

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: P522595

Luminaire Tested: **SQW-F-100U-050D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522595  
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-050D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 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**

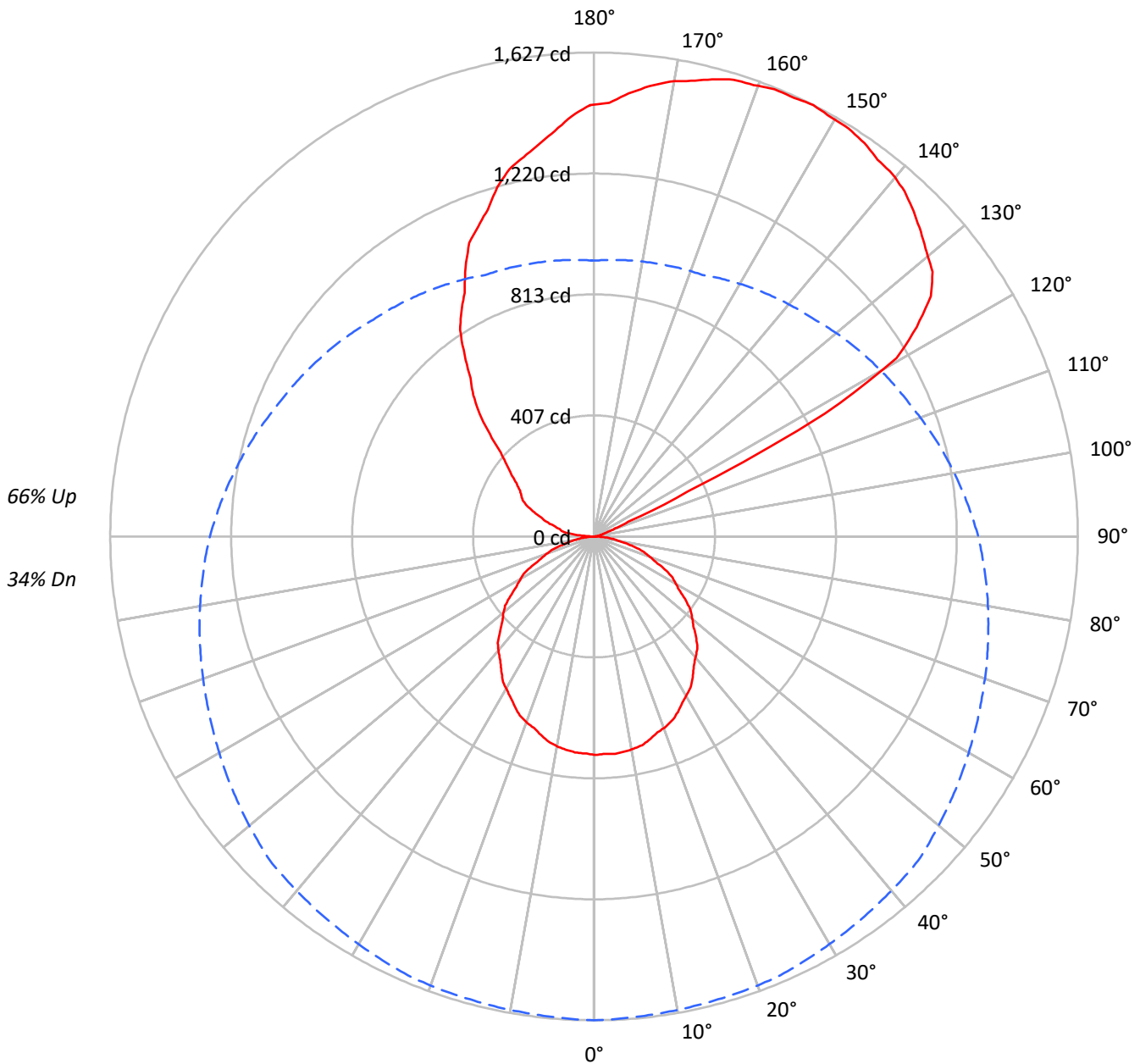
Lumens per Lamp: N/A  
Luminaire Lumens: 6077.3 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 55.9  
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 0° Lateral      - - - Horizontal Cone Through 152.5° 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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	35	35	28
2	86	78	72	67	77	71	66	61	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	30	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	26	28	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	26	46	36	29	24	29	24	20	23	19	16	17	14	13	10
9	48	36	28	23	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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

	0°	90°	180°
0°	11862	11862	11862
5°	11908	11958	11827
10°	11914	11963	11765
15°	11826	11943	11606
20°	11756	11808	11460
25°	11667	11667	11325
30°	11494	11587	11080
35°	11294	11434	10837
40°	11120	11247	10629
45°	10962	11077	10316
50°	10738	10891	10078
55°	10441	10640	9728
60°	10117	10411	9300
65°	9769	10155	8840
70°	9257	9541	8110
75°	8571	8640	7311
80°	7615	7708	5923
85°	5984	5798	4113



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	1.1
10°-20°	198.6	3.3
20°-30°	298.7	4.9
30°-40°	356.5	5.9
40°-50°	366.1	6.0
50°-60°	329.0	5.4
60°-70°	249.5	4.1
70°-80°	140.7	2.3
80°-90°	36.5	0.6
90°-100°	36.6	0.6
100°-110°	162.5	2.7
110°-120°	467.0	7.7
120°-130°	711.3	11.7
130°-140°	772.1	12.7
140°-150°	738.4	12.1
150°-160°	608.3	10.0
160°-170°	398.1	6.5
170°-180°	137.8	2.3
0°-30°	566.9	9.3
0°-40°	923.4	15.2
0°-60°	1618.5	26.6
0°-90°	2045.2	33.7
90°-120°	666.1	11.0
90°-150°	2888.0	47.5
90°-180°	4032.0	66.3
0°-180°	6077.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	735	735	735	735	735	
5°	735	734	738	733	730	70
15°	708	710	714	698	694	200
25°	655	657	655	646	636	301
35°	573	582	580	565	550	359
45°	480	486	485	467	452	370
55°	371	378	378	360	346	331
65°	256	263	266	243	231	252
75°	137	140	138	125	117	146
85°	32	35	31	26	22	38
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7
2.5°	731.5	734.7	733.9	733.3	740.4	734.1	734.7	733.9	730.7
5°	734.7	732.8	733.7	732.8	737.8	731.8	732.7	729.7	729.7
7.5°	731.5	728.3	729.3	728.6	732.9	726.2	725.0	721.3	724.8
10°	726.7	722.7	723.6	723.8	729.7	719.8	718.6	715.6	717.6
12.5°	720.2	717.8	718.0	716.5	724.8	711.8	711.3	709.1	709.5
15°	707.5	710.4	710.5	703.7	714.5	698.7	698.4	698.3	694.3
17.5°	692.3	696.4	700.0	691.2	698.6	685.3	685.0	681.5	676.7
20°	684.2	685.2	690.3	682.3	687.2	676.4	676.1	667.0	667.0
22.5°	672.9	673.1	679.0	670.2	675.1	664.2	664.8	654.1	654.9
25°	654.9	653.9	656.9	650.9	654.9	645.0	645.8	634.7	635.7
27.5°	632.7	633.8	638.5	629.4	635.3	623.2	623.6	613.4	612.0
30°	616.5	618.5	625.6	615.6	621.5	608.7	607.4	597.2	594.3
32.5°	599.5	601.5	608.6	601.0	606.2	594.1	591.2	579.5	577.3
35°	573.0	575.0	582.1	578.1	580.1	568.3	564.9	552.8	549.8
37.5°	546.2	548.1	554.0	551.2	553.0	540.6	535.8	525.1	522.9
40°	527.6	529.5	534.6	532.6	533.6	522.7	516.4	507.3	504.3
42.5°	509.8	511.0	515.2	511.6	514.2	504.1	497.0	487.8	483.3
45°	480.1	480.1	486.1	482.1	485.1	475.2	466.9	456.7	451.8
47.5°	449.3	447.6	454.6	453.2	454.6	443.9	435.6	425.0	421.4
50°	427.5	426.5	433.6	434.6	433.6	423.7	415.4	403.2	401.2
52.5°	404.1	405.4	410.9	411.9	411.7	401.9	392.7	381.4	379.4
55°	370.9	372.9	378.0	379.0	378.0	369.1	359.8	347.6	345.6
57.5°	335.9	340.7	345.0	346.1	346.7	337.2	325.6	316.4	312.3
60°	313.3	317.3	322.4	323.4	322.4	314.5	302.2	293.0	288.0
62.5°	290.7	293.0	298.1	300.7	298.1	290.2	277.9	269.6	267.8
65°	255.7	257.7	262.8	264.8	265.8	254.9	242.6	235.4	231.4
67.5°	217.9	220.3	223.1	226.0	227.2	215.7	205.6	198.0	193.6
70°	196.1	196.1	198.1	200.2	202.1	192.2	182.9	173.8	171.8
72.5°	172.6	172.6	175.4	176.7	177.1	168.0	159.5	151.2	150.8
75°	137.4	137.4	139.5	140.4	138.5	132.5	125.3	118.2	117.2
77.5°	104.5	103.9	105.7	106.5	105.5	98.8	91.8	86.9	85.5
80°	81.9	82.9	83.9	83.9	82.9	76.9	70.7	66.6	63.7
82.5°	60.8	61.8	63.7	63.6	61.0	57.5	52.1	47.3	46.7
85°	32.3	32.3	35.4	34.3	31.3	29.4	26.3	22.2	22.2
87.5°	8.1	8.9	10.5	12.8	8.9	9.7	5.7	3.2	2.4
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)