

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: P511811

Luminaire Tested: **SQW-F-0U-025D-840-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511811  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-0U-025D-840-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

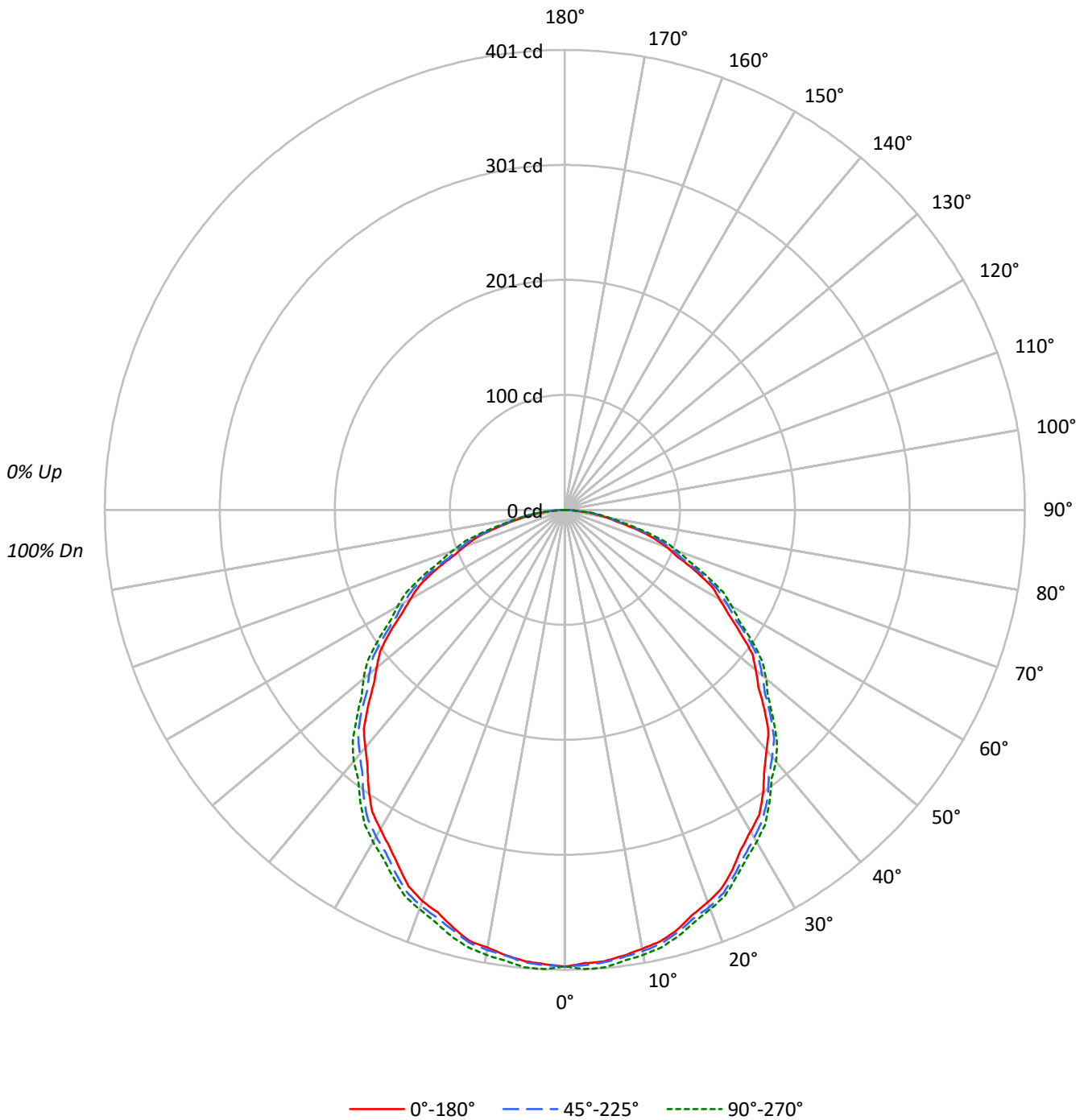
Lumens per Lamp: N/A  
Luminaire Lumens: 1078.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Direct

Input Watts (W): 9  
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	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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	90°	180°
0°	12859	12859	12859
5°	12804	12976	12804
10°	12742	12919	12709
15°	12670	12851	12600
20°	12512	12732	12478
25°	12328	12595	12214
30°	12070	12465	11992
35°	11878	12256	11751
40°	11533	12073	11398
45°	11234	11718	11088
50°	10912	11499	10751
55°	10489	11209	10489
60°	10043	10863	10043
65°	9521	10415	9521
70°	8847	9847	8743
75°	7711	8896	7835
80°	6341	7327	6527
85°	3557	5113	4335



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.6	3.5
10°-20°	107.1	9.9
20°-30°	160.5	14.9
30°-40°	190.5	17.7
40°-50°	193.5	18.0
50°-60°	172.5	16.0
60°-70°	128.7	11.9
70°-80°	70.8	6.6
80°-90°	16.8	1.6
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°	305.2	28.3
0°-40°	495.7	46.0
0°-60°	861.7	79.9
0°-90°	1078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	398	398	398	398	398	
5°	395	396	400	396	395	37
15°	379	381	384	379	377	107
25°	346	350	354	349	343	159
35°	301	308	311	306	298	188
45°	246	253	257	251	243	190
55°	186	195	199	193	186	167
65°	125	130	136	130	125	123
75°	62	66	71	66	63	66
85°	10	13	14	14	12	14
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°	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2
2.5°	395.7	397.3	397.4	397.4	400.8	397.4	397.4	397.3	396.5
5°	395.0	395.0	396.1	396.2	400.3	396.2	396.1	395.0	395.0
7.5°	392.0	392.2	393.3	393.2	396.5	392.1	392.2	392.0	391.8
10°	388.6	389.7	390.8	389.8	394.0	388.7	389.7	388.6	387.6
12.5°	385.2	386.3	387.4	386.4	390.5	386.2	386.3	385.2	385.0
15°	379.0	380.1	381.2	380.2	384.4	379.2	379.0	378.0	376.9
17.5°	370.1	372.0	373.5	372.5	376.5	371.5	372.4	369.9	368.2
20°	364.1	365.2	368.4	367.4	370.5	366.4	367.3	363.1	363.1
22.5°	357.3	358.4	361.6	360.6	364.6	359.6	360.5	356.2	355.4
25°	346.0	347.1	350.3	349.3	353.5	348.3	349.2	343.9	342.8
27.5°	333.1	334.3	339.4	338.5	342.8	336.6	337.5	332.2	330.9
30°	323.7	325.8	330.1	329.1	334.3	328.1	329.0	323.6	321.6
32.5°	315.2	317.2	320.7	321.4	325.0	319.5	319.6	314.3	312.2
35°	301.3	303.4	307.7	307.8	310.9	305.7	305.6	300.2	298.1
37.5°	285.6	287.4	292.2	293.5	295.8	291.0	289.8	284.5	282.4
40°	273.6	274.7	281.1	283.3	286.4	279.1	277.9	272.5	270.4
42.5°	262.6	264.4	270.0	271.3	273.6	268.8	266.8	261.5	259.4
45°	246.0	248.0	253.4	255.6	256.6	252.4	251.3	245.9	242.8
47.5°	229.1	231.2	236.6	239.0	240.0	236.9	233.6	229.1	225.9
50°	217.2	219.3	224.7	227.9	228.9	225.8	222.5	217.1	214.0
52.5°	206.1	207.4	212.7	216.8	217.0	214.7	210.6	205.2	202.9
55°	186.3	189.5	194.8	199.1	199.1	197.0	192.7	187.4	186.3
57.5°	169.1	170.3	175.7	179.9	180.2	178.9	174.6	169.3	168.2
60°	155.5	157.5	162.9	167.2	168.2	166.1	161.8	156.5	155.5
62.5°	144.4	144.8	150.1	154.4	155.5	153.4	149.1	144.5	142.7
65°	124.6	125.6	129.9	135.2	136.3	134.2	129.9	125.6	124.6
67.5°	105.6	106.7	110.7	115.9	117.1	115.0	109.7	106.5	105.4
70°	93.7	94.7	98.0	102.3	104.3	102.3	96.9	93.7	92.6
72.5°	80.9	82.0	85.2	89.5	90.7	88.6	84.1	81.7	80.7
75°	61.8	63.8	66.0	70.3	71.3	70.3	66.0	63.9	62.8
77.5°	45.1	46.2	48.3	51.3	52.2	51.3	49.4	46.2	46.2
80°	34.1	35.1	37.3	39.4	39.4	39.4	38.3	35.1	35.1
82.5°	23.9	24.9	26.2	29.2	28.3	29.2	28.1	25.7	24.9
85°	9.6	10.6	12.8	14.9	13.8	14.9	13.8	11.7	11.7
87.5°	0.9	1.7	1.7	4.3	4.3	5.1	3.4	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)