

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: P522356

Luminaire Tested: **SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522356  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

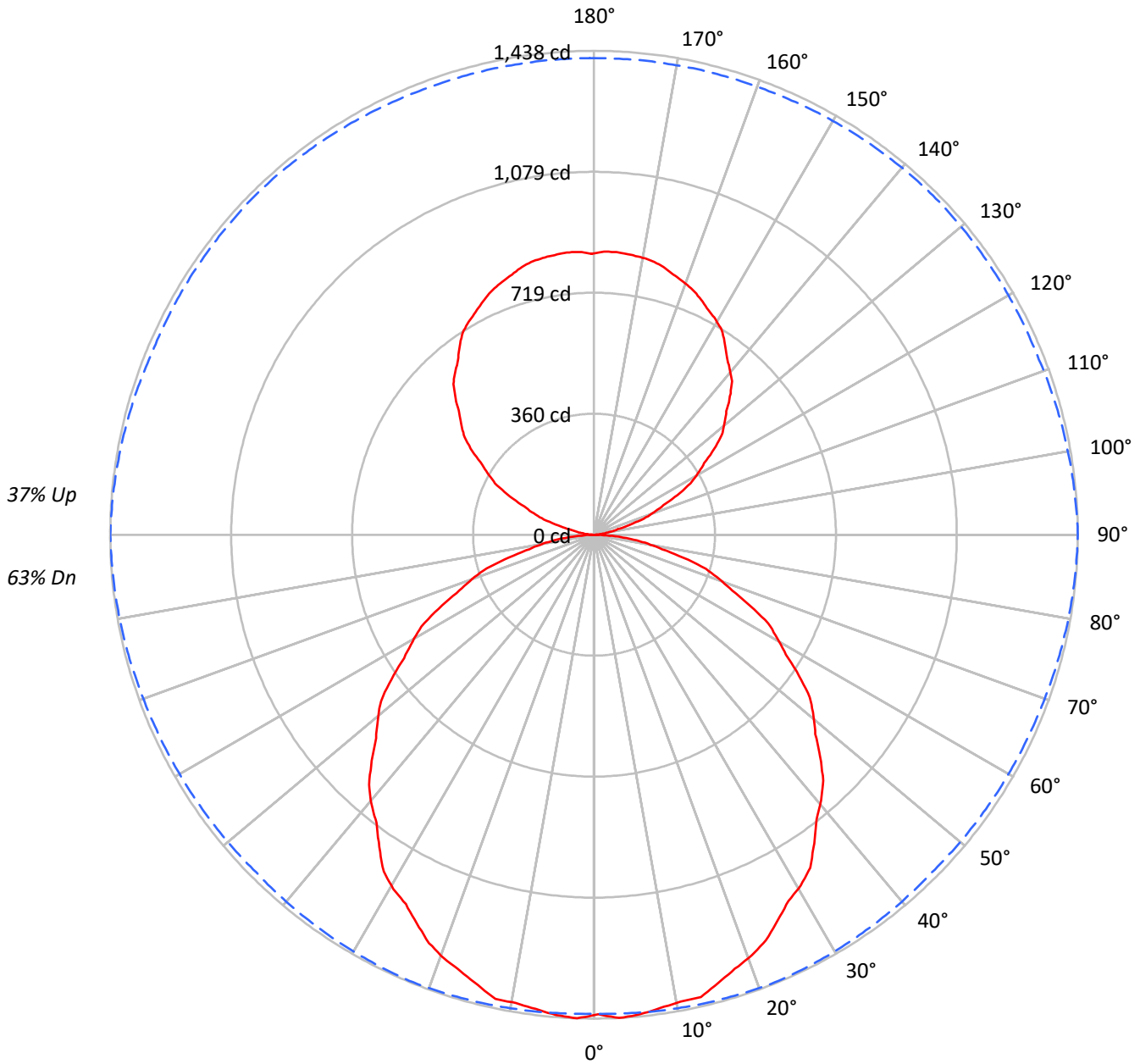
Lumens per Lamp: N/A  
Luminaire Lumens: 6315.8 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 62.1  
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



— Vertical Plane Through 90° Lateral      - - - Horizontal Cone Through 2.5° Vertical



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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°	23021	23021	23021
5°	23293	23211	22857
10°	23055	23140	22817
15°	23142	23107	22674
20°	22596	22952	22153
25°	22563	22618	21788
30°	22281	22570	21567
35°	21760	22210	21191
40°	21547	21918	20763
45°	21336	21523	20390
50°	20585	21235	19806
55°	20389	20825	19108
60°	19478	20215	18409
65°	18621	19568	17471
70°	17778	18661	16315
75°	16525	17168	14716
80°	14142	15007	12311
85°	10541	11689	8429



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.0	2.1
10°-20°	385.9	6.1
20°-30°	579.4	9.2
30°-40°	692.6	11.0
40°-50°	712.7	11.3
50°-60°	641.6	10.2
60°-70°	487.3	7.7
70°-80°	278.1	4.4
80°-90°	72.8	1.2
90°-100°	21.9	0.3
100°-110°	95.1	1.5
110°-120°	271.1	4.3
120°-130°	412.2	6.5
130°-140°	445.8	7.1
140°-150°	426.0	6.7
150°-160°	350.4	5.5
160°-170°	228.9	3.6
170°-180°	79.2	1.3
0°-30°	1100.3	17.4
0°-40°	1792.9	28.4
0°-60°	3147.2	49.8
0°-90°	3985.3	63.1
90°-120°	388.1	6.1
90°-150°	1672.1	26.5
90°-180°	2331.0	36.9
0°-180°	6315.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1426	1426	1426	1426	1426	
5°	1437	1426	1432	1407	1410	135
15°	1384	1376	1382	1363	1356	387
25°	1266	1274	1270	1256	1223	582
35°	1104	1131	1127	1102	1075	695
45°	934	942	943	922	893	714
55°	724	737	740	710	679	641
65°	487	501	512	477	457	485
75°	265	272	275	251	236	277
85°	57	65	63	57	46	68
90°	0	0	0	0	0	2
95°	4	5	15	36	33	4
105°	22	56	110	75	81	25
115°	200	532	274	130	148	275
125°	797	701	439	216	185	700
135°	882	798	577	358	284	680
145°	919	860	688	509	434	576
155°	930	888	768	637	579	430
165°	908	888	822	737	703	258
175°	855	857	842	812	790	83
180°	835	835	835	835	835	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1424.2	1435.5	1420.1	1424.5	1438.3	1421.3	1425.8	1417.6	1416.7
5°	1437.2	1420.0	1425.8	1417.9	1432.1	1418.9	1407.2	1422.5	1410.3
7.5°	1412.8	1401.7	1424.4	1413.0	1420.5	1411.6	1412.8	1404.3	1404.1
10°	1406.2	1399.1	1406.2	1406.3	1411.4	1399.2	1397.9	1388.7	1391.7
12.5°	1387.1	1397.1	1386.3	1399.8	1410.5	1389.5	1381.4	1384.6	1390.0
15°	1384.5	1381.4	1376.2	1372.3	1382.4	1358.1	1362.7	1353.5	1356.5
17.5°	1342.4	1348.1	1350.7	1347.4	1356.5	1334.5	1329.2	1329.2	1330.7
20°	1315.1	1327.3	1335.8	1326.7	1335.8	1318.6	1315.1	1302.4	1289.3
22.5°	1300.2	1297.8	1315.1	1297.0	1309.3	1288.1	1297.7	1275.6	1282.6
25°	1266.5	1256.4	1273.7	1263.5	1269.6	1252.4	1256.2	1229.1	1223.0
27.5°	1221.6	1221.6	1232.1	1227.9	1232.1	1218.4	1214.6	1189.9	1187.4
30°	1195.1	1187.0	1206.5	1197.5	1210.6	1178.2	1180.6	1160.9	1156.8
32.5°	1159.5	1162.7	1175.9	1164.4	1180.0	1149.2	1155.0	1124.6	1129.5
35°	1104.0	1110.1	1131.0	1115.7	1126.8	1108.6	1102.0	1082.2	1075.1
37.5°	1068.7	1059.4	1069.5	1070.4	1073.8	1053.8	1046.5	1022.6	1024.8
40°	1022.3	1020.3	1034.7	1038.9	1039.9	1020.7	1015.1	986.1	985.1
42.5°	980.1	982.1	994.2	999.1	999.3	980.1	979.5	948.1	951.9
45°	934.4	931.3	941.6	940.6	942.6	922.4	921.9	892.0	893.0
47.5°	862.5	869.0	876.0	878.0	885.9	868.7	856.5	832.7	829.0
50°	819.5	831.6	833.0	842.3	845.4	824.1	814.3	794.5	788.5
52.5°	781.4	787.9	793.2	799.3	804.0	784.4	769.6	750.8	749.6
55°	724.3	720.3	736.7	734.8	739.8	724.6	709.8	688.9	678.8
57.5°	650.4	658.3	662.0	669.7	673.2	656.6	643.6	621.4	620.6
60°	603.2	614.4	615.7	629.0	626.0	611.8	598.1	578.2	570.1
62.5°	560.2	563.2	571.8	581.1	582.1	566.4	555.9	534.4	528.7
65°	487.4	493.4	500.8	513.2	512.2	501.1	477.0	465.4	457.3
67.5°	421.3	423.4	433.3	439.2	443.3	427.9	414.1	397.9	394.4
70°	376.6	374.6	387.0	391.2	395.3	383.1	369.4	354.7	345.6
72.5°	327.8	329.8	339.0	345.7	348.1	335.9	321.4	310.1	304.2
75°	264.9	262.9	272.1	276.2	275.2	266.1	251.4	244.0	235.9
77.5°	195.1	199.2	204.7	208.4	206.9	200.9	189.4	178.1	174.7
80°	152.1	156.2	162.5	164.5	161.4	155.3	148.0	137.5	132.4
82.5°	112.4	114.8	121.1	124.7	120.0	116.4	109.9	101.9	96.0
85°	56.9	58.9	65.2	67.2	63.1	63.1	56.9	49.6	45.5
87.5°	13.2	14.1	19.0	24.7	19.9	21.5	16.6	12.3	9.1
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	2.3	3.4	12.3	13.6	11.9	11.9
95°	3.5	3.5	5.0	15.6	14.9	25.3	35.5	33.3	33.3
97.5°	7.2	7.9	11.3	46.1	34.7	33.8	47.9	53.3	54.3
100°	10.6	11.3	17.0	75.3	51.8	44.1	52.5	62.4	64.5
102.5°	14.6	15.9	27.2	118.5	72.7	51.8	59.8	68.7	71.3
105°	22.0	24.1	56.0	198.6	109.9	67.6	75.2	78.7	80.8
107.5°	32.6	41.1	150.9	279.1	156.0	89.3	97.3	96.7	98.6
110°	44.0	61.3	260.9	323.1	190.0	106.1	106.4	112.0	109.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	72.9	121.8	389.1	365.5	224.0	126.3	114.9	127.4	128.0
115°	199.9	343.4	531.8	424.8	274.4	162.1	130.5	142.6	147.5
117.5°	495.7	597.5	604.8	477.5	324.6	202.0	148.3	153.7	160.1
120°	672.1	692.9	638.8	509.9	358.0	230.5	163.1	161.1	168.0
122.5°	741.3	733.9	666.6	540.0	390.9	260.6	181.2	170.1	174.8
125°	796.9	777.5	701.2	581.7	438.9	305.8	215.5	185.1	185.1
127.5°	830.1	807.5	733.0	618.7	482.1	351.4	256.8	209.3	202.8
130°	849.4	825.1	752.3	644.3	510.5	380.8	285.7	230.2	219.8
132.5°	864.1	842.1	770.4	664.3	538.3	409.7	314.7	256.1	239.1
135°	882.0	863.3	798.3	695.0	577.1	453.0	358.0	300.9	283.6
137.5°	893.5	878.9	823.4	720.2	613.2	496.0	401.9	344.5	328.8
140°	899.7	887.9	835.9	735.1	635.3	523.7	432.5	374.0	359.5
142.5°	906.0	896.4	845.0	751.7	656.8	551.3	462.6	404.1	388.4
145°	918.9	907.8	860.0	771.6	687.7	590.0	509.1	447.8	433.9
147.5°	927.9	914.6	872.4	793.1	716.9	625.0	551.7	492.6	478.9
150°	930.2	916.4	879.2	804.6	734.5	646.5	577.8	521.5	508.4
152.5°	928.5	918.0	884.3	814.3	749.3	667.3	601.7	549.3	537.3
155°	929.5	919.8	888.4	827.5	767.9	696.5	637.4	591.0	578.6
157.5°	925.3	918.9	891.2	837.6	785.0	722.5	670.2	631.2	618.5
160°	925.3	915.5	891.2	843.4	796.9	739.4	690.6	655.6	645.2
162.5°	919.0	910.4	890.7	847.5	808.3	755.2	709.9	677.2	669.6
165°	907.5	900.6	887.7	853.0	822.4	776.7	737.4	708.2	703.3
167.5°	898.6	889.0	882.0	852.8	832.1	792.2	760.6	736.5	733.7
170°	888.4	882.1	876.3	851.2	836.6	803.4	777.1	752.9	750.1
172.5°	875.3	871.9	869.0	850.1	839.5	812.8	791.3	769.3	764.3
175°	855.1	857.8	857.2	847.8	842.3	825.0	811.8	796.1	789.8
177.5°	842.6	841.5	844.3	842.6	842.0	831.5	827.8	817.1	820.5
180°	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2

(END OF REPORT)