

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: P522407

Luminaire Tested: **SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522407
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

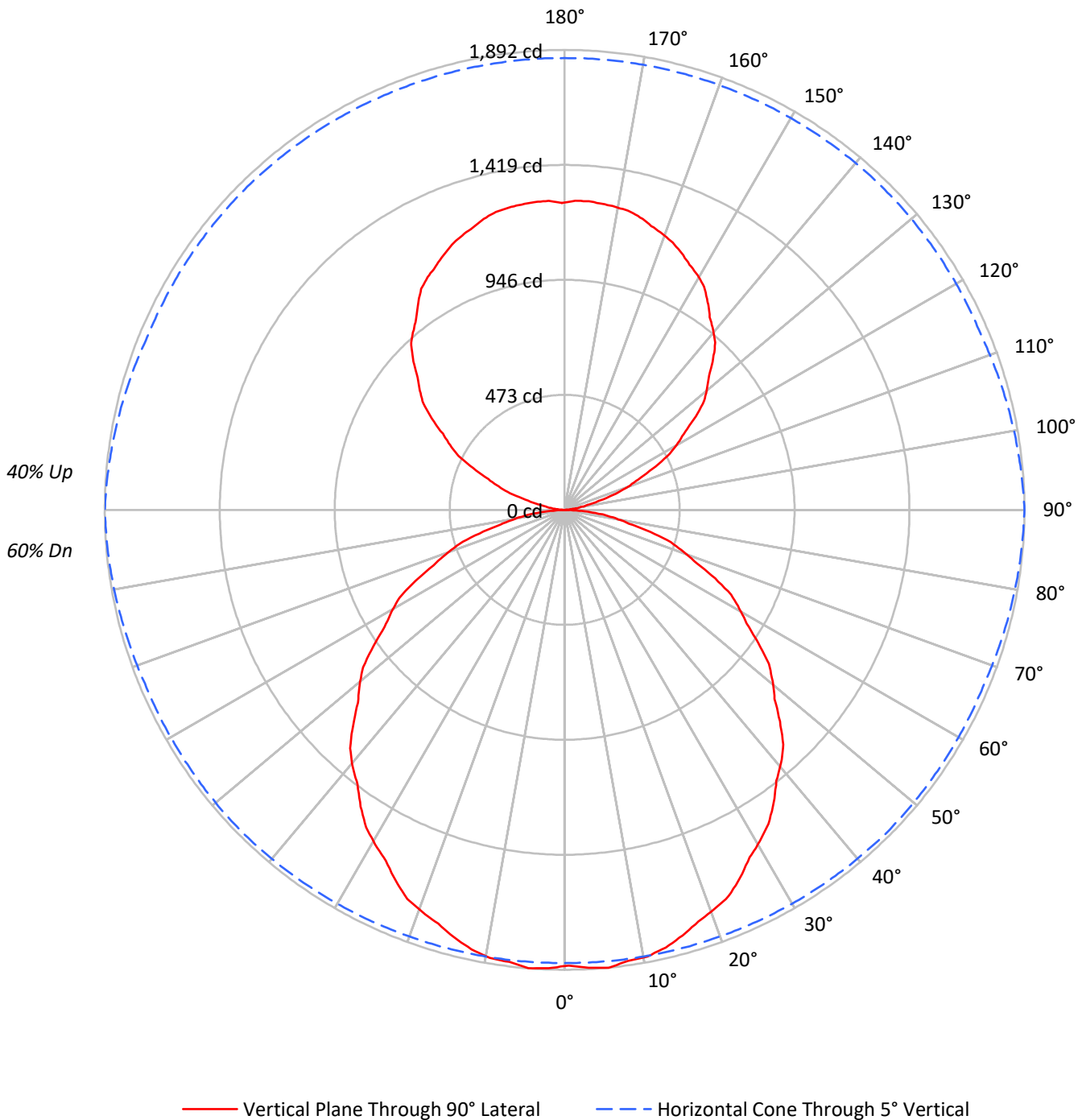
Lumens per Lamp: N/A
Luminaire Lumens: 8753.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 84.5
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





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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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60				
1	100	95	91	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50				
2	91	83	77	71	84	78	72	68	68	64	60	59	56	53	50	48	46	42				
3	83	73	65	59	77	68	62	56	60	55	50	52	48	44	44	41	39	35				
4	76	64	56	50	70	61	53	48	53	47	43	46	42	38	40	36	33	30				
5	69	57	49	43	65	54	46	41	47	41	37	41	37	33	36	32	29	26				
6	64	51	43	37	59	48	41	35	43	37	32	37	32	29	32	28	25	23				
7	59	46	38	33	55	44	36	31	39	33	28	34	29	25	29	25	23	20				
8	55	42	34	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18				
9	51	39	31	26	48	36	29	25	32	27	22	28	24	20	25	21	18	16				
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30265	30265	30265
5°	30208	30658	30120
10°	30258	30627	29872
15°	30223	30365	29882
20°	29926	30146	29244
25°	29462	29863	28853
30°	29276	29496	28476
35°	28819	29199	27784
40°	28424	28896	27453
45°	27857	28346	26756
50°	27228	27846	26206
55°	26534	27167	25267
60°	25701	26666	24454
65°	24554	25987	23037
70°	23207	24576	21640
75°	21248	22720	19513
80°	18326	19721	16532
85°	13097	15283	11504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	2.0
10°-20°	506.7	5.8
20°-30°	762.3	8.7
30°-40°	910.6	10.4
40°-50°	935.7	10.7
50°-60°	841.1	9.6
60°-70°	639.4	7.3
70°-80°	364.3	4.2
80°-90°	94.8	1.1
90°-100°	33.2	0.4
100°-110°	143.6	1.6
110°-120°	409.5	4.7
120°-130°	622.7	7.1
130°-140°	673.5	7.7
140°-150°	643.5	7.4
150°-160°	529.3	6.0
160°-170°	345.8	4.0
170°-180°	119.6	1.4
0°-30°	1446.3	16.5
0°-40°	2356.9	26.9
0°-60°	4133.7	47.2
0°-90°	5232.1	59.8
90°-120°	586.3	6.7
90°-150°	2526.1	28.9
90°-180°	3521.0	40.2
0°-180°	8753.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1874	1874	1874	1874	1874	
5°	1864	1876	1892	1863	1858	177
15°	1808	1802	1817	1796	1788	509
25°	1654	1682	1676	1655	1620	765
35°	1462	1484	1481	1448	1410	914
45°	1220	1234	1241	1202	1172	938
55°	943	962	965	922	898	841
65°	643	658	680	635	603	635
75°	341	352	364	334	313	360
85°	71	85	82	74	62	87
90°	0	0	0	0	0	2
95°	5	8	22	54	50	7
105°	33	85	166	114	122	38
115°	302	803	414	197	223	415
125°	1204	1059	663	326	280	1058
135°	1332	1206	872	541	428	1027
145°	1388	1299	1039	769	656	870
155°	1404	1342	1160	963	874	649
165°	1371	1341	1242	1114	1063	390
175°	1292	1295	1272	1226	1193	125
180°	1262	1262	1262	1262	1262	



TEST NUMBER: P522407

CATALOG NUMBER: SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5
2.5°	1871.9	1870.2	1877.9	1869.7	1885.6	1877.2	1871.9	1875.0	1858.2
5°	1863.8	1868.0	1875.6	1868.6	1891.6	1858.1	1862.7	1859.5	1858.4
7.5°	1857.6	1860.9	1858.8	1854.6	1873.2	1851.8	1849.8	1842.9	1840.8
10°	1845.6	1849.7	1843.4	1846.1	1868.1	1836.6	1837.0	1819.9	1822.0
12.5°	1823.3	1832.5	1830.6	1821.3	1847.5	1821.1	1826.7	1814.6	1810.0
15°	1808.1	1798.6	1801.6	1804.1	1816.6	1787.3	1796.3	1781.4	1787.7
17.5°	1775.9	1770.1	1772.1	1765.8	1780.2	1750.1	1754.9	1743.1	1738.9
20°	1741.7	1741.7	1743.8	1740.9	1754.5	1725.2	1726.7	1706.2	1702.0
22.5°	1716.0	1711.8	1723.2	1714.3	1726.2	1697.7	1697.5	1672.2	1681.5
25°	1653.8	1659.1	1681.7	1661.7	1676.3	1640.7	1654.9	1626.9	1619.6
27.5°	1606.3	1607.9	1620.4	1609.5	1619.8	1592.3	1605.0	1569.6	1559.1
30°	1570.3	1566.1	1589.6	1572.6	1582.1	1562.2	1563.9	1525.3	1527.4
32.5°	1520.6	1521.4	1547.6	1535.7	1540.1	1513.5	1518.4	1490.8	1479.4
35°	1462.1	1462.1	1483.5	1470.9	1481.4	1448.9	1448.2	1419.0	1409.6
37.5°	1394.0	1387.3	1413.3	1406.6	1414.8	1384.6	1374.0	1346.5	1341.1
40°	1348.6	1344.4	1363.6	1359.5	1371.0	1341.7	1326.1	1300.4	1302.5
42.5°	1290.3	1294.5	1310.4	1312.3	1318.8	1286.9	1277.2	1248.1	1250.2
45°	1220.0	1217.9	1233.9	1233.1	1241.4	1214.2	1201.8	1167.6	1171.8
47.5°	1132.8	1135.8	1153.0	1151.1	1162.6	1138.3	1118.5	1095.6	1090.4
50°	1084.0	1086.1	1099.0	1101.3	1108.6	1083.5	1067.9	1044.3	1043.3
52.5°	1024.9	1022.8	1041.6	1046.4	1052.1	1033.6	1013.9	986.9	983.3
55°	942.6	943.6	961.9	969.3	965.1	952.5	922.2	895.5	897.6
57.5°	852.4	860.2	868.7	881.6	882.4	862.1	842.3	816.3	812.1
60°	795.9	796.9	813.0	825.8	825.8	803.8	779.8	757.3	757.3
62.5°	731.6	736.8	750.4	762.6	768.4	750.6	720.7	697.3	695.6
65°	642.7	643.7	657.7	673.9	680.2	656.1	635.2	608.3	603.0
67.5°	550.8	555.2	566.4	579.2	586.6	560.6	538.6	517.6	519.3
70°	491.6	492.7	501.3	517.4	520.6	499.6	477.7	458.4	458.4
72.5°	427.4	434.3	441.3	455.7	458.0	439.6	422.0	403.5	399.3
75°	340.6	345.9	352.4	361.0	364.2	348.5	334.2	318.0	312.8
77.5°	254.5	259.5	270.6	271.8	271.2	260.3	249.1	237.0	231.8
80°	197.1	201.3	213.2	215.2	212.1	203.7	191.7	183.0	177.8
82.5°	143.1	150.6	159.2	161.2	157.2	153.1	142.9	132.5	128.1
85°	70.7	74.9	84.6	88.8	82.5	80.4	73.9	65.3	62.1
87.5°	13.7	17.1	25.7	31.5	24.0	28.2	21.4	15.4	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.7	1.7	1.7	3.5	5.1	18.5	20.6	18.0	18.0
95°	5.4	5.4	7.5	23.5	22.5	38.2	53.6	50.3	50.3
97.5°	10.9	12.0	17.1	69.7	52.5	51.0	72.4	80.6	82.0
100°	16.1	17.1	25.7	113.8	78.2	66.7	79.3	94.3	97.5
102.5°	22.1	24.0	41.1	179.0	109.9	78.3	90.4	103.8	107.8
105°	33.2	36.3	84.6	300.1	166.0	102.1	113.5	119.0	122.1
107.5°	49.3	62.0	227.9	421.7	235.6	134.9	147.0	146.2	148.9
110°	66.4	92.6	394.2	488.2	287.1	160.3	160.7	169.2	166.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	110.1	184.1	587.8	552.1	338.5	190.8	173.5	192.4	193.4
115°	302.1	518.9	803.3	641.8	414.5	244.9	197.1	215.5	222.8
117.5°	748.9	902.7	913.7	721.4	490.4	305.2	224.1	232.2	241.9
120°	1015.4	1046.9	965.1	770.3	540.9	348.2	246.4	243.4	253.9
122.5°	1120.0	1108.7	1007.1	815.8	590.6	393.7	273.8	257.0	264.1
125°	1204.0	1174.6	1059.3	878.8	663.0	461.9	325.6	279.6	279.6
127.5°	1254.1	1219.9	1107.3	934.7	728.4	530.8	388.0	316.2	306.3
130°	1283.2	1246.6	1136.5	973.3	771.2	575.4	431.7	347.8	332.1
132.5°	1305.5	1272.2	1163.9	1003.6	813.2	619.0	475.4	386.9	361.2
135°	1332.5	1304.2	1206.1	1049.9	871.9	684.4	540.9	454.6	428.5
137.5°	1349.8	1327.8	1244.0	1088.0	926.3	749.3	607.1	520.5	496.8
140°	1359.3	1341.5	1262.9	1110.5	959.7	791.1	653.4	565.1	543.1
142.5°	1368.7	1354.2	1276.6	1135.6	992.3	832.9	698.8	610.4	586.8
145°	1388.2	1371.4	1299.3	1165.7	1039.0	891.3	769.1	676.5	655.5
147.5°	1401.9	1381.8	1317.9	1198.1	1083.1	944.3	833.6	744.2	723.4
150°	1405.3	1384.4	1328.2	1215.5	1109.7	976.7	873.0	787.9	768.0
152.5°	1402.8	1386.8	1335.9	1230.2	1132.0	1008.2	909.0	829.9	811.7
155°	1404.3	1389.6	1342.1	1250.1	1160.0	1052.2	962.9	892.9	874.0
157.5°	1397.8	1388.2	1346.4	1265.3	1186.0	1091.5	1012.4	953.5	934.5
160°	1397.8	1383.2	1346.4	1274.1	1204.0	1117.0	1043.3	990.4	974.7
162.5°	1388.4	1375.4	1345.6	1280.4	1221.1	1140.9	1072.4	1023.1	1011.6
165°	1371.0	1360.6	1341.1	1288.6	1242.5	1173.4	1114.0	1069.9	1062.6
167.5°	1357.6	1343.1	1332.5	1288.3	1257.1	1196.8	1149.1	1112.6	1108.4
170°	1342.1	1332.7	1323.9	1285.9	1263.9	1213.7	1174.0	1137.4	1133.3
172.5°	1322.4	1317.2	1312.8	1284.3	1268.2	1228.0	1195.4	1162.2	1154.7
175°	1291.8	1296.0	1295.0	1280.9	1272.5	1246.3	1226.4	1202.7	1193.2
177.5°	1272.9	1271.3	1275.5	1272.9	1272.1	1256.2	1250.7	1234.5	1239.5
180°	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8

(END OF REPORT)