

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: P522414

Luminaire Tested: **SQW-F-0U-025D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522414  
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-0U-025D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

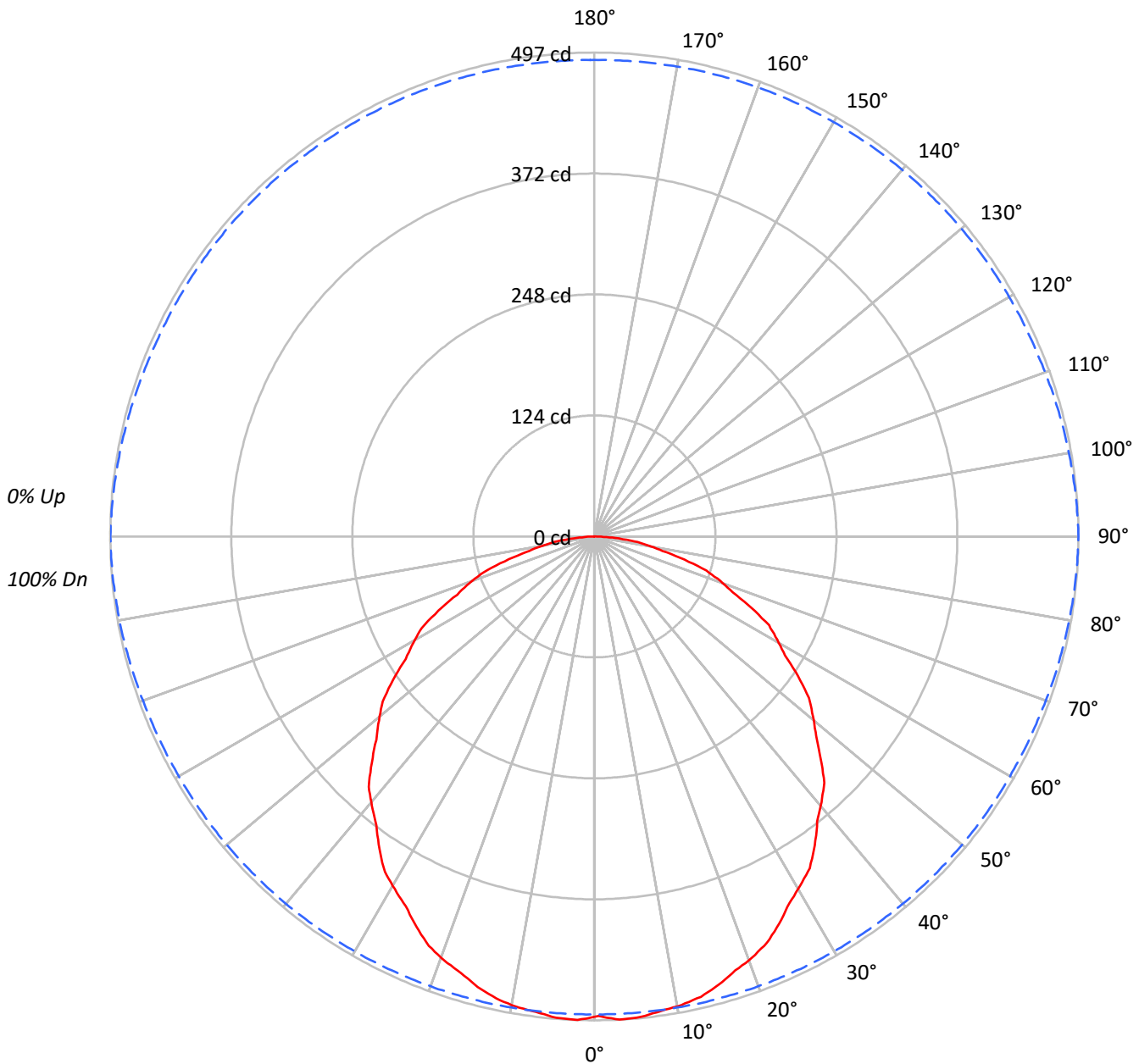
Lumens per Lamp: N/A  
Luminaire Lumens: 1373.2 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.2  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34				34
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

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

	0°	90°	180°
0°	7949	7949	7949
5°	7963	8031	7911
10°	7950	8020	7863
15°	7928	7982	7804
20°	7876	7931	7730
25°	7750	7844	7580
30°	7676	7754	7457
35°	7592	7675	7340
40°	7470	7558	7179
45°	7341	7437	7003
50°	7196	7302	6769
55°	6959	7139	6570
60°	6749	6956	6303
65°	6403	6770	5998
70°	6061	6463	5608
75°	5627	5958	5028
80°	5030	5225	4435
85°	3742	3927	2946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.6	3.4
10°-20°	133.2	9.7
20°-30°	200.2	14.6
30°-40°	239.4	17.4
40°-50°	246.1	17.9
50°-60°	219.9	16.0
60°-70°	167.0	12.2
70°-80°	95.4	6.9
80°-90°	25.2	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	380.0	27.7
0°-40°	619.4	45.1
0°-60°	1085.5	79.0
0°-90°	1373.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	492	492	492	492	492	
5°	491	491	496	490	488	47
15°	474	475	478	471	467	134
25°	435	440	440	433	426	201
35°	385	390	389	381	372	241
45°	322	326	326	316	307	248
55°	247	252	254	241	233	221
65°	168	173	177	164	157	166
75°	90	93	96	86	81	96
85°	20	23	21	19	16	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3
2.5°	490.6	491.5	492.3	492.4	496.6	491.6	491.5	490.6	488.9
5°	491.3	491.3	491.3	490.3	495.5	489.3	490.2	488.1	488.1
7.5°	488.3	487.5	487.7	486.5	491.7	485.3	485.3	484.1	483.8
10°	484.9	484.9	486.0	484.0	489.2	481.9	482.8	480.6	479.6
12.5°	481.5	480.7	481.7	479.7	484.9	477.6	477.7	474.7	474.5
15°	474.3	474.3	475.4	473.3	477.5	471.3	471.1	467.9	466.9
17.5°	465.2	465.0	467.3	464.2	468.4	461.1	461.1	458.3	456.7
20°	458.4	457.3	460.5	457.4	461.6	454.3	455.2	449.9	449.9
22.5°	449.9	448.9	452.9	448.9	453.1	445.8	446.7	440.5	439.7
25°	435.0	436.1	440.3	437.2	440.3	433.1	432.9	426.5	425.5
27.5°	422.7	421.9	427.4	423.0	426.1	418.9	418.9	411.2	410.2
30°	411.7	411.7	418.1	412.8	415.9	408.7	409.6	401.1	400.0
32.5°	401.5	401.5	407.0	403.5	405.8	398.5	397.7	390.0	389.0
35°	385.2	385.2	390.5	387.3	389.4	382.2	380.9	372.4	372.4
37.5°	367.1	366.3	371.4	369.3	371.4	364.3	361.8	354.4	353.3
40°	354.4	354.4	358.6	356.6	358.6	352.4	349.1	341.6	340.6
42.5°	340.8	340.8	345.9	343.8	345.9	338.9	335.5	328.1	327.0
45°	321.5	321.5	325.7	324.7	325.7	319.5	316.2	307.7	306.7
47.5°	300.9	300.1	304.1	304.4	306.0	299.2	294.8	286.7	285.6
50°	286.5	286.5	289.7	290.7	290.7	285.5	281.2	270.6	269.5
52.5°	269.5	270.3	273.5	274.6	275.5	268.6	264.2	256.1	255.1
55°	247.2	246.2	251.5	252.6	253.6	247.4	240.9	234.5	233.4
57.5°	224.3	224.1	228.6	229.8	230.7	225.5	219.0	211.8	210.5
60°	209.0	208.0	213.3	215.4	215.4	210.2	203.7	197.3	195.2
62.5°	191.2	193.5	197.1	199.3	201.0	194.9	187.6	182.0	180.0
65°	167.6	168.7	173.0	175.1	177.2	171.0	164.5	159.1	157.0
67.5°	143.7	145.5	148.8	150.9	153.0	147.0	140.5	136.0	134.1
70°	128.4	129.4	132.6	134.8	136.9	131.7	125.2	119.9	118.8
72.5°	113.1	114.1	117.4	118.7	119.9	114.7	109.1	105.4	103.6
75°	90.2	91.2	93.4	94.5	95.5	90.3	85.9	82.7	80.6
77.5°	68.5	68.5	70.7	71.5	71.5	68.4	64.3	61.3	59.6
80°	54.1	54.1	56.2	56.2	56.2	53.1	49.9	47.7	47.7
82.5°	39.7	40.5	42.7	42.6	41.8	39.5	37.1	35.0	35.0
85°	20.2	21.2	23.3	23.3	21.2	21.2	19.1	18.0	15.9
87.5°	5.1	5.9	7.6	8.5	6.8	6.8	5.1	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)