

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: P522573

Luminaire Tested: **SQW-F-0U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522573  
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-075D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

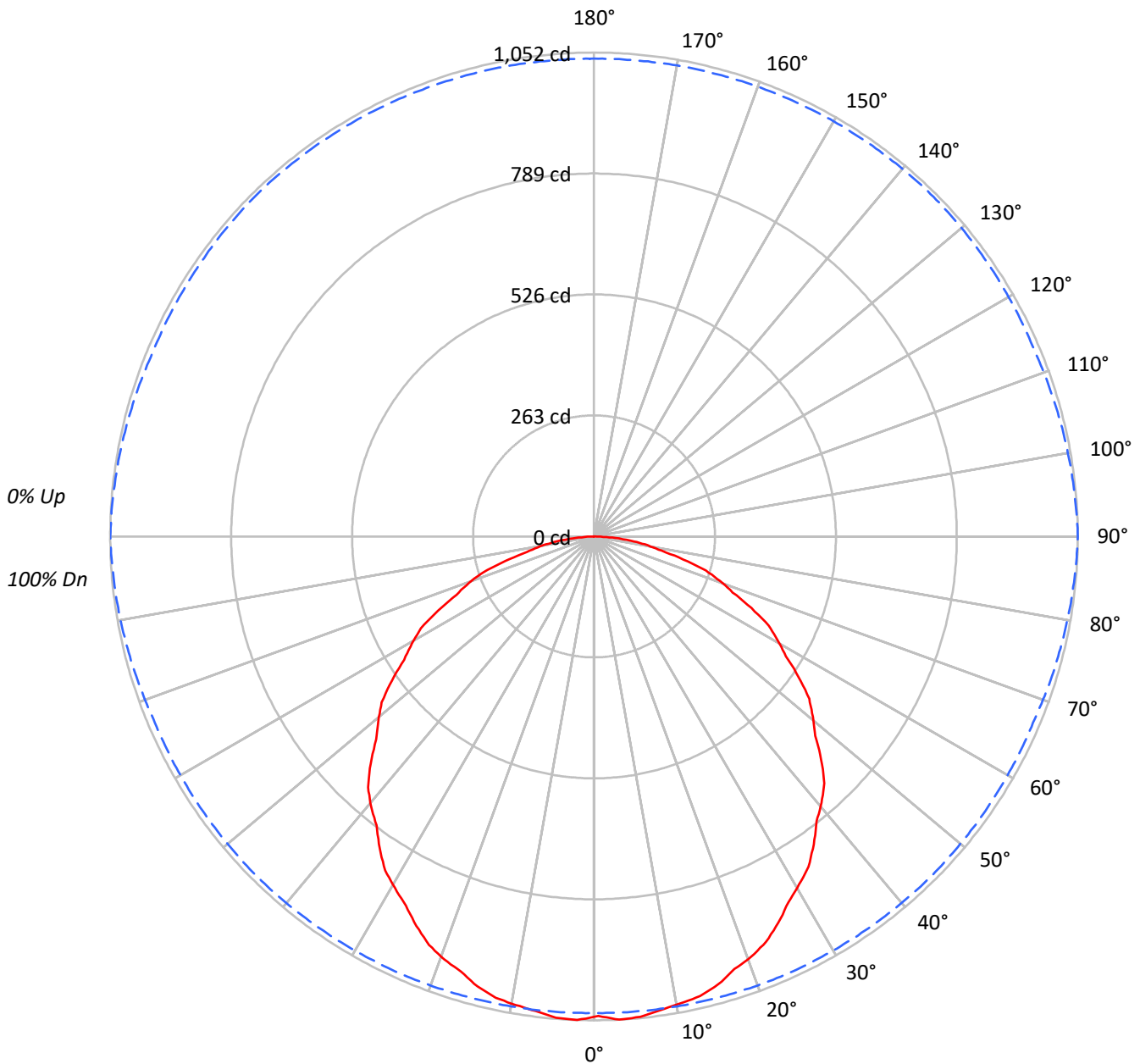
Lumens per Lamp: N/A  
Luminaire Lumens: 2908.2 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.3  
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	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	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	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	26	38	31	26	37	31	26	36	30	26	24

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

	0°	90°	180°
0°	16824	16824	16824
5°	16762	17000	16857
10°	16585	16923	16875
15°	16500	16893	16762
20°	16252	16758	16673
25°	15959	16571	16536
30°	15659	16373	16281
35°	15376	16208	16032
40°	15055	16048	15841
45°	14721	15817	15593
50°	14345	15478	15282
55°	13892	15192	14860
60°	13340	14828	14447
65°	12596	14357	13868
70°	11764	13709	13199
75°	10405	12489	11996
80°	8666	10944	10581
85°	5632	8540	8188



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	3.4
10°-20°	281.3	9.7
20°-30°	423.3	14.6
30°-40°	505.6	17.4
40°-50°	520.3	17.9
50°-60°	467.7	16.1
60°-70°	356.3	12.3
70°-80°	202.2	7.0
80°-90°	53.0	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°	803.1	27.6
0°-40°	1308.7	45.0
0°-60°	2296.7	79.0
0°-90°	2908.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2908.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1034	1035	1049	1042	1040	98
15°	987	992	1011	1006	1003	278
25°	896	916	930	936	928	413
35°	780	801	822	827	813	488
45°	645	663	693	690	683	497
55°	494	513	540	537	528	441
65°	330	350	376	373	363	327
75°	167	180	200	198	192	178
85°	30	39	46	49	44	40
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°	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0	1042.0
2.5°	1035.8	1038.8	1040.5	1036.9	1051.5	1039.2	1043.6	1040.4	1038.1
5°	1034.2	1033.2	1035.2	1031.6	1048.9	1035.5	1042.0	1037.2	1040.1
7.5°	1024.2	1022.3	1025.8	1026.3	1039.3	1029.5	1033.4	1032.1	1035.6
10°	1011.6	1013.5	1019.5	1020.7	1032.2	1021.7	1026.3	1027.4	1029.3
12.5°	1006.1	1002.7	1009.3	1012.9	1025.2	1012.3	1020.9	1020.3	1023.8
15°	987.1	986.1	992.0	995.3	1010.6	999.1	1005.7	1005.7	1002.8
17.5°	963.2	963.2	971.0	972.5	988.7	980.2	986.7	983.7	983.0
20°	945.9	945.9	957.7	956.1	975.3	967.6	973.4	966.6	970.4
22.5°	926.3	927.0	941.2	938.8	957.3	952.7	959.2	949.3	953.9
25°	895.8	898.7	915.5	913.9	930.2	925.4	936.1	924.4	928.2
27.5°	863.5	867.5	884.3	884.0	900.2	896.7	909.0	895.5	896.0
30°	839.9	844.7	861.5	862.8	878.2	872.4	887.0	874.2	873.3
32.5°	817.2	821.2	838.0	840.9	856.2	852.8	864.3	851.5	849.7
35°	780.1	784.9	800.7	805.9	822.3	817.5	827.2	815.3	813.4
37.5°	741.8	744.9	761.6	766.2	785.8	781.7	787.9	776.5	776.7
40°	714.3	718.2	734.9	740.3	761.4	756.6	760.4	750.6	751.6
42.5°	686.8	690.7	706.7	714.4	733.9	729.1	732.2	723.9	724.1
45°	644.7	647.5	663.3	673.5	692.7	687.9	689.8	682.0	682.9
47.5°	600.9	603.0	617.4	631.7	647.6	645.5	645.8	636.1	639.0
50°	571.1	573.9	586.8	601.8	616.2	617.2	615.2	605.5	608.4
52.5°	540.5	542.6	557.7	570.4	585.6	587.3	583.8	574.8	577.0
55°	493.5	495.5	513.2	526.2	539.7	540.6	536.7	529.8	527.9
57.5°	445.3	448.2	464.7	478.9	492.2	490.4	488.4	480.4	478.8
60°	413.1	416.0	431.7	446.7	459.2	458.2	456.3	447.4	447.4
62.5°	380.1	383.8	400.3	413.8	426.2	426.0	423.3	416.8	415.2
65°	329.7	333.5	350.3	362.4	375.8	375.8	372.9	365.0	363.0
67.5°	281.4	285.2	299.1	311.5	325.0	323.8	321.1	316.1	313.4
70°	249.2	253.1	263.0	277.0	290.4	288.5	286.5	281.6	279.6
72.5°	214.7	219.3	229.2	241.7	254.3	253.9	252.0	249.3	245.1
75°	166.8	169.7	180.5	191.5	200.2	201.1	198.2	197.1	192.3
77.5°	121.5	125.1	134.0	143.6	149.9	153.0	151.3	148.9	145.2
80°	93.2	96.1	105.0	112.9	117.7	121.6	120.7	116.7	113.8
82.5°	66.5	69.4	76.7	83.9	87.9	91.8	90.9	88.4	84.0
85°	30.4	32.3	39.2	44.2	46.1	50.9	49.1	47.0	44.2
87.5°	4.7	5.5	10.2	14.9	14.1	18.7	16.5	13.3	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)