

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: P522337

Luminaire Tested: **SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522337  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4109.6 lumens  
Efficiency: N/A  
Efficacy: 105.4 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: General Diffuse

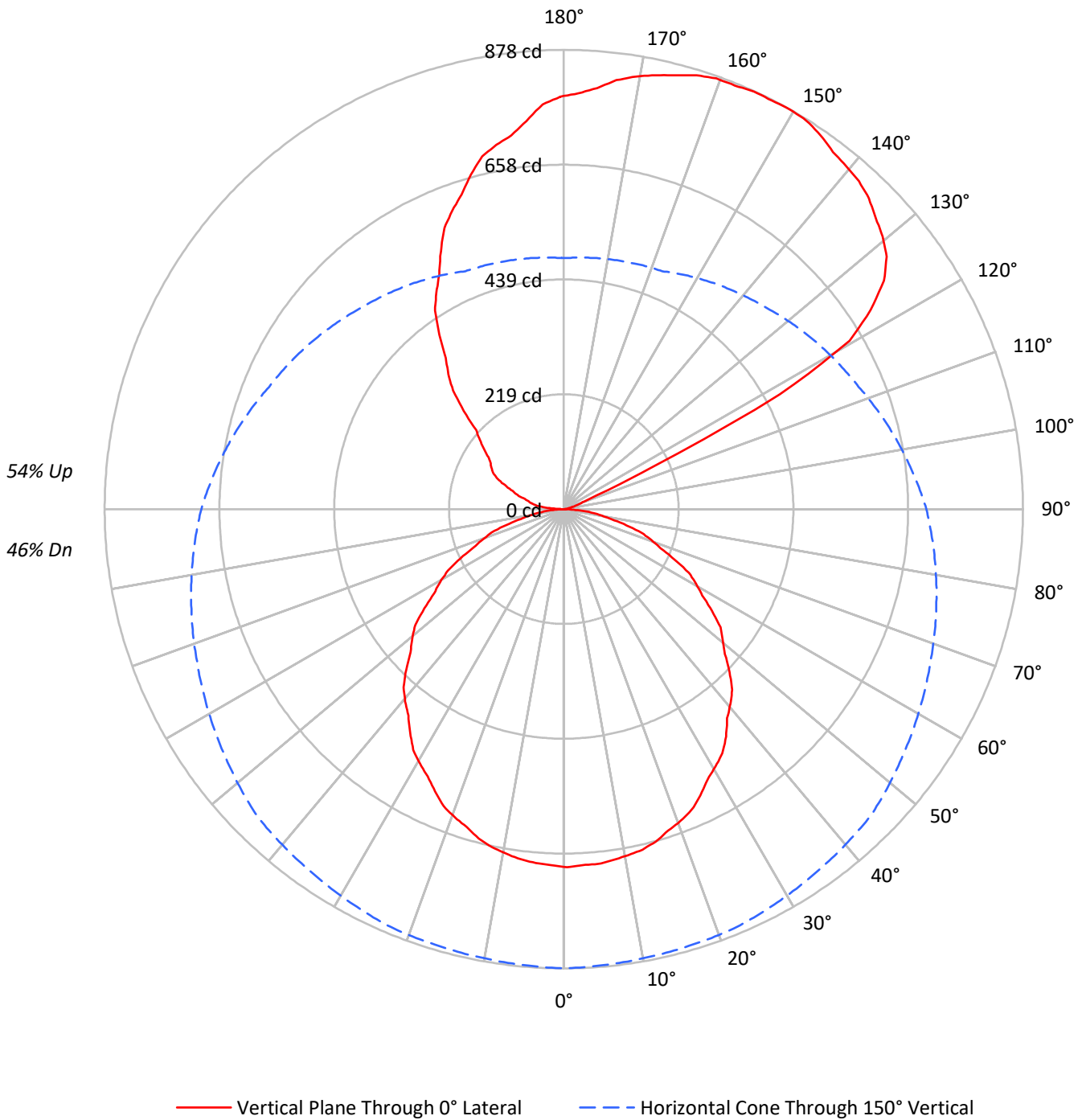
Input Watts (W): 39  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	45	44	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

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

	0°	90°	180°
0°	11053	11053	11053
5°	11047	11159	11000
10°	11032	11144	10952
15°	11019	11084	10872
20°	10940	11024	10739
25°	10803	10908	10561
30°	10651	10797	10414
35°	10529	10663	10222
40°	10332	10517	10045
45°	10145	10369	9812
50°	9887	10181	9568
55°	9678	9951	9208
60°	9397	9746	8861
65°	8879	9326	8359
70°	8389	8899	7789
75°	7735	8166	7130
80°	6722	7169	5997
85°	5057	5613	4520



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.8	1.6
10°-20°	185.1	4.5
20°-30°	278.4	6.8
30°-40°	332.4	8.1
40°-50°	341.9	8.3
50°-60°	307.6	7.5
60°-70°	232.6	5.7
70°-80°	132.3	3.2
80°-90°	35.0	0.9
90°-100°	20.7	0.5
100°-110°	89.7	2.2
110°-120°	255.9	6.2
120°-130°	389.0	9.5
130°-140°	420.8	10.2
140°-150°	402.0	9.8
150°-160°	330.7	8.0
160°-170°	216.1	5.3
170°-180°	74.7	1.8
0°-30°	528.2	12.9
0°-40°	860.6	20.9
0°-60°	1510.2	36.7
0°-90°	1910.1	46.5
90°-120°	366.3	8.9
90°-150°	1578.1	38.4
90°-180°	2200.0	53.5
0°-180°	4109.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	685	685	685	685	685	
5°	682	682	688	682	679	65
15°	659	660	663	655	650	186
25°	606	612	612	604	593	279
35°	534	540	541	529	519	333
45°	444	450	454	440	430	342
55°	344	351	354	340	327	307
65°	232	239	244	230	219	231
75°	124	128	131	121	114	131
85°	27	31	30	27	24	33
90°	0	0	0	0	0	1
95°	3	5	14	34	32	4
105°	21	53	104	71	76	24
115°	189	502	259	123	139	260
125°	752	662	414	203	175	661
135°	832	754	545	338	268	642
145°	867	812	649	480	410	543
155°	877	838	725	602	546	405
165°	856	838	776	696	664	243
175°	807	809	795	766	745	78
180°	788	788	788	788	788	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6
2.5°	681.4	683.7	683.8	683.1	689.3	683.1	684.6	683.0	680.7
5°	681.6	681.6	681.6	680.8	688.5	679.9	681.6	678.7	678.7
7.5°	677.5	677.7	678.5	676.0	684.4	674.8	676.6	673.5	674.2
10°	672.9	673.8	673.8	672.1	679.7	670.1	671.9	668.0	668.0
12.5°	668.2	668.4	669.1	666.6	674.2	663.9	665.6	661.7	660.9
15°	659.2	659.2	660.2	656.4	663.1	653.5	655.3	650.4	650.4
17.5°	646.1	645.9	648.2	643.3	650.2	639.5	643.0	636.9	635.2
20°	636.7	635.8	639.7	634.0	641.6	630.1	632.8	626.0	625.0
22.5°	625.0	624.0	629.5	623.8	630.7	619.2	621.9	612.7	612.5
25°	606.4	605.5	612.3	606.6	612.3	601.8	603.5	593.7	592.8
27.5°	585.4	585.4	593.4	586.7	593.2	582.7	583.4	573.4	573.4
30°	571.3	571.3	580.1	573.4	579.1	568.6	569.3	558.6	558.6
32.5°	556.4	556.4	563.7	558.5	564.3	553.8	553.7	543.0	543.0
35°	534.2	532.3	540.0	535.3	541.0	530.5	529.3	518.6	518.6
37.5°	507.4	506.5	515.0	511.6	516.2	505.9	503.1	492.8	493.8
40°	490.2	489.3	497.1	495.2	499.0	489.5	484.4	475.6	476.6
42.5°	472.3	470.5	478.3	477.2	481.1	471.5	467.2	457.6	457.8
45°	444.3	444.3	450.2	450.3	454.1	443.6	439.5	429.7	429.7
47.5°	414.7	414.8	420.9	421.2	424.8	415.6	411.1	400.6	400.4
50°	393.6	394.5	401.4	402.4	405.3	397.6	391.6	381.8	380.9
52.5°	375.6	374.3	381.1	382.9	385.0	377.3	371.3	361.5	360.5
55°	343.8	344.7	350.6	353.5	353.5	346.8	339.8	330.0	327.1
57.5°	312.1	313.4	318.2	321.9	322.9	315.4	308.2	299.3	295.5
60°	291.0	290.1	297.9	300.8	301.8	295.1	287.1	278.2	274.4
62.5°	268.4	268.9	274.4	278.9	279.9	272.4	265.2	254.0	251.0
65°	232.4	235.3	239.3	242.2	244.1	238.4	229.5	220.7	218.8
67.5°	199.6	201.5	205.5	210.0	211.1	204.6	196.7	189.0	186.9
70°	177.7	179.6	183.6	186.6	188.5	182.7	174.8	167.9	165.0
72.5°	155.9	157.8	160.9	163.9	165.8	160.1	152.9	146.8	144.7
75°	124.0	125.9	127.9	129.9	130.9	127.0	121.1	115.2	114.3
77.5°	92.6	94.5	96.7	99.2	98.2	95.6	89.8	85.9	84.8
80°	72.3	74.2	77.1	78.1	77.1	75.2	70.3	66.4	64.5
82.5°	53.5	55.4	58.4	58.6	56.8	56.5	52.3	49.2	48.0
85°	27.3	29.3	31.3	32.2	30.3	30.3	27.3	24.4	24.4
87.5°	5.5	7.0	9.4	11.7	9.4	10.1	7.8	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	2.2	3.2	11.6	12.8	11.2	11.2
95°	3.3	3.3	4.7	14.7	14.1	23.9	33.5	31.5	31.5
97.5°	6.8	7.5	10.7	43.5	32.8	31.9	45.2	50.3	51.3
100°	10.0	10.7	16.1	71.1	48.8	41.7	49.5	58.9	60.9
102.5°	13.8	15.0	25.7	111.8	68.7	48.9	56.5	64.8	67.3
105°	20.7	22.7	52.9	187.5	103.7	63.8	70.9	74.3	76.3
107.5°	30.8	38.8	142.4	263.4	147.2	84.3	91.8	91.3	93.0
110°	41.5	57.8	246.3	305.0	179.3	100.2	100.4	105.7	103.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	68.8	115.0	367.2	344.9	211.5	119.2	108.4	120.2	120.9
115°	188.7	324.1	501.9	400.9	259.0	153.0	123.1	134.6	139.2
117.5°	467.9	563.9	570.8	450.7	306.3	190.7	140.0	145.1	151.1
120°	634.4	654.0	602.9	481.2	337.9	217.5	153.9	152.0	158.6
122.5°	699.7	692.6	629.1	509.6	369.0	246.0	171.0	160.6	165.0
125°	752.1	733.8	661.8	549.0	414.2	288.6	203.4	174.7	174.7
127.5°	783.5	762.1	691.8	583.9	455.0	331.6	242.4	197.5	191.4
130°	801.7	778.8	710.0	608.1	481.8	359.4	269.7	217.3	207.4
132.5°	815.6	794.8	727.1	627.0	508.0	386.7	297.0	241.7	225.6
135°	832.4	814.8	753.5	655.9	544.7	427.6	337.9	284.0	267.7
137.5°	843.3	829.5	777.2	679.7	578.7	468.1	379.3	325.1	310.4
140°	849.2	838.0	788.9	693.8	599.6	494.2	408.2	353.0	339.3
142.5°	855.1	846.0	797.5	709.4	619.9	520.3	436.6	381.4	366.6
145°	867.2	856.8	811.7	728.3	649.1	556.8	480.5	422.6	409.5
147.5°	875.8	863.2	823.3	748.5	676.7	589.9	520.7	464.9	452.0
150°	877.9	864.9	829.8	759.3	693.2	610.2	545.4	492.2	479.8
152.5°	876.3	866.4	834.6	768.5	707.2	629.8	567.8	518.5	507.1
155°	877.3	868.1	838.5	781.0	724.7	657.3	601.6	557.8	546.0
157.5°	873.3	867.2	841.1	790.5	740.9	681.9	632.5	595.7	583.8
160°	873.3	864.1	841.1	796.0	752.1	697.8	651.8	618.7	608.9
162.5°	867.4	859.3	840.6	799.9	762.8	712.7	670.0	639.2	632.0
165°	856.5	850.0	837.8	805.0	776.2	733.0	695.9	668.4	663.8
167.5°	848.1	839.1	832.4	804.8	785.3	747.6	717.9	695.1	692.4
170°	838.5	832.6	827.1	803.3	789.6	758.2	733.4	710.6	708.0
172.5°	826.1	822.9	820.1	802.4	792.3	767.2	746.8	726.1	721.4
175°	807.0	809.6	809.0	800.2	795.0	778.6	766.2	751.3	745.4
177.5°	795.2	794.2	796.8	795.2	794.7	784.7	781.3	771.2	774.4
180°	788.3	788.3	788.3	788.3	788.3	788.3	788.3	788.3	788.3

(END OF REPORT)