

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: P511829

Luminaire Tested: **SQW-F-0U-100D-840-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511829  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-0U-100D-840-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

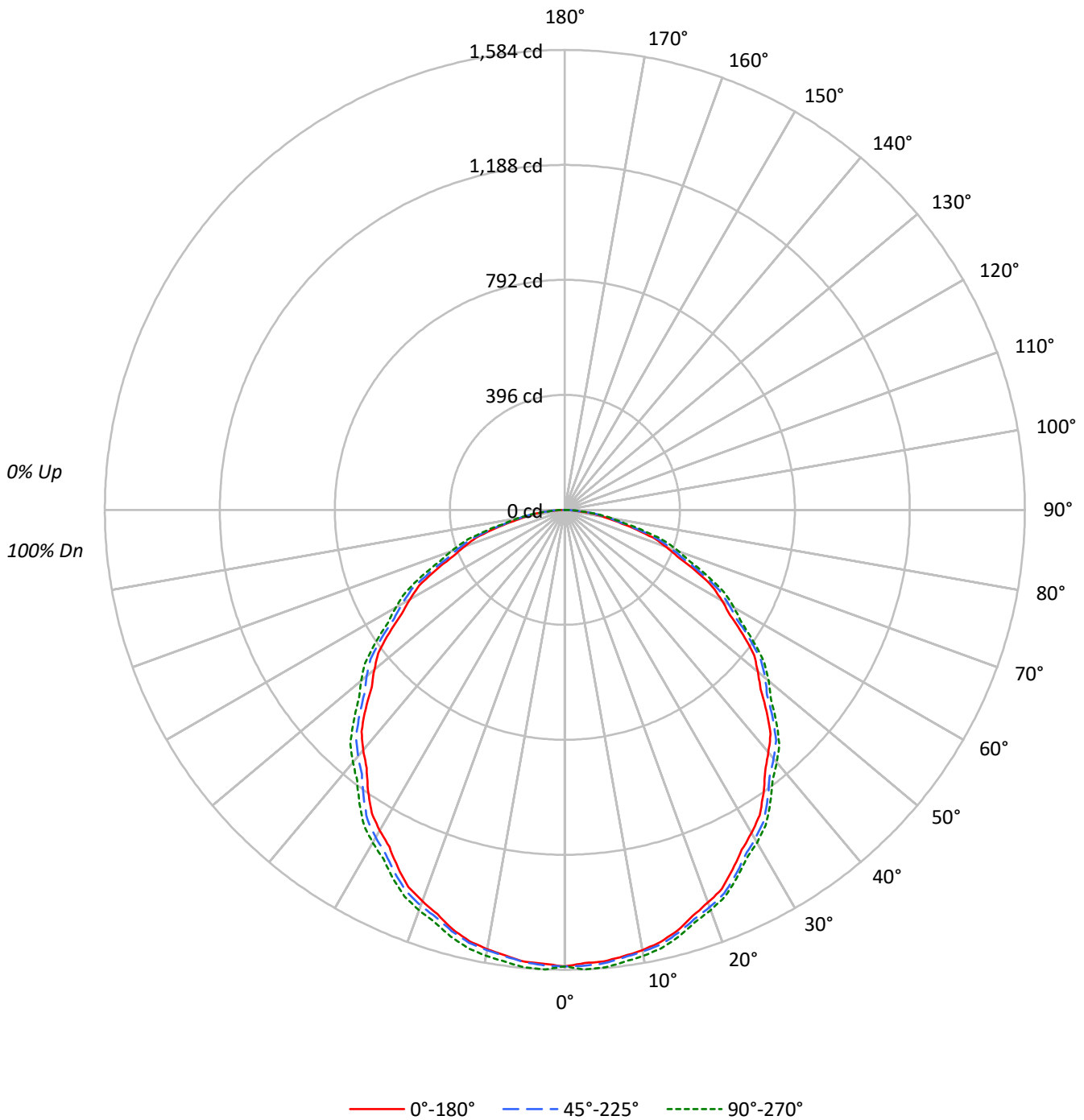
Lumens per Lamp: N/A  
Luminaire Lumens: 4286.3 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.6  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

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

	0°	90°	180°
0°	50782	50782	50782
5°	50597	51287	50665
10°	50484	51146	50379
15°	50153	50829	49976
20°	49467	50419	49285
25°	48710	49886	48446
30°	47918	49350	47523
35°	47010	48606	46548
40°	45961	47845	45510
45°	44832	46969	44298
50°	43596	46002	43003
55°	42140	44718	41543
60°	40294	43394	39745
65°	37914	41651	37425
70°	34886	39305	34480
75°	30293	35596	30954
80°	24361	29493	25737
85°	13412	20119	17340



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	3.5
10°-20°	423.8	9.9
20°-30°	635.3	14.8
30°-40°	755.4	17.6
40°-50°	773.3	18.0
50°-60°	689.3	16.1
60°-70°	513.9	12.0
70°-80°	280.8	6.6
80°-90°	65.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1207.8	28.2
0°-40°	1963.2	45.8
0°-60°	3425.8	79.9
0°-90°	4286.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4286.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1573	1573	1573	1573	1573	
5°	1561	1567	1582	1564	1563	148
15°	1500	1509	1520	1502	1495	422
25°	1367	1390	1400	1382	1360	630
35°	1192	1217	1233	1208	1181	745
45°	982	1012	1028	1000	970	757
55°	748	778	794	771	738	668
65°	496	521	545	516	490	491
75°	243	262	285	264	248	260
85°	36	50	54	55	47	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1572.6	1572.6	1572.6	1572.6	1572.6	1572.6	1572.6	1572.6	1572.6
2.5°	1562.4	1569.9	1571.8	1570.4	1584.5	1571.2	1570.9	1569.9	1565.0
5°	1560.9	1563.0	1567.3	1564.5	1582.2	1564.5	1564.1	1562.0	1563.0
7.5°	1550.7	1552.8	1555.2	1552.4	1570.1	1551.9	1551.7	1548.2	1549.2
10°	1539.6	1541.7	1544.9	1542.1	1559.8	1540.1	1540.7	1535.4	1536.4
12.5°	1524.3	1526.4	1532.2	1528.5	1545.4	1526.4	1527.0	1520.9	1521.1
15°	1500.2	1503.3	1508.7	1502.7	1520.4	1501.7	1502.3	1495.9	1494.9
17.5°	1465.9	1472.2	1478.7	1473.5	1489.4	1471.4	1472.3	1462.5	1459.8
20°	1439.5	1445.8	1456.6	1450.6	1467.2	1448.5	1450.2	1435.2	1434.2
22.5°	1413.1	1417.7	1431.0	1425.0	1441.7	1422.9	1423.8	1406.3	1406.1
25°	1367.1	1373.4	1389.5	1384.5	1400.1	1381.4	1382.0	1362.8	1359.7
27.5°	1320.1	1326.5	1342.8	1338.1	1354.1	1335.0	1336.2	1314.8	1308.6
30°	1285.1	1292.4	1309.6	1305.8	1323.5	1302.6	1302.2	1280.7	1274.5
32.5°	1247.7	1256.6	1273.9	1271.7	1287.7	1267.7	1265.5	1244.1	1237.9
35°	1192.5	1201.9	1217.0	1218.4	1233.0	1214.2	1208.5	1188.1	1180.8
37.5°	1132.9	1141.6	1158.0	1160.9	1175.0	1155.5	1147.4	1128.9	1120.5
40°	1090.3	1100.7	1118.0	1122.5	1135.0	1116.3	1107.3	1088.0	1079.6
42.5°	1048.6	1059.0	1077.1	1084.1	1093.3	1075.4	1064.7	1046.2	1036.2
45°	981.7	992.1	1011.5	1021.2	1028.5	1011.9	999.8	980.4	970.0
47.5°	913.8	925.2	944.8	956.9	961.7	946.5	935.3	913.7	902.0
50°	867.8	879.2	899.7	912.6	915.7	902.1	890.1	868.5	856.0
52.5°	820.9	830.7	851.2	865.7	867.1	856.1	843.3	821.7	810.1
55°	748.5	758.9	778.3	795.3	794.3	787.0	770.9	749.3	737.9
57.5°	674.2	682.5	702.7	720.8	721.3	712.9	697.4	676.1	664.8
60°	623.9	632.3	651.6	669.8	671.9	663.5	646.3	625.8	615.4
62.5°	573.7	581.2	599.7	619.5	621.6	613.3	595.2	575.6	565.2
65°	496.2	502.4	520.7	541.0	545.1	535.8	516.4	499.1	489.8
67.5°	419.7	425.8	442.7	462.9	468.3	457.7	440.2	423.8	414.6
70°	369.5	374.7	390.8	410.1	416.3	404.9	390.8	373.5	365.2
72.5°	318.4	323.6	339.7	358.1	363.5	352.9	339.7	324.2	320.9
75°	242.8	248.0	261.9	281.2	285.3	276.0	264.1	250.2	248.1
77.5°	175.3	178.6	191.2	204.5	207.2	201.6	194.4	182.0	181.0
80°	131.0	135.1	146.9	157.6	158.6	155.5	150.1	139.5	138.4
82.5°	91.8	95.1	105.2	115.0	113.5	113.7	110.1	100.3	100.1
85°	36.2	39.3	50.0	58.5	54.3	57.4	55.4	47.9	46.8
87.5°	3.4	4.2	8.5	17.0	15.3	17.8	15.3	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)