

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: P511804

Luminaire Tested: **SQW-F-075U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511804
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-835-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

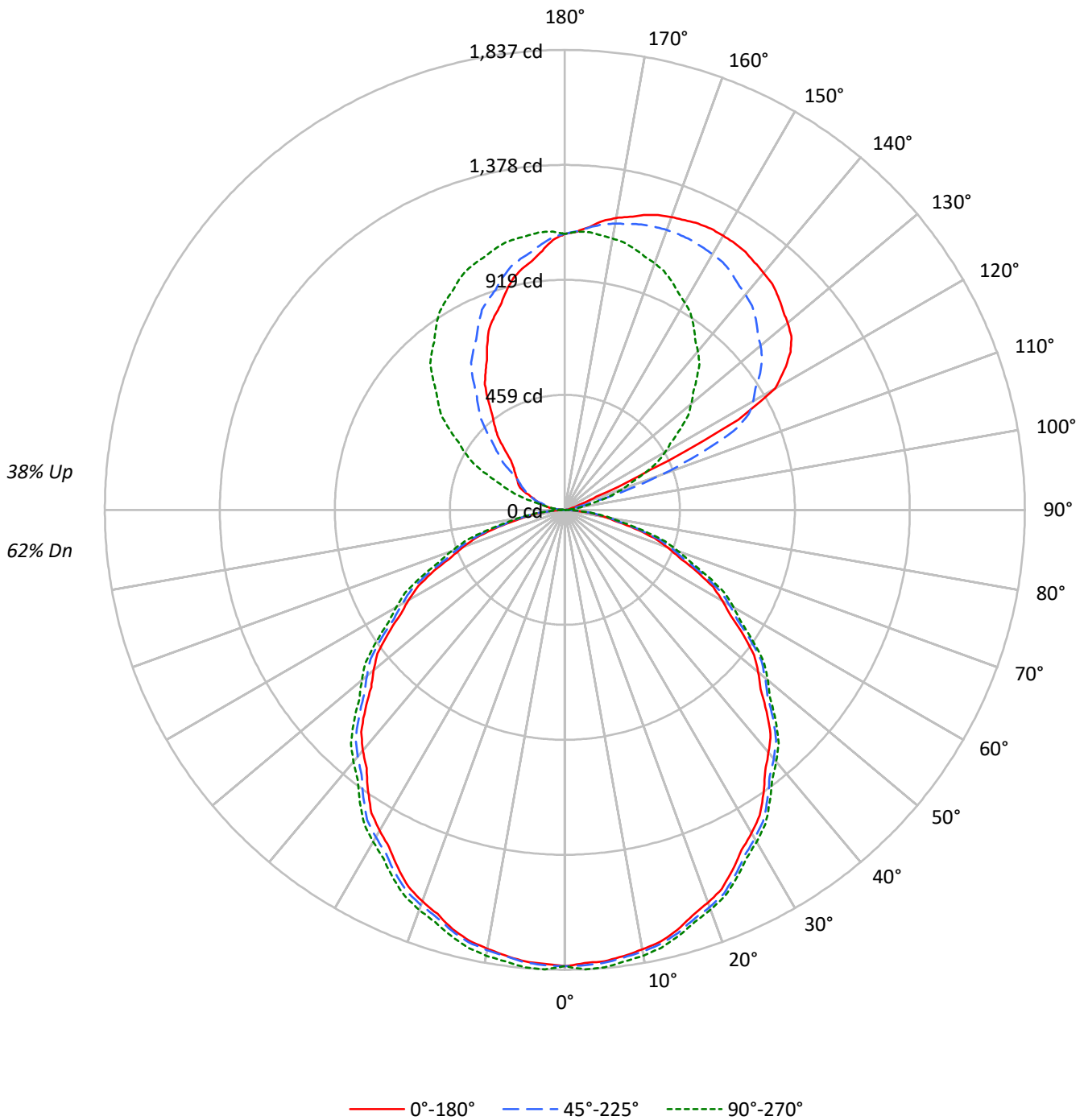
Lumens per Lamp: N/A
Luminaire Lumens: 8061.4 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

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				
RC	80					70					50					30				
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°	58868	58868	58868
5°	58672	59450	58704
10°	58465	59284	58366
15°	58070	58872	57936
20°	57388	58419	57182
25°	56509	57828	56189
30°	55596	57087	55148
35°	54519	56214	54007
40°	53325	55348	52861
45°	52015	54344	51467
50°	50639	53151	50036
55°	48980	51739	48474
60°	46888	50182	46436
65°	44241	48214	43935
70°	40882	45414	40599
75°	35933	41048	36057
80°	29010	34031	29754
85°	16673	23342	20007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	2.1
10°-20°	491.1	6.1
20°-30°	736.0	9.1
30°-40°	875.4	10.9
40°-50°	896.3	11.1
50°-60°	799.2	9.9
60°-70°	597.0	7.4
70°-80°	327.1	4.1
80°-90°	77.2	1.0
90°-100°	27.8	0.3
100°-110°	128.9	1.6
110°-120°	375.9	4.7
120°-130°	546.3	6.8
130°-140°	584.5	7.3
140°-150°	559.2	6.9
150°-160°	461.1	5.7
160°-170°	301.6	3.7
170°-180°	104.6	1.3
0°-30°	1399.5	17.4
0°-40°	2274.8	28.2
0°-60°	3970.4	49.3
0°-90°	4971.7	61.7
90°-120°	532.6	6.6
90°-150°	2222.6	27.6
90°-180°	3090.0	38.3
0°-180°	8061.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1823	1823	1823	1823	1823	
5°	1810	1816	1834	1814	1811	172
15°	1737	1749	1761	1741	1733	489
25°	1586	1610	1623	1602	1577	730
35°	1383	1411	1426	1402	1370	864
45°	1139	1175	1190	1161	1127	878
55°	870	904	919	894	861	776
65°	579	607	631	602	575	573
75°	288	310	329	307	289	307
85°	45	60	63	62	54	64
90°	2	2	1	4	8	2
95°	8	10	21	34	31	9
105°	34	100	143	91	98	42
115°	378	744	358	171	189	444
125°	1101	951	564	261	238	973
135°	1205	1079	746	439	337	930
145°	1257	1158	896	640	534	787
155°	1261	1190	1008	817	733	583
165°	1219	1180	1079	960	904	346
175°	1135	1133	1113	1065	1038	110
180°	1103	1103	1103	1103	1103	



TEST NUMBER: P511804

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0
2.5°	1811.8	1820.4	1821.4	1820.2	1837.4	1821.0	1821.4	1819.7	1815.0
5°	1810.0	1812.0	1816.0	1813.5	1834.0	1812.5	1814.0	1810.0	1811.0
7.5°	1797.4	1798.8	1803.2	1798.5	1819.2	1798.3	1798.8	1794.6	1796.8
10°	1783.0	1785.9	1792.0	1786.5	1808.0	1785.5	1786.0	1781.0	1780.0
12.5°	1767.0	1768.4	1776.0	1770.5	1790.4	1768.7	1770.0	1762.6	1763.2
15°	1737.0	1741.9	1749.0	1740.5	1761.0	1739.5	1741.0	1734.0	1733.0
17.5°	1698.0	1706.6	1713.8	1705.3	1725.6	1703.5	1704.8	1695.1	1692.0
20°	1670.0	1677.8	1689.0	1680.4	1700.0	1675.6	1680.0	1664.0	1664.0
22.5°	1638.8	1643.5	1659.4	1650.1	1670.4	1646.0	1649.6	1629.6	1630.4
25°	1586.0	1592.8	1610.0	1602.5	1623.0	1597.6	1602.0	1579.0	1577.0
27.5°	1530.2	1538.2	1556.0	1549.1	1569.4	1544.2	1547.4	1522.1	1519.0
30°	1491.0	1499.8	1516.0	1511.4	1531.0	1506.6	1509.0	1482.9	1479.0
32.5°	1447.8	1458.2	1474.4	1473.8	1490.2	1468.1	1468.2	1441.3	1436.6
35°	1383.0	1392.8	1411.0	1411.3	1426.0	1403.5	1402.0	1375.9	1370.0
37.5°	1313.8	1324.9	1343.6	1346.1	1359.4	1338.5	1332.4	1306.3	1301.2
40°	1265.0	1277.7	1298.0	1301.3	1313.0	1290.5	1286.0	1259.9	1254.0
42.5°	1216.2	1228.9	1249.2	1254.0	1264.2	1245.6	1236.4	1210.2	1203.6
45°	1139.0	1152.7	1175.0	1182.2	1190.0	1173.4	1161.0	1134.8	1127.0
47.5°	1060.8	1073.5	1096.8	1106.7	1111.6	1097.5	1084.6	1057.4	1048.8
50°	1008.0	1020.7	1044.0	1053.1	1058.0	1046.3	1031.0	1003.8	996.0
52.5°	952.8	965.5	988.8	999.5	1003.6	993.4	978.2	951.0	943.2
55°	870.0	880.8	904.0	917.0	919.0	912.2	894.0	867.8	861.0
57.5°	783.6	794.2	817.2	831.3	834.6	827.8	808.4	782.5	776.6
60°	726.0	735.8	758.0	772.1	777.0	770.2	750.0	724.9	719.0
62.5°	667.6	676.6	698.0	712.9	719.4	711.8	690.8	666.5	660.6
65°	579.0	586.8	607.0	627.1	631.0	622.2	602.0	578.9	575.0
67.5°	491.4	497.3	516.2	535.9	541.0	532.0	511.2	491.5	486.8
70°	433.0	438.9	457.0	475.1	481.0	471.2	452.0	433.9	430.0
72.5°	374.6	379.7	397.8	414.3	420.2	412.0	392.8	376.3	372.4
75°	288.0	293.9	310.0	325.1	329.0	323.1	307.0	292.9	289.0
77.5°	207.2	210.9	224.8	236.5	239.8	235.5	223.2	210.8	208.8
80°	156.0	158.9	172.0	182.0	183.0	181.0	172.0	162.0	160.0
82.5°	108.8	112.5	124.8	133.2	131.0	132.2	125.6	116.4	115.2
85°	45.0	47.0	60.0	67.9	63.0	67.9	62.0	55.0	54.0
87.5°	5.2	6.0	10.8	19.4	17.0	21.1	17.6	13.5	13.7
90°	2.1	2.1	2.1	1.0	1.0	2.0	4.1	7.3	8.3
92.5°	3.7	4.5	4.6	5.2	6.0	11.9	8.3	9.7	9.9
95°	8.3	8.3	10.4	24.8	20.7	30.9	34.2	32.1	31.1
97.5°	13.7	14.7	20.1	65.1	46.6	41.4	56.4	60.2	56.6
100°	18.7	19.7	30.1	102.8	67.4	53.2	62.2	73.6	75.7
102.5°	24.5	26.3	46.6	158.6	94.7	67.6	71.3	81.9	84.8
105°	34.2	39.3	99.5	262.6	143.0	89.3	91.2	94.4	98.5
107.5°	53.1	71.3	252.7	372.8	202.5	117.2	121.3	118.4	118.6
110°	74.6	113.1	413.5	436.1	245.6	139.2	137.8	135.7	132.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	135.1	236.9	576.0	492.3	291.2	162.9	151.1	160.5	154.2
115°	378.3	573.9	744.1	569.4	357.6	203.5	171.0	184.6	188.6
117.5°	780.2	868.8	827.9	637.9	421.0	250.9	190.1	199.8	206.5
120°	970.1	967.0	868.5	680.1	463.3	285.9	204.2	210.5	215.6
122.5°	1039.7	1010.7	902.5	718.3	503.9	323.3	223.2	219.6	225.5
125°	1100.7	1061.1	951.4	770.5	563.8	380.4	261.2	234.3	238.4
127.5°	1140.3	1096.9	993.3	818.4	621.8	440.9	311.3	257.5	252.7
130°	1161.8	1119.3	1019.8	847.6	659.2	479.8	346.2	280.6	268.4
132.5°	1180.1	1139.9	1044.7	876.0	695.6	519.5	383.5	309.5	291.6
135°	1205.3	1166.8	1078.9	917.5	746.2	577.0	439.4	362.2	336.8
137.5°	1224.6	1189.6	1105.9	954.6	795.3	633.6	498.1	420.4	394.5
140°	1235.4	1202.0	1122.4	978.0	826.0	670.0	537.9	458.6	434.3
142.5°	1245.4	1212.7	1136.5	998.9	855.0	704.7	578.5	497.5	473.2
145°	1257.2	1225.8	1157.7	1029.3	896.5	756.7	639.5	557.1	533.8
147.5°	1262.8	1233.8	1172.8	1056.2	933.6	804.7	696.1	617.0	593.5
150°	1264.4	1237.1	1179.4	1072.2	957.6	836.0	731.7	657.6	633.2
152.5°	1265.3	1237.1	1184.4	1085.6	979.2	864.1	766.5	696.6	673.9
155°	1261.3	1236.0	1189.8	1101.7	1008.4	904.1	816.7	753.0	732.7
157.5°	1252.2	1233.5	1190.6	1115.2	1032.9	941.5	864.4	806.1	787.1
160°	1244.7	1228.5	1189.8	1122.8	1047.8	963.7	893.4	840.1	821.9
162.5°	1234.8	1218.6	1185.7	1126.3	1061.1	984.3	920.7	870.0	855.0
165°	1218.8	1203.6	1180.5	1131.6	1078.9	1015.1	959.7	915.9	903.8
167.5°	1198.5	1189.0	1169.1	1133.7	1093.2	1041.5	995.4	959.7	949.4
170°	1183.6	1176.5	1160.8	1133.1	1100.7	1057.1	1017.8	985.5	978.4
172.5°	1164.5	1160.7	1150.0	1130.0	1106.5	1071.0	1037.7	1009.5	1002.4
175°	1134.9	1136.9	1132.8	1125.3	1113.1	1088.8	1065.4	1045.6	1038.5
177.5°	1112.7	1112.7	1113.5	1114.3	1112.7	1102.2	1090.3	1078.7	1079.5
180°	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7

(END OF REPORT)