

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: P522558

Luminaire Tested: **SQW-F-075U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522558
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-075U-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

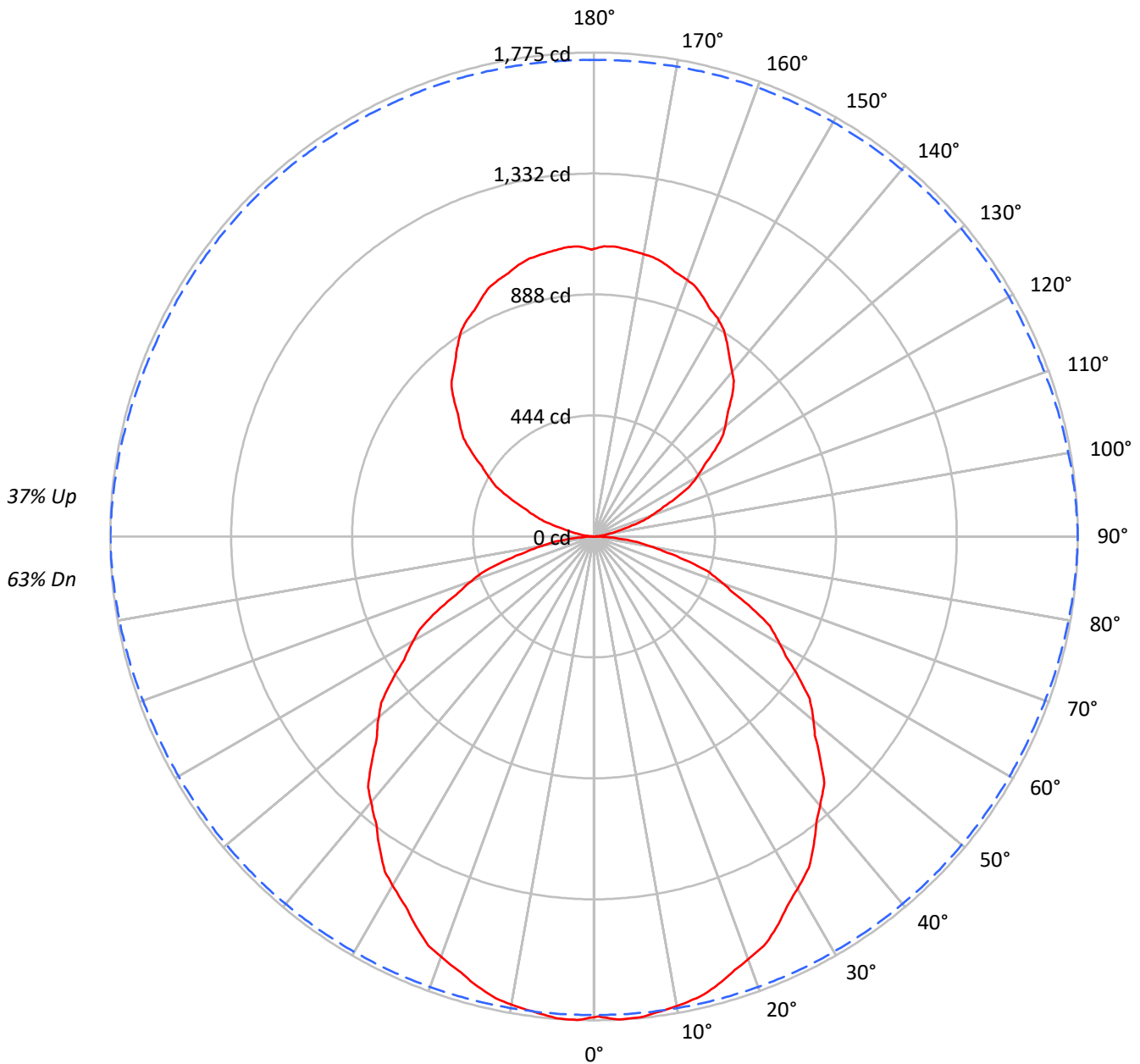
Lumens per Lamp: N/A
Luminaire Lumens: 7846.3 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 84.2
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	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	60	58	57	52
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	50	48	44
3	83	73	66	60	78	69	62	57	61	56	51	53	49	46	46	43	40	37
4	76	65	57	50	71	61	54	48	54	48	43	47	43	39	41	38	35	31
5	70	58	49	43	65	54	47	41	48	42	37	42	38	34	37	33	30	27
6	64	52	43	37	60	49	41	36	43	37	33	38	33	30	34	30	26	24
7	60	47	39	33	56	44	37	31	39	33	29	35	30	26	31	27	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	28	23	45	34	27	22	30	25	21	27	22	19	24	20	17	15

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	2.1
10°-20°	475.9	6.1
20°-30°	715.7	9.1
30°-40°	854.9	10.9
40°-50°	879.3	11.2
50°-60°	791.5	10.1
60°-70°	602.9	7.7
70°-80°	343.7	4.4
80°-90°	89.5	1.1
90°-100°	26.6	0.3
100°-110°	117.9	1.5
110°-120°	338.9	4.3
120°-130°	516.3	6.6
130°-140°	560.4	7.1
140°-150°	535.9	6.8
150°-160°	441.5	5.6
160°-170°	288.9	3.7
170°-180°	100.0	1.3
0°-30°	1358.1	17.3
0°-40°	2213.0	28.2
0°-60°	3883.8	49.5
0°-90°	4919.8	62.7
90°-120°	483.5	6.2
90°-150°	2096.1	26.7
90°-180°	2926.0	37.3
0°-180°	7846.3	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	2
95°	4	6	19	41	40	5
105°	26	72	135	93	99	31
115°	254	668	342	160	180	351
125°	1010	879	545	270	230	886
135°	1113	1008	722	447	356	859
145°	1165	1084	862	637	544	730
155°	1176	1128	964	799	728	545
165°	1152	1122	1034	929	884	327
175°	1084	1087	1066	1018	994	105
180°	1053	1053	1053	1053	1053	



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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°	0.8	0.8	1.6	2.4	3.9	14.7	16.5	14.9	14.1
95°	3.9	3.9	5.9	18.6	18.6	30.2	41.2	40.2	40.2
97.5°	8.8	9.8	13.7	56.8	42.4	41.2	58.9	64.8	65.3
100°	12.8	13.7	21.6	92.5	62.8	53.2	62.8	76.6	79.5
102.5°	17.5	19.2	34.1	146.1	88.7	63.8	73.8	83.7	86.5
105°	26.5	29.4	71.6	244.8	135.4	84.6	93.2	98.1	99.1
107.5°	39.8	50.6	196.0	344.3	192.1	111.9	117.0	120.3	121.5
110°	54.0	77.0	340.5	404.3	234.5	132.8	129.5	138.3	136.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	90.9	158.4	499.8	453.6	276.9	157.5	141.3	155.6	156.8
115°	254.1	436.4	668.2	523.7	341.5	200.4	159.9	173.8	179.6
117.5°	637.8	758.9	756.9	588.6	403.5	250.9	182.3	188.9	195.5
120°	857.6	875.8	801.6	632.5	443.5	287.1	201.1	198.3	204.1
122.5°	939.2	924.4	835.4	671.0	484.3	324.9	225.5	208.5	213.5
125°	1009.7	980.9	879.2	725.9	544.6	380.5	269.8	230.6	229.6
127.5°	1048.7	1018.6	921.9	773.6	599.9	438.3	320.3	261.8	253.0
130°	1067.6	1039.7	951.8	802.8	636.8	477.5	357.2	289.2	275.7
132.5°	1090.3	1060.2	973.0	832.7	672.1	514.4	394.1	322.1	306.3
135°	1112.7	1084.9	1007.7	871.8	722.2	568.7	447.4	376.3	356.2
137.5°	1132.7	1107.2	1039.5	902.6	767.3	622.1	504.0	434.7	410.1
140°	1146.1	1118.2	1052.8	926.2	794.8	655.7	541.6	472.5	453.3
142.5°	1150.8	1133.7	1067.0	946.1	825.4	687.8	579.3	507.9	490.2
145°	1164.7	1153.2	1084.2	969.9	861.5	735.8	636.8	562.8	543.6
147.5°	1173.7	1156.5	1100.1	995.6	896.8	778.8	689.0	618.0	600.1
150°	1174.5	1161.1	1112.7	1011.5	920.4	810.0	721.2	654.1	637.8
152.5°	1180.8	1164.3	1119.0	1025.0	937.6	836.5	753.4	691.0	673.1
155°	1176.5	1165.0	1128.4	1042.2	964.5	870.5	798.7	743.4	728.1
157.5°	1176.5	1162.3	1129.6	1055.7	990.4	907.9	841.1	790.0	778.5
160°	1168.6	1162.9	1130.4	1065.2	1003.8	928.9	869.4	822.9	807.5
162.5°	1165.5	1155.9	1131.9	1071.6	1015.6	946.1	893.7	849.7	838.2
165°	1151.9	1143.3	1122.5	1074.5	1034.2	976.6	929.2	889.8	884.1
167.5°	1136.4	1129.7	1116.0	1079.2	1046.6	999.5	959.6	927.9	920.0
170°	1125.4	1114.9	1109.8	1081.6	1052.8	1013.5	979.2	950.6	942.0
172.5°	1106.6	1105.3	1101.1	1075.6	1058.3	1025.9	997.3	971.1	965.5
175°	1084.2	1084.2	1087.2	1071.4	1065.6	1038.7	1018.5	1002.6	994.0
177.5°	1058.3	1059.1	1065.4	1064.6	1065.4	1050.0	1044.2	1029.3	1027.7
180°	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8

(END OF REPORT)