

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: P522330

Luminaire Tested: **SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522330  
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 (3500K)  
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 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

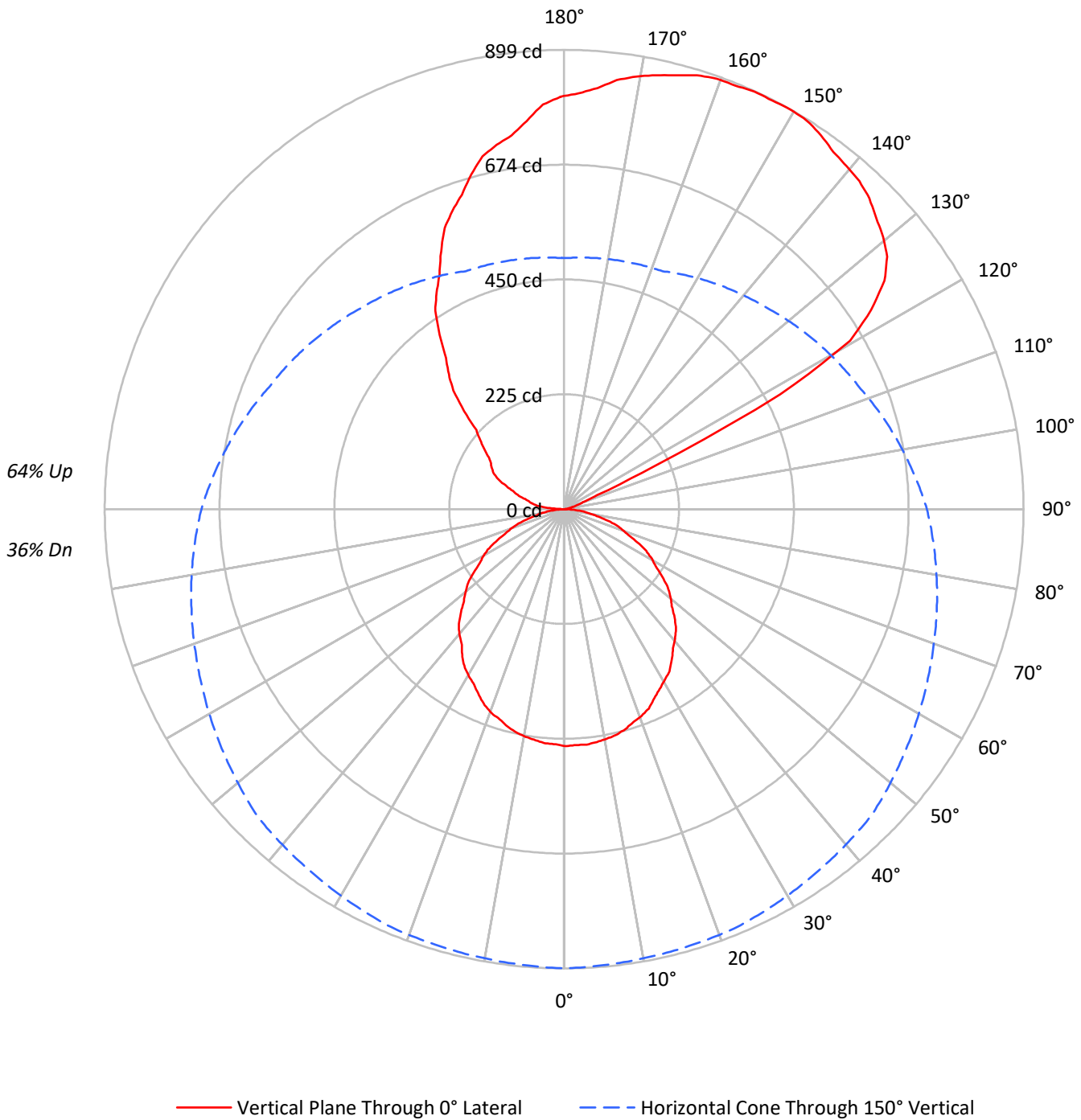
Lumens per Lamp: N/A  
Luminaire Lumens: 3546.5 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

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°	7492	7492	7492
5°	7504	7569	7455
10°	7492	7558	7411
15°	7472	7522	7355
20°	7423	7474	7285
25°	7304	7393	7144
30°	7234	7308	7029
35°	7155	7234	6918
40°	7040	7124	6766
45°	6919	7010	6599
50°	6782	6882	6380
55°	6559	6728	6193
60°	6361	6555	5942
65°	6036	6380	5654
70°	5712	6090	5287
75°	5303	5614	4741
80°	4742	4928	4184
85°	3520	3705	2779



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.9	1.2
10°-20°	125.5	3.5
20°-30°	188.7	5.3
30°-40°	225.7	6.4
40°-50°	232.0	6.5
50°-60°	207.2	5.8
60°-70°	157.4	4.4
70°-80°	89.9	2.5
80°-90°	23.8	0.7
90°-100°	21.2	0.6
100°-110°	91.9	2.6
110°-120°	262.0	7.4
120°-130°	398.4	11.2
130°-140°	430.9	12.1
140°-150°	411.7	11.6
150°-160°	338.6	9.5
160°-170°	221.2	6.2
170°-180°	76.5	2.2
0°-30°	358.1	10.1
0°-40°	583.8	16.5
0°-60°	1023.0	28.8
0°-90°	1294.2	36.5
90°-120°	375.1	10.6
90°-150°	1616.0	45.6
90°-180°	2252.0	63.5
0°-180°	3546.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	464	464	464	464	464	
5°	463	463	467	462	460	44
15°	447	448	450	444	440	126
25°	410	415	415	408	401	189
35°	363	368	367	359	351	227
45°	303	307	307	298	289	234
55°	233	237	239	227	220	208
65°	158	163	167	155	148	156
75°	85	88	90	81	76	90
85°	19	22	20	18	15	23
90°	0	0	0	0	0	1
95°	3	5	14	34	32	4
105°	21	54	106	73	78	25
115°	193	514	265	126	142	266
125°	770	678	424	208	179	677
135°	852	772	558	346	274	657
145°	888	831	665	492	419	556
155°	898	859	742	616	559	415
165°	877	858	795	713	680	249
175°	826	828	814	785	763	80
180°	807	807	807	807	807	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	464.0	464.0	464.0	464.0	464.0	464.0	464.0	464.0	464.0
2.5°	462.4	463.2	464.0	464.1	468.0	463.3	463.2	462.4	460.8
5°	463.0	463.0	463.0	462.1	467.0	461.1	462.0	460.0	460.0
7.5°	460.2	459.4	459.6	458.5	463.4	457.3	457.4	456.2	456.0
10°	457.0	457.0	458.0	456.1	461.0	454.2	455.0	453.0	452.0
12.5°	453.8	453.0	454.0	452.1	457.0	450.2	450.2	447.4	447.2
15°	447.0	447.0	448.0	446.1	450.0	444.1	444.0	441.0	440.0
17.5°	438.4	438.2	440.4	437.5	441.4	434.6	434.6	432.0	430.4
20°	432.0	431.0	434.0	431.1	435.0	428.2	429.0	424.0	424.0
22.5°	424.0	423.0	426.8	423.1	427.0	420.2	421.0	415.2	414.4
25°	410.0	411.0	415.0	412.1	415.0	408.2	408.0	402.0	401.0
27.5°	398.4	397.6	402.8	398.7	401.6	394.8	394.8	387.6	386.6
30°	388.0	388.0	394.0	389.1	392.0	385.2	386.0	378.0	377.0
32.5°	378.4	378.4	383.6	380.3	382.4	375.6	374.8	367.6	366.6
35°	363.0	363.0	368.0	365.0	367.0	360.2	359.0	351.0	351.0
37.5°	346.0	345.2	350.0	348.0	350.0	343.4	341.0	334.0	333.0
40°	334.0	334.0	338.0	336.0	338.0	332.1	329.0	322.0	321.0
42.5°	321.2	321.2	326.0	324.0	326.0	319.4	316.2	309.2	308.2
45°	303.0	303.0	307.0	306.0	307.0	301.1	298.0	290.0	289.0
47.5°	283.6	282.8	286.6	286.8	288.4	281.9	277.8	270.2	269.2
50°	270.0	270.0	273.0	274.0	274.0	269.1	265.0	255.0	254.0
52.5°	254.0	254.8	257.8	258.8	259.6	253.1	249.0	241.4	240.4
55°	233.0	232.0	237.0	238.0	239.0	233.1	227.0	221.0	220.0
57.5°	211.4	211.2	215.4	216.6	217.4	212.5	206.4	199.6	198.4
60°	197.0	196.0	201.0	203.0	203.0	198.1	192.0	186.0	184.0
62.5°	180.2	182.4	185.8	187.8	189.4	183.7	176.8	171.6	169.6
65°	158.0	159.0	163.0	165.0	167.0	161.1	155.0	150.0	148.0
67.5°	135.4	137.2	140.2	142.2	144.2	138.5	132.4	128.2	126.4
70°	121.0	122.0	125.0	127.0	129.0	124.1	118.0	113.0	112.0
72.5°	106.6	107.6	110.6	111.8	113.0	108.1	102.8	99.4	97.6
75°	85.0	86.0	88.0	89.0	90.0	85.1	81.0	78.0	76.0
77.5°	64.6	64.6	66.6	67.4	67.4	64.5	60.6	57.8	56.2
80°	51.0	51.0	53.0	53.0	53.0	50.1	47.0	45.0	45.0
82.5°	37.4	38.2	40.2	40.2	39.4	37.2	35.0	33.0	33.0
85°	19.0	20.0	22.0	22.0	20.0	20.0	18.0	17.0	15.0
87.5°	4.8	5.6	7.2	8.0	6.4	6.4	4.8	3.2	3.2
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	2.2	3.3	11.9	13.2	11.5	11.5
95°	3.4	3.4	4.8	15.1	14.4	24.4	34.3	32.2	32.2
97.5°	7.0	7.7	11.0	44.6	33.6	32.6	46.3	51.5	52.5
100°	10.3	10.9	16.4	72.8	50.0	42.7	50.7	60.3	62.4
102.5°	14.1	15.3	26.3	114.5	70.3	50.1	57.8	66.4	68.9
105°	21.2	23.3	54.1	192.0	106.2	65.3	72.6	76.1	78.1
107.5°	31.5	39.7	145.8	269.7	150.7	86.3	94.0	93.5	95.2
110°	42.5	59.2	252.2	312.3	183.6	102.6	102.8	108.2	106.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	70.4	117.7	376.0	353.2	216.5	122.1	111.0	123.1	123.8
115°	193.2	331.9	513.9	410.6	265.2	156.6	126.1	137.8	142.5
117.5°	479.1	577.5	584.5	461.5	313.7	195.2	143.3	148.6	154.7
120°	649.6	669.7	617.4	492.8	346.0	222.8	157.6	155.7	162.4
122.5°	716.5	709.2	644.2	521.9	377.8	251.9	175.1	164.4	169.0
125°	770.2	751.4	677.7	562.2	424.1	295.5	208.3	178.8	178.8
127.5°	802.3	780.4	708.4	597.9	465.9	339.6	248.2	202.3	196.0
130°	820.9	797.4	727.0	622.7	493.4	368.1	276.1	222.5	212.4
132.5°	835.1	813.8	744.6	642.0	520.2	396.0	304.1	247.5	231.1
135°	852.4	834.3	771.6	671.7	557.8	437.8	346.0	290.8	274.1
137.5°	863.5	849.4	795.8	696.0	592.6	479.3	388.4	332.9	317.8
140°	869.5	858.2	807.9	710.4	614.0	506.1	418.0	361.5	347.4
142.5°	875.6	866.3	816.6	726.4	634.8	532.8	447.0	390.5	375.4
145°	888.0	877.3	831.2	745.7	664.7	570.2	492.0	432.8	419.4
147.5°	896.8	883.9	843.1	766.5	692.9	604.1	533.2	476.1	462.8
150°	899.0	885.6	849.7	777.6	709.9	624.8	558.5	504.0	491.3
152.5°	897.4	887.2	854.6	787.0	724.1	644.9	581.5	530.9	519.3
155°	898.3	888.9	858.6	799.7	742.1	673.1	616.0	571.2	559.1
157.5°	894.2	888.0	861.3	809.5	758.7	698.2	647.7	610.0	597.8
160°	894.2	884.8	861.3	815.1	770.2	714.6	667.4	633.6	623.5
162.5°	888.2	879.9	860.8	819.1	781.1	729.8	686.0	654.5	647.1
165°	877.1	870.4	857.9	824.3	794.9	750.6	712.6	684.4	679.7
167.5°	868.4	859.2	852.4	824.1	804.2	765.6	735.1	711.7	709.1
170°	858.6	852.5	846.9	822.6	808.6	776.4	751.0	727.6	725.0
172.5°	846.0	842.6	839.8	821.6	811.3	785.6	764.7	743.5	738.7
175°	826.4	829.1	828.4	819.4	814.0	797.3	784.6	769.4	763.3
177.5°	814.3	813.2	816.0	814.3	813.8	803.6	800.1	789.7	792.9
180°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2

(END OF REPORT)