

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: P511803

Luminaire Tested: **SQW-F-075U-125D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511803
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-830-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

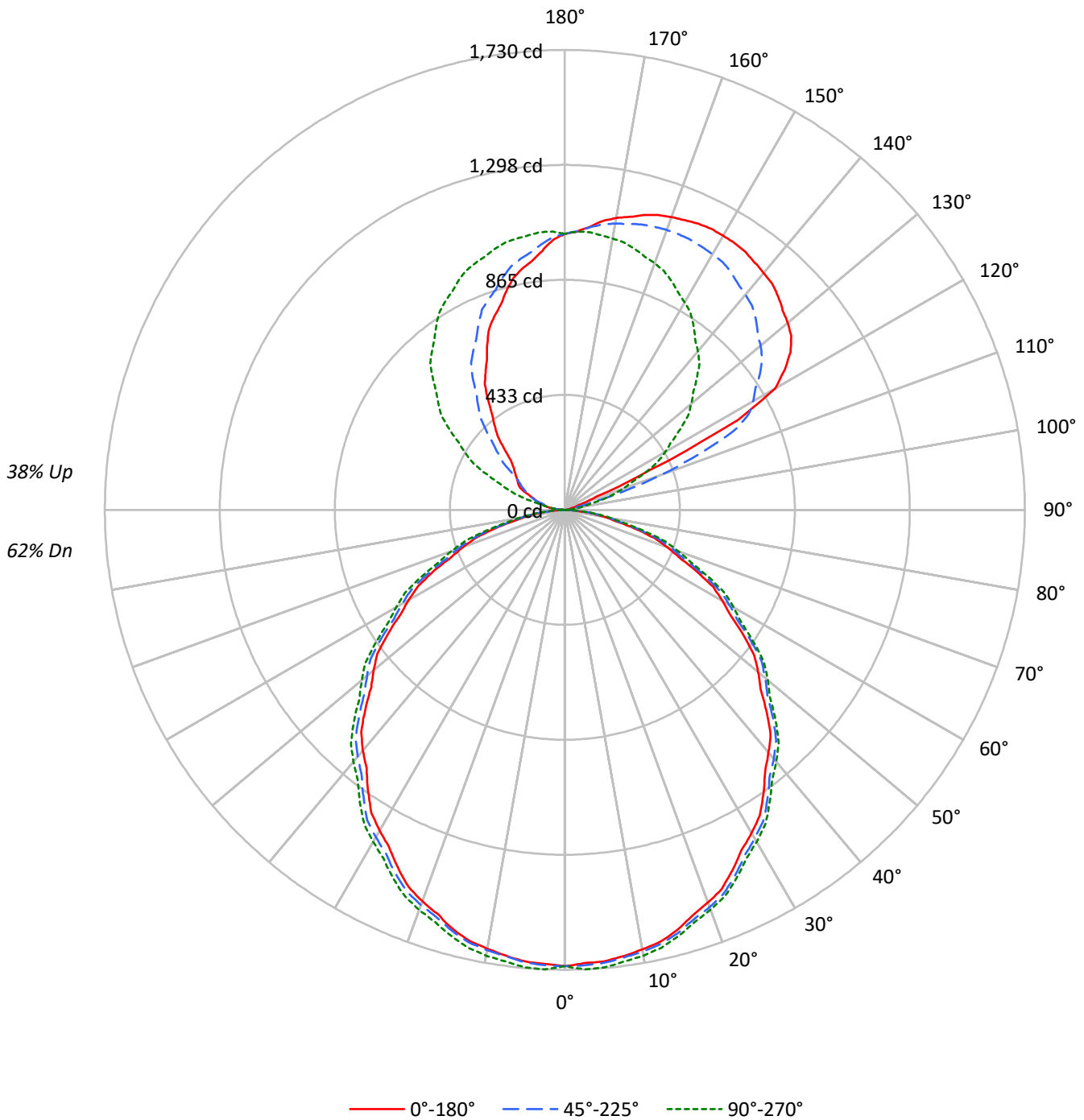
Lumens per Lamp: N/A
Luminaire Lumens: 7591.8 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

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				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°	55439	55439	55439
5°	55255	55988	55284
10°	55058	55832	54966
15°	54686	55442	54559
20°	54045	55017	53852
25°	53217	54457	52914
30°	52355	53761	51934
35°	51342	52939	50861
40°	50218	52123	49780
45°	48983	51180	48467
50°	47690	50056	47123
55°	46126	48727	45647
60°	44156	47256	43730
65°	41666	45402	41376
70°	38502	42770	38229
75°	33837	38653	33961
80°	27318	32041	28024
85°	15710	21971	18859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	2.1
10°-20°	462.5	6.1
20°-30°	693.1	9.1
30°-40°	824.4	10.9
40°-50°	844.1	11.1
50°-60°	752.6	9.9
60°-70°	562.2	7.4
70°-80°	308.0	4.1
80°-90°	72.7	1.0
90°-100°	26.2	0.3
100°-110°	121.4	1.6
110°-120°	354.0	4.7
120°-130°	514.4	6.8
130°-140°	550.4	7.3
140°-150°	526.6	6.9
150°-160°	434.2	5.7
160°-170°	284.0	3.7
170°-180°	98.5	1.3
0°-30°	1317.9	17.4
0°-40°	2142.3	28.2
0°-60°	3739.0	49.3
0°-90°	4682.0	61.7
90°-120°	501.6	6.6
90°-150°	2093.1	27.6
90°-180°	2910.0	38.3
0°-180°	7591.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1717	1717	1717	1717	1717	
5°	1705	1710	1727	1708	1706	162
15°	1636	1647	1658	1640	1632	461
25°	1494	1516	1528	1509	1485	688
35°	1302	1329	1343	1320	1290	814
45°	1073	1106	1121	1093	1061	827
55°	819	851	866	842	811	731
65°	545	572	594	567	542	540
75°	271	292	310	289	272	289
85°	42	56	59	58	51	60
90°	2	2	1	4	8	2
95°	8	10	20	32	29	8
105°	32	94	135	86	93	39
115°	356	701	337	161	178	418
125°	1036	896	531	246	224	917
135°	1135	1016	703	414	317	876
145°	1184	1090	844	602	503	741
155°	1188	1120	950	769	690	549
165°	1148	1112	1016	904	851	326
175°	1069	1067	1048	1003	978	104
180°	1038	1038	1038	1038	1038	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1706.3	1714.4	1715.3	1714.2	1730.4	1714.9	1715.3	1713.7	1709.3
5°	1704.6	1706.4	1710.2	1707.8	1727.2	1706.9	1708.3	1704.6	1705.5
7.5°	1692.7	1694.0	1698.2	1693.7	1713.2	1693.5	1694.0	1690.1	1692.1
10°	1679.1	1681.9	1687.6	1682.4	1702.7	1681.5	1682.0	1677.2	1676.3
12.5°	1664.1	1665.3	1672.5	1667.3	1686.1	1665.7	1666.9	1659.9	1660.5
15°	1635.8	1640.4	1647.1	1639.1	1658.4	1638.2	1639.6	1633.0	1632.0
17.5°	1599.1	1607.2	1614.0	1605.9	1625.1	1604.3	1605.5	1596.4	1593.4
20°	1572.7	1580.1	1590.6	1582.5	1601.0	1577.9	1582.1	1567.1	1567.1
22.5°	1543.3	1547.7	1562.7	1553.9	1573.1	1550.1	1553.5	1534.7	1535.4
25°	1493.6	1500.1	1516.2	1509.1	1528.4	1504.5	1508.7	1487.0	1485.1
27.5°	1441.1	1448.6	1465.4	1458.8	1478.0	1454.2	1457.3	1433.5	1430.5
30°	1404.1	1412.4	1427.7	1423.4	1441.8	1418.8	1421.1	1396.5	1392.8
32.5°	1363.5	1373.2	1388.5	1387.9	1403.4	1382.6	1382.7	1357.3	1352.9
35°	1302.4	1311.6	1328.8	1329.1	1342.9	1321.7	1320.3	1295.7	1290.2
37.5°	1237.3	1247.8	1265.3	1267.7	1280.2	1260.5	1254.8	1230.2	1225.4
40°	1191.3	1203.3	1222.4	1225.5	1236.5	1215.3	1211.1	1186.5	1180.9
42.5°	1145.3	1157.3	1176.4	1181.0	1190.6	1173.1	1164.4	1139.7	1133.5
45°	1072.6	1085.5	1106.5	1113.3	1120.7	1105.0	1093.4	1068.7	1061.3
47.5°	999.0	1011.0	1032.9	1042.2	1046.8	1033.6	1021.4	995.8	987.7
50°	949.3	961.2	983.2	991.8	996.4	985.3	970.9	945.3	938.0
52.5°	897.3	909.3	931.2	941.3	945.1	935.6	921.2	895.6	888.3
55°	819.3	829.4	851.3	863.6	865.5	859.0	841.9	817.3	810.8
57.5°	738.0	747.9	769.6	782.8	786.0	779.5	761.3	736.9	731.4
60°	683.7	692.9	713.8	727.1	731.7	725.3	706.3	682.6	677.1
62.5°	628.7	637.2	657.3	671.4	677.5	670.3	650.6	627.6	622.1
65°	545.3	552.6	571.6	590.6	594.2	586.0	566.9	545.2	541.5
67.5°	462.8	468.3	486.1	504.7	509.5	501.0	481.4	462.9	458.4
70°	407.8	413.3	430.4	447.5	453.0	443.8	425.7	408.6	404.9
72.5°	352.8	357.6	374.6	390.2	395.7	388.0	369.9	354.4	350.7
75°	271.2	276.7	291.9	306.2	309.8	304.3	289.1	275.8	272.2
77.5°	195.1	198.6	211.7	222.7	225.8	221.8	210.2	198.5	196.6
80°	146.9	149.7	162.0	171.4	172.3	170.5	162.0	152.5	150.7
82.5°	102.5	106.0	117.5	125.4	123.4	124.5	118.3	109.6	108.5
85°	42.4	44.2	56.5	63.9	59.3	63.9	58.4	51.8	50.9
87.5°	4.9	5.6	10.2	18.2	16.0	19.9	16.6	12.7	12.9
90°	2.0	2.0	2.0	1.0	1.0	1.9	3.9	6.9	7.8
92.5°	3.5	4.3	4.3	4.9	5.7	11.2	7.8	9.2	9.4
95°	7.8	7.8	9.8	23.3	19.5	29.1	32.2	30.2	29.3
97.5°	12.9	13.8	18.9	61.3	43.9	39.0	53.1	56.7	53.3
100°	17.6	18.5	28.3	96.8	63.4	50.1	58.6	69.3	71.3
102.5°	23.0	24.8	43.9	149.3	89.2	63.6	67.2	77.2	79.8
105°	32.2	37.0	93.7	247.3	134.7	84.1	85.9	88.9	92.7
107.5°	50.0	67.2	238.0	351.0	190.7	110.4	114.2	111.5	111.7
110°	70.3	106.5	389.4	410.7	231.3	131.1	129.8	127.8	124.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	127.3	223.1	542.5	463.6	274.3	153.4	142.3	151.2	145.2
115°	356.3	540.4	700.8	536.2	336.7	191.7	161.0	173.8	177.6
117.5°	734.8	818.2	779.7	600.7	396.5	236.3	179.0	188.1	194.4
120°	913.6	910.7	817.9	640.5	436.3	269.3	192.3	198.2	203.0
122.5°	979.2	951.9	849.9	676.5	474.5	304.5	210.2	206.9	212.4
125°	1036.5	999.3	896.0	725.6	531.0	358.2	246.0	220.7	224.5
127.5°	1073.8	1033.0	935.4	770.8	585.6	415.2	293.2	242.5	238.0
130°	1094.1	1054.1	960.4	798.3	620.8	451.8	326.0	264.2	252.8
132.5°	1111.3	1073.5	983.8	825.0	655.1	489.2	361.1	291.5	274.7
135°	1135.1	1098.9	1016.1	864.0	702.7	543.4	413.8	341.1	317.2
137.5°	1153.3	1120.3	1041.4	899.0	749.0	596.7	469.1	395.9	371.5
140°	1163.4	1131.9	1057.0	921.1	777.9	630.9	506.6	431.9	409.0
142.5°	1172.8	1142.1	1070.3	940.7	805.2	663.6	544.8	468.6	445.7
145°	1183.9	1154.3	1090.2	969.3	844.3	712.6	602.2	524.6	502.7
147.5°	1189.2	1161.9	1104.5	994.7	879.2	757.8	655.5	581.0	558.9
150°	1190.8	1165.0	1110.7	1009.7	901.9	787.3	689.1	619.3	596.4
152.5°	1191.5	1165.0	1115.4	1022.4	922.2	813.7	721.9	656.0	634.6
155°	1187.8	1164.0	1120.5	1037.5	949.7	851.4	769.1	709.1	690.1
157.5°	1179.2	1161.7	1121.3	1050.2	972.7	886.6	814.0	759.1	741.2
160°	1172.2	1156.9	1120.5	1057.4	986.8	907.6	841.3	791.2	774.0
162.5°	1162.8	1147.6	1116.6	1060.7	999.3	926.9	867.1	819.4	805.2
165°	1147.8	1133.5	1111.7	1065.7	1016.1	955.9	903.8	862.6	851.1
167.5°	1128.7	1119.7	1101.0	1067.7	1029.5	980.9	937.4	903.8	894.0
170°	1114.6	1108.0	1093.2	1067.1	1036.5	995.5	958.5	928.1	921.4
172.5°	1096.7	1093.0	1083.0	1064.2	1042.0	1008.6	977.2	950.7	944.0
175°	1068.8	1070.7	1066.8	1059.7	1048.3	1025.4	1003.4	984.7	978.0
177.5°	1047.9	1047.9	1048.7	1049.4	1047.9	1037.9	1026.8	1015.9	1016.6
180°	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5

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