

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: P522390

Luminaire Tested: **SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522390  
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-075D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

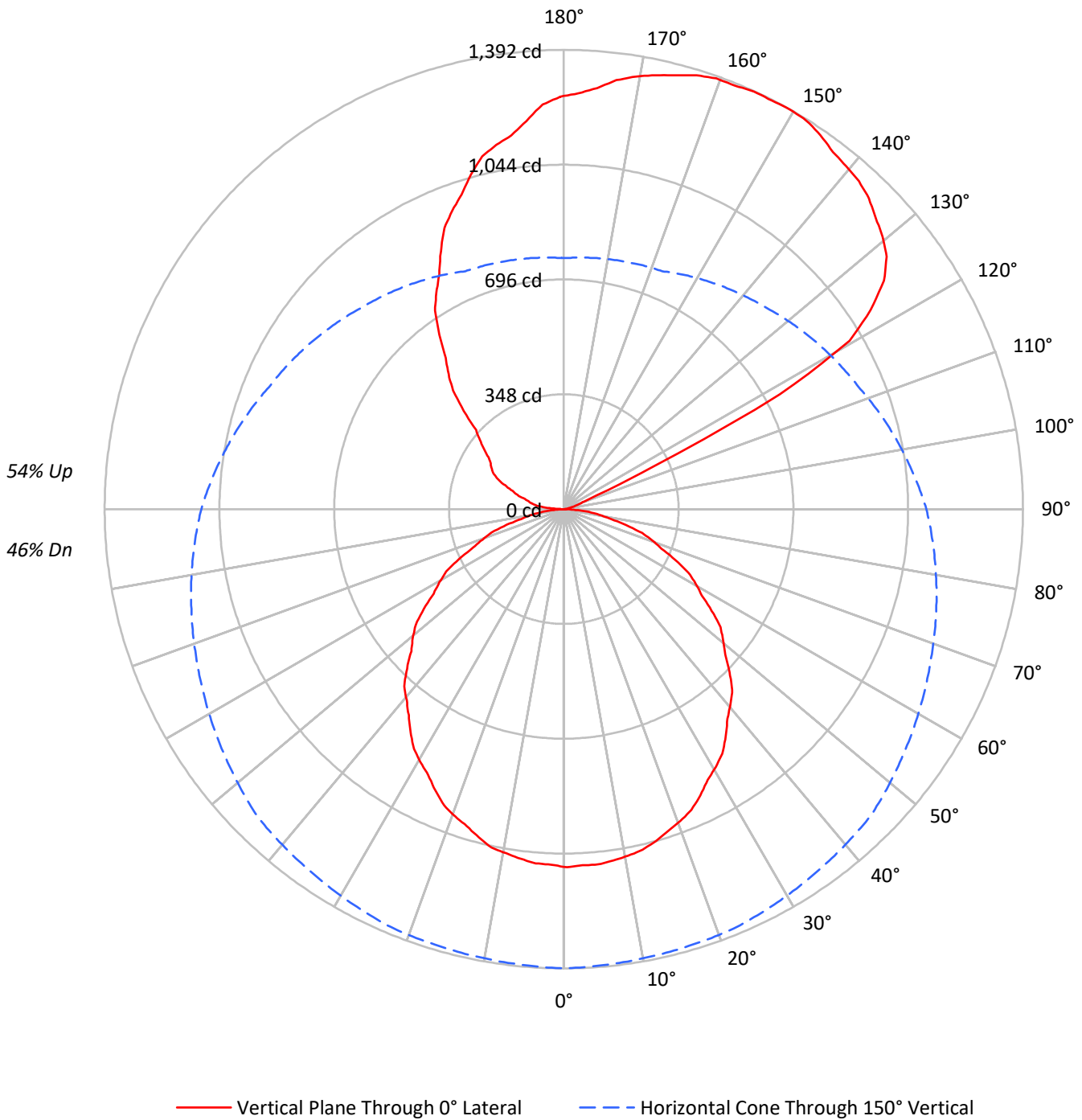
Lumens per Lamp: N/A  
Luminaire Lumens: 6518.7 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 57.4  
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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	45	44	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

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

	0°	90°	180°
0°	17526	17526	17526
5°	17541	17695	17455
10°	17518	17639	17344
15°	17453	17576	17187
20°	17338	17466	16974
25°	17126	17314	16710
30°	16913	17111	16438
35°	16669	16878	16166
40°	16394	16638	15789
45°	16089	16401	15481
50°	15724	16098	15111
55°	15322	15769	14666
60°	14835	15452	14118
65°	14189	14957	13417
70°	13426	14275	12420
75°	12246	12976	11185
80°	10656	11539	9568
85°	8058	9040	6688



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	1.6
10°-20°	293.4	4.5
20°-30°	441.3	6.8
30°-40°	527.1	8.1
40°-50°	541.9	8.3
50°-60°	487.7	7.5
60°-70°	371.2	5.7
70°-80°	210.3	3.2
80°-90°	55.3	0.8
90°-100°	32.9	0.5
100°-110°	142.3	2.2
110°-120°	405.7	6.2
120°-130°	616.9	9.5
130°-140°	667.2	10.2
140°-150°	637.5	9.8
150°-160°	524.3	8.0
160°-170°	342.6	5.3
170°-180°	118.5	1.8
0°-30°	837.4	12.8
0°-40°	1364.5	20.9
0°-60°	2394.1	36.7
0°-90°	3030.9	46.5
90°-120°	580.8	8.9
90°-150°	2502.4	38.4
90°-180°	3488.0	53.5
0°-180°	6518.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1086	1086	1086	1086	1086	
5°	1082	1082	1092	1079	1077	103
15°	1044	1046	1052	1038	1028	294
25°	961	971	972	955	938	443
35°	846	857	856	838	820	529
45°	705	714	718	697	678	543
55°	544	555	560	539	521	486
65°	371	382	392	368	351	368
75°	196	203	208	191	179	208
85°	44	49	49	44	36	52
90°	0	0	0	0	0	2
95°	5	7	22	53	50	7
105°	33	84	164	112	121	38
115°	299	796	411	195	221	412
125°	1193	1049	657	323	277	1048
135°	1320	1195	864	536	424	1017
145°	1375	1287	1029	762	649	861
155°	1391	1330	1149	954	866	643
165°	1358	1328	1231	1104	1053	386
175°	1280	1283	1261	1215	1182	124
180°	1250	1250	1250	1250	1250	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5
2.5°	1081.2	1084.6	1084.6	1084.8	1093.1	1084.0	1083.8	1083.7	1078.7
5°	1082.3	1082.3	1082.3	1080.4	1091.8	1079.4	1079.1	1077.0	1077.0
7.5°	1076.1	1074.3	1075.5	1073.2	1083.6	1070.1	1070.8	1068.5	1068.1
10°	1068.5	1067.5	1069.6	1065.5	1075.9	1062.4	1063.2	1060.0	1057.9
12.5°	1060.0	1059.0	1061.9	1056.2	1067.4	1053.9	1053.9	1049.8	1049.4
15°	1044.1	1044.1	1046.2	1042.2	1051.5	1038.0	1037.7	1033.4	1028.2
17.5°	1025.2	1022.9	1028.0	1021.4	1030.9	1015.8	1016.9	1010.6	1004.8
20°	1009.1	1006.0	1014.4	1006.1	1016.5	998.9	1001.6	992.0	987.9
22.5°	990.4	988.1	997.4	990.0	999.5	982.7	983.8	971.7	968.3
25°	961.3	960.3	970.9	962.6	971.9	954.3	955.0	942.1	938.0
27.5°	929.3	928.5	940.1	931.8	939.9	923.5	924.0	909.9	904.7
30°	907.2	907.2	918.9	910.6	917.8	902.3	901.9	886.9	881.7
32.5°	883.4	882.6	894.3	887.6	894.1	877.7	876.4	862.3	857.1
35°	845.7	845.7	857.3	850.1	856.3	841.8	838.2	824.4	820.2
37.5°	805.8	804.7	816.4	811.8	817.4	802.1	797.3	782.4	781.4
40°	777.8	776.7	788.4	786.3	789.4	774.9	769.3	754.3	749.1
42.5°	748.9	749.5	759.5	757.5	761.4	746.9	741.3	725.5	722.8
45°	704.6	703.5	714.1	713.2	718.3	703.8	697.1	680.1	678.0
47.5°	658.3	658.7	668.0	669.2	672.3	659.0	651.1	634.3	632.2
50°	626.0	628.1	636.6	637.8	640.9	628.4	619.7	603.7	601.6
52.5°	594.6	595.9	604.4	608.0	608.6	597.8	587.4	572.3	570.2
55°	544.3	547.4	554.9	559.2	560.2	550.9	539.0	524.1	521.0
57.5°	493.4	495.5	505.7	510.6	510.8	501.0	489.2	475.2	470.3
60°	459.4	461.5	470.1	477.5	478.5	467.1	455.2	441.3	437.2
62.5°	424.6	426.7	435.3	442.7	443.7	433.2	420.4	406.5	403.2
65°	371.4	373.4	382.0	390.5	391.5	381.2	368.2	354.3	351.2
67.5°	319.2	321.2	329.6	336.6	338.9	327.7	315.8	302.9	298.8
70°	284.4	286.4	293.9	299.3	302.4	292.0	280.1	267.3	263.1
72.5°	247.9	249.1	256.6	262.7	263.4	254.6	243.6	233.4	230.0
75°	196.3	198.4	202.7	209.0	208.0	199.7	191.0	183.5	179.3
77.5°	146.9	149.1	153.2	157.5	158.1	150.4	143.0	135.5	132.6
80°	114.6	117.7	121.0	125.2	124.1	119.0	112.5	105.0	102.9
82.5°	84.9	87.2	91.3	94.6	91.9	88.4	83.6	76.1	74.1
85°	43.5	44.5	48.8	51.9	48.8	47.8	43.5	38.2	36.1
87.5°	9.3	11.0	14.4	18.6	15.3	16.1	12.7	8.5	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.7	1.7	1.7	3.4	5.1	18.4	20.4	17.8	17.8
95°	5.3	5.3	7.4	23.3	22.3	37.8	53.1	49.9	49.9
97.5°	10.8	11.9	17.0	69.0	52.0	50.5	71.7	79.8	81.3
100°	15.9	17.0	25.5	112.7	77.5	66.0	78.5	93.4	96.6
102.5°	21.9	23.7	40.7	177.3	108.9	77.5	89.6	102.8	106.7
105°	32.9	36.0	83.8	297.3	164.5	101.2	112.5	117.8	121.0
107.5°	48.8	61.5	225.8	417.7	233.4	133.6	145.6	144.8	147.5
110°	65.8	91.7	390.5	483.6	284.4	158.8	159.2	167.6	164.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	109.1	182.3	582.3	546.9	335.3	189.0	171.9	190.6	191.6
115°	299.2	514.0	795.8	635.8	410.6	242.6	195.2	213.4	220.7
117.5°	741.9	894.2	905.1	714.6	485.8	302.3	222.0	230.0	239.6
120°	1005.9	1037.0	956.0	763.1	535.8	344.9	244.0	241.1	251.5
122.5°	1109.5	1098.3	997.6	808.1	585.1	390.0	271.2	254.6	261.7
125°	1192.6	1163.6	1049.4	870.5	656.8	457.6	322.6	276.9	276.9
127.5°	1242.3	1208.5	1096.9	925.9	721.5	525.9	384.3	313.2	303.5
130°	1271.2	1234.9	1125.8	964.2	764.0	570.0	427.6	344.5	328.9
132.5°	1293.2	1260.2	1153.0	994.2	805.6	613.2	470.9	383.3	357.8
135°	1320.0	1292.0	1194.8	1040.1	863.7	678.0	535.8	450.4	424.4
137.5°	1337.2	1315.4	1232.3	1077.8	917.6	742.3	601.4	515.6	492.1
140°	1346.5	1328.9	1251.0	1100.1	950.7	783.7	647.3	559.8	538.0
142.5°	1355.8	1341.5	1264.6	1124.9	983.0	825.1	692.2	604.7	581.3
145°	1375.1	1358.5	1287.1	1154.8	1029.2	883.0	761.8	670.1	649.4
147.5°	1388.7	1368.8	1305.5	1186.9	1073.0	935.4	825.7	737.2	716.6
150°	1392.1	1371.4	1315.7	1204.1	1099.3	967.5	864.8	780.5	760.8
152.5°	1389.6	1373.8	1323.4	1218.7	1121.3	998.7	900.4	822.1	804.1
155°	1391.1	1376.5	1329.5	1238.4	1149.1	1042.3	953.9	884.5	865.8
157.5°	1384.7	1375.2	1333.8	1253.5	1174.8	1081.2	1002.9	944.6	925.7
160°	1384.7	1370.2	1333.8	1262.2	1192.6	1106.5	1033.5	981.1	965.6
162.5°	1375.4	1362.5	1332.9	1268.3	1209.6	1130.1	1062.3	1013.5	1002.1
165°	1358.2	1347.8	1328.5	1276.5	1230.8	1162.4	1103.5	1059.8	1052.6
167.5°	1344.8	1330.5	1320.0	1276.2	1245.3	1185.5	1138.3	1102.1	1098.0
170°	1329.5	1320.2	1311.5	1273.9	1252.1	1202.3	1162.9	1126.8	1122.6
172.5°	1310.0	1304.8	1300.4	1272.3	1256.3	1216.5	1184.2	1151.3	1143.8
175°	1279.7	1283.8	1282.8	1268.9	1260.6	1234.6	1214.9	1191.4	1182.0
177.5°	1261.0	1259.3	1263.5	1261.0	1260.1	1244.4	1238.9	1222.9	1227.9
180°	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9

(END OF REPORT)