

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: P522608

Luminaire Tested: **SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522608
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

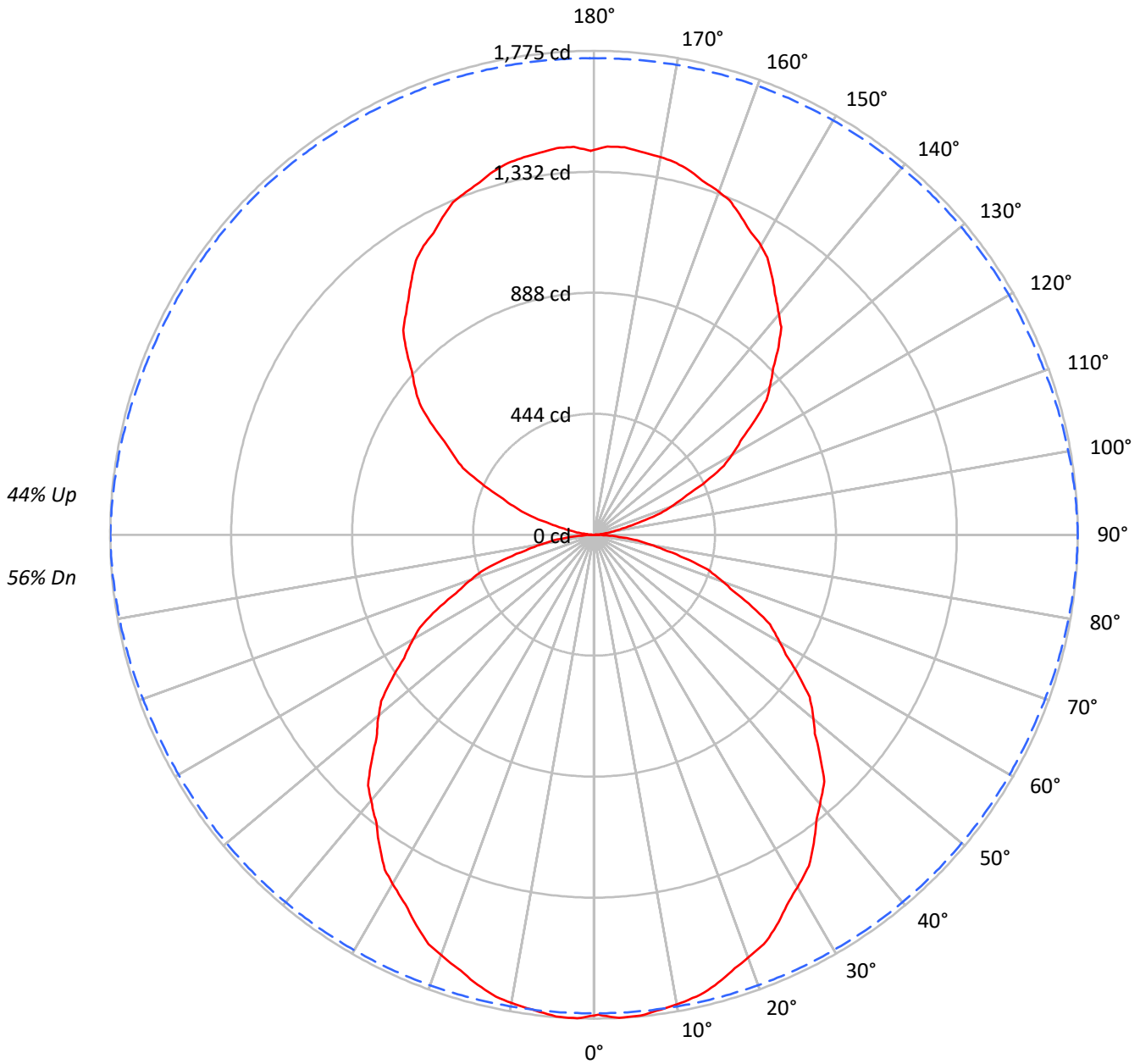
Lumens per Lamp: N/A
Luminaire Lumens: 8834.5 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 93.4
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				
RC	80					70					50					30				
RW	70	50	30	10	70	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°	28438	28438	28438
5°	28514	28736	28259
10°	28473	28650	28071
15°	28408	28521	27898
20°	28172	28307	27548
25°	27847	28039	27059
30°	27496	27697	26599
35°	27173	27386	26032
40°	26698	27010	25541
45°	26213	26594	24868
50°	25854	26173	24302
55°	25216	25633	23477
60°	24493	25062	22559
65°	23580	24439	21406
70°	22372	23160	20148
75°	20811	21547	18178
80°	17703	18698	15146
85°	13449	14542	10356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	1.9
10°-20°	475.9	5.4
20°-30°	715.7	8.1
30°-40°	854.9	9.7
40°-50°	879.3	10.0
50°-60°	791.5	9.0
60°-70°	602.9	6.8
70°-80°	343.7	3.9
80°-90°	89.5	1.0
90°-100°	35.6	0.4
100°-110°	157.8	1.8
110°-120°	453.4	5.1
120°-130°	690.6	7.8
130°-140°	749.7	8.5
140°-150°	716.9	8.1
150°-160°	590.6	6.7
160°-170°	386.5	4.4
170°-180°	133.8	1.5
0°-30°	1358.1	15.4
0°-40°	2213.0	25.0
0°-60°	3883.8	44.0
0°-90°	4919.8	55.7
90°-120°	646.8	7.3
90°-150°	2803.9	31.7
90°-180°	3915.0	44.3
0°-180°	8834.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1761	1761	1761	1761	1761	
5°	1759	1758	1773	1748	1744	167
15°	1700	1700	1706	1678	1669	479
25°	1563	1577	1574	1544	1519	720
35°	1379	1394	1389	1356	1321	861
45°	1148	1163	1165	1122	1089	887
55°	896	907	911	864	834	801
65°	617	629	640	591	560	610
75°	334	340	345	307	291	351
85°	73	84	78	67	56	86
90°	0	0	0	0	0	3
95°	5	8	25	55	54	7
105°	35	96	181	125	133	41
115°	340	894	457	214	240	470
125°	1351	1176	728	361	307	1186
135°	1488	1348	966	598	476	1149
145°	1558	1450	1152	852	727	976
155°	1574	1509	1290	1068	974	728
165°	1541	1502	1383	1243	1183	437
175°	1450	1454	1425	1362	1330	140
180°	1408	1408	1408	1408	1408	



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CATALOG NUMBER: SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1755.8	1759.6	1761.3	1760.1	1775.4	1757.8	1758.1	1753.3	1747.9
5°	1759.3	1757.4	1758.3	1754.8	1773.0	1750.0	1747.5	1742.7	1743.6
7.5°	1747.7	1746.4	1747.1	1742.0	1759.3	1736.1	1734.2	1729.1	1728.7
10°	1736.7	1733.9	1737.7	1730.3	1747.5	1723.6	1720.1	1714.1	1712.2
12.5°	1724.2	1720.5	1725.2	1716.1	1732.6	1706.3	1705.9	1697.7	1696.5
15°	1699.5	1699.5	1699.5	1691.9	1706.3	1679.5	1677.9	1669.0	1669.0
17.5°	1664.7	1665.5	1670.6	1660.7	1672.6	1646.7	1643.3	1632.9	1631.6
20°	1639.6	1639.6	1649.4	1634.0	1647.5	1621.5	1619.0	1602.3	1603.3
22.5°	1609.8	1609.8	1621.9	1608.1	1620.0	1594.1	1590.7	1570.9	1571.9
25°	1563.1	1561.2	1576.8	1563.3	1573.9	1548.0	1544.4	1520.8	1518.9
27.5°	1510.9	1512.6	1527.7	1513.6	1523.2	1495.0	1496.0	1467.8	1464.4
30°	1474.8	1475.7	1492.4	1479.8	1485.6	1459.7	1459.1	1428.6	1426.7
32.5°	1437.1	1437.3	1454.7	1439.8	1448.7	1422.0	1418.2	1389.3	1386.6
35°	1378.6	1377.6	1394.3	1383.6	1389.4	1361.6	1356.0	1329.3	1320.7
37.5°	1312.3	1313.0	1328.8	1322.6	1326.2	1299.5	1288.7	1262.2	1258.9
40°	1266.7	1266.7	1282.4	1278.6	1281.5	1255.6	1243.2	1216.6	1211.8
42.5°	1219.6	1221.2	1235.3	1232.4	1239.1	1210.9	1195.3	1170.2	1163.9
45°	1148.0	1150.9	1162.7	1159.9	1164.7	1140.7	1122.5	1095.9	1089.1
47.5°	1080.3	1077.4	1090.7	1089.0	1090.7	1067.3	1049.1	1021.5	1016.1
50°	1029.3	1026.4	1038.1	1041.1	1042.0	1017.1	998.9	971.3	967.5
52.5°	976.7	973.8	986.3	990.8	991.0	967.6	946.3	920.3	916.5
55°	895.8	891.0	906.6	912.5	910.6	890.4	864.4	841.7	834.0
57.5°	814.2	813.6	827.0	832.2	831.1	811.1	785.4	762.2	754.4
60°	758.5	755.6	771.2	778.1	776.1	757.0	728.1	707.3	698.6
62.5°	702.7	702.9	716.3	722.4	724.3	701.3	674.7	650.8	644.5
65°	617.2	613.3	629.0	635.0	639.7	615.8	590.7	567.0	560.3
67.5°	531.2	528.3	539.1	546.0	550.3	528.8	504.3	484.7	481.8
70°	473.9	471.0	481.8	488.7	490.6	471.4	445.5	429.7	426.8
72.5°	417.4	414.5	422.9	429.9	434.1	413.4	389.0	373.9	367.2
75°	333.6	331.7	340.5	340.6	345.4	325.2	307.1	292.4	291.4
77.5°	250.0	251.4	257.7	258.1	259.2	244.3	230.0	213.3	212.3
80°	190.4	197.1	201.1	203.1	201.1	191.6	176.6	163.8	162.9
82.5°	140.9	146.1	154.1	152.8	149.3	142.0	130.3	118.3	117.4
85°	72.6	77.4	84.4	84.3	78.5	74.7	66.7	56.9	55.9
87.5°	17.3	20.3	27.5	29.7	24.3	25.1	17.3	10.2	10.2
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	3.2	5.3	19.6	22.1	19.9	18.9
95°	5.3	5.3	7.9	24.9	24.9	40.3	55.1	53.8	53.8
97.5°	11.8	13.1	18.4	76.0	56.7	55.2	78.8	86.6	87.4
100°	17.1	18.3	28.9	123.8	84.0	71.2	84.0	102.5	106.3
102.5°	23.4	25.7	45.7	195.4	118.7	85.3	98.7	111.9	115.8
105°	35.4	39.3	95.8	327.4	181.1	113.1	124.7	131.3	132.6
107.5°	53.3	67.7	262.2	460.5	257.0	149.7	156.5	161.0	162.5
110°	72.2	103.0	455.5	540.9	313.7	177.7	173.3	185.0	182.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	121.5	211.9	668.6	606.8	370.4	210.7	189.0	208.2	209.7
115°	340.0	583.8	893.9	700.6	456.8	268.1	213.9	232.5	240.2
117.5°	853.2	1015.1	1012.5	787.4	539.7	335.7	243.9	252.7	261.5
120°	1147.2	1171.6	1072.4	846.1	593.3	384.1	269.1	265.3	273.0
122.5°	1256.4	1236.6	1117.5	897.6	647.9	434.6	301.6	278.9	285.6
125°	1350.6	1312.1	1176.0	971.0	728.5	509.0	361.0	308.4	307.1
127.5°	1402.9	1362.6	1233.3	1034.8	802.5	586.4	428.4	350.2	338.4
130°	1428.1	1390.8	1273.2	1073.9	851.8	638.8	477.8	386.8	368.8
132.5°	1458.5	1418.2	1301.5	1113.9	899.1	688.1	527.1	430.8	409.8
135°	1488.4	1451.2	1348.0	1166.2	966.0	760.7	598.5	503.4	476.5
137.5°	1515.2	1481.1	1390.5	1207.4	1026.4	832.1	674.1	581.5	548.6
140°	1533.1	1495.8	1408.4	1239.0	1063.2	877.1	724.5	632.1	606.4
142.5°	1539.4	1516.5	1427.3	1265.6	1104.1	920.1	774.9	679.4	655.8
145°	1558.0	1542.6	1450.4	1297.4	1152.4	984.3	851.8	752.8	727.2
147.5°	1570.1	1547.0	1471.6	1331.9	1199.7	1041.8	921.7	826.6	802.8
150°	1571.1	1553.2	1488.4	1353.1	1231.2	1083.6	964.7	875.0	853.2
152.5°	1579.5	1557.5	1496.8	1371.1	1254.3	1119.0	1007.8	924.3	900.4
155°	1573.8	1558.4	1509.4	1394.2	1290.2	1164.5	1068.4	994.5	973.9
157.5°	1573.8	1554.8	1511.0	1412.2	1324.9	1214.5	1125.1	1056.8	1041.4
160°	1563.3	1555.6	1512.1	1424.9	1342.7	1242.6	1162.9	1100.8	1080.2
162.5°	1559.1	1546.2	1514.2	1433.4	1358.5	1265.6	1195.5	1136.6	1121.2
165°	1540.9	1529.4	1501.6	1437.3	1383.4	1306.4	1243.0	1190.3	1182.6
167.5°	1520.2	1511.2	1492.9	1443.6	1400.0	1337.1	1283.7	1241.2	1230.7
170°	1505.5	1491.4	1484.5	1446.9	1408.4	1355.8	1309.9	1271.6	1260.1
172.5°	1480.3	1478.5	1472.9	1438.8	1415.7	1372.3	1334.1	1299.0	1291.6
175°	1450.4	1450.4	1454.3	1433.1	1425.4	1389.5	1362.4	1341.2	1329.6
177.5°	1415.7	1416.7	1425.2	1424.1	1425.2	1404.6	1396.8	1376.8	1374.8
180°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4

(END OF REPORT)