

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: P511794

Luminaire Tested: **SQW-F-075U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511794  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-075U-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

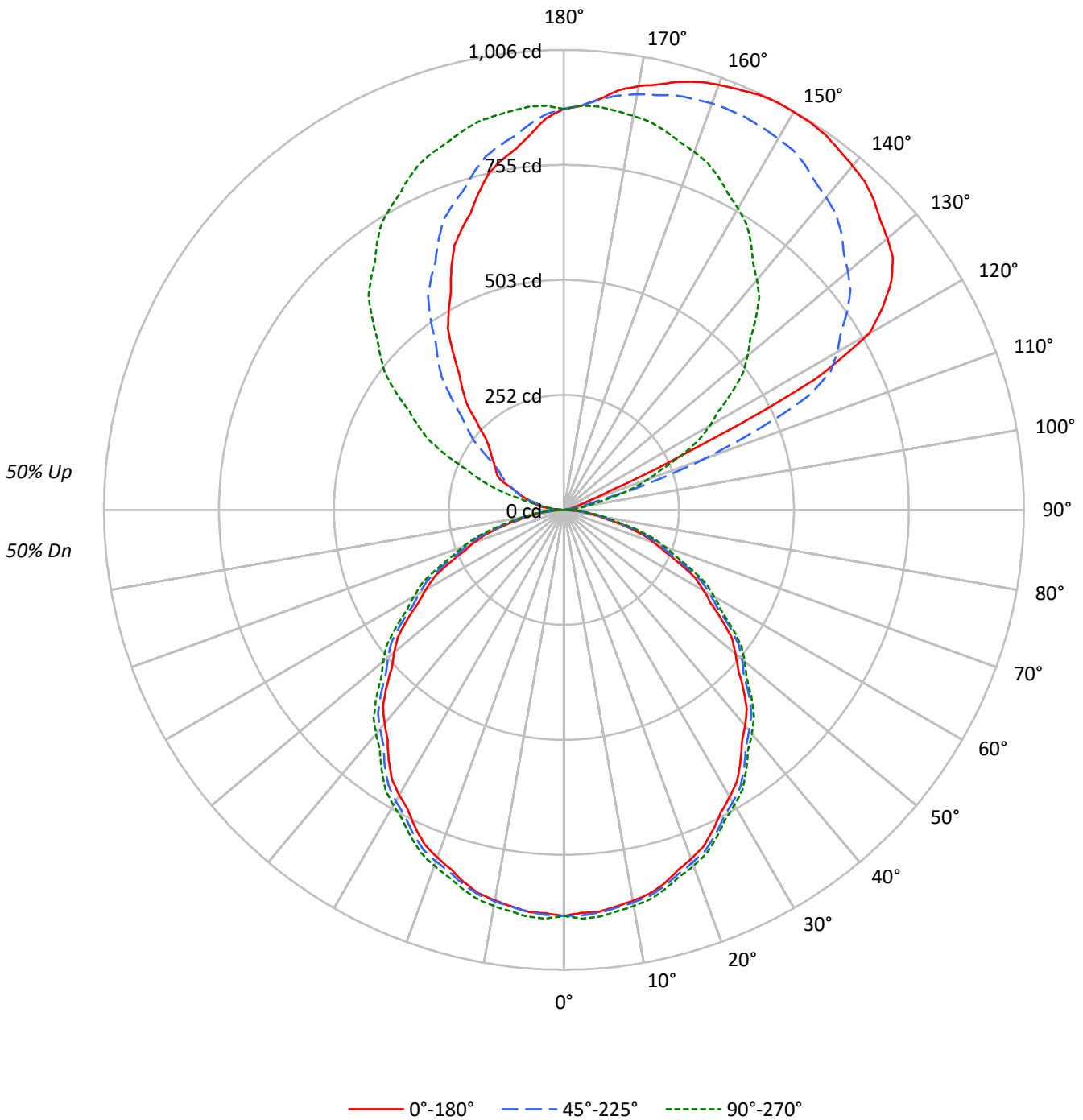
Lumens per Lamp: N/A  
Luminaire Lumens: 4876.9 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 47.8  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	71	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	90°	180°
0°	28678	28678	28678
5°	28610	28969	28610
10°	28468	28862	28442
15°	28309	28680	28202
20°	27924	28471	27814
25°	27506	28159	27368
30°	27037	27809	26862
35°	26546	27394	26329
40°	25975	26949	25706
45°	25346	26469	25053
50°	24606	25922	24325
55°	23815	25245	23499
60°	22798	24497	22540
65°	21448	23511	21265
70°	19818	22150	19667
75°	17255	19838	17255
80°	13891	16569	14338
85°	7966	11189	9411



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	1.7
10°-20°	239.2	4.9
20°-30°	358.5	7.4
30°-40°	426.3	8.7
40°-50°	436.3	8.9
50°-60°	389.1	8.0
60°-70°	290.7	6.0
70°-80°	158.5	3.2
80°-90°	37.8	0.8
90°-100°	22.1	0.5
100°-110°	102.5	2.1
110°-120°	298.9	6.1
120°-130°	434.3	8.9
130°-140°	464.7	9.5
140°-150°	444.6	9.1
150°-160°	366.6	7.5
160°-170°	239.8	4.9
170°-180°	83.1	1.7
0°-30°	681.7	14.0
0°-40°	1108.0	22.7
0°-60°	1933.4	39.6
0°-90°	2420.3	49.6
90°-120°	423.5	8.7
90°-150°	1767.2	36.2
90°-180°	2457.0	50.4
0°-180°	4876.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	888	888	888	888	888	
5°	883	885	894	883	883	84
15°	847	852	858	848	844	238
25°	772	784	790	781	768	355
35°	673	687	695	683	668	421
45°	555	572	580	565	549	428
55°	423	440	448	435	417	378
65°	281	295	308	293	278	278
75°	138	149	159	150	138	148
85°	22	28	30	31	25	31
90°	2	2	1	3	7	1
95°	7	8	16	27	25	7
105°	27	79	114	72	78	33
115°	301	592	284	136	150	353
125°	875	756	448	208	190	774
135°	958	858	593	349	268	740
145°	1000	920	713	508	424	626
155°	1003	946	802	649	583	463
165°	969	939	858	763	719	275
175°	902	901	885	847	826	87
180°	877	877	877	877	877	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1
2.5°	882.4	886.7	887.5	886.4	895.1	887.0	886.8	886.8	883.7
5°	882.6	882.6	884.9	883.6	893.7	883.6	883.4	881.8	882.6
7.5°	875.2	876.2	877.9	876.4	885.9	875.6	876.2	873.8	875.1
10°	868.2	869.8	872.2	870.1	880.2	869.3	869.8	867.4	867.4
12.5°	860.6	862.2	865.2	862.4	872.5	862.3	862.2	859.2	859.2
15°	846.8	848.3	851.5	848.6	857.9	847.0	848.4	844.4	843.6
17.5°	827.2	830.5	834.7	831.7	841.2	830.2	830.9	825.4	824.0
20°	812.6	816.5	821.3	818.4	828.5	816.8	818.2	810.2	809.4
22.5°	797.3	800.6	807.3	804.4	813.9	802.8	804.2	793.7	793.5
25°	772.0	775.1	784.0	781.8	790.3	779.4	780.8	768.8	768.1
27.5°	744.8	748.9	757.7	755.7	764.2	752.6	753.9	741.0	739.4
30°	725.1	729.8	738.6	737.2	745.8	734.1	735.5	721.9	720.4
32.5°	704.1	710.0	718.9	718.2	726.1	715.0	714.5	701.5	699.4
35°	673.4	678.1	687.0	687.9	694.9	684.8	683.0	670.2	667.9
37.5°	639.7	644.6	653.4	655.5	661.5	651.6	648.6	635.9	633.4
40°	616.2	621.6	630.5	633.8	639.3	629.9	625.7	612.9	609.8
42.5°	592.0	598.1	607.6	610.9	615.7	606.4	601.6	589.4	585.7
45°	555.0	561.2	571.7	575.7	579.6	571.1	565.3	552.5	548.6
47.5°	516.5	522.7	533.5	538.5	541.5	534.5	527.8	515.0	510.3
50°	489.8	496.0	508.1	513.7	516.0	509.0	501.7	488.9	484.2
52.5°	463.7	469.3	481.4	487.6	489.3	483.5	475.6	463.4	458.1
55°	423.0	428.4	439.7	446.9	448.4	443.8	434.9	422.1	417.4
57.5°	381.0	386.5	397.5	405.5	407.2	402.6	392.9	381.7	376.4
60°	353.0	358.5	368.9	376.9	379.3	374.6	364.9	353.7	349.0
62.5°	324.4	328.6	339.7	347.7	351.3	347.2	337.0	324.5	320.4
65°	280.7	285.3	295.0	304.6	307.7	304.6	293.4	282.2	278.3
67.5°	238.5	241.6	250.5	259.9	263.8	260.4	250.3	238.8	236.3
70°	209.9	213.0	221.8	230.7	234.6	229.9	221.0	211.4	208.3
72.5°	180.0	183.1	191.3	200.1	203.4	198.7	191.1	182.8	179.1
75°	138.3	141.5	148.7	155.9	159.0	155.9	149.5	142.2	138.3
77.5°	99.5	102.5	108.8	115.0	116.4	114.4	109.9	103.6	100.7
80°	74.7	77.1	82.7	88.3	89.1	88.3	85.1	79.5	77.1
82.5°	52.5	54.2	59.8	64.1	63.6	65.3	62.2	57.2	55.5
85°	21.5	23.0	27.8	32.5	30.2	34.1	31.0	27.8	25.4
87.5°	2.9	2.9	5.4	9.1	8.4	11.1	8.9	7.5	6.4
90°	1.6	1.6	1.6	0.8	0.8	1.6	3.3	5.8	6.6
92.5°	3.0	3.6	3.6	4.1	4.8	9.5	6.6	7.7	7.9
95°	6.6	6.6	8.2	19.7	16.5	24.5	27.2	25.5	24.7
97.5°	10.9	11.7	16.0	51.7	37.1	32.9	44.8	47.9	45.0
100°	14.8	15.6	23.9	81.8	53.6	42.3	49.4	58.5	60.2
102.5°	19.4	20.9	37.1	126.1	75.3	53.7	56.7	65.2	67.4
105°	27.2	31.2	79.1	208.8	113.7	71.0	72.5	75.1	78.3
107.5°	42.2	56.7	200.9	296.4	161.0	93.2	96.4	94.1	94.3
110°	59.3	89.9	328.8	346.8	195.3	110.7	109.6	107.9	105.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	107.5	188.4	458.0	391.4	231.6	129.6	120.1	127.6	122.6
115°	300.8	456.3	591.7	452.7	284.3	161.8	136.0	146.8	150.0
117.5°	620.3	690.8	658.2	507.2	334.7	199.5	151.1	158.8	164.2
120°	771.3	768.9	690.6	540.8	368.3	227.3	162.3	167.4	171.4
122.5°	826.7	803.6	717.6	571.1	400.7	257.1	177.5	174.6	179.3
125°	875.1	843.7	756.5	612.7	448.3	302.4	207.7	186.3	189.5
127.5°	906.6	872.1	789.8	650.7	494.4	350.5	247.5	204.8	200.9
130°	923.8	889.9	810.9	674.0	524.1	381.5	275.2	223.1	213.4
132.5°	938.3	906.4	830.6	696.5	553.1	413.1	304.9	246.1	231.9
135°	958.4	927.7	857.8	729.5	593.3	458.8	349.4	288.0	267.8
137.5°	973.7	945.8	879.3	759.0	632.4	503.8	396.0	334.3	313.6
140°	982.3	955.7	892.4	777.6	656.8	532.7	427.7	364.6	345.3
142.5°	990.2	964.2	903.6	794.3	679.8	560.3	460.0	395.6	376.3
145°	999.6	974.6	920.5	818.4	712.8	601.6	508.4	442.9	424.4
147.5°	1004.0	981.0	932.5	839.8	742.3	639.8	553.4	490.5	471.8
150°	1005.3	983.6	937.8	852.5	761.4	664.7	581.8	522.8	503.5
152.5°	1006.0	983.6	941.7	863.2	778.6	687.0	609.5	553.8	535.8
155°	1002.9	982.7	946.0	875.9	801.8	718.8	649.3	598.7	582.6
157.5°	995.6	980.8	946.7	886.7	821.2	748.6	687.3	640.9	625.8
160°	989.7	976.8	946.0	892.7	833.1	766.2	710.3	668.0	653.5
162.5°	981.8	968.9	942.7	895.5	843.7	782.6	732.1	691.8	679.8
165°	969.1	957.0	938.6	899.7	857.8	807.1	763.1	728.2	718.6
167.5°	952.9	945.4	929.5	901.4	869.2	828.1	791.4	763.0	754.8
170°	941.1	935.4	922.9	900.9	875.1	840.5	809.2	783.5	777.9
172.5°	925.9	922.8	914.4	898.4	879.8	851.6	825.0	802.7	797.0
175°	902.3	903.9	900.7	894.7	885.0	865.7	847.1	831.3	825.7
177.5°	884.7	884.7	885.4	886.0	884.7	876.3	866.9	857.7	858.3
180°	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8

(END OF REPORT)