

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: P511810

Luminaire Tested: **SQW-F-0U-025D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511810  
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-835-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

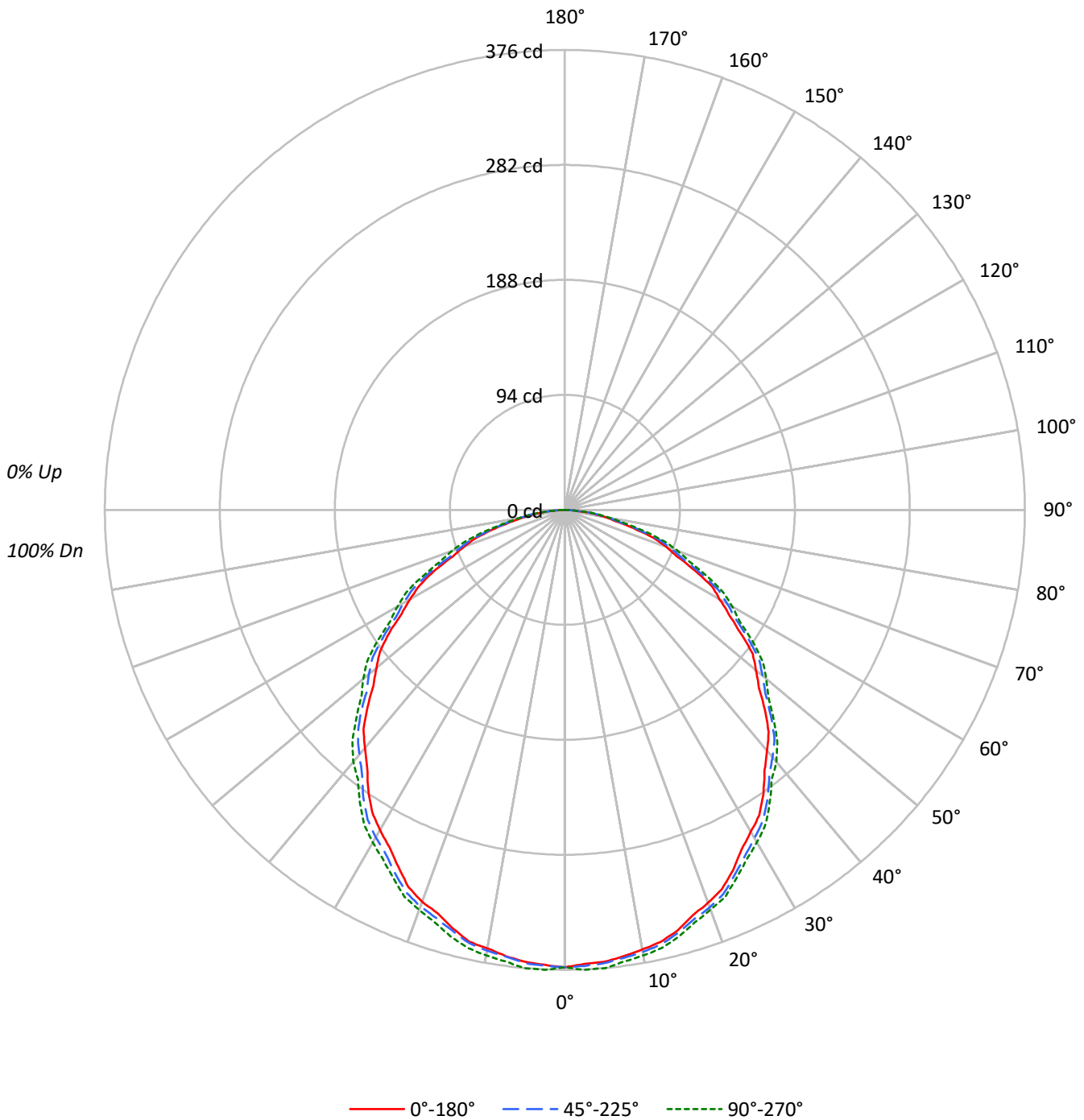
Lumens per Lamp: N/A  
Luminaire Lumens: 1012.5 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Direct

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°	12077	12077	12077
5°	12026	12188	12026
10°	11968	12132	11936
15°	11901	12069	11835
20°	11753	11959	11718
25°	11580	11829	11473
30°	11335	11708	11261
35°	11156	11511	11038
40°	10834	11339	10707
45°	10549	11006	10412
50°	10248	10801	10098
55°	9852	10528	9852
60°	9429	10204	9429
65°	8940	9780	8940
70°	8309	9253	8214
75°	7236	8359	7361
80°	5951	6881	6137
85°	3335	4817	4076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.3	3.5
10°-20°	100.6	9.9
20°-30°	150.7	14.9
30°-40°	178.9	17.7
40°-50°	181.8	18.0
50°-60°	162.0	16.0
60°-70°	120.9	11.9
70°-80°	66.5	6.6
80°-90°	15.7	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°	286.7	28.3
0°-40°	465.6	46.0
0°-60°	809.3	79.9
0°-90°	1012.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1012.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	374	374	374	374	374	
5°	371	372	376	372	371	35
15°	356	358	361	356	354	100
25°	325	329	332	328	322	149
35°	283	289	292	287	280	176
45°	231	238	241	236	228	178
55°	175	183	187	181	175	157
65°	117	122	128	122	117	116
75°	58	62	67	62	59	62
85°	9	12	13	13	11	13
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°	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
2.5°	371.6	373.2	373.2	373.3	376.4	373.3	373.2	373.2	372.4
5°	371.0	371.0	372.0	372.1	376.0	372.1	372.0	371.0	371.0
7.5°	368.2	368.4	369.4	369.3	372.4	368.3	368.4	368.2	368.0
10°	365.0	366.0	367.0	366.1	370.0	365.1	366.0	365.0	364.0
12.5°	361.8	362.8	363.8	362.9	366.8	362.7	362.8	361.8	361.6
15°	356.0	357.0	358.0	357.1	361.0	356.1	356.0	355.0	354.0
17.5°	347.6	349.4	350.8	349.9	353.6	348.9	349.8	347.4	345.8
20°	342.0	343.0	346.0	345.1	348.0	344.1	345.0	341.0	341.0
22.5°	335.6	336.6	339.6	338.7	342.4	337.7	338.6	334.6	333.8
25°	325.0	326.0	329.0	328.1	332.0	327.1	328.0	323.0	322.0
27.5°	312.8	314.0	318.8	317.9	322.0	316.1	317.0	312.0	310.8
30°	304.0	306.0	310.0	309.1	314.0	308.1	309.0	304.0	302.0
32.5°	296.0	298.0	301.2	301.9	305.2	300.1	300.2	295.2	293.2
35°	283.0	285.0	289.0	289.1	292.0	287.1	287.0	282.0	280.0
37.5°	268.2	270.0	274.4	275.6	277.8	273.3	272.2	267.2	265.2
40°	257.0	258.0	264.0	266.1	269.0	262.2	261.0	256.0	254.0
42.5°	246.6	248.4	253.6	254.8	257.0	252.5	250.6	245.6	243.6
45°	231.0	233.0	238.0	240.0	241.0	237.1	236.0	230.9	228.0
47.5°	215.2	217.2	222.2	224.4	225.4	222.5	219.4	215.1	212.2
50°	204.0	206.0	211.0	214.0	215.0	212.1	209.0	203.9	201.0
52.5°	193.6	194.8	199.8	203.6	203.8	201.6	197.8	192.8	190.6
55°	175.0	177.9	183.0	187.0	187.0	185.0	181.0	176.0	175.0
57.5°	158.8	160.0	165.0	169.0	169.2	168.0	164.0	159.0	158.0
60°	146.0	148.0	153.0	157.0	158.0	156.0	152.0	147.0	146.0
62.5°	135.6	136.0	141.0	145.0	146.0	144.0	140.0	135.8	134.0
65°	117.0	118.0	122.0	127.0	128.0	126.0	122.0	118.0	117.0
67.5°	99.2	100.2	104.0	108.8	110.0	108.0	103.0	100.0	99.0
70°	88.0	89.0	92.0	96.0	98.0	96.0	91.0	88.0	87.0
72.5°	76.0	77.0	80.0	84.0	85.2	83.2	79.0	76.8	75.8
75°	58.0	60.0	62.0	66.0	67.0	66.0	62.0	60.0	59.0
77.5°	42.4	43.4	45.4	48.2	49.0	48.2	46.4	43.4	43.4
80°	32.0	33.0	35.0	37.0	37.0	37.0	36.0	33.0	33.0
82.5°	22.4	23.4	24.6	27.4	26.6	27.4	26.4	24.2	23.4
85°	9.0	10.0	12.0	14.0	13.0	14.0	13.0	11.0	11.0
87.5°	0.8	1.6	1.6	4.0	4.0	4.8	3.2	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)