

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: P511808

Luminaire Tested: **SQW-F-075U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511808
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

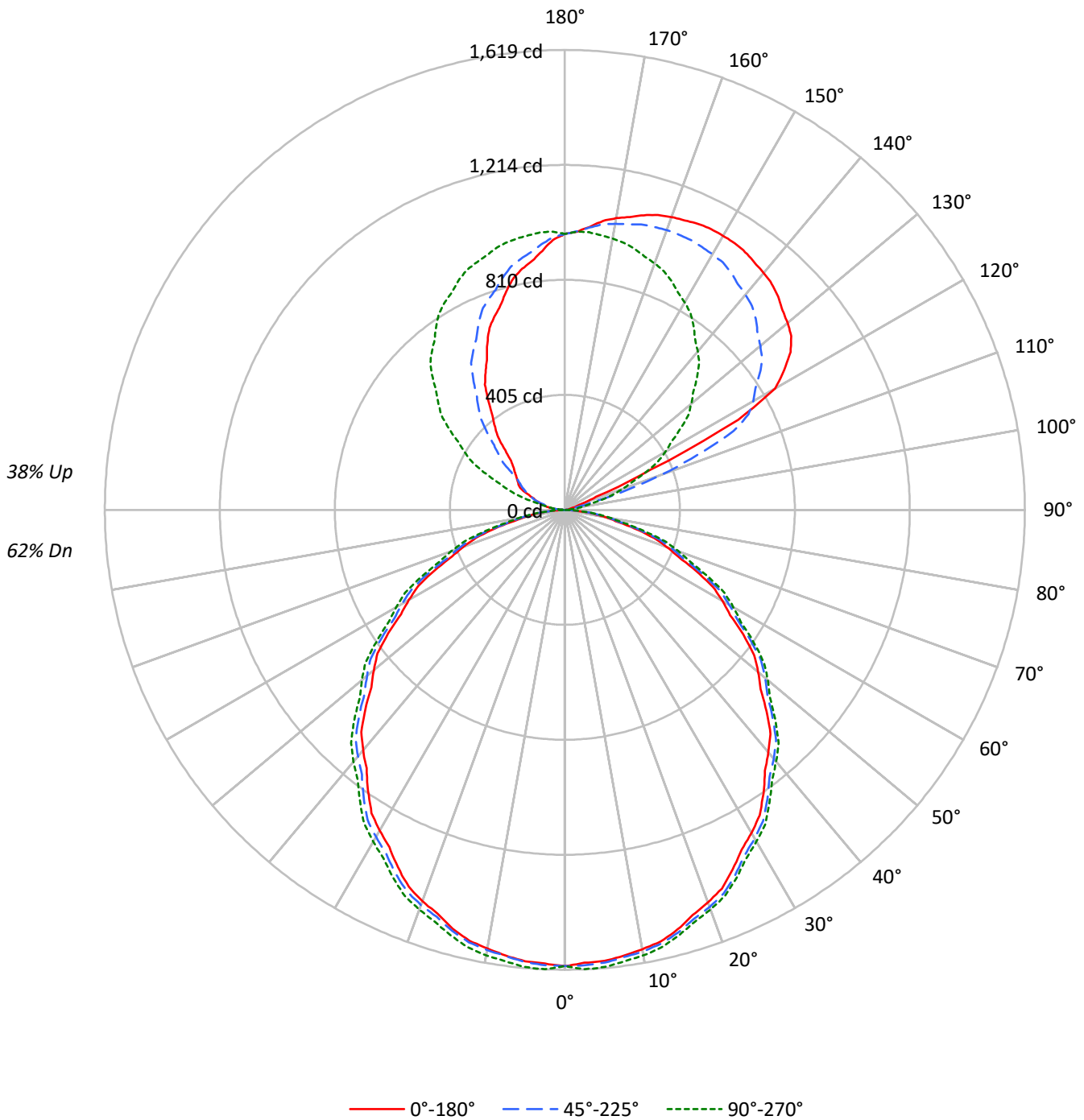
Lumens per Lamp: N/A
Luminaire Lumens: 7101.6 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 67.4
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	59	58	56	52
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	62	57	61	55	51	53	49	46	46	43	40	37
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	37	35	31
5	70	58	50	43	65	55	47	41	48	42	38	42	38	34	37	33	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	28	23	45	34	27	23	30	25	21	27	22	19	24	20	17	15

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	2.1
10°-20°	432.6	6.1
20°-30°	648.4	9.1
30°-40°	771.1	10.9
40°-50°	789.6	11.1
50°-60°	704.1	9.9
60°-70°	525.9	7.4
70°-80°	288.2	4.1
80°-90°	68.0	1.0
90°-100°	24.5	0.3
100°-110°	113.6	1.6
110°-120°	331.2	4.7
120°-130°	481.2	6.8
130°-140°	514.9	7.3
140°-150°	492.6	6.9
150°-160°	406.2	5.7
160°-170°	265.7	3.7
170°-180°	92.1	1.3
0°-30°	1232.8	17.4
0°-40°	2004.0	28.2
0°-60°	3497.6	49.3
0°-90°	4379.7	61.7
90°-120°	469.2	6.6
90°-150°	1958.0	27.6
90°-180°	2722.0	38.3
0°-180°	7101.6	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°	2	2	1	4	7	2
95°	7	9	18	30	27	8
105°	30	88	126	80	87	37
115°	333	656	315	151	166	391
125°	970	838	497	230	210	857
135°	1062	950	657	387	297	819
145°	1108	1020	790	563	470	694
155°	1111	1048	888	720	646	513
165°	1074	1040	950	846	796	305
175°	1000	998	981	939	915	97
180°	971	971	971	971	971	



TEST NUMBER: P511808

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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°	4.6	5.3	9.5	17.0	15.0	18.6	15.5	11.9	12.0
90°	1.8	1.8	1.8	0.9	0.9	1.8	3.7	6.4	7.3
92.5°	3.3	4.0	4.0	4.6	5.3	10.5	7.3	8.6	8.8
95°	7.3	7.3	9.1	21.8	18.3	27.2	30.1	28.3	27.4
97.5°	12.1	12.9	17.7	57.3	41.1	36.4	49.7	53.1	49.9
100°	16.4	17.3	26.5	90.6	59.3	46.8	54.8	64.9	66.7
102.5°	21.5	23.2	41.1	139.7	83.4	59.5	62.8	72.2	74.7
105°	30.1	34.6	87.6	231.3	126.0	78.7	80.3	83.2	86.7
107.5°	46.7	62.8	222.6	328.4	178.4	103.2	106.8	104.3	104.4
110°	65.7	99.7	364.3	384.2	216.4	122.6	121.4	119.5	116.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	119.1	208.7	507.5	433.7	256.6	143.5	133.1	141.4	135.9
115°	333.3	505.5	655.5	501.6	315.0	179.3	150.6	162.6	166.2
117.5°	687.3	765.3	729.3	561.9	370.9	221.1	167.4	176.0	181.9
120°	854.6	851.9	765.1	599.2	408.1	251.9	179.9	185.4	189.9
122.5°	915.9	890.4	795.1	632.8	443.9	284.8	196.7	193.5	198.7
125°	969.6	934.8	838.1	678.8	496.7	335.1	230.1	206.4	210.0
127.5°	1004.5	966.3	875.0	721.0	547.8	388.4	274.3	226.9	222.6
130°	1023.5	986.0	898.4	746.7	580.7	422.7	304.9	247.2	236.5
132.5°	1039.6	1004.2	920.3	771.7	612.8	457.7	337.8	272.6	256.9
135°	1061.8	1027.9	950.4	808.2	657.4	508.3	387.1	319.0	296.7
137.5°	1078.8	1047.9	974.2	841.0	700.6	558.2	438.8	370.3	347.5
140°	1088.3	1058.9	988.8	861.6	727.7	590.2	473.9	404.0	382.6
142.5°	1097.1	1068.3	1001.2	880.0	753.2	620.8	509.6	438.3	416.9
145°	1107.5	1079.8	1019.8	906.7	789.8	666.6	563.3	490.7	470.2
147.5°	1112.4	1086.9	1033.2	930.5	822.4	708.9	613.2	543.5	522.8
150°	1113.9	1089.8	1039.0	944.5	843.6	736.5	644.6	579.3	557.9
152.5°	1114.6	1089.8	1043.4	956.4	862.6	761.2	675.3	613.6	593.6
155°	1111.1	1088.8	1048.1	970.5	888.4	796.4	719.5	663.4	645.5
157.5°	1103.1	1086.7	1048.9	982.4	909.9	829.4	761.5	710.1	693.3
160°	1096.5	1082.2	1048.1	989.1	923.1	849.0	787.0	740.1	724.0
162.5°	1087.8	1073.5	1044.5	992.2	934.7	867.1	811.1	766.5	753.2
165°	1073.7	1060.3	1039.9	996.9	950.4	894.2	845.5	806.9	796.2
167.5°	1055.8	1047.4	1029.9	998.8	963.0	917.5	876.9	845.4	836.3
170°	1042.7	1036.4	1022.6	998.2	969.6	931.2	896.6	868.1	861.9
172.5°	1025.9	1022.5	1013.1	995.4	974.7	943.5	914.1	889.3	883.1
175°	999.8	1001.5	997.9	991.3	980.6	959.2	938.6	921.1	914.8
177.5°	980.2	980.2	980.9	981.6	980.2	970.9	960.5	950.3	951.0
180°	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4

(END OF REPORT)