

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: P511797

Luminaire Tested: **SQW-F-075U-100D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511797
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-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

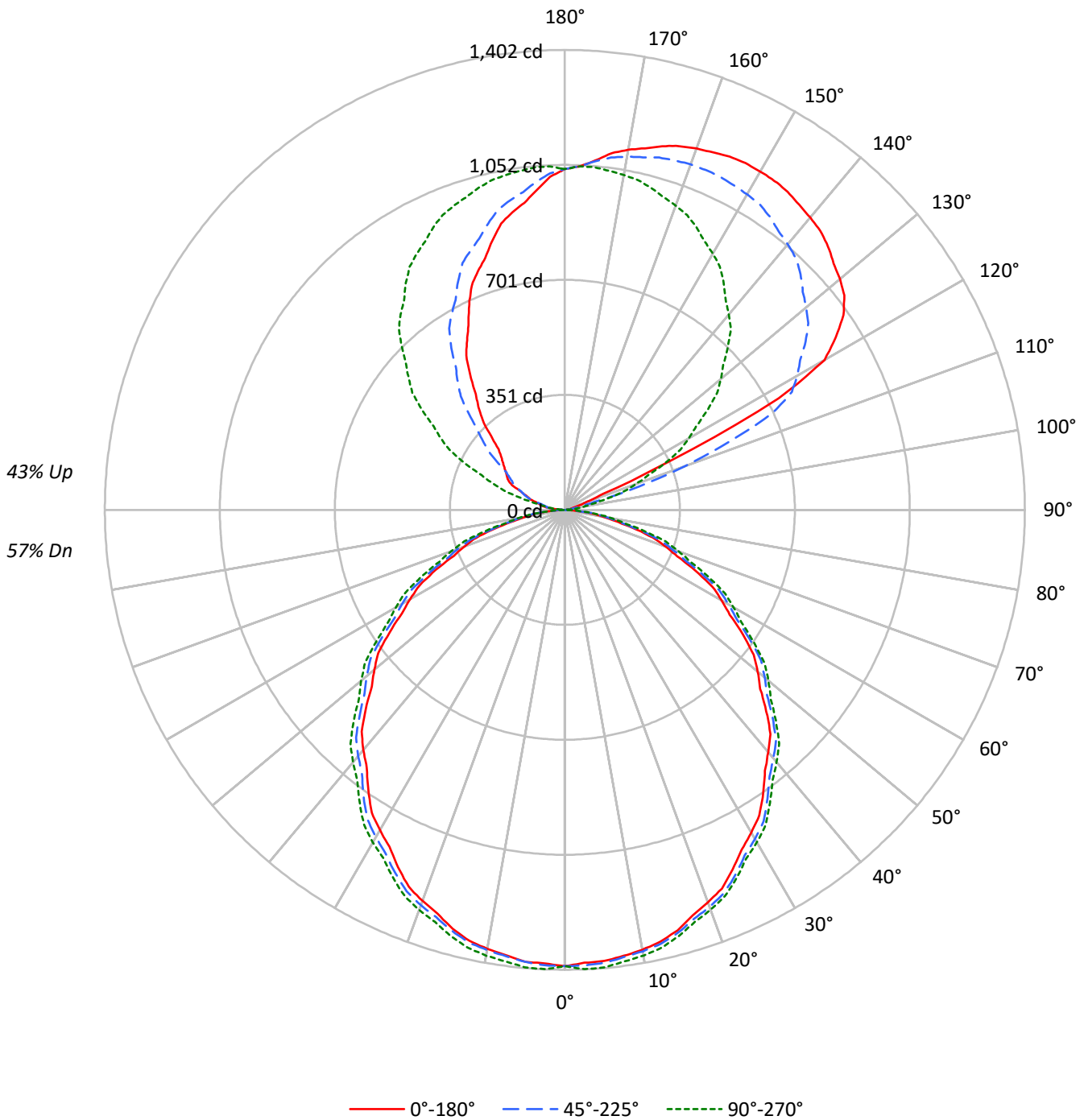
Lumens per Lamp: N/A
Luminaire Lumens: 6701.5 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.2
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				
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57		
1	99	95	91	87	92	88	85	82	76	74	71	65	63	62	55	54	52	48		
2	90	83	77	71	84	77	72	67	67	63	59	57	54	51	48	46	44	40		
3	82	73	65	59	76	68	61	56	59	54	50	50	47	43	43	40	37	34		
4	75	64	56	50	70	60	53	47	52	47	42	45	41	37	38	35	32	29		
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	31	28	25		
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	25	22		
7	59	46	38	33	55	43	36	31	38	32	28	33	28	25	28	25	22	19		
8	55	42	34	29	51	40	32	27	35	29	25	30	26	22	26	22	19	17		
9	51	38	31	26	47	36	29	24	32	26	22	28	23	20	24	20	18	15		
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	44918	44918	44918
5°	44752	45362	44814
10°	44653	45240	44558
15°	44360	44958	44202
20°	43753	44595	43591
25°	43084	44124	42849
30°	42385	43649	42034
35°	41581	42989	41171
40°	40649	42318	40253
45°	39653	41544	39178
50°	38557	40687	38040
55°	37270	39550	36741
60°	35644	38376	35153
65°	33536	36844	33100
70°	30855	34764	30496
75°	26787	31491	27374
80°	21534	26090	22762
85°	11856	17784	15339



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	2.0
10°-20°	374.9	5.6
20°-30°	561.9	8.4
30°-40°	668.1	10.0
40°-50°	684.0	10.2
50°-60°	609.7	9.1
60°-70°	454.5	6.8
70°-80°	248.3	3.7
80°-90°	58.8	0.9
90°-100°	26.2	0.4
100°-110°	121.4	1.8
110°-120°	354.0	5.3
120°-130°	514.4	7.7
130°-140°	550.4	8.2
140°-150°	526.6	7.9
150°-160°	434.2	6.5
160°-170°	284.0	4.2
170°-180°	98.5	1.5
0°-30°	1068.3	15.9
0°-40°	1736.4	25.9
0°-60°	3030.1	45.2
0°-90°	3791.7	56.6
90°-120°	501.6	7.5
90°-150°	2093.1	31.2
90°-180°	2910.0	43.4
0°-180°	6701.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1391	1391	1391	1391	1391	
5°	1381	1386	1399	1383	1382	131
15°	1327	1334	1345	1329	1322	373
25°	1209	1229	1238	1222	1203	557
35°	1055	1076	1090	1069	1044	659
45°	868	895	910	884	858	670
55°	662	688	702	682	653	591
65°	439	460	482	457	433	434
75°	215	232	252	234	219	230
85°	32	44	48	49	41	47
90°	2	2	1	4	8	1
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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CATALOG NUMBER: SQW-F-075U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1391.0	1391.0	1391.0	1391.0	1391.0	1391.0	1391.0	1391.0	1391.0
2.5°	1381.9	1388.5	1390.2	1389.0	1401.5	1389.7	1389.4	1388.6	1384.2
5°	1380.6	1382.4	1386.2	1383.8	1399.4	1383.8	1383.4	1381.6	1382.5
7.5°	1371.6	1373.4	1375.5	1373.0	1388.7	1372.7	1372.5	1369.3	1370.2
10°	1361.8	1363.6	1366.5	1364.0	1379.7	1362.2	1362.7	1358.0	1358.9
12.5°	1348.2	1350.0	1355.2	1351.9	1366.8	1350.1	1350.6	1345.2	1345.4
15°	1326.9	1329.7	1334.5	1329.2	1344.8	1328.2	1328.8	1323.1	1322.2
17.5°	1296.6	1302.1	1307.9	1303.3	1317.3	1301.5	1302.2	1293.5	1291.1
20°	1273.2	1278.8	1288.3	1283.0	1297.7	1281.1	1282.7	1269.4	1268.5
22.5°	1249.9	1253.9	1265.7	1260.4	1275.1	1258.5	1259.3	1243.9	1243.7
25°	1209.2	1214.7	1229.0	1224.6	1238.4	1221.8	1222.4	1205.4	1202.6
27.5°	1167.6	1173.3	1187.7	1183.5	1197.7	1180.8	1181.9	1162.9	1157.4
30°	1136.7	1143.1	1158.3	1154.9	1170.6	1152.2	1151.8	1132.8	1127.3
32.5°	1103.5	1111.5	1126.7	1124.8	1138.9	1121.3	1119.4	1100.4	1094.9
35°	1054.8	1063.0	1076.4	1077.6	1090.5	1074.0	1068.9	1050.8	1044.4
37.5°	1002.0	1009.8	1024.2	1026.8	1039.3	1022.0	1014.8	998.5	991.1
40°	964.3	973.6	988.8	992.8	1003.9	987.3	979.4	962.3	954.9
42.5°	927.4	936.6	952.7	958.9	967.0	951.1	941.7	925.3	916.5
45°	868.3	877.5	894.7	903.3	909.7	895.0	884.3	867.1	857.9
47.5°	808.2	818.3	835.7	846.3	850.6	837.1	827.2	808.2	797.8
50°	767.5	777.7	795.8	807.1	809.9	797.9	787.3	768.2	757.2
52.5°	726.1	734.7	752.8	765.7	767.0	757.2	745.9	726.8	716.5
55°	662.0	671.3	688.4	703.5	702.5	696.1	681.8	662.8	652.6
57.5°	596.3	603.7	621.6	637.6	637.9	630.6	616.8	598.0	588.0
60°	551.9	559.2	576.3	592.4	594.2	586.9	571.6	553.5	544.3
62.5°	507.4	514.0	530.4	547.9	549.8	542.4	526.4	509.1	499.9
65°	438.9	444.4	460.5	478.5	482.2	473.9	456.7	441.5	433.2
67.5°	371.2	376.6	391.6	409.4	414.2	404.8	389.3	374.8	366.7
70°	326.8	331.4	345.6	362.7	368.2	358.1	345.6	330.4	323.0
72.5°	281.6	286.2	300.4	316.7	321.5	312.1	300.4	286.8	283.8
75°	214.7	219.3	231.7	248.7	252.4	244.1	233.6	221.3	219.4
77.5°	155.0	158.0	169.1	180.9	183.3	178.3	172.0	161.0	160.1
80°	115.8	119.5	130.0	139.4	140.3	137.6	132.8	123.3	122.4
82.5°	81.2	84.1	93.0	101.7	100.4	100.6	97.4	88.7	88.5
85°	32.0	34.8	44.3	51.7	48.0	50.8	49.0	42.4	41.4
87.5°	3.4	4.1	7.9	15.2	13.8	16.2	14.3	11.2	11.4
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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