

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: P522600

Luminaire Tested: **SQW-F-100U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522600  
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-100U-075D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

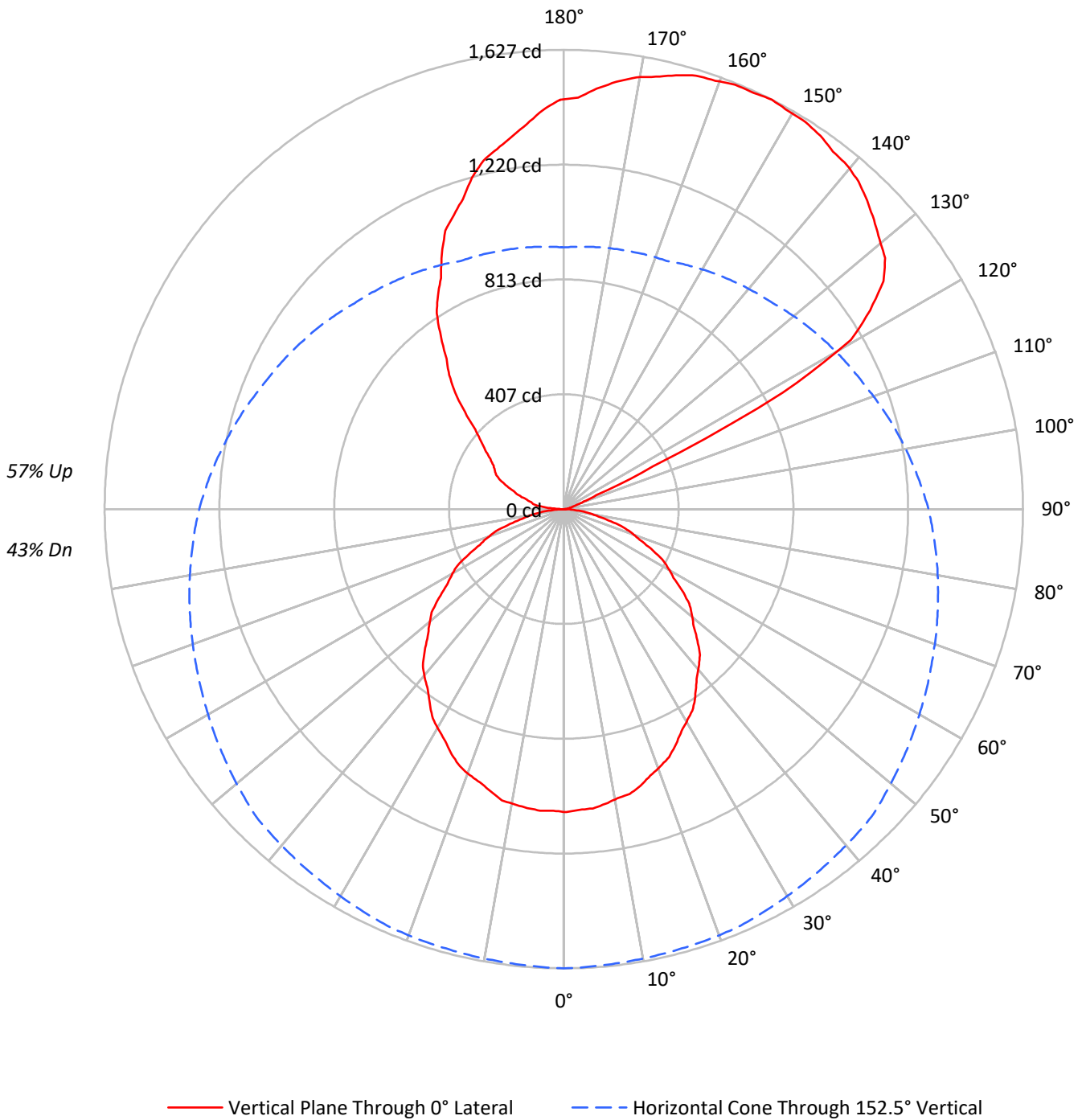
Lumens per Lamp: N/A  
Luminaire Lumens: 7027.5 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 66.2  
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





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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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	96	92	88	84	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	87	80	74	69	79	73	68	63	61	57	53	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	21
5	67	55	47	41	61	51	43	38	42	37	33	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	44	36	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	25	31	26	22	26	22	19	20	17	15	13
9	49	37	29	24	45	34	27	23	29	23	20	23	19	17	19	16	14	11
10	46	34	26	22	42	31	25	20	26	21	18	22	18	15	17	14	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	17329	17329	17329
5°	17264	17511	17363
10°	17084	17431	17382
15°	16995	17401	17265
20°	16740	17261	17173
25°	16438	17069	17033
30°	16129	16863	16770
35°	15837	16693	16513
40°	15506	16531	16318
45°	15162	16292	16061
50°	14775	15943	15739
55°	14311	15648	15305
60°	13740	15274	14883
65°	12974	14789	14285
70°	12118	14120	13596
75°	10717	12863	12358
80°	8926	11278	10897
85°	5798	8800	8429



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.5	1.4
10°-20°	289.8	4.1
20°-30°	436.0	6.2
30°-40°	520.8	7.4
40°-50°	535.9	7.6
50°-60°	481.8	6.9
60°-70°	367.0	5.2
70°-80°	208.2	3.0
80°-90°	54.5	0.8
90°-100°	36.6	0.5
100°-110°	162.5	2.3
110°-120°	467.0	6.6
120°-130°	711.3	10.1
130°-140°	772.1	11.0
140°-150°	738.4	10.5
150°-160°	608.3	8.7
160°-170°	398.1	5.7
170°-180°	137.8	2.0
0°-30°	827.2	11.8
0°-40°	1348.0	19.2
0°-60°	2365.6	33.7
0°-90°	2995.4	42.6
90°-120°	666.1	9.5
90°-150°	2888.0	41.1
90°-180°	4032.0	57.4
0°-180°	7027.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1073	1073	1073	1073	1073	
5°	1065	1066	1080	1073	1071	101
15°	1017	1022	1041	1036	1033	286
25°	923	943	958	964	956	425
35°	804	825	847	852	838	502
45°	664	683	714	710	703	512
55°	508	529	556	553	544	454
65°	340	361	387	384	374	337
75°	172	186	206	204	198	183
85°	31	40	48	50	46	41
90°	0	0	0	0	0	1
95°	5	8	26	57	55	7
105°	36	99	187	128	136	42
115°	350	921	470	220	247	484
125°	1391	1211	750	372	316	1221
135°	1533	1388	995	616	491	1184
145°	1605	1494	1187	877	749	1005
155°	1621	1555	1329	1100	1003	750
165°	1587	1547	1425	1280	1218	450
175°	1494	1498	1468	1403	1370	144
180°	1451	1451	1451	1451	1451	



TEST NUMBER: P522600

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3
2.5°	1066.8	1070.0	1071.7	1068.0	1083.0	1070.4	1074.9	1071.6	1069.3
5°	1065.2	1064.2	1066.2	1062.6	1080.4	1066.5	1073.3	1068.3	1071.3
7.5°	1054.9	1052.9	1056.5	1057.0	1070.5	1060.4	1064.4	1063.1	1066.6
10°	1042.0	1043.9	1050.1	1051.3	1063.2	1052.3	1057.1	1058.2	1060.2
12.5°	1036.3	1032.8	1039.5	1043.3	1055.9	1042.7	1051.5	1050.9	1054.5
15°	1016.7	1015.7	1021.8	1025.1	1041.0	1029.1	1035.9	1035.8	1032.9
17.5°	992.0	992.0	1000.1	1001.7	1018.3	1009.6	1016.3	1013.3	1012.5
20°	974.3	974.3	986.4	984.8	1004.6	996.7	1002.6	995.6	999.5
22.5°	954.0	954.8	969.4	967.0	986.0	981.2	988.0	977.8	982.5
25°	922.7	925.7	942.9	941.3	958.1	953.1	964.2	952.1	956.1
27.5°	889.4	893.5	910.8	910.6	927.2	923.6	936.3	922.3	922.9
30°	865.1	870.0	887.3	888.7	904.5	898.6	913.6	900.5	899.5
32.5°	841.7	845.8	863.1	866.1	881.9	878.3	890.2	877.0	875.2
35°	803.5	808.4	824.7	830.1	846.9	842.0	852.0	839.8	837.8
37.5°	764.0	767.2	784.5	789.2	809.3	805.2	811.5	799.8	800.0
40°	735.7	739.7	757.0	762.5	784.3	779.3	783.2	773.2	774.2
42.5°	707.4	711.4	727.9	735.8	756.0	751.0	754.1	745.7	745.9
45°	664.0	667.0	683.2	693.7	713.5	708.6	710.5	702.4	703.4
47.5°	618.9	621.1	635.9	650.6	667.0	664.8	665.2	655.2	658.1
50°	588.2	591.2	604.4	619.9	634.7	635.7	633.7	623.6	626.6
52.5°	556.7	558.8	574.4	587.5	603.2	604.9	601.3	592.1	594.3
55°	508.4	510.3	528.6	542.0	555.9	556.8	552.8	545.7	543.7
57.5°	458.6	461.6	478.6	493.3	506.9	505.2	503.1	494.8	493.2
60°	425.5	428.4	444.7	460.1	473.0	472.0	469.9	460.9	460.9
62.5°	391.5	395.3	412.3	426.2	439.0	438.8	436.0	429.3	427.7
65°	339.6	343.5	360.8	373.2	387.1	387.1	384.0	375.9	373.9
67.5°	289.9	293.8	308.0	320.9	334.7	333.5	330.7	325.6	322.8
70°	256.7	260.7	270.9	285.3	299.1	297.2	295.1	290.0	288.0
72.5°	221.1	225.9	236.1	248.9	262.0	261.6	259.5	256.8	252.5
75°	171.8	174.8	186.0	197.3	206.2	207.2	204.1	203.0	198.1
77.5°	125.1	128.9	138.1	147.9	154.4	157.6	155.8	153.3	149.6
80°	96.0	99.0	108.1	116.3	121.3	125.2	124.3	120.2	117.2
82.5°	68.5	71.5	79.0	86.4	90.6	94.5	93.6	91.1	86.5
85°	31.3	33.3	40.4	45.5	47.5	52.4	50.5	48.4	45.5
87.5°	4.9	5.6	10.5	15.3	14.6	19.3	17.0	13.7	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	2.2	3.3	5.4	20.2	22.7	20.5	19.5
95°	5.4	5.4	8.1	25.7	25.7	41.5	56.8	55.4	55.4
97.5°	12.2	13.5	18.9	78.2	58.4	56.8	81.1	89.2	90.0
100°	17.6	18.9	29.7	127.5	86.5	73.3	86.5	105.5	109.5
102.5°	24.1	26.4	47.0	201.3	122.2	87.8	101.7	115.3	119.2
105°	36.5	40.5	98.7	337.3	186.6	116.5	128.4	135.2	136.5
107.5°	54.9	69.7	270.1	474.4	264.7	154.2	161.1	165.8	167.4
110°	74.4	106.1	469.1	557.1	323.1	183.0	178.5	190.6	187.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	125.2	218.2	688.7	625.0	381.5	217.1	194.7	214.5	216.0
115°	350.1	601.3	920.7	721.6	470.5	276.2	220.4	239.5	247.4
117.5°	878.8	1045.6	1042.9	811.0	555.9	345.7	251.2	260.3	269.3
120°	1181.6	1206.7	1104.5	871.5	611.1	395.6	277.1	273.3	281.2
122.5°	1294.1	1273.7	1151.0	924.5	667.3	447.6	310.7	287.3	294.2
125°	1391.1	1351.5	1211.3	1000.2	750.3	524.3	371.8	317.7	316.4
127.5°	1444.9	1403.4	1270.3	1065.8	826.6	604.0	441.3	360.7	348.5
130°	1470.9	1432.6	1311.4	1106.1	877.4	658.0	492.1	398.4	379.9
132.5°	1502.3	1460.8	1340.6	1147.4	926.1	708.8	542.9	443.7	422.1
135°	1533.1	1494.7	1388.4	1201.2	995.0	783.5	616.5	518.5	490.7
137.5°	1560.7	1525.5	1432.2	1243.6	1057.2	857.1	694.3	598.9	565.1
140°	1579.0	1540.7	1450.6	1276.2	1095.1	903.4	746.3	651.0	624.6
142.5°	1585.5	1562.0	1470.1	1303.5	1137.2	947.7	798.2	699.7	675.4
145°	1604.7	1588.9	1493.9	1336.4	1187.0	1013.8	877.4	775.4	749.0
147.5°	1617.2	1593.4	1515.8	1371.8	1235.7	1073.1	949.3	851.4	826.8
150°	1618.3	1599.7	1533.1	1393.7	1268.1	1116.1	993.7	901.2	878.8
152.5°	1626.9	1604.2	1541.7	1412.2	1291.9	1152.6	1038.0	952.0	927.4
155°	1621.0	1605.1	1554.7	1436.0	1328.9	1199.4	1100.5	1024.3	1003.1
157.5°	1621.0	1601.4	1556.3	1454.5	1364.6	1251.0	1158.9	1088.5	1072.6
160°	1610.1	1602.2	1557.4	1467.6	1383.0	1279.9	1197.8	1133.8	1112.6
162.5°	1605.8	1592.6	1559.6	1476.4	1399.2	1303.5	1231.3	1170.7	1154.8
165°	1587.2	1575.3	1546.6	1480.4	1424.9	1345.6	1280.3	1226.0	1218.1
167.5°	1565.8	1556.5	1537.7	1486.9	1442.0	1377.2	1322.2	1278.4	1267.6
170°	1550.7	1536.1	1529.0	1490.3	1450.6	1396.4	1349.2	1309.7	1297.8
172.5°	1524.7	1522.8	1517.1	1482.0	1458.2	1413.5	1374.1	1338.0	1330.3
175°	1493.9	1493.9	1497.9	1476.1	1468.2	1431.2	1403.3	1381.4	1369.5
177.5°	1458.2	1459.2	1467.9	1466.9	1467.9	1446.8	1438.7	1418.1	1416.0
180°	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6

(END OF REPORT)