

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: P522299

Luminaire Tested: **SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522299  
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 (4000K)  
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 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

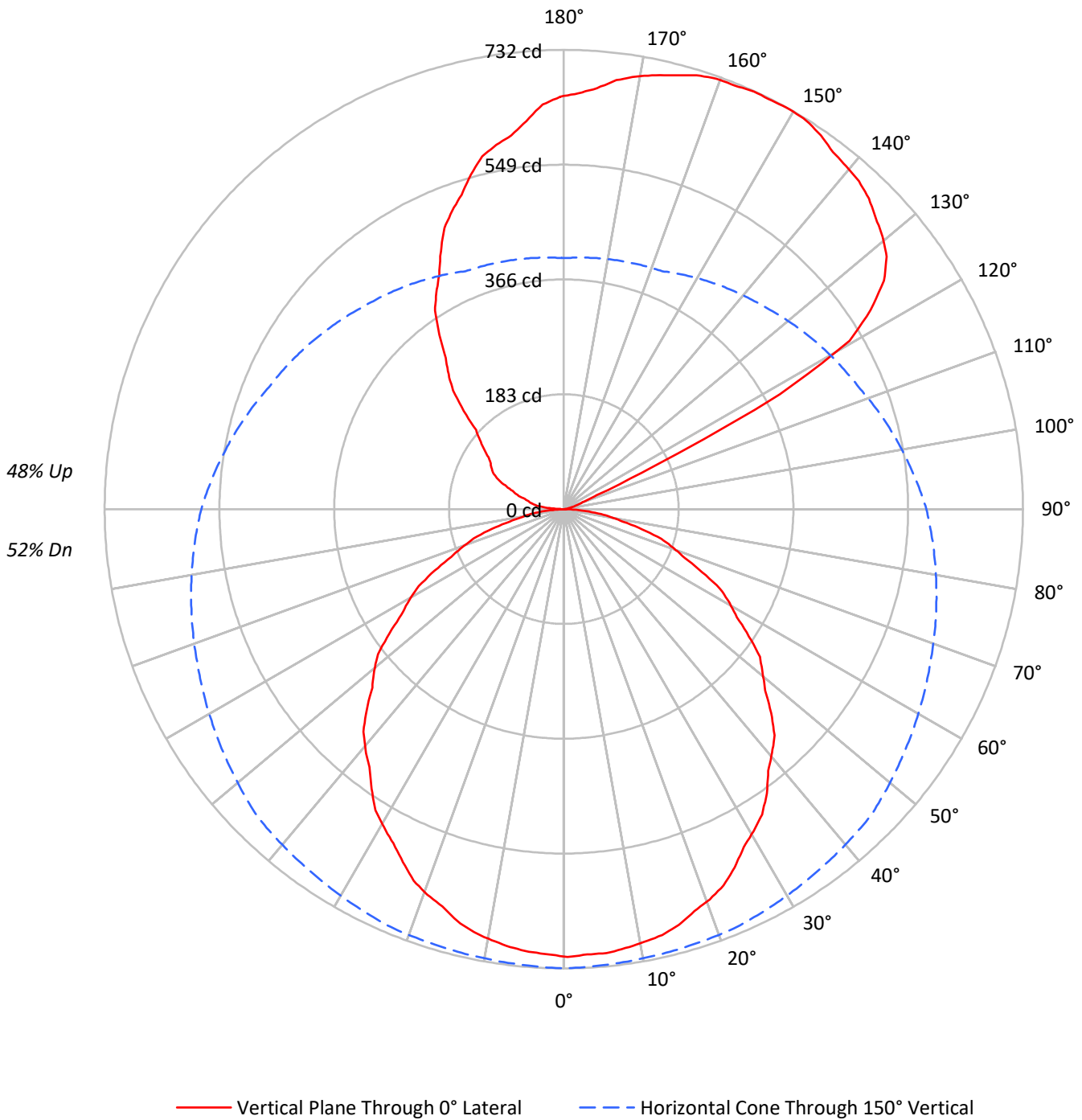
Lumens per Lamp: N/A  
Luminaire Lumens: 3825.3 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 35.5  
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: P522299  
CATALOG NUMBER: SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P522299

CATALOG NUMBER: SQW-F-025U-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	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°	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: P522299

CATALOG NUMBER: SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.5	1.8
10°-20°	193.0	5.0
20°-30°	290.3	7.6
30°-40°	346.6	9.1
40°-50°	356.5	9.3
50°-60°	320.8	8.4
60°-70°	242.6	6.3
70°-80°	138.0	3.6
80°-90°	36.5	1.0
90°-100°	17.3	0.5
100°-110°	74.8	2.0
110°-120°	213.3	5.6
120°-130°	324.3	8.5
130°-140°	350.8	9.2
140°-150°	335.2	8.8
150°-160°	275.6	7.2
160°-170°	180.1	4.7
170°-180°	62.3	1.6
0°-30°	550.8	14.4
0°-40°	897.4	23.5
0°-60°	1574.7	41.2
0°-90°	1991.7	52.1
90°-120°	305.3	8.0
90°-150°	1315.6	34.4
90°-180°	1834.0	47.9
0°-180°	3825.3	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°	3	4	12	28	26	4
105°	17	44	86	59	64	20
115°	157	418	216	103	116	216
125°	627	552	345	170	146	551
135°	694	628	454	282	223	535
145°	723	677	541	400	341	453
155°	731	699	604	502	455	338
165°	714	698	647	580	553	203
175°	673	674	663	639	621	65
180°	657	657	657	657	657	



TEST NUMBER: P522299

CATALOG NUMBER: SQW-F-025U-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
92.5°	0.9	0.9	0.9	1.8	2.7	9.7	10.7	9.4	9.4
95°	2.8	2.8	3.9	12.3	11.7	19.9	27.9	26.2	26.2
97.5°	5.7	6.2	8.9	36.3	27.3	26.6	37.7	42.0	42.7
100°	8.4	8.9	13.4	59.3	40.7	34.7	41.3	49.1	50.8
102.5°	11.5	12.5	21.4	93.2	57.2	40.8	47.1	54.0	56.1
105°	17.3	18.9	44.1	156.3	86.5	53.2	59.1	62.0	63.6
107.5°	25.7	32.3	118.7	219.6	122.7	70.3	76.5	76.1	77.5
110°	34.6	48.2	205.3	254.2	149.5	83.5	83.7	88.1	86.5



TEST NUMBER: P522299

CATALOG NUMBER: SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	57.3	95.9	306.1	287.5	176.3	99.4	90.4	100.2	100.7
115°	157.3	270.2	418.4	334.2	215.9	127.5	102.6	112.2	116.0
117.5°	390.0	470.1	475.8	375.7	255.4	158.9	116.7	120.9	126.0
120°	528.8	545.2	502.6	401.2	281.7	181.3	128.3	126.8	132.2
122.5°	583.3	577.4	524.5	424.9	307.6	205.0	142.6	133.9	137.6
125°	627.0	611.7	551.7	457.7	345.3	240.6	169.6	145.6	145.6
127.5°	653.1	635.3	576.7	486.8	379.3	276.5	202.0	164.7	159.5
130°	668.3	649.2	591.9	506.9	401.6	299.6	224.8	181.1	172.9
132.5°	679.9	662.5	606.1	522.7	423.5	322.4	247.6	201.5	188.1
135°	693.9	679.2	628.1	546.8	454.1	356.4	281.7	236.8	223.1
137.5°	703.0	691.5	647.9	566.6	482.4	390.2	316.2	271.1	258.7
140°	707.9	698.6	657.7	578.4	499.8	412.0	340.3	294.3	282.8
142.5°	712.8	705.3	664.8	591.4	516.8	433.8	363.9	317.9	305.6
145°	723.0	714.2	676.7	607.1	541.1	464.2	400.5	352.3	341.4
147.5°	730.1	719.6	686.4	624.0	564.1	491.8	434.1	387.6	376.8
150°	731.9	721.0	691.7	633.0	577.9	508.6	454.6	410.3	400.0
152.5°	730.5	722.2	695.7	640.7	589.5	525.0	473.4	432.2	422.7
155°	731.3	723.7	699.0	651.0	604.1	548.0	501.5	465.0	455.2
157.5°	728.0	723.0	701.2	659.0	617.6	568.4	527.3	496.6	486.7
160°	728.0	720.3	701.2	663.6	627.0	581.7	543.3	515.8	507.6
162.5°	723.1	716.3	700.8	666.8	635.9	594.2	558.5	532.8	526.8
165°	714.0	708.6	698.4	671.1	647.1	611.1	580.1	557.2	553.4
167.5°	707.0	699.5	693.9	670.9	654.7	623.3	598.4	579.4	577.2
170°	699.0	694.1	689.5	669.7	658.2	632.1	611.4	592.4	590.2
172.5°	688.7	686.0	683.7	668.9	660.5	639.5	622.5	605.3	601.3
175°	672.7	674.9	674.4	667.1	662.7	649.1	638.7	626.3	621.4
177.5°	662.9	662.1	664.3	662.9	662.5	654.2	651.3	642.9	645.5
180°	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1

(END OF REPORT)