

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: P522562

Luminaire Tested: **SQW-F-075U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522562
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

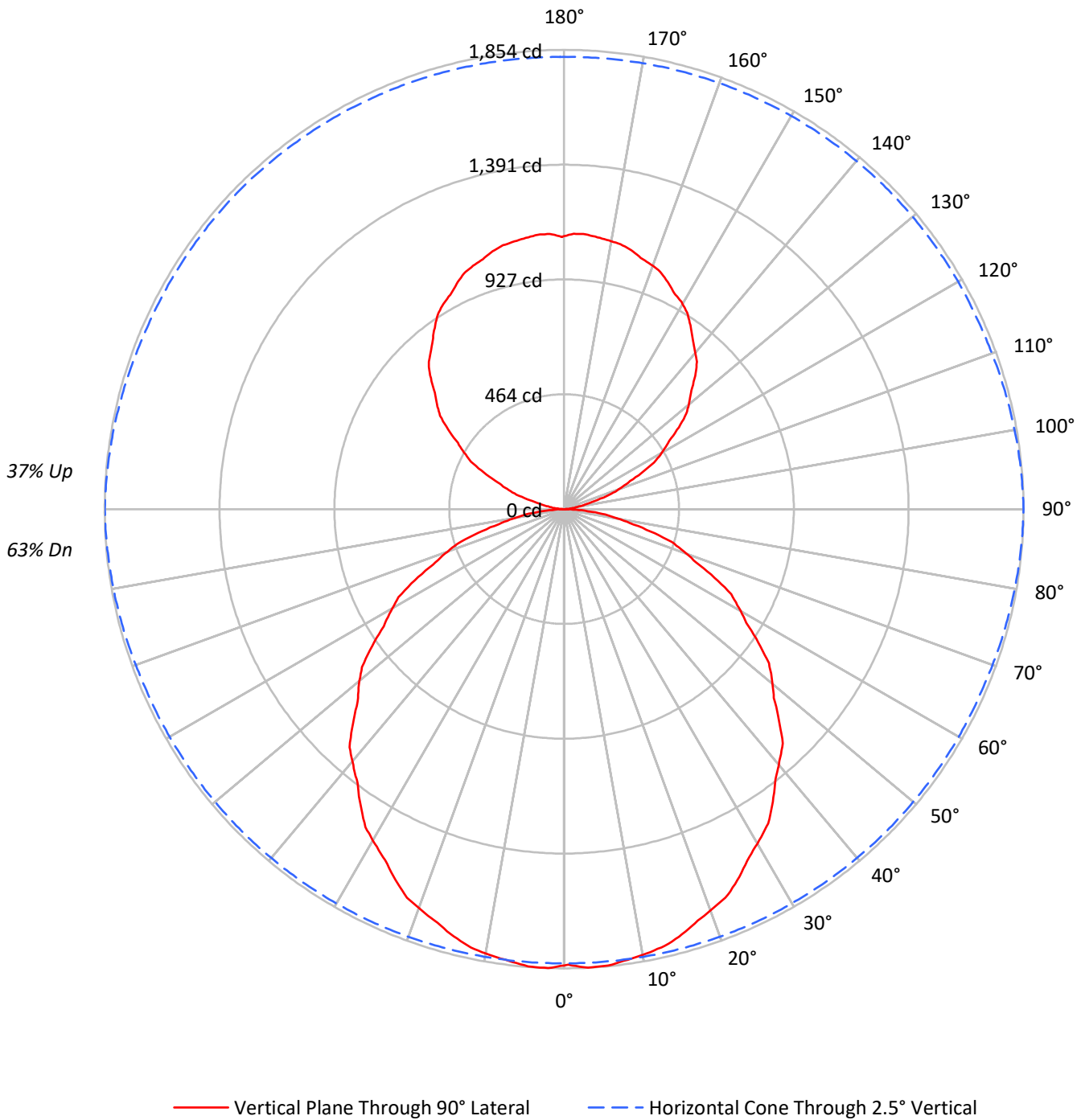
Lumens per Lamp: N/A
Luminaire Lumens: 8194.2 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 84.1
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	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°	29699	29699	29699
5°	29778	30011	29512
10°	29737	29921	29316
15°	29666	29787	29137
20°	29421	29562	28770
25°	29081	29282	28260
30°	28715	28924	27777
35°	28377	28600	27187
40°	27883	28207	26673
45°	27375	27773	25971
50°	27000	27336	25380
55°	26337	26767	24518
60°	25578	26176	23560
65°	24627	25524	22353
70°	23363	24189	21045
75°	21734	22501	18983
80°	18484	19535	15816
85°	14042	15191	10819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	2.1
10°-20°	497.0	6.1
20°-30°	747.4	9.1
30°-40°	892.8	10.9
40°-50°	918.2	11.2
50°-60°	826.6	10.1
60°-70°	629.6	7.7
70°-80°	358.9	4.4
80°-90°	93.5	1.1
90°-100°	27.8	0.3
100°-110°	123.2	1.5
110°-120°	354.0	4.3
120°-130°	539.2	6.6
130°-140°	585.3	7.1
140°-150°	559.7	6.8
150°-160°	461.1	5.6
160°-170°	301.7	3.7
170°-180°	104.4	1.3
0°-30°	1418.3	17.3
0°-40°	2311.2	28.2
0°-60°	4056.0	49.5
0°-90°	5138.0	62.7
90°-120°	504.9	6.2
90°-150°	2189.0	26.7
90°-180°	3056.0	37.3
0°-180°	8194.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1839	1839	1839	1839	1839	
5°	1837	1836	1852	1825	1821	174
15°	1775	1775	1782	1752	1743	500
25°	1632	1647	1644	1613	1586	752
35°	1440	1456	1451	1416	1379	899
45°	1199	1214	1216	1172	1137	926
55°	936	947	951	903	871	836
65°	645	657	668	617	585	637
75°	348	356	361	321	304	367
85°	76	88	82	70	58	90
90°	0	0	0	0	0	3
95°	4	6	20	43	42	6
105°	28	75	141	97	104	32
115°	265	698	357	167	188	367
125°	1054	918	569	282	240	926
135°	1162	1052	754	467	372	897
145°	1216	1132	900	665	568	762
155°	1229	1178	1007	834	760	569
165°	1203	1172	1080	970	923	341
175°	1132	1135	1113	1064	1038	109
180°	1100	1100	1100	1100	1100	



TEST NUMBER: P522562

CATALOG NUMBER: SQW-F-075U-125D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4
2.5°	1833.6	1837.6	1839.4	1838.1	1854.1	1835.7	1836.1	1831.1	1825.4
5°	1837.3	1835.3	1836.3	1832.6	1851.7	1827.6	1825.0	1819.9	1820.9
7.5°	1825.2	1823.8	1824.6	1819.3	1837.3	1813.1	1811.1	1805.8	1805.4
10°	1813.8	1810.8	1814.8	1807.0	1825.0	1800.0	1796.3	1790.1	1788.1
12.5°	1800.6	1796.8	1801.7	1792.2	1809.5	1782.0	1781.6	1772.9	1771.7
15°	1774.8	1774.8	1774.8	1767.0	1782.0	1753.9	1752.3	1743.1	1743.1
17.5°	1738.5	1739.3	1744.7	1734.3	1746.7	1719.7	1716.2	1705.3	1703.9
20°	1712.3	1712.3	1722.6	1706.5	1720.5	1693.5	1690.8	1673.4	1674.4
22.5°	1681.2	1681.2	1693.9	1679.4	1691.8	1664.8	1661.3	1640.6	1641.6
25°	1632.4	1630.4	1646.7	1632.6	1643.7	1616.6	1612.9	1588.3	1586.3
27.5°	1577.9	1579.7	1595.5	1580.8	1590.8	1561.3	1562.3	1532.9	1529.3
30°	1540.2	1541.2	1558.6	1545.4	1551.4	1524.4	1523.8	1492.0	1489.9
32.5°	1500.8	1501.0	1519.3	1503.7	1512.9	1485.0	1481.1	1450.9	1448.1
35°	1439.7	1438.7	1456.1	1445.0	1451.0	1422.0	1416.2	1388.3	1379.3
37.5°	1370.5	1371.3	1387.7	1381.2	1385.0	1357.2	1345.9	1318.1	1314.7
40°	1322.9	1322.9	1339.3	1335.3	1338.3	1311.2	1298.3	1270.5	1265.5
42.5°	1273.7	1275.3	1290.1	1287.0	1294.0	1264.6	1248.3	1222.1	1215.5
45°	1198.9	1201.9	1214.3	1211.3	1216.3	1191.3	1172.3	1144.5	1137.4
47.5°	1128.2	1125.2	1139.1	1137.3	1139.1	1114.6	1095.6	1066.8	1061.2
50°	1074.9	1071.9	1084.2	1087.3	1088.3	1062.2	1043.2	1014.4	1010.4
52.5°	1020.0	1017.0	1030.1	1034.8	1035.0	1010.5	988.2	961.1	957.1
55°	935.6	930.6	946.8	952.9	950.9	929.9	902.8	879.0	871.0
57.5°	850.3	849.7	863.6	869.1	867.9	847.1	820.2	796.0	787.8
60°	792.1	789.1	805.4	812.6	810.6	790.5	760.3	738.6	729.6
62.5°	733.9	734.1	748.0	754.4	756.5	732.4	704.6	679.7	673.0
65°	644.6	640.5	656.8	663.1	668.1	643.1	616.9	592.1	585.1
67.5°	554.8	551.8	563.0	570.3	574.7	552.2	526.7	506.1	503.1
70°	494.9	491.9	503.1	510.4	512.4	492.3	465.2	448.8	445.8
72.5°	435.9	432.9	441.7	448.9	453.3	431.7	406.2	390.5	383.5
75°	348.4	346.4	355.6	355.7	360.7	339.7	320.7	305.3	304.3
77.5°	261.1	262.5	269.1	269.5	270.7	255.1	240.2	222.8	221.8
80°	198.8	205.8	210.1	212.1	210.1	200.0	184.5	171.1	170.1
82.5°	147.2	152.6	160.9	159.6	156.0	148.3	136.1	123.6	122.6
85°	75.8	80.8	88.1	88.0	82.0	78.0	69.7	59.4	58.4
87.5°	18.0	21.2	28.7	31.0	25.4	26.2	18.0	10.7	10.7
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	2.5	4.1	15.3	17.2	15.6	14.8
95°	4.1	4.1	6.1	19.5	19.5	31.5	43.0	42.0	42.0
97.5°	9.2	10.2	14.3	59.3	44.3	43.1	61.5	67.6	68.2
100°	13.3	14.3	22.5	96.6	65.6	55.6	65.6	80.0	83.0
102.5°	18.2	20.0	35.7	152.6	92.6	66.6	77.1	87.4	90.4
105°	27.7	30.7	74.8	255.6	141.4	88.3	97.3	102.5	103.5
107.5°	41.6	52.8	204.7	359.6	200.6	116.9	122.1	125.7	126.9
110°	56.4	80.4	355.6	422.3	244.9	138.7	135.3	144.4	142.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	94.9	165.4	522.0	473.7	289.2	164.5	147.6	162.5	163.8
115°	265.4	455.8	697.8	547.0	356.6	209.3	167.0	181.5	187.5
117.5°	666.1	792.5	790.5	614.7	421.4	262.1	190.4	197.3	204.1
120°	895.6	914.6	837.2	660.6	463.2	299.9	210.1	207.1	213.1
122.5°	980.9	965.4	872.4	700.8	505.8	339.3	235.5	217.8	223.0
125°	1054.4	1024.4	918.2	758.1	568.7	397.4	281.8	240.8	239.8
127.5°	1095.2	1063.8	962.8	807.9	626.5	457.8	334.5	273.4	264.2
130°	1114.9	1085.8	994.0	838.4	665.0	498.7	373.0	302.0	287.9
132.5°	1138.7	1107.2	1016.1	869.7	701.9	537.2	411.5	336.4	319.9
135°	1162.0	1133.0	1052.4	910.5	754.2	593.9	467.3	393.0	372.0
137.5°	1182.9	1156.3	1085.6	942.6	801.3	649.6	526.3	454.0	428.3
140°	1196.9	1167.8	1099.5	967.3	830.0	684.7	565.6	493.5	473.4
142.5°	1201.8	1184.0	1114.3	988.0	862.0	718.3	605.0	530.4	512.0
145°	1216.3	1204.3	1132.3	1012.9	899.7	768.5	665.0	587.7	567.7
147.5°	1225.8	1207.7	1148.9	1039.8	936.6	813.4	719.6	645.4	626.7
150°	1226.6	1212.6	1162.0	1056.4	961.2	846.0	753.2	683.1	666.1
152.5°	1233.2	1215.9	1168.6	1070.4	979.2	873.6	786.8	721.6	703.0
155°	1228.6	1216.6	1178.4	1088.5	1007.3	909.1	834.1	776.4	760.3
157.5°	1228.6	1213.8	1179.7	1102.5	1034.4	948.2	878.4	825.0	813.0
160°	1220.4	1214.4	1180.5	1112.4	1048.3	970.1	907.9	859.4	843.3
162.5°	1217.2	1207.1	1182.1	1119.1	1060.6	988.0	933.3	887.3	875.3
165°	1203.0	1194.0	1172.3	1122.1	1080.1	1019.9	970.4	929.3	923.3
167.5°	1186.8	1179.8	1165.5	1127.0	1093.0	1043.9	1002.2	969.0	960.8
170°	1175.4	1164.3	1159.0	1129.6	1099.5	1058.4	1022.7	992.8	983.7
172.5°	1155.7	1154.3	1149.9	1123.3	1105.3	1071.4	1041.5	1014.1	1008.3
175°	1132.3	1132.3	1135.4	1118.9	1112.8	1084.8	1063.7	1047.1	1038.0
177.5°	1105.3	1106.1	1112.6	1111.8	1112.6	1096.6	1090.5	1074.9	1073.3
180°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5

(END OF REPORT)