

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: P522561

Luminaire Tested: **SQW-F-075U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522561
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-075U-125D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

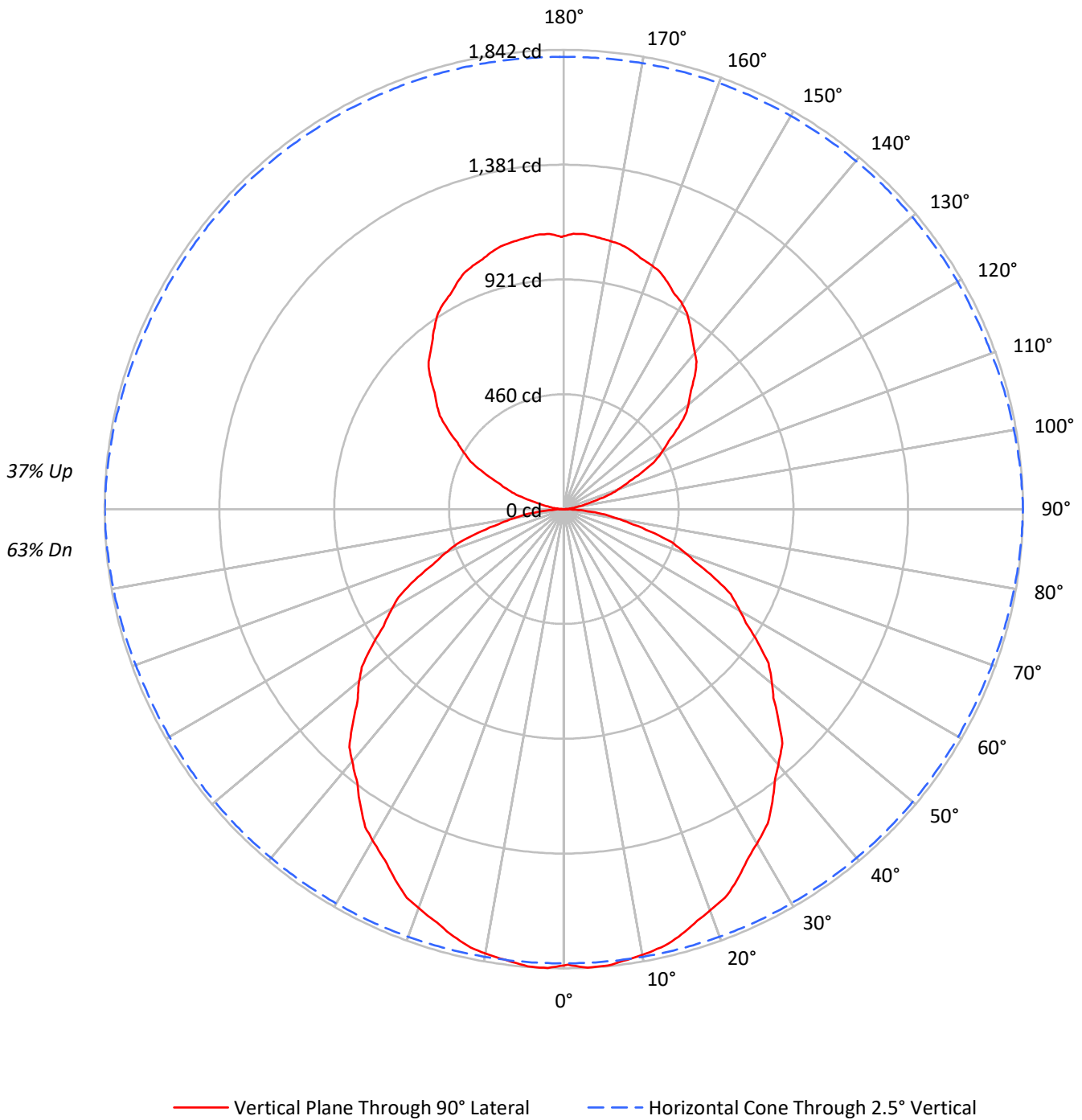
Lumens per Lamp: N/A
Luminaire Lumens: 8138.8 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 84.2
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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	60	58	57	52
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	50	48	44
3	83	73	66	60	78	69	62	57	61	56	51	53	49	46	46	43	40	37
4	76	65	57	50	71	61	54	48	54	48	43	47	43	39	41	38	35	31
5	70	58	49	43	65	54	47	41	48	42	37	42	38	34	37	33	30	27
6	64	52	43	37	60	49	41	36	43	37	33	38	33	30	34	30	26	24
7	60	47	39	33	56	44	37	31	39	33	29	35	30	26	31	27	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	28	23	45	34	27	22	30	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29497	29497	29497
5°	29577	29807	29313
10°	29535	29719	29117
15°	29466	29585	28938
20°	29222	29362	28575
25°	28883	29083	28067
30°	28519	28728	27591
35°	28186	28407	27001
40°	27695	28015	26494
45°	27190	27585	25795
50°	26819	27151	25206
55°	26156	26587	24352
60°	25404	25998	23402
65°	24458	25352	22204
70°	23207	24024	20899
75°	21584	22352	18858
80°	18354	19396	15714
85°	13950	15080	10745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	2.1
10°-20°	493.6	6.1
20°-30°	742.3	9.1
30°-40°	886.8	10.9
40°-50°	912.0	11.2
50°-60°	821.0	10.1
60°-70°	625.4	7.7
70°-80°	356.5	4.4
80°-90°	92.8	1.1
90°-100°	27.6	0.3
100°-110°	122.3	1.5
110°-120°	351.6	4.3
120°-130°	535.5	6.6
130°-140°	581.3	7.1
140°-150°	555.9	6.8
150°-160°	458.0	5.6
160°-170°	299.7	3.7
170°-180°	103.7	1.3
0°-30°	1408.7	17.3
0°-40°	2295.5	28.2
0°-60°	4028.6	49.5
0°-90°	5103.2	62.7
90°-120°	501.5	6.2
90°-150°	2174.2	26.7
90°-180°	3036.0	37.3
0°-180°	8138.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1827	1827	1827	1827	1827	
5°	1825	1824	1839	1813	1809	173
15°	1763	1763	1770	1740	1731	497
25°	1621	1636	1632	1602	1576	747
35°	1430	1446	1441	1407	1370	893
45°	1191	1206	1208	1164	1130	920
55°	929	940	944	897	865	830
65°	640	652	664	613	581	633
75°	346	353	358	319	302	365
85°	75	88	81	69	58	89
90°	0	0	0	0	0	3
95°	4	6	19	43	42	6
105°	28	74	140	97	103	32
115°	264	693	354	166	186	364
125°	1047	912	565	280	238	919
135°	1154	1045	749	464	370	891
145°	1208	1125	894	660	564	757
155°	1220	1170	1000	828	755	565
165°	1195	1164	1073	964	917	339
175°	1125	1128	1105	1056	1031	109
180°	1092	1092	1092	1092	1092	



TEST NUMBER: P522561

CATALOG NUMBER: SQW-F-075U-125D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9
2.5°	1821.2	1825.2	1826.9	1825.7	1841.6	1823.3	1823.7	1818.7	1813.1
5°	1824.9	1822.9	1823.9	1820.2	1839.1	1815.3	1812.7	1807.6	1808.6
7.5°	1812.9	1811.5	1812.3	1807.0	1824.9	1800.8	1798.8	1793.5	1793.1
10°	1801.5	1798.5	1802.5	1794.8	1812.7	1787.8	1784.2	1778.0	1776.0
12.5°	1788.4	1784.7	1789.5	1780.1	1797.2	1769.9	1769.5	1760.9	1759.7
15°	1762.8	1762.8	1762.8	1755.0	1769.9	1742.1	1740.4	1731.2	1731.2
17.5°	1726.8	1727.6	1732.9	1722.6	1734.9	1708.0	1704.6	1693.8	1692.4
20°	1700.7	1700.7	1710.9	1694.9	1708.9	1682.0	1679.3	1662.1	1663.1
22.5°	1669.8	1669.8	1682.4	1668.0	1680.4	1653.5	1650.0	1629.5	1630.5
25°	1621.3	1619.3	1635.6	1621.6	1632.5	1605.7	1602.0	1577.5	1575.5
27.5°	1567.2	1569.0	1584.7	1570.1	1580.0	1550.7	1551.7	1522.5	1518.9
30°	1529.7	1530.7	1548.0	1535.0	1540.9	1514.1	1513.4	1481.8	1479.9
32.5°	1490.6	1490.8	1509.0	1493.5	1502.7	1475.0	1471.1	1441.1	1438.3
35°	1430.0	1429.0	1446.3	1435.2	1441.2	1412.3	1406.6	1378.9	1369.9
37.5°	1361.2	1362.0	1378.3	1371.9	1375.6	1348.0	1336.8	1309.2	1305.8
40°	1314.0	1314.0	1330.2	1326.2	1329.2	1302.4	1289.5	1261.9	1257.0
42.5°	1265.1	1266.7	1281.4	1278.3	1285.3	1256.0	1239.9	1213.9	1207.3
45°	1190.8	1193.8	1206.1	1203.1	1208.1	1183.2	1164.3	1136.7	1129.7
47.5°	1120.6	1117.6	1131.4	1129.6	1131.4	1107.1	1088.2	1059.6	1054.0
50°	1067.7	1064.7	1076.8	1079.9	1080.9	1055.0	1036.1	1007.5	1003.5
52.5°	1013.1	1010.1	1023.1	1027.8	1028.0	1003.7	981.6	954.6	950.6
55°	929.2	924.3	940.4	946.5	944.5	923.6	896.7	873.1	865.1
57.5°	844.6	844.0	857.8	863.3	862.1	841.4	814.6	790.6	782.5
60°	786.7	783.8	800.0	807.1	805.1	785.2	755.2	733.6	724.7
62.5°	728.9	729.1	743.0	749.3	751.3	727.4	699.8	675.0	668.5
65°	640.2	636.2	652.4	658.6	663.6	638.7	612.7	588.1	581.2
67.5°	551.0	548.0	559.2	566.4	570.8	548.5	523.1	502.7	499.7
70°	491.6	488.6	499.7	506.9	508.9	489.0	462.1	445.7	442.7
72.5°	433.0	430.0	438.7	445.9	450.3	428.8	403.4	387.8	380.9
75°	346.0	344.1	353.2	353.3	358.3	337.4	318.6	303.3	302.3
77.5°	259.3	260.7	267.3	267.7	268.9	253.4	238.6	221.2	220.2
80°	197.4	204.4	208.6	210.6	208.6	198.7	183.2	169.9	169.0
82.5°	146.2	151.5	159.8	158.5	154.9	147.3	135.2	122.7	121.7
85°	75.3	80.3	87.5	87.4	81.4	77.4	69.2	59.0	58.0
87.5°	17.9	21.1	28.5	30.8	25.2	26.0	17.9	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	1.6	2.5	4.1	15.2	17.1	15.5	14.7
95°	4.1	4.1	6.1	19.3	19.3	31.3	42.7	41.7	41.7
97.5°	9.2	10.2	14.2	58.9	44.0	42.8	61.1	67.2	67.8
100°	13.2	14.2	22.4	96.0	65.1	55.2	65.1	79.5	82.4
102.5°	18.1	19.9	35.4	151.5	92.0	66.1	76.5	86.8	89.8
105°	27.5	30.5	74.3	253.9	140.5	87.7	96.7	101.8	102.8
107.5°	41.3	52.5	203.4	357.1	199.3	116.1	121.3	124.8	126.0
110°	56.0	79.9	353.2	419.4	243.3	137.8	134.3	143.5	141.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	94.2	164.3	518.5	470.5	287.2	163.4	146.6	161.4	162.6
115°	263.6	452.7	693.1	543.3	354.2	207.9	165.9	180.3	186.3
117.5°	661.6	787.1	785.1	610.6	418.5	260.3	189.1	196.0	202.7
120°	889.5	908.5	831.5	656.1	460.0	297.8	208.6	205.7	211.7
122.5°	974.2	958.9	866.5	696.0	502.4	337.0	233.9	216.3	221.5
125°	1047.3	1017.4	911.9	753.0	564.9	394.7	279.9	239.2	238.2
127.5°	1087.8	1056.6	956.3	802.4	622.3	454.7	332.2	271.5	262.4
130°	1107.3	1078.5	987.2	832.7	660.5	495.3	370.5	299.9	286.0
132.5°	1131.0	1099.7	1009.2	863.8	697.2	533.6	408.7	334.1	317.8
135°	1154.2	1125.3	1045.3	904.3	749.1	589.9	464.1	390.4	369.5
137.5°	1174.9	1148.5	1078.2	936.2	795.9	645.2	522.7	450.9	425.4
140°	1188.8	1159.9	1092.1	960.7	824.4	680.1	561.8	490.1	470.2
142.5°	1193.7	1175.9	1106.7	981.4	856.2	713.5	600.9	526.8	508.5
145°	1208.1	1196.2	1124.7	1006.1	893.6	763.2	660.5	583.8	563.9
147.5°	1217.5	1199.6	1141.1	1032.8	930.3	807.8	714.7	641.0	622.5
150°	1218.3	1204.4	1154.2	1049.2	954.7	840.2	748.1	678.5	661.6
152.5°	1224.8	1207.7	1160.7	1063.2	972.6	867.7	781.5	716.7	698.2
155°	1220.3	1208.4	1170.5	1081.1	1000.5	903.0	828.5	771.1	755.2
157.5°	1220.3	1205.6	1171.7	1095.0	1027.4	941.8	872.4	819.5	807.5
160°	1212.2	1206.2	1172.5	1104.9	1041.2	963.6	901.8	853.6	837.6
162.5°	1208.9	1199.0	1174.1	1111.5	1053.4	981.4	927.0	881.3	869.4
165°	1194.9	1185.9	1164.3	1114.5	1072.7	1013.0	963.8	923.0	917.0
167.5°	1178.8	1171.8	1157.6	1119.4	1085.6	1036.8	995.4	962.4	954.3
170°	1167.4	1156.5	1151.1	1121.9	1092.1	1051.3	1015.7	986.0	977.1
172.5°	1147.9	1146.5	1142.2	1115.7	1097.8	1064.1	1034.5	1007.3	1001.5
175°	1124.7	1124.7	1127.7	1111.3	1105.3	1077.4	1056.5	1040.0	1031.0
177.5°	1097.8	1098.6	1105.1	1104.3	1105.1	1089.2	1083.1	1067.6	1066.0
180°	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1

(END OF REPORT)