

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: P522400

Luminaire Tested: **SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522400
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

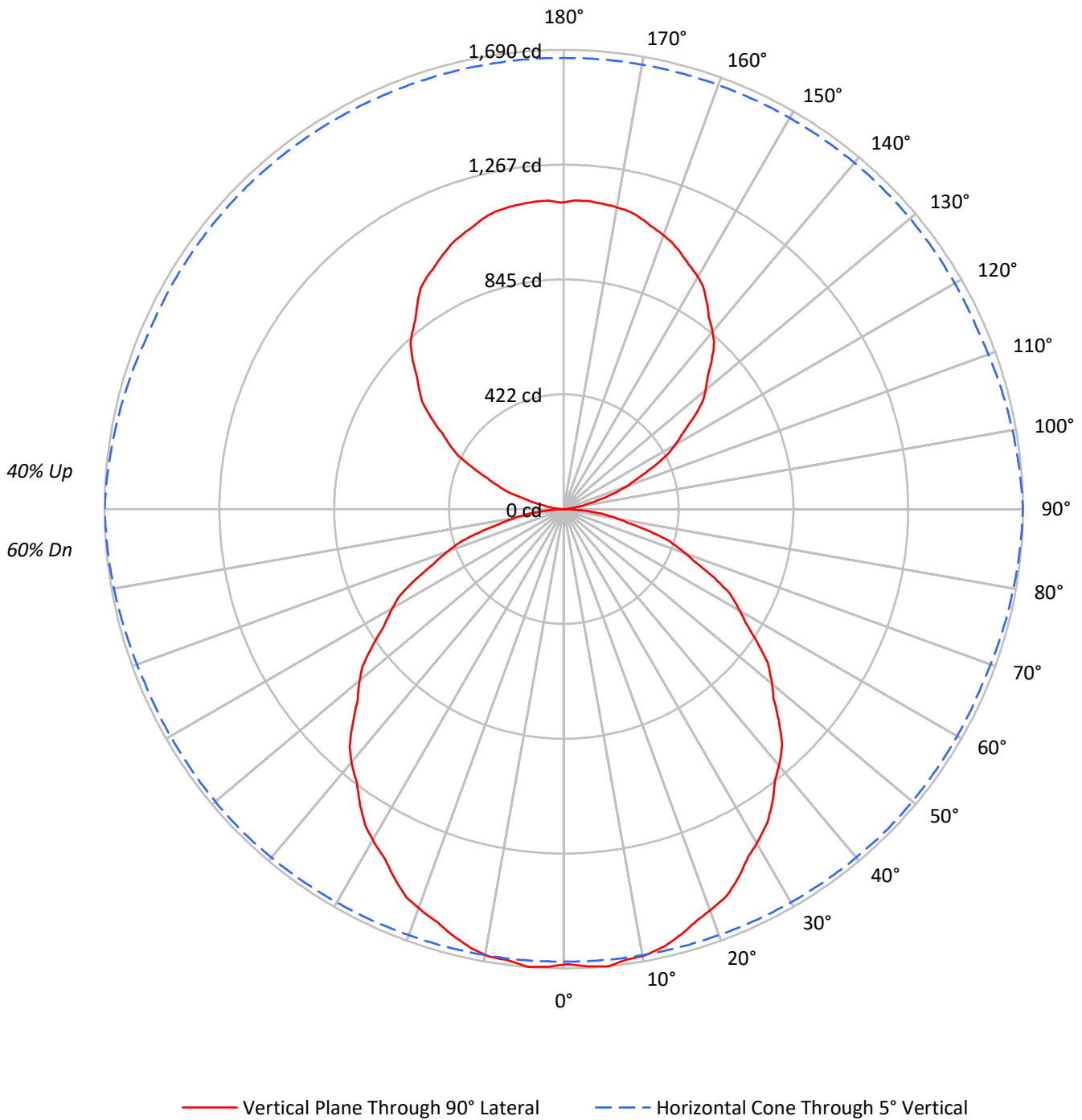
Lumens per Lamp: N/A
Luminaire Lumens: 7818.2 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 84.8
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										
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	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°	27033	27033	27033
5°	26981	27384	26903
10°	27027	27355	26681
15°	26995	27122	26691
20°	26730	26926	26122
25°	26316	26674	25771
30°	26150	26345	25435
35°	25740	26081	24817
40°	25387	25811	24521
45°	24882	25320	23900
50°	24320	24872	23408
55°	23699	24265	22567
60°	22956	23818	21842
65°	21929	23209	20577
70°	20729	21951	19331
75°	18977	20293	17430
80°	16365	17610	14765
85°	11689	13653	10282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	2.0
10°-20°	452.5	5.8
20°-30°	680.9	8.7
30°-40°	813.3	10.4
40°-50°	835.7	10.7
50°-60°	751.3	9.6
60°-70°	571.1	7.3
70°-80°	325.4	4.2
80°-90°	84.7	1.1
90°-100°	29.6	0.4
100°-110°	128.3	1.6
110°-120°	365.8	4.7
120°-130°	556.2	7.1
130°-140°	601.6	7.7
140°-150°	574.8	7.4
150°-160°	472.8	6.0
160°-170°	308.9	4.0
170°-180°	106.8	1.4
0°-30°	1291.9	16.5
0°-40°	2105.2	26.9
0°-60°	3692.2	47.2
0°-90°	4673.4	59.8
90°-120°	523.7	6.7
90°-150°	2256.3	28.9
90°-180°	3145.0	40.2
0°-180°	7818.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1674	1674	1674	1674	1674	
5°	1665	1675	1690	1664	1660	158
15°	1615	1609	1623	1604	1597	455
25°	1477	1502	1497	1478	1447	683
35°	1306	1325	1323	1294	1259	816
45°	1090	1102	1109	1074	1047	838
55°	842	859	862	824	802	751
65°	574	587	608	567	539	568
75°	304	315	325	298	279	322
85°	63	76	74	66	56	77
90°	0	0	0	0	0	2
95°	5	7	20	48	45	6
105°	30	76	148	101	109	34
115°	270	718	370	176	199	371
125°	1075	946	592	291	250	945
135°	1190	1077	779	483	383	917
145°	1240	1160	928	687	586	777
155°	1254	1199	1036	860	781	580
165°	1225	1198	1110	995	949	348
175°	1154	1157	1137	1096	1066	112
180°	1127	1127	1127	1127	1127	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3
2.5°	1672.0	1670.5	1677.4	1670.0	1684.2	1676.8	1672.0	1674.7	1659.7
5°	1664.7	1668.5	1675.2	1669.0	1689.6	1659.7	1663.8	1660.9	1659.9
7.5°	1659.2	1662.2	1660.3	1656.5	1673.1	1654.1	1652.3	1646.1	1644.2
10°	1648.5	1652.2	1646.5	1648.9	1668.5	1640.5	1640.8	1625.5	1627.4
12.5°	1628.6	1636.8	1635.1	1626.8	1650.2	1626.6	1631.6	1620.8	1616.7
15°	1615.0	1606.6	1609.2	1611.4	1622.6	1596.4	1604.4	1591.2	1596.8
17.5°	1586.3	1581.0	1582.8	1577.2	1590.1	1563.2	1567.5	1556.9	1553.2
20°	1555.7	1555.7	1557.6	1555.0	1567.1	1540.9	1542.3	1524.0	1520.3
22.5°	1532.7	1529.0	1539.2	1531.2	1541.9	1516.4	1516.2	1493.7	1501.9
25°	1477.2	1481.9	1502.1	1484.2	1497.3	1465.5	1478.2	1453.1	1446.6
27.5°	1434.7	1436.2	1447.4	1437.6	1446.8	1422.3	1433.6	1402.0	1392.6
30°	1402.6	1398.8	1419.8	1404.7	1413.1	1395.3	1396.8	1362.4	1364.3
32.5°	1358.2	1358.9	1382.3	1371.7	1375.6	1351.8	1356.3	1331.5	1321.4
35°	1305.9	1305.9	1325.1	1313.8	1323.2	1294.2	1293.5	1267.5	1259.1
37.5°	1245.1	1239.1	1262.3	1256.4	1263.7	1236.7	1227.3	1202.7	1197.8
40°	1204.5	1200.8	1217.9	1214.3	1224.6	1198.4	1184.4	1161.5	1163.4
42.5°	1152.5	1156.2	1170.5	1172.1	1177.9	1149.5	1140.8	1114.8	1116.7
45°	1089.7	1087.9	1102.2	1101.4	1108.9	1084.5	1073.5	1042.9	1046.7
47.5°	1011.8	1014.5	1029.8	1028.2	1038.4	1016.7	999.0	978.6	974.0
50°	968.2	970.1	981.6	983.7	990.2	967.8	953.9	932.8	931.9
52.5°	915.4	913.5	930.3	934.7	939.7	923.2	905.6	881.5	878.3
55°	841.9	842.9	859.2	865.8	862.0	850.8	823.8	799.9	801.7
57.5°	761.4	768.3	775.9	787.4	788.2	770.0	752.4	729.1	725.4
60°	710.9	711.8	726.2	737.6	737.6	718.0	696.5	676.4	676.4
62.5°	653.5	658.1	670.3	681.1	686.4	670.5	643.7	622.8	621.3
65°	574.0	575.0	587.4	601.9	607.5	586.0	567.3	543.3	538.6
67.5°	492.0	495.9	505.9	517.4	523.9	500.7	481.0	462.3	463.8
70°	439.1	440.1	447.8	462.2	465.0	446.3	426.7	409.5	409.5
72.5°	381.7	387.9	394.2	407.0	409.1	392.6	377.0	360.4	356.7
75°	304.2	308.9	314.8	322.5	325.3	311.3	298.5	284.0	279.4
77.5°	227.3	231.8	241.7	242.8	242.2	232.5	222.5	211.7	207.0
80°	176.0	179.8	190.4	192.2	189.4	182.0	171.3	163.5	158.8
82.5°	127.8	134.6	142.2	144.0	140.4	136.7	127.6	118.4	114.4
85°	63.1	66.9	75.6	79.3	73.7	71.8	66.0	58.3	55.5
87.5°	12.2	15.2	23.0	28.2	21.4	25.2	19.1	13.7	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.5	1.5	1.5	3.1	4.6	16.6	18.4	16.1	16.1
95°	4.8	4.8	6.7	21.0	20.1	34.1	47.8	45.0	45.0
97.5°	9.8	10.7	15.3	62.2	46.9	45.6	64.7	72.0	73.3
100°	14.4	15.3	23.0	101.6	69.8	59.6	70.8	84.3	87.1
102.5°	19.7	21.4	36.7	159.9	98.2	69.9	80.7	92.7	96.2
105°	29.7	32.5	75.6	268.0	148.3	91.2	101.4	106.3	109.1
107.5°	44.0	55.4	203.6	376.6	210.5	120.5	131.3	130.6	133.0
110°	59.3	82.7	352.1	436.0	256.4	143.2	143.5	151.1	148.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	98.4	164.4	525.1	493.2	302.3	170.4	155.0	171.9	172.8
115°	269.8	463.4	717.6	573.3	370.3	218.7	176.0	192.5	199.0
117.5°	669.0	806.3	816.1	644.4	438.0	272.6	200.1	207.4	216.0
120°	907.0	935.1	862.0	688.0	483.2	311.0	220.0	217.4	226.7
122.5°	1000.4	990.3	899.5	728.7	527.5	351.7	244.5	229.6	235.9
125°	1075.4	1049.2	946.2	784.9	592.2	412.6	290.8	249.7	249.7
127.5°	1120.1	1089.7	989.1	834.9	650.6	474.2	346.5	282.4	273.6
130°	1146.2	1113.4	1015.1	869.4	688.9	513.9	385.6	310.6	296.6
132.5°	1166.1	1136.3	1039.6	896.4	726.4	552.9	424.6	345.6	322.6
135°	1190.2	1164.9	1077.3	937.8	778.8	611.3	483.2	406.1	382.7
137.5°	1205.7	1186.0	1111.2	971.8	827.4	669.3	542.3	464.9	443.7
140°	1214.1	1198.2	1128.0	991.9	857.2	706.6	583.6	504.7	485.1
142.5°	1222.5	1209.6	1140.2	1014.3	886.3	743.9	624.2	545.2	524.1
145°	1239.9	1225.0	1160.5	1041.2	928.0	796.1	686.9	604.2	585.5
147.5°	1252.2	1234.2	1177.2	1070.2	967.5	843.4	744.5	664.7	646.2
150°	1255.2	1236.5	1186.4	1085.7	991.2	872.4	779.7	703.8	686.0
152.5°	1252.9	1238.7	1193.2	1098.8	1011.1	900.5	811.9	741.3	725.0
155°	1254.3	1241.2	1198.8	1116.6	1036.1	939.8	860.1	797.5	780.7
157.5°	1248.5	1239.9	1202.6	1130.2	1059.3	974.9	904.3	851.7	834.7
160°	1248.5	1235.4	1202.6	1138.0	1075.4	997.7	931.9	884.7	870.6
162.5°	1240.1	1228.5	1201.9	1143.6	1090.7	1019.0	957.9	913.8	903.5
165°	1224.6	1215.3	1197.8	1151.0	1109.8	1048.1	995.0	955.6	949.1
167.5°	1212.6	1199.7	1190.2	1150.7	1122.8	1068.9	1026.4	993.8	990.0
170°	1198.8	1190.4	1182.5	1148.6	1128.9	1084.0	1048.6	1016.0	1012.2
172.5°	1181.2	1176.5	1172.6	1147.2	1132.8	1096.9	1067.7	1038.1	1031.4
175°	1153.8	1157.6	1156.7	1144.1	1136.6	1113.2	1095.5	1074.2	1065.8
177.5°	1137.0	1135.5	1139.3	1137.0	1136.2	1122.0	1117.1	1102.6	1107.1
180°	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0

(END OF REPORT)