

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: P522458

Luminaire Tested: **SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522458  
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-100U-050D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

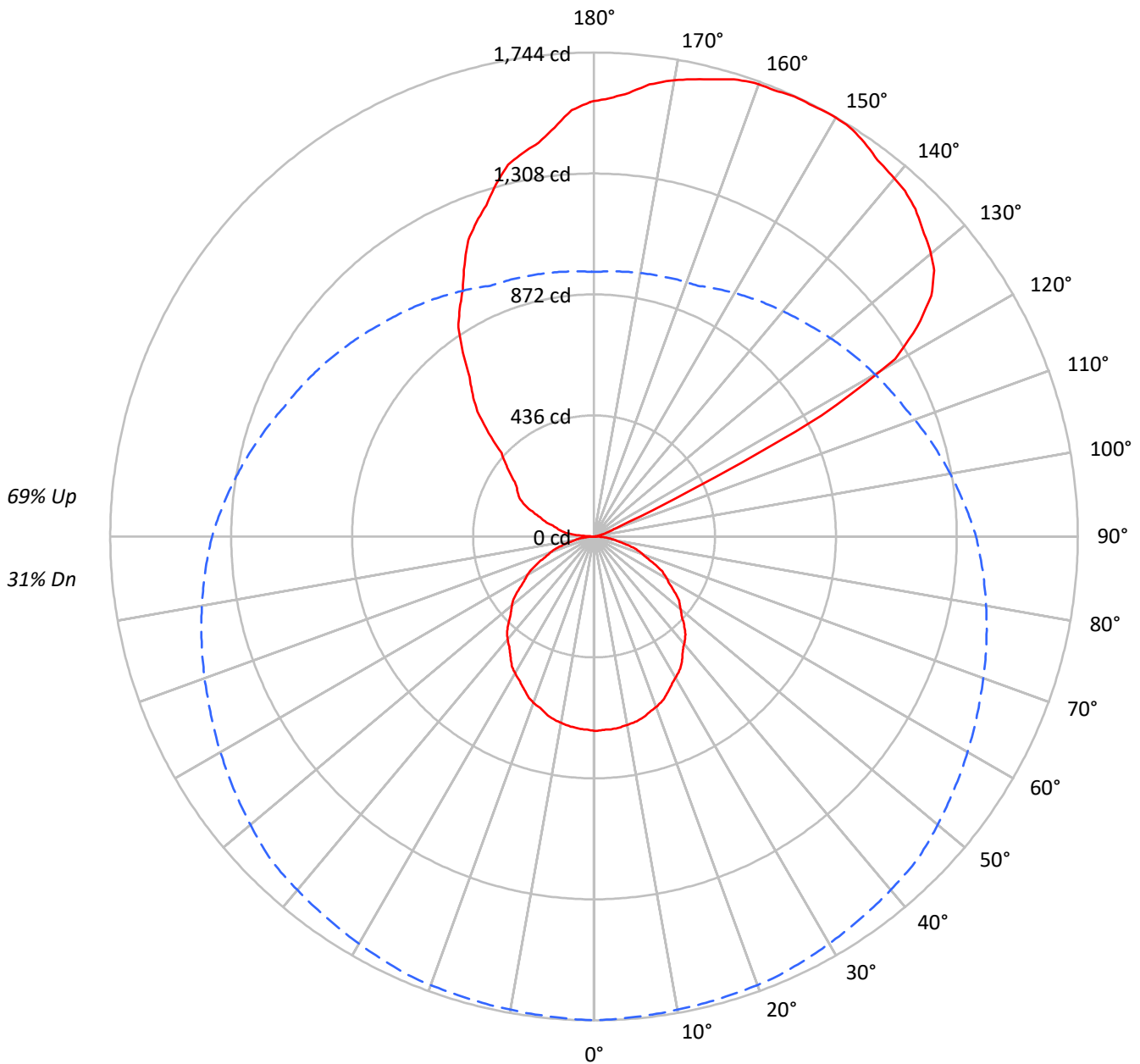
Lumens per Lamp: N/A  
Luminaire Lumens: 6324.4 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 56.7  
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



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### Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral      - - - Horizontal Cone Through 150° Vertical



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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	93	89	85	82	84	80	77	74	64	61	59	48	47	45	34	33	32	26
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	28	27	22
3	77	68	61	55	69	62	55	51	49	45	41	37	34	32	26	25	23	18
4	71	60	53	47	63	54	48	43	43	39	35	33	30	27	23	21	20	15
5	65	53	46	40	58	48	41	36	39	34	30	29	26	23	21	19	17	13
6	60	48	40	34	53	43	36	31	35	30	26	27	23	20	19	17	15	12
7	55	43	35	30	49	39	32	27	31	26	23	24	21	18	17	15	13	10
8	51	39	31	26	46	35	29	24	28	23	20	22	18	16	16	14	12	9
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	15	12	11	8
10	44	32	25	21	40	29	23	19	24	19	16	19	15	13	14	11	10	8

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

	0°	90°	180°
0°	11318	11318	11318
5°	11313	11426	11264
10°	11296	11411	11214
15°	11283	11350	11132
20°	11203	11289	10997
25°	11063	11170	10814
30°	10907	11056	10664
35°	10782	10920	10466
40°	10581	10770	10286
45°	10389	10618	10047
50°	10123	10424	9796
55°	9909	10190	9430
60°	9623	9978	9074
65°	9093	9551	8558
70°	8592	9111	7978
75°	7923	8359	7299
80°	6881	7345	6137
85°	5187	5743	4631



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.3	1.0
10°-20°	189.5	3.0
20°-30°	285.1	4.5
30°-40°	340.4	5.4
40°-50°	350.1	5.5
50°-60°	315.0	5.0
60°-70°	238.2	3.8
70°-80°	135.5	2.1
80°-90°	35.8	0.6
90°-100°	41.1	0.7
100°-110°	178.2	2.8
110°-120°	508.1	8.0
120°-130°	772.6	12.2
130°-140°	835.7	13.2
140°-150°	798.5	12.6
150°-160°	656.7	10.4
160°-170°	429.1	6.8
170°-180°	148.4	2.3
0°-30°	540.9	8.6
0°-40°	881.3	13.9
0°-60°	1546.4	24.5
0°-90°	1955.9	30.9
90°-120°	727.5	11.5
90°-150°	3134.2	49.6
90°-180°	4368.0	69.1
0°-180°	6324.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	701	701	701	701	701	
5°	698	698	705	698	695	66
15°	675	676	679	671	666	190
25°	621	627	627	618	607	286
35°	547	553	554	542	531	341
45°	455	461	465	450	440	350
55°	352	359	362	348	335	315
65°	238	245	250	235	224	237
75°	127	131	134	124	117	134
85°	28	32	31	28	25	33
90°	0	0	0	0	0	1
95°	7	9	28	66	62	8
105°	41	105	206	141	152	48
115°	375	997	514	244	276	516
125°	1494	1314	823	404	347	1313
135°	1653	1496	1082	671	532	1274
145°	1722	1612	1289	954	813	1079
155°	1742	1665	1439	1195	1084	805
165°	1701	1664	1542	1382	1318	483
175°	1603	1607	1579	1522	1480	155
180°	1566	1566	1566	1566	1566	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
2.5°	697.8	700.1	700.2	699.5	705.8	699.5	701.0	699.3	697.0
5°	698.0	698.0	698.0	697.2	705.0	696.2	698.0	695.0	695.0
7.5°	693.8	694.0	694.8	692.2	700.8	691.0	692.8	689.6	690.4
10°	689.0	690.0	690.0	688.2	696.0	686.2	688.0	684.0	684.0
12.5°	684.2	684.4	685.2	682.6	690.4	679.8	681.6	677.6	676.8
15°	675.0	675.0	676.0	672.2	679.0	669.2	671.0	666.0	666.0
17.5°	661.6	661.4	663.8	658.8	665.8	654.8	658.4	652.2	650.4
20°	652.0	651.0	655.0	649.2	657.0	645.3	648.0	641.0	640.0
22.5°	640.0	639.0	644.6	638.8	645.8	634.1	636.8	627.4	627.2
25°	621.0	620.0	627.0	621.1	627.0	616.2	618.0	608.0	607.0
27.5°	599.4	599.4	607.6	600.8	607.4	596.6	597.4	587.2	587.2
30°	585.0	585.0	594.0	587.1	593.0	582.2	583.0	572.0	572.0
32.5°	569.8	569.8	577.2	571.9	577.8	567.0	567.0	556.0	556.0
35°	547.0	545.0	553.0	548.1	554.0	543.2	542.0	531.0	531.0
37.5°	519.6	518.6	527.4	523.9	528.6	518.0	515.2	504.6	505.6
40°	502.0	501.0	509.0	507.1	511.0	501.2	496.0	487.0	488.0
42.5°	483.6	481.8	489.8	488.7	492.6	482.8	478.4	468.6	468.8
45°	455.0	455.0	461.0	461.1	465.0	454.2	450.0	440.0	440.0
47.5°	424.6	424.8	431.0	431.3	435.0	425.6	421.0	410.2	410.0
50°	403.0	404.0	411.0	412.1	415.0	407.2	401.0	391.0	390.0
52.5°	384.6	383.2	390.2	392.0	394.2	386.4	380.2	370.2	369.2
55°	352.0	353.0	359.0	362.0	362.0	355.2	348.0	337.9	335.0
57.5°	319.6	321.0	325.8	329.6	330.6	323.0	315.6	306.5	302.6
60°	298.0	297.0	305.0	308.0	309.0	302.2	294.0	284.9	281.0
62.5°	274.8	275.4	281.0	285.6	286.6	279.0	271.6	260.1	257.0
65°	238.0	240.9	245.0	248.0	250.0	244.1	235.0	226.0	224.0
67.5°	204.4	206.4	210.4	215.0	216.2	209.6	201.4	193.6	191.4
70°	182.0	184.0	188.0	191.0	193.0	187.1	179.0	171.9	169.0
72.5°	159.6	161.6	164.8	167.8	169.8	163.9	156.6	150.4	148.2
75°	127.0	129.0	131.0	133.0	134.0	130.1	124.0	118.0	117.0
77.5°	94.8	96.8	99.0	101.6	100.6	97.9	92.0	88.0	86.8
80°	74.0	76.0	79.0	80.0	79.0	77.0	72.0	68.0	66.0
82.5°	54.8	56.8	59.8	60.0	58.2	57.8	53.6	50.4	49.2
85°	28.0	30.0	32.0	33.0	31.0	31.0	28.0	25.0	25.0
87.5°	5.6	7.2	9.6	11.9	9.6	10.4	8.0	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.1	2.1	2.1	4.3	6.4	23.0	25.5	22.3	22.3
95°	6.6	6.6	9.3	29.2	27.9	47.4	66.5	62.5	62.5
97.5°	13.6	14.9	21.3	86.4	65.1	63.3	89.8	100.0	101.8
100°	19.9	21.2	31.9	141.2	97.0	82.7	98.3	117.0	120.9
102.5°	27.4	29.7	51.0	222.1	136.4	97.1	112.2	128.8	133.7
105°	41.2	45.1	105.0	372.3	206.0	126.7	140.9	147.6	151.5
107.5°	61.1	77.0	282.8	523.2	292.4	167.4	182.3	181.4	184.7
110°	82.4	114.9	489.1	605.7	356.2	198.9	199.4	209.9	206.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	136.6	228.4	729.4	685.1	420.0	236.7	215.3	238.7	240.0
115°	374.8	643.8	996.8	796.3	514.3	303.8	244.5	267.3	276.4
117.5°	929.2	1120.0	1133.6	895.1	608.4	378.7	278.0	288.1	300.1
120°	1259.9	1298.9	1197.4	955.7	671.1	432.0	305.7	302.0	315.0
122.5°	1389.6	1375.6	1249.5	1012.2	732.8	488.5	339.7	318.9	327.7
125°	1493.8	1457.4	1314.4	1090.3	822.7	573.2	404.0	346.9	346.9
127.5°	1556.0	1513.6	1373.9	1159.7	903.7	658.6	481.4	392.3	380.1
130°	1592.1	1546.7	1410.1	1207.7	956.9	713.9	535.6	431.5	412.0
132.5°	1619.8	1578.5	1444.1	1245.2	1009.0	768.1	589.8	480.1	448.1
135°	1653.3	1618.2	1496.5	1302.7	1081.8	849.2	671.1	564.1	531.6
137.5°	1674.8	1647.5	1543.5	1350.0	1149.3	929.7	753.3	645.8	616.4
140°	1686.5	1664.4	1566.9	1377.9	1190.8	981.6	810.7	701.1	673.8
142.5°	1698.2	1680.3	1583.9	1409.0	1231.2	1033.4	867.0	757.4	728.0
145°	1722.4	1701.6	1612.1	1446.4	1289.1	1105.9	954.2	839.3	813.3
147.5°	1739.4	1714.4	1635.2	1486.6	1343.9	1171.6	1034.2	923.3	897.6
150°	1743.7	1717.7	1648.0	1508.1	1376.8	1211.8	1083.1	977.6	952.9
152.5°	1740.5	1720.7	1657.5	1526.4	1404.5	1250.9	1127.8	1029.7	1007.1
155°	1742.3	1724.1	1665.2	1551.1	1439.3	1305.5	1194.8	1107.9	1084.5
157.5°	1734.3	1722.4	1670.6	1570.0	1471.5	1354.3	1256.2	1183.1	1159.4
160°	1734.3	1716.2	1670.6	1580.9	1493.8	1385.9	1294.4	1228.9	1209.4
162.5°	1722.7	1706.5	1669.5	1588.6	1515.1	1415.5	1330.6	1269.4	1255.1
165°	1701.1	1688.1	1663.9	1598.8	1541.6	1455.9	1382.2	1327.5	1318.4
167.5°	1684.4	1666.4	1653.3	1598.4	1559.7	1484.9	1425.8	1380.5	1375.3
170°	1665.2	1653.5	1642.6	1595.5	1568.2	1505.8	1456.6	1411.3	1406.1
172.5°	1640.8	1634.3	1628.8	1593.6	1573.5	1523.6	1483.2	1442.0	1432.7
175°	1602.8	1608.0	1606.8	1589.3	1578.9	1546.4	1521.7	1492.2	1480.5
177.5°	1579.4	1577.3	1582.6	1579.4	1578.3	1558.6	1551.7	1531.7	1537.9
180°	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6

(END OF REPORT)