

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: P511753

Luminaire Tested: **SQW-F-050U-025D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511753  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-050U-025D-935-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

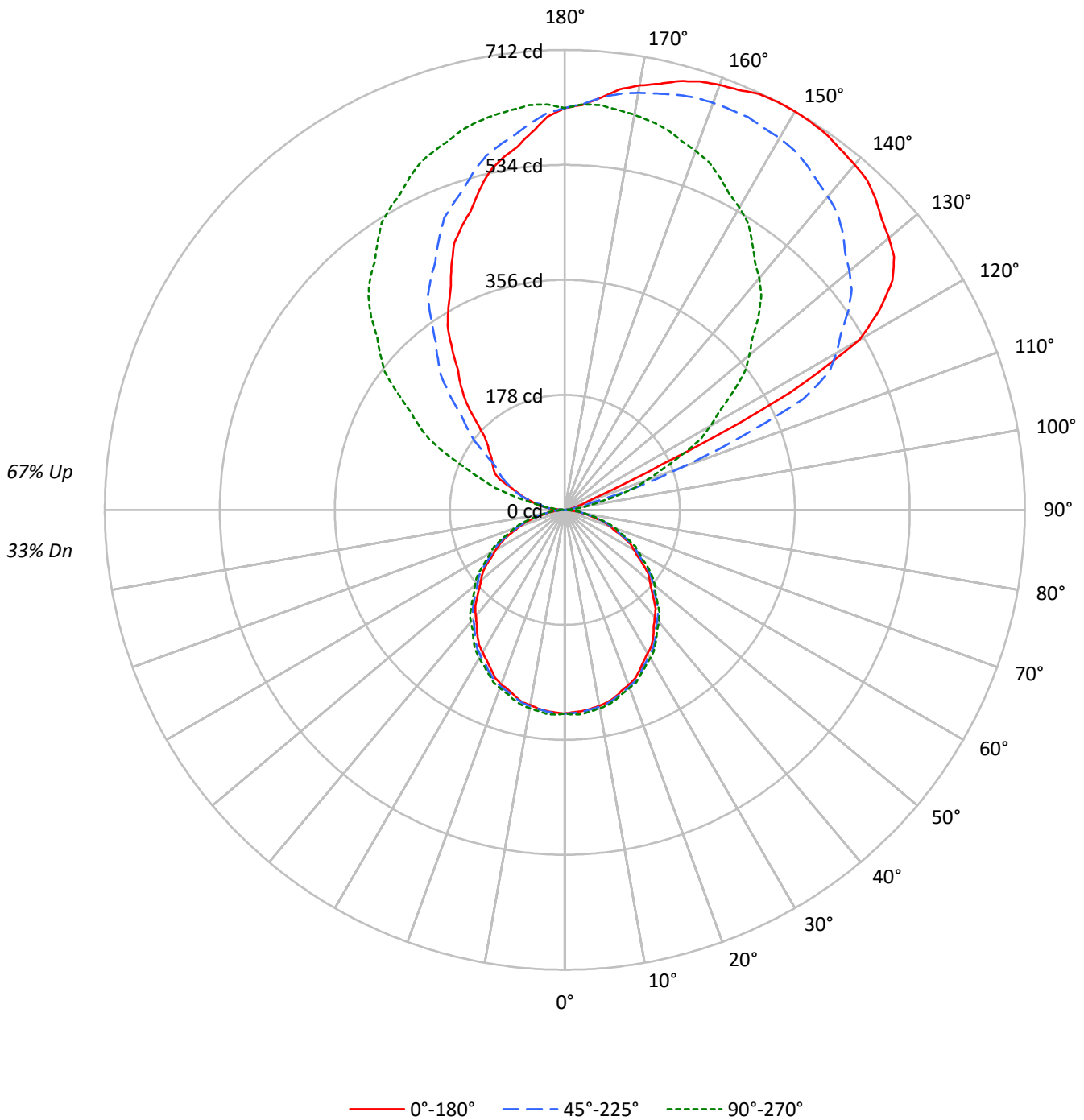
Lumens per Lamp: N/A  
Luminaire Lumens: 2588.1 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 23.2  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	41	41	41	33
1	94	90	86	83	85	81	78	75	65	62	60	50	48	47	36	35	34	28
2	85	78	72	67	77	71	66	61	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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

	0°	90°	180°
0°	10185	10185	10185
5°	10143	10279	10143
10°	10093	10230	10067
15°	10036	10180	9979
20°	9911	10086	9883
25°	9766	9976	9677
30°	9561	9874	9497
35°	9410	9709	9307
40°	9135	9565	9029
45°	8896	9280	8782
50°	8641	9108	8515
55°	8310	8878	8310
60°	7950	8609	7950
65°	7542	8245	7542
70°	7006	7799	6930
75°	6101	7049	6213
80°	5021	5802	5170
85°	2816	4076	3446



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.8	1.2
10°-20°	84.9	3.3
20°-30°	127.1	4.9
30°-40°	150.9	5.8
40°-50°	153.3	5.9
50°-60°	136.6	5.3
60°-70°	102.0	3.9
70°-80°	56.1	2.2
80°-90°	13.5	0.5
90°-100°	15.3	0.6
100°-110°	69.8	2.7
110°-120°	204.7	7.9
120°-130°	308.2	11.9
130°-140°	331.0	12.8
140°-150°	315.8	12.2
150°-160°	259.9	10.0
160°-170°	170.2	6.6
170°-180°	59.0	2.3
0°-30°	241.8	9.3
0°-40°	392.6	15.2
0°-60°	682.5	26.4
0°-90°	854.1	33.0
90°-120°	289.8	11.2
90°-150°	1244.8	48.1
90°-180°	1734.0	67.0
0°-180°	2588.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	315	315	315	315	315	
5°	313	314	317	314	313	30
15°	300	302	304	300	298	84
25°	274	278	280	277	272	126
35°	239	244	246	242	236	149
45°	195	201	203	199	192	150
55°	148	154	158	153	148	132
65°	99	103	108	103	99	98
75°	49	52	56	52	50	53
85°	8	10	11	11	9	11
90°	1	1	1	2	4	1
95°	4	5	11	19	18	5
105°	19	45	80	53	56	22
115°	164	407	199	100	110	220
125°	619	535	317	149	138	544
135°	680	608	424	252	194	525
145°	708	652	506	361	304	444
155°	710	671	568	461	415	328
165°	687	665	610	543	512	195
175°	640	640	629	601	586	62
180°	622	622	622	622	622	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4
2.5°	313.4	314.7	314.7	314.8	317.4	314.8	314.7	314.7	314.1
5°	312.9	312.9	313.7	313.8	317.1	313.8	313.7	312.9	312.9
7.5°	310.5	310.7	311.5	311.4	314.1	310.6	310.7	310.5	310.4
10°	307.8	308.6	309.5	308.7	312.0	307.9	308.7	307.8	307.0
12.5°	305.1	306.0	306.8	306.0	309.3	305.9	306.0	305.1	305.0
15°	300.2	301.1	301.9	301.2	304.5	300.3	300.2	299.4	298.5
17.5°	293.2	294.6	295.8	295.1	298.2	294.3	295.0	293.0	291.6
20°	288.4	289.3	291.8	291.0	293.5	290.2	291.0	287.6	287.6
22.5°	283.0	283.9	286.4	285.6	288.8	284.8	285.6	282.2	281.5
25°	274.1	274.9	277.5	276.7	280.0	275.9	276.6	272.4	271.6
27.5°	263.8	264.8	268.9	268.1	271.6	266.6	267.3	263.1	262.1
30°	256.4	258.0	261.4	260.7	264.8	259.9	260.6	256.3	254.7
32.5°	249.6	251.3	254.0	254.6	257.4	253.1	253.2	248.9	247.3
35°	238.7	240.3	243.7	243.8	246.3	242.1	242.0	237.8	236.1
37.5°	226.2	227.7	231.4	232.5	234.3	230.5	229.6	225.3	223.7
40°	216.7	217.6	222.6	224.4	226.9	221.1	220.1	215.9	214.2
42.5°	208.0	209.5	213.9	214.9	216.7	212.9	211.3	207.1	205.4
45°	194.8	196.5	200.7	202.4	203.2	200.0	199.0	194.8	192.3
47.5°	181.5	183.1	187.4	189.3	190.1	187.6	185.0	181.4	179.0
50°	172.0	173.7	177.9	180.5	181.3	178.8	176.3	172.0	169.5
52.5°	163.3	164.3	168.5	171.7	171.9	170.1	166.8	162.6	160.7
55°	147.6	150.1	154.3	157.7	157.7	156.1	152.6	148.4	147.6
57.5°	133.9	134.9	139.2	142.5	142.7	141.7	138.3	134.1	133.3
60°	123.1	124.8	129.0	132.4	133.3	131.6	128.2	124.0	123.1
62.5°	114.4	114.7	118.9	122.3	123.1	121.5	118.1	114.5	113.0
65°	98.7	99.5	102.9	107.1	107.9	106.3	102.9	99.5	98.7
67.5°	83.7	84.5	87.7	91.8	92.8	91.1	86.9	84.3	83.5
70°	74.2	75.0	77.6	81.0	82.6	81.0	76.7	74.2	73.4
72.5°	64.1	64.9	67.5	70.9	71.9	70.2	66.6	64.8	63.9
75°	48.9	50.6	52.3	55.7	56.5	55.7	52.3	50.6	49.8
77.5°	35.8	36.6	38.3	40.7	41.3	40.7	39.1	36.6	36.6
80°	27.0	27.8	29.5	31.2	31.2	31.2	30.4	27.8	27.8
82.5°	18.9	19.7	20.7	23.1	22.4	23.1	22.3	20.4	19.7
85°	7.6	8.4	10.1	11.8	11.0	11.8	11.0	9.3	9.3
87.5°	0.8	1.5	1.5	3.5	3.5	4.2	3.0	2.5	2.7
90°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6	3.5
92.5°	2.3	2.3	2.3	3.0	3.0	7.0	5.2	4.7	5.6
95°	4.3	4.3	5.2	13.0	11.3	17.2	19.1	18.2	18.2
97.5°	7.6	7.6	9.9	34.5	25.5	23.5	32.1	33.2	32.8
100°	10.4	10.4	14.8	55.2	37.4	30.6	35.6	40.9	42.6
102.5°	13.2	13.9	22.4	85.4	52.6	39.0	40.5	45.7	47.4
105°	19.1	20.8	45.2	143.6	79.9	51.9	53.0	53.9	56.5
107.5°	28.3	34.6	114.5	205.0	112.7	68.1	70.4	67.6	67.8
110°	37.4	51.8	193.7	244.2	136.4	79.5	80.8	77.3	78.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	61.0	102.6	294.5	275.4	161.4	92.9	88.4	91.9	90.0
115°	164.2	267.8	407.4	320.4	198.9	115.7	99.9	107.8	110.3
117.5°	392.3	462.3	460.5	358.4	236.3	143.2	110.5	117.9	122.1
120°	526.4	536.6	485.6	382.0	260.6	162.1	118.1	123.4	127.7
122.5°	578.5	566.3	506.4	403.6	283.5	182.3	128.6	127.6	132.6
125°	619.3	597.2	535.1	433.4	317.0	216.0	149.4	135.6	138.1
127.5°	642.4	618.0	559.7	461.3	351.1	249.7	177.0	148.7	147.1
130°	654.9	631.2	575.0	478.8	372.6	273.3	197.2	159.7	155.5
132.5°	665.4	643.6	588.9	495.6	393.5	296.2	218.7	176.3	168.7
135°	680.1	659.7	608.0	518.2	423.9	328.8	251.9	204.7	193.7
137.5°	692.6	671.9	624.2	539.6	450.1	360.6	284.2	239.4	226.5
140°	697.5	678.8	633.2	552.3	468.2	380.7	305.8	260.4	250.2
142.5°	702.4	684.4	641.6	564.8	483.5	400.1	328.0	282.6	271.7
145°	707.9	690.1	652.3	581.1	505.5	428.2	361.3	315.1	304.0
147.5°	710.9	694.9	660.3	594.9	527.1	454.2	394.2	347.6	337.5
150°	712.3	697.0	664.5	604.0	540.3	471.5	414.3	369.8	360.5
152.5°	712.3	696.3	666.6	611.0	551.4	487.4	433.8	391.4	382.7
155°	710.5	695.2	670.6	619.9	568.1	510.3	461.2	424.5	415.2
157.5°	703.6	694.4	670.6	628.0	582.5	531.7	488.0	455.3	447.0
160°	700.1	691.6	670.6	632.3	591.5	544.8	504.7	474.1	466.4
162.5°	695.2	686.7	669.2	635.2	599.2	556.5	520.7	490.8	485.2
165°	687.1	678.6	665.4	637.8	609.8	573.3	542.9	517.6	511.6
167.5°	675.4	670.7	660.0	638.6	616.2	588.2	561.6	541.4	536.6
170°	667.1	663.7	655.8	638.0	621.1	596.4	574.2	556.7	553.3
172.5°	656.7	654.6	649.6	637.4	624.5	604.7	586.0	569.2	566.5
175°	640.2	641.9	640.2	634.8	628.9	615.3	601.1	588.9	586.3
177.5°	627.5	627.5	628.9	628.9	628.2	621.4	615.0	608.1	609.4
180°	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9

(END OF REPORT)