110°-120°	180.0	4.0
120°-130°	274.2	6.1
130°-140°	297.6	6.6
140°-150°	284.6	6.3
150°-160°	234.5	5.2
160°-170°	153.4	3.4
170°-180°	53.1	1.2
0°-30°	818.5	18.1
0°-40°	1333.8	29.5
0°-60°	2340.7	51.8
0°-90°	2963.9	65.6
90°-120°	256.8	5.7
90°-150°	1113.2	24.6
90°-180°	1554.0	34.4
0°-180°	4518.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1062	1062	1062	1062	1062	
5°	1054	1055	1069	1062	1060	100
15°	1006	1011	1030	1025	1022	283
25°	913	933	948	954	946	420
35°	795	816	838	843	829	497
45°	657	676	706	703	696	506
55°	503	523	550	547	538	449
65°	336	357	383	380	370	333
75°	170	184	204	202	196	181
85°	31	40	47	50	45	40
90°	0	0	0	0	0	1
95°	2	3	10	22	21	3
105°	14	38	72	50	53	16
115°	135	355	181	85	95	187
125°	536	467	289	143	122	471
135°	591	535	384	238	189	456
145°	619	576	458	338	289	388
155°	625	599	512	424	387	289
165°	612	596	549	494	470	174
175°	576	577	566	541	528	56
180°	559	559	559	559	559	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0
2.5°	1055.6	1058.7	1060.4	1056.7	1071.6	1059.1	1063.6	1060.3	1058.0
5°	1054.0	1053.0	1055.0	1051.4	1069.0	1055.3	1062.0	1057.1	1060.0
7.5°	1043.8	1041.8	1045.4	1045.9	1059.2	1049.2	1053.2	1051.9	1055.4
10°	1031.0	1033.0	1039.0	1040.3	1052.0	1041.2	1046.0	1047.0	1049.0
12.5°	1025.4	1021.9	1028.6	1032.3	1044.8	1031.7	1040.4	1039.9	1043.4
15°	1006.0	1005.0	1011.0	1014.4	1030.0	1018.3	1025.0	1024.9	1022.0
17.5°	981.6	981.6	989.6	991.2	1007.6	999.0	1005.6	1002.6	1001.8
20°	964.0	964.0	976.0	974.4	994.0	986.2	992.0	985.1	989.0
22.5°	944.0	944.8	959.2	956.8	975.6	970.9	977.6	967.5	972.2
25°	913.0	915.9	933.0	931.4	948.0	943.1	954.0	942.1	946.0
27.5°	880.0	884.1	901.2	901.0	917.4	913.9	926.4	912.6	913.2
30°	856.0	860.9	878.0	879.4	895.0	889.1	904.0	891.0	890.0
32.5°	832.8	836.9	854.0	857.0	872.6	869.1	880.8	867.8	866.0
35°	795.0	799.9	816.0	821.4	838.0	833.1	843.0	831.0	829.0
37.5°	756.0	759.1	776.2	780.9	800.8	796.7	803.0	791.4	791.6
40°	728.0	731.9	749.0	754.5	776.0	771.1	775.0	765.0	766.0
42.5°	700.0	703.9	720.2	728.1	748.0	743.1	746.2	737.8	738.0
45°	657.0	659.9	676.0	686.4	706.0	701.1	703.0	695.0	696.0
47.5°	612.4	614.6	629.2	643.8	660.0	657.8	658.2	648.3	651.2
50°	582.0	584.9	598.0	613.3	628.0	629.0	627.0	617.1	620.0
52.5°	550.8	553.0	568.4	581.4	596.8	598.6	595.0	585.8	588.0
55°	503.0	505.0	523.0	536.3	550.0	551.0	547.0	540.0	538.0
57.5°	453.8	456.7	473.6	488.1	501.6	499.8	497.8	489.6	488.0
60°	421.0	423.9	440.0	455.3	468.0	467.0	465.0	456.0	456.0
62.5°	387.4	391.1	408.0	421.7	434.4	434.2	431.4	424.8	423.2
65°	336.0	339.9	357.0	369.3	383.0	383.0	380.0	372.0	370.0
67.5°	286.8	290.7	304.8	317.5	331.2	330.0	327.2	322.1	319.4
70°	254.0	257.9	268.0	282.3	296.0	294.0	292.0	287.0	285.0
72.5°	218.8	223.5	233.6	246.3	259.2	258.8	256.8	254.1	249.8
75°	170.0	172.9	184.0	195.2	204.0	205.0	202.0	200.9	196.0
77.5°	123.8	127.5	136.6	146.3	152.8	155.9	154.2	151.7	148.0
80°	95.0	97.9	107.0	115.1	120.0	123.9	123.0	118.9	116.0
82.5°	67.8	70.7	78.2	85.5	89.6	93.5	92.6	90.1	85.6
85°	31.0	33.0	40.0	45.0	47.0	51.9	50.0	47.9	45.0
87.5°	4.8	5.6	10.4	15.2	14.4	19.1	16.8	13.5	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.4	0.4	0.8	1.3	2.1	7.8	8.8	7.9	7.5
95°	2.1	2.1	3.1	9.9	9.9	16.0	21.9	21.4	21.4
97.5°	4.7	5.2	7.3	30.2	22.5	21.9	31.3	34.4	34.7
100°	6.8	7.3	11.5	49.1	33.4	28.3	33.4	40.7	42.2
102.5°	9.3	10.2	18.1	77.6	47.1	33.9	39.2	44.4	46.0
105°	14.1	15.6	38.0	130.0	71.9	44.9	49.5	52.1	52.6
107.5°	21.2	26.9	104.1	182.9	102.0	59.4	62.1	63.9	64.5
110°	28.7	40.9	180.8	214.7	124.5	70.5	68.8	73.5	72.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	48.3	84.1	265.5	240.9	147.1	83.7	75.0	82.7	83.3
115°	135.0	231.8	354.9	278.2	181.4	106.4	84.9	92.3	95.4
117.5°	338.7	403.0	402.0	312.6	214.3	133.3	96.8	100.3	103.8
120°	455.5	465.1	425.8	335.9	235.5	152.5	106.8	105.3	108.4
122.5°	498.8	491.0	443.7	356.4	257.2	172.5	119.8	110.7	113.4
125°	536.2	521.0	466.9	385.5	289.2	202.1	143.3	122.5	121.9
127.5°	557.0	541.0	489.7	410.8	318.6	232.8	170.1	139.0	134.3
130°	567.0	552.2	505.5	426.4	338.2	253.6	189.7	153.6	146.4
132.5°	579.1	563.1	516.7	442.3	357.0	273.2	209.3	171.1	162.7
135°	591.0	576.2	535.2	463.0	383.5	302.0	237.6	199.9	189.2
137.5°	601.6	588.0	552.1	479.4	407.5	330.4	267.7	230.9	217.8
140°	608.7	593.9	559.2	491.9	422.1	348.2	287.7	251.0	240.8
142.5°	611.2	602.1	566.7	502.5	438.4	365.3	307.7	269.7	260.4
145°	618.6	612.5	575.8	515.1	457.5	390.8	338.2	298.9	288.7
147.5°	623.4	614.2	584.3	528.8	476.3	413.6	365.9	328.2	318.7
150°	623.8	616.7	591.0	537.2	488.8	430.2	383.0	347.4	338.7
152.5°	627.1	618.4	594.3	544.4	498.0	444.3	400.1	367.0	357.5
155°	624.8	618.7	599.3	553.5	512.3	462.3	424.2	394.8	386.7
157.5°	624.8	617.3	599.9	560.7	526.0	482.2	446.7	419.6	413.5
160°	620.7	617.6	600.3	565.7	533.1	493.4	461.7	437.0	428.9
162.5°	619.0	613.9	601.2	569.1	539.4	502.5	474.6	451.3	445.1
165°	611.8	607.2	596.2	570.7	549.3	518.7	493.5	472.6	469.5
167.5°	603.6	600.0	592.7	573.2	555.8	530.9	509.7	492.8	488.6
170°	597.7	592.1	589.4	574.5	559.2	538.3	520.1	504.9	500.3
172.5°	587.7	587.0	584.8	571.3	562.1	544.9	529.7	515.7	512.8
175°	575.8	575.8	577.4	569.0	565.9	551.7	540.9	532.5	527.9
177.5°	562.1	562.5	565.8	565.4	565.8	557.7	554.6	546.6	545.8
180°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2

(END OF REPORT)