

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: P522354

Luminaire Tested: **SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522354  
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-050U-100D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

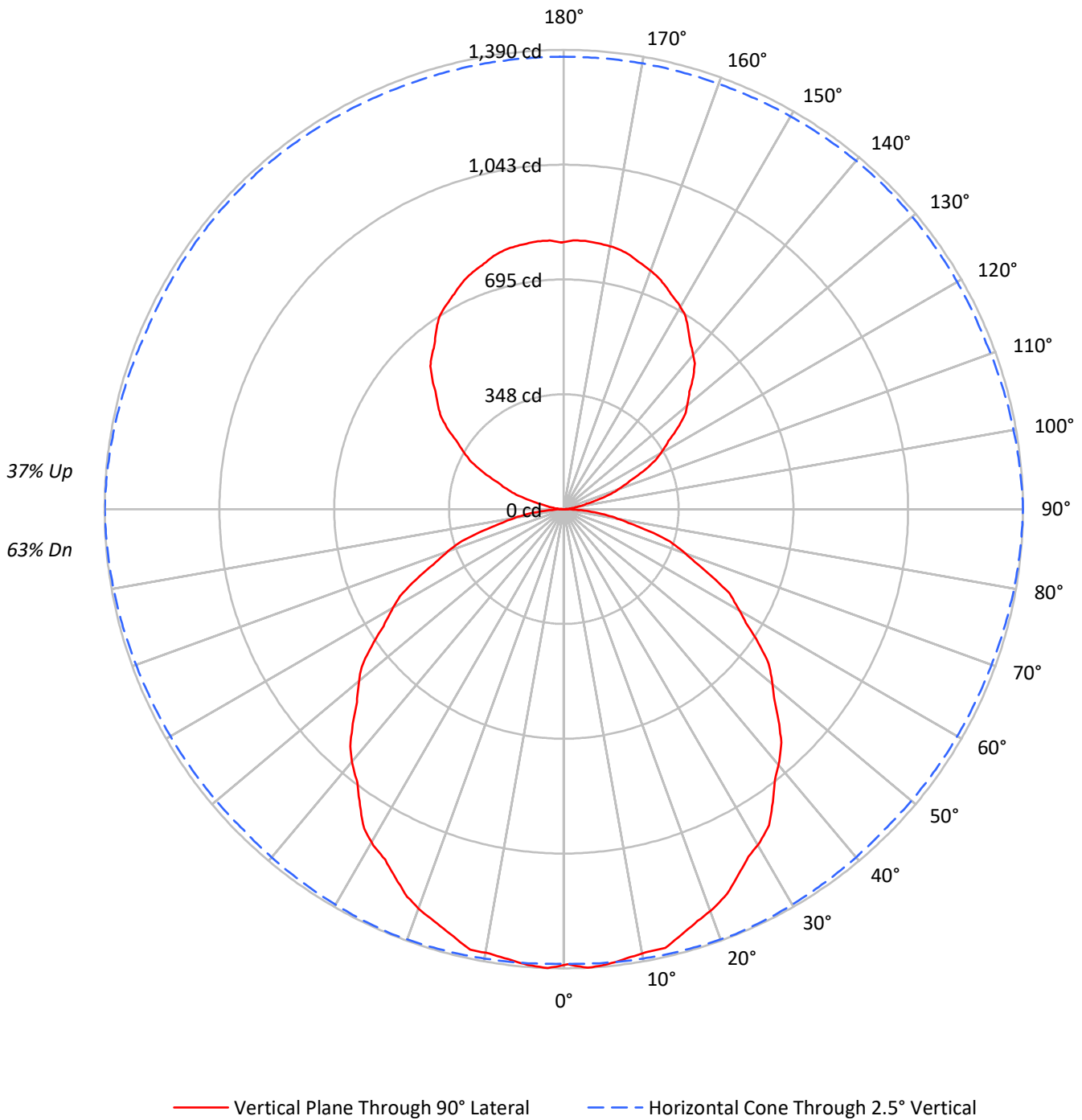
Lumens per Lamp: N/A  
Luminaire Lumens: 6103.9 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 62.2  
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	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	101	96	92	88	94	90	87	84	79	77	74	69	67	65	60	59	57	53
2	91	84	77	72	85	79	73	68	69	65	61	61	57	54	53	50	48	44
3	83	73	66	60	78	69	62	57	61	56	51	53	49	46	46	43	41	37
4	76	65	57	50	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	49	43	65	55	47	41	48	42	38	43	38	34	37	33	30	27
6	64	52	44	37	60	49	41	36	44	37	33	38	33	30	34	30	27	24
7	60	47	39	33	56	44	37	32	40	33	29	35	30	26	31	27	24	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	25	21	26	22	19	17
10	48	36	28	23	45	34	27	22	30	25	21	27	22	19	24	20	17	15

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

	0°	90°	180°
0°	22249	22249	22249
5°	22512	22431	22091
10°	22281	22363	22051
15°	22365	22332	21914
20°	21838	22182	21409
25°	21806	21859	21057
30°	21533	21813	20844
35°	21031	21465	20479
40°	20824	21182	20065
45°	20619	20801	19705
50°	19894	20522	19140
55°	19705	20127	18466
60°	18826	19536	17793
65°	17994	18911	16886
70°	17183	18033	15767
75°	15970	16594	14223
80°	13668	14505	11901
85°	10189	11300	8151



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	2.1
10°-20°	373.0	6.1
20°-30°	559.9	9.2
30°-40°	669.3	11.0
40°-50°	688.8	11.3
50°-60°	620.1	10.2
60°-70°	470.9	7.7
70°-80°	268.7	4.4
80°-90°	70.3	1.2
90°-100°	21.2	0.3
100°-110°	91.9	1.5
110°-120°	262.0	4.3
120°-130°	398.4	6.5
130°-140°	430.9	7.1
140°-150°	411.7	6.7
150°-160°	338.6	5.5
160°-170°	221.2	3.6
170°-180°	76.5	1.3
0°-30°	1063.4	17.4
0°-40°	1732.7	28.4
0°-60°	3041.6	49.8
0°-90°	3851.6	63.1
90°-120°	375.1	6.1
90°-150°	1616.0	26.5
90°-180°	2252.0	36.9
0°-180°	6103.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1378	1378	1378	1378	1378	
5°	1389	1378	1384	1360	1363	131
15°	1338	1330	1336	1317	1311	374
25°	1224	1231	1227	1214	1182	562
35°	1067	1093	1089	1065	1039	672
45°	903	910	911	891	863	690
55°	700	712	715	686	656	620
65°	471	484	495	461	442	468
75°	256	263	266	243	228	268
85°	55	63	61	55	44	66
90°	0	0	0	0	0	2
95°	3	5	14	34	32	4
105°	21	54	106	73	78	25
115°	193	514	265	126	142	266
125°	770	678	424	208	179	677
135°	852	772	558	346	274	657
145°	888	831	665	492	419	556
155°	898	859	742	616	559	415
165°	877	858	795	713	680	249
175°	826	828	814	785	763	80
180°	807	807	807	807	807	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0
2.5°	1376.4	1387.4	1372.4	1376.7	1390.0	1373.6	1378.0	1370.0	1369.2
5°	1389.0	1372.4	1378.0	1370.3	1384.0	1371.3	1360.0	1374.7	1363.0
7.5°	1365.4	1354.6	1376.6	1365.6	1372.8	1364.2	1365.4	1357.2	1357.0
10°	1359.0	1352.2	1359.0	1359.1	1364.0	1352.3	1351.0	1342.1	1345.0
12.5°	1340.6	1350.2	1339.8	1352.8	1363.2	1342.9	1335.0	1338.1	1343.4
15°	1338.0	1335.1	1330.0	1326.2	1336.0	1312.5	1317.0	1308.1	1311.0
17.5°	1297.4	1302.9	1305.4	1302.2	1311.0	1289.7	1284.6	1284.6	1286.0
20°	1271.0	1282.7	1291.0	1282.2	1291.0	1274.4	1271.0	1258.7	1246.0
22.5°	1256.6	1254.3	1271.0	1253.5	1265.4	1244.9	1254.2	1232.8	1239.6
25°	1224.0	1214.2	1231.0	1221.1	1227.0	1210.4	1214.0	1187.9	1182.0
27.5°	1180.6	1180.6	1190.8	1186.7	1190.8	1177.5	1173.8	1149.9	1147.6
30°	1155.0	1147.2	1166.0	1157.3	1170.0	1138.7	1141.0	1121.9	1118.0
32.5°	1120.6	1123.7	1136.4	1125.3	1140.4	1110.7	1116.2	1086.9	1091.6
35°	1067.0	1072.9	1093.0	1078.2	1089.0	1071.4	1065.0	1045.8	1039.0
37.5°	1032.8	1023.8	1033.6	1034.5	1037.8	1018.4	1011.4	988.2	990.4
40°	988.0	986.0	1000.0	1004.0	1005.0	986.4	981.0	953.0	952.0
42.5°	947.2	949.2	960.8	965.6	965.8	947.2	946.6	916.3	920.0
45°	903.0	900.1	910.0	909.0	911.0	891.4	891.0	862.0	863.0
47.5°	833.6	839.9	846.6	848.6	856.2	839.6	827.8	804.7	801.2
50°	792.0	803.7	805.0	814.1	817.0	796.5	787.0	767.9	762.0
52.5°	755.2	761.5	766.6	772.5	777.0	758.0	743.8	725.6	724.4
55°	700.0	696.1	712.0	710.1	715.0	700.3	686.0	665.8	656.0
57.5°	628.6	636.2	639.8	647.3	650.6	634.6	622.0	600.6	599.8
60°	583.0	593.8	595.0	607.9	605.0	591.3	578.0	558.8	551.0
62.5°	541.4	544.3	552.6	561.6	562.6	547.3	537.2	516.5	511.0
65°	471.0	476.9	484.0	496.0	495.0	484.2	461.0	449.8	442.0
67.5°	407.2	409.2	418.8	424.5	428.4	413.5	400.2	384.5	381.2
70°	364.0	362.0	374.0	378.1	382.0	370.3	357.0	342.8	334.0
72.5°	316.8	318.8	327.6	334.1	336.4	324.7	310.6	299.7	294.0
75°	256.0	254.0	263.0	267.0	266.0	257.2	243.0	235.8	228.0
77.5°	188.6	192.5	197.8	201.4	200.0	194.1	183.0	172.1	168.8
80°	147.0	150.9	157.0	158.9	156.0	150.1	143.0	132.9	128.0
82.5°	108.6	110.9	117.0	120.5	116.0	112.5	106.2	98.5	92.8
85°	55.0	57.0	63.0	64.9	61.0	61.0	55.0	47.9	44.0
87.5°	12.8	13.6	18.4	23.9	19.2	20.8	16.0	11.9	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	2.2	3.3	11.9	13.2	11.5	11.5
95°	3.4	3.4	4.8	15.1	14.4	24.4	34.3	32.2	32.2
97.5°	7.0	7.7	11.0	44.6	33.6	32.6	46.3	51.5	52.5
100°	10.3	10.9	16.4	72.8	50.0	42.7	50.7	60.3	62.4
102.5°	14.1	15.3	26.3	114.5	70.3	50.1	57.8	66.4	68.9
105°	21.2	23.3	54.1	192.0	106.2	65.3	72.6	76.1	78.1
107.5°	31.5	39.7	145.8	269.7	150.7	86.3	94.0	93.5	95.2
110°	42.5	59.2	252.2	312.3	183.6	102.6	102.8	108.2	106.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	70.4	117.7	376.0	353.2	216.5	122.1	111.0	123.1	123.8
115°	193.2	331.9	513.9	410.6	265.2	156.6	126.1	137.8	142.5
117.5°	479.1	577.5	584.5	461.5	313.7	195.2	143.3	148.6	154.7
120°	649.6	669.7	617.4	492.8	346.0	222.8	157.6	155.7	162.4
122.5°	716.5	709.2	644.2	521.9	377.8	251.9	175.1	164.4	169.0
125°	770.2	751.4	677.7	562.2	424.1	295.5	208.3	178.8	178.8
127.5°	802.3	780.4	708.4	597.9	465.9	339.6	248.2	202.3	196.0
130°	820.9	797.4	727.0	622.7	493.4	368.1	276.1	222.5	212.4
132.5°	835.1	813.8	744.6	642.0	520.2	396.0	304.1	247.5	231.1
135°	852.4	834.3	771.6	671.7	557.8	437.8	346.0	290.8	274.1
137.5°	863.5	849.4	795.8	696.0	592.6	479.3	388.4	332.9	317.8
140°	869.5	858.2	807.9	710.4	614.0	506.1	418.0	361.5	347.4
142.5°	875.6	866.3	816.6	726.4	634.8	532.8	447.0	390.5	375.4
145°	888.0	877.3	831.2	745.7	664.7	570.2	492.0	432.8	419.4
147.5°	896.8	883.9	843.1	766.5	692.9	604.1	533.2	476.1	462.8
150°	899.0	885.6	849.7	777.6	709.9	624.8	558.5	504.0	491.3
152.5°	897.4	887.2	854.6	787.0	724.1	644.9	581.5	530.9	519.3
155°	898.3	888.9	858.6	799.7	742.1	673.1	616.0	571.2	559.1
157.5°	894.2	888.0	861.3	809.5	758.7	698.2	647.7	610.0	597.8
160°	894.2	884.8	861.3	815.1	770.2	714.6	667.4	633.6	623.5
162.5°	888.2	879.9	860.8	819.1	781.1	729.8	686.0	654.5	647.1
165°	877.1	870.4	857.9	824.3	794.9	750.6	712.6	684.4	679.7
167.5°	868.4	859.2	852.4	824.1	804.2	765.6	735.1	711.7	709.1
170°	858.6	852.5	846.9	822.6	808.6	776.4	751.0	727.6	725.0
172.5°	846.0	842.6	839.8	821.6	811.3	785.6	764.7	743.5	738.7
175°	826.4	829.1	828.4	819.4	814.0	797.3	784.6	769.4	763.3
177.5°	814.3	813.2	816.0	814.3	813.8	803.6	800.1	789.7	792.9
180°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2

(END OF REPORT)