

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: P522355

Luminaire Tested: **SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522355  
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 (4000K)  
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 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

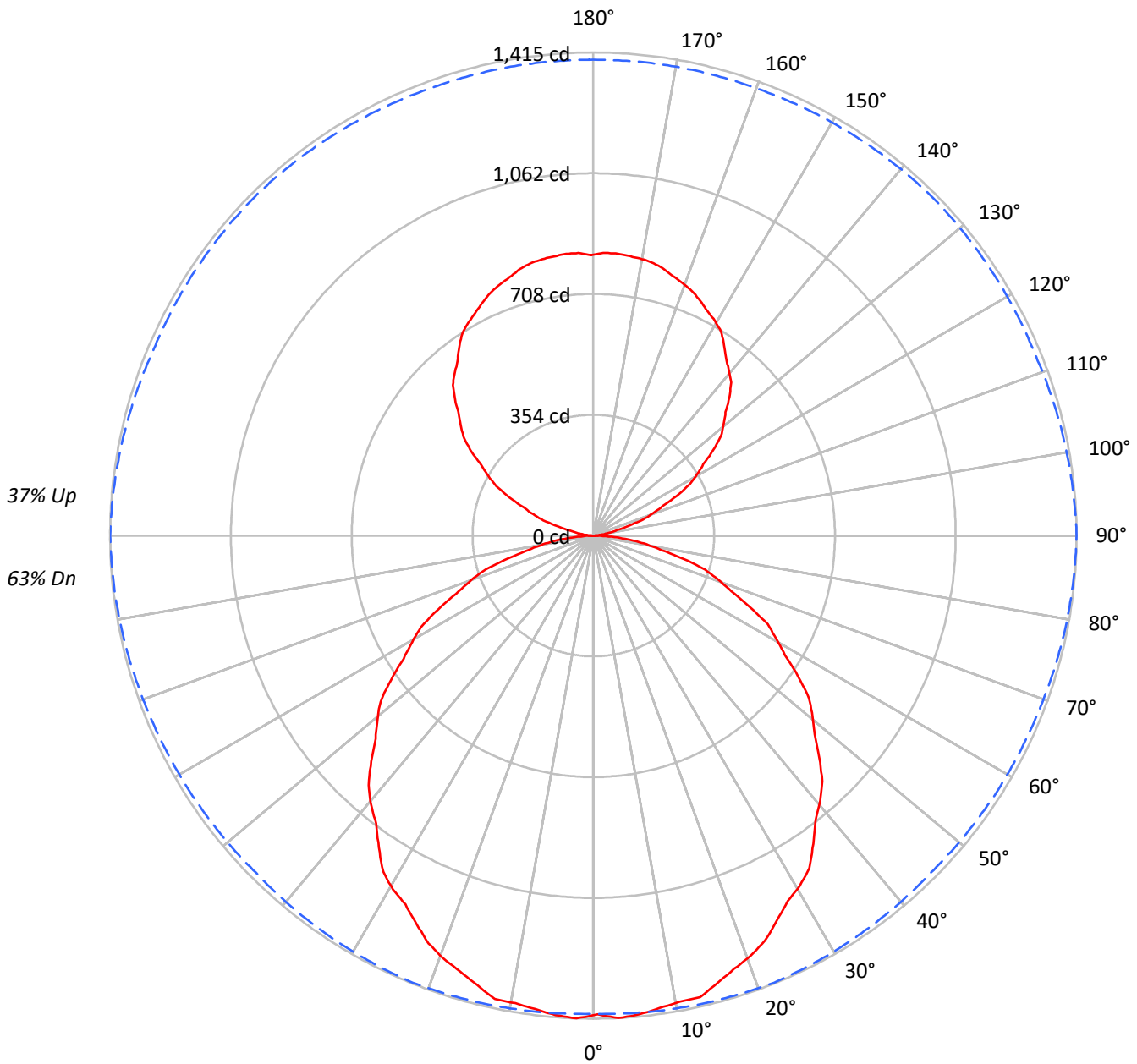
Lumens per Lamp: N/A  
Luminaire Lumens: 6215.6 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

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



— 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	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°	22656	22656	22656
5°	22924	22841	22494
10°	22689	22773	22454
15°	22775	22740	22315
20°	22239	22588	21801
25°	22205	22258	21442
30°	21927	22212	21226
35°	21415	21857	20854
40°	21205	21570	20432
45°	20996	21183	20066
50°	20258	20896	19489
55°	20065	20496	18804
60°	19172	19895	18119
65°	18323	19259	17196
70°	17500	18364	16055
75°	16263	16899	14485
80°	13919	14775	12115
85°	10374	11504	8299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	2.1
10°-20°	379.8	6.1
20°-30°	570.2	9.2
30°-40°	681.6	11.0
40°-50°	701.4	11.3
50°-60°	631.4	10.2
60°-70°	479.6	7.7
70°-80°	273.6	4.4
80°-90°	71.6	1.2
90°-100°	21.6	0.3
100°-110°	93.6	1.5
110°-120°	266.8	4.3
120°-130°	405.6	6.5
130°-140°	438.7	7.1
140°-150°	419.2	6.7
150°-160°	344.8	5.5
160°-170°	225.3	3.6
170°-180°	77.9	1.3
0°-30°	1082.8	17.4
0°-40°	1764.4	28.4
0°-60°	3097.2	49.8
0°-90°	3922.1	63.1
90°-120°	381.9	6.1
90°-150°	1645.5	26.5
90°-180°	2294.0	36.9
0°-180°	6215.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1403	1403	1403	1403	1403	
5°	1414	1403	1409	1385	1388	133
15°	1362	1354	1360	1341	1335	381
25°	1246	1254	1249	1236	1204	573
35°	1086	1113	1109	1084	1058	684
45°	920	927	928	907	879	702
55°	713	725	728	699	668	631
65°	480	493	504	469	450	477
75°	261	268	271	247	232	273
85°	56	64	62	56	45	67
90°	0	0	0	0	0	2
95°	4	5	15	35	33	4
105°	22	55	108	74	80	25
115°	197	523	270	128	145	271
125°	784	690	432	212	182	689
135°	868	786	568	352	279	669
145°	904	846	677	501	427	566
155°	915	874	756	627	569	423
165°	893	874	809	726	692	254
175°	842	844	829	799	777	82
180°	822	822	822	822	822	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1401.6	1412.7	1397.5	1401.9	1415.4	1398.7	1403.2	1395.0	1394.3
5°	1414.4	1397.5	1403.2	1395.4	1409.3	1396.4	1384.9	1399.9	1387.9
7.5°	1390.4	1379.4	1401.8	1390.5	1397.9	1389.2	1390.4	1382.0	1381.8
10°	1383.9	1376.9	1383.9	1384.0	1389.0	1377.0	1375.7	1366.6	1369.6
12.5°	1365.1	1374.9	1364.3	1377.6	1388.1	1367.4	1359.4	1362.6	1368.0
15°	1362.5	1359.5	1354.3	1350.5	1360.4	1336.5	1341.1	1332.0	1335.0
17.5°	1321.1	1326.7	1329.3	1326.0	1335.0	1313.3	1308.1	1308.1	1309.5
20°	1294.3	1306.2	1314.6	1305.7	1314.6	1297.7	1294.3	1281.7	1268.8
22.5°	1279.6	1277.2	1294.3	1276.4	1288.6	1267.6	1277.1	1255.3	1262.3
25°	1246.4	1236.4	1253.5	1243.5	1249.4	1232.5	1236.2	1209.6	1203.6
27.5°	1202.2	1202.2	1212.6	1208.4	1212.6	1199.0	1195.3	1171.0	1168.6
30°	1176.1	1168.2	1187.3	1178.5	1191.4	1159.5	1161.9	1142.4	1138.5
32.5°	1141.1	1144.3	1157.2	1145.9	1161.3	1131.0	1136.6	1106.8	1111.6
35°	1086.5	1092.5	1113.0	1098.0	1108.9	1091.0	1084.5	1065.0	1058.0
37.5°	1051.7	1042.5	1052.5	1053.4	1056.8	1037.1	1029.9	1006.3	1008.5
40°	1006.1	1004.1	1018.3	1022.4	1023.4	1004.5	998.9	970.4	969.4
42.5°	964.5	966.5	978.4	983.3	983.5	964.6	963.9	933.0	936.8
45°	919.5	916.5	926.6	925.7	927.7	907.8	907.3	877.8	878.8
47.5°	848.9	855.2	862.1	864.1	871.9	854.9	842.9	819.4	815.9
50°	806.5	818.4	819.7	829.0	831.9	811.0	801.4	781.9	775.9
52.5°	769.0	775.4	780.6	786.6	791.2	771.9	757.4	738.8	737.7
55°	712.8	708.8	725.0	723.1	728.1	713.1	698.6	678.0	668.0
57.5°	640.1	647.9	651.5	659.1	662.5	646.2	633.4	611.6	610.8
60°	593.7	604.6	605.9	619.1	616.1	602.1	588.6	569.0	561.1
62.5°	551.3	554.3	562.7	571.9	572.9	557.4	547.0	525.9	520.3
65°	479.6	485.6	492.9	505.1	504.1	493.1	469.4	458.1	450.1
67.5°	414.6	416.6	426.5	432.3	436.2	421.1	407.5	391.6	388.2
70°	370.7	368.7	380.8	385.0	389.0	377.0	363.5	349.1	340.1
72.5°	322.6	324.6	333.6	340.2	342.6	330.6	316.3	305.2	299.4
75°	260.7	258.7	267.8	271.9	270.9	261.9	247.4	240.1	232.2
77.5°	192.1	196.0	201.4	205.1	203.7	197.7	186.3	175.3	171.9
80°	149.7	153.7	159.9	161.8	158.9	152.9	145.6	135.3	130.3
82.5°	110.6	113.0	119.1	122.7	118.1	114.5	108.1	100.3	94.5
85°	56.0	58.0	64.2	66.1	62.1	62.1	56.0	48.8	44.8
87.5°	13.0	13.8	18.7	24.3	19.6	21.1	16.3	12.1	9.0
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	3.3	12.1	13.4	11.7	11.7
95°	3.5	3.5	4.9	15.3	14.7	24.9	34.9	32.8	32.8
97.5°	7.1	7.8	11.2	45.4	34.2	33.2	47.2	52.5	53.4
100°	10.5	11.1	16.7	74.1	50.9	43.4	51.6	61.4	63.5
102.5°	14.4	15.6	26.8	116.6	71.6	51.0	58.9	67.6	70.2
105°	21.6	23.7	55.1	195.5	108.2	66.5	74.0	77.5	79.5
107.5°	32.1	40.4	148.5	274.7	153.5	87.9	95.7	95.2	97.0
110°	43.3	60.3	256.8	318.0	187.0	104.4	104.7	110.2	108.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	71.7	119.9	382.9	359.7	220.5	124.3	113.0	125.3	126.0
115°	196.8	338.0	523.3	418.1	270.0	159.5	128.4	140.4	145.1
117.5°	487.9	588.0	595.2	469.9	319.4	198.8	146.0	151.3	157.6
120°	661.5	681.9	628.7	501.8	352.4	226.8	160.5	158.5	165.4
122.5°	729.6	722.2	656.0	531.4	384.7	256.5	178.3	167.4	172.1
125°	784.3	765.2	690.1	572.5	431.9	300.9	212.1	182.1	182.1
127.5°	816.9	794.7	721.3	608.9	474.5	345.8	252.7	206.0	199.6
130°	835.9	812.0	740.3	634.1	502.4	374.8	281.2	226.5	216.3
132.5°	850.4	828.7	758.2	653.8	529.7	403.2	309.7	252.1	235.3
135°	868.0	849.6	785.7	684.0	568.0	445.8	352.4	296.2	279.1
137.5°	879.3	865.0	810.4	708.8	603.4	488.1	395.5	339.0	323.6
140°	885.4	873.8	822.7	723.4	625.2	515.3	425.6	368.1	353.8
142.5°	891.6	882.2	831.6	739.7	646.4	542.6	455.2	397.6	382.2
145°	904.3	893.4	846.4	759.4	676.8	580.6	501.0	440.7	427.0
147.5°	913.2	900.1	858.5	780.5	705.6	615.1	543.0	484.8	471.3
150°	915.5	901.8	865.2	791.8	722.9	636.2	568.7	513.3	500.3
152.5°	913.8	903.4	870.2	801.4	737.4	656.7	592.1	540.6	528.8
155°	914.8	905.2	874.3	814.3	755.7	685.4	627.3	581.6	569.4
157.5°	910.6	904.3	877.1	824.3	772.6	711.0	659.5	621.1	608.7
160°	910.6	901.0	877.1	830.0	784.3	727.6	679.6	645.2	635.0
162.5°	904.4	896.0	876.5	834.1	795.4	743.2	698.6	666.5	659.0
165°	893.1	886.3	873.6	839.4	809.4	764.4	725.7	696.9	692.2
167.5°	884.3	874.9	868.0	839.2	818.9	779.6	748.5	724.8	722.0
170°	874.3	868.1	862.4	837.7	823.3	790.6	764.7	741.0	738.2
172.5°	861.4	858.0	855.2	836.6	826.1	799.9	778.7	757.1	752.2
175°	841.5	844.2	843.6	834.4	828.9	811.9	798.9	783.4	777.3
177.5°	829.2	828.1	830.9	829.2	828.7	818.3	814.7	804.2	807.4
180°	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0

(END OF REPORT)