

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: P522339

Luminaire Tested: **SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522339  
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-050U-050D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

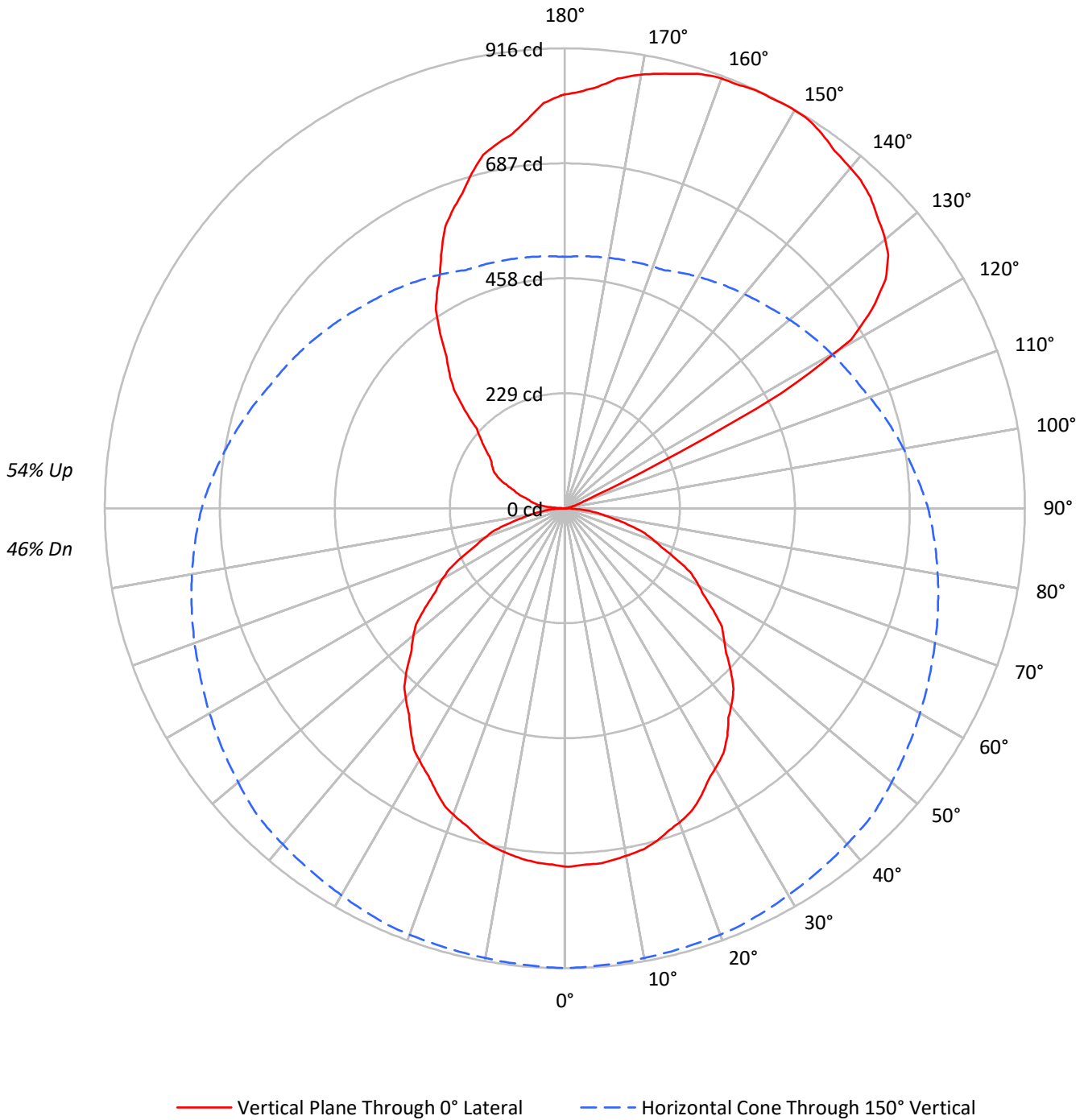
Lumens per Lamp: N/A  
Luminaire Lumens: 4285.2 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 39  
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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	45	44	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

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

	0°	90°	180°
0°	11525	11525	11525
5°	11520	11635	11470
10°	11503	11619	11419
15°	11488	11557	11336
20°	11407	11495	11198
25°	11266	11375	11011
30°	11106	11257	10860
35°	10979	11119	10657
40°	10775	10966	10473
45°	10579	10812	10229
50°	10309	10615	9975
55°	10089	10376	9602
60°	9801	10162	9239
65°	9261	9727	8714
70°	8748	9276	8124
75°	8066	8515	7430
80°	7011	7476	6248
85°	5280	5854	4724



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.5	1.6
10°-20°	193.0	4.5
20°-30°	290.3	6.8
30°-40°	346.6	8.1
40°-50°	356.5	8.3
50°-60°	320.8	7.5
60°-70°	242.6	5.7
70°-80°	138.0	3.2
80°-90°	36.5	0.9
90°-100°	21.6	0.5
100°-110°	93.6	2.2
110°-120°	266.8	6.2
120°-130°	405.6	9.5
130°-140°	438.7	10.2
140°-150°	419.2	9.8
150°-160°	344.8	8.0
160°-170°	225.3	5.3
170°-180°	77.9	1.8
0°-30°	550.8	12.9
0°-40°	897.4	20.9
0°-60°	1574.7	36.7
0°-90°	1991.7	46.5
90°-120°	381.9	8.9
90°-150°	1645.5	38.4
90°-180°	2294.0	53.5
0°-180°	4285.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	714	714	714	714	714	
5°	711	711	718	711	708	68
15°	687	688	691	683	678	194
25°	632	638	638	629	618	291
35°	557	563	564	552	541	347
45°	463	469	474	458	448	357
55°	358	366	369	354	341	320
65°	242	250	255	239	228	241
75°	129	133	136	126	119	137
85°	28	33	32	28	26	34
90°	0	0	0	0	0	1
95°	4	5	15	35	33	4
105°	22	55	108	74	80	25
115°	197	523	270	128	145	271
125°	784	690	432	212	182	689
135°	868	786	568	352	279	669
145°	904	846	677	501	427	566
155°	915	874	756	627	569	423
165°	893	874	809	726	692	254
175°	842	844	829	799	777	82
180°	822	822	822	822	822	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	713.8	713.8	713.8	713.8	713.8	713.8	713.8	713.8	713.8
2.5°	710.6	713.0	713.0	712.3	718.7	712.3	713.8	712.1	709.8
5°	710.8	710.8	710.8	709.9	717.9	708.9	710.8	707.7	707.7
7.5°	706.5	706.7	707.5	704.9	713.6	703.7	705.5	702.2	703.0
10°	701.6	702.6	702.6	700.8	708.7	698.8	700.6	696.5	696.5
12.5°	696.7	696.9	697.7	695.1	703.0	692.3	694.1	690.0	689.2
15°	687.3	687.3	688.4	684.5	691.4	681.5	683.3	678.2	678.2
17.5°	673.7	673.5	675.9	670.8	678.0	666.8	670.4	664.1	662.3
20°	663.9	662.9	667.0	661.1	669.0	657.1	659.9	652.7	651.7
22.5°	651.7	650.7	656.4	650.4	657.6	645.7	648.4	638.9	638.7
25°	632.4	631.4	638.5	632.5	638.5	627.5	629.3	619.1	618.1
27.5°	610.4	610.4	618.7	611.7	618.5	607.6	608.3	597.9	597.9
30°	595.7	595.7	604.9	597.9	603.8	592.9	593.7	582.5	582.5
32.5°	580.2	580.2	587.8	582.4	588.4	577.4	577.4	566.2	566.2
35°	557.0	555.0	563.1	558.2	564.1	553.2	551.9	540.7	540.7
37.5°	529.1	528.1	537.0	533.5	538.3	527.5	524.6	513.9	514.8
40°	511.2	510.2	518.3	516.4	520.3	510.4	505.1	495.9	496.9
42.5°	492.4	490.7	498.8	497.6	501.6	491.7	487.2	477.2	477.4
45°	463.3	463.3	469.4	469.5	473.5	462.6	458.2	448.0	448.0
47.5°	432.4	432.6	438.9	439.2	443.0	433.4	428.7	417.7	417.5
50°	410.4	411.4	418.5	419.6	422.6	414.6	408.3	398.1	397.1
52.5°	391.6	390.2	397.3	399.2	401.4	393.4	387.2	376.9	376.0
55°	358.4	359.4	365.6	368.6	368.6	361.7	354.4	344.1	341.1
57.5°	325.4	326.8	331.8	335.7	336.6	328.9	321.4	312.1	308.1
60°	303.5	302.5	310.6	313.7	314.7	307.7	299.4	290.1	286.1
62.5°	279.8	280.4	286.1	290.8	291.8	284.1	276.6	264.9	261.7
65°	242.4	245.3	249.5	252.6	254.6	248.6	239.3	230.1	228.1
67.5°	208.1	210.1	214.2	219.0	220.2	213.4	205.1	197.1	194.9
70°	185.3	187.3	191.4	194.5	196.5	190.6	182.3	175.1	172.1
72.5°	162.5	164.5	167.8	170.9	172.9	166.9	159.5	153.1	150.9
75°	129.3	131.3	133.4	135.5	136.5	132.5	126.3	120.1	119.1
77.5°	96.5	98.5	100.8	103.4	102.4	99.7	93.7	89.6	88.4
80°	75.4	77.3	80.4	81.4	80.4	78.5	73.3	69.2	67.2
82.5°	55.8	57.8	60.9	61.1	59.3	58.9	54.6	51.3	50.1
85°	28.5	30.5	32.6	33.6	31.6	31.6	28.5	25.5	25.5
87.5°	5.7	7.3	9.8	12.2	9.8	10.6	8.1	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	2.3	3.3	12.1	13.4	11.7	11.7
95°	3.5	3.5	4.9	15.3	14.7	24.9	34.9	32.8	32.8
97.5°	7.1	7.8	11.2	45.4	34.2	33.2	47.2	52.5	53.4
100°	10.5	11.1	16.7	74.1	50.9	43.4	51.6	61.4	63.5
102.5°	14.4	15.6	26.8	116.6	71.6	51.0	58.9	67.6	70.2
105°	21.6	23.7	55.1	195.5	108.2	66.5	74.0	77.5	79.5
107.5°	32.1	40.4	148.5	274.7	153.5	87.9	95.7	95.2	97.0
110°	43.3	60.3	256.8	318.0	187.0	104.4	104.7	110.2	108.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	71.7	119.9	382.9	359.7	220.5	124.3	113.0	125.3	126.0
115°	196.8	338.0	523.3	418.1	270.0	159.5	128.4	140.4	145.1
117.5°	487.9	588.0	595.2	469.9	319.4	198.8	146.0	151.3	157.6
120°	661.5	681.9	628.7	501.8	352.4	226.8	160.5	158.5	165.4
122.5°	729.6	722.2	656.0	531.4	384.7	256.5	178.3	167.4	172.1
125°	784.3	765.2	690.1	572.5	431.9	300.9	212.1	182.1	182.1
127.5°	816.9	794.7	721.3	608.9	474.5	345.8	252.7	206.0	199.6
130°	835.9	812.0	740.3	634.1	502.4	374.8	281.2	226.5	216.3
132.5°	850.4	828.7	758.2	653.8	529.7	403.2	309.7	252.1	235.3
135°	868.0	849.6	785.7	684.0	568.0	445.8	352.4	296.2	279.1
137.5°	879.3	865.0	810.4	708.8	603.4	488.1	395.5	339.0	323.6
140°	885.4	873.8	822.7	723.4	625.2	515.3	425.6	368.1	353.8
142.5°	891.6	882.2	831.6	739.7	646.4	542.6	455.2	397.6	382.2
145°	904.3	893.4	846.4	759.4	676.8	580.6	501.0	440.7	427.0
147.5°	913.2	900.1	858.5	780.5	705.6	615.1	543.0	484.8	471.3
150°	915.5	901.8	865.2	791.8	722.9	636.2	568.7	513.3	500.3
152.5°	913.8	903.4	870.2	801.4	737.4	656.7	592.1	540.6	528.8
155°	914.8	905.2	874.3	814.3	755.7	685.4	627.3	581.6	569.4
157.5°	910.6	904.3	877.1	824.3	772.6	711.0	659.5	621.1	608.7
160°	910.6	901.0	877.1	830.0	784.3	727.6	679.6	645.2	635.0
162.5°	904.4	896.0	876.5	834.1	795.4	743.2	698.6	666.5	659.0
165°	893.1	886.3	873.6	839.4	809.4	764.4	725.7	696.9	692.2
167.5°	884.3	874.9	868.0	839.2	818.9	779.6	748.5	724.8	722.0
170°	874.3	868.1	862.4	837.7	823.3	790.6	764.7	741.0	738.2
172.5°	861.4	858.0	855.2	836.6	826.1	799.9	778.7	757.1	752.2
175°	841.5	844.2	843.6	834.4	828.9	811.9	798.9	783.4	777.3
177.5°	829.2	828.1	830.9	829.2	828.7	818.3	814.7	804.2	807.4
180°	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0

(END OF REPORT)