

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: P522555

Luminaire Tested: **SQW-F-075U-100D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522555  
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 (4000K)  
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 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

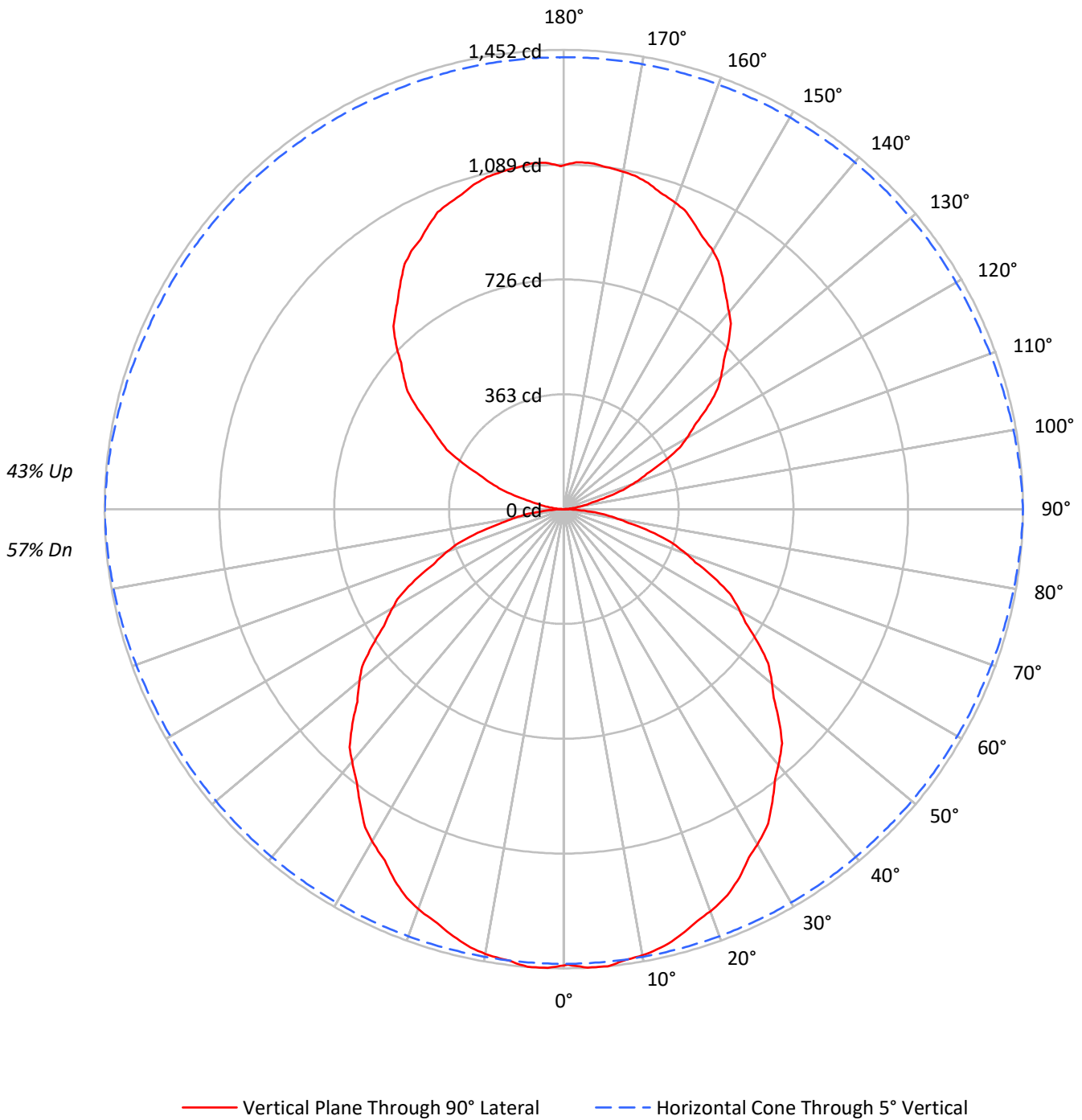
Lumens per Lamp: N/A  
Luminaire Lumens: 7042.5 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 69.5  
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	75	75	75	63	63	63	57		
1	99	95	91	87	92	88	85	82	76	74	71	65	64	62	55	54	53	48		
2	90	83	76	71	84	77	72	67	67	63	59	57	54	51	48	46	44	40		
3	82	72	65	59	76	68	61	56	59	54	49	50	47	43	43	40	37	34		
4	75	64	56	50	70	60	53	47	52	46	42	45	40	37	38	35	32	29		
5	69	57	49	43	64	53	46	40	47	41	36	40	36	32	34	31	28	25		
6	64	51	43	37	59	48	40	35	42	36	31	36	32	28	31	27	24	22		
7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	25	22	19		
8	54	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17		
9	51	38	31	25	47	36	29	24	32	26	22	28	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	26	21	18	22	19	16	14		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	23269	23269	23269
5°	23308	23538	23161
10°	23263	23463	22982
15°	23280	23330	22806
20°	23077	23199	22471
25°	22830	22992	22110
30°	22592	22723	21707
35°	22330	22391	21335
40°	22025	22110	20896
45°	21623	21783	20400
50°	21197	21401	19826
55°	20569	20966	19175
60°	19972	20496	18406
65°	19228	19924	17490
70°	18227	18940	16173
75°	16962	17654	14311
80°	15221	15035	11836
85°	11801	11986	7484



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.4	1.9
10°-20°	389.6	5.5
20°-30°	586.0	8.3
30°-40°	700.1	9.9
40°-50°	719.8	10.2
50°-60°	648.0	9.2
60°-70°	493.4	7.0
70°-80°	281.3	4.0
80°-90°	73.8	1.0
90°-100°	27.4	0.4
100°-110°	121.5	1.7
110°-120°	349.1	5.0
120°-130°	531.8	7.6
130°-140°	577.2	8.2
140°-150°	552.0	7.8
150°-160°	454.7	6.5
160°-170°	297.6	4.2
170°-180°	103.0	1.5
0°-30°	1111.9	15.8
0°-40°	1812.0	25.7
0°-60°	3179.7	45.2
0°-90°	4028.3	57.2
90°-120°	498.0	7.1
90°-150°	2158.9	30.7
90°-180°	3014.0	42.8
0°-180°	7042.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1441	1441	1441	1441	1441	
5°	1438	1436	1452	1432	1429	137
15°	1393	1393	1396	1376	1364	392
25°	1282	1293	1291	1263	1241	590
35°	1133	1146	1136	1108	1082	708
45°	947	954	954	918	893	729
55°	731	747	745	707	681	656
65°	503	516	522	479	458	497
75°	272	280	283	250	229	288
85°	64	69	65	54	40	75
90°	0	0	0	0	0	2
95°	4	6	19	42	41	5
105°	27	74	140	96	102	32
115°	262	688	352	165	185	362
125°	1040	906	561	278	236	913
135°	1146	1038	744	461	367	885
145°	1200	1117	887	656	560	752
155°	1212	1162	994	823	750	561
165°	1186	1156	1065	957	911	337
175°	1117	1120	1098	1049	1024	108
180°	1084	1084	1084	1084	1084	



TEST NUMBER: P522555

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2
2.5°	1439.6	1442.7	1441.2	1439.0	1451.7	1437.5	1439.6	1437.8	1429.9
5°	1438.1	1437.2	1436.1	1437.5	1452.3	1433.5	1432.1	1429.0	1429.0
7.5°	1432.7	1431.7	1430.5	1426.3	1438.3	1419.8	1420.4	1417.2	1413.1
10°	1418.9	1421.9	1420.0	1418.2	1431.1	1409.3	1409.8	1406.7	1401.8
12.5°	1412.5	1412.3	1411.1	1405.3	1417.3	1395.6	1395.3	1391.4	1388.0
15°	1392.7	1391.7	1392.7	1382.8	1395.7	1375.9	1375.5	1367.3	1364.4
17.5°	1364.2	1365.7	1367.2	1357.2	1368.8	1345.3	1345.0	1335.4	1333.6
20°	1343.1	1343.1	1350.2	1339.3	1350.2	1327.5	1328.0	1308.8	1307.8
22.5°	1318.1	1319.7	1327.6	1316.7	1326.0	1302.4	1301.3	1285.2	1281.1
25°	1281.5	1282.5	1292.6	1279.7	1290.6	1265.9	1263.3	1242.1	1241.1
27.5°	1241.7	1241.3	1253.4	1238.4	1247.1	1225.2	1222.1	1199.6	1198.2
30°	1211.8	1209.8	1225.9	1210.9	1218.8	1196.1	1194.6	1167.2	1164.3
32.5°	1180.2	1179.0	1193.6	1181.0	1186.5	1165.3	1157.4	1134.9	1133.5
35°	1132.9	1129.0	1146.1	1133.0	1136.0	1116.2	1107.7	1084.4	1082.4
37.5°	1079.0	1077.2	1089.7	1081.5	1086.2	1065.5	1051.3	1029.0	1027.8
40°	1045.0	1040.1	1054.1	1045.1	1049.0	1028.3	1015.7	993.4	991.4
42.5°	1003.8	1003.6	1015.3	1007.9	1012.7	991.1	975.3	953.8	951.0
45°	947.0	944.0	954.0	952.1	954.0	931.3	917.7	893.4	893.4
47.5°	884.3	882.3	895.8	890.4	893.2	873.4	855.8	834.1	830.5
50°	843.9	841.9	853.0	850.0	852.0	832.2	814.6	791.3	789.3
52.5°	801.8	799.9	811.7	807.9	809.1	791.7	772.5	751.6	748.1
55°	730.7	735.6	746.9	745.8	744.8	727.1	707.4	686.1	681.2
57.5°	669.4	671.4	679.4	680.9	677.5	665.9	642.0	621.2	616.1
60°	618.5	624.4	635.7	635.7	634.7	619.9	594.3	575.9	570.0
62.5°	571.6	578.3	588.0	590.4	589.4	571.4	549.8	532.2	524.7
65°	503.3	508.2	516.4	521.5	521.5	501.7	479.0	462.8	457.8
67.5°	432.2	438.1	445.7	451.7	448.9	430.5	410.9	396.2	387.9
70°	386.1	392.0	397.2	403.2	401.2	384.4	364.8	348.5	342.6
72.5°	339.2	345.9	350.3	355.5	352.7	335.9	318.8	304.0	296.5
75°	271.9	273.8	279.9	284.0	283.0	266.2	249.6	237.3	229.4
77.5°	205.8	206.6	211.6	213.3	208.6	197.9	184.5	174.9	167.0
80°	163.7	163.7	168.8	169.6	161.7	155.8	142.5	135.2	127.3
82.5°	120.9	121.7	128.4	128.4	122.1	115.4	106.1	98.1	93.4
85°	63.7	64.7	68.7	71.6	64.7	60.7	53.6	45.4	40.4
87.5°	17.0	17.8	23.4	26.5	20.2	20.2	12.9	8.9	7.3
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	4.0	15.1	17.0	15.3	14.6
95°	4.0	4.0	6.1	19.2	19.2	31.1	42.4	41.4	41.4
97.5°	9.1	10.1	14.1	58.5	43.7	42.5	60.6	66.7	67.3
100°	13.1	14.1	22.2	95.3	64.7	54.8	64.7	78.9	81.9
102.5°	18.0	19.8	35.2	150.5	91.4	65.7	76.0	86.2	89.1
105°	27.3	30.3	73.8	252.1	139.5	87.1	96.0	101.1	102.1
107.5°	41.0	52.1	201.9	354.6	197.9	115.3	120.5	123.9	125.1
110°	55.6	79.3	350.7	416.5	241.5	136.8	133.4	142.5	140.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	93.6	163.2	514.8	467.2	285.2	162.3	145.5	160.3	161.5
115°	261.8	449.5	688.2	539.5	351.7	206.4	164.7	179.0	184.9
117.5°	656.9	781.6	779.6	606.3	415.6	258.5	187.8	194.6	201.3
120°	883.3	902.1	825.7	651.5	456.8	295.7	207.2	204.3	210.2
122.5°	967.4	952.2	860.5	691.2	498.9	334.6	232.2	214.8	219.9
125°	1040.0	1010.3	905.5	747.7	560.9	391.9	277.9	237.5	236.5
127.5°	1080.2	1049.1	949.6	796.8	617.9	451.5	329.9	269.6	260.5
130°	1099.6	1070.9	980.3	826.9	655.9	491.9	367.9	297.8	284.0
132.5°	1123.0	1092.0	1002.2	857.7	692.3	529.8	405.9	331.7	315.5
135°	1146.1	1117.4	1037.9	898.0	743.8	585.7	460.9	387.6	366.9
137.5°	1166.7	1140.4	1070.7	929.7	790.3	640.7	519.1	447.7	422.4
140°	1180.4	1151.8	1084.4	954.0	818.6	675.3	557.9	486.7	466.9
142.5°	1185.3	1167.7	1099.0	974.5	850.2	708.4	596.7	523.1	504.9
145°	1199.6	1187.8	1116.8	999.0	887.3	757.9	655.9	579.7	559.9
147.5°	1208.9	1191.1	1133.1	1025.5	923.7	802.2	709.7	636.5	618.1
150°	1209.7	1195.9	1146.1	1041.9	948.0	834.3	742.8	673.7	656.9
152.5°	1216.2	1199.2	1152.5	1055.7	965.8	861.6	776.0	711.7	693.3
155°	1211.8	1199.9	1162.2	1073.5	993.5	896.6	822.7	765.7	749.9
157.5°	1211.8	1197.1	1163.5	1087.3	1020.1	935.2	866.3	813.7	801.8
160°	1203.7	1197.7	1164.3	1097.1	1033.9	956.8	895.4	847.6	831.8
162.5°	1200.4	1190.6	1165.9	1103.7	1046.0	974.5	920.5	875.1	863.3
165°	1186.5	1177.6	1156.2	1106.7	1065.2	1005.9	957.1	916.5	910.6
167.5°	1170.5	1163.6	1149.5	1111.5	1078.0	1029.5	988.4	955.7	947.6
170°	1159.2	1148.3	1143.0	1114.1	1084.4	1043.9	1008.6	979.1	970.2
172.5°	1139.8	1138.4	1134.1	1107.9	1090.1	1056.7	1027.2	1000.2	994.5
175°	1116.8	1116.8	1119.8	1103.5	1097.6	1069.9	1049.0	1032.7	1023.8
177.5°	1090.1	1090.9	1097.4	1096.6	1097.4	1081.5	1075.5	1060.1	1058.5
180°	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4	1084.4

(END OF REPORT)