

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: P522554

Luminaire Tested: **SQW-F-075U-100D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522554
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

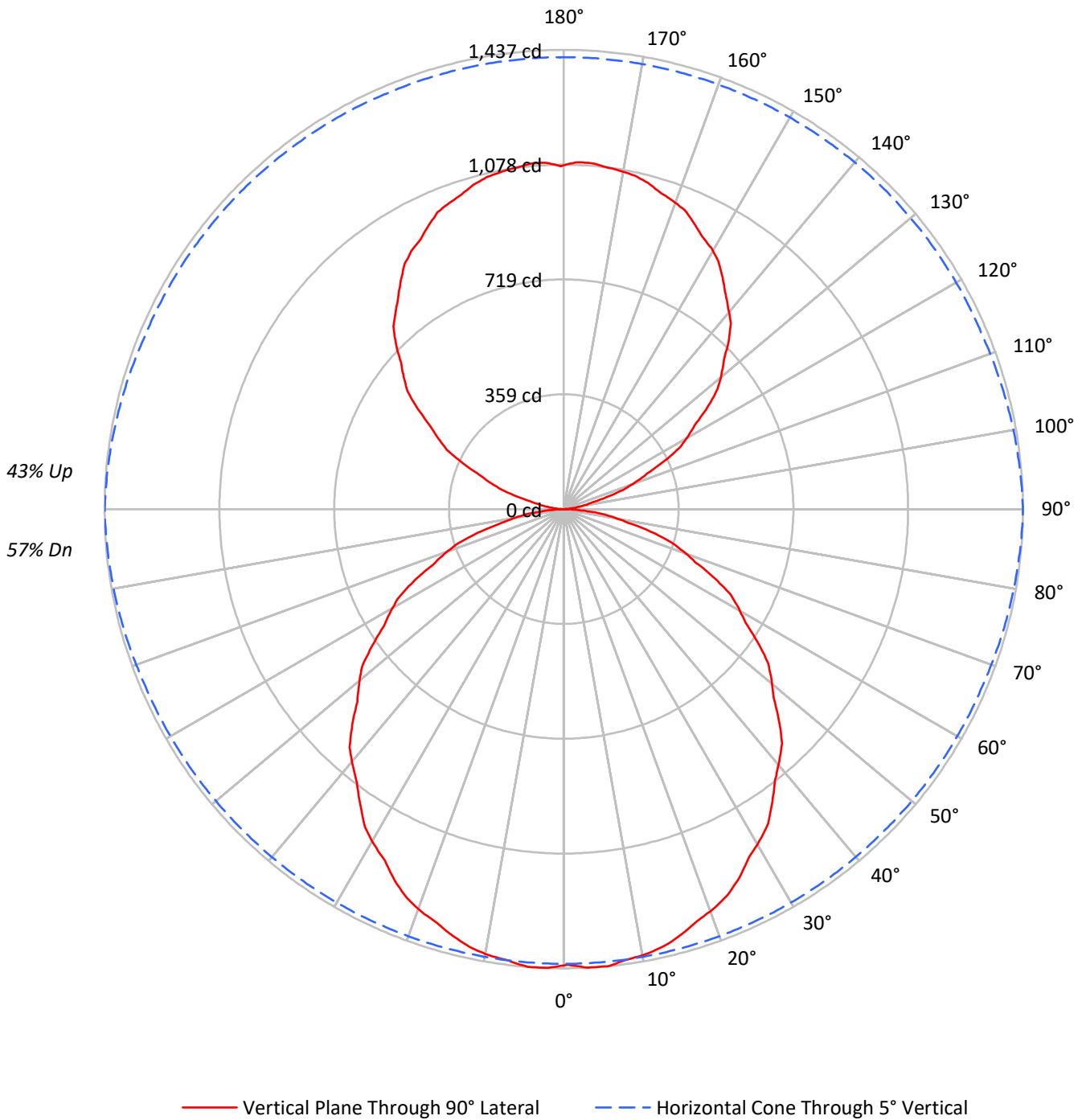
Lumens per Lamp: N/A
Luminaire Lumens: 6968.4 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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				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	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°	23024	23024	23024
5°	23063	23290	22917
10°	23018	23215	22740
15°	23034	23084	22566
20°	22835	22955	22234
25°	22589	22750	21877
30°	22354	22484	21477
35°	22095	22155	21110
40°	21794	21878	20676
45°	21395	21555	20185
50°	20974	21175	19618
55°	20352	20746	18973
60°	19763	20279	18213
65°	19026	19713	17307
70°	18033	18741	16003
75°	16781	17467	14161
80°	15063	14877	11716
85°	11671	11856	7410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	1.9
10°-20°	385.5	5.5
20°-30°	579.8	8.3
30°-40°	692.7	9.9
40°-50°	712.2	10.2
50°-60°	641.1	9.2
60°-70°	488.2	7.0
70°-80°	278.4	4.0
80°-90°	73.1	1.0
90°-100°	27.1	0.4
100°-110°	120.2	1.7
110°-120°	345.4	5.0
120°-130°	526.2	7.6
130°-140°	571.1	8.2
140°-150°	546.2	7.8
150°-160°	449.9	6.5
160°-170°	294.4	4.2
170°-180°	101.9	1.5
0°-30°	1100.2	15.8
0°-40°	1792.9	25.7
0°-60°	3146.2	45.2
0°-90°	3985.9	57.2
90°-120°	492.7	7.1
90°-150°	2136.2	30.7
90°-180°	2983.0	42.8
0°-180°	6968.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1426	1426	1426	1426	1426	
5°	1423	1421	1437	1417	1414	135
15°	1378	1378	1381	1361	1350	388
25°	1268	1279	1277	1250	1228	584
35°	1121	1134	1124	1096	1071	700
45°	937	944	944	908	884	722
55°	723	739	737	700	674	649
65°	498	511	516	474	453	492
75°	269	277	280	247	227	285
85°	63	68	64	53	40	74
90°	0	0	0	0	0	2
95°	4	6	19	42	41	5
105°	27	73	138	95	101	31
115°	259	681	348	163	183	358
125°	1029	896	555	275	234	903
135°	1134	1027	736	456	363	876
145°	1187	1105	878	649	554	744
155°	1199	1150	983	814	742	555
165°	1174	1144	1054	947	901	333
175°	1105	1108	1086	1038	1013	107
180°	1073	1073	1073	1073	1073	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0
2.5°	1424.4	1427.5	1426.0	1423.9	1436.4	1422.3	1424.4	1422.6	1414.8
5°	1423.0	1422.0	1421.0	1422.3	1437.0	1418.4	1417.0	1414.0	1414.0
7.5°	1417.6	1416.6	1415.4	1411.3	1423.2	1404.8	1405.4	1402.3	1398.2
10°	1404.0	1406.9	1405.0	1403.3	1416.0	1394.5	1395.0	1391.9	1387.0
12.5°	1397.6	1397.4	1396.2	1390.5	1402.4	1380.9	1380.6	1376.7	1373.4
15°	1378.0	1377.0	1378.0	1368.3	1381.0	1361.4	1361.0	1352.9	1350.0
17.5°	1349.8	1351.4	1352.8	1342.9	1354.4	1331.1	1330.8	1321.4	1319.6
20°	1329.0	1329.0	1336.0	1325.2	1336.0	1313.5	1314.0	1295.0	1294.0
22.5°	1304.2	1305.8	1313.6	1302.8	1312.0	1288.7	1287.6	1271.7	1267.6
25°	1268.0	1269.0	1279.0	1266.2	1277.0	1252.6	1250.0	1229.0	1228.0
27.5°	1228.6	1228.2	1240.2	1225.4	1234.0	1212.3	1209.2	1187.0	1185.6
30°	1199.0	1197.0	1213.0	1198.2	1206.0	1183.5	1182.0	1154.9	1152.0
32.5°	1167.8	1166.6	1181.0	1168.5	1174.0	1153.1	1145.2	1123.0	1121.6
35°	1121.0	1117.1	1134.0	1121.1	1124.0	1104.4	1096.0	1073.0	1071.0
37.5°	1067.6	1065.8	1078.2	1070.1	1074.8	1054.3	1040.2	1018.2	1017.0
40°	1034.0	1029.1	1043.0	1034.1	1038.0	1017.5	1005.0	983.0	981.0
42.5°	993.2	993.0	1004.6	997.3	1002.0	980.7	965.0	943.7	941.0
45°	937.0	934.1	944.0	942.0	944.0	921.5	908.0	884.0	884.0
47.5°	875.0	873.0	886.4	881.1	883.8	864.2	846.8	825.3	821.8
50°	835.0	833.0	844.0	841.0	843.0	823.4	806.0	783.0	781.0
52.5°	793.4	791.4	803.2	799.4	800.6	783.4	764.4	743.7	740.2
55°	723.0	727.9	739.0	738.0	737.0	719.4	700.0	678.9	674.0
57.5°	662.4	664.4	672.2	673.7	670.4	658.9	635.2	614.7	609.6
60°	612.0	617.9	629.0	629.0	628.0	613.3	588.0	569.9	564.0
62.5°	565.6	572.2	581.8	584.2	583.2	565.4	544.0	526.6	519.2
65°	498.0	502.9	511.0	516.0	516.0	496.4	474.0	457.9	453.0
67.5°	427.6	433.5	441.0	446.9	444.2	426.0	406.6	392.0	383.8
70°	382.0	387.9	393.0	399.0	397.0	380.4	361.0	344.9	339.0
72.5°	335.6	342.2	346.6	351.7	349.0	332.4	315.4	300.8	293.4
75°	269.0	271.0	277.0	281.0	280.0	263.4	247.0	234.8	227.0
77.5°	203.6	204.4	209.4	211.1	206.4	195.8	182.6	173.0	165.2
80°	162.0	162.0	167.0	167.8	160.0	154.1	141.0	133.8	126.0
82.5°	119.6	120.4	127.0	127.1	120.8	114.2	105.0	97.1	92.4
85°	63.0	64.0	68.0	70.8	64.0	60.1	53.0	44.9	40.0
87.5°	16.8	17.6	23.2	26.3	20.0	20.0	12.8	8.8	7.2
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	2.4	4.0	15.0	16.8	15.2	14.4
95°	4.0	4.0	6.0	19.0	19.0	30.7	42.0	41.0	41.0
97.5°	9.0	10.0	14.0	57.9	43.2	42.0	60.0	66.0	66.6
100°	13.0	14.0	22.0	94.3	64.0	54.2	64.0	78.1	81.0
102.5°	17.8	19.6	34.8	148.9	90.4	65.0	75.2	85.3	88.2
105°	27.0	29.9	73.0	249.5	138.0	86.2	95.0	100.0	101.0
107.5°	40.6	51.6	199.8	350.9	195.8	114.1	119.2	122.6	123.8
110°	55.0	78.5	347.0	412.1	239.0	135.4	132.0	141.0	139.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	92.6	161.4	509.4	462.3	282.2	160.6	144.0	158.6	159.8
115°	259.0	444.8	681.0	533.8	348.0	204.3	163.0	177.1	183.0
117.5°	650.0	773.4	771.4	599.9	411.2	255.7	185.8	192.6	199.2
120°	874.0	892.6	817.0	644.6	452.0	292.6	205.0	202.1	208.0
122.5°	957.2	942.1	851.4	683.9	493.6	331.1	229.8	212.5	217.6
125°	1029.0	999.7	896.0	739.8	555.0	387.8	275.0	235.0	234.0
127.5°	1068.8	1038.1	939.6	788.4	611.4	446.7	326.4	266.8	257.8
130°	1088.0	1059.6	970.0	818.2	649.0	486.7	364.0	294.7	281.0
132.5°	1111.2	1080.5	991.6	848.7	685.0	524.3	401.6	328.2	312.2
135°	1134.0	1105.6	1027.0	888.5	736.0	579.6	456.0	383.5	363.0
137.5°	1154.4	1128.4	1059.4	919.9	782.0	634.0	513.6	443.0	418.0
140°	1168.0	1139.6	1073.0	944.0	810.0	668.2	552.0	481.6	462.0
142.5°	1172.8	1155.4	1087.4	964.2	841.2	701.0	590.4	517.6	499.6
145°	1187.0	1175.3	1105.0	988.5	878.0	749.9	649.0	573.6	554.0
147.5°	1196.2	1178.6	1121.2	1014.7	914.0	793.7	702.2	629.8	611.6
150°	1197.0	1183.3	1134.0	1030.9	938.0	825.6	735.0	666.6	650.0
152.5°	1203.4	1186.6	1140.4	1044.6	955.6	852.5	767.8	704.2	686.0
155°	1199.0	1187.3	1150.0	1062.2	983.0	887.2	814.0	757.6	742.0
157.5°	1199.0	1184.5	1151.2	1075.9	1009.4	925.3	857.2	805.1	793.4
160°	1191.0	1185.1	1152.0	1085.6	1023.0	946.7	886.0	838.6	823.0
162.5°	1187.8	1178.0	1153.6	1092.1	1035.0	964.2	910.8	865.9	854.2
165°	1174.0	1165.2	1144.0	1095.1	1054.0	995.3	947.0	906.9	901.0
167.5°	1158.2	1151.4	1137.4	1099.8	1066.6	1018.7	978.0	945.6	937.6
170°	1147.0	1136.2	1131.0	1102.3	1073.0	1032.9	998.0	968.8	960.0
172.5°	1127.8	1126.4	1122.2	1096.2	1078.6	1045.6	1016.4	989.7	984.0
175°	1105.0	1105.0	1108.0	1091.9	1086.0	1058.6	1038.0	1021.8	1013.0
177.5°	1078.6	1079.4	1085.8	1085.0	1085.8	1070.2	1064.2	1049.0	1047.4
180°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0

(END OF REPORT)