

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: P522557

Luminaire Tested: **SQW-F-075U-100D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522557
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-100D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

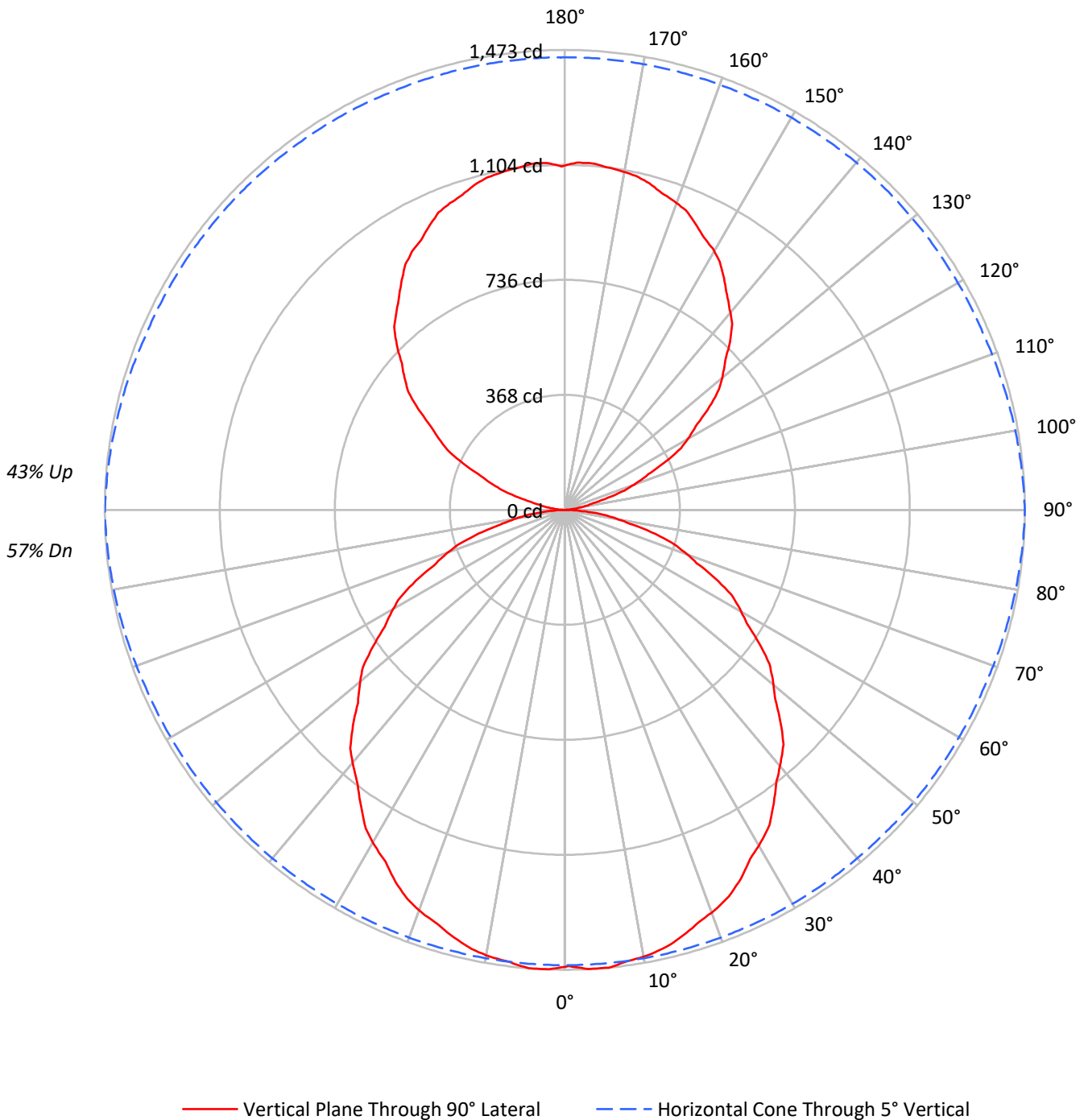
Lumens per Lamp: N/A
Luminaire Lumens: 7140.6 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 69.3
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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57				57
1	99	95	91	87	92	88	85	82	76	74	71	65	64	62	55	54	53	48				48
2	90	83	76	71	84	77	72	67	67	63	59	57	54	51	48	46	44	40				40
3	82	72	65	59	76	68	61	56	59	54	49	50	47	43	43	40	37	34				34
4	75	64	56	50	70	60	53	47	52	46	42	45	40	37	38	35	32	29				29
5	69	57	49	43	64	53	46	40	47	41	36	40	36	32	34	31	28	25				25
6	64	51	43	37	59	48	40	35	42	36	31	36	32	28	31	27	24	22				22
7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	25	22	19				19
8	54	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17				17
9	51	38	31	25	47	36	29	24	32	26	22	28	23	20	24	20	17	15				15
10	47	35	28	23	44	33	26	22	29	24	20	26	21	18	22	19	16	14				14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23594	23594	23594
5°	23634	23866	23485
10°	23587	23789	23302
15°	23604	23654	23124
20°	23400	23522	22783
25°	23147	23313	22418
30°	22906	23040	22009
35°	22641	22702	21632
40°	22333	22419	21189
45°	21925	22087	20685
50°	21491	21697	20102
55°	20856	21258	19443
60°	20250	20780	18661
65°	19496	20202	17734
70°	18477	19204	16400
75°	17199	17898	14510
80°	15435	15249	12004
85°	11967	12153	7595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.9
10°-20°	395.0	5.5
20°-30°	594.1	8.3
30°-40°	709.8	9.9
40°-50°	729.8	10.2
50°-60°	657.0	9.2
60°-70°	500.3	7.0
70°-80°	285.2	4.0
80°-90°	74.9	1.0
90°-100°	27.8	0.4
100°-110°	123.2	1.7
110°-120°	354.0	5.0
120°-130°	539.2	7.6
130°-140°	585.3	8.2
140°-150°	559.7	7.8
150°-160°	461.1	6.5
160°-170°	301.7	4.2
170°-180°	104.4	1.5
0°-30°	1127.4	15.8
0°-40°	1837.2	25.7
0°-60°	3224.0	45.2
0°-90°	4084.4	57.2
90°-120°	504.9	7.1
90°-150°	2189.0	30.7
90°-180°	3056.0	42.8
0°-180°	7140.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1461	1461	1461	1461	1461	
5°	1458	1456	1472	1452	1449	139
15°	1412	1412	1415	1395	1383	398
25°	1299	1311	1309	1281	1258	599
35°	1149	1162	1152	1123	1098	718
45°	960	967	967	930	906	740
55°	741	757	755	717	691	665
65°	510	524	529	486	464	504
75°	276	284	287	253	233	292
85°	65	70	66	54	41	76
90°	0	0	0	0	0	2
95°	4	6	20	43	42	6
105°	28	75	141	97	104	32
115°	265	698	357	167	188	367
125°	1054	918	569	282	240	926
135°	1162	1052	754	467	372	897
145°	1216	1132	900	665	568	762
155°	1229	1178	1007	834	760	569
165°	1203	1172	1080	970	923	341
175°	1132	1135	1113	1064	1038	109
180°	1100	1100	1100	1100	1100	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3
2.5°	1459.6	1462.8	1461.3	1459.1	1471.9	1457.5	1459.6	1457.8	1449.8
5°	1458.2	1457.2	1456.1	1457.5	1472.5	1453.5	1452.0	1449.0	1449.0
7.5°	1452.6	1451.6	1450.4	1446.2	1458.4	1439.5	1440.1	1437.0	1432.8
10°	1438.7	1441.7	1439.7	1438.0	1451.0	1429.0	1429.5	1426.3	1421.3
12.5°	1432.2	1432.0	1430.7	1424.8	1437.1	1415.0	1414.7	1410.8	1407.4
15°	1412.1	1411.1	1412.1	1402.1	1415.1	1395.1	1394.6	1386.4	1383.4
17.5°	1383.2	1384.8	1386.2	1376.1	1387.9	1364.0	1363.7	1354.0	1352.2
20°	1361.9	1361.9	1369.0	1358.0	1369.0	1346.0	1346.5	1327.0	1326.0
22.5°	1336.4	1338.0	1346.1	1335.0	1344.4	1320.6	1319.4	1303.1	1298.9
25°	1299.3	1300.4	1310.6	1297.5	1308.6	1283.5	1280.9	1259.4	1258.4
27.5°	1259.0	1258.6	1270.9	1255.7	1264.5	1242.3	1239.1	1216.3	1214.9
30°	1228.6	1226.6	1243.0	1227.8	1235.8	1212.8	1211.2	1183.5	1180.5
32.5°	1196.7	1195.5	1210.2	1197.4	1203.0	1181.6	1173.5	1150.7	1149.3
35°	1148.7	1144.7	1162.0	1148.8	1151.8	1131.7	1123.1	1099.5	1097.5
37.5°	1094.0	1092.2	1104.9	1096.6	1101.4	1080.3	1065.9	1043.3	1042.1
40°	1059.6	1054.6	1068.8	1059.7	1063.7	1042.6	1029.8	1007.3	1005.3
42.5°	1017.8	1017.6	1029.4	1022.0	1026.8	1004.9	988.9	967.1	964.3
45°	960.2	957.2	967.3	965.3	967.3	944.3	930.4	905.9	905.9
47.5°	896.6	894.6	908.3	902.8	905.6	885.6	867.7	845.7	842.1
50°	855.6	853.6	864.9	861.8	863.8	843.8	825.9	802.3	800.3
52.5°	813.0	811.0	823.1	819.2	820.4	802.8	783.3	762.1	758.5
55°	740.9	745.9	757.3	756.2	755.2	737.2	717.3	695.7	690.7
57.5°	678.8	680.8	688.8	690.4	687.0	675.2	650.9	629.9	624.7
60°	627.1	633.1	644.6	644.5	643.5	628.5	602.5	584.0	577.9
62.5°	579.6	586.4	596.2	598.6	597.6	579.4	557.4	539.7	532.0
65°	510.3	515.3	523.6	528.8	528.8	508.7	485.7	469.2	464.2
67.5°	438.2	444.2	451.9	458.0	455.2	436.5	416.7	401.7	393.3
70°	391.4	397.5	402.7	408.8	406.8	389.8	369.9	353.4	347.4
72.5°	343.9	350.7	355.2	360.4	357.6	340.6	323.2	308.3	300.7
75°	275.7	277.7	283.8	287.9	286.9	269.9	253.1	240.6	232.6
77.5°	208.6	209.4	214.6	216.3	211.5	200.7	187.1	177.3	169.3
80°	166.0	166.0	171.1	172.0	164.0	157.9	144.5	137.1	129.1
82.5°	122.6	123.4	130.1	130.2	123.8	117.0	107.6	99.5	94.7
85°	64.6	65.6	69.7	72.6	65.6	61.6	54.3	46.0	41.0
87.5°	17.2	18.0	23.8	26.9	20.5	20.5	13.1	9.0	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	1.6	2.5	4.1	15.3	17.2	15.6	14.8
95°	4.1	4.1	6.1	19.5	19.5	31.5	43.0	42.0	42.0
97.5°	9.2	10.2	14.3	59.3	44.3	43.1	61.5	67.6	68.2
100°	13.3	14.3	22.5	96.6	65.6	55.6	65.6	80.0	83.0
102.5°	18.2	20.0	35.7	152.6	92.6	66.6	77.1	87.4	90.4
105°	27.7	30.7	74.8	255.6	141.4	88.3	97.3	102.5	103.5
107.5°	41.6	52.8	204.7	359.6	200.6	116.9	122.1	125.7	126.9
110°	56.4	80.4	355.6	422.3	244.9	138.7	135.3	144.4	142.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	94.9	165.4	522.0	473.7	289.2	164.5	147.6	162.5	163.8
115°	265.4	455.8	697.8	547.0	356.6	209.3	167.0	181.5	187.5
117.5°	666.1	792.5	790.5	614.7	421.4	262.1	190.4	197.3	204.1
120°	895.6	914.6	837.2	660.6	463.2	299.9	210.1	207.1	213.1
122.5°	980.9	965.4	872.4	700.8	505.8	339.3	235.5	217.8	223.0
125°	1054.4	1024.4	918.2	758.1	568.7	397.4	281.8	240.8	239.8
127.5°	1095.2	1063.8	962.8	807.9	626.5	457.8	334.5	273.4	264.2
130°	1114.9	1085.8	994.0	838.4	665.0	498.7	373.0	302.0	287.9
132.5°	1138.7	1107.2	1016.1	869.7	701.9	537.2	411.5	336.4	319.9
135°	1162.0	1133.0	1052.4	910.5	754.2	593.9	467.3	393.0	372.0
137.5°	1182.9	1156.3	1085.6	942.6	801.3	649.6	526.3	454.0	428.3
140°	1196.9	1167.8	1099.5	967.3	830.0	684.7	565.6	493.5	473.4
142.5°	1201.8	1184.0	1114.3	988.0	862.0	718.3	605.0	530.4	512.0
145°	1216.3	1204.3	1132.3	1012.9	899.7	768.5	665.0	587.7	567.7
147.5°	1225.8	1207.7	1148.9	1039.8	936.6	813.4	719.6	645.4	626.7
150°	1226.6	1212.6	1162.0	1056.4	961.2	846.0	753.2	683.1	666.1
152.5°	1233.2	1215.9	1168.6	1070.4	979.2	873.6	786.8	721.6	703.0
155°	1228.6	1216.6	1178.4	1088.5	1007.3	909.1	834.1	776.4	760.3
157.5°	1228.6	1213.8	1179.7	1102.5	1034.4	948.2	878.4	825.0	813.0
160°	1220.4	1214.4	1180.5	1112.4	1048.3	970.1	907.9	859.4	843.3
162.5°	1217.2	1207.1	1182.1	1119.1	1060.6	988.0	933.3	887.3	875.3
165°	1203.0	1194.0	1172.3	1122.1	1080.1	1019.9	970.4	929.3	923.3
167.5°	1186.8	1179.8	1165.5	1127.0	1093.0	1043.9	1002.2	969.0	960.8
170°	1175.4	1164.3	1159.0	1129.6	1099.5	1058.4	1022.7	992.8	983.7
172.5°	1155.7	1154.3	1149.9	1123.3	1105.3	1071.4	1041.5	1014.1	1008.3
175°	1132.3	1132.3	1135.4	1118.9	1112.8	1084.8	1063.7	1047.1	1038.0
177.5°	1105.3	1106.1	1112.6	1111.8	1112.6	1096.6	1090.5	1074.9	1073.3
180°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5

(END OF REPORT)