

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: P522569

Luminaire Tested: **SQW-F-0U-050D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522569  
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 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

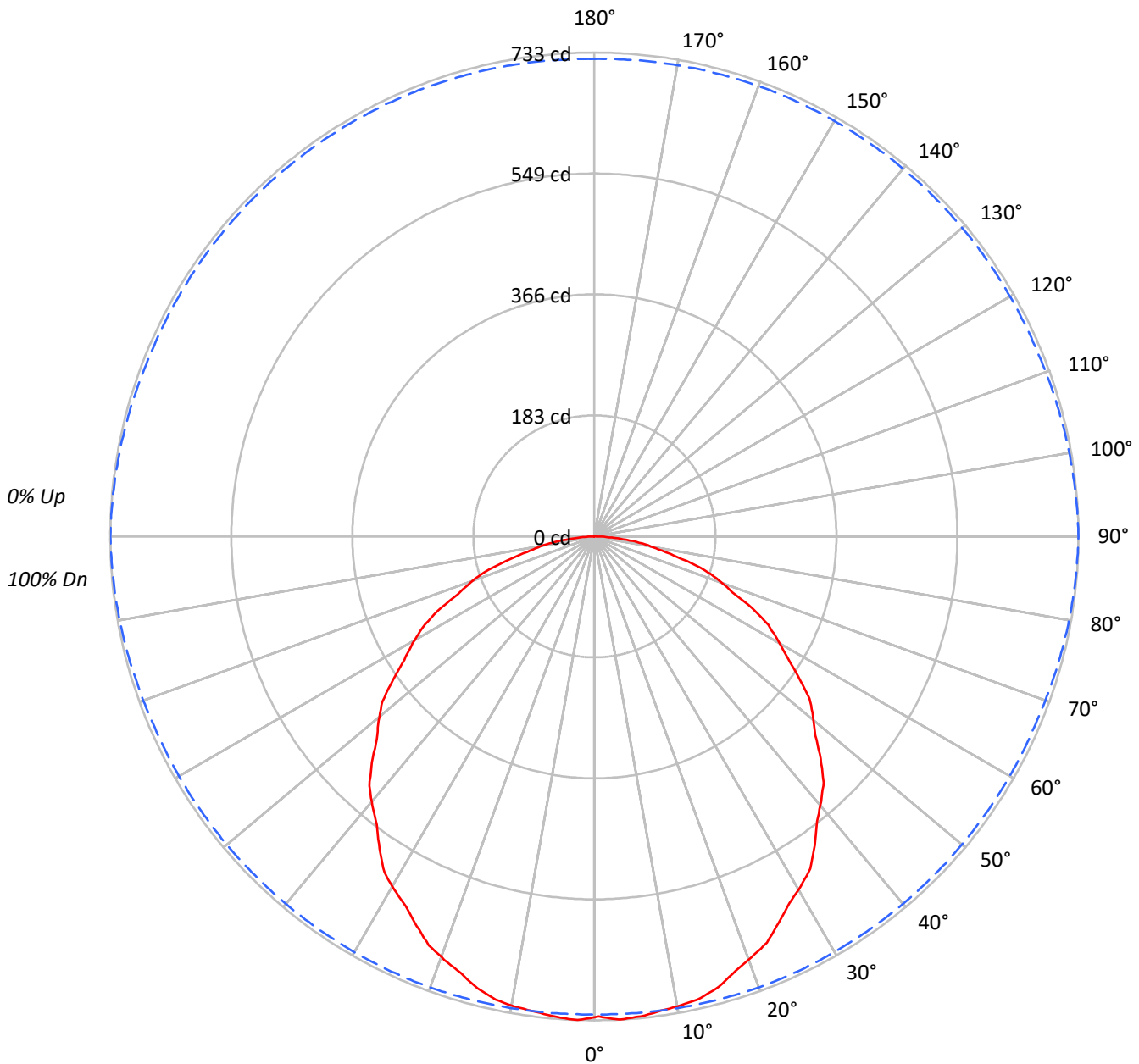
Lumens per Lamp: N/A  
Luminaire Lumens: 2023.7 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (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				
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84				
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59				
4	83	71	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50				
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43				
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38				
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34				
8	61	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30				
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24				

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

	0°	90°	180°
0°	11738	11738	11738
5°	11783	11831	11702
10°	11788	11837	11640
15°	11701	11818	11483
20°	11632	11684	11340
25°	11544	11544	11206
30°	11373	11466	10962
35°	11176	11314	10722
40°	11002	11129	10517
45°	10846	10960	10207
50°	10625	10776	9972
55°	10331	10528	9627
60°	10010	10301	9203
65°	9666	10048	8749
70°	9158	9441	8025
75°	8484	8546	7236
80°	7531	7624	5858
85°	5928	5743	4076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.8	3.4
10°-20°	196.5	9.7
20°-30°	295.6	14.6
30°-40°	352.8	17.4
40°-50°	362.2	17.9
50°-60°	325.6	16.1
60°-70°	246.8	12.2
70°-80°	139.2	6.9
80°-90°	36.1	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°	560.9	27.7
0°-40°	913.7	45.2
0°-60°	1601.5	79.1
0°-90°	2023.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2023.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	727	727	727	727	727	
5°	727	726	730	725	722	69
15°	700	703	707	691	687	197
25°	648	650	648	639	629	298
35°	567	576	574	559	544	355
45°	475	481	480	462	447	366
55°	367	374	374	356	342	328
65°	253	260	263	240	229	249
75°	136	138	137	124	116	144
85°	32	35	31	26	22	38
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°	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0
2.5°	723.8	726.9	726.2	725.6	732.6	726.3	727.0	726.1	723.0
5°	727.0	725.0	726.0	725.1	730.0	724.1	725.0	722.0	722.0
7.5°	723.8	720.7	721.6	720.9	725.2	718.6	717.4	713.7	717.2
10°	719.0	715.1	716.0	716.1	722.0	712.2	711.0	708.0	710.0
12.5°	712.6	710.3	710.4	709.0	717.2	704.3	703.8	701.6	702.0
15°	700.0	702.9	703.0	696.2	707.0	691.4	691.0	690.9	687.0
17.5°	685.0	689.1	692.6	684.0	691.2	678.1	677.8	674.3	669.6
20°	677.0	678.0	683.0	675.1	680.0	669.2	669.0	660.0	660.0
22.5°	665.8	666.0	671.8	663.1	668.0	657.2	657.8	647.2	648.0
25°	648.0	647.0	650.0	644.1	648.0	638.2	639.0	628.0	629.0
27.5°	626.0	627.2	631.8	622.7	628.6	616.7	617.0	607.0	605.6
30°	610.0	612.0	619.0	609.1	615.0	602.3	601.0	590.9	588.0
32.5°	593.2	595.2	602.2	594.7	599.8	587.9	585.0	573.4	571.2
35°	567.0	569.0	576.0	572.0	574.0	562.3	559.0	546.9	544.0
37.5°	540.4	542.4	548.2	545.4	547.2	534.9	530.2	519.6	517.4
40°	522.0	524.0	529.0	527.0	528.0	517.2	511.0	501.9	499.0
42.5°	504.4	505.6	509.8	506.3	508.8	498.8	491.8	482.7	478.2
45°	475.0	475.0	481.0	477.1	480.0	470.2	462.0	451.9	447.0
47.5°	444.6	442.8	449.8	448.4	449.8	439.2	431.0	420.5	417.0
50°	423.0	422.0	429.0	430.0	429.0	419.2	411.0	399.0	397.0
52.5°	399.8	401.2	406.6	407.6	407.4	397.6	388.6	377.4	375.4
55°	367.0	369.0	374.0	375.0	374.0	365.2	356.0	344.0	342.0
57.5°	332.4	337.1	341.4	342.4	343.0	333.6	322.2	313.1	309.0
60°	310.0	313.9	319.0	320.0	319.0	311.2	299.0	289.9	285.0
62.5°	287.6	289.9	295.0	297.5	295.0	287.2	275.0	266.8	265.0
65°	253.0	255.0	260.0	262.0	263.0	252.2	240.0	232.9	229.0
67.5°	215.6	217.9	220.8	223.6	224.8	213.5	203.4	195.9	191.6
70°	194.0	194.0	196.0	198.0	200.0	190.2	181.0	172.0	170.0
72.5°	170.8	170.8	173.6	174.8	175.2	166.2	157.8	149.6	149.2
75°	136.0	136.0	138.0	139.0	137.0	131.1	124.0	117.0	116.0
77.5°	103.4	102.8	104.6	105.4	104.4	97.8	90.8	86.0	84.6
80°	81.0	82.0	83.0	83.0	82.0	76.1	70.0	65.9	63.0
82.5°	60.2	61.2	63.0	62.9	60.4	56.9	51.6	46.8	46.2
85°	32.0	32.0	35.0	33.9	31.0	29.0	26.0	22.0	22.0
87.5°	8.0	8.8	10.4	12.7	8.8	9.6	5.6	3.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)