

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: P522493

Luminaire Tested: **SQW-F-025U-050D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522493
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-050D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 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

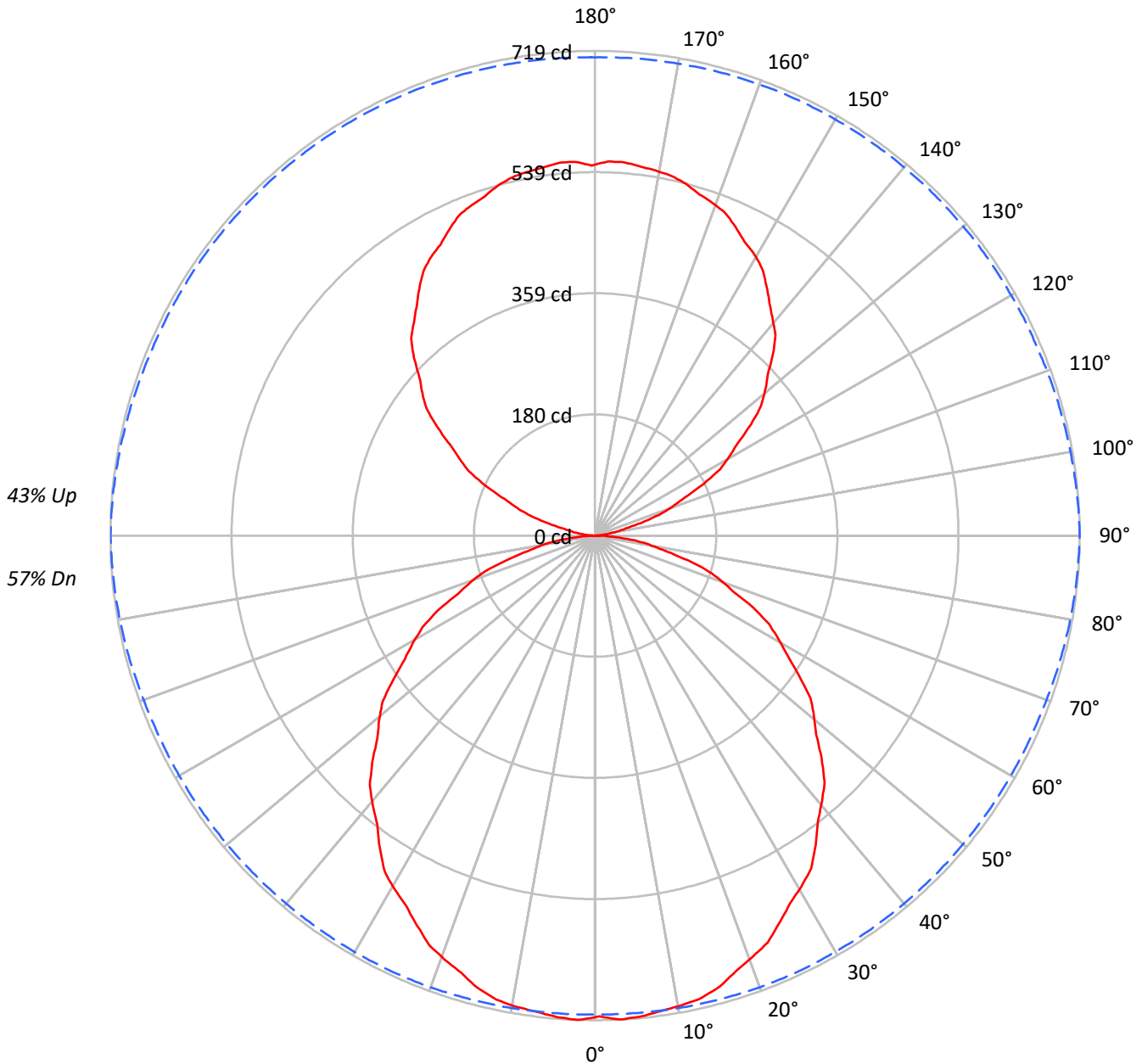
Lumens per Lamp: N/A
Luminaire Lumens: 3510.7 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.1
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 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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	99	95	91	87	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	76	71	84	77	71	67	67	62	59	57	54	51	48	46	44	39
3	82	72	65	59	76	68	61	56	59	53	49	50	46	43	42	40	37	33
4	75	64	56	50	70	60	53	47	52	46	42	45	40	37	38	35	32	28
5	69	57	49	43	64	53	46	40	46	41	36	40	35	32	34	30	28	25
6	63	51	43	37	59	48	40	35	42	36	31	36	31	28	31	27	24	21
7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	24	22	19
8	54	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17
9	51	38	31	25	47	36	29	24	32	26	22	28	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11517	11517	11517
5°	11561	11609	11481
10°	11567	11614	11422
15°	11480	11595	11268
20°	11414	11464	11127
25°	11327	11327	10995
30°	11158	11250	10757
35°	10965	11101	10521
40°	10796	10920	10319
45°	10643	10755	10015
50°	10427	10572	9784
55°	10137	10331	9447
60°	9823	10107	9029
65°	9482	9861	8585
70°	8988	9262	7874
75°	8322	8384	7099
80°	7392	7485	5746
85°	5817	5632	4001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.9
10°-20°	192.8	5.5
20°-30°	290.0	8.3
30°-40°	346.2	9.9
40°-50°	355.4	10.1
50°-60°	319.4	9.1
60°-70°	242.2	6.9
70°-80°	136.6	3.9
80°-90°	35.5	1.0
90°-100°	13.9	0.4
100°-110°	61.5	1.8
110°-120°	176.6	5.0
120°-130°	269.0	7.7
130°-140°	292.0	8.3
140°-150°	279.3	8.0
150°-160°	230.1	6.6
160°-170°	150.6	4.3
170°-180°	52.1	1.5
0°-30°	550.4	15.7
0°-40°	896.5	25.5
0°-60°	1571.4	44.8
0°-90°	1985.6	56.6
90°-120°	251.9	7.2
90°-150°	1092.3	31.1
90°-180°	1525.0	43.4
0°-180°	3510.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	713	713	713	713	713	
5°	713	712	716	711	708	68
15°	687	690	694	678	674	194
25°	636	638	636	627	617	292
35°	556	565	563	548	534	348
45°	466	472	471	453	439	359
55°	360	367	367	349	336	322
65°	248	255	258	236	225	245
75°	133	135	134	122	114	142
85°	31	34	30	26	22	36
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°	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3	713.3
2.5°	710.2	713.3	712.6	711.9	718.8	712.7	713.3	712.5	709.4
5°	713.3	711.4	712.4	711.5	716.3	710.5	711.4	708.4	708.4
7.5°	710.2	707.1	708.0	707.4	711.6	705.1	703.9	700.3	703.7
10°	705.5	701.7	702.5	702.7	708.4	698.8	697.6	694.7	696.7
12.5°	699.2	696.9	697.1	695.7	703.7	691.1	690.6	688.4	688.8
15°	686.8	689.7	689.8	683.2	693.7	678.4	678.0	677.9	674.1
17.5°	672.1	676.2	679.6	671.1	678.2	665.4	665.1	661.6	657.0
20°	664.3	665.2	670.2	662.4	667.2	656.7	656.4	647.6	647.6
22.5°	653.3	653.5	659.2	650.7	655.5	644.9	645.4	635.1	635.8
25°	635.8	634.9	637.8	632.0	635.8	626.2	627.0	616.2	617.2
27.5°	614.2	615.4	619.9	611.0	616.8	605.1	605.4	595.6	594.2
30°	598.5	600.5	607.4	597.7	603.4	591.0	589.7	579.8	577.0
32.5°	582.1	584.0	590.9	583.5	588.5	576.8	574.0	562.6	560.5
35°	556.3	558.3	565.2	561.3	563.2	551.7	548.5	536.7	533.8
37.5°	530.2	532.2	537.9	535.2	536.9	524.8	520.2	509.8	507.7
40°	512.2	514.1	519.1	517.1	518.1	507.5	501.4	492.5	489.6
42.5°	494.9	496.1	500.2	496.7	499.2	489.5	482.6	473.6	469.2
45°	466.1	466.1	472.0	468.1	471.0	461.4	453.3	443.4	438.6
47.5°	436.2	434.5	441.3	440.0	441.3	431.0	422.9	412.6	409.2
50°	415.1	414.1	420.9	421.9	420.9	411.3	403.3	391.5	389.5
52.5°	392.3	393.6	399.0	399.9	399.7	390.2	381.3	370.3	368.3
55°	360.1	362.0	367.0	367.9	367.0	358.3	349.3	337.5	335.6
57.5°	326.2	330.8	335.0	336.0	336.6	327.3	316.1	307.2	303.2
60°	304.2	308.0	313.0	314.0	313.0	305.3	293.4	284.4	279.6
62.5°	282.2	284.5	289.5	292.0	289.5	281.8	269.8	261.7	260.0
65°	248.2	250.2	255.1	257.1	258.1	247.5	235.5	228.5	224.7
67.5°	211.5	213.9	216.7	219.4	220.6	209.4	199.6	192.2	188.0
70°	190.4	190.4	192.3	194.3	196.2	186.6	177.6	168.7	166.8
72.5°	167.6	167.6	170.3	171.5	171.9	163.1	154.8	146.8	146.4
75°	133.4	133.4	135.4	136.3	134.4	128.7	121.7	114.8	113.8
77.5°	101.5	100.9	102.6	103.4	102.4	95.9	89.1	84.4	83.0
80°	79.5	80.4	81.4	81.4	80.5	74.7	68.7	64.7	61.8
82.5°	59.1	60.0	61.8	61.8	59.3	55.8	50.6	45.9	45.3
85°	31.4	31.4	34.3	33.3	30.4	28.5	25.5	21.6	21.6
87.5°	7.8	8.6	10.2	12.5	8.6	9.4	5.5	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)