

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: P511782

Luminaire Tested: **SQW-F-075U-025D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511782  
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-930-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

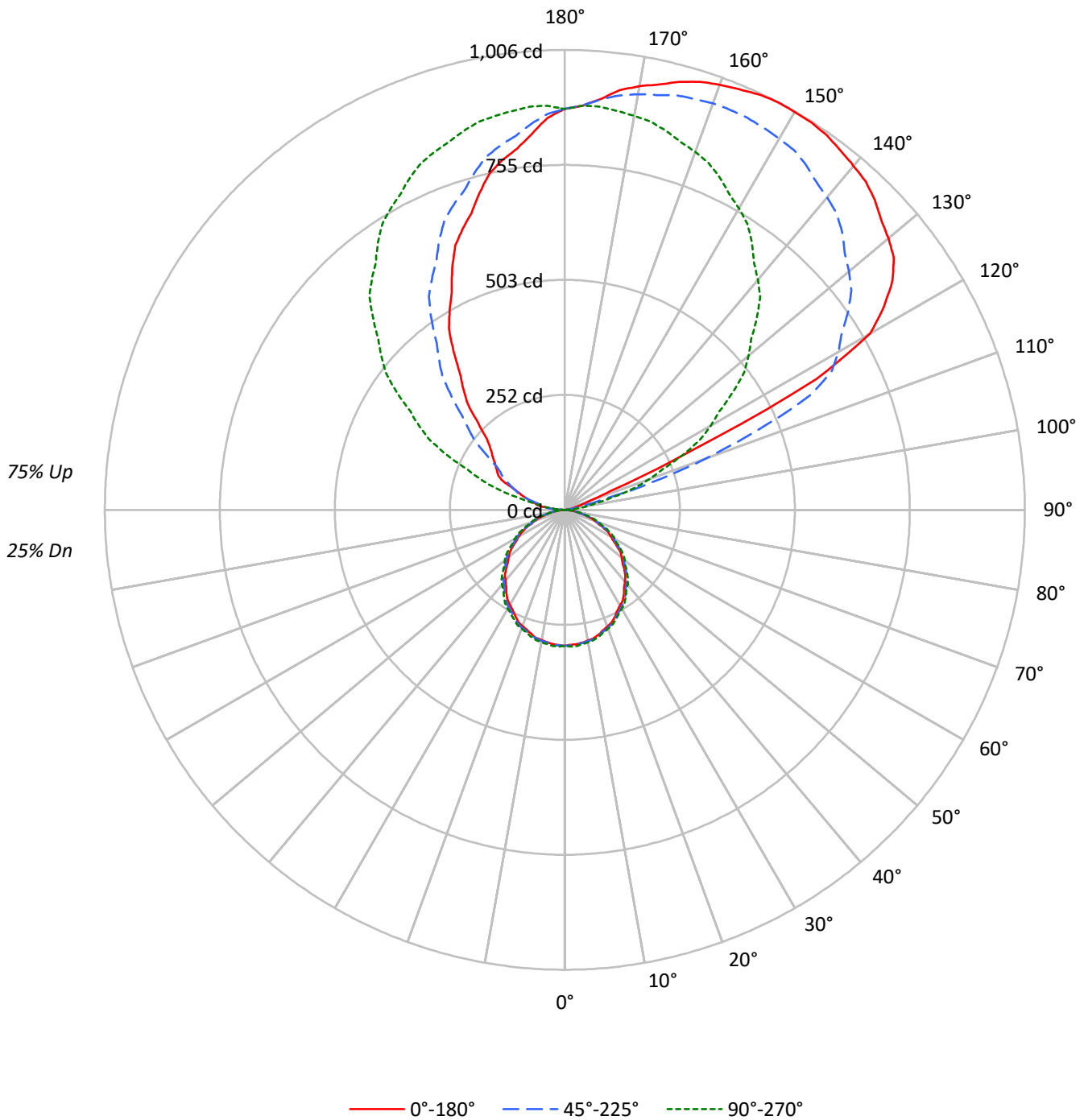
Lumens per Lamp: N/A  
Luminaire Lumens: 3262.1 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 29.4  
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	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°	9604	9604	9604
5°	9562	9692	9562
10°	9516	9647	9489
15°	9464	9595	9411
20°	9344	9509	9316
25°	9207	9406	9121
30°	9012	9311	8953
35°	8870	9154	8775
40°	8612	9017	8515
45°	8389	8750	8280
50°	8148	8586	8028
55°	7831	8372	7831
60°	7498	8112	7498
65°	7106	7778	7106
70°	6609	7355	6534
75°	5752	6650	5852
80°	4723	5467	4872
85°	2668	3816	3223



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.1	0.9
10°-20°	80.0	2.5
20°-30°	119.8	3.7
30°-40°	142.2	4.4
40°-50°	144.5	4.4
50°-60°	128.8	3.9
60°-70°	96.1	2.9
70°-80°	52.9	1.6
80°-90°	13.0	0.4
90°-100°	22.1	0.7
100°-110°	102.5	3.1
110°-120°	298.9	9.2
120°-130°	434.3	13.3
130°-140°	464.7	14.2
140°-150°	444.6	13.6
150°-160°	366.6	11.2
160°-170°	239.8	7.3
170°-180°	83.1	2.5
0°-30°	227.9	7.0
0°-40°	370.2	11.3
0°-60°	643.5	19.7
0°-90°	805.4	24.7
90°-120°	423.5	13.0
90°-150°	1767.2	54.2
90°-180°	2457.0	75.3
0°-180°	3262.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	297	297	297	297	297	
5°	295	296	299	296	295	28
15°	283	285	287	283	282	80
25°	258	262	264	261	256	119
35°	225	230	232	228	223	140
45°	184	189	192	188	181	142
55°	139	146	149	144	139	125
65°	93	97	102	97	93	92
75°	46	49	53	49	47	50
85°	7	10	10	10	9	10
90°	2	2	1	3	7	1
95°	7	8	16	27	25	7
105°	27	79	114	72	78	33
115°	301	592	284	136	150	353
125°	875	756	448	208	190	774
135°	958	858	593	349	268	740
145°	1000	920	713	508	424	626
155°	1003	946	802	649	583	463
165°	969	939	858	763	719	275
175°	902	901	885	847	826	87
180°	877	877	877	877	877	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4
2.5°	295.5	296.7	296.7	296.8	299.3	296.8	296.7	296.7	296.1
5°	295.0	295.0	295.8	295.8	299.0	295.8	295.8	295.0	295.0
7.5°	292.8	292.9	293.7	293.6	296.1	292.8	292.9	292.8	292.6
10°	290.2	291.0	291.8	291.1	294.2	290.3	291.0	290.2	289.4
12.5°	287.7	288.4	289.3	288.5	291.6	288.4	288.5	287.7	287.5
15°	283.1	283.8	284.6	283.9	287.0	283.1	283.1	282.2	281.5
17.5°	276.4	277.8	278.9	278.2	281.1	277.4	278.1	276.2	274.9
20°	271.9	272.7	275.1	274.4	276.7	273.6	274.3	271.1	271.1
22.5°	266.8	267.6	270.0	269.3	272.2	268.5	269.2	266.0	265.4
25°	258.4	259.2	261.6	260.9	264.0	260.1	260.8	256.8	256.0
27.5°	248.7	249.6	253.5	252.8	256.0	251.4	252.0	248.0	247.1
30°	241.7	243.3	246.5	245.8	249.7	245.0	245.7	241.7	240.1
32.5°	235.3	236.9	239.5	240.0	242.7	238.6	238.7	234.7	233.1
35°	225.0	226.6	229.8	229.8	232.2	228.3	228.2	224.2	222.6
37.5°	213.2	214.6	218.2	219.2	220.9	217.3	216.4	212.4	210.9
40°	204.3	205.1	209.9	211.5	213.9	208.4	207.5	203.5	202.0
42.5°	196.1	197.5	201.6	202.6	204.3	200.8	199.3	195.2	193.7
45°	183.7	185.2	189.2	190.8	191.6	188.5	187.6	183.6	181.3
47.5°	171.1	172.7	176.7	178.4	179.2	176.9	174.4	171.1	168.7
50°	162.2	163.8	167.8	170.2	170.9	168.6	166.2	162.1	159.8
52.5°	153.9	154.9	158.9	161.9	162.0	160.3	157.3	153.3	151.5
55°	139.1	141.5	145.5	148.7	148.7	147.1	143.9	139.9	139.1
57.5°	126.3	127.2	131.2	134.4	134.5	133.6	130.4	126.4	125.6
60°	116.1	117.6	121.6	124.8	125.6	124.1	120.9	116.9	116.1
62.5°	107.8	108.1	112.1	115.3	116.1	114.5	111.3	107.9	106.5
65°	93.0	93.8	97.0	101.0	101.8	100.2	97.0	93.8	93.0
67.5°	78.9	79.7	82.7	86.5	87.5	85.9	81.9	79.5	78.7
70°	70.0	70.7	73.1	76.4	77.9	76.4	72.4	70.0	69.2
72.5°	60.4	61.2	63.6	66.8	67.7	66.2	62.8	61.0	60.3
75°	46.1	47.7	49.3	52.5	53.3	52.5	49.3	47.7	46.9
77.5°	33.7	34.5	36.1	38.3	39.0	38.3	36.9	34.5	34.5
80°	25.4	26.2	27.8	29.4	29.4	29.4	28.6	26.2	26.2
82.5°	17.8	18.6	19.6	21.8	21.1	21.8	21.0	19.2	18.6
85°	7.2	7.9	9.5	11.1	10.3	11.1	10.3	8.7	8.7
87.5°	1.0	1.6	1.6	3.3	3.3	4.1	3.2	3.1	3.2
90°	1.6	1.6	1.6	0.8	0.8	1.6	3.3	5.8	6.6
92.5°	3.0	3.6	3.6	4.1	4.8	9.5	6.6	7.7	7.9
95°	6.6	6.6	8.2	19.7	16.5	24.5	27.2	25.5	24.7
97.5°	10.9	11.7	16.0	51.7	37.1	32.9	44.8	47.9	45.0
100°	14.8	15.6	23.9	81.8	53.6	42.3	49.4	58.5	60.2
102.5°	19.4	20.9	37.1	126.1	75.3	53.7	56.7	65.2	67.4
105°	27.2	31.2	79.1	208.8	113.7	71.0	72.5	75.1	78.3
107.5°	42.2	56.7	200.9	296.4	161.0	93.2	96.4	94.1	94.3
110°	59.3	89.9	328.8	346.8	195.3	110.7	109.6	107.9	105.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	107.5	188.4	458.0	391.4	231.6	129.6	120.1	127.6	122.6
115°	300.8	456.3	591.7	452.7	284.3	161.8	136.0	146.8	150.0
117.5°	620.3	690.8	658.2	507.2	334.7	199.5	151.1	158.8	164.2
120°	771.3	768.9	690.6	540.8	368.3	227.3	162.3	167.4	171.4
122.5°	826.7	803.6	717.6	571.1	400.7	257.1	177.5	174.6	179.3
125°	875.1	843.7	756.5	612.7	448.3	302.4	207.7	186.3	189.5
127.5°	906.6	872.1	789.8	650.7	494.4	350.5	247.5	204.8	200.9
130°	923.8	889.9	810.9	674.0	524.1	381.5	275.2	223.1	213.4
132.5°	938.3	906.4	830.6	696.5	553.1	413.1	304.9	246.1	231.9
135°	958.4	927.7	857.8	729.5	593.3	458.8	349.4	288.0	267.8
137.5°	973.7	945.8	879.3	759.0	632.4	503.8	396.0	334.3	313.6
140°	982.3	955.7	892.4	777.6	656.8	532.7	427.7	364.6	345.3
142.5°	990.2	964.2	903.6	794.3	679.8	560.3	460.0	395.6	376.3
145°	999.6	974.6	920.5	818.4	712.8	601.6	508.4	442.9	424.4
147.5°	1004.0	981.0	932.5	839.8	742.3	639.8	553.4	490.5	471.8
150°	1005.3	983.6	937.8	852.5	761.4	664.7	581.8	522.8	503.5
152.5°	1006.0	983.6	941.7	863.2	778.6	687.0	609.5	553.8	535.8
155°	1002.9	982.7	946.0	875.9	801.8	718.8	649.3	598.7	582.6
157.5°	995.6	980.8	946.7	886.7	821.2	748.6	687.3	640.9	625.8
160°	989.7	976.8	946.0	892.7	833.1	766.2	710.3	668.0	653.5
162.5°	981.8	968.9	942.7	895.5	843.7	782.6	732.1	691.8	679.8
165°	969.1	957.0	938.6	899.7	857.8	807.1	763.1	728.2	718.6
167.5°	952.9	945.4	929.5	901.4	869.2	828.1	791.4	763.0	754.8
170°	941.1	935.4	922.9	900.9	875.1	840.5	809.2	783.5	777.9
172.5°	925.9	922.8	914.4	898.4	879.8	851.6	825.0	802.7	797.0
175°	902.3	903.9	900.7	894.7	885.0	865.7	847.1	831.3	825.7
177.5°	884.7	884.7	885.4	886.0	884.7	876.3	866.9	857.7	858.3
180°	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8

(END OF REPORT)