

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: P511748

Luminaire Tested: **SQW-F-025U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511748  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-15,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-025U-125D-940-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

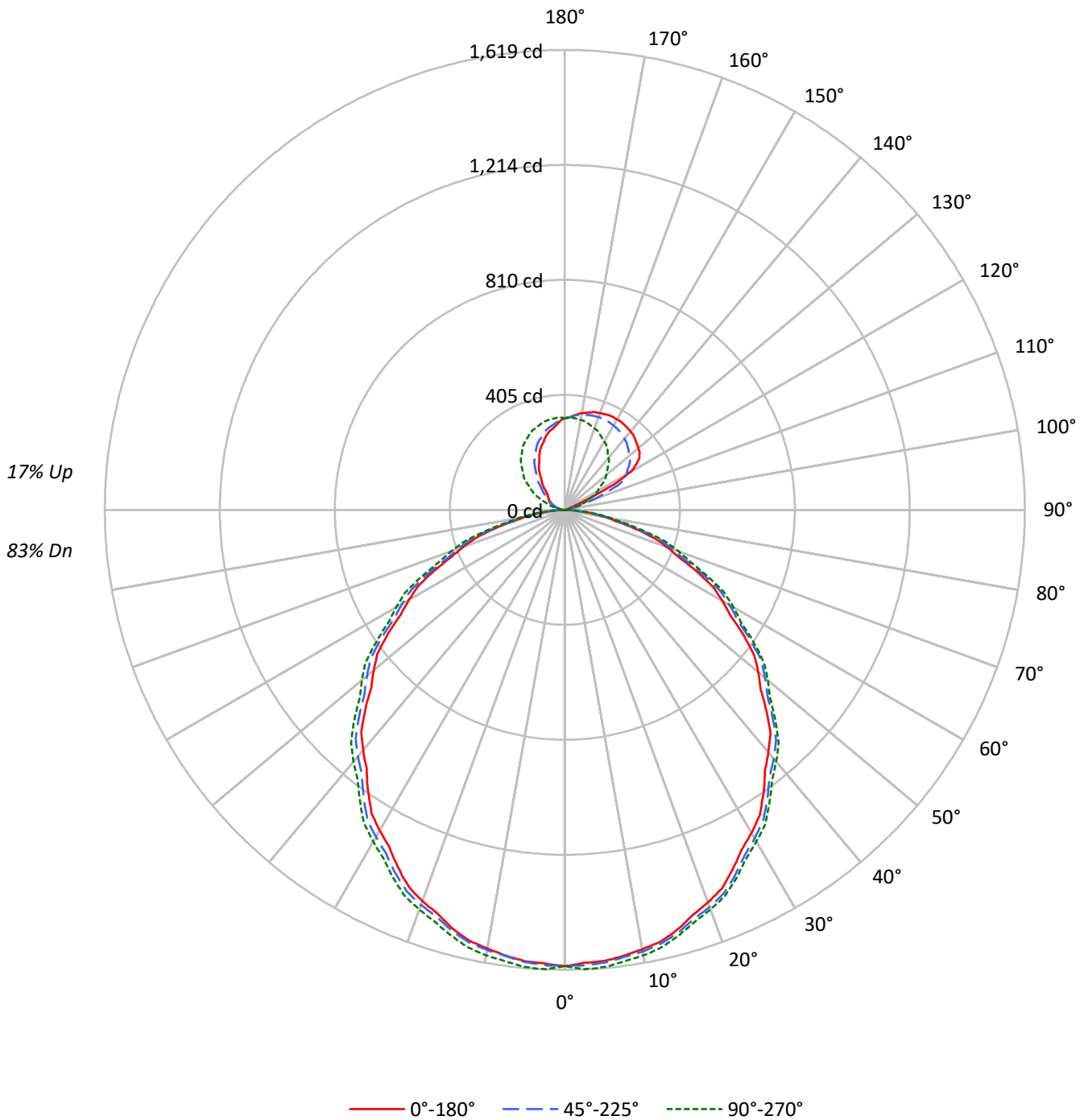
Lumens per Lamp: N/A  
Luminaire Lumens: 5270.5 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 54.2  
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	105	101	96	93	101	97	93	90	89	86	84	83	80	78	76	75	73	70
2	96	88	81	76	92	84	79	73	78	73	69	72	69	65	67	64	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	52	47	53	48	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36
6	68	55	46	40	65	53	45	39	50	43	37	46	40	36	43	38	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28
8	58	45	37	31	56	44	36	31	41	34	30	39	33	28	36	31	27	25
9	54	41	33	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	22	21

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

	0°	90°	180°
0°	51861	51861	51861
5°	51686	52370	51715
10°	51503	52225	51418
15°	51156	51862	51039
20°	50557	51464	50375
25°	49782	50944	49497
30°	48977	50290	48582
35°	48027	49521	47577
40°	46976	48760	46568
45°	45823	47873	45339
50°	44611	46821	44078
55°	43148	45580	42703
60°	41308	44208	40907
65°	38976	42476	38701
70°	36010	40004	35764
75°	31653	36157	31765
80°	25551	29977	26221
85°	14672	20563	17636



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.8	2.9
10°-20°	432.6	8.2
20°-30°	648.4	12.3
30°-40°	771.1	14.6
40°-50°	789.6	15.0
50°-60°	704.1	13.4
60°-70°	525.9	10.0
70°-80°	288.2	5.5
80°-90°	67.6	1.3
90°-100°	7.9	0.1
100°-110°	36.2	0.7
110°-120°	104.9	2.0
120°-130°	158.2	3.0
130°-140°	169.4	3.2
140°-150°	161.9	3.1
150°-160°	134.1	2.5
160°-170°	88.0	1.7
170°-180°	30.5	0.6
0°-30°	1232.8	23.4
0°-40°	2004.0	38.0
0°-60°	3497.6	66.4
0°-90°	4379.3	83.1
90°-120°	148.9	2.8
90°-150°	638.5	12.1
90°-180°	891.0	16.9
0°-180°	5270.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1606	1606	1606	1606	1606	
5°	1594	1600	1616	1598	1595	151
15°	1530	1541	1551	1534	1527	431
25°	1397	1418	1430	1411	1389	644
35°	1218	1243	1256	1235	1207	761
45°	1003	1035	1048	1023	993	774
55°	766	796	810	788	758	684
65°	510	535	556	530	506	505
75°	254	273	290	270	255	270
85°	40	53	56	55	48	56
90°	1	1	0	1	2	1
95°	3	3	6	11	9	3
105°	10	24	42	28	29	11
115°	83	210	103	52	56	111
125°	321	277	162	76	70	281
135°	351	314	215	127	97	271
145°	365	337	261	184	153	229
155°	368	347	293	238	211	170
165°	355	345	315	281	264	101
175°	331	331	325	311	303	32
180°	322	322	322	322	322	



TEST NUMBER: P511748

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0
2.5°	1596.1	1603.7	1604.5	1603.5	1618.6	1604.2	1604.5	1603.0	1598.9
5°	1594.5	1596.2	1599.8	1597.6	1615.6	1596.7	1598.0	1594.5	1595.4
7.5°	1583.4	1584.6	1588.5	1584.3	1602.6	1584.2	1584.6	1581.0	1582.9
10°	1570.7	1573.3	1578.6	1573.8	1592.7	1572.9	1573.4	1568.9	1568.1
12.5°	1556.6	1557.8	1564.5	1559.7	1577.2	1558.1	1559.3	1552.8	1553.3
15°	1530.2	1534.5	1540.8	1533.2	1551.3	1532.4	1533.7	1527.5	1526.7
17.5°	1495.8	1503.4	1509.8	1502.2	1520.1	1500.7	1501.8	1493.3	1490.5
20°	1471.2	1478.1	1487.9	1480.4	1497.6	1476.1	1480.0	1465.9	1465.9
22.5°	1443.7	1447.8	1461.8	1453.6	1471.5	1450.0	1453.2	1435.6	1436.3
25°	1397.2	1403.2	1418.3	1411.7	1429.8	1407.4	1411.3	1391.0	1389.2
27.5°	1348.0	1355.1	1370.7	1364.6	1382.5	1360.3	1363.2	1340.9	1338.1
30°	1313.5	1321.2	1335.5	1331.5	1348.7	1327.2	1329.3	1306.4	1302.9
32.5°	1275.4	1284.6	1298.9	1298.3	1312.8	1293.3	1293.4	1269.7	1265.6
35°	1218.3	1227.0	1243.0	1243.3	1256.2	1236.4	1235.1	1212.1	1206.9
37.5°	1157.4	1167.2	1183.6	1185.8	1197.5	1179.1	1173.8	1150.8	1146.3
40°	1114.4	1125.6	1143.5	1146.3	1156.7	1136.9	1132.9	1109.9	1104.7
42.5°	1071.4	1082.6	1100.5	1104.7	1113.7	1097.3	1089.2	1066.2	1060.3
45°	1003.4	1015.4	1035.1	1041.4	1048.3	1033.7	1022.8	999.7	992.8
47.5°	934.5	945.7	966.2	974.9	979.3	966.8	955.5	931.5	923.9
50°	888.0	899.2	919.7	927.7	932.0	921.7	908.2	884.3	877.4
52.5°	839.4	850.6	871.1	880.5	884.1	875.2	861.7	837.8	830.9
55°	766.4	775.9	796.4	807.9	809.6	803.6	787.6	764.5	758.5
57.5°	690.3	699.6	719.9	732.3	735.2	729.2	712.2	689.3	684.1
60°	639.6	648.2	667.8	680.2	684.5	678.5	660.7	638.6	633.4
62.5°	588.1	596.0	614.9	628.1	633.7	627.0	608.6	587.1	581.9
65°	510.1	517.0	534.7	552.4	555.9	548.1	530.3	510.0	506.5
67.5°	432.9	438.1	454.7	472.1	476.6	468.7	450.3	433.0	428.8
70°	381.4	386.6	402.6	418.6	423.7	415.1	398.2	382.2	378.8
72.5°	330.0	334.5	350.4	365.0	370.2	362.9	346.0	331.5	328.1
75°	253.7	258.9	273.1	286.4	289.8	284.7	270.4	258.0	254.6
77.5°	182.5	185.8	198.0	208.3	211.2	207.5	196.6	185.7	183.9
80°	137.4	140.0	151.5	160.4	161.2	159.5	151.5	142.7	141.0
82.5°	95.8	99.1	109.9	117.3	115.4	116.4	110.6	102.5	101.5
85°	39.6	41.4	52.9	59.8	55.5	59.8	54.6	48.4	47.6
87.5°	4.4	5.1	9.3	16.9	14.8	18.2	15.0	10.8	10.9
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	1.8
92.5°	0.9	1.6	0.9	1.4	1.4	3.5	3.0	2.3	2.5
95°	2.7	2.7	2.7	6.2	6.2	8.8	10.7	9.8	8.9
97.5°	3.9	3.9	5.2	17.5	13.9	11.8	16.5	17.1	17.1
100°	5.3	5.3	8.0	27.4	19.5	16.1	18.7	21.3	21.3
102.5°	6.8	7.4	12.3	42.8	27.4	19.7	21.5	23.5	24.2
105°	9.8	10.6	24.0	73.0	41.7	27.0	27.5	28.4	29.3
107.5°	14.6	18.0	60.2	104.3	59.2	34.8	36.8	35.2	35.2
110°	19.5	26.5	102.1	124.0	71.9	40.7	41.7	40.9	40.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	30.9	51.8	152.6	140.3	84.7	47.9	46.0	47.9	46.5
115°	82.6	134.7	209.6	163.0	103.0	59.6	51.5	55.1	56.0
117.5°	196.8	235.6	237.7	182.0	121.9	72.7	56.0	60.1	61.8
120°	270.0	276.1	250.5	194.0	133.2	82.0	59.5	62.2	63.9
122.5°	297.7	292.0	261.8	205.4	144.6	92.7	65.2	65.1	66.8
125°	320.6	308.5	277.1	222.5	162.5	109.6	76.4	69.3	70.2
127.5°	332.0	319.8	289.7	236.6	179.4	127.5	90.4	75.3	74.6
130°	338.4	326.2	297.5	246.5	190.1	138.8	100.4	81.6	78.2
132.5°	344.1	332.6	304.6	254.4	200.7	149.5	111.0	89.4	84.6
135°	350.8	339.5	313.5	266.2	214.9	166.3	127.0	103.8	96.8
137.5°	356.9	346.4	321.7	276.8	229.9	181.4	143.2	120.6	113.0
140°	359.7	349.3	326.0	283.2	239.8	192.0	154.5	131.3	124.3
142.5°	362.6	352.8	330.2	289.7	248.3	202.7	165.9	142.7	135.7
145°	365.0	356.4	336.6	298.5	261.1	217.7	183.9	159.7	152.8
147.5°	367.7	358.5	340.7	306.0	271.6	232.5	200.0	176.8	170.0
150°	367.7	359.9	342.8	311.0	278.0	242.4	211.4	188.2	182.1
152.5°	368.4	359.9	345.0	315.3	285.1	251.6	222.0	199.5	194.2
155°	367.7	359.9	347.3	320.9	293.1	263.6	238.0	216.6	211.4
157.5°	364.5	359.5	347.3	324.2	301.3	274.2	251.9	235.0	227.7
160°	362.4	358.0	347.3	326.4	305.5	281.2	261.1	245.0	239.8
162.5°	360.2	355.9	346.6	328.6	309.8	287.6	268.9	253.6	249.8
165°	355.3	351.8	344.6	330.1	315.3	296.2	280.7	267.3	263.8
167.5°	349.8	347.3	341.4	331.0	319.4	304.5	291.0	280.6	276.6
170°	345.5	343.8	339.3	331.1	321.5	309.4	296.7	287.7	285.1
172.5°	339.8	338.8	336.4	329.7	322.9	312.9	303.0	294.8	292.2
175°	331.3	331.3	331.3	328.5	325.1	318.1	310.9	304.6	302.9
177.5°	324.5	325.2	326.0	325.3	325.3	321.8	318.1	314.6	315.3
180°	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4

(END OF REPORT)