

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: P511864

Luminaire Tested: **SQW-F-100U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511864
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-18,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-100U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

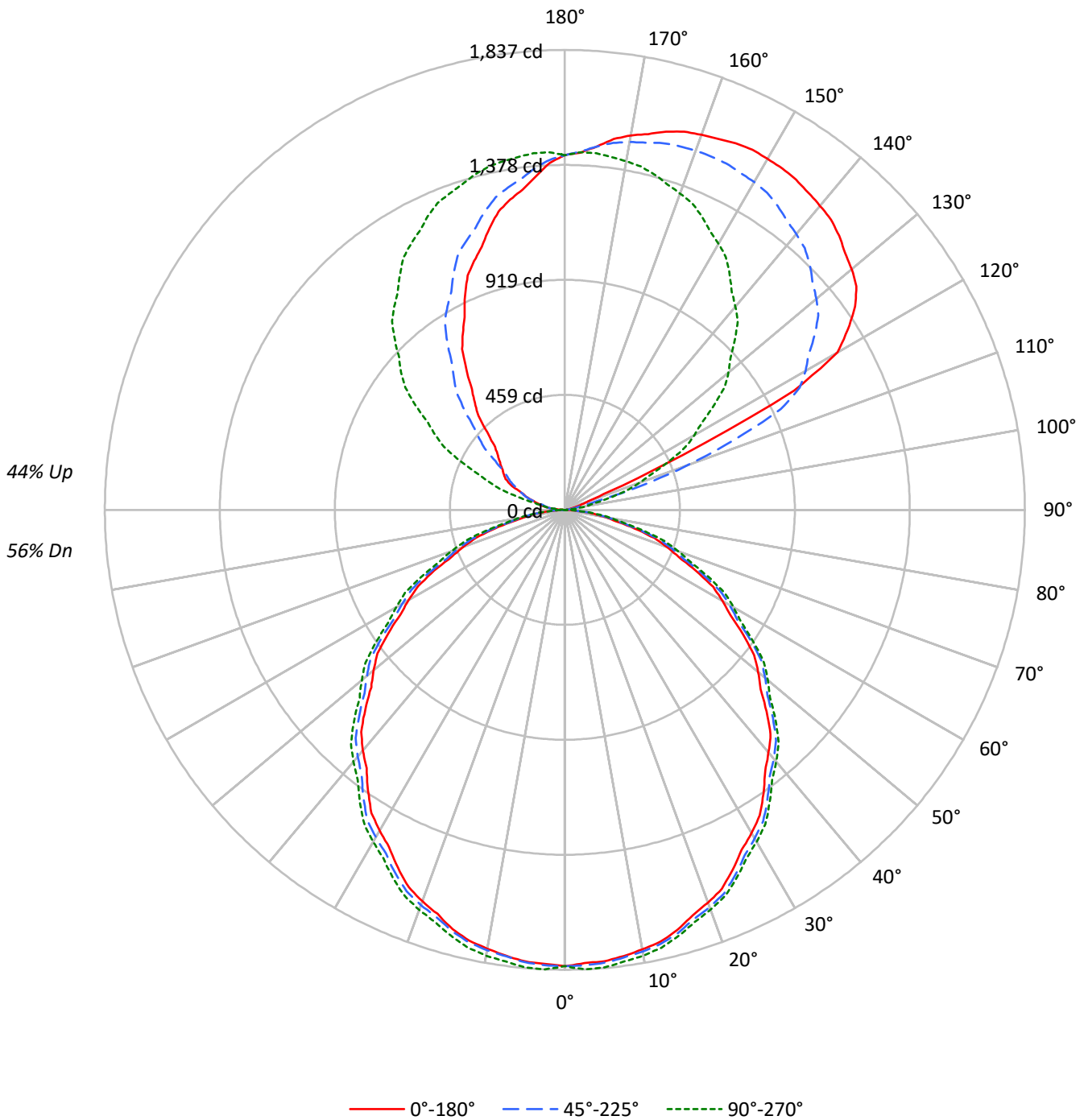
Lumens per Lamp: N/A
Luminaire Lumens: 8939.5 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 73.8
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	50	30	10	0	
RCR																						
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56				
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52	47				
2	90	83	76	71	83	77	71	67	66	62	59	57	54	51	48	45	43	39				
3	82	72	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28				
5	69	57	49	43	64	53	46	40	46	41	36	40	35	32	34	30	28	24				
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	31	27	24	21				
7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	24	21	19				
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	26	22	19	17				
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	24	20	17	15				
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	58868	58868	58868
5°	58672	59450	58704
10°	58465	59284	58366
15°	58070	58872	57936
20°	57388	58419	57182
25°	56509	57828	56189
30°	55596	57087	55148
35°	54519	56214	54007
40°	53325	55348	52861
45°	52015	54344	51467
50°	50639	53151	50036
55°	48980	51739	48474
60°	46888	50182	46436
65°	44241	48214	43935
70°	40882	45414	40599
75°	35933	41048	36057
80°	29010	34031	29754
85°	16673	23342	20007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	1.9
10°-20°	491.1	5.5
20°-30°	736.0	8.2
30°-40°	875.4	9.8
40°-50°	896.3	10.0
50°-60°	799.2	8.9
60°-70°	597.0	6.7
70°-80°	327.1	3.7
80°-90°	77.3	0.9
90°-100°	34.8	0.4
100°-110°	164.5	1.8
110°-120°	483.5	5.4
120°-130°	702.9	7.9
130°-140°	752.0	8.4
140°-150°	716.8	8.0
150°-160°	591.4	6.6
160°-170°	387.4	4.3
170°-180°	134.4	1.5
0°-30°	1399.5	15.7
0°-40°	2274.8	25.4
0°-60°	3970.4	44.4
0°-90°	4971.8	55.6
90°-120°	682.8	7.6
90°-150°	2854.5	31.9
90°-180°	3968.0	44.4
0°-180°	8939.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1823	1823	1823	1823	1823	
5°	1810	1816	1834	1814	1811	172
15°	1737	1749	1761	1741	1733	489
25°	1586	1610	1623	1602	1577	730
35°	1383	1411	1426	1402	1370	864
45°	1139	1175	1190	1161	1127	878
55°	870	904	919	894	861	776
65°	579	607	631	602	575	573
75°	288	310	329	307	289	307
85°	45	60	63	62	54	64
90°	3	3	2	4	8	2
95°	10	12	27	42	38	11
105°	44	123	182	116	124	54
115°	520	951	461	220	240	590
125°	1416	1218	726	338	312	1254
135°	1549	1384	960	567	438	1196
145°	1610	1482	1148	818	687	1009
155°	1616	1526	1294	1048	943	747
165°	1564	1516	1386	1234	1164	444
175°	1456	1456	1430	1370	1336	141
180°	1417	1417	1417	1417	1417	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0
2.5°	1811.8	1820.4	1821.4	1820.2	1837.4	1821.0	1821.4	1819.7	1815.0
5°	1810.0	1812.0	1816.0	1813.5	1834.0	1812.5	1814.0	1810.0	1811.0
7.5°	1797.4	1798.8	1803.2	1798.5	1819.2	1798.3	1798.8	1794.6	1796.8
10°	1783.0	1785.9	1792.0	1786.5	1808.0	1785.5	1786.0	1781.0	1780.0
12.5°	1767.0	1768.4	1776.0	1770.5	1790.4	1768.7	1770.0	1762.6	1763.2
15°	1737.0	1741.9	1749.0	1740.5	1761.0	1739.5	1741.0	1734.0	1733.0
17.5°	1698.0	1706.6	1713.8	1705.3	1725.6	1703.5	1704.8	1695.1	1692.0
20°	1670.0	1677.8	1689.0	1680.4	1700.0	1675.6	1680.0	1664.0	1664.0
22.5°	1638.8	1643.5	1659.4	1650.1	1670.4	1646.0	1649.6	1629.6	1630.4
25°	1586.0	1592.8	1610.0	1602.5	1623.0	1597.6	1602.0	1579.0	1577.0
27.5°	1530.2	1538.2	1556.0	1549.1	1569.4	1544.2	1547.4	1522.1	1519.0
30°	1491.0	1499.8	1516.0	1511.4	1531.0	1506.6	1509.0	1482.9	1479.0
32.5°	1447.8	1458.2	1474.4	1473.8	1490.2	1468.1	1468.2	1441.3	1436.6
35°	1383.0	1392.8	1411.0	1411.3	1426.0	1403.5	1402.0	1375.9	1370.0
37.5°	1313.8	1324.9	1343.6	1346.1	1359.4	1338.5	1332.4	1306.3	1301.2
40°	1265.0	1277.7	1298.0	1301.3	1313.0	1290.5	1286.0	1259.9	1254.0
42.5°	1216.2	1228.9	1249.2	1254.0	1264.2	1245.6	1236.4	1210.2	1203.6
45°	1139.0	1152.7	1175.0	1182.2	1190.0	1173.4	1161.0	1134.8	1127.0
47.5°	1060.8	1073.5	1096.8	1106.7	1111.6	1097.5	1084.6	1057.4	1048.8
50°	1008.0	1020.7	1044.0	1053.1	1058.0	1046.3	1031.0	1003.8	996.0
52.5°	952.8	965.5	988.8	999.5	1003.6	993.4	978.2	951.0	943.2
55°	870.0	880.8	904.0	917.0	919.0	912.2	894.0	867.8	861.0
57.5°	783.6	794.2	817.2	831.3	834.6	827.8	808.4	782.5	776.6
60°	726.0	735.8	758.0	772.1	777.0	770.2	750.0	724.9	719.0
62.5°	667.6	676.6	698.0	712.9	719.4	711.8	690.8	666.5	660.6
65°	579.0	586.8	607.0	627.1	631.0	622.2	602.0	578.9	575.0
67.5°	491.4	497.3	516.2	535.9	541.0	532.0	511.2	491.5	486.8
70°	433.0	438.9	457.0	475.1	481.0	471.2	452.0	433.9	430.0
72.5°	374.6	379.7	397.8	414.3	420.2	412.0	392.8	376.3	372.4
75°	288.0	293.9	310.0	325.1	329.0	323.1	307.0	292.9	289.0
77.5°	207.2	210.9	224.8	236.5	239.8	235.5	223.2	210.8	208.8
80°	156.0	158.9	172.0	182.0	183.0	181.0	172.0	162.0	160.0
82.5°	108.8	112.5	124.8	133.2	131.0	132.2	125.6	116.4	115.2
85°	45.0	47.0	60.0	67.9	63.0	67.9	62.0	55.0	54.0
87.5°	5.4	6.2	11.0	19.5	17.2	21.3	17.6	13.4	13.6
90°	3.0	3.0	3.0	2.0	2.0	2.9	3.9	6.9	7.9
92.5°	5.3	5.3	5.3	6.7	7.5	15.4	10.3	11.6	11.1
95°	9.9	10.8	11.8	30.5	26.6	39.2	42.4	40.4	37.5
97.5°	17.4	18.3	24.7	83.5	59.0	53.2	69.5	73.5	69.7
100°	23.7	24.6	36.5	135.0	85.8	68.5	78.9	91.8	91.8
102.5°	30.8	32.5	57.8	203.7	120.6	86.2	90.8	102.9	106.0
105°	44.4	49.2	123.3	344.6	182.5	115.0	116.4	121.4	124.3
107.5°	69.3	88.9	318.7	477.3	260.3	150.3	153.5	151.7	150.4
110°	97.7	142.1	523.9	558.9	318.7	177.8	175.6	174.6	171.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	182.9	303.7	734.7	630.4	376.3	208.4	193.0	204.5	199.3
115°	520.0	739.9	951.1	729.9	460.8	262.0	220.0	235.9	239.8
117.5°	1032.2	1116.6	1057.9	814.2	543.3	323.7	244.7	259.3	266.8
120°	1258.0	1239.7	1110.0	870.9	596.9	367.3	264.4	273.5	280.2
122.5°	1339.3	1296.3	1153.4	919.9	648.2	414.8	289.7	286.1	294.4
125°	1415.9	1359.9	1218.5	986.7	726.2	490.8	338.4	306.0	311.8
127.5°	1467.4	1408.9	1275.8	1051.3	802.9	568.9	402.2	337.5	331.5
130°	1495.8	1438.9	1311.3	1087.9	853.5	621.0	447.9	365.7	351.3
132.5°	1517.9	1465.6	1342.1	1127.4	896.9	670.5	495.3	402.7	381.2
135°	1549.1	1499.9	1384.3	1180.0	960.0	743.9	567.3	469.0	438.1
137.5°	1572.9	1527.0	1418.0	1225.7	1021.8	815.1	640.7	543.1	511.3
140°	1585.6	1541.2	1438.6	1253.6	1059.7	860.0	689.7	591.3	559.4
142.5°	1596.6	1553.8	1455.9	1280.6	1096.0	904.0	741.8	640.2	610.0
145°	1610.2	1569.7	1482.0	1319.2	1147.5	969.0	817.9	714.7	686.7
147.5°	1616.7	1580.5	1502.1	1353.3	1197.4	1031.1	891.5	792.8	762.7
150°	1619.1	1584.4	1511.6	1374.0	1227.4	1071.1	937.3	844.9	814.0
152.5°	1621.5	1585.2	1517.9	1391.6	1255.0	1108.0	982.3	894.7	866.9
155°	1616.2	1584.3	1526.4	1413.2	1294.5	1160.4	1047.8	967.4	943.2
157.5°	1603.9	1582.5	1528.1	1430.6	1325.9	1208.0	1109.4	1036.4	1012.7
160°	1594.4	1576.1	1527.4	1440.3	1344.8	1237.7	1146.5	1079.9	1057.7
162.5°	1584.2	1565.1	1523.4	1446.9	1363.0	1265.9	1182.8	1118.7	1101.1
165°	1563.9	1546.5	1516.5	1453.8	1386.3	1304.3	1234.3	1178.7	1164.3
167.5°	1537.4	1526.6	1502.1	1455.9	1404.4	1337.8	1278.1	1233.6	1220.9
170°	1518.5	1510.8	1491.8	1455.4	1413.9	1358.9	1307.3	1267.6	1258.0
172.5°	1494.0	1490.9	1478.4	1452.5	1421.8	1376.1	1332.6	1298.4	1289.6
175°	1456.3	1460.2	1456.3	1445.1	1429.7	1398.8	1369.5	1342.7	1335.9
177.5°	1427.9	1429.4	1431.8	1431.8	1429.5	1415.6	1399.5	1385.3	1386.9
180°	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8

(END OF REPORT)