

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: P511783

Luminaire Tested: **SQW-F-075U-025D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511783  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-075U-025D-935-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

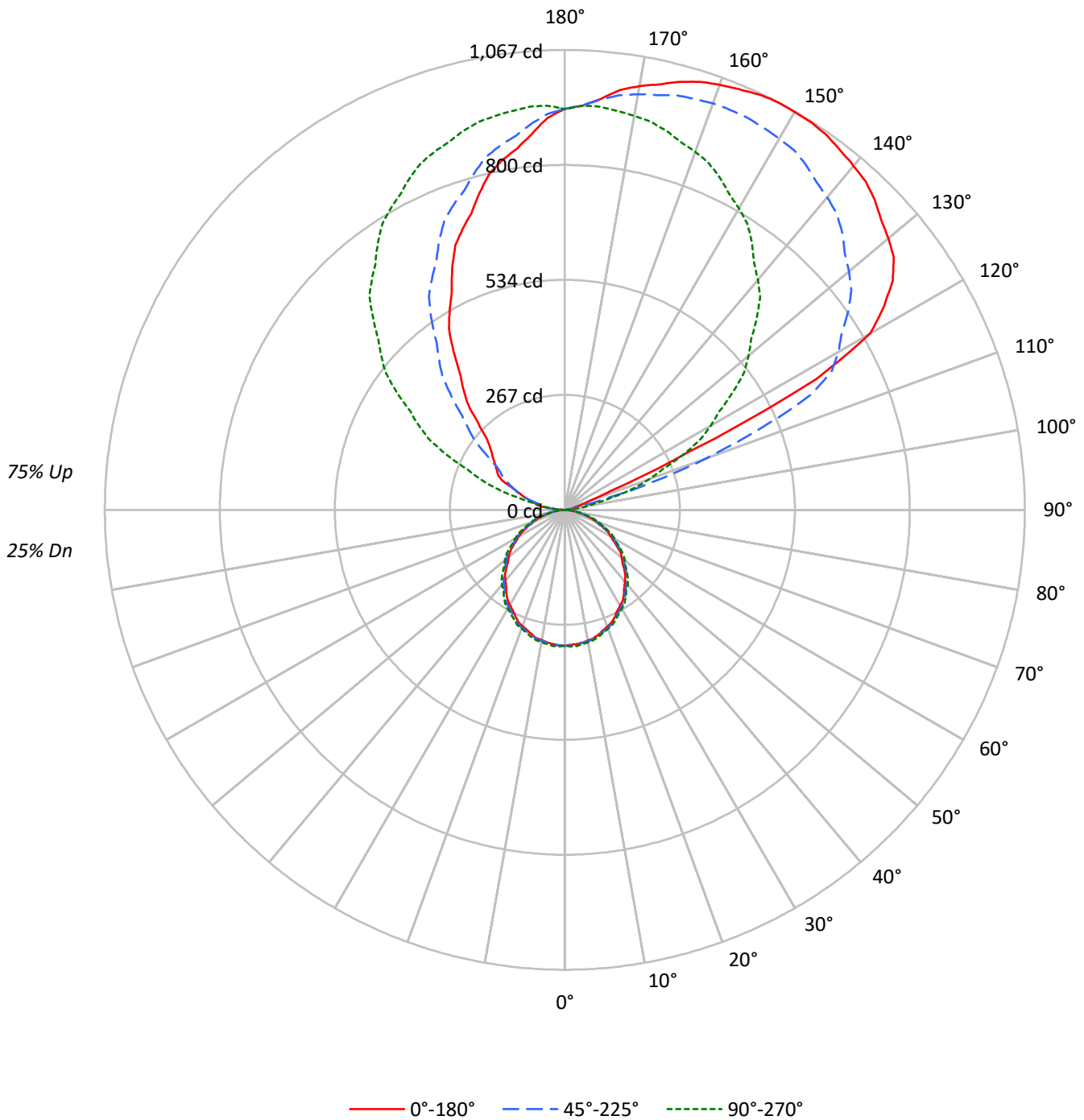
Lumens per Lamp: N/A  
Luminaire Lumens: 3460.1 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 29.5  
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



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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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25				
1	92	88	84	81	82	78	75	72	61	58	57	44	43	42	29	28	28	21				
2	84	77	71	66	74	68	64	59	53	50	47	39	37	35	25	24	23	17				
3	76	67	60	55	68	60	54	49	47	43	39	34	31	29	23	21	20	15				
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13				
5	64	53	45	39	57	47	41	36	37	32	28	27	24	21	18	16	15	11				
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10				
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8				
8	50	38	31	26	44	34	28	23	27	22	19	20	17	15	14	12	10	8				
9	46	35	28	23	41	31	25	21	25	20	17	18	15	13	12	11	9	7				
10	43	32	25	20	39	29	23	18	23	18	15	17	14	12	12	10	8	6				

**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	0.9
10°-20°	84.9	2.5
20°-30°	127.1	3.7
30°-40°	150.9	4.4
40°-50°	153.3	4.4
50°-60°	136.6	3.9
60°-70°	102.0	2.9
70°-80°	56.1	1.6
80°-90°	13.8	0.4
90°-100°	23.4	0.7
100°-110°	108.7	3.1
110°-120°	317.0	9.2
120°-130°	460.7	13.3
130°-140°	492.9	14.2
140°-150°	471.6	13.6
150°-160°	388.8	11.2
160°-170°	254.3	7.3
170°-180°	88.2	2.5
0°-30°	241.8	7.0
0°-40°	392.6	11.3
0°-60°	682.5	19.7
0°-90°	854.4	24.7
90°-120°	449.2	13.0
90°-150°	1874.4	54.2
90°-180°	2606.0	75.3
0°-180°	3460.1	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°	2	2	1	4	7	1
95°	7	9	18	29	26	8
105°	29	84	121	77	83	35
115°	319	628	302	144	159	374
125°	928	802	476	220	201	821
135°	1016	910	629	371	284	784
145°	1060	976	756	539	450	664
155°	1064	1003	850	689	618	491
165°	1028	996	910	809	762	292
175°	957	955	939	898	876	93
180°	930	930	930	930	930	



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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°	1.0	1.7	1.7	3.5	3.5	4.4	3.4	3.3	3.4
90°	1.7	1.7	1.7	0.9	0.9	1.7	3.5	6.1	7.0
92.5°	3.1	3.8	3.8	4.4	5.1	10.0	7.0	8.2	8.4
95°	7.0	7.0	8.7	20.9	17.5	26.0	28.8	27.1	26.2
97.5°	11.5	12.4	17.0	54.9	39.3	34.9	47.5	50.8	47.7
100°	15.7	16.6	25.3	86.7	56.8	44.8	52.4	62.1	63.8
102.5°	20.6	22.2	39.3	133.7	79.9	57.0	60.1	69.1	71.5
105°	28.8	33.1	83.9	221.5	120.6	75.3	76.9	79.6	83.0
107.5°	44.8	60.1	213.1	314.4	170.8	98.8	102.3	99.8	100.0
110°	62.9	95.4	348.8	367.8	207.2	117.4	116.3	114.4	111.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	114.0	199.8	485.8	415.2	245.6	137.4	127.4	135.4	130.1
115°	319.0	484.0	627.6	480.2	301.6	171.6	144.2	155.7	159.1
117.5°	658.0	732.7	698.2	537.9	355.0	211.6	160.3	168.5	174.1
120°	818.1	815.6	732.5	573.6	390.7	241.1	172.2	177.5	181.8
122.5°	876.9	852.4	761.1	605.8	425.0	272.7	188.3	185.2	190.2
125°	928.3	894.9	802.4	649.8	475.5	320.8	220.3	197.6	201.0
127.5°	961.6	925.1	837.7	690.2	524.4	371.8	262.6	217.2	213.1
130°	979.8	943.9	860.1	714.9	555.9	404.6	291.9	236.6	226.4
132.5°	995.2	961.4	881.1	738.8	586.7	438.1	323.4	261.0	246.0
135°	1016.5	984.1	909.9	773.8	629.3	486.6	370.6	305.4	284.1
137.5°	1032.8	1003.2	932.6	805.1	670.8	534.4	420.1	354.5	332.7
140°	1041.9	1013.7	946.6	824.8	696.6	565.0	453.6	386.7	366.2
142.5°	1050.3	1022.8	958.5	842.5	721.1	594.3	487.9	419.6	399.1
145°	1060.2	1033.7	976.3	868.0	756.1	638.1	539.3	469.8	450.1
147.5°	1065.0	1040.5	989.1	890.8	787.4	678.6	587.0	520.3	500.5
150°	1066.4	1043.3	994.7	904.2	807.6	705.1	617.1	554.6	534.1
152.5°	1067.1	1043.3	998.9	915.6	825.8	728.7	646.5	587.5	568.3
155°	1063.7	1042.4	1003.4	929.1	850.5	762.4	688.8	635.1	618.0
157.5°	1056.0	1040.3	1004.1	940.5	871.1	794.0	729.0	679.8	663.8
160°	1049.8	1036.1	1003.4	946.9	883.7	812.7	753.4	708.5	693.1
162.5°	1041.4	1027.7	999.9	949.9	894.9	830.1	776.5	733.8	721.1
165°	1027.9	1015.1	995.6	954.3	909.9	856.1	809.4	772.4	762.2
167.5°	1010.8	1002.7	985.9	956.1	922.0	878.4	839.5	809.4	800.6
170°	998.2	992.2	979.0	955.6	928.3	891.5	858.3	831.1	825.1
172.5°	982.1	978.9	969.9	953.0	933.2	903.2	875.1	851.4	845.4
175°	957.1	958.8	955.4	949.0	938.7	918.2	898.5	881.8	875.8
177.5°	938.4	938.4	939.1	939.8	938.4	929.5	919.5	909.7	910.4
180°	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0

(END OF REPORT)