

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: P511777

Luminaire Tested: **SQW-F-050U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511777
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-16,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-050U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

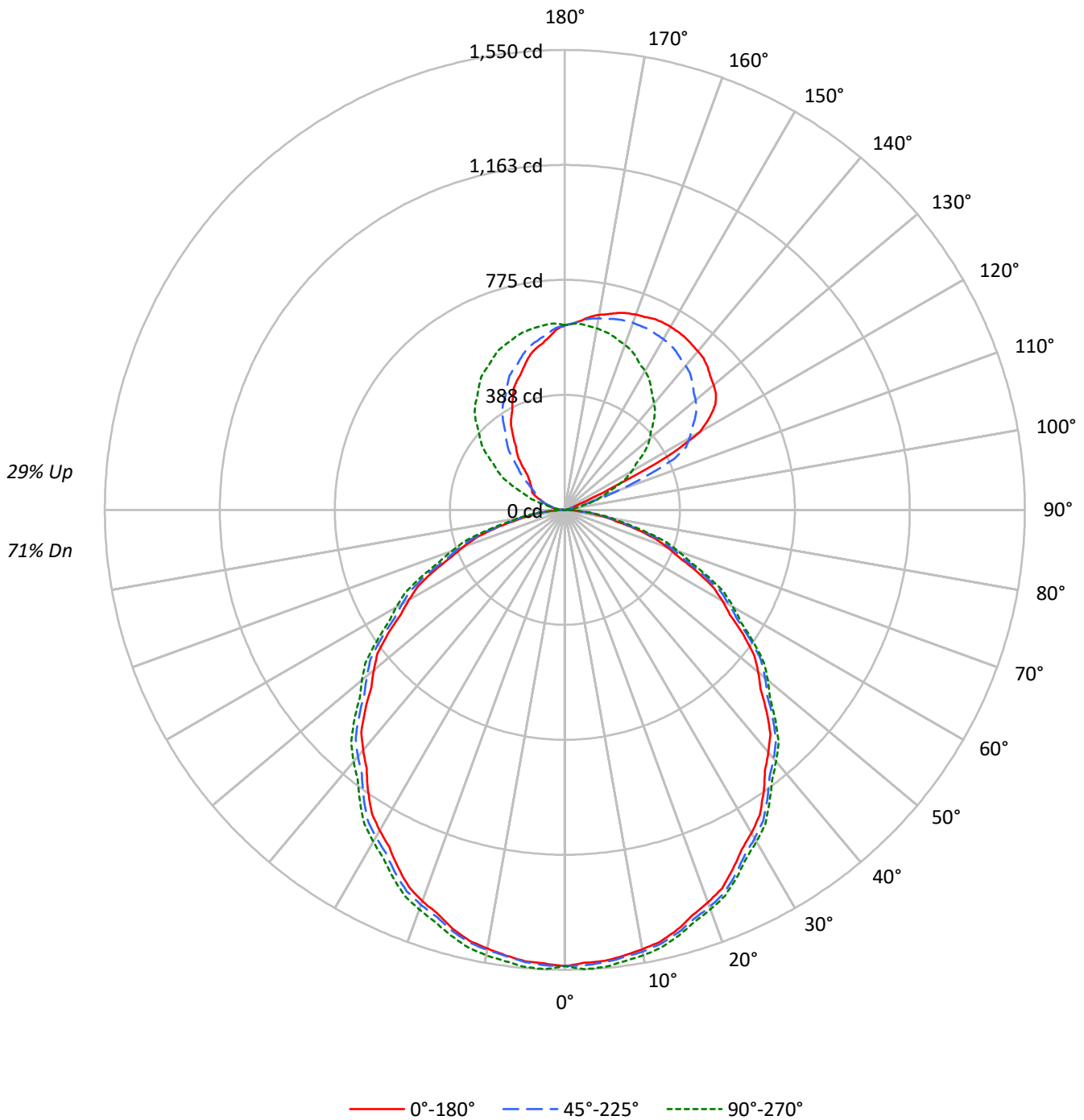
Lumens per Lamp: N/A
Luminaire Lumens: 5926.6 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 61.2
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	102	98	94	90	97	93	89	86	83	81	78	75	72	71	66	65	63	60
2	93	85	79	74	88	81	75	71	73	68	64	65	62	59	58	56	53	50
3	85	75	67	61	80	71	64	59	64	59	54	58	53	50	52	48	45	42
4	78	66	58	52	73	63	56	50	57	51	46	51	46	42	46	42	39	36
5	71	59	51	44	67	56	49	43	51	45	40	46	41	37	41	37	34	31
6	66	53	45	39	62	51	43	37	46	40	35	42	36	32	38	33	30	27
7	61	48	40	34	57	46	38	33	42	35	31	38	33	29	34	30	26	24
8	57	44	36	30	53	42	34	29	38	32	27	35	29	25	31	27	24	21
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	24	32	26	22	30	24	21	27	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49646	49646	49646
5°	49482	50137	49508
10°	49306	49998	49224
15°	48973	49648	48859
20°	48399	49268	48223
25°	47659	48771	47388
30°	46885	48146	46509
35°	45981	47408	45547
40°	44970	46677	44582
45°	43868	45832	43407
50°	42707	44827	42199
55°	41307	43632	40879
60°	39545	42322	39164
65°	37311	40665	37051
70°	34480	38304	34235
75°	30306	34623	30406
80°	24473	28694	25086
85°	14079	19674	16858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	2.5
10°-20°	414.2	7.0
20°-30°	620.7	10.5
30°-40°	738.2	12.5
40°-50°	755.9	12.8
50°-60°	674.0	11.4
60°-70°	503.5	8.5
70°-80°	275.9	4.7
80°-90°	64.9	1.1
90°-100°	15.3	0.3
100°-110°	69.8	1.2
110°-120°	204.7	3.5
120°-130°	308.2	5.2
130°-140°	331.0	5.6
140°-150°	315.8	5.3
150°-160°	259.9	4.4
160°-170°	170.2	2.9
170°-180°	59.0	1.0
0°-30°	1180.2	19.9
0°-40°	1918.5	32.4
0°-60°	3348.4	56.5
0°-90°	4192.6	70.7
90°-120°	289.8	4.9
90°-150°	1244.8	21.0
90°-180°	1734.0	29.3
0°-180°	5926.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1537	1537	1537	1537	1537	
5°	1526	1532	1547	1530	1527	145
15°	1465	1475	1485	1468	1462	413
25°	1338	1358	1369	1351	1330	616
35°	1166	1190	1203	1182	1155	729
45°	961	991	1004	979	950	741
55°	734	762	775	754	726	655
65°	488	512	532	508	485	483
75°	243	261	278	259	244	259
85°	38	51	53	52	46	54
90°	1	1	1	2	4	1
95°	4	5	11	19	18	5
105°	19	45	80	53	56	22
115°	164	407	199	100	110	220
125°	619	535	317	149	138	544
135°	680	608	424	252	194	525
145°	708	652	506	361	304	444
155°	710	671	568	461	415	328
165°	687	665	610	543	512	195
175°	640	640	629	601	586	62
180°	622	622	622	622	622	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4
2.5°	1528.0	1535.2	1536.1	1535.1	1549.6	1535.7	1536.1	1534.6	1530.7
5°	1526.5	1528.1	1531.5	1529.4	1546.7	1528.6	1529.8	1526.5	1527.3
7.5°	1515.8	1517.0	1520.7	1516.8	1534.2	1516.6	1517.0	1513.5	1515.3
10°	1503.7	1506.2	1511.3	1506.6	1524.8	1505.8	1506.2	1502.0	1501.2
12.5°	1490.2	1491.4	1497.8	1493.1	1509.9	1491.6	1492.7	1486.5	1487.0
15°	1464.9	1469.0	1475.0	1467.8	1485.1	1467.0	1468.3	1462.4	1461.5
17.5°	1432.0	1439.3	1445.3	1438.1	1455.3	1436.7	1437.8	1429.6	1427.0
20°	1408.4	1415.0	1424.4	1417.2	1433.7	1413.1	1416.8	1403.3	1403.3
22.5°	1382.1	1386.0	1399.5	1391.6	1408.7	1388.1	1391.2	1374.3	1375.0
25°	1337.6	1343.3	1357.8	1351.4	1368.8	1347.3	1351.1	1331.6	1330.0
27.5°	1290.5	1297.3	1312.3	1306.4	1323.6	1302.3	1305.0	1283.7	1281.1
30°	1257.4	1264.9	1278.5	1274.7	1291.2	1270.6	1272.6	1250.6	1247.3
32.5°	1221.0	1229.8	1243.4	1242.9	1256.8	1238.1	1238.2	1215.5	1211.6
35°	1166.4	1174.6	1190.0	1190.3	1202.6	1183.7	1182.4	1160.3	1155.4
37.5°	1108.0	1117.4	1133.1	1135.2	1146.5	1128.8	1123.7	1101.7	1097.4
40°	1066.8	1077.6	1094.7	1097.4	1107.3	1088.4	1084.6	1062.5	1057.6
42.5°	1025.7	1036.4	1053.5	1057.6	1066.2	1050.5	1042.7	1020.7	1015.1
45°	960.6	972.1	990.9	997.0	1003.6	989.6	979.1	957.1	950.5
47.5°	894.6	905.4	925.0	933.4	937.5	925.6	914.7	891.8	884.5
50°	850.1	860.8	880.5	888.1	892.3	882.4	869.5	846.6	840.0
52.5°	803.5	814.3	833.9	842.9	846.4	837.8	825.0	802.0	795.5
55°	733.7	742.8	762.4	773.4	775.0	769.3	754.0	731.9	726.1
57.5°	660.9	669.8	689.2	701.1	703.9	698.1	681.8	659.9	654.9
60°	612.3	620.5	639.3	651.2	655.3	649.5	632.5	611.3	606.4
62.5°	563.0	570.6	588.7	601.3	606.7	600.3	582.6	562.1	557.1
65°	488.3	494.9	511.9	528.9	532.2	524.7	507.7	488.2	484.9
67.5°	414.4	419.4	435.3	452.0	456.3	448.7	431.1	414.5	410.5
70°	365.2	370.1	385.4	400.7	405.7	397.4	381.2	365.9	362.6
72.5°	315.9	320.2	335.5	349.4	354.4	347.5	331.3	317.4	314.1
75°	242.9	247.8	261.4	274.2	277.5	272.5	258.9	247.0	243.7
77.5°	174.7	177.9	189.6	199.4	202.2	198.6	188.2	177.7	176.1
80°	131.6	134.0	145.1	153.5	154.3	152.7	145.1	136.6	134.9
82.5°	91.8	94.9	105.3	112.3	110.5	111.5	105.9	98.1	97.2
85°	38.0	39.6	50.6	57.3	53.1	57.3	52.3	46.4	45.5
87.5°	4.2	4.9	8.9	16.3	14.3	17.6	14.5	10.6	10.8
90°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6	3.5
92.5°	2.3	2.3	2.3	3.0	3.0	7.0	5.2	4.7	5.6
95°	4.3	4.3	5.2	13.0	11.3	17.2	19.1	18.2	18.2
97.5°	7.6	7.6	9.9	34.5	25.5	23.5	32.1	33.2	32.8
100°	10.4	10.4	14.8	55.2	37.4	30.6	35.6	40.9	42.6
102.5°	13.2	13.9	22.4	85.4	52.6	39.0	40.5	45.7	47.4
105°	19.1	20.8	45.2	143.6	79.9	51.9	53.0	53.9	56.5
107.5°	28.3	34.6	114.5	205.0	112.7	68.1	70.4	67.6	67.8
110°	37.4	51.8	193.7	244.2	136.4	79.5	80.8	77.3	78.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	61.0	102.6	294.5	275.4	161.4	92.9	88.4	91.9	90.0
115°	164.2	267.8	407.4	320.4	198.9	115.7	99.9	107.8	110.3
117.5°	392.3	462.3	460.5	358.4	236.3	143.2	110.5	117.9	122.1
120°	526.4	536.6	485.6	382.0	260.6	162.1	118.1	123.4	127.7
122.5°	578.5	566.3	506.4	403.6	283.5	182.3	128.6	127.6	132.6
125°	619.3	597.2	535.1	433.4	317.0	216.0	149.4	135.6	138.1
127.5°	642.4	618.0	559.7	461.3	351.1	249.7	177.0	148.7	147.1
130°	654.9	631.2	575.0	478.8	372.6	273.3	197.2	159.7	155.5
132.5°	665.4	643.6	588.9	495.6	393.5	296.2	218.7	176.3	168.7
135°	680.1	659.7	608.0	518.2	423.9	328.8	251.9	204.7	193.7
137.5°	692.6	671.9	624.2	539.6	450.1	360.6	284.2	239.4	226.5
140°	697.5	678.8	633.2	552.3	468.2	380.7	305.8	260.4	250.2
142.5°	702.4	684.4	641.6	564.8	483.5	400.1	328.0	282.6	271.7
145°	707.9	690.1	652.3	581.1	505.5	428.2	361.3	315.1	304.0
147.5°	710.9	694.9	660.3	594.9	527.1	454.2	394.2	347.6	337.5
150°	712.3	697.0	664.5	604.0	540.3	471.5	414.3	369.8	360.5
152.5°	712.3	696.3	666.6	611.0	551.4	487.4	433.8	391.4	382.7
155°	710.5	695.2	670.6	619.9	568.1	510.3	461.2	424.5	415.2
157.5°	703.6	694.4	670.6	628.0	582.5	531.7	488.0	455.3	447.0
160°	700.1	691.6	670.6	632.3	591.5	544.8	504.7	474.1	466.4
162.5°	695.2	686.7	669.2	635.2	599.2	556.5	520.7	490.8	485.2
165°	687.1	678.6	665.4	637.8	609.8	573.3	542.9	517.6	511.6
167.5°	675.4	670.7	660.0	638.6	616.2	588.2	561.6	541.4	536.6
170°	667.1	663.7	655.8	638.0	621.1	596.4	574.2	556.7	553.3
172.5°	656.7	654.6	649.6	637.4	624.5	604.7	586.0	569.2	566.5
175°	640.2	641.9	640.2	634.8	628.9	615.3	601.1	588.9	586.3
177.5°	627.5	627.5	628.9	628.9	628.2	621.4	615.0	608.1	609.4
180°	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9

(END OF REPORT)