

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: P522332

Luminaire Tested: **SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522332  
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-025D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

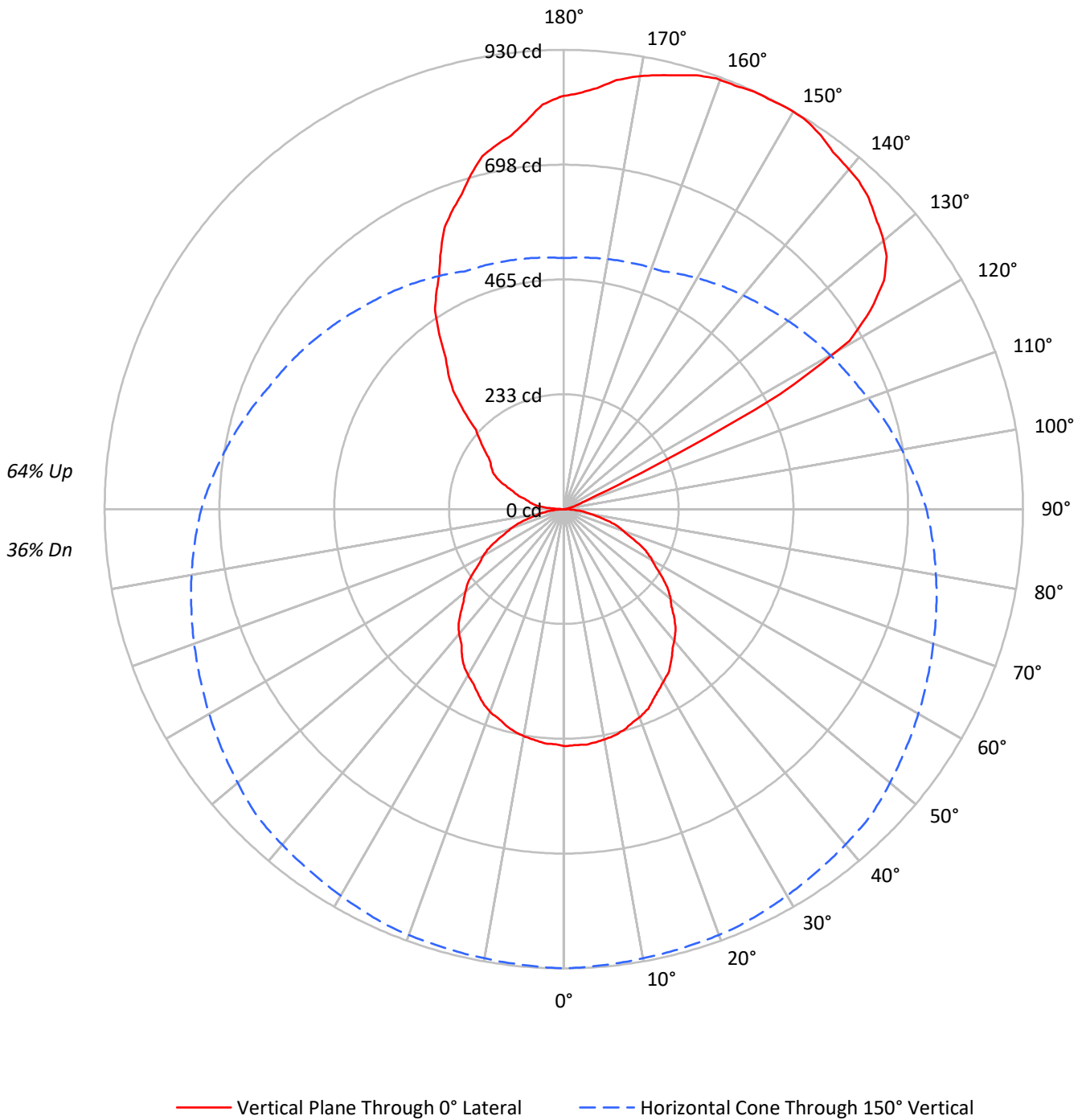
Lumens per Lamp: N/A  
Luminaire Lumens: 3669.6 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 31.9  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	90	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37	31
2	86	79	73	68	78	72	66	62	58	54	51	45	43	41	34	32	31	25
3	78	69	62	56	71	63	57	52	51	46	43	40	37	34	30	28	26	21
4	72	61	53	47	65	56	49	44	45	40	36	36	32	29	27	24	22	18
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	16
6	60	49	41	35	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8	52	40	32	27	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	26	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

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

	0°	90°	180°
0°	7752	7752	7752
5°	7765	7831	7715
10°	7753	7820	7668
15°	7731	7783	7611
20°	7680	7734	7538
25°	7557	7650	7391
30°	7485	7562	7273
35°	7403	7484	7159
40°	7284	7371	7000
45°	7158	7254	6827
50°	7018	7121	6601
55°	6787	6961	6407
60°	6581	6781	6148
65°	6246	6602	5849
70°	5910	6302	5471
75°	5490	5808	4903
80°	4909	5095	4333
85°	3649	3835	2871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.4	1.2
10°-20°	129.9	3.5
20°-30°	195.3	5.3
30°-40°	233.5	6.4
40°-50°	240.0	6.5
50°-60°	214.4	5.8
60°-70°	162.9	4.4
70°-80°	93.1	2.5
80°-90°	24.6	0.7
90°-100°	21.9	0.6
100°-110°	95.1	2.6
110°-120°	271.1	7.4
120°-130°	412.2	11.2
130°-140°	445.8	12.1
140°-150°	426.0	11.6
150°-160°	350.4	9.5
160°-170°	228.9	6.2
170°-180°	79.2	2.2
0°-30°	370.6	10.1
0°-40°	604.1	16.5
0°-60°	1058.5	28.8
0°-90°	1339.1	36.5
90°-120°	388.1	10.6
90°-150°	1672.1	45.6
90°-180°	2331.0	63.5
0°-180°	3669.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	480	480	480	480	480	
5°	479	479	483	478	476	45
15°	462	464	466	459	455	130
25°	424	429	429	422	415	196
35°	376	381	380	372	363	235
45°	314	318	318	308	299	242
55°	241	245	247	235	228	216
65°	164	169	173	160	153	162
75°	88	91	93	84	79	93
85°	20	23	21	19	16	24
90°	0	0	0	0	0	1
95°	4	5	15	36	33	4
105°	22	56	110	75	81	25
115°	200	532	274	130	148	275
125°	797	701	439	216	185	700
135°	882	798	577	358	284	680
145°	919	860	688	509	434	576
155°	930	888	768	637	579	430
165°	908	888	822	737	703	258
175°	855	857	842	812	790	83
180°	835	835	835	835	835	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1
2.5°	478.5	479.3	480.1	480.2	484.3	479.4	479.3	478.4	476.8
5°	479.1	479.1	479.1	478.2	483.2	477.1	478.0	476.0	476.0
7.5°	476.2	475.4	475.6	474.4	479.5	473.2	473.3	472.0	471.8
10°	472.9	472.9	473.9	471.9	477.0	469.9	470.8	468.7	467.7
12.5°	469.6	468.7	469.8	467.8	472.9	465.8	465.8	462.9	462.7
15°	462.5	462.5	463.6	461.6	465.6	459.6	459.4	456.3	455.3
17.5°	453.6	453.4	455.7	452.7	456.7	449.6	449.7	447.0	445.3
20°	447.0	446.0	449.1	446.1	450.1	443.0	443.9	438.7	438.7
22.5°	438.7	437.7	441.6	437.8	441.8	434.7	435.6	429.6	428.8
25°	424.2	425.2	429.4	426.4	429.4	422.3	422.2	415.9	414.9
27.5°	412.2	411.4	416.8	412.5	415.5	408.5	408.5	401.0	400.0
30°	401.5	401.5	407.7	402.6	405.6	398.5	399.4	391.1	390.1
32.5°	391.5	391.5	396.9	393.5	395.7	388.6	387.8	380.3	379.3
35°	375.6	375.6	380.8	377.7	379.7	372.7	371.5	363.2	363.2
37.5°	358.0	357.2	362.2	360.1	362.2	355.3	352.8	345.6	344.6
40°	345.6	345.6	349.7	347.7	349.7	343.7	340.4	333.2	332.1
42.5°	332.4	332.4	337.3	335.3	337.3	330.4	327.2	319.9	318.9
45°	313.5	313.5	317.7	316.6	317.7	311.6	308.3	300.0	299.0
47.5°	293.4	292.6	296.6	296.8	298.4	291.7	287.4	279.6	278.5
50°	279.4	279.4	282.5	283.5	283.5	278.5	274.2	263.8	262.8
52.5°	262.8	263.6	266.8	267.8	268.6	261.9	257.6	249.8	248.7
55°	241.1	240.1	245.2	246.3	247.3	241.2	234.9	228.7	227.6
57.5°	218.7	218.5	222.9	224.1	224.9	219.9	213.6	206.5	205.3
60°	203.8	202.8	208.0	210.0	210.0	205.0	198.7	192.4	190.4
62.5°	186.5	188.7	192.3	194.4	196.0	190.1	182.9	177.5	175.5
65°	163.5	164.5	168.7	170.8	172.8	166.7	160.4	155.2	153.1
67.5°	140.1	141.9	145.1	147.2	149.2	143.3	137.0	132.6	130.8
70°	125.2	126.2	129.3	131.5	133.5	128.4	122.1	116.9	115.9
72.5°	110.3	111.3	114.4	115.7	116.9	111.9	106.4	102.8	101.0
75°	88.0	89.0	91.1	92.1	93.1	88.1	83.8	80.7	78.6
77.5°	66.8	66.8	68.9	69.7	69.7	66.7	62.7	59.8	58.2
80°	52.8	52.8	54.8	54.8	54.8	51.8	48.6	46.6	46.6
82.5°	38.7	39.5	41.6	41.6	40.8	38.5	36.2	34.1	34.1
85°	19.7	20.7	22.8	22.7	20.7	20.7	18.6	17.5	15.5
87.5°	5.0	5.8	7.5	8.2	6.6	6.6	5.0	3.3	3.3
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	3.4	12.3	13.6	11.9	11.9
95°	3.5	3.5	5.0	15.6	14.9	25.3	35.5	33.3	33.3
97.5°	7.2	7.9	11.3	46.1	34.7	33.8	47.9	53.3	54.3
100°	10.6	11.3	17.0	75.3	51.8	44.1	52.5	62.4	64.5
102.5°	14.6	15.9	27.2	118.5	72.7	51.8	59.8	68.7	71.3
105°	22.0	24.1	56.0	198.6	109.9	67.6	75.2	78.7	80.8
107.5°	32.6	41.1	150.9	279.1	156.0	89.3	97.3	96.7	98.6
110°	44.0	61.3	260.9	323.1	190.0	106.1	106.4	112.0	109.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	72.9	121.8	389.1	365.5	224.0	126.3	114.9	127.4	128.0
115°	199.9	343.4	531.8	424.8	274.4	162.1	130.5	142.6	147.5
117.5°	495.7	597.5	604.8	477.5	324.6	202.0	148.3	153.7	160.1
120°	672.1	692.9	638.8	509.9	358.0	230.5	163.1	161.1	168.0
122.5°	741.3	733.9	666.6	540.0	390.9	260.6	181.2	170.1	174.8
125°	796.9	777.5	701.2	581.7	438.9	305.8	215.5	185.1	185.1
127.5°	830.1	807.5	733.0	618.7	482.1	351.4	256.8	209.3	202.8
130°	849.4	825.1	752.3	644.3	510.5	380.8	285.7	230.2	219.8
132.5°	864.1	842.1	770.4	664.3	538.3	409.7	314.7	256.1	239.1
135°	882.0	863.3	798.3	695.0	577.1	453.0	358.0	300.9	283.6
137.5°	893.5	878.9	823.4	720.2	613.2	496.0	401.9	344.5	328.8
140°	899.7	887.9	835.9	735.1	635.3	523.7	432.5	374.0	359.5
142.5°	906.0	896.4	845.0	751.7	656.8	551.3	462.6	404.1	388.4
145°	918.9	907.8	860.0	771.6	687.7	590.0	509.1	447.8	433.9
147.5°	927.9	914.6	872.4	793.1	716.9	625.0	551.7	492.6	478.9
150°	930.2	916.4	879.2	804.6	734.5	646.5	577.8	521.5	508.4
152.5°	928.5	918.0	884.3	814.3	749.3	667.3	601.7	549.3	537.3
155°	929.5	919.8	888.4	827.5	767.9	696.5	637.4	591.0	578.6
157.5°	925.3	918.9	891.2	837.6	785.0	722.5	670.2	631.2	618.5
160°	925.3	915.5	891.2	843.4	796.9	739.4	690.6	655.6	645.2
162.5°	919.0	910.4	890.7	847.5	808.3	755.2	709.9	677.2	669.6
165°	907.5	900.6	887.7	853.0	822.4	776.7	737.4	708.2	703.3
167.5°	898.6	889.0	882.0	852.8	832.1	792.2	760.6	736.5	733.7
170°	888.4	882.1	876.3	851.2	836.6	803.4	777.1	752.9	750.1
172.5°	875.3	871.9	869.0	850.1	839.5	812.8	791.3	769.3	764.3
175°	855.1	857.8	857.2	847.8	842.3	825.0	811.8	796.1	789.8
177.5°	842.6	841.5	844.3	842.6	842.0	831.5	827.8	817.1	820.5
180°	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2

(END OF REPORT)