

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: P511764

Luminaire Tested: **SQW-F-050U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511764  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-050U-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

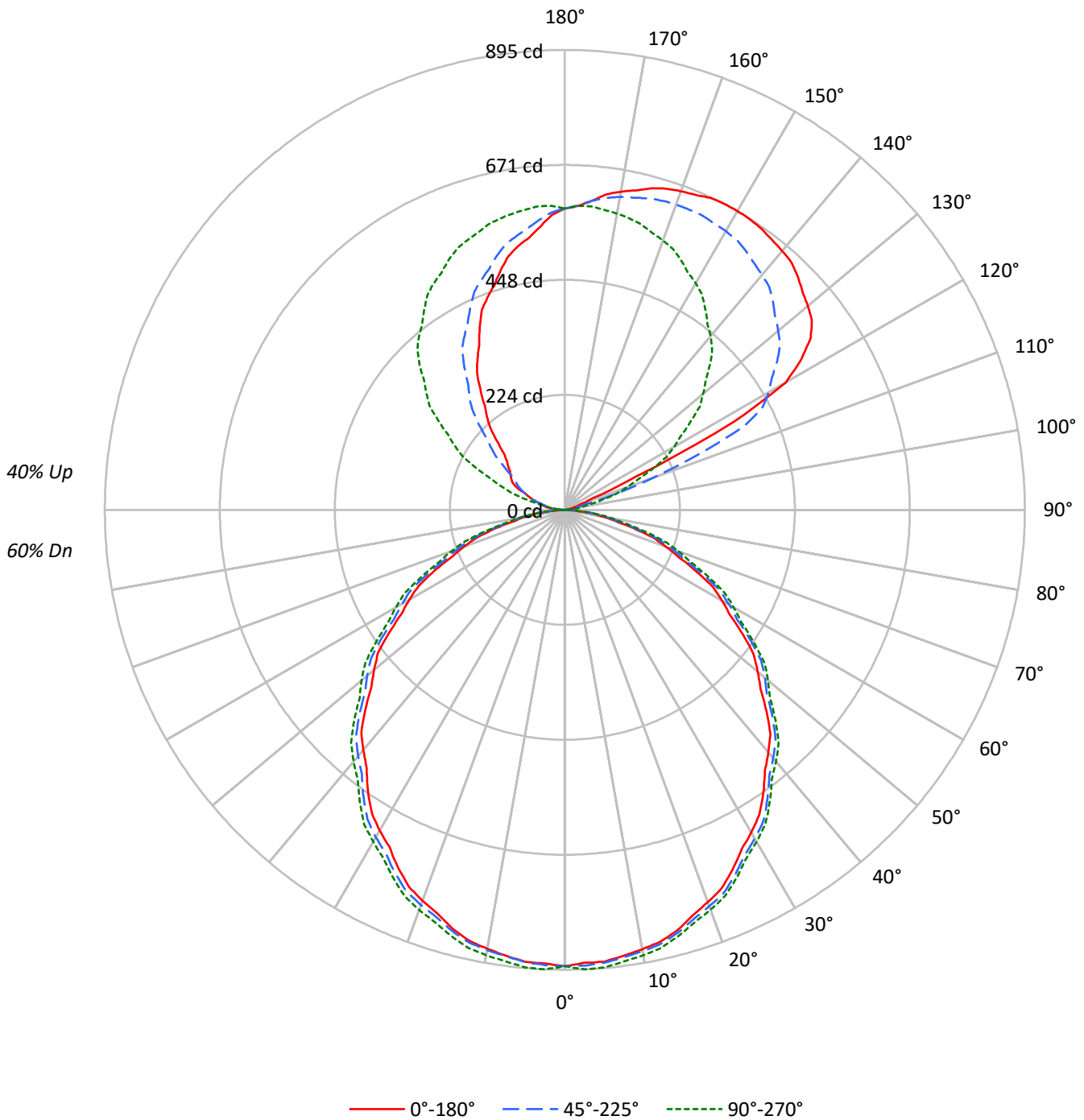
Lumens per Lamp: N/A  
Luminaire Lumens: 4054.7 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 41.6  
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	35
4	76	65	57	50	70	61	54	48	53	48	43	46	42	38	40	36	34	30
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	36	43	37	32	37	33	29	32	29	26	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	26	30	26	23	20
8	55	42	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	23	19	17	15

**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	2.1
10°-20°	239.2	5.9
20°-30°	358.5	8.8
30°-40°	426.3	10.5
40°-50°	436.3	10.8
50°-60°	389.1	9.6
60°-70°	290.7	7.2
70°-80°	158.5	3.9
80°-90°	37.5	0.9
90°-100°	14.4	0.4
100°-110°	65.8	1.6
110°-120°	193.0	4.8
120°-130°	290.6	7.2
130°-140°	312.0	7.7
140°-150°	297.8	7.3
150°-160°	245.0	6.0
160°-170°	160.4	4.0
170°-180°	55.6	1.4
0°-30°	681.7	16.8
0°-40°	1108.0	27.3
0°-60°	1933.4	47.7
0°-90°	2420.0	59.7
90°-120°	273.2	6.7
90°-150°	1173.6	28.9
90°-180°	1635.0	40.3
0°-180°	4054.7	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°	1	1	1	2	3	1
95°	4	5	11	18	17	5
105°	18	43	75	50	53	21
115°	155	384	188	94	104	207
125°	584	504	299	141	130	513
135°	641	573	400	238	183	495
145°	667	615	477	341	287	418
155°	670	632	536	435	391	309
165°	648	627	575	512	482	184
175°	604	604	593	567	553	59
180°	586	586	586	586	586	



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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°	2.7	2.7	5.3	9.1	8.4	10.9	8.6	6.8	5.7
90°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.5	3.3
92.5°	2.1	2.1	2.1	2.8	2.8	6.6	4.9	4.4	5.2
95°	4.1	4.1	4.9	12.2	10.6	16.3	18.0	17.2	17.2
97.5°	7.2	7.2	9.3	32.6	24.1	22.2	30.3	31.3	31.0
100°	9.8	9.8	13.9	52.0	35.2	28.8	33.6	38.5	40.1
102.5°	12.4	13.1	21.1	80.5	49.6	36.8	38.2	43.1	44.7
105°	18.0	19.6	42.6	135.4	75.3	48.9	50.0	50.8	53.2
107.5°	26.7	32.6	107.9	193.3	106.3	64.2	66.3	63.7	63.9
110°	35.2	48.8	182.6	230.3	128.6	74.9	76.2	72.9	73.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	57.5	96.7	277.6	259.6	152.2	87.6	83.4	86.6	84.8
115°	154.8	252.5	384.1	302.0	187.5	109.1	94.2	101.6	104.0
117.5°	369.8	435.8	434.2	337.9	222.7	135.0	104.2	111.1	115.1
120°	496.3	505.9	457.8	360.2	245.7	152.8	111.4	116.4	120.4
122.5°	545.4	533.9	477.4	380.5	267.3	171.8	121.2	120.3	125.0
125°	583.9	563.1	504.5	408.6	298.9	203.6	140.9	127.8	130.2
127.5°	605.7	582.6	527.7	434.9	331.0	235.4	166.9	140.2	138.7
130°	617.5	595.0	542.1	451.4	351.3	257.6	185.9	150.6	146.6
132.5°	627.3	606.8	555.2	467.2	371.0	279.2	206.2	166.2	159.0
135°	641.2	622.0	573.2	488.5	399.6	309.9	237.5	193.0	182.6
137.5°	653.0	633.5	588.5	508.8	424.4	340.0	267.9	225.7	213.6
140°	657.6	640.0	597.0	520.7	441.4	358.9	288.3	245.5	235.8
142.5°	662.2	645.2	604.8	532.5	455.8	377.2	309.2	266.4	256.2
145°	667.4	650.6	615.0	547.9	476.6	403.7	340.7	297.0	286.6
147.5°	670.2	655.1	622.5	560.8	496.9	428.2	371.6	327.7	318.2
150°	671.5	657.1	626.5	569.4	509.4	444.5	390.6	348.7	339.8
152.5°	671.5	656.5	628.4	576.1	519.8	459.5	409.0	369.0	360.8
155°	669.9	655.5	632.2	584.4	535.6	481.1	434.8	400.2	391.4
157.5°	663.3	654.7	632.2	592.1	549.2	501.3	460.1	429.3	421.4
160°	660.0	652.0	632.2	596.1	557.7	513.6	475.8	447.0	439.8
162.5°	655.5	647.5	630.9	598.8	564.9	524.7	490.9	462.7	457.4
165°	647.8	639.8	627.3	601.3	574.9	540.4	511.8	487.9	482.3
167.5°	636.8	632.3	622.2	602.1	580.9	554.5	529.5	510.4	505.9
170°	628.9	625.7	618.3	601.5	585.5	562.3	541.3	524.9	521.6
172.5°	619.1	617.2	612.4	601.0	588.8	570.1	552.4	536.7	534.1
175°	603.5	605.1	603.5	598.5	592.9	580.1	566.7	555.2	552.8
177.5°	591.6	591.6	592.9	592.9	592.2	585.8	579.8	573.3	574.5
180°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3

(END OF REPORT)