

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: P522377

Luminaire Tested: **SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522377  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5120.1 lumens  
Efficiency: N/A  
Efficacy: 108.7 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: Semi-Indirect

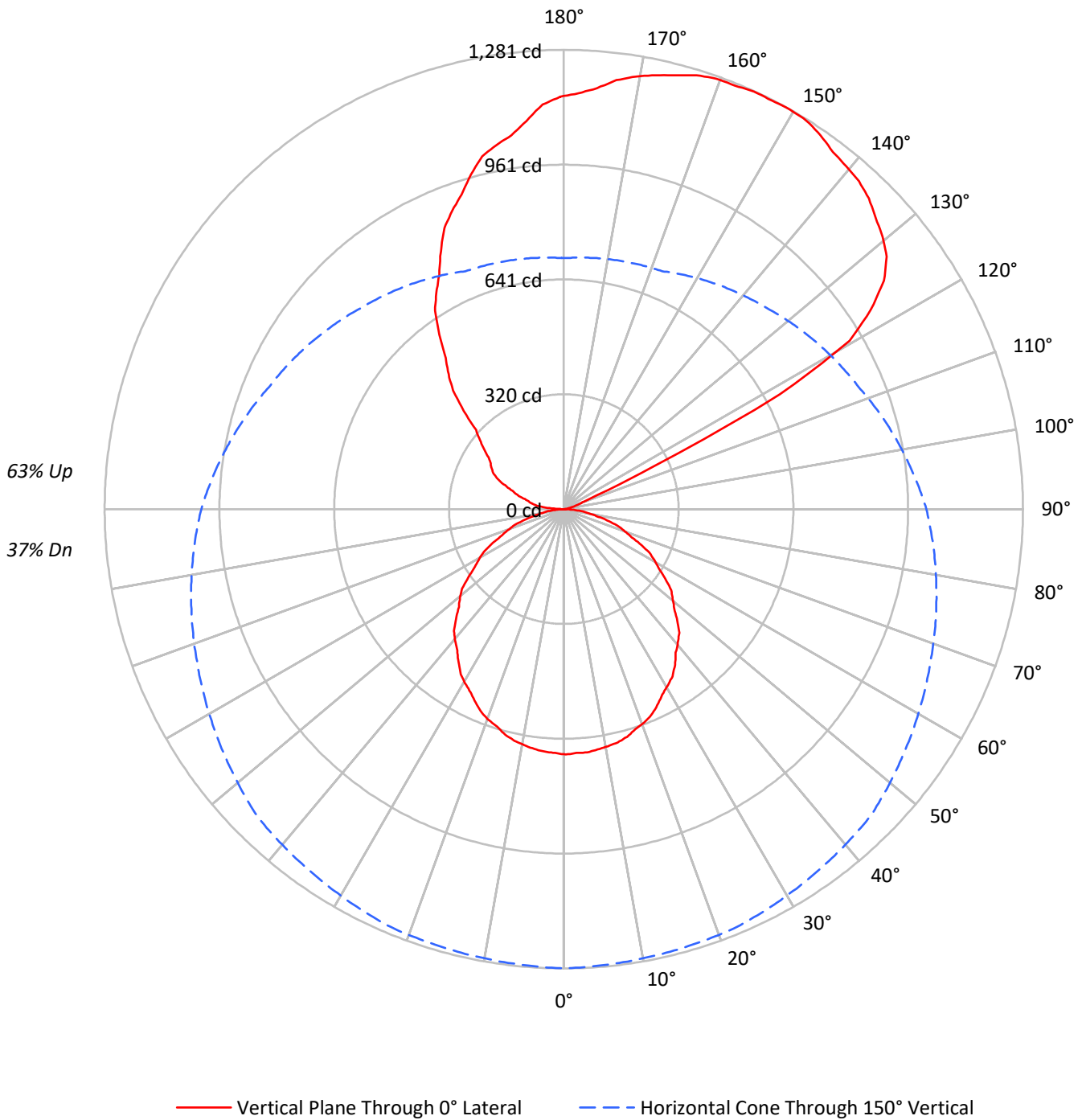
Input Watts (W): 47.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	61	53	47	65	56	49	44	45	40	37	36	32	30	27	25	23	19
5	66	54	46	40	59	50	43	37	41	35	31	32	28	25	24	22	20	16
6	60	49	41	35	55	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	28	24	26	22	20	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	90°	180°
0°	11053	11053	11053
5°	11047	11159	11000
10°	11032	11144	10952
15°	11019	11084	10872
20°	10940	11024	10739
25°	10803	10908	10561
30°	10651	10797	10414
35°	10529	10663	10222
40°	10332	10517	10045
45°	10145	10369	9812
50°	9887	10181	9568
55°	9678	9951	9208
60°	9397	9746	8861
65°	8879	9326	8359
70°	8389	8899	7789
75°	7735	8166	7130
80°	6722	7169	5997
85°	5057	5613	4520



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.8	1.3
10°-20°	185.1	3.6
20°-30°	278.4	5.4
30°-40°	332.4	6.5
40°-50°	341.9	6.7
50°-60°	307.6	6.0
60°-70°	232.6	4.5
70°-80°	132.3	2.6
80°-90°	35.0	0.7
90°-100°	30.2	0.6
100°-110°	130.9	2.6
110°-120°	373.4	7.3
120°-130°	567.7	11.1
130°-140°	614.1	12.0
140°-150°	586.7	11.5
150°-160°	482.6	9.4
160°-170°	315.3	6.2
170°-180°	109.1	2.1
0°-30°	528.2	10.3
0°-40°	860.6	16.8
0°-60°	1510.2	29.5
0°-90°	1910.1	37.3
90°-120°	534.6	10.4
90°-150°	2303.1	45.0
90°-180°	3210.0	62.7
0°-180°	5120.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	685	685	685	685	685	
5°	682	682	688	682	679	65
15°	659	660	663	655	650	186
25°	606	612	612	604	593	279
35°	534	540	541	529	519	333
45°	444	450	454	440	430	342
55°	344	351	354	340	327	307
65°	232	239	244	230	219	231
75°	124	128	131	121	114	131
85°	27	31	30	27	24	33
90°	0	0	0	0	0	1
95°	5	7	20	49	46	6
105°	30	77	151	104	111	35
115°	275	732	378	180	203	379
125°	1098	966	604	297	255	965
135°	1215	1100	795	493	391	936
145°	1266	1185	947	701	598	793
155°	1280	1224	1058	878	797	592
165°	1250	1223	1133	1016	969	355
175°	1178	1181	1160	1118	1088	114
180°	1150	1150	1150	1150	1150	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6
2.5°	681.4	683.7	683.8	683.1	689.3	683.1	684.6	683.0	680.7
5°	681.6	681.6	681.6	680.8	688.5	679.9	681.6	678.7	678.7
7.5°	677.5	677.7	678.5	676.0	684.4	674.8	676.6	673.5	674.2
10°	672.9	673.8	673.8	672.1	679.7	670.1	671.9	668.0	668.0
12.5°	668.2	668.4	669.1	666.6	674.2	663.9	665.6	661.7	660.9
15°	659.2	659.2	660.2	656.4	663.1	653.5	655.3	650.4	650.4
17.5°	646.1	645.9	648.2	643.3	650.2	639.5	643.0	636.9	635.2
20°	636.7	635.8	639.7	634.0	641.6	630.1	632.8	626.0	625.0
22.5°	625.0	624.0	629.5	623.8	630.7	619.2	621.9	612.7	612.5
25°	606.4	605.5	612.3	606.6	612.3	601.8	603.5	593.7	592.8
27.5°	585.4	585.4	593.4	586.7	593.2	582.7	583.4	573.4	573.4
30°	571.3	571.3	580.1	573.4	579.1	568.6	569.3	558.6	558.6
32.5°	556.4	556.4	563.7	558.5	564.3	553.8	553.7	543.0	543.0
35°	534.2	532.3	540.0	535.3	541.0	530.5	529.3	518.6	518.6
37.5°	507.4	506.5	515.0	511.6	516.2	505.9	503.1	492.8	493.8
40°	490.2	489.3	497.1	495.2	499.0	489.5	484.4	475.6	476.6
42.5°	472.3	470.5	478.3	477.2	481.1	471.5	467.2	457.6	457.8
45°	444.3	444.3	450.2	450.3	454.1	443.6	439.5	429.7	429.7
47.5°	414.7	414.8	420.9	421.2	424.8	415.6	411.1	400.6	400.4
50°	393.6	394.5	401.4	402.4	405.3	397.6	391.6	381.8	380.9
52.5°	375.6	374.3	381.1	382.9	385.0	377.3	371.3	361.5	360.5
55°	343.8	344.7	350.6	353.5	353.5	346.8	339.8	330.0	327.1
57.5°	312.1	313.4	318.2	321.9	322.9	315.4	308.2	299.3	295.5
60°	291.0	290.1	297.9	300.8	301.8	295.1	287.1	278.2	274.4
62.5°	268.4	268.9	274.4	278.9	279.9	272.4	265.2	254.0	251.0
65°	232.4	235.3	239.3	242.2	244.1	238.4	229.5	220.7	218.8
67.5°	199.6	201.5	205.5	210.0	211.1	204.6	196.7	189.0	186.9
70°	177.7	179.6	183.6	186.6	188.5	182.7	174.8	167.9	165.0
72.5°	155.9	157.8	160.9	163.9	165.8	160.1	152.9	146.8	144.7
75°	124.0	125.9	127.9	129.9	130.9	127.0	121.1	115.2	114.3
77.5°	92.6	94.5	96.7	99.2	98.2	95.6	89.8	85.9	84.8
80°	72.3	74.2	77.1	78.1	77.1	75.2	70.3	66.4	64.5
82.5°	53.5	55.4	58.4	58.6	56.8	56.5	52.3	49.2	48.0
85°	27.3	29.3	31.3	32.2	30.3	30.3	27.3	24.4	24.4
87.5°	5.5	7.0	9.4	11.7	9.4	10.1	7.8	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.6	1.6	1.6	3.2	4.7	16.9	18.8	16.4	16.4
95°	4.9	4.9	6.8	21.5	20.5	34.8	48.8	45.9	45.9
97.5°	10.0	10.9	15.6	63.5	47.9	46.5	66.0	73.5	74.8
100°	14.6	15.6	23.4	103.8	71.3	60.8	72.3	86.0	88.9
102.5°	20.1	21.8	37.5	163.2	100.2	71.4	82.4	94.6	98.2
105°	30.3	33.1	77.1	273.6	151.4	93.1	103.5	108.5	111.3
107.5°	44.9	56.6	207.8	384.4	214.8	123.0	134.0	133.3	135.7
110°	60.5	84.4	359.4	445.1	261.7	146.2	146.5	154.2	151.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	100.4	167.8	535.9	503.4	308.6	174.0	158.2	175.4	176.4
115°	275.4	473.0	732.4	585.1	377.9	223.2	179.7	196.4	203.1
117.5°	682.8	823.0	833.0	657.7	447.1	278.3	204.3	211.7	220.5
120°	925.8	954.4	879.9	702.3	493.2	317.5	224.6	221.9	231.4
122.5°	1021.1	1010.8	918.2	743.8	538.5	359.0	249.6	234.3	240.8
125°	1097.7	1070.9	965.8	801.2	604.5	421.2	296.9	254.9	254.9
127.5°	1143.4	1112.2	1009.6	852.2	664.1	484.0	353.7	288.3	279.3
130°	1169.9	1136.5	1036.1	887.4	703.1	524.6	393.6	317.1	302.7
132.5°	1190.2	1159.9	1061.1	915.0	741.4	564.4	433.4	352.8	329.3
135°	1214.8	1189.1	1099.6	957.3	794.9	624.0	493.2	414.5	390.6
137.5°	1230.7	1210.6	1134.2	992.0	844.5	683.2	553.5	474.5	452.9
140°	1239.3	1223.0	1151.4	1012.5	875.0	721.3	595.7	515.2	495.1
142.5°	1247.9	1234.7	1163.9	1035.3	904.7	759.4	637.1	556.5	535.0
145°	1265.6	1250.4	1184.6	1062.8	947.3	812.6	701.2	616.8	597.7
147.5°	1278.1	1259.8	1201.6	1092.3	987.5	860.9	760.0	678.5	659.6
150°	1281.3	1262.2	1210.9	1108.2	1011.7	890.5	795.9	718.3	700.2
152.5°	1278.9	1264.4	1218.0	1121.6	1032.0	919.2	828.7	756.7	740.0
155°	1280.3	1266.9	1223.6	1139.7	1057.6	959.3	877.9	814.1	796.9
157.5°	1274.4	1265.6	1227.5	1153.6	1081.3	995.1	923.1	869.3	852.0
160°	1274.4	1261.1	1227.5	1161.6	1097.7	1018.4	951.2	903.0	888.7
162.5°	1265.8	1254.0	1226.8	1167.3	1113.3	1040.1	977.7	932.8	922.3
165°	1250.0	1240.5	1222.7	1174.8	1132.8	1069.8	1015.6	975.4	968.8
167.5°	1237.7	1224.5	1214.8	1174.6	1146.1	1091.1	1047.7	1014.4	1010.6
170°	1223.6	1215.0	1207.0	1172.4	1152.3	1106.5	1070.3	1037.0	1033.2
172.5°	1205.7	1200.9	1196.9	1171.0	1156.3	1119.6	1089.8	1059.6	1052.7
175°	1177.7	1181.6	1180.7	1167.8	1160.2	1136.3	1118.2	1096.5	1087.9
177.5°	1160.6	1159.0	1162.9	1160.5	1159.8	1145.3	1140.2	1125.5	1130.1
180°	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4

(END OF REPORT)