

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: P522301

Luminaire Tested: **SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522301  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

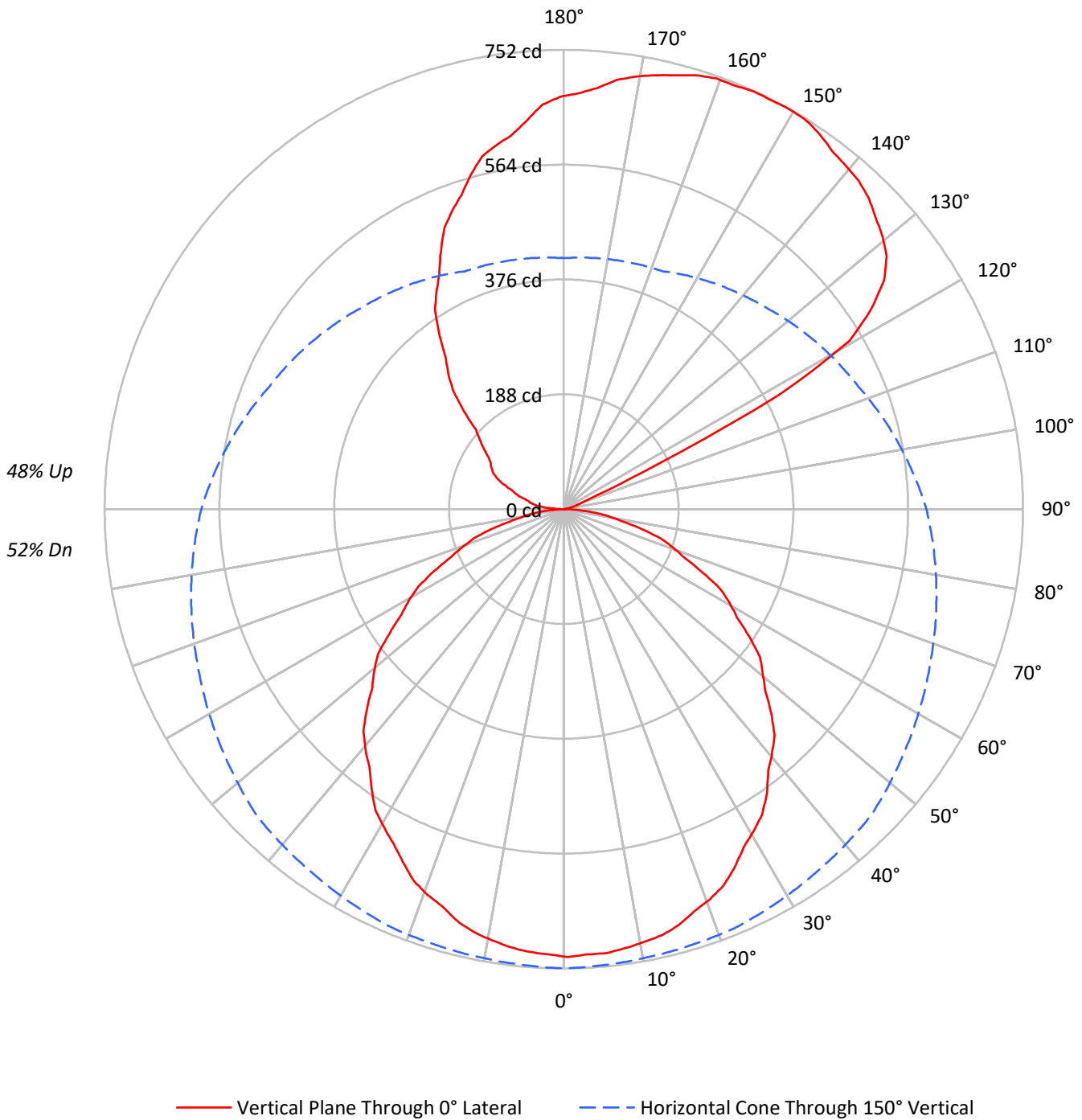
Lumens per Lamp: N/A  
Luminaire Lumens: 3930.0 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 35.4  
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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49	44
2	89	82	75	70	82	76	70	66	65	61	57	54	51	49	45	43	41	36
3	81	72	64	58	75	67	60	55	57	52	48	48	44	41	40	37	35	31
4	74	63	55	49	68	59	52	46	50	45	41	43	38	35	35	32	30	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	32	28	26	23
6	63	51	42	36	58	47	40	34	41	35	30	34	30	26	29	25	23	20
7	58	46	37	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	33	28	50	39	32	27	33	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	21	17	15	13

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

	0°	90°	180°
0°	11841	11841	11841
5°	11835	11953	11784
10°	11817	11937	11732
15°	11804	11873	11646
20°	11720	11809	11503
25°	11574	11685	11313
30°	11410	11566	11156
35°	11280	11424	10949
40°	11070	11268	10760
45°	10869	11109	10510
50°	10590	10906	10248
55°	10367	10660	9866
60°	10069	10440	9494
65°	9513	9990	8951
70°	8988	9531	8346
75°	8291	8746	7636
80°	7197	7680	6416
85°	5428	6002	4854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	1.8
10°-20°	198.3	5.0
20°-30°	298.2	7.6
30°-40°	356.1	9.1
40°-50°	366.3	9.3
50°-60°	329.6	8.4
60°-70°	249.2	6.3
70°-80°	141.7	3.6
80°-90°	37.5	1.0
90°-100°	17.7	0.5
100°-110°	76.8	2.0
110°-120°	219.1	5.6
120°-130°	333.2	8.5
130°-140°	360.4	9.2
140°-150°	344.3	8.8
150°-160°	283.2	7.2
160°-170°	185.0	4.7
170°-180°	64.0	1.6
0°-30°	565.9	14.4
0°-40°	922.0	23.5
0°-60°	1617.8	41.2
0°-90°	2046.2	52.1
90°-120°	313.7	8.0
90°-150°	1351.6	34.4
90°-180°	1884.0	47.9
0°-180°	3930.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	733	733	733	733	733	
5°	730	730	738	730	727	69
15°	706	707	710	702	697	199
25°	650	656	656	646	635	299
35°	572	578	580	567	556	357
45°	476	482	486	471	460	367
55°	368	376	379	364	350	329
65°	249	256	262	246	234	248
75°	133	137	140	130	122	140
85°	29	34	32	29	26	35
90°	0	0	0	0	0	1
95°	3	4	12	29	27	4
105°	18	45	89	61	65	21
115°	162	430	222	106	119	222
125°	644	567	355	174	150	566
135°	713	645	466	289	229	550
145°	743	695	556	412	351	465
155°	751	718	621	515	468	347
165°	734	718	665	596	568	209
175°	691	693	681	656	638	67
180°	675	675	675	675	675	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4
2.5°	730.0	732.5	732.5	731.8	738.4	731.8	733.4	731.6	729.2
5°	730.2	730.2	730.2	729.4	737.5	728.3	730.2	727.1	727.1
7.5°	725.8	726.0	726.9	724.2	733.2	722.9	724.8	721.5	722.3
10°	720.8	721.8	721.9	720.0	728.1	717.9	719.8	715.6	715.6
12.5°	715.8	716.0	716.8	714.1	722.3	711.2	713.1	708.9	708.0
15°	706.2	706.2	707.2	703.2	710.3	700.1	702.0	696.7	696.7
17.5°	692.1	691.9	694.4	689.2	696.5	685.1	688.8	682.3	680.4
20°	682.1	681.1	685.2	679.1	687.3	675.1	677.9	670.6	669.5
22.5°	669.5	668.5	674.4	668.3	675.6	663.3	666.2	656.4	656.2
25°	649.7	648.6	655.9	649.8	655.9	644.7	646.5	636.0	635.0
27.5°	627.1	627.1	635.7	628.5	635.4	624.2	625.0	614.3	614.3
30°	612.0	612.0	621.4	614.2	620.4	609.1	609.9	598.4	598.4
32.5°	596.1	596.1	603.8	598.3	604.5	593.2	593.2	581.7	581.7
35°	572.3	570.2	578.5	573.4	579.6	568.3	567.0	555.5	555.5
37.5°	543.6	542.6	551.7	548.1	553.0	542.0	539.0	527.9	528.9
40°	525.2	524.2	532.5	530.5	534.6	524.4	518.9	509.5	510.5
42.5°	505.9	504.1	512.4	511.3	515.3	505.1	500.5	490.2	490.4
45°	476.0	476.0	482.3	482.4	486.5	475.2	470.8	460.3	460.3
47.5°	444.2	444.4	450.9	451.2	455.1	445.3	440.4	429.1	428.9
50°	421.6	422.6	430.0	431.1	434.2	426.0	419.5	409.0	408.0
52.5°	402.4	400.9	408.2	410.1	412.4	404.2	397.8	387.3	386.2
55°	368.3	369.3	375.6	378.7	378.7	371.6	364.1	353.5	350.5
57.5°	334.4	335.8	340.8	344.8	345.9	337.9	330.2	320.7	316.6
60°	311.8	310.7	319.1	322.2	323.3	316.1	307.6	298.1	294.0
62.5°	287.5	288.1	294.0	298.8	299.8	291.9	284.1	272.1	268.9
65°	249.0	252.1	256.3	259.5	261.5	255.4	245.8	236.4	234.3
67.5°	213.8	215.9	220.1	225.0	226.2	219.2	210.7	202.5	200.2
70°	190.4	192.4	196.7	199.9	201.9	195.8	187.3	179.9	176.8
72.5°	167.0	169.0	172.4	175.6	177.6	171.5	163.8	157.3	155.0
75°	132.9	134.9	137.0	139.2	140.2	136.1	129.7	123.4	122.4
77.5°	99.2	101.2	103.6	106.3	105.2	102.4	96.2	92.0	90.8
80°	77.4	79.5	82.6	83.7	82.6	80.6	75.3	71.1	69.0
82.5°	57.3	59.4	62.6	62.7	60.9	60.5	56.1	52.7	51.5
85°	29.3	31.3	33.5	34.5	32.4	32.4	29.3	26.2	26.2
87.5°	5.9	7.5	10.0	12.5	10.0	10.9	8.4	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.9	2.8	9.9	11.0	9.6	9.6
95°	2.9	2.9	4.0	12.6	12.0	20.4	28.7	26.9	26.9
97.5°	5.8	6.4	9.2	37.3	28.1	27.3	38.7	43.1	43.9
100°	8.6	9.2	13.8	60.9	41.8	35.7	42.4	50.5	52.2
102.5°	11.8	12.8	22.0	95.8	58.8	41.9	48.4	55.5	57.7
105°	17.8	19.4	45.3	160.6	88.8	54.6	60.7	63.7	65.3
107.5°	26.4	33.2	122.0	225.6	126.1	72.2	78.6	78.2	79.7
110°	35.5	49.5	210.9	261.2	153.6	85.8	86.0	90.5	88.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	58.9	98.5	314.5	295.4	181.1	102.1	92.8	102.9	103.5
115°	161.6	277.6	429.8	343.4	221.8	131.0	105.5	115.3	119.2
117.5°	400.7	483.0	488.9	386.0	262.4	163.3	119.9	124.3	129.4
120°	543.3	560.1	516.4	412.1	289.4	186.3	131.8	130.2	135.8
122.5°	599.2	593.2	538.8	436.5	316.0	210.7	146.5	137.5	141.3
125°	644.2	628.5	566.8	470.2	354.8	247.2	174.2	149.6	149.6
127.5°	671.0	652.7	592.5	500.1	389.7	284.0	207.6	169.2	163.9
130°	686.6	667.0	608.1	520.8	412.6	307.8	231.0	186.1	177.7
132.5°	698.5	680.7	622.7	537.0	435.1	331.2	254.3	207.0	193.3
135°	712.9	697.8	645.3	561.8	466.5	366.2	289.4	243.3	229.2
137.5°	722.2	710.5	665.6	582.1	495.6	400.9	324.8	278.5	265.8
140°	727.3	717.7	675.7	594.2	513.5	423.3	349.6	302.3	290.6
142.5°	732.3	724.6	683.0	607.6	530.9	445.6	373.9	326.6	313.9
145°	742.7	733.8	695.2	623.7	555.9	476.9	411.5	361.9	350.7
147.5°	750.1	739.3	705.1	641.1	579.5	505.2	446.0	398.2	387.1
150°	751.9	740.7	710.7	650.3	593.7	522.6	467.1	421.6	410.9
152.5°	750.5	742.0	714.8	658.2	605.7	539.4	486.3	444.0	434.3
155°	751.3	743.5	718.1	668.9	620.7	563.0	515.2	477.7	467.7
157.5°	747.9	742.7	720.4	677.0	634.5	584.0	541.7	510.2	500.0
160°	747.9	740.1	720.4	681.7	644.2	597.7	558.2	529.9	521.5
162.5°	742.9	735.9	719.9	685.1	653.3	610.4	573.8	547.4	541.2
165°	733.6	728.0	717.5	689.5	664.8	627.8	596.0	572.4	568.5
167.5°	726.4	718.6	712.9	689.3	672.6	640.3	614.8	595.3	593.0
170°	718.1	713.1	708.4	688.0	676.3	649.4	628.1	608.6	606.3
172.5°	707.6	704.8	702.4	687.2	678.6	657.0	639.6	621.8	617.8
175°	691.2	693.4	692.9	685.3	680.8	666.8	656.2	643.5	638.4
177.5°	681.1	680.2	682.5	681.1	680.6	672.1	669.2	660.5	663.2
180°	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1

(END OF REPORT)