

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: P522498

Luminaire Tested: **SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522498  
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 (3000K)  
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 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

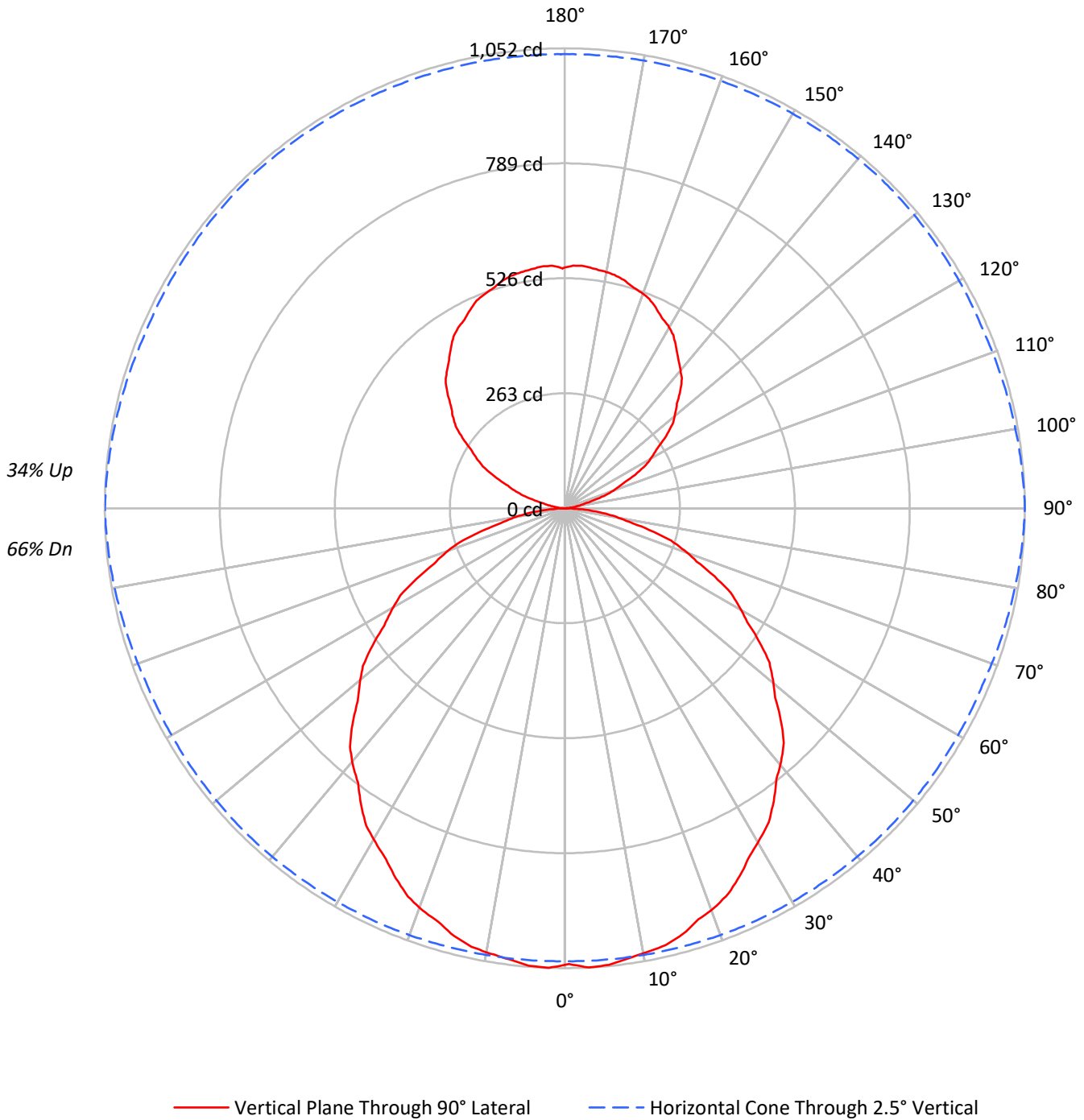
Lumens per Lamp: N/A  
Luminaire Lumens: 4433.2 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

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°	16824	16824	16824
5°	16762	17000	16857
10°	16585	16923	16875
15°	16500	16893	16762
20°	16252	16758	16673
25°	15959	16571	16536
30°	15659	16373	16281
35°	15376	16208	16032
40°	15055	16048	15841
45°	14721	15817	15593
50°	14345	15478	15282
55°	13892	15192	14860
60°	13340	14828	14447
65°	12596	14357	13868
70°	11764	13709	13199
75°	10405	12489	11996
80°	8666	10944	10581
85°	5632	8540	8188



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	2.2
10°-20°	281.3	6.3
20°-30°	423.3	9.5
30°-40°	505.6	11.4
40°-50°	520.3	11.7
50°-60°	467.7	10.6
60°-70°	356.3	8.0
70°-80°	202.2	4.6
80°-90°	53.0	1.2
90°-100°	13.9	0.3
100°-110°	61.5	1.4
110°-120°	176.6	4.0
120°-130°	269.0	6.1
130°-140°	292.0	6.6
140°-150°	279.3	6.3
150°-160°	230.1	5.2
160°-170°	150.6	3.4
170°-180°	52.1	1.2
0°-30°	803.1	18.1
0°-40°	1308.7	29.5
0°-60°	2296.7	51.8
0°-90°	2908.2	65.6
90°-120°	251.9	5.7
90°-150°	1092.3	24.6
90°-180°	1525.0	34.4
0°-180°	4433.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1034	1035	1049	1042	1040	98
15°	987	992	1011	1006	1003	278
25°	896	916	930	936	928	413
35°	780	801	822	827	813	488
45°	645	663	693	690	683	497
55°	494	513	540	537	528	441
65°	330	350	376	373	363	327
75°	167	180	200	198	192	178
85°	30	39	46	49	44	40
90°	0	0	0	0	0	1
95°	2	3	10	22	21	3
105°	14	37	71	49	52	16
115°	132	348	178	83	94	183
125°	526	458	284	141	120	462
135°	580	525	376	233	186	448
145°	607	565	449	332	283	380
155°	613	588	503	416	379	284
165°	600	585	539	484	461	170
175°	565	567	555	531	518	55
180°	549	549	549	549	549	



TEST NUMBER: P522498

CATALOG NUMBER: SQW-F-025U-075D-93050-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0
2.5°	1035.8	1038.8	1040.5	1036.9	1051.5	1039.2	1043.6	1040.4	1038.1
5°	1034.2	1033.2	1035.2	1031.6	1048.9	1035.5	1042.0	1037.2	1040.1
7.5°	1024.2	1022.3	1025.8	1026.3	1039.3	1029.5	1033.4	1032.1	1035.6
10°	1011.6	1013.5	1019.5	1020.7	1032.2	1021.7	1026.3	1027.4	1029.3
12.5°	1006.1	1002.7	1009.3	1012.9	1025.2	1012.3	1020.9	1020.3	1023.8
15°	987.1	986.1	992.0	995.3	1010.6	999.1	1005.7	1005.7	1002.8
17.5°	963.2	963.2	971.0	972.5	988.7	980.2	986.7	983.7	983.0
20°	945.9	945.9	957.7	956.1	975.3	967.6	973.4	966.6	970.4
22.5°	926.3	927.0	941.2	938.8	957.3	952.7	959.2	949.3	953.9
25°	895.8	898.7	915.5	913.9	930.2	925.4	936.1	924.4	928.2
27.5°	863.5	867.5	884.3	884.0	900.2	896.7	909.0	895.5	896.0
30°	839.9	844.7	861.5	862.8	878.2	872.4	887.0	874.2	873.3
32.5°	817.2	821.2	838.0	840.9	856.2	852.8	864.3	851.5	849.7
35°	780.1	784.9	800.7	805.9	822.3	817.5	827.2	815.3	813.4
37.5°	741.8	744.9	761.6	766.2	785.8	781.7	787.9	776.5	776.7
40°	714.3	718.2	734.9	740.3	761.4	756.6	760.4	750.6	751.6
42.5°	686.8	690.7	706.7	714.4	733.9	729.1	732.2	723.9	724.1
45°	644.7	647.5	663.3	673.5	692.7	687.9	689.8	682.0	682.9
47.5°	600.9	603.0	617.4	631.7	647.6	645.5	645.8	636.1	639.0
50°	571.1	573.9	586.8	601.8	616.2	617.2	615.2	605.5	608.4
52.5°	540.5	542.6	557.7	570.4	585.6	587.3	583.8	574.8	577.0
55°	493.5	495.5	513.2	526.2	539.7	540.6	536.7	529.8	527.9
57.5°	445.3	448.2	464.7	478.9	492.2	490.4	488.4	480.4	478.8
60°	413.1	416.0	431.7	446.7	459.2	458.2	456.3	447.4	447.4
62.5°	380.1	383.8	400.3	413.8	426.2	426.0	423.3	416.8	415.2
65°	329.7	333.5	350.3	362.4	375.8	375.8	372.9	365.0	363.0
67.5°	281.4	285.2	299.1	311.5	325.0	323.8	321.1	316.1	313.4
70°	249.2	253.1	263.0	277.0	290.4	288.5	286.5	281.6	279.6
72.5°	214.7	219.3	229.2	241.7	254.3	253.9	252.0	249.3	245.1
75°	166.8	169.7	180.5	191.5	200.2	201.1	198.2	197.1	192.3
77.5°	121.5	125.1	134.0	143.6	149.9	153.0	151.3	148.9	145.2
80°	93.2	96.1	105.0	112.9	117.7	121.6	120.7	116.7	113.8
82.5°	66.5	69.4	76.7	83.9	87.9	91.8	90.9	88.4	84.0
85°	30.4	32.3	39.2	44.2	46.1	50.9	49.1	47.0	44.2
87.5°	4.7	5.5	10.2	14.9	14.1	18.7	16.5	13.3	10.2
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	1.2	2.0	7.6	8.6	7.8	7.4
95°	2.0	2.0	3.1	9.7	9.7	15.7	21.5	21.0	21.0
97.5°	4.6	5.1	7.2	29.6	22.1	21.5	30.7	33.8	34.1
100°	6.6	7.1	11.2	48.2	32.7	27.7	32.7	39.9	41.4
102.5°	9.1	10.0	17.8	76.1	46.2	33.2	38.5	43.6	45.1
105°	13.8	15.3	37.3	127.6	70.6	44.1	48.6	51.1	51.6
107.5°	20.8	26.4	102.2	179.4	100.1	58.3	61.0	62.7	63.3
110°	28.1	40.1	177.4	210.7	122.2	69.2	67.5	72.1	71.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	47.3	82.5	260.5	236.4	144.3	82.1	73.6	81.1	81.7
115°	132.4	227.4	348.2	272.9	177.9	104.4	83.3	90.6	93.6
117.5°	332.4	395.5	394.4	306.8	210.3	130.8	95.0	98.5	101.9
120°	446.9	456.4	417.8	329.6	231.1	149.6	104.8	103.4	106.4
122.5°	489.5	481.8	435.4	349.7	252.4	169.3	117.5	108.7	111.3
125°	526.2	511.2	458.2	378.3	283.8	198.3	140.6	120.2	119.7
127.5°	546.5	530.8	480.5	403.1	312.6	228.4	166.9	136.4	131.8
130°	556.3	541.8	496.0	418.4	331.9	248.9	186.1	150.7	143.7
132.5°	568.2	552.5	507.0	434.0	350.3	268.1	205.4	167.8	159.6
135°	579.9	565.4	525.1	454.3	376.3	296.3	233.2	196.1	185.6
137.5°	590.3	577.0	541.7	470.4	399.9	324.2	262.6	226.5	213.7
140°	597.2	582.7	548.7	482.7	414.2	341.7	282.3	246.2	236.2
142.5°	599.7	590.8	556.0	493.0	430.1	358.4	301.9	264.7	255.5
145°	607.0	601.0	565.0	505.4	449.0	383.5	331.9	293.3	283.3
147.5°	611.7	602.7	573.3	518.9	467.4	405.9	359.1	322.0	312.7
150°	612.1	605.1	579.9	527.1	479.6	422.1	375.8	340.9	332.4
152.5°	615.3	606.7	583.1	534.1	488.6	435.9	392.6	360.1	350.8
155°	613.1	607.1	588.0	543.1	502.6	453.6	416.2	387.4	379.4
157.5°	613.1	605.7	588.6	550.1	516.1	473.1	438.3	411.7	405.7
160°	609.0	606.0	589.1	555.1	523.1	484.1	453.0	428.8	420.8
162.5°	607.4	602.4	589.9	558.4	529.2	493.0	465.7	442.8	436.8
165°	600.3	595.8	585.0	559.9	538.9	508.9	484.2	463.7	460.7
167.5°	592.2	588.7	581.6	562.4	545.4	520.9	500.1	483.5	479.4
170°	586.5	581.0	578.3	563.7	548.7	528.2	510.3	495.4	490.9
172.5°	576.7	576.0	573.8	560.5	551.5	534.6	519.7	506.1	503.2
175°	565.0	565.0	566.6	558.3	555.3	541.3	530.8	522.5	518.0
177.5°	551.5	551.9	555.2	554.8	555.2	547.2	544.2	536.4	535.6
180°	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7

(END OF REPORT)