

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: P522564

Luminaire Tested: **SQW-F-0U-025D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522564  
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-025D-93050-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

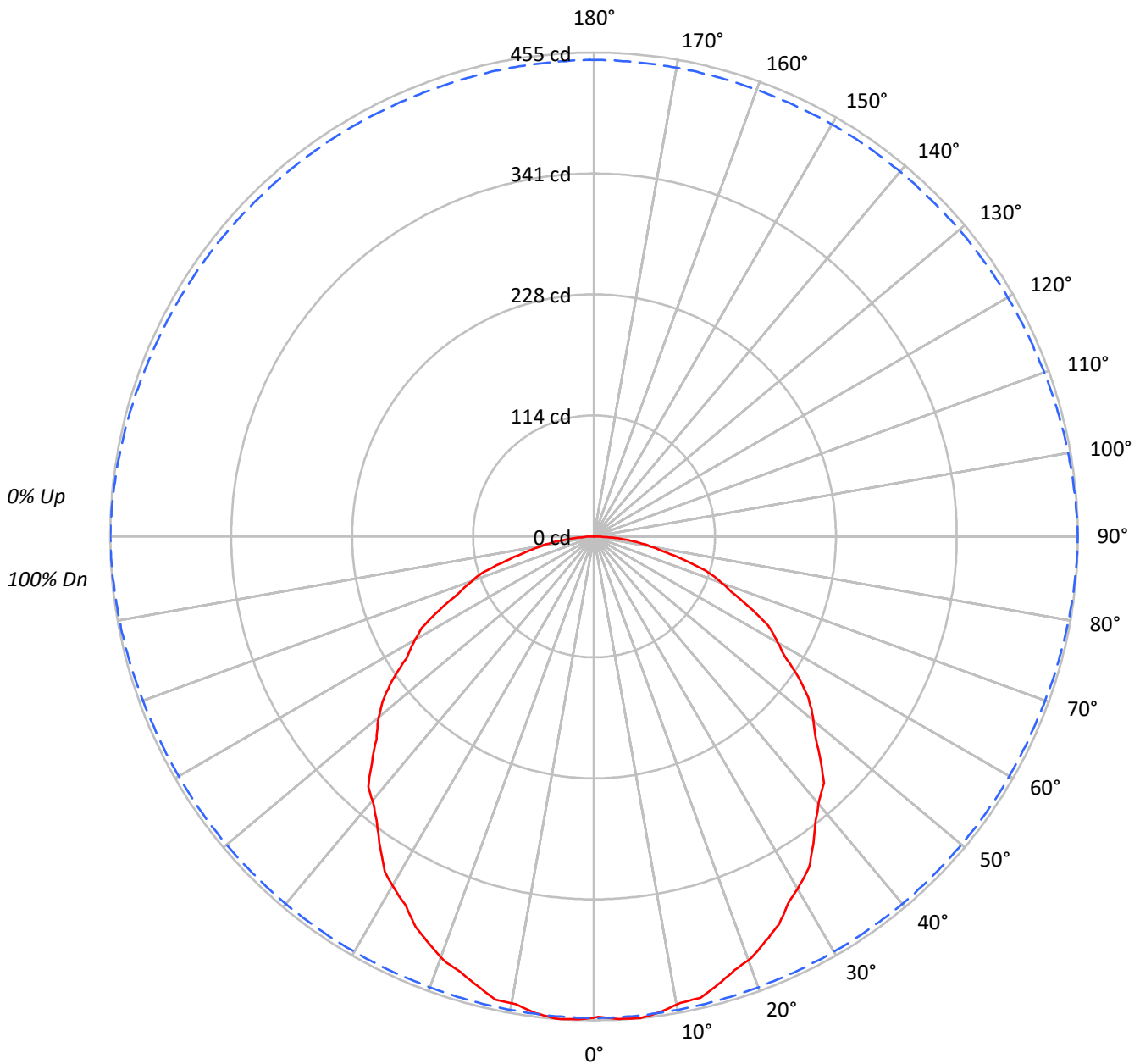
Lumens per Lamp: N/A  
Luminaire Lumens: 1256.8 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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 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	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	88		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	68	63		72	67	62		70	65	61	59
4	83	70	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	60	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°	7298	7298	7298
5°	7342	7374	7261
10°	7296	7312	7181
15°	7254	7305	7137
20°	7251	7268	7062
25°	7108	7197	6983
30°	7029	7103	6842
35°	6958	6997	6682
40°	6871	6871	6555
45°	6667	6804	6393
50°	6581	6707	6229
55°	6390	6559	5968
60°	6168	6361	5748
65°	5960	6151	5463
70°	5618	5901	5146
75°	5178	5365	4616
80°	4556	4742	3905
85°	3335	3705	2594



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	3.4
10°-20°	122.1	9.7
20°-30°	183.4	14.6
30°-40°	218.9	17.4
40°-50°	224.9	17.9
50°-60°	201.8	16.1
60°-70°	152.8	12.2
70°-80°	87.3	6.9
80°-90°	22.9	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°	348.2	27.7
0°-40°	567.2	45.1
0°-60°	993.9	79.1
0°-90°	1256.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1256.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	452	452	452	452	452	
5°	453	451	455	448	448	43
15°	434	437	437	433	427	123
25°	399	403	404	399	392	184
35°	353	355	355	347	339	221
45°	292	298	298	287	280	226
55°	227	232	233	221	212	203
65°	156	159	161	150	143	153
75°	83	86	86	79	74	88
85°	18	21	20	17	14	22
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°	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0
2.5°	451.2	452.0	453.6	451.3	454.4	451.3	452.0	450.3	448.0
5°	453.0	451.0	451.0	451.1	455.0	450.1	448.0	447.0	448.0
7.5°	447.4	447.8	447.6	447.3	451.6	444.0	447.0	444.0	444.4
10°	445.0	443.0	446.0	444.0	446.0	443.1	443.0	440.0	438.0
12.5°	442.6	441.4	442.8	439.3	445.2	437.6	436.6	436.0	436.4
15°	434.0	436.9	437.0	434.1	437.0	430.2	433.0	429.0	427.0
17.5°	429.2	426.3	427.6	425.3	428.6	422.9	422.6	418.4	419.0
20°	422.0	419.1	422.0	418.1	423.0	414.2	417.0	412.0	411.0
22.5°	412.4	411.8	415.6	412.4	413.4	408.5	408.2	402.4	401.4
25°	399.0	400.0	403.0	398.1	404.0	396.2	399.0	390.0	392.0
27.5°	387.4	387.6	391.0	388.6	389.8	383.7	384.0	376.4	375.0
30°	377.0	378.0	383.0	379.0	381.0	374.2	376.0	366.0	367.0
32.5°	369.8	367.6	371.8	367.9	371.4	364.6	364.8	357.2	355.8
35°	353.0	353.0	355.0	355.0	355.0	348.2	347.0	340.0	339.0
37.5°	335.6	334.8	341.6	336.5	338.8	333.1	331.0	324.2	323.0
40°	326.0	322.1	328.0	326.0	326.0	321.1	319.0	313.0	311.0
42.5°	312.4	311.6	316.0	314.9	317.2	309.2	307.0	300.2	299.0
45°	292.0	293.0	298.0	296.0	298.0	293.1	287.0	282.0	280.0
47.5°	274.8	273.2	278.0	277.8	279.8	272.4	269.6	262.0	261.6
50°	262.0	262.0	266.0	265.0	267.0	261.1	256.0	250.0	248.0
52.5°	249.2	247.6	252.4	252.2	252.6	247.5	242.4	237.2	236.0
55°	227.0	228.0	232.0	232.0	233.0	228.1	221.0	214.9	212.0
57.5°	206.2	205.6	209.4	210.6	210.6	205.7	199.4	194.4	193.2
60°	191.0	192.0	195.0	197.0	197.0	192.1	185.0	180.0	178.0
62.5°	176.6	176.8	180.6	181.8	183.4	177.7	171.4	166.4	164.4
65°	156.0	155.0	159.0	161.0	161.0	156.1	150.0	145.0	143.0
67.5°	132.6	134.0	137.2	138.4	139.4	133.5	127.6	124.4	123.4
70°	119.0	118.0	122.0	124.0	125.0	119.1	114.0	110.0	109.0
72.5°	104.6	104.4	107.6	109.6	109.8	103.9	99.6	96.3	93.8
75°	83.0	84.0	86.0	86.0	86.0	82.1	79.0	76.0	74.0
77.5°	61.8	62.8	64.6	66.4	65.4	61.9	58.8	55.8	54.0
80°	49.0	50.0	51.0	52.0	51.0	49.0	46.0	43.0	42.0
82.5°	36.2	36.4	39.0	39.2	38.2	36.2	34.0	31.0	30.8
85°	18.0	19.0	21.0	21.0	20.0	19.0	17.0	15.0	14.0
87.5°	4.0	4.8	6.4	8.0	6.4	6.4	4.8	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)