

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: P522419

Luminaire Tested: **SQW-F-0U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522419  
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-0U-050D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

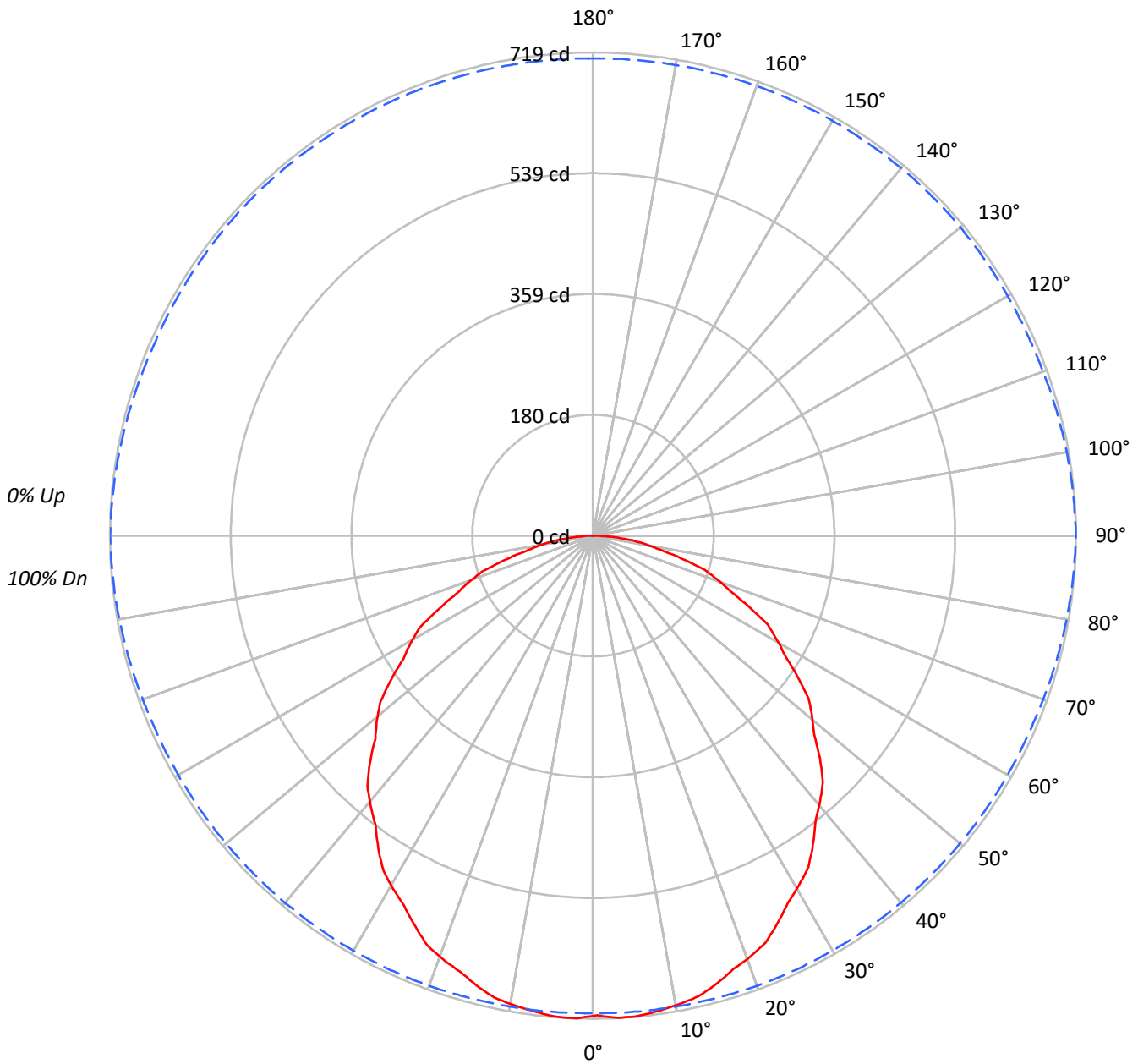
Lumens per Lamp: N/A  
Luminaire Lumens: 1991.7 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.3  
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



TEST NUMBER: P522419  
CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (4000K)

### Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral      - - - Horizontal Cone Through 2.5° Vertical



TEST NUMBER: P522419

CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (4000K)

**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	55	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	42	36		48	41	36		46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32		44	37	32		42	36	32	30
9	57	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°	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



TEST NUMBER: P522419

CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.5	3.4
10°-20°	193.0	9.7
20°-30°	290.3	14.6
30°-40°	346.6	17.4
40°-50°	356.5	17.9
50°-60°	320.8	16.1
60°-70°	242.6	12.2
70°-80°	138.0	6.9
80°-90°	36.5	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°	550.8	27.7
0°-40°	897.4	45.1
0°-60°	1574.7	79.1
0°-90°	1991.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.7	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	35
90°	0	0	0	0	0	



TEST NUMBER: P522419

CATALOG NUMBER: SQW-F-OU-050D-92765-1D-UNV-STD-W-4 (4000K)

**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

(END OF REPORT)