

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: P522333

Luminaire Tested: **SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522333  
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 (5000K)  
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 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

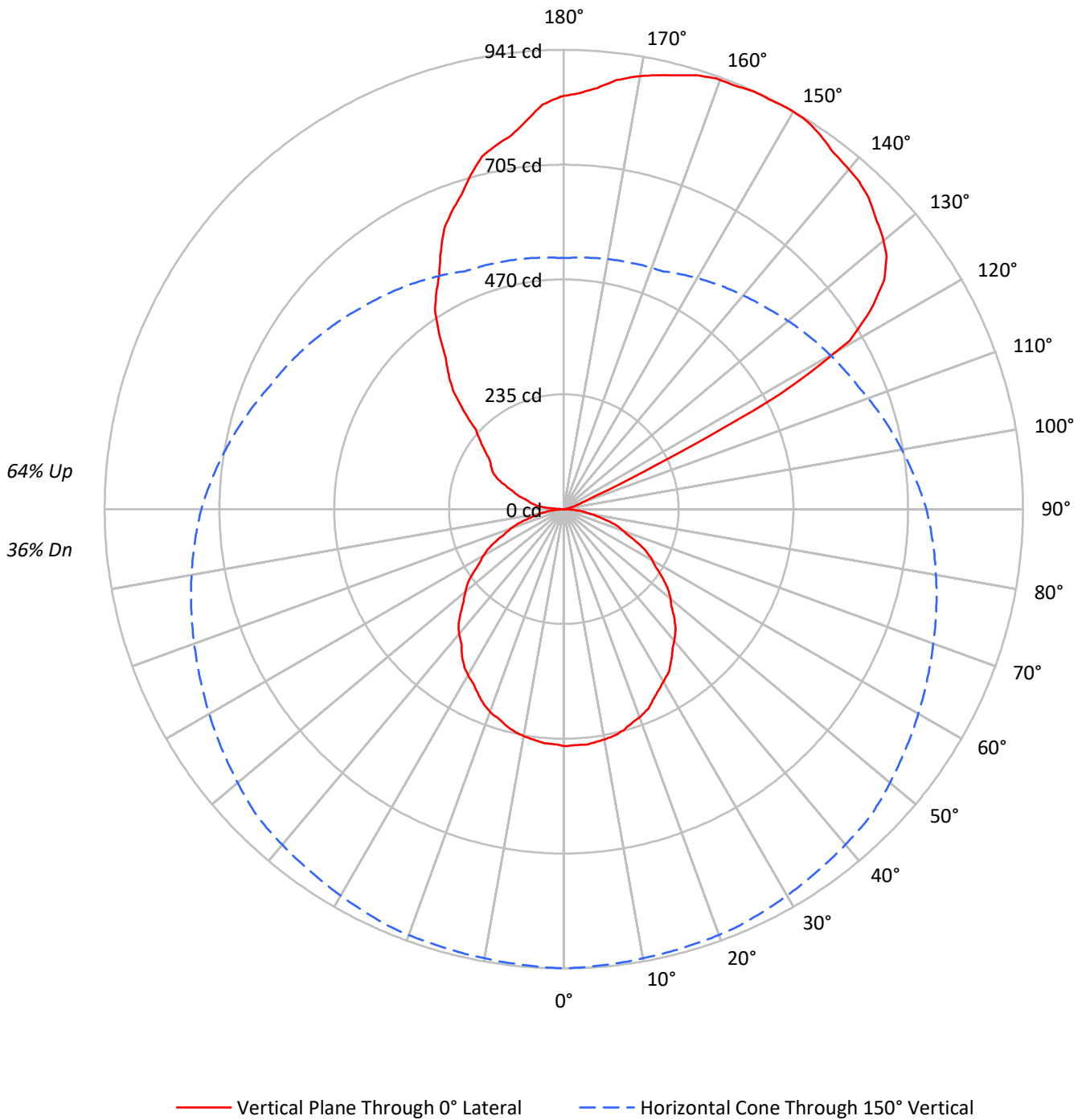
Lumens per Lamp: N/A  
Luminaire Lumens: 3710.2 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

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



TEST NUMBER: P522333  
CATALOG NUMBER: SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (5000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P522333

CATALOG NUMBER: SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (5000K)

**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°	7837	7837	7837
5°	7851	7919	7799
10°	7838	7907	7753
15°	7816	7870	7694
20°	7765	7820	7622
25°	7641	7735	7473
30°	7567	7646	7353
35°	7486	7567	7238
40°	7364	7453	7078
45°	7238	7334	6903
50°	7096	7201	6674
55°	6863	7037	6480
60°	6655	6859	6216
65°	6315	6674	5914
70°	5976	6373	5533
75°	5546	5876	4959
80°	4965	5151	4379
85°	3687	3872	2908



TEST NUMBER: P522333

CATALOG NUMBER: SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (5000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	1.2
10°-20°	131.3	3.5
20°-30°	197.4	5.3
30°-40°	236.1	6.4
40°-50°	242.7	6.5
50°-60°	216.8	5.8
60°-70°	164.7	4.4
70°-80°	94.1	2.5
80°-90°	24.9	0.7
90°-100°	22.2	0.6
100°-110°	96.1	2.6
110°-120°	274.1	7.4
120°-130°	416.8	11.2
130°-140°	450.8	12.1
140°-150°	430.7	11.6
150°-160°	354.2	9.5
160°-170°	231.5	6.2
170°-180°	80.1	2.2
0°-30°	374.7	10.1
0°-40°	610.8	16.5
0°-60°	1070.2	28.8
0°-90°	1353.9	36.5
90°-120°	392.4	10.6
90°-150°	1690.6	45.6
90°-180°	2356.0	63.5
0°-180°	3710.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	485	485	485	485	485	
5°	484	484	489	483	481	46
15°	468	469	471	464	460	132
25°	429	434	434	427	420	198
35°	380	385	384	376	367	237
45°	317	321	321	312	302	244
55°	244	248	250	238	230	218
65°	165	170	175	162	155	164
75°	89	92	94	85	80	94
85°	20	23	21	19	16	24
90°	0	0	0	0	0	1
95°	4	5	15	36	34	5
105°	22	57	111	76	82	26
115°	202	538	277	132	149	278
125°	806	709	444	218	187	708
135°	892	807	584	362	287	687
145°	929	870	695	515	439	582
155°	940	898	776	644	585	434
165°	918	898	832	746	711	261
175°	864	867	852	821	799	84
180°	844	844	844	844	844	



TEST NUMBER: P522333

CATALOG NUMBER: SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4
2.5°	483.8	484.6	485.4	485.5	489.6	484.7	484.6	483.7	482.1
5°	484.4	484.4	484.4	483.4	488.6	482.4	483.3	481.2	481.2
7.5°	481.4	480.6	480.8	479.7	484.8	478.5	478.5	477.3	477.1
10°	478.1	478.1	479.1	477.2	482.3	475.1	476.0	473.9	472.9
12.5°	474.8	473.9	475.0	473.0	478.1	470.9	471.0	468.1	467.8
15°	467.6	467.6	468.7	466.7	470.8	464.6	464.5	461.3	460.3
17.5°	458.6	458.4	460.7	457.7	461.8	454.6	454.7	451.9	450.3
20°	451.9	450.9	454.0	451.0	455.1	447.9	448.8	443.6	443.6
22.5°	443.6	442.6	446.5	442.6	446.7	439.6	440.4	434.4	433.5
25°	428.9	430.0	434.2	431.1	434.2	427.0	426.8	420.5	419.5
27.5°	416.8	416.0	421.4	417.1	420.1	413.0	413.0	405.5	404.5
30°	405.9	405.9	412.2	407.0	410.1	402.9	403.8	395.4	394.4
32.5°	395.9	395.9	401.3	397.8	400.1	392.9	392.1	384.5	383.5
35°	379.8	379.8	385.0	381.9	383.9	376.8	375.6	367.2	367.2
37.5°	362.0	361.2	366.2	364.1	366.2	359.2	356.7	349.4	348.4
40°	349.4	349.4	353.6	351.6	353.6	347.5	344.2	336.8	335.8
42.5°	336.0	336.0	341.1	339.0	341.1	334.1	330.8	323.5	322.4
45°	317.0	317.0	321.2	320.2	321.2	315.0	311.8	303.4	302.3
47.5°	296.7	295.9	299.8	300.1	301.7	295.0	290.6	282.7	281.6
50°	282.5	282.5	285.6	286.7	286.7	281.5	277.2	266.8	265.7
52.5°	265.7	266.5	269.7	270.8	271.6	264.8	260.5	252.5	251.5
55°	243.8	242.7	247.9	249.0	250.0	243.9	237.5	231.2	230.2
57.5°	221.2	221.0	225.3	226.6	227.4	222.3	215.9	208.8	207.6
60°	206.1	205.1	210.3	212.4	212.4	207.3	200.9	194.5	192.5
62.5°	188.5	190.8	194.4	196.5	198.1	192.2	185.0	179.5	177.4
65°	165.3	166.3	170.5	172.7	174.7	168.6	162.2	156.9	154.8
67.5°	141.7	143.5	146.7	148.8	150.9	144.9	138.5	134.1	132.2
70°	126.6	127.6	130.8	132.9	135.0	129.8	123.4	118.2	117.2
72.5°	111.5	112.5	115.7	117.0	118.2	113.1	107.5	103.9	102.1
75°	88.9	89.9	92.1	93.1	94.2	89.0	84.7	81.6	79.5
77.5°	67.6	67.6	69.7	70.5	70.5	67.4	63.4	60.4	58.8
80°	53.4	53.4	55.4	55.4	55.4	52.4	49.2	47.1	47.1
82.5°	39.1	39.9	42.1	42.0	41.2	39.0	36.6	34.5	34.5
85°	19.9	20.9	23.0	23.0	20.9	20.9	18.8	17.7	15.7
87.5°	5.0	5.8	7.5	8.3	6.7	6.7	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	12.4	13.8	12.0	12.0
95°	3.6	3.6	5.0	15.8	15.1	25.6	35.8	33.7	33.7
97.5°	7.3	8.0	11.5	46.6	35.1	34.1	48.5	53.9	54.9
100°	10.8	11.5	17.2	76.2	52.3	44.6	53.0	63.1	65.2
102.5°	14.8	16.0	27.5	119.8	73.5	52.4	60.5	69.5	72.1
105°	22.2	24.3	56.6	200.8	111.1	68.4	76.0	79.6	81.7
107.5°	33.0	41.5	152.5	282.2	157.7	90.3	98.4	97.8	99.6
110°	44.4	62.0	263.8	326.7	192.1	107.3	107.5	113.2	111.1



TEST NUMBER: P522333

CATALOG NUMBER: SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	73.7	123.2	393.4	369.5	226.5	127.7	116.1	128.8	129.5
115°	202.2	347.2	537.6	429.5	277.4	163.9	131.9	144.2	149.1
117.5°	501.2	604.1	611.5	482.8	328.2	204.3	150.0	155.4	161.9
120°	679.6	700.6	645.9	515.5	362.0	233.0	164.9	162.9	169.9
122.5°	749.5	742.0	674.0	546.0	395.3	263.5	183.2	172.0	176.8
125°	805.7	786.1	709.0	588.1	443.7	309.2	217.9	187.1	187.1
127.5°	839.3	816.4	741.1	625.5	487.5	355.3	259.6	211.6	205.0
130°	858.8	834.3	760.6	651.4	516.1	385.1	288.9	232.7	222.2
132.5°	873.7	851.4	778.9	671.7	544.2	414.3	318.1	259.0	241.7
135°	891.8	872.8	807.2	702.7	583.5	458.1	362.0	304.3	286.7
137.5°	903.4	888.7	832.6	728.2	619.9	501.5	406.3	348.3	332.5
140°	909.7	897.8	845.2	743.2	642.3	529.5	437.3	378.2	363.4
142.5°	916.0	906.3	854.3	760.0	664.1	557.4	467.7	408.5	392.7
145°	929.0	917.8	869.5	780.2	695.3	596.5	514.7	452.7	438.7
147.5°	938.2	924.8	882.0	801.8	724.9	631.9	557.9	498.0	484.2
150°	940.5	926.5	888.9	813.5	742.7	653.6	584.2	527.3	514.0
152.5°	938.8	928.1	894.1	823.3	757.6	674.7	608.3	555.4	543.2
155°	939.8	930.0	898.2	836.6	776.4	704.2	644.5	597.6	585.0
157.5°	935.5	929.0	901.1	846.8	793.7	730.5	677.6	638.1	625.4
160°	935.5	925.7	901.1	852.7	805.7	747.6	698.2	662.8	652.3
162.5°	929.2	920.5	900.5	856.9	817.2	763.5	717.7	684.7	677.0
165°	917.6	910.6	897.5	862.4	831.5	785.3	745.5	716.0	711.1
167.5°	908.5	898.9	891.8	862.2	841.3	800.9	769.0	744.6	741.8
170°	898.2	891.9	886.0	860.6	845.9	812.2	785.7	761.2	758.4
172.5°	885.0	881.5	878.6	859.5	848.8	821.8	800.0	777.8	772.8
175°	864.5	867.3	866.7	857.2	851.6	834.1	820.8	804.9	798.6
177.5°	851.9	850.8	853.6	851.9	851.3	840.7	837.0	826.2	829.5
180°	844.5	844.5	844.5	844.5	844.5	844.5	844.5	844.5	844.5

(END OF REPORT)