

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: P522310

Luminaire Tested: **SQW-F-025U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522310  
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-025U-075D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

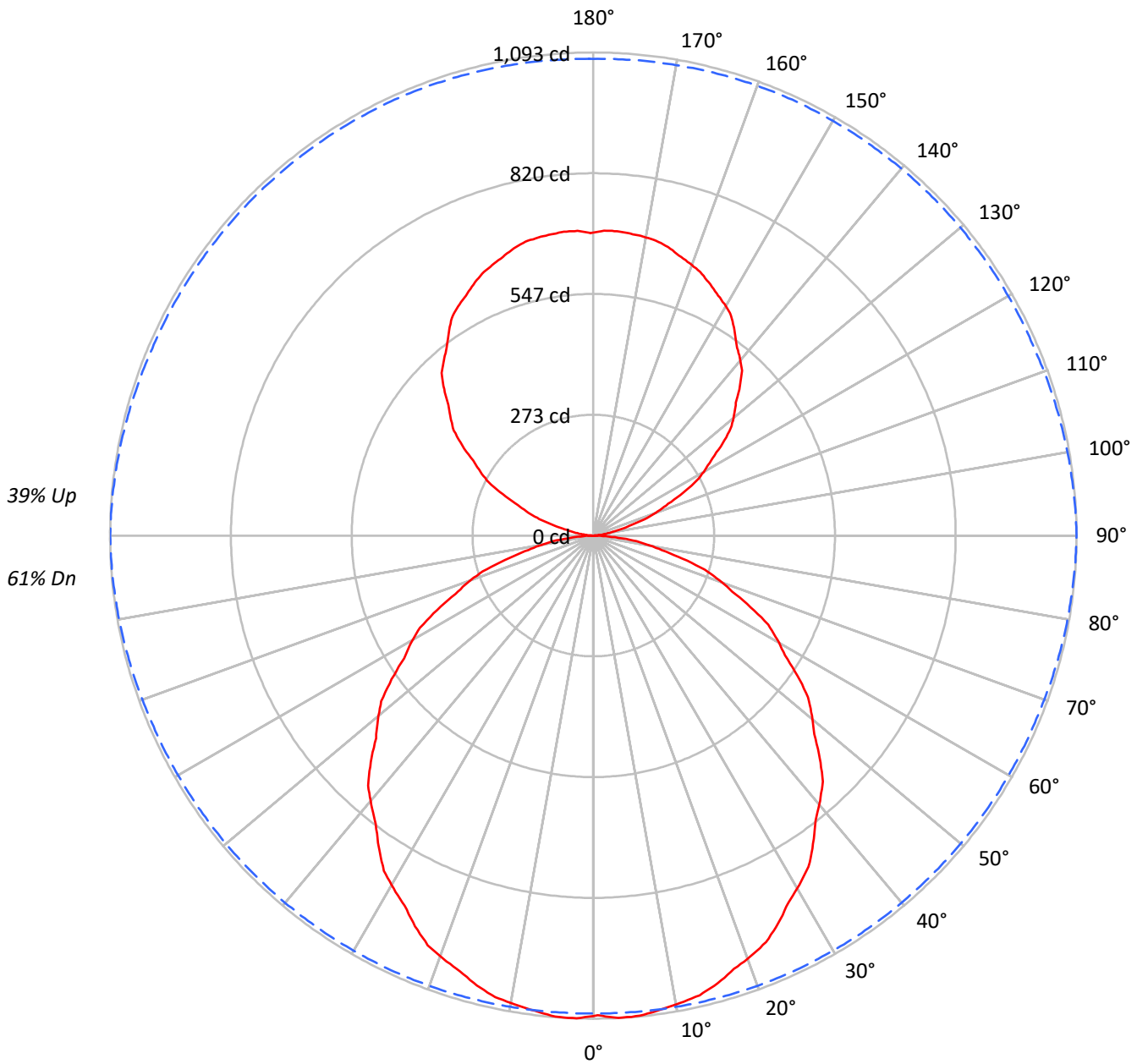
Lumens per Lamp: N/A  
Luminaire Lumens: 4941.6 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.9  
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



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### Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral      - - - Horizontal Cone Through 2.5° Vertical



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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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	61
1	100	96	92	88	94	90	86	83	78	76	73	68	66	64	59	57	56	51
2	91	83	77	72	85	78	73	68	69	64	61	60	56	54	51	49	47	43
3	83	73	66	60	77	69	62	57	60	55	51	53	49	45	45	42	40	36
4	76	65	57	50	71	61	54	48	54	48	43	47	42	39	40	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	33	30	27
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	37	31	39	33	28	34	29	26	30	26	23	21
8	55	42	34	29	51	40	33	28	36	30	25	31	27	23	28	24	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	19	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15

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

	0°	90°	180°
0°	17526	17526	17526
5°	17541	17695	17455
10°	17518	17639	17344
15°	17453	17576	17187
20°	17338	17466	16974
25°	17126	17314	16710
30°	16913	17111	16438
35°	16669	16878	16166
40°	16394	16638	15789
45°	16089	16401	15481
50°	15724	16098	15111
55°	15322	15769	14666
60°	14835	15452	14118
65°	14189	14957	13417
70°	13426	14275	12420
75°	12246	12976	11185
80°	10656	11539	9568
85°	8058	9040	6688



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	2.1
10°-20°	293.4	5.9
20°-30°	441.3	8.9
30°-40°	527.1	10.7
40°-50°	541.9	11.0
50°-60°	487.7	9.9
60°-70°	371.2	7.5
70°-80°	210.3	4.3
80°-90°	55.3	1.1
90°-100°	18.0	0.4
100°-110°	77.9	1.6
110°-120°	222.3	4.5
120°-130°	337.9	6.8
130°-140°	365.5	7.4
140°-150°	349.2	7.1
150°-160°	287.2	5.8
160°-170°	187.7	3.8
170°-180°	64.9	1.3
0°-30°	837.4	16.9
0°-40°	1364.5	27.6
0°-60°	2394.1	48.4
0°-90°	3030.9	61.3
90°-120°	318.2	6.4
90°-150°	1370.8	27.7
90°-180°	1911.0	38.7
0°-180°	4941.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1086	1086	1086	1086	1086	
5°	1082	1082	1092	1079	1077	103
15°	1044	1046	1052	1038	1028	294
25°	961	971	972	955	938	443
35°	846	857	856	838	820	529
45°	705	714	718	697	678	543
55°	544	555	560	539	521	486
65°	371	382	392	368	351	368
75°	196	203	208	191	179	208
85°	44	49	49	44	36	52
90°	0	0	0	0	0	1
95°	3	4	12	29	27	4
105°	18	46	90	62	66	21
115°	164	436	225	107	121	225
125°	653	575	360	177	152	574
135°	723	654	473	294	232	557
145°	753	705	564	417	356	472
155°	762	728	630	523	474	352
165°	744	728	674	604	577	211
175°	701	703	690	666	648	68
180°	685	685	685	685	685	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5
2.5°	1081.2	1084.6	1084.6	1084.8	1093.1	1084.0	1083.8	1083.7	1078.7
5°	1082.3	1082.3	1082.3	1080.4	1091.8	1079.4	1079.1	1077.0	1077.0
7.5°	1076.1	1074.3	1075.5	1073.2	1083.6	1070.1	1070.8	1068.5	1068.1
10°	1068.5	1067.5	1069.6	1065.5	1075.9	1062.4	1063.2	1060.0	1057.9
12.5°	1060.0	1059.0	1061.9	1056.2	1067.4	1053.9	1053.9	1049.8	1049.4
15°	1044.1	1044.1	1046.2	1042.2	1051.5	1038.0	1037.7	1033.4	1028.2
17.5°	1025.2	1022.9	1028.0	1021.4	1030.9	1015.8	1016.9	1010.6	1004.8
20°	1009.1	1006.0	1014.4	1006.1	1016.5	998.9	1001.6	992.0	987.9
22.5°	990.4	988.1	997.4	990.0	999.5	982.7	983.8	971.7	968.3
25°	961.3	960.3	970.9	962.6	971.9	954.3	955.0	942.1	938.0
27.5°	929.3	928.5	940.1	931.8	939.9	923.5	924.0	909.9	904.7
30°	907.2	907.2	918.9	910.6	917.8	902.3	901.9	886.9	881.7
32.5°	883.4	882.6	894.3	887.6	894.1	877.7	876.4	862.3	857.1
35°	845.7	845.7	857.3	850.1	856.3	841.8	838.2	824.4	820.2
37.5°	805.8	804.7	816.4	811.8	817.4	802.1	797.3	782.4	781.4
40°	777.8	776.7	788.4	786.3	789.4	774.9	769.3	754.3	749.1
42.5°	748.9	749.5	759.5	757.5	761.4	746.9	741.3	725.5	722.8
45°	704.6	703.5	714.1	713.2	718.3	703.8	697.1	680.1	678.0
47.5°	658.3	658.7	668.0	669.2	672.3	659.0	651.1	634.3	632.2
50°	626.0	628.1	636.6	637.8	640.9	628.4	619.7	603.7	601.6
52.5°	594.6	595.9	604.4	608.0	608.6	597.8	587.4	572.3	570.2
55°	544.3	547.4	554.9	559.2	560.2	550.9	539.0	524.1	521.0
57.5°	493.4	495.5	505.7	510.6	510.8	501.0	489.2	475.2	470.3
60°	459.4	461.5	470.1	477.5	478.5	467.1	455.2	441.3	437.2
62.5°	424.6	426.7	435.3	442.7	443.7	433.2	420.4	406.5	403.2
65°	371.4	373.4	382.0	390.5	391.5	381.2	368.2	354.3	351.2
67.5°	319.2	321.2	329.6	336.6	338.9	327.7	315.8	302.9	298.8
70°	284.4	286.4	293.9	299.3	302.4	292.0	280.1	267.3	263.1
72.5°	247.9	249.1	256.6	262.7	263.4	254.6	243.6	233.4	230.0
75°	196.3	198.4	202.7	209.0	208.0	199.7	191.0	183.5	179.3
77.5°	146.9	149.1	153.2	157.5	158.1	150.4	143.0	135.5	132.6
80°	114.6	117.7	121.0	125.2	124.1	119.0	112.5	105.0	102.9
82.5°	84.9	87.2	91.3	94.6	91.9	88.4	83.6	76.1	74.1
85°	43.5	44.5	48.8	51.9	48.8	47.8	43.5	38.2	36.1
87.5°	9.3	11.0	14.4	18.6	15.3	16.1	12.7	8.5	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.9	2.8	10.1	11.2	9.8	9.8
95°	2.9	2.9	4.1	12.8	12.2	20.7	29.1	27.3	27.3
97.5°	5.9	6.5	9.3	37.8	28.5	27.7	39.3	43.7	44.5
100°	8.7	9.3	14.0	61.8	42.4	36.2	43.0	51.2	52.9
102.5°	12.0	13.0	22.3	97.1	59.6	42.5	49.1	56.3	58.5
105°	18.0	19.7	45.9	162.8	90.1	55.4	61.6	64.6	66.3
107.5°	26.7	33.7	123.7	228.8	127.9	73.2	79.8	79.3	80.8
110°	36.0	50.2	213.9	264.9	155.8	87.0	87.2	91.8	90.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	59.8	99.9	319.0	299.6	183.7	103.5	94.2	104.4	105.0
115°	163.9	281.6	436.0	348.3	225.0	132.9	107.0	116.9	120.9
117.5°	406.4	489.9	495.8	391.5	266.1	165.6	121.6	126.0	131.3
120°	551.0	568.1	523.7	418.0	293.5	189.0	133.7	132.1	137.8
122.5°	607.8	601.6	546.5	442.7	320.5	213.7	148.6	139.5	143.3
125°	653.3	637.4	574.9	476.9	359.8	250.7	176.7	151.7	151.7
127.5°	680.5	662.0	600.9	507.2	395.3	288.1	210.5	171.6	166.2
130°	696.4	676.5	616.7	528.2	418.5	312.2	234.3	188.7	180.2
132.5°	708.4	690.4	631.6	544.6	441.3	335.9	258.0	210.0	196.0
135°	723.1	707.8	654.5	569.8	473.2	371.4	293.5	246.7	232.5
137.5°	732.5	720.6	675.1	590.4	502.7	406.6	329.5	282.4	269.6
140°	737.6	728.0	685.3	602.7	520.8	429.3	354.6	306.6	294.7
142.5°	742.7	734.9	692.8	616.2	538.5	452.0	379.2	331.3	318.4
145°	753.3	744.2	705.1	632.6	563.8	483.7	417.4	367.1	355.7
147.5°	760.8	749.9	715.2	650.2	587.8	512.4	452.3	403.8	392.6
150°	762.6	751.3	720.8	659.6	602.2	530.0	473.7	427.6	416.8
152.5°	761.2	752.6	725.0	667.6	614.3	547.1	493.3	450.4	440.5
155°	762.0	754.1	728.3	678.4	629.5	571.0	522.6	484.5	474.3
157.5°	758.6	753.3	730.7	686.7	643.6	592.3	549.4	517.4	507.1
160°	758.6	750.6	730.7	691.4	653.3	606.2	566.2	537.5	529.0
162.5°	753.4	746.4	730.2	694.8	662.6	619.1	582.0	555.2	548.9
165°	744.0	738.3	727.7	699.3	674.3	636.8	604.5	580.6	576.6
167.5°	736.7	728.9	723.1	699.1	682.2	649.4	623.6	603.8	601.5
170°	728.3	723.2	718.4	697.8	685.9	658.6	637.1	617.3	615.0
172.5°	717.6	714.8	712.4	697.0	688.2	666.4	648.7	630.7	626.6
175°	701.0	703.3	702.8	695.1	690.5	676.3	665.6	652.6	647.5
177.5°	690.8	689.9	692.2	690.8	690.3	681.7	678.7	669.9	672.6
180°	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7

(END OF REPORT)