

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: P522402

Luminaire Tested: **SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522402
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

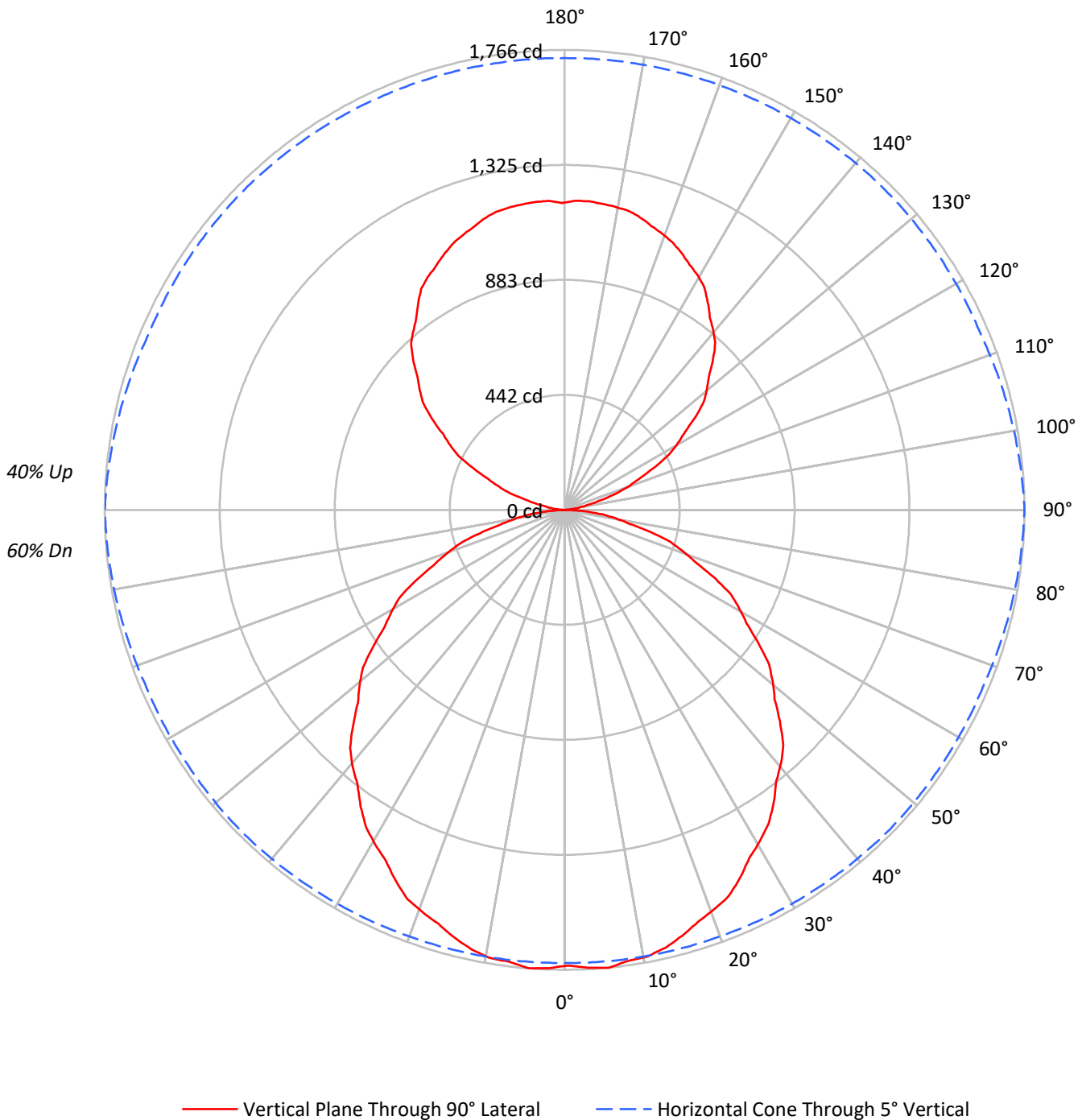
Lumens per Lamp: N/A
Luminaire Lumens: 8171.7 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 85.1
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	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°	28255	28255	28255
5°	28201	28622	28120
10°	28248	28593	27888
15°	28216	28349	27898
20°	27938	28144	27302
25°	27506	27880	26936
30°	27332	27537	26586
35°	26905	27260	25939
40°	26536	26978	25630
45°	26008	26464	24980
50°	25420	25998	24465
55°	24771	25363	23589
60°	23993	24897	22830
65°	22923	24260	21509
70°	21668	22943	20205
75°	19838	21210	18216
80°	17108	18410	15435
85°	12227	14264	10745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	2.0
10°-20°	473.0	5.8
20°-30°	711.7	8.7
30°-40°	850.1	10.4
40°-50°	873.5	10.7
50°-60°	785.2	9.6
60°-70°	596.9	7.3
70°-80°	340.1	4.2
80°-90°	88.5	1.1
90°-100°	31.0	0.4
100°-110°	134.1	1.6
110°-120°	382.3	4.7
120°-130°	581.4	7.1
130°-140°	628.8	7.7
140°-150°	600.8	7.4
150°-160°	494.1	6.0
160°-170°	322.9	4.0
170°-180°	111.7	1.4
0°-30°	1350.3	16.5
0°-40°	2200.4	26.9
0°-60°	3859.1	47.2
0°-90°	4884.7	59.8
90°-120°	547.4	6.7
90°-150°	2358.3	28.9
90°-180°	3287.0	40.2
0°-180°	8171.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1750	1750	1750	1750	1750	
5°	1740	1751	1766	1739	1735	166
15°	1688	1682	1696	1677	1669	475
25°	1544	1570	1565	1545	1512	714
35°	1365	1385	1383	1352	1316	853
45°	1139	1152	1159	1122	1094	876
55°	880	898	901	861	838	785
65°	600	614	635	593	563	593
75°	318	329	340	312	292	336
85°	66	79	77	69	58	81
90°	0	0	0	0	0	2
95°	5	7	21	50	47	6
105°	31	79	155	106	114	36
115°	282	750	387	184	208	388
125°	1124	989	619	304	261	988
135°	1244	1126	814	505	400	959
145°	1296	1213	970	718	612	812
155°	1311	1253	1083	899	816	606
165°	1280	1252	1160	1040	992	364
175°	1206	1209	1188	1145	1114	117
180°	1178	1178	1178	1178	1178	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0
2.5°	1747.6	1746.0	1753.2	1745.5	1760.4	1752.6	1747.6	1750.4	1734.8
5°	1740.0	1743.9	1751.0	1744.5	1766.0	1734.7	1739.0	1736.0	1735.0
7.5°	1734.2	1737.3	1735.4	1731.4	1748.8	1728.9	1727.0	1720.6	1718.6
10°	1723.0	1726.9	1721.0	1723.5	1744.0	1714.7	1715.0	1699.0	1701.0
12.5°	1702.2	1710.8	1709.0	1700.4	1724.8	1700.2	1705.4	1694.1	1689.8
15°	1688.0	1679.2	1682.0	1684.3	1696.0	1668.6	1677.0	1663.1	1669.0
17.5°	1658.0	1652.5	1654.4	1648.5	1662.0	1633.8	1638.4	1627.3	1623.4
20°	1626.0	1626.0	1628.0	1625.3	1638.0	1610.6	1612.0	1592.9	1589.0
22.5°	1602.0	1598.1	1608.8	1600.5	1611.6	1585.0	1584.8	1561.2	1569.8
25°	1544.0	1548.9	1570.0	1551.3	1565.0	1531.8	1545.0	1518.8	1512.0
27.5°	1499.6	1501.2	1512.8	1502.6	1512.2	1486.6	1498.4	1465.4	1455.6
30°	1466.0	1462.1	1484.0	1468.2	1477.0	1458.4	1460.0	1424.0	1426.0
32.5°	1419.6	1420.4	1444.8	1433.7	1437.8	1413.0	1417.6	1391.8	1381.2
35°	1365.0	1365.0	1385.0	1373.2	1383.0	1352.7	1352.0	1324.8	1316.0
37.5°	1301.4	1295.1	1319.4	1313.2	1320.8	1292.6	1282.8	1257.1	1252.0
40°	1259.0	1255.1	1273.0	1269.2	1280.0	1252.6	1238.0	1214.0	1216.0
42.5°	1204.6	1208.5	1223.4	1225.1	1231.2	1201.5	1192.4	1165.2	1167.2
45°	1139.0	1137.0	1152.0	1151.2	1159.0	1133.6	1122.0	1090.1	1094.0
47.5°	1057.6	1060.3	1076.4	1074.6	1085.4	1062.7	1044.2	1022.9	1018.0
50°	1012.0	1014.0	1026.0	1028.2	1035.0	1011.5	997.0	975.0	974.0
52.5°	956.8	954.8	972.4	976.9	982.2	965.0	946.6	921.3	918.0
55°	880.0	881.0	898.0	904.9	901.0	889.3	861.0	836.0	838.0
57.5°	795.8	803.0	811.0	823.0	823.8	804.8	786.4	762.1	758.2
60°	743.0	744.0	759.0	771.0	771.0	750.5	728.0	707.0	707.0
62.5°	683.0	687.9	700.6	711.9	717.4	700.8	672.8	651.0	649.4
65°	600.0	601.0	614.0	629.1	635.0	612.5	593.0	567.9	563.0
67.5°	514.2	518.3	528.8	540.8	547.6	523.4	502.8	483.2	484.8
70°	459.0	460.0	468.0	483.1	486.0	466.4	446.0	428.0	428.0
72.5°	399.0	405.5	412.0	425.4	427.6	410.4	394.0	376.7	372.8
75°	318.0	322.9	329.0	337.1	340.0	325.3	312.0	296.9	292.0
77.5°	237.6	242.3	252.6	253.8	253.2	243.0	232.6	221.3	216.4
80°	184.0	187.9	199.0	200.9	198.0	190.2	179.0	170.9	166.0
82.5°	133.6	140.6	148.6	150.5	146.8	142.9	133.4	123.7	119.6
85°	66.0	69.9	79.0	82.9	77.0	75.0	69.0	60.9	58.0
87.5°	12.8	15.9	24.0	29.4	22.4	26.3	20.0	14.4	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.6	1.6	1.6	3.2	4.8	17.3	19.2	16.8	16.8
95°	5.0	5.0	7.0	22.0	21.0	35.7	50.0	47.0	47.0
97.5°	10.2	11.2	16.0	65.0	49.0	47.6	67.6	75.2	76.6
100°	15.0	16.0	24.0	106.2	73.0	62.2	74.0	88.1	91.0
102.5°	20.6	22.4	38.4	167.1	102.6	73.1	84.4	96.9	100.6
105°	31.0	33.9	79.0	280.2	155.0	95.4	106.0	111.1	114.0
107.5°	46.0	57.9	212.8	393.7	220.0	125.9	137.2	136.5	139.0
110°	62.0	86.4	368.0	455.7	268.0	149.7	150.0	157.9	155.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	102.8	171.8	548.8	515.5	316.0	178.1	162.0	179.6	180.6
115°	282.0	484.4	750.0	599.2	387.0	228.6	184.0	201.2	208.0
117.5°	699.2	842.7	853.0	673.5	457.8	284.9	209.2	216.8	225.8
120°	948.0	977.3	901.0	719.1	505.0	325.1	230.0	227.2	237.0
122.5°	1045.6	1035.0	940.2	761.6	551.4	367.6	255.6	240.0	246.6
125°	1124.0	1096.6	989.0	820.4	619.0	431.3	304.0	261.0	261.0
127.5°	1170.8	1138.9	1033.8	872.6	680.0	495.6	362.2	295.2	286.0
130°	1198.0	1163.8	1061.0	908.7	720.0	537.2	403.0	324.7	310.0
132.5°	1218.8	1187.7	1086.6	937.0	759.2	577.9	443.8	361.3	337.2
135°	1244.0	1217.6	1126.0	980.2	814.0	639.0	505.0	424.4	400.0
137.5°	1260.2	1239.7	1161.4	1015.8	864.8	699.6	566.8	485.9	463.8
140°	1269.0	1252.4	1179.0	1036.8	896.0	738.6	610.0	527.5	507.0
142.5°	1277.8	1264.3	1191.8	1060.2	926.4	777.6	652.4	569.9	547.8
145°	1296.0	1280.4	1213.0	1088.3	970.0	832.1	718.0	631.6	612.0
147.5°	1308.8	1290.0	1230.4	1118.6	1011.2	881.5	778.2	694.8	675.4
150°	1312.0	1292.4	1240.0	1134.8	1036.0	911.8	815.0	735.6	717.0
152.5°	1309.6	1294.7	1247.2	1148.5	1056.8	941.2	848.6	774.8	757.8
155°	1311.0	1297.3	1253.0	1167.1	1083.0	982.3	899.0	833.6	816.0
157.5°	1305.0	1296.0	1257.0	1181.3	1107.2	1019.0	945.2	890.2	872.4
160°	1305.0	1291.3	1257.0	1189.5	1124.0	1042.8	974.0	924.7	910.0
162.5°	1296.2	1284.1	1256.2	1195.3	1140.0	1065.1	1001.2	955.2	944.4
165°	1280.0	1270.2	1252.0	1203.0	1160.0	1095.5	1040.0	998.8	992.0
167.5°	1267.4	1253.9	1244.0	1202.7	1173.6	1117.3	1072.8	1038.7	1034.8
170°	1253.0	1244.2	1236.0	1200.5	1180.0	1133.1	1096.0	1061.9	1058.0
172.5°	1234.6	1229.7	1225.6	1199.1	1184.0	1146.5	1116.0	1085.0	1078.0
175°	1206.0	1209.9	1209.0	1195.8	1188.0	1163.6	1145.0	1122.8	1114.0
177.5°	1188.4	1186.8	1190.8	1188.4	1187.6	1172.7	1167.6	1152.5	1157.2
180°	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0

(END OF REPORT)