

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: P522535

Luminaire Tested: **SQW-F-050U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522535  
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-050U-125D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

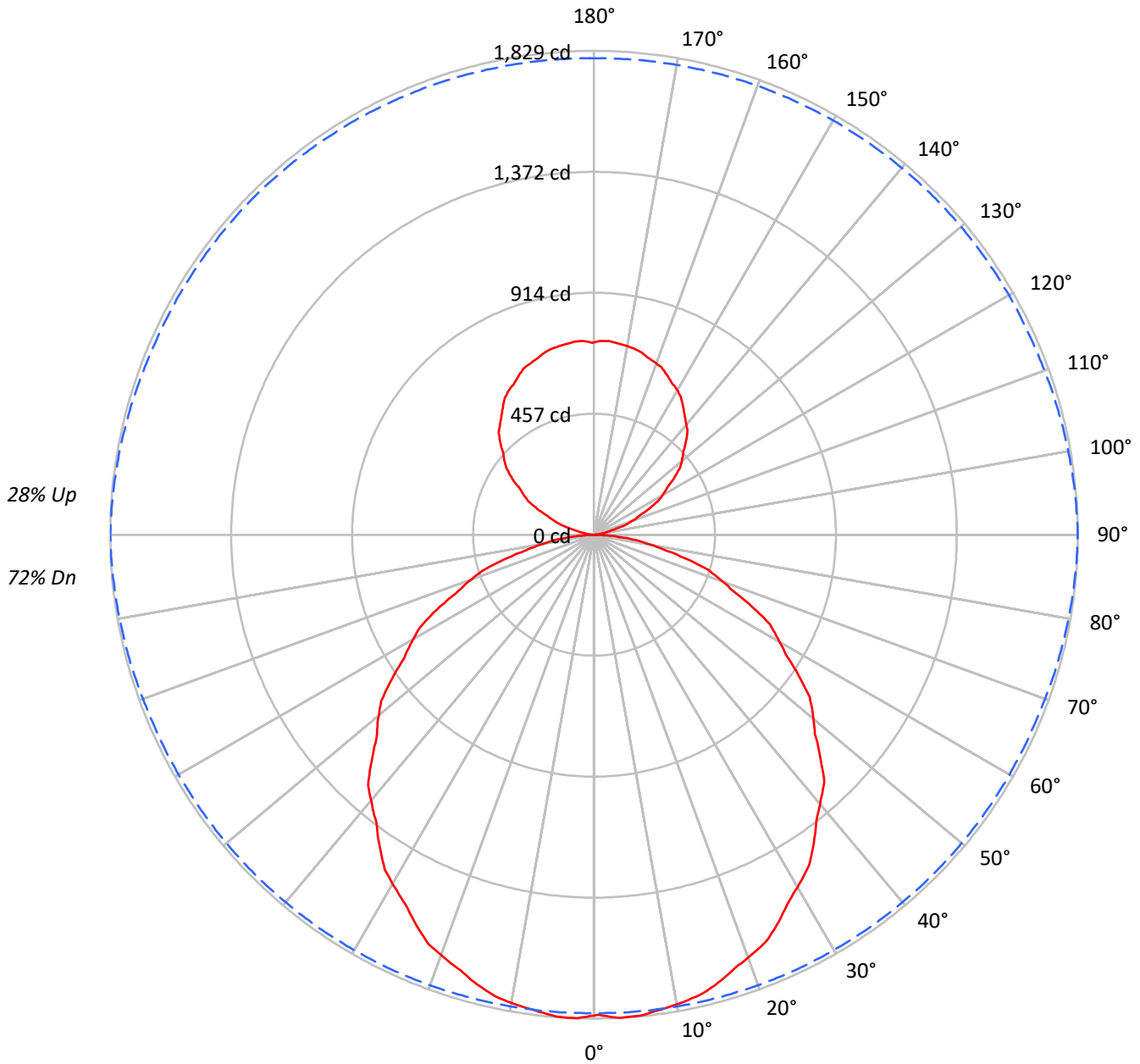
Lumens per Lamp: N/A  
Luminaire Lumens: 7081.7 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 76.1  
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	102	98	94	90	97	93	89	86	83	81	78	75	73	71	67	65	64	60
2	93	85	79	73	88	81	75	70	73	68	64	65	62	59	59	56	53	50
3	85	75	67	61	80	71	64	59	64	59	54	58	53	50	52	48	45	42
4	78	66	58	51	73	63	55	50	57	51	46	51	46	42	46	42	39	36
5	71	59	50	44	67	56	48	43	51	45	40	46	41	37	41	37	34	31
6	66	53	44	38	62	51	43	37	46	39	35	42	36	32	38	33	30	27
7	61	48	40	34	57	46	38	33	42	35	30	38	32	28	34	30	26	24
8	56	44	35	30	53	42	34	29	38	32	27	35	29	25	31	27	24	21
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	22	19	17

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

	0°	90°	180°
0°	29290	29290	29290
5°	29370	29598	29107
10°	29327	29511	28914
15°	29259	29377	28735
20°	29017	29156	28374
25°	28682	28880	27872
30°	28320	28527	27397
35°	27989	28208	26812
40°	27499	27819	26306
45°	27001	27391	25615
50°	26631	26960	25031
55°	25973	26401	24180
60°	25226	25814	23237
65°	24286	25173	22048
70°	23042	23854	20752
75°	21435	22190	18727
80°	18233	19265	15602
85°	13857	14987	10671



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.6	2.4
10°-20°	490.2	6.9
20°-30°	737.1	10.4
30°-40°	880.5	12.4
40°-50°	905.6	12.8
50°-60°	815.3	11.5
60°-70°	621.0	8.8
70°-80°	354.0	5.0
80°-90°	92.2	1.3
90°-100°	18.3	0.3
100°-110°	81.2	1.1
110°-120°	233.3	3.3
120°-130°	355.3	5.0
130°-140°	385.7	5.4
140°-150°	368.9	5.2
150°-160°	303.9	4.3
160°-170°	198.9	2.8
170°-180°	68.8	1.0
0°-30°	1398.9	19.8
0°-40°	2279.4	32.2
0°-60°	4000.3	56.5
0°-90°	5067.4	71.6
90°-120°	332.8	4.7
90°-150°	1442.7	20.4
90°-180°	2014.0	28.4
0°-180°	7081.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1814	1814	1814	1814	1814	
5°	1812	1811	1826	1800	1796	172
15°	1750	1750	1758	1728	1719	493
25°	1610	1624	1621	1591	1564	741
35°	1420	1436	1431	1397	1360	887
45°	1182	1198	1200	1156	1122	914
55°	923	934	938	890	859	825
65°	636	648	659	608	577	629
75°	344	351	356	316	300	362
85°	75	87	81	69	58	89
90°	0	0	0	0	0	3
95°	3	4	13	28	28	4
105°	18	49	93	64	68	21
115°	175	460	235	110	124	242
125°	695	605	375	186	158	610
135°	766	694	497	308	245	591
145°	802	746	593	438	374	502
155°	810	777	664	550	501	375
165°	793	773	712	640	608	225
175°	746	748	734	701	684	72
180°	725	725	725	725	725	



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CATALOG NUMBER: SQW-F-050U-125D-93050-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1
2.5°	1808.4	1812.4	1814.1	1812.8	1828.7	1810.5	1810.9	1805.9	1800.4
5°	1812.1	1810.1	1811.1	1807.5	1826.2	1802.5	1800.0	1794.9	1795.9
7.5°	1800.2	1798.8	1799.5	1794.3	1812.1	1788.2	1786.2	1780.9	1780.5
10°	1788.8	1785.9	1789.8	1782.2	1800.0	1775.2	1771.7	1765.5	1763.6
12.5°	1775.9	1772.1	1776.9	1767.6	1784.6	1757.5	1757.1	1748.6	1747.4
15°	1750.4	1750.4	1750.4	1742.7	1757.5	1729.8	1728.2	1719.1	1719.1
17.5°	1714.7	1715.4	1720.7	1710.5	1722.7	1696.1	1692.6	1681.9	1680.5
20°	1688.8	1688.8	1698.9	1683.0	1696.9	1670.2	1667.6	1650.4	1651.4
22.5°	1658.1	1658.1	1670.6	1656.3	1668.6	1641.9	1638.5	1618.1	1619.0
25°	1610.0	1608.0	1624.1	1610.2	1621.1	1594.4	1590.8	1566.4	1564.5
27.5°	1556.2	1558.0	1573.6	1559.0	1568.9	1539.9	1540.8	1511.8	1508.3
30°	1519.0	1520.0	1537.2	1524.2	1530.1	1503.4	1502.8	1471.4	1469.5
32.5°	1480.2	1480.4	1498.4	1483.0	1492.1	1464.6	1460.8	1431.0	1428.2
35°	1420.0	1419.0	1436.1	1425.1	1431.1	1402.4	1396.7	1369.2	1360.3
37.5°	1351.6	1352.4	1368.6	1362.2	1366.0	1338.5	1327.4	1300.0	1296.7
40°	1304.7	1304.7	1320.9	1316.9	1319.9	1293.2	1280.5	1253.1	1248.1
42.5°	1256.2	1257.8	1272.4	1269.3	1276.2	1247.2	1231.2	1205.3	1198.8
45°	1182.5	1185.4	1197.6	1194.7	1199.6	1174.9	1156.2	1128.7	1121.8
47.5°	1112.7	1109.8	1123.4	1121.7	1123.4	1099.3	1080.6	1052.2	1046.6
50°	1060.2	1057.2	1069.3	1072.3	1073.3	1047.6	1028.8	1000.4	996.5
52.5°	1006.0	1003.0	1015.9	1020.6	1020.7	996.6	974.7	947.9	943.9
55°	922.7	917.8	933.8	939.9	937.9	917.1	890.4	867.0	859.0
57.5°	838.6	838.0	851.8	857.2	856.0	835.5	808.9	785.1	777.0
60°	781.2	778.3	794.4	801.4	799.4	779.7	749.9	728.5	719.6
62.5°	723.8	724.0	737.8	744.1	746.1	722.3	694.9	670.3	663.8
65°	635.7	631.7	647.8	654.0	658.9	634.2	608.4	584.0	577.1
67.5°	547.2	544.2	555.2	562.4	566.8	544.6	519.5	499.2	496.2
70°	488.1	485.2	496.2	503.3	505.3	485.6	458.8	442.6	439.6
72.5°	429.9	427.0	435.6	442.8	447.1	425.8	400.6	385.1	378.2
75°	343.6	341.6	350.7	350.8	355.7	335.0	316.3	301.1	300.2
77.5°	257.5	258.9	265.4	265.8	267.0	251.6	236.9	219.7	218.7
80°	196.1	203.0	207.2	209.2	207.2	197.3	181.9	168.8	167.8
82.5°	145.1	150.5	158.7	157.4	153.8	146.3	134.2	121.9	120.9
85°	74.8	79.7	86.9	86.8	80.9	76.9	68.7	58.6	57.6
87.5°	17.8	20.9	28.3	30.6	25.1	25.9	17.8	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.5	0.5	1.1	1.6	2.7	10.1	11.3	10.3	9.7
95°	2.7	2.7	4.1	12.8	12.8	20.8	28.4	27.7	27.7
97.5°	6.1	6.7	9.5	39.1	29.2	28.4	40.5	44.6	45.0
100°	8.8	9.4	14.9	63.7	43.2	36.6	43.2	52.7	54.7
102.5°	12.0	13.2	23.5	100.5	61.1	43.9	50.8	57.6	59.6
105°	18.2	20.2	49.3	168.5	93.2	58.2	64.2	67.6	68.2
107.5°	27.4	34.8	134.9	237.0	132.2	77.0	80.5	82.8	83.6
110°	37.1	53.0	234.4	278.3	161.4	91.4	89.1	95.2	93.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	62.5	109.0	344.0	312.2	190.6	108.4	97.3	107.1	107.9
115°	174.9	300.4	459.9	360.5	235.0	138.0	110.1	119.6	123.6
117.5°	439.0	522.3	521.0	405.2	277.7	172.7	125.5	130.0	134.5
120°	590.3	602.8	551.8	435.4	305.3	197.6	138.5	136.5	140.5
122.5°	646.5	636.3	575.0	461.9	333.4	223.6	155.2	143.5	147.0
125°	695.0	675.1	605.1	499.6	374.8	261.9	185.7	158.7	158.0
127.5°	721.8	701.1	634.6	532.4	412.9	301.7	220.4	180.2	174.1
130°	734.8	715.7	655.1	552.6	438.3	328.7	245.8	199.0	189.8
132.5°	750.5	729.7	669.7	573.2	462.6	354.1	271.2	221.7	210.9
135°	765.9	746.7	693.6	600.1	497.1	391.4	308.0	259.0	245.2
137.5°	779.6	762.1	715.5	621.2	528.1	428.2	346.9	299.2	282.3
140°	788.8	769.7	724.7	637.5	547.0	451.3	372.8	325.2	312.0
142.5°	792.1	780.3	734.4	651.2	568.1	473.4	398.7	349.6	337.4
145°	801.7	793.7	746.3	667.6	593.0	506.5	438.3	387.4	374.2
147.5°	807.9	796.0	757.2	685.3	617.3	536.1	474.2	425.3	413.1
150°	808.4	799.2	765.9	696.2	633.5	557.6	496.4	450.2	439.0
152.5°	812.7	801.4	770.2	705.5	645.4	575.8	518.5	475.6	463.3
155°	809.8	801.8	776.7	717.4	663.9	599.2	549.8	511.7	501.1
157.5°	809.8	800.0	777.5	726.6	681.7	624.9	578.9	543.8	535.8
160°	804.4	800.4	778.0	733.2	690.9	639.4	598.4	566.4	555.8
162.5°	802.2	795.6	779.1	737.6	699.0	651.2	615.1	584.8	576.9
165°	792.9	786.9	772.6	739.6	711.8	672.2	639.6	612.5	608.5
167.5°	782.2	777.6	768.2	742.8	720.3	688.0	660.5	638.6	633.2
170°	774.6	767.4	763.8	744.5	724.7	697.6	674.0	654.3	648.4
172.5°	761.7	760.8	757.9	740.3	728.5	706.1	686.4	668.4	664.6
175°	746.3	746.3	748.3	737.4	733.5	715.0	701.0	690.1	684.1
177.5°	728.5	729.0	733.3	732.8	733.3	722.8	718.7	708.4	707.4
180°	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7

(END OF REPORT)