

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: P522488

Luminaire Tested: **SQW-F-025U-025D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522488  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-025U-025D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2758.3 lumens  
Efficiency: N/A  
Efficacy: 98.2 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: General Diffuse

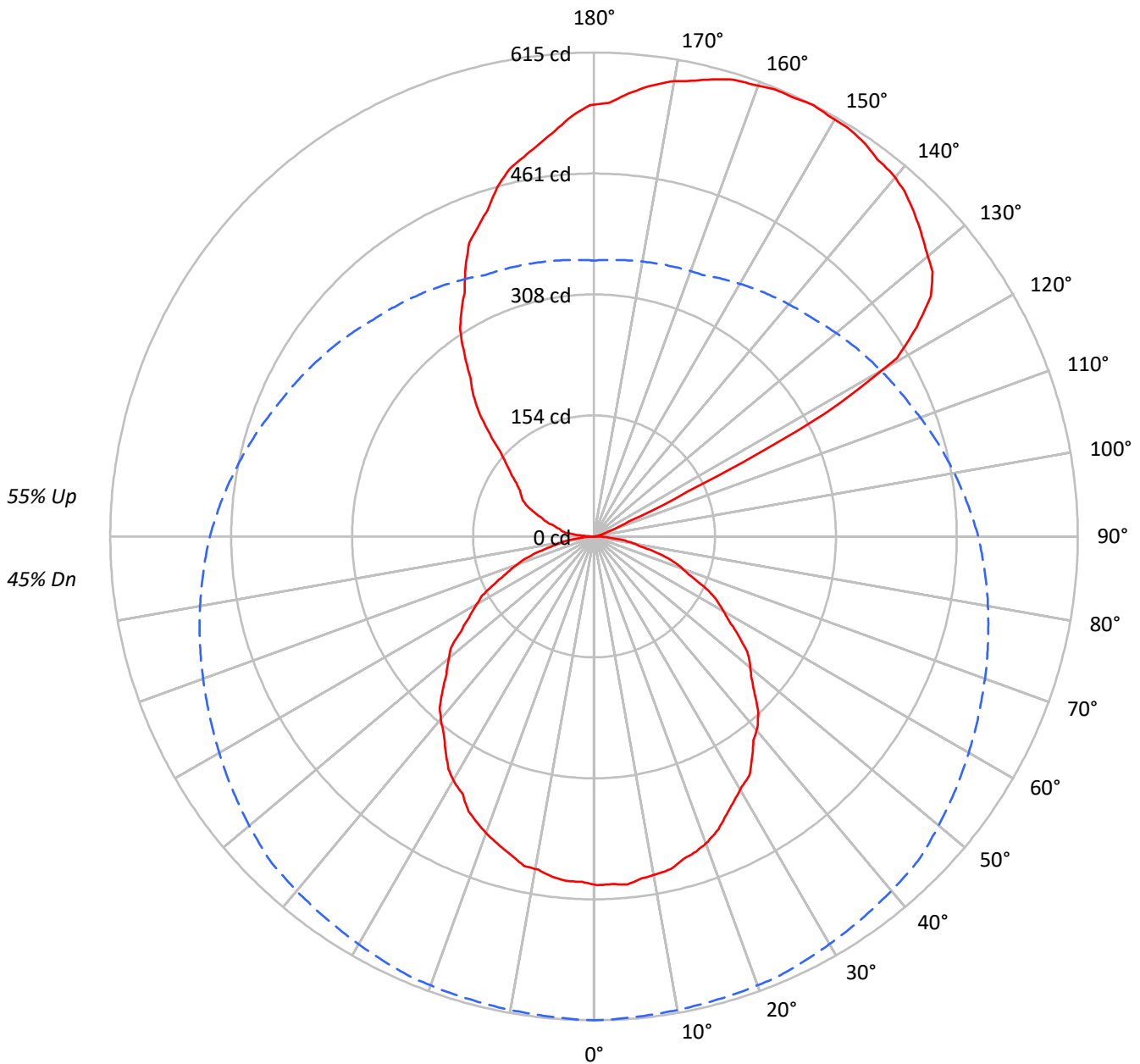
Input Watts (W): 28.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral      - - - Horizontal Cone Through 152.5° 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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				45
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43	37				37
2	88	80	74	69	80	74	68	64	61	58	54	50	47	45	40	38	36	31				31
3	80	70	63	57	73	65	58	53	54	49	45	44	41	38	35	33	31	26				26
4	73	62	54	48	67	57	50	45	48	43	39	39	35	32	31	28	26	22				22
5	67	55	47	41	61	51	44	39	43	37	33	35	31	28	28	25	23	19				19
6	62	50	41	36	56	46	39	33	38	33	29	32	28	24	25	22	20	17				17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15				15
8	53	40	33	27	48	37	31	26	32	26	22	26	22	19	21	18	16	13				13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	16	14	12				12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11				11

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

	0°	90°	180°
0°	7161	7161	7161
5°	7204	7237	7125
10°	7158	7174	7047
15°	7117	7168	7004
20°	7115	7132	6930
25°	6975	7062	6852
30°	6896	6969	6714
35°	6828	6865	6556
40°	6742	6742	6433
45°	6542	6677	6272
50°	6458	6581	6111
55°	6269	6435	5855
60°	6051	6242	5641
65°	5849	6036	5360
70°	5514	5792	5051
75°	5078	5265	4529
80°	4472	4649	3831
85°	3279	3631	2538



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	1.5
10°-20°	119.8	4.3
20°-30°	180.0	6.5
30°-40°	214.8	7.8
40°-50°	220.7	8.0
50°-60°	198.0	7.2
60°-70°	149.9	5.4
70°-80°	85.6	3.1
80°-90°	22.4	0.8
90°-100°	13.9	0.5
100°-110°	61.5	2.2
110°-120°	176.6	6.4
120°-130°	269.0	9.8
130°-140°	292.0	10.6
140°-150°	279.3	10.1
150°-160°	230.1	8.3
160°-170°	150.6	5.5
170°-180°	52.1	1.9
0°-30°	341.7	12.4
0°-40°	556.5	20.2
0°-60°	975.2	35.4
0°-90°	1233.2	44.7
90°-120°	251.9	9.1
90°-150°	1092.3	39.6
90°-180°	1525.0	55.3
0°-180°	2758.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	444	444	444	444	444	
5°	444	442	446	440	440	42
15°	426	429	429	425	419	121
25°	392	395	396	392	385	181
35°	346	348	348	340	333	217
45°	286	292	292	282	275	222
55°	223	228	229	217	208	199
65°	153	156	158	147	140	151
75°	81	84	84	78	73	86
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	2	3	10	22	21	3
105°	14	37	71	49	52	16
115°	132	348	178	83	94	183
125°	526	458	284	141	120	462
135°	580	525	376	233	186	448
145°	607	565	449	332	283	380
155°	613	588	503	416	379	284
165°	600	585	539	484	461	170
175°	565	567	555	531	518	55
180°	549	549	549	549	549	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5
2.5°	442.7	443.5	445.1	442.8	445.9	442.8	443.5	441.9	439.6
5°	444.5	442.6	442.5	442.6	446.5	441.7	439.6	438.6	439.6
7.5°	439.0	439.4	439.2	438.9	443.1	435.6	438.6	435.7	436.1
10°	436.6	434.7	437.6	435.7	437.6	434.7	434.7	431.7	429.8
12.5°	434.3	433.1	434.5	431.1	436.8	429.4	428.4	427.8	428.2
15°	425.8	428.7	428.8	425.9	428.8	422.1	424.9	420.9	419.0
17.5°	421.1	418.3	419.6	417.3	420.5	415.0	414.7	410.6	411.1
20°	414.1	411.2	414.1	410.3	415.1	406.4	409.2	404.2	403.3
22.5°	404.7	404.1	407.8	404.7	405.6	400.8	400.5	394.8	393.9
25°	391.5	392.5	395.4	390.7	396.4	388.7	391.5	382.7	384.6
27.5°	380.1	380.3	383.7	381.3	382.5	376.5	376.8	369.3	368.0
30°	369.9	370.9	375.8	371.9	373.8	367.1	368.9	359.1	360.1
32.5°	362.9	360.7	364.8	361.0	364.4	357.7	357.9	350.5	349.1
35°	346.4	346.4	348.3	348.3	348.3	341.6	340.5	333.6	332.6
37.5°	329.3	328.5	335.2	330.1	332.4	326.9	324.8	318.1	316.9
40°	319.9	316.0	321.8	319.9	319.9	315.1	313.0	307.1	305.2
42.5°	306.5	305.8	310.1	308.9	311.2	303.4	301.2	294.5	293.4
45°	286.5	287.5	292.4	290.5	292.4	287.6	281.6	276.7	274.7
47.5°	269.6	268.1	272.8	272.6	274.5	267.3	264.5	257.1	256.7
50°	257.1	257.1	261.0	260.1	262.0	256.2	251.2	245.3	243.3
52.5°	244.5	243.0	247.7	247.5	247.9	242.9	237.8	232.7	231.6
55°	222.7	223.7	227.6	227.7	228.6	223.8	216.8	210.9	208.0
57.5°	202.3	201.8	205.5	206.6	206.6	201.8	195.7	190.7	189.6
60°	187.4	188.4	191.3	193.3	193.3	188.5	181.5	176.6	174.7
62.5°	173.3	173.5	177.2	178.4	180.0	174.4	168.2	163.2	161.3
65°	153.1	152.1	156.0	158.0	158.0	153.2	147.2	142.2	140.3
67.5°	130.1	131.5	134.6	135.8	136.8	131.0	125.2	122.0	121.1
70°	116.8	115.8	119.7	121.7	122.7	116.9	111.9	107.9	107.0
72.5°	102.6	102.4	105.6	107.5	107.7	102.0	97.7	94.5	92.0
75°	81.4	82.4	84.4	84.4	84.4	80.5	77.5	74.5	72.6
77.5°	60.6	61.6	63.4	65.1	64.2	60.7	57.7	54.7	53.0
80°	48.1	49.0	50.0	51.0	50.0	48.1	45.1	42.2	41.2
82.5°	35.5	35.7	38.3	38.4	37.5	35.6	33.4	30.4	30.2
85°	17.7	18.6	20.6	20.6	19.6	18.7	16.7	14.7	13.7
87.5°	3.9	4.7	6.3	7.8	6.3	6.3	4.7	3.1	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.4	0.4	0.8	1.2	2.0	7.6	8.6	7.8	7.4
95°	2.0	2.0	3.1	9.7	9.7	15.7	21.5	21.0	21.0
97.5°	4.6	5.1	7.2	29.6	22.1	21.5	30.7	33.8	34.1
100°	6.6	7.1	11.2	48.2	32.7	27.7	32.7	39.9	41.4
102.5°	9.1	10.0	17.8	76.1	46.2	33.2	38.5	43.6	45.1
105°	13.8	15.3	37.3	127.6	70.6	44.1	48.6	51.1	51.6
107.5°	20.8	26.4	102.2	179.4	100.1	58.3	61.0	62.7	63.3
110°	28.1	40.1	177.4	210.7	122.2	69.2	67.5	72.1	71.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	47.3	82.5	260.5	236.4	144.3	82.1	73.6	81.1	81.7
115°	132.4	227.4	348.2	272.9	177.9	104.4	83.3	90.6	93.6
117.5°	332.4	395.5	394.4	306.8	210.3	130.8	95.0	98.5	101.9
120°	446.9	456.4	417.8	329.6	231.1	149.6	104.8	103.4	106.4
122.5°	489.5	481.8	435.4	349.7	252.4	169.3	117.5	108.7	111.3
125°	526.2	511.2	458.2	378.3	283.8	198.3	140.6	120.2	119.7
127.5°	546.5	530.8	480.5	403.1	312.6	228.4	166.9	136.4	131.8
130°	556.3	541.8	496.0	418.4	331.9	248.9	186.1	150.7	143.7
132.5°	568.2	552.5	507.0	434.0	350.3	268.1	205.4	167.8	159.6
135°	579.9	565.4	525.1	454.3	376.3	296.3	233.2	196.1	185.6
137.5°	590.3	577.0	541.7	470.4	399.9	324.2	262.6	226.5	213.7
140°	597.2	582.7	548.7	482.7	414.2	341.7	282.3	246.2	236.2
142.5°	599.7	590.8	556.0	493.0	430.1	358.4	301.9	264.7	255.5
145°	607.0	601.0	565.0	505.4	449.0	383.5	331.9	293.3	283.3
147.5°	611.7	602.7	573.3	518.9	467.4	405.9	359.1	322.0	312.7
150°	612.1	605.1	579.9	527.1	479.6	422.1	375.8	340.9	332.4
152.5°	615.3	606.7	583.1	534.1	488.6	435.9	392.6	360.1	350.8
155°	613.1	607.1	588.0	543.1	502.6	453.6	416.2	387.4	379.4
157.5°	613.1	605.7	588.6	550.1	516.1	473.1	438.3	411.7	405.7
160°	609.0	606.0	589.1	555.1	523.1	484.1	453.0	428.8	420.8
162.5°	607.4	602.4	589.9	558.4	529.2	493.0	465.7	442.8	436.8
165°	600.3	595.8	585.0	559.9	538.9	508.9	484.2	463.7	460.7
167.5°	592.2	588.7	581.6	562.4	545.4	520.9	500.1	483.5	479.4
170°	586.5	581.0	578.3	563.7	548.7	528.2	510.3	495.4	490.9
172.5°	576.7	576.0	573.8	560.5	551.5	534.6	519.7	506.1	503.2
175°	565.0	565.0	566.6	558.3	555.3	541.3	530.8	522.5	518.0
177.5°	551.5	551.9	555.2	554.8	555.2	547.2	544.2	536.4	535.6
180°	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7

(END OF REPORT)