

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: P522315

Luminaire Tested: **SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522315  
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-025U-100D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

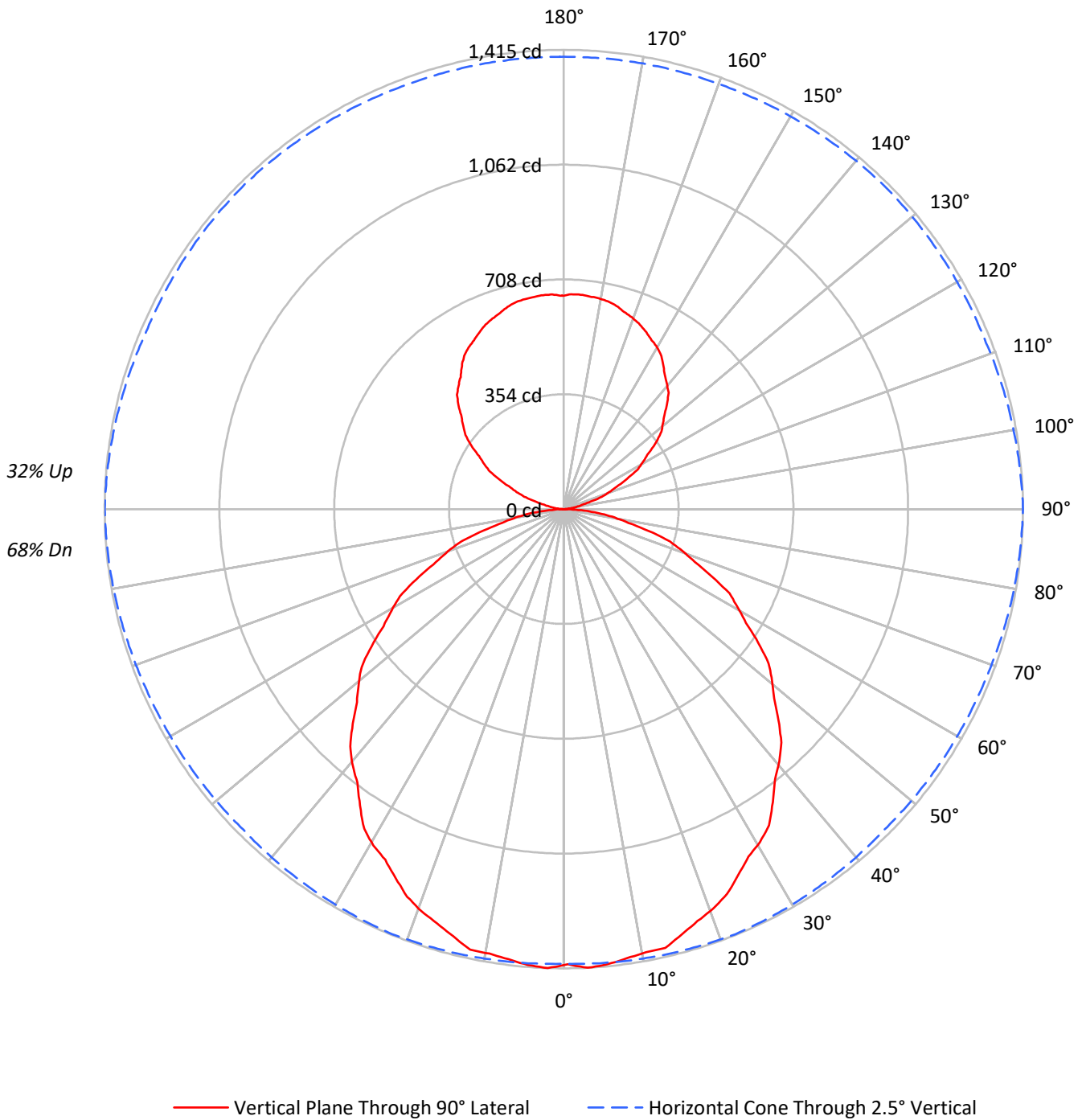
Lumens per Lamp: N/A  
Luminaire Lumens: 5755.7 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 58.7  
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68				
1	102	97	93	89	96	92	88	85	82	79	77	73	71	69	64	63	61	57				
2	92	85	78	73	87	80	74	69	71	67	63	64	60	57	56	54	51	47				
3	84	74	67	60	79	70	63	58	63	57	53	56	52	48	50	46	43	40				
4	77	66	57	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34				
5	71	59	50	44	66	56	48	42	50	44	39	45	40	36	40	36	32	29				
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	28	26				
7	60	47	39	33	57	45	38	32	41	34	30	37	31	27	33	29	25	23				
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20				
9	52	39	32	26	49	38	30	26	34	28	24	31	26	22	28	24	20	18				
10	49	36	29	24	46	35	28	23	32	26	21	29	24	20	26	22	18	17				

**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	2.3
10°-20°	379.8	6.6
20°-30°	570.2	9.9
30°-40°	681.6	11.8
40°-50°	701.4	12.2
50°-60°	631.4	11.0
60°-70°	479.6	8.3
70°-80°	273.6	4.8
80°-90°	71.6	1.2
90°-100°	17.3	0.3
100°-110°	74.8	1.3
110°-120°	213.3	3.7
120°-130°	324.3	5.6
130°-140°	350.8	6.1
140°-150°	335.2	5.8
150°-160°	275.6	4.8
160°-170°	180.1	3.1
170°-180°	62.3	1.1
0°-30°	1082.8	18.8
0°-40°	1764.4	30.7
0°-60°	3097.2	53.8
0°-90°	3922.1	68.1
90°-120°	305.3	5.3
90°-150°	1315.6	22.9
90°-180°	1834.0	31.9
0°-180°	5755.7	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°	3	4	12	28	26	4
105°	17	44	86	59	64	20
115°	157	418	216	103	116	216
125°	627	552	345	170	146	551
135°	694	628	454	282	223	535
145°	723	677	541	400	341	453
155°	731	699	604	502	455	338
165°	714	698	647	580	553	203
175°	673	674	663	639	621	65
180°	657	657	657	657	657	



TEST NUMBER: P522315

CATALOG NUMBER: SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (4000K)

**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°	0.9	0.9	0.9	1.8	2.7	9.7	10.7	9.4	9.4
95°	2.8	2.8	3.9	12.3	11.7	19.9	27.9	26.2	26.2
97.5°	5.7	6.2	8.9	36.3	27.3	26.6	37.7	42.0	42.7
100°	8.4	8.9	13.4	59.3	40.7	34.7	41.3	49.1	50.8
102.5°	11.5	12.5	21.4	93.2	57.2	40.8	47.1	54.0	56.1
105°	17.3	18.9	44.1	156.3	86.5	53.2	59.1	62.0	63.6
107.5°	25.7	32.3	118.7	219.6	122.7	70.3	76.5	76.1	77.5
110°	34.6	48.2	205.3	254.2	149.5	83.5	83.7	88.1	86.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	57.3	95.9	306.1	287.5	176.3	99.4	90.4	100.2	100.7
115°	157.3	270.2	418.4	334.2	215.9	127.5	102.6	112.2	116.0
117.5°	390.0	470.1	475.8	375.7	255.4	158.9	116.7	120.9	126.0
120°	528.8	545.2	502.6	401.2	281.7	181.3	128.3	126.8	132.2
122.5°	583.3	577.4	524.5	424.9	307.6	205.0	142.6	133.9	137.6
125°	627.0	611.7	551.7	457.7	345.3	240.6	169.6	145.6	145.6
127.5°	653.1	635.3	576.7	486.8	379.3	276.5	202.0	164.7	159.5
130°	668.3	649.2	591.9	506.9	401.6	299.6	224.8	181.1	172.9
132.5°	679.9	662.5	606.1	522.7	423.5	322.4	247.6	201.5	188.1
135°	693.9	679.2	628.1	546.8	454.1	356.4	281.7	236.8	223.1
137.5°	703.0	691.5	647.9	566.6	482.4	390.2	316.2	271.1	258.7
140°	707.9	698.6	657.7	578.4	499.8	412.0	340.3	294.3	282.8
142.5°	712.8	705.3	664.8	591.4	516.8	433.8	363.9	317.9	305.6
145°	723.0	714.2	676.7	607.1	541.1	464.2	400.5	352.3	341.4
147.5°	730.1	719.6	686.4	624.0	564.1	491.8	434.1	387.6	376.8
150°	731.9	721.0	691.7	633.0	577.9	508.6	454.6	410.3	400.0
152.5°	730.5	722.2	695.7	640.7	589.5	525.0	473.4	432.2	422.7
155°	731.3	723.7	699.0	651.0	604.1	548.0	501.5	465.0	455.2
157.5°	728.0	723.0	701.2	659.0	617.6	568.4	527.3	496.6	486.7
160°	728.0	720.3	701.2	663.6	627.0	581.7	543.3	515.8	507.6
162.5°	723.1	716.3	700.8	666.8	635.9	594.2	558.5	532.8	526.8
165°	714.0	708.6	698.4	671.1	647.1	611.1	580.1	557.2	553.4
167.5°	707.0	699.5	693.9	670.9	654.7	623.3	598.4	579.4	577.2
170°	699.0	694.1	689.5	669.7	658.2	632.1	611.4	592.4	590.2
172.5°	688.7	686.0	683.7	668.9	660.5	639.5	622.5	605.3	601.3
175°	672.7	674.9	674.4	667.1	662.7	649.1	638.7	626.3	621.4
177.5°	662.9	662.1	664.3	662.9	662.5	654.2	651.3	642.9	645.5
180°	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1

(END OF REPORT)