

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: P522559

Luminaire Tested: **SQW-F-075U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522559
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

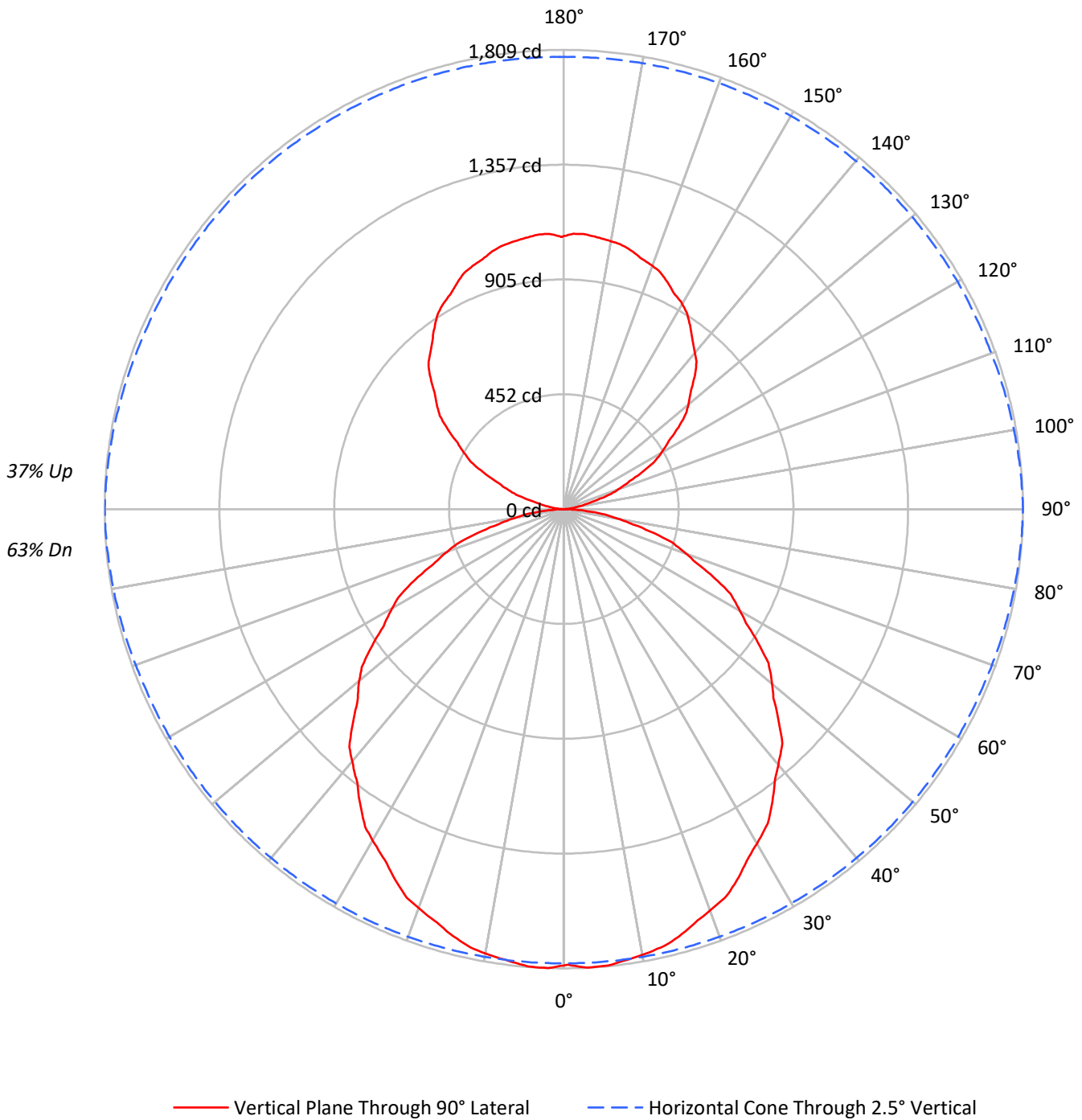
Lumens per Lamp: N/A
Luminaire Lumens: 7996.6 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 84.3
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	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°	28982	28982	28982
5°	29060	29287	28801
10°	29019	29199	28609
15°	28951	29068	28433
20°	28711	28849	28075
25°	28379	28575	27578
30°	28021	28226	27108
35°	27693	27910	26530
40°	27210	27526	26030
45°	26715	27104	25345
50°	26349	26676	24767
55°	25700	26123	23927
60°	24961	25543	22992
65°	24031	24909	21815
70°	22801	23604	20535
75°	21210	21959	18528
80°	18038	19061	15435
85°	13709	14820	10559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	2.1
10°-20°	485.0	6.1
20°-30°	729.4	9.1
30°-40°	871.3	10.9
40°-50°	896.1	11.2
50°-60°	806.7	10.1
60°-70°	614.4	7.7
70°-80°	350.2	4.4
80°-90°	91.2	1.1
90°-100°	27.1	0.3
100°-110°	120.2	1.5
110°-120°	345.4	4.3
120°-130°	526.2	6.6
130°-140°	571.1	7.1
140°-150°	546.2	6.8
150°-160°	449.9	5.6
160°-170°	294.4	3.7
170°-180°	101.9	1.3
0°-30°	1384.1	17.3
0°-40°	2255.4	28.2
0°-60°	3958.2	49.5
0°-90°	5014.1	62.7
90°-120°	492.7	6.2
90°-150°	2136.2	26.7
90°-180°	2983.0	37.3
0°-180°	7996.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1795	1795	1795	1795	1795	
5°	1793	1792	1807	1781	1777	170
15°	1732	1732	1739	1710	1701	488
25°	1593	1607	1604	1574	1548	734
35°	1405	1421	1416	1382	1346	877
45°	1170	1185	1187	1144	1110	904
55°	913	924	928	881	850	816
65°	629	641	652	602	571	622
75°	340	347	352	313	297	358
85°	74	86	80	68	57	88
90°	0	0	0	0	0	3
95°	4	6	19	42	41	5
105°	27	73	138	95	101	31
115°	259	681	348	163	183	358
125°	1029	896	555	275	234	903
135°	1134	1027	736	456	363	876
145°	1187	1105	878	649	554	744
155°	1199	1150	983	814	742	555
165°	1174	1144	1054	947	901	333
175°	1105	1108	1086	1038	1013	107
180°	1073	1073	1073	1073	1073	

TEST NUMBER: P522559

CATALOG NUMBER: SQW-F-075U-125D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0
2.5°	1789.4	1793.3	1795.0	1793.8	1809.4	1791.4	1791.8	1786.9	1781.4
5°	1793.0	1791.0	1792.0	1788.4	1807.0	1783.5	1781.0	1776.0	1777.0
7.5°	1781.2	1779.8	1780.6	1775.4	1793.0	1769.3	1767.4	1762.2	1761.8
10°	1770.0	1767.1	1771.0	1763.4	1781.0	1756.6	1753.0	1747.0	1745.0
12.5°	1757.2	1753.5	1758.2	1749.0	1765.8	1739.0	1738.6	1730.2	1729.0
15°	1732.0	1732.0	1732.0	1724.3	1739.0	1711.6	1710.0	1701.0	1701.0
17.5°	1696.6	1697.4	1702.6	1692.5	1704.6	1678.2	1674.8	1664.2	1662.8
20°	1671.0	1671.0	1681.0	1665.3	1679.0	1652.6	1650.0	1633.0	1634.0
22.5°	1640.6	1640.6	1653.0	1638.9	1651.0	1624.6	1621.2	1601.0	1602.0
25°	1593.0	1591.0	1607.0	1593.2	1604.0	1577.6	1574.0	1550.0	1548.0
27.5°	1539.8	1541.6	1557.0	1542.6	1552.4	1523.7	1524.6	1495.9	1492.4
30°	1503.0	1504.0	1521.0	1508.1	1514.0	1487.6	1487.0	1456.0	1454.0
32.5°	1464.6	1464.8	1482.6	1467.4	1476.4	1449.2	1445.4	1415.9	1413.2
35°	1405.0	1404.0	1421.0	1410.1	1416.0	1387.6	1382.0	1354.8	1346.0
37.5°	1337.4	1338.2	1354.2	1347.9	1351.6	1324.4	1313.4	1286.3	1283.0
40°	1291.0	1291.0	1307.0	1303.1	1306.0	1279.6	1267.0	1239.9	1235.0
42.5°	1243.0	1244.6	1259.0	1256.0	1262.8	1234.1	1218.2	1192.7	1186.2
45°	1170.0	1172.9	1185.0	1182.1	1187.0	1162.6	1144.0	1116.8	1110.0
47.5°	1101.0	1098.1	1111.6	1109.8	1111.6	1087.7	1069.2	1041.1	1035.6
50°	1049.0	1046.1	1058.0	1061.0	1062.0	1036.6	1018.0	989.9	986.0
52.5°	995.4	992.5	1005.2	1009.8	1010.0	986.1	964.4	937.9	934.0
55°	913.0	908.1	924.0	930.0	928.0	907.5	881.0	857.8	850.0
57.5°	829.8	829.2	842.8	848.2	847.0	826.7	800.4	776.8	768.8
60°	773.0	770.1	786.0	793.0	791.0	771.4	742.0	720.8	712.0
62.5°	716.2	716.4	730.0	736.2	738.2	714.7	687.6	663.3	656.8
65°	629.0	625.1	641.0	647.1	652.0	627.6	602.0	577.8	571.0
67.5°	541.4	538.5	549.4	556.5	560.8	538.9	514.0	493.9	491.0
70°	483.0	480.1	491.0	498.0	500.0	480.4	454.0	437.9	435.0
72.5°	425.4	422.5	431.0	438.1	442.4	421.3	396.4	381.0	374.2
75°	340.0	338.0	347.0	347.1	352.0	331.5	313.0	298.0	297.0
77.5°	254.8	256.2	262.6	263.0	264.2	248.9	234.4	217.4	216.4
80°	194.0	200.8	205.0	207.0	205.0	195.2	180.0	167.0	166.0
82.5°	143.6	148.9	157.0	155.7	152.2	144.8	132.8	120.6	119.6
85°	74.0	78.9	86.0	85.9	80.0	76.1	68.0	58.0	57.0
87.5°	17.6	20.7	28.0	30.3	24.8	25.6	17.6	10.4	10.4
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	4.0	15.0	16.8	15.2	14.4
95°	4.0	4.0	6.0	19.0	19.0	30.7	42.0	41.0	41.0
97.5°	9.0	10.0	14.0	57.9	43.2	42.0	60.0	66.0	66.6
100°	13.0	14.0	22.0	94.3	64.0	54.2	64.0	78.1	81.0
102.5°	17.8	19.6	34.8	148.9	90.4	65.0	75.2	85.3	88.2
105°	27.0	29.9	73.0	249.5	138.0	86.2	95.0	100.0	101.0
107.5°	40.6	51.6	199.8	350.9	195.8	114.1	119.2	122.6	123.8
110°	55.0	78.5	347.0	412.1	239.0	135.4	132.0	141.0	139.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	92.6	161.4	509.4	462.3	282.2	160.6	144.0	158.6	159.8
115°	259.0	444.8	681.0	533.8	348.0	204.3	163.0	177.1	183.0
117.5°	650.0	773.4	771.4	599.9	411.2	255.7	185.8	192.6	199.2
120°	874.0	892.6	817.0	644.6	452.0	292.6	205.0	202.1	208.0
122.5°	957.2	942.1	851.4	683.9	493.6	331.1	229.8	212.5	217.6
125°	1029.0	999.7	896.0	739.8	555.0	387.8	275.0	235.0	234.0
127.5°	1068.8	1038.1	939.6	788.4	611.4	446.7	326.4	266.8	257.8
130°	1088.0	1059.6	970.0	818.2	649.0	486.7	364.0	294.7	281.0
132.5°	1111.2	1080.5	991.6	848.7	685.0	524.3	401.6	328.2	312.2
135°	1134.0	1105.6	1027.0	888.5	736.0	579.6	456.0	383.5	363.0
137.5°	1154.4	1128.4	1059.4	919.9	782.0	634.0	513.6	443.0	418.0
140°	1168.0	1139.6	1073.0	944.0	810.0	668.2	552.0	481.6	462.0
142.5°	1172.8	1155.4	1087.4	964.2	841.2	701.0	590.4	517.6	499.6
145°	1187.0	1175.3	1105.0	988.5	878.0	749.9	649.0	573.6	554.0
147.5°	1196.2	1178.6	1121.2	1014.7	914.0	793.7	702.2	629.8	611.6
150°	1197.0	1183.3	1134.0	1030.9	938.0	825.6	735.0	666.6	650.0
152.5°	1203.4	1186.6	1140.4	1044.6	955.6	852.5	767.8	704.2	686.0
155°	1199.0	1187.3	1150.0	1062.2	983.0	887.2	814.0	757.6	742.0
157.5°	1199.0	1184.5	1151.2	1075.9	1009.4	925.3	857.2	805.1	793.4
160°	1191.0	1185.1	1152.0	1085.6	1023.0	946.7	886.0	838.6	823.0
162.5°	1187.8	1178.0	1153.6	1092.1	1035.0	964.2	910.8	865.9	854.2
165°	1174.0	1165.2	1144.0	1095.1	1054.0	995.3	947.0	906.9	901.0
167.5°	1158.2	1151.4	1137.4	1099.8	1066.6	1018.7	978.0	945.6	937.6
170°	1147.0	1136.2	1131.0	1102.3	1073.0	1032.9	998.0	968.8	960.0
172.5°	1127.8	1126.4	1122.2	1096.2	1078.6	1045.6	1016.4	989.7	984.0
175°	1105.0	1105.0	1108.0	1091.9	1086.0	1058.6	1038.0	1021.8	1013.0
177.5°	1078.6	1079.4	1085.8	1085.0	1085.8	1070.2	1064.2	1049.0	1047.4
180°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0

(END OF REPORT)