

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: P522572

Luminaire Tested: **SQW-F-0U-050D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522572  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-0U-050D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

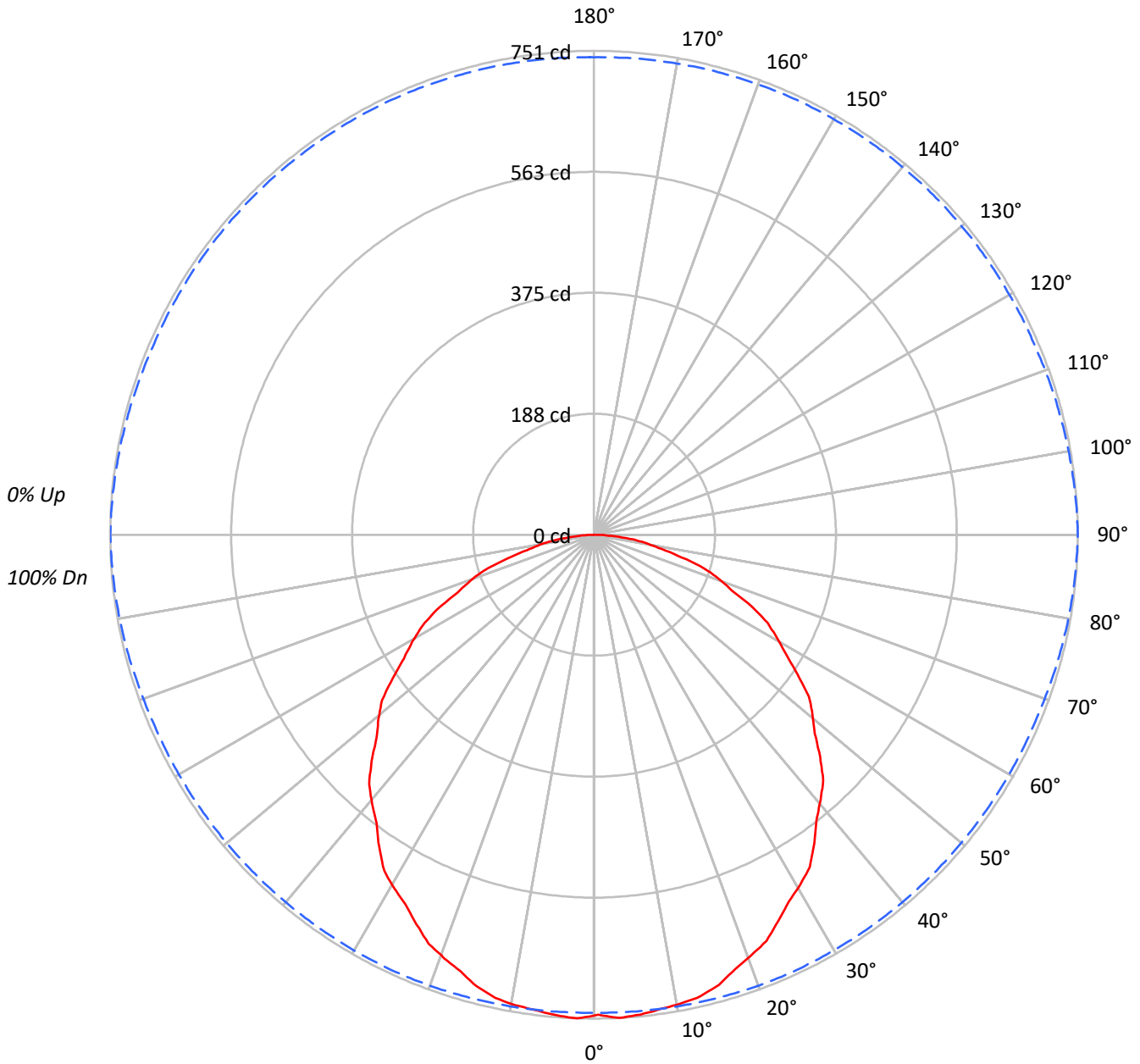
Lumens per Lamp: N/A  
Luminaire Lumens: 2073.7 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	89	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	69	63	72	67	62	70	65	61	59				59
4	83	71	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	46	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	61	47	38	33	59	46	38	32	45	38	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	27	38	31	26	37	31	26	36	30	26	24				24

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

	0°	90°	180°
0°	12029	12029	12029
5°	12075	12123	11992
10°	12080	12131	11929
15°	11990	12110	11768
20°	11919	11972	11620
25°	11829	11829	11484
30°	11654	11749	11233
35°	11452	11594	10989
40°	11274	11405	10777
45°	11113	11232	10460
50°	10889	11042	10218
55°	10587	10787	9866
60°	10259	10556	9429
65°	9906	10296	8967
70°	9385	9673	8224
75°	8696	8759	7417
80°	7717	7810	6007
85°	6076	5891	4168



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.5	3.4
10°-20°	201.3	9.7
20°-30°	302.9	14.6
30°-40°	361.5	17.4
40°-50°	371.2	17.9
50°-60°	333.6	16.1
60°-70°	252.9	12.2
70°-80°	142.7	6.9
80°-90°	37.0	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°	574.8	27.7
0°-40°	936.3	45.1
0°-60°	1641.1	79.1
0°-90°	2073.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2073.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	745	745	745	745	745	
5°	745	744	748	743	740	71
15°	717	720	724	708	704	202
25°	664	666	664	655	645	305
35°	581	590	588	573	558	364
45°	487	493	492	473	458	375
55°	376	383	383	365	350	336
65°	259	266	270	246	235	256
75°	139	141	140	127	119	148
85°	33	36	32	27	22	39
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°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	741.7	744.9	744.2	743.5	750.7	744.3	745.0	744.1	740.9
5°	745.0	743.0	743.9	743.0	748.0	742.0	742.9	739.9	739.9
7.5°	741.7	738.5	739.4	738.7	743.1	736.3	735.1	731.3	734.9
10°	736.8	732.8	733.7	733.8	739.9	729.8	728.6	725.6	727.6
12.5°	730.2	727.8	728.0	726.5	734.9	721.7	721.2	719.0	719.4
15°	717.3	720.3	720.4	713.5	724.5	708.4	708.1	708.0	704.0
17.5°	701.9	706.1	709.7	700.9	708.3	694.9	694.6	691.0	686.2
20°	693.7	694.7	699.9	691.8	696.8	685.8	685.5	676.3	676.3
22.5°	682.3	682.5	688.4	679.5	684.5	673.5	674.1	663.2	664.0
25°	664.0	663.0	666.1	660.0	664.0	654.0	654.8	643.5	644.6
27.5°	641.5	642.7	647.4	638.1	644.1	631.9	632.3	622.0	620.6
30°	625.1	627.1	634.3	624.2	630.2	617.2	615.9	605.5	602.5
32.5°	607.9	609.9	617.1	609.4	614.6	602.4	599.5	587.5	585.3
35°	581.0	583.0	590.2	586.2	588.2	576.2	572.8	560.5	557.5
37.5°	553.8	555.8	561.8	558.9	560.7	548.1	543.3	532.4	530.2
40°	534.9	536.9	542.1	540.1	541.1	530.0	523.6	514.3	511.3
42.5°	516.9	518.1	522.4	518.8	521.4	511.2	504.0	494.6	490.0
45°	486.7	486.7	492.9	488.9	491.9	481.8	473.4	463.1	458.1
47.5°	455.6	453.8	460.9	459.5	460.9	450.1	441.7	430.9	427.3
50°	433.5	432.5	439.6	440.6	439.6	429.6	421.2	408.8	406.8
52.5°	409.7	411.1	416.7	417.7	417.5	407.5	398.2	386.7	384.7
55°	376.1	378.1	383.2	384.2	383.2	374.2	364.8	352.5	350.5
57.5°	340.6	345.4	349.8	350.9	351.5	341.9	330.2	320.8	316.6
60°	317.7	321.7	326.9	327.9	326.9	318.9	306.4	297.1	292.0
62.5°	294.7	297.1	302.3	304.9	302.3	294.3	281.8	273.4	271.6
65°	259.3	261.3	266.4	268.5	269.5	258.5	245.9	238.7	234.7
67.5°	220.9	223.3	226.3	229.2	230.4	218.7	208.4	200.7	196.3
70°	198.8	198.8	200.8	202.9	204.9	194.9	185.5	176.2	174.2
72.5°	175.0	175.0	177.9	179.1	179.5	170.3	161.7	153.3	152.9
75°	139.4	139.4	141.4	142.4	140.4	134.4	127.1	119.9	118.9
77.5°	106.0	105.4	107.2	108.0	107.0	100.2	93.0	88.1	86.7
80°	83.0	84.0	85.1	85.0	84.0	78.0	71.7	67.6	64.6
82.5°	61.7	62.7	64.6	64.5	61.9	58.3	52.9	47.9	47.3
85°	32.8	32.8	35.9	34.8	31.8	29.8	26.6	22.5	22.5
87.5°	8.2	9.0	10.7	13.0	9.0	9.8	5.7	3.3	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)