

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: P522509

Luminaire Tested: **SQW-F-025U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522509  
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-125D-93050-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 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**

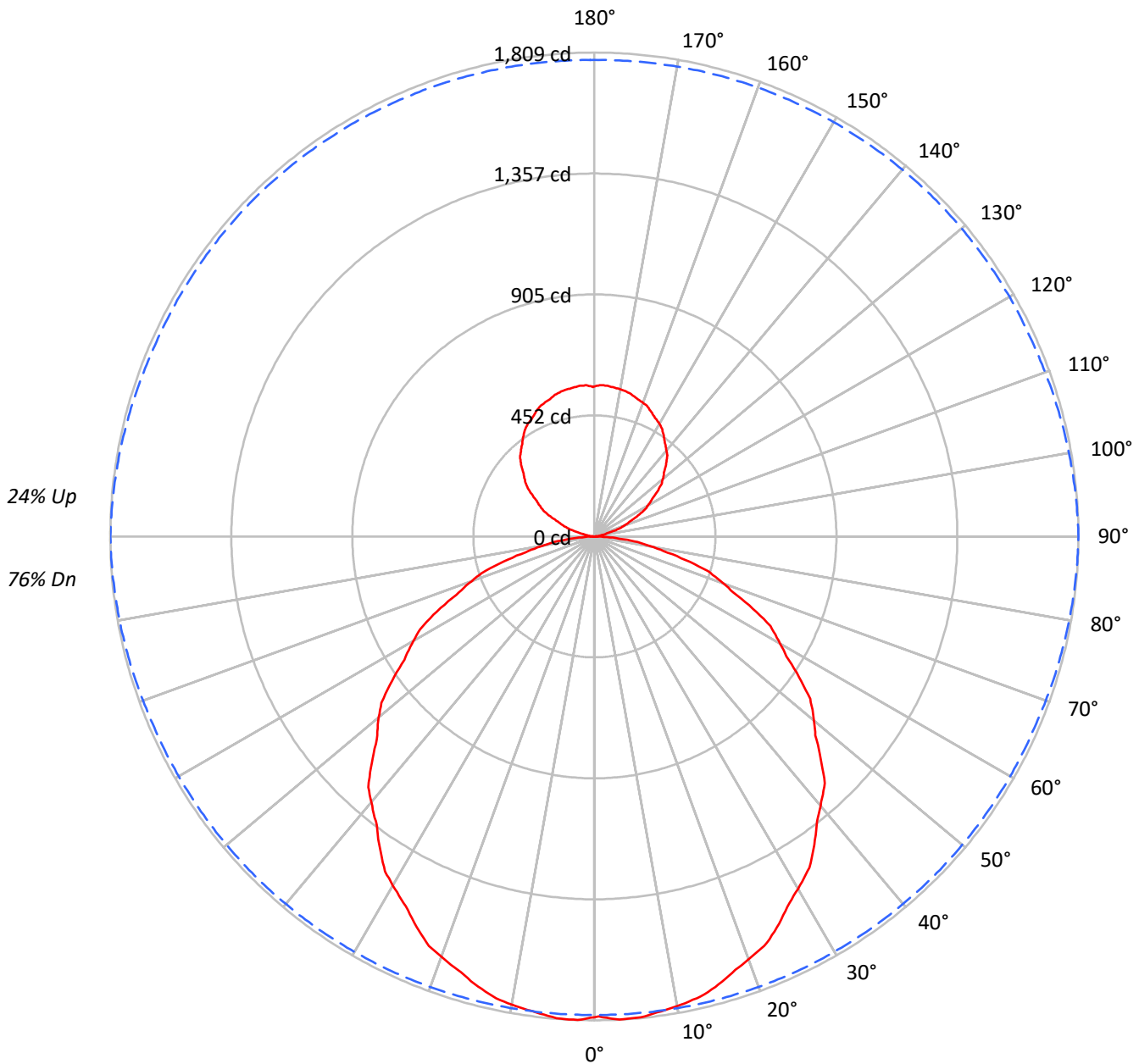
Lumens per Lamp: N/A  
Luminaire Lumens: 6568.3 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 72.7  
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 90° Lateral      - - - Horizontal Cone Through 2.5° 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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	103	99	95	91	98	94	91	87	86	83	80	78	76	74	71	69	68	64
2	94	86	80	74	89	82	76	71	75	70	66	68	65	61	62	59	57	53
3	86	76	68	62	81	72	65	59	66	60	55	60	56	52	55	51	48	45
4	78	67	58	52	74	64	56	50	59	52	47	54	48	44	49	45	41	38
5	72	60	51	45	68	57	49	43	52	46	41	48	43	38	44	39	36	33
6	66	54	45	39	63	51	43	38	47	41	36	43	38	33	40	35	31	29
7	61	48	40	34	58	47	39	33	43	36	31	39	34	30	36	31	28	26
8	57	44	36	30	54	42	35	30	39	33	28	36	31	26	33	29	25	23
9	53	40	32	27	51	39	32	26	36	30	25	33	28	24	31	26	22	20
10	50	37	30	24	47	36	29	24	33	27	23	31	25	22	29	24	20	19

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

	0°	90°	180°
0°	28982	28982	28982
5°	29060	29287	28801
10°	29019	29199	28609
15°	28951	29068	28433
20°	28711	28849	28075
25°	28379	28575	27578
30°	28021	28226	27108
35°	27693	27910	26530
40°	27210	27526	26030
45°	26715	27104	25345
50°	26349	26676	24767
55°	25700	26123	23927
60°	24961	25543	22992
65°	24031	24909	21815
70°	22801	23604	20535
75°	21210	21959	18528
80°	18038	19061	15435
85°	13709	14820	10559



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.8	2.6
10°-20°	485.0	7.4
20°-30°	729.4	11.1
30°-40°	871.3	13.3
40°-50°	896.1	13.6
50°-60°	806.7	12.3
60°-70°	614.4	9.4
70°-80°	350.2	5.3
80°-90°	91.2	1.4
90°-100°	14.1	0.2
100°-110°	62.6	1.0
110°-120°	180.0	2.7
120°-130°	274.2	4.2
130°-140°	297.6	4.5
140°-150°	284.6	4.3
150°-160°	234.5	3.6
160°-170°	153.4	2.3
170°-180°	53.1	0.8
0°-30°	1384.1	21.1
0°-40°	2255.4	34.3
0°-60°	3958.2	60.3
0°-90°	5014.1	76.3
90°-120°	256.8	3.9
90°-150°	1113.2	16.9
90°-180°	1554.0	23.7
0°-180°	6568.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1795	1795	1795	1795	1795	
5°	1793	1792	1807	1781	1777	170
15°	1732	1732	1739	1710	1701	488
25°	1593	1607	1604	1574	1548	734
35°	1405	1421	1416	1382	1346	877
45°	1170	1185	1187	1144	1110	904
55°	913	924	928	881	850	816
65°	629	641	652	602	571	622
75°	340	347	352	313	297	358
85°	74	86	80	68	57	88
90°	0	0	0	0	0	2
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°	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0
2.5°	1789.4	1793.3	1795.0	1793.8	1809.4	1791.4	1791.8	1786.9	1781.4
5°	1793.0	1791.0	1792.0	1788.4	1807.0	1783.5	1781.0	1776.0	1777.0
7.5°	1781.2	1779.8	1780.6	1775.4	1793.0	1769.3	1767.4	1762.2	1761.8
10°	1770.0	1767.1	1771.0	1763.4	1781.0	1756.6	1753.0	1747.0	1745.0
12.5°	1757.2	1753.5	1758.2	1749.0	1765.8	1739.0	1738.6	1730.2	1729.0
15°	1732.0	1732.0	1732.0	1724.3	1739.0	1711.6	1710.0	1701.0	1701.0
17.5°	1696.6	1697.4	1702.6	1692.5	1704.6	1678.2	1674.8	1664.2	1662.8
20°	1671.0	1671.0	1681.0	1665.3	1679.0	1652.6	1650.0	1633.0	1634.0
22.5°	1640.6	1640.6	1653.0	1638.9	1651.0	1624.6	1621.2	1601.0	1602.0
25°	1593.0	1591.0	1607.0	1593.2	1604.0	1577.6	1574.0	1550.0	1548.0
27.5°	1539.8	1541.6	1557.0	1542.6	1552.4	1523.7	1524.6	1495.9	1492.4
30°	1503.0	1504.0	1521.0	1508.1	1514.0	1487.6	1487.0	1456.0	1454.0
32.5°	1464.6	1464.8	1482.6	1467.4	1476.4	1449.2	1445.4	1415.9	1413.2
35°	1405.0	1404.0	1421.0	1410.1	1416.0	1387.6	1382.0	1354.8	1346.0
37.5°	1337.4	1338.2	1354.2	1347.9	1351.6	1324.4	1313.4	1286.3	1283.0
40°	1291.0	1291.0	1307.0	1303.1	1306.0	1279.6	1267.0	1239.9	1235.0
42.5°	1243.0	1244.6	1259.0	1256.0	1262.8	1234.1	1218.2	1192.7	1186.2
45°	1170.0	1172.9	1185.0	1182.1	1187.0	1162.6	1144.0	1116.8	1110.0
47.5°	1101.0	1098.1	1111.6	1109.8	1111.6	1087.7	1069.2	1041.1	1035.6
50°	1049.0	1046.1	1058.0	1061.0	1062.0	1036.6	1018.0	989.9	986.0
52.5°	995.4	992.5	1005.2	1009.8	1010.0	986.1	964.4	937.9	934.0
55°	913.0	908.1	924.0	930.0	928.0	907.5	881.0	857.8	850.0
57.5°	829.8	829.2	842.8	848.2	847.0	826.7	800.4	776.8	768.8
60°	773.0	770.1	786.0	793.0	791.0	771.4	742.0	720.8	712.0
62.5°	716.2	716.4	730.0	736.2	738.2	714.7	687.6	663.3	656.8
65°	629.0	625.1	641.0	647.1	652.0	627.6	602.0	577.8	571.0
67.5°	541.4	538.5	549.4	556.5	560.8	538.9	514.0	493.9	491.0
70°	483.0	480.1	491.0	498.0	500.0	480.4	454.0	437.9	435.0
72.5°	425.4	422.5	431.0	438.1	442.4	421.3	396.4	381.0	374.2
75°	340.0	338.0	347.0	347.1	352.0	331.5	313.0	298.0	297.0
77.5°	254.8	256.2	262.6	263.0	264.2	248.9	234.4	217.4	216.4
80°	194.0	200.8	205.0	207.0	205.0	195.2	180.0	167.0	166.0
82.5°	143.6	148.9	157.0	155.7	152.2	144.8	132.8	120.6	119.6
85°	74.0	78.9	86.0	85.9	80.0	76.1	68.0	58.0	57.0
87.5°	17.6	20.7	28.0	30.3	24.8	25.6	17.6	10.4	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)