

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: P511796

Luminaire Tested: **SQW-F-075U-075D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511796  
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-075D-940-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

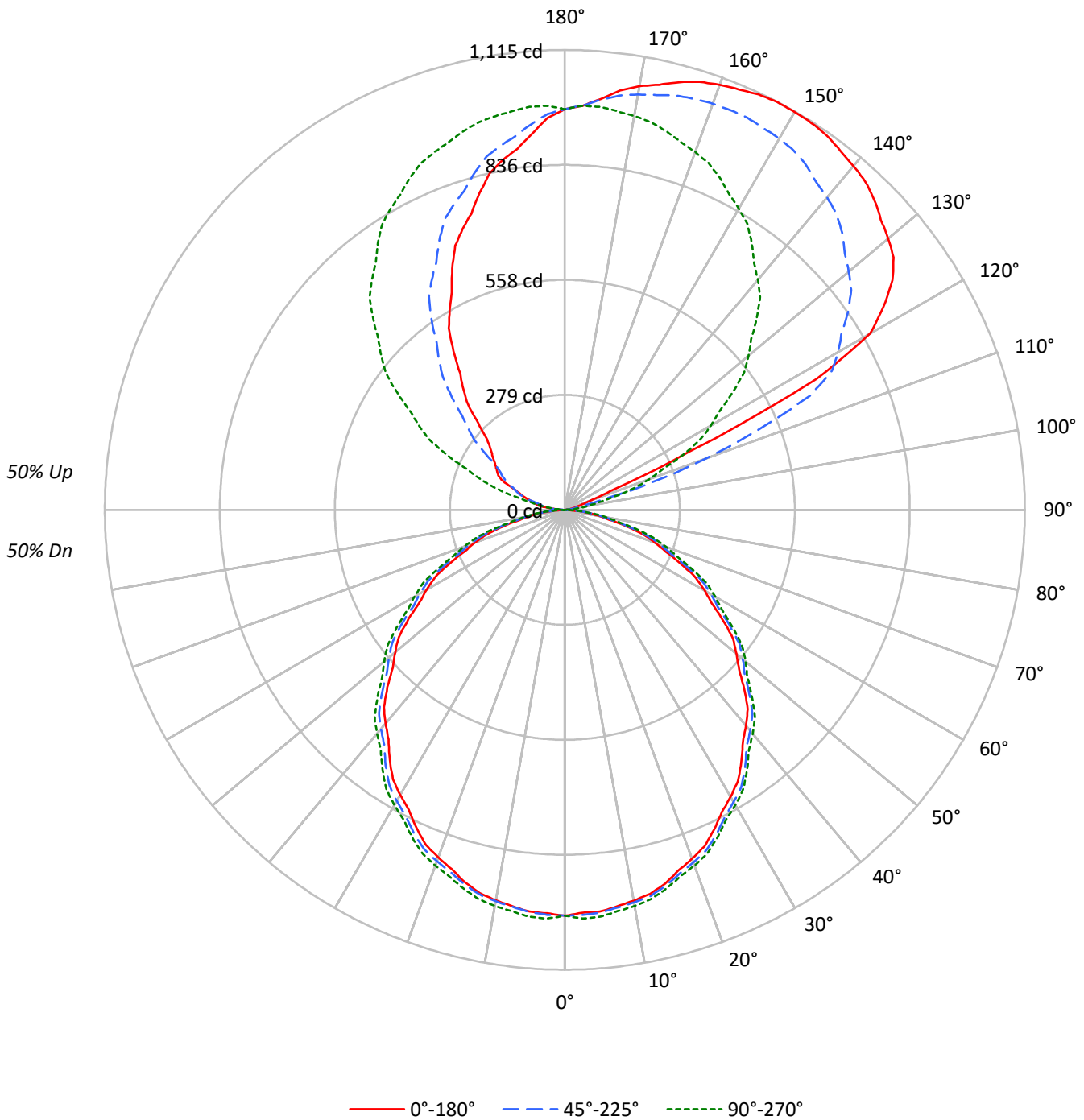
Lumens per Lamp: N/A  
Luminaire Lumens: 5403.5 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 47.8  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	71	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	90°	180°
0°	31775	31775	31775
5°	31696	32098	31696
10°	31544	31977	31514
15°	31365	31776	31248
20°	30938	31543	30818
25°	30478	31201	30321
30°	29957	30811	29759
35°	29416	30350	29172
40°	28779	29858	28483
45°	28081	29328	27757
50°	27264	28721	26952
55°	26387	27969	26038
60°	25259	27138	24975
65°	23763	26048	23557
70°	21961	24538	21791
75°	19127	21984	19127
80°	15398	18354	15900
85°	8818	12412	10448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.0	1.7
10°-20°	265.1	4.9
20°-30°	397.2	7.4
30°-40°	472.3	8.7
40°-50°	483.5	8.9
50°-60°	431.1	8.0
60°-70°	322.1	6.0
70°-80°	175.6	3.2
80°-90°	41.8	0.8
90°-100°	24.5	0.5
100°-110°	113.6	2.1
110°-120°	331.2	6.1
120°-130°	481.2	8.9
130°-140°	514.9	9.5
140°-150°	492.6	9.1
150°-160°	406.2	7.5
160°-170°	265.7	4.9
170°-180°	92.1	1.7
0°-30°	755.3	14.0
0°-40°	1227.6	22.7
0°-60°	2142.1	39.6
0°-90°	2681.6	49.6
90°-120°	469.2	8.7
90°-150°	1958.0	36.2
90°-180°	2722.0	50.4
0°-180°	5403.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	984	984	984	984	984	
5°	978	980	990	979	978	93
15°	938	944	950	940	935	264
25°	855	869	876	865	851	394
35°	746	761	770	757	740	466
45°	615	633	642	626	608	474
55°	469	487	497	482	462	418
65°	311	327	341	325	308	308
75°	153	165	176	166	153	164
85°	24	31	34	34	28	34
90°	2	2	1	4	7	1
95°	7	9	18	30	27	8
105°	30	88	126	80	87	37
115°	333	656	315	151	166	391
125°	970	838	497	230	210	857
135°	1062	950	657	387	297	819
145°	1108	1020	790	563	470	694
155°	1111	1048	888	720	646	513
165°	1074	1040	950	846	796	305
175°	1000	998	981	939	915	97
180°	971	971	971	971	971	



TEST NUMBER: P511796

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	984.0	984.0	984.0	984.0	984.0	984.0	984.0	984.0	984.0
2.5°	977.7	982.5	983.3	982.1	991.8	982.8	982.6	982.5	979.1
5°	977.8	977.8	980.5	979.0	990.2	979.0	978.7	977.0	977.8
7.5°	969.7	970.8	972.7	971.0	981.5	970.2	970.8	968.2	969.6
10°	962.0	963.7	966.4	964.0	975.2	963.1	963.7	961.1	961.1
12.5°	953.5	955.3	958.6	955.5	966.7	955.4	955.3	951.9	951.9
15°	938.2	939.9	943.5	940.2	950.5	938.5	940.0	935.5	934.7
17.5°	916.5	920.1	924.8	921.5	932.0	919.8	920.6	914.6	913.0
20°	900.3	904.6	910.0	906.7	917.9	905.0	906.5	897.7	896.8
22.5°	883.4	887.0	894.5	891.2	901.7	889.5	891.0	879.3	879.2
25°	855.4	858.8	868.6	866.2	875.7	863.6	865.1	851.8	851.0
27.5°	825.3	829.7	839.5	837.3	846.8	833.8	835.3	821.0	819.3
30°	803.4	808.6	818.4	816.8	826.3	813.4	814.9	799.9	798.1
32.5°	780.2	786.7	796.5	795.7	804.5	792.2	791.6	777.3	774.9
35°	746.2	751.3	761.1	762.2	769.9	758.7	756.7	742.6	740.0
37.5°	708.8	714.1	724.0	726.2	732.9	721.9	718.7	704.5	701.8
40°	682.7	688.8	698.6	702.2	708.3	697.9	693.3	679.1	675.7
42.5°	655.9	662.7	673.2	676.9	682.2	671.9	666.5	653.0	648.9
45°	614.9	621.8	633.4	637.9	642.2	632.7	626.3	612.2	607.8
47.5°	572.3	579.1	591.1	596.6	599.9	592.2	584.8	570.6	565.4
50°	542.7	549.5	562.9	569.1	571.7	564.0	555.9	541.7	536.5
52.5°	513.8	520.0	533.3	540.2	542.1	535.8	527.0	513.5	507.6
55°	468.7	474.7	487.2	495.1	496.8	491.7	481.9	467.7	462.5
57.5°	422.1	428.2	440.5	449.3	451.2	446.0	435.4	422.9	417.0
60°	391.1	397.2	408.8	417.6	420.2	415.0	404.4	391.9	386.7
62.5°	359.4	364.1	376.3	385.2	389.2	384.7	373.3	359.5	355.0
65°	311.0	316.1	326.8	337.5	340.9	337.5	325.1	312.6	308.3
67.5°	264.3	267.7	277.5	288.0	292.3	288.5	277.3	264.6	261.8
70°	232.6	236.0	245.8	255.6	259.9	254.7	244.9	234.3	230.8
72.5°	199.4	202.9	212.0	221.7	225.3	220.2	211.8	202.5	198.4
75°	153.3	156.7	164.7	172.7	176.2	172.7	165.6	157.6	153.3
77.5°	110.3	113.6	120.5	127.4	129.0	126.7	121.7	114.8	111.5
80°	82.8	85.4	91.6	97.8	98.7	97.8	94.3	88.0	85.5
82.5°	58.1	60.0	66.2	71.0	70.5	72.4	68.9	63.4	61.5
85°	23.8	25.5	30.8	36.1	33.5	37.8	34.4	30.8	28.2
87.5°	3.2	3.2	6.0	10.0	9.3	12.3	9.9	8.3	7.1
90°	1.8	1.8	1.8	0.9	0.9	1.8	3.7	6.4	7.3
92.5°	3.3	4.0	4.0	4.6	5.3	10.5	7.3	8.6	8.8
95°	7.3	7.3	9.1	21.8	18.3	27.2	30.1	28.3	27.4
97.5°	12.1	12.9	17.7	57.3	41.1	36.4	49.7	53.1	49.9
100°	16.4	17.3	26.5	90.6	59.3	46.8	54.8	64.9	66.7
102.5°	21.5	23.2	41.1	139.7	83.4	59.5	62.8	72.2	74.7
105°	30.1	34.6	87.6	231.3	126.0	78.7	80.3	83.2	86.7
107.5°	46.7	62.8	222.6	328.4	178.4	103.2	106.8	104.3	104.4
110°	65.7	99.7	364.3	384.2	216.4	122.6	121.4	119.5	116.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	119.1	208.7	507.5	433.7	256.6	143.5	133.1	141.4	135.9
115°	333.3	505.5	655.5	501.6	315.0	179.3	150.6	162.6	166.2
117.5°	687.3	765.3	729.3	561.9	370.9	221.1	167.4	176.0	181.9
120°	854.6	851.9	765.1	599.2	408.1	251.9	179.9	185.4	189.9
122.5°	915.9	890.4	795.1	632.8	443.9	284.8	196.7	193.5	198.7
125°	969.6	934.8	838.1	678.8	496.7	335.1	230.1	206.4	210.0
127.5°	1004.5	966.3	875.0	721.0	547.8	388.4	274.3	226.9	222.6
130°	1023.5	986.0	898.4	746.7	580.7	422.7	304.9	247.2	236.5
132.5°	1039.6	1004.2	920.3	771.7	612.8	457.7	337.8	272.6	256.9
135°	1061.8	1027.9	950.4	808.2	657.4	508.3	387.1	319.0	296.7
137.5°	1078.8	1047.9	974.2	841.0	700.6	558.2	438.8	370.3	347.5
140°	1088.3	1058.9	988.8	861.6	727.7	590.2	473.9	404.0	382.6
142.5°	1097.1	1068.3	1001.2	880.0	753.2	620.8	509.6	438.3	416.9
145°	1107.5	1079.8	1019.8	906.7	789.8	666.6	563.3	490.7	470.2
147.5°	1112.4	1086.9	1033.2	930.5	822.4	708.9	613.2	543.5	522.8
150°	1113.9	1089.8	1039.0	944.5	843.6	736.5	644.6	579.3	557.9
152.5°	1114.6	1089.8	1043.4	956.4	862.6	761.2	675.3	613.6	593.6
155°	1111.1	1088.8	1048.1	970.5	888.4	796.4	719.5	663.4	645.5
157.5°	1103.1	1086.7	1048.9	982.4	909.9	829.4	761.5	710.1	693.3
160°	1096.5	1082.2	1048.1	989.1	923.1	849.0	787.0	740.1	724.0
162.5°	1087.8	1073.5	1044.5	992.2	934.7	867.1	811.1	766.5	753.2
165°	1073.7	1060.3	1039.9	996.9	950.4	894.2	845.5	806.9	796.2
167.5°	1055.8	1047.4	1029.9	998.8	963.0	917.5	876.9	845.4	836.3
170°	1042.7	1036.4	1022.6	998.2	969.6	931.2	896.6	868.1	861.9
172.5°	1025.9	1022.5	1013.1	995.4	974.7	943.5	914.1	889.3	883.1
175°	999.8	1001.5	997.9	991.3	980.6	959.2	938.6	921.1	914.8
177.5°	980.2	980.2	980.9	981.6	980.2	970.9	960.5	950.3	951.0
180°	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4

(END OF REPORT)