

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: P522609

Luminaire Tested: **SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522609
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-100U-125D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

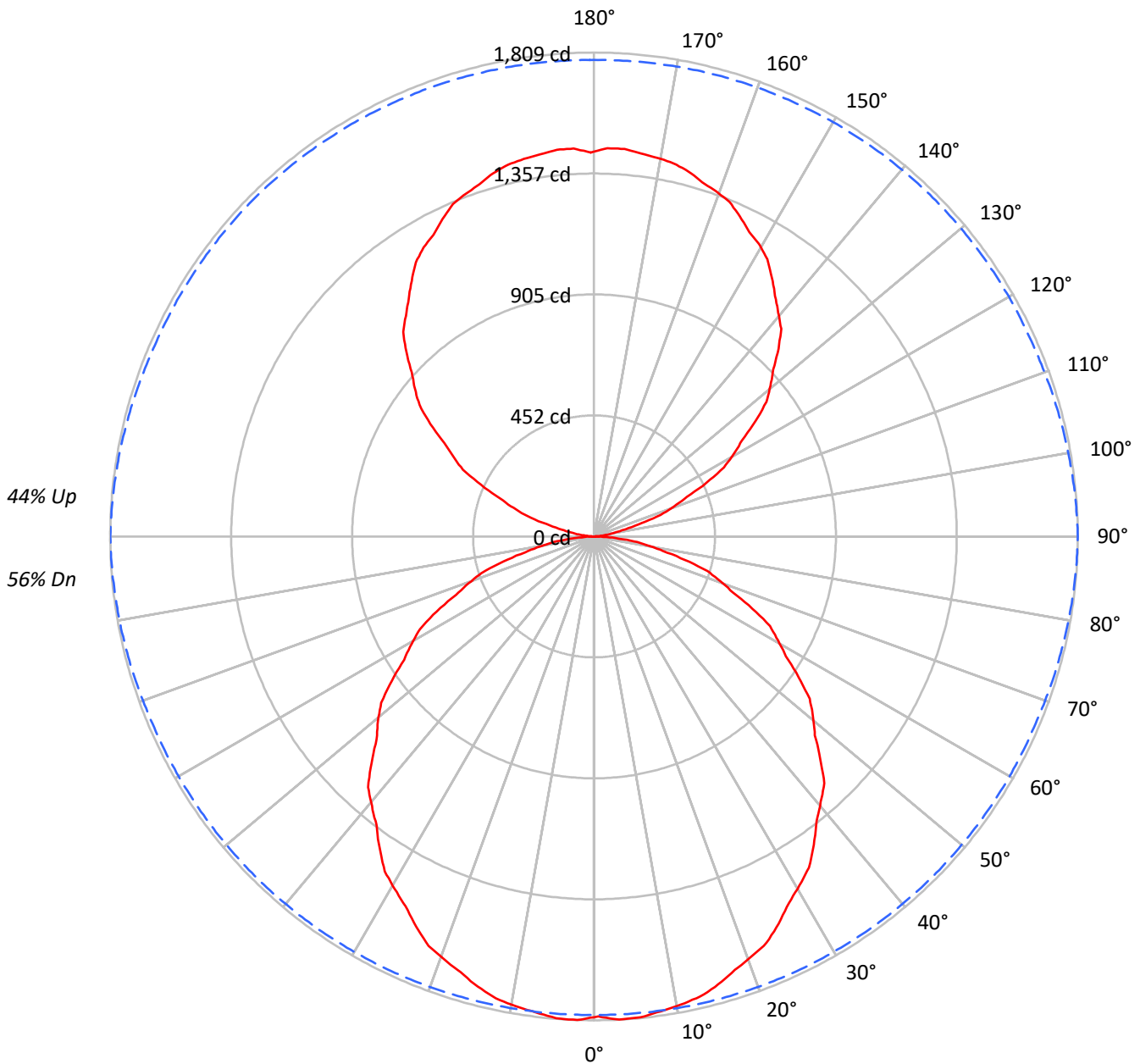
Lumens per Lamp: N/A
Luminaire Lumens: 9003.7 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 93.5
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	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	94	91	87	92	88	84	81	76	73	71	64	63	61	54	53	52	47				
2	90	82	76	71	83	77	71	67	66	62	58	56	53	51	47	45	43	39				
3	82	72	65	59	76	67	61	55	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	69	60	52	47	52	46	42	44	40	36	37	34	31	28				
5	69	57	49	42	64	53	46	40	46	40	36	40	35	31	33	30	27	24				
6	63	51	43	37	59	48	40	35	42	36	31	36	31	27	30	27	24	21				
7	58	46	38	32	54	43	36	31	38	32	27	32	28	24	28	24	21	19				
8	54	42	34	28	50	39	32	27	34	28	24	30	25	22	25	22	19	17				
9	51	38	30	25	47	36	29	24	31	26	22	27	23	19	23	20	17	15				
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	22	18	15	14				

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	1.9
10°-20°	485.0	5.4
20°-30°	729.4	8.1
30°-40°	871.3	9.7
40°-50°	896.1	10.0
50°-60°	806.7	9.0
60°-70°	614.4	6.8
70°-80°	350.2	3.9
80°-90°	91.2	1.0
90°-100°	36.3	0.4
100°-110°	160.8	1.8
110°-120°	462.1	5.1
120°-130°	703.8	7.8
130°-140°	764.0	8.5
140°-150°	730.6	8.1
150°-160°	601.9	6.7
160°-170°	393.9	4.4
170°-180°	136.3	1.5
0°-30°	1384.1	15.4
0°-40°	2255.4	25.0
0°-60°	3958.2	44.0
0°-90°	5014.1	55.7
90°-120°	659.1	7.3
90°-150°	2857.6	31.7
90°-180°	3990.0	44.3
0°-180°	9003.7	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	3
95°	5	8	25	56	55	7
105°	36	98	185	127	135	42
115°	346	911	466	218	245	479
125°	1376	1199	742	368	313	1208
135°	1517	1374	984	610	486	1171
145°	1588	1478	1174	868	741	995
155°	1604	1538	1315	1089	993	742
165°	1570	1530	1410	1267	1205	445
175°	1478	1482	1453	1388	1355	143
180°	1435	1435	1435	1435	1435	



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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°	1.1	1.1	2.1	3.3	5.4	20.0	22.5	20.3	19.3
95°	5.4	5.4	8.0	25.4	25.4	41.1	56.2	54.8	54.8
97.5°	12.0	13.3	18.7	77.4	57.8	56.2	80.3	88.3	89.1
100°	17.4	18.7	29.4	126.2	85.6	72.5	85.6	104.4	108.4
102.5°	23.8	26.2	46.6	199.1	120.9	86.9	100.6	114.1	118.0
105°	36.1	40.0	97.7	333.7	184.6	115.3	127.1	133.8	135.1
107.5°	54.3	69.0	267.3	469.4	261.9	152.6	159.5	164.0	165.6
110°	73.6	105.0	464.2	551.2	319.7	181.1	176.6	188.6	185.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	123.9	216.0	681.4	618.4	377.5	214.8	192.6	212.2	213.8
115°	346.5	595.0	911.0	714.0	465.5	273.2	218.0	236.9	244.8
117.5°	869.5	1034.6	1031.9	802.5	550.1	342.1	248.5	257.6	266.5
120°	1169.1	1194.0	1092.9	862.3	604.6	391.4	274.2	270.4	278.2
122.5°	1280.4	1260.3	1138.9	914.8	660.3	442.9	307.4	284.3	291.1
125°	1376.5	1337.2	1198.6	989.6	742.4	518.8	367.9	314.3	313.0
127.5°	1429.7	1388.7	1256.9	1054.6	817.9	597.6	436.6	356.9	344.9
130°	1455.4	1417.5	1297.6	1094.4	868.2	651.0	486.9	394.2	375.9
132.5°	1486.4	1445.4	1326.5	1135.3	916.3	701.3	537.2	439.1	417.6
135°	1516.9	1479.0	1373.8	1188.6	984.5	775.3	610.0	513.0	485.6
137.5°	1544.2	1509.4	1417.1	1230.5	1046.1	848.0	687.0	592.6	559.2
140°	1562.4	1524.5	1435.3	1262.7	1083.5	893.9	738.4	644.2	618.0
142.5°	1568.8	1545.6	1454.6	1289.8	1125.3	937.7	789.8	692.4	668.3
145°	1587.8	1572.1	1478.1	1322.3	1174.5	1003.1	868.2	767.2	741.1
147.5°	1600.1	1576.6	1499.8	1357.4	1222.6	1061.8	939.3	842.5	818.1
150°	1601.2	1582.9	1516.9	1379.0	1254.8	1104.3	983.2	891.7	869.5
152.5°	1609.8	1587.3	1525.5	1397.3	1278.3	1140.4	1027.1	942.0	917.7
155°	1603.9	1588.2	1538.3	1420.9	1314.9	1186.8	1088.9	1013.5	992.6
157.5°	1603.9	1584.5	1539.9	1439.2	1350.3	1237.8	1146.7	1077.0	1061.3
160°	1593.2	1585.3	1541.0	1452.2	1368.5	1266.4	1185.2	1121.8	1100.9
162.5°	1588.9	1575.8	1543.2	1460.9	1384.5	1289.8	1218.4	1158.3	1142.7
165°	1570.4	1558.7	1530.3	1464.9	1409.9	1331.4	1266.8	1213.1	1205.3
167.5°	1549.3	1540.2	1521.5	1471.2	1426.8	1362.7	1308.3	1264.9	1254.2
170°	1534.3	1519.9	1512.9	1474.6	1435.3	1381.7	1335.0	1296.0	1284.2
172.5°	1508.6	1506.8	1501.2	1466.4	1442.8	1398.6	1359.6	1323.9	1316.3
175°	1478.1	1478.1	1482.2	1460.6	1452.7	1416.1	1388.5	1366.9	1355.1
177.5°	1442.8	1443.9	1452.5	1451.4	1452.5	1431.5	1423.6	1403.2	1401.1
180°	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3

(END OF REPORT)