

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: P522496

Luminaire Tested: **SQW-F-025U-050D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522496
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

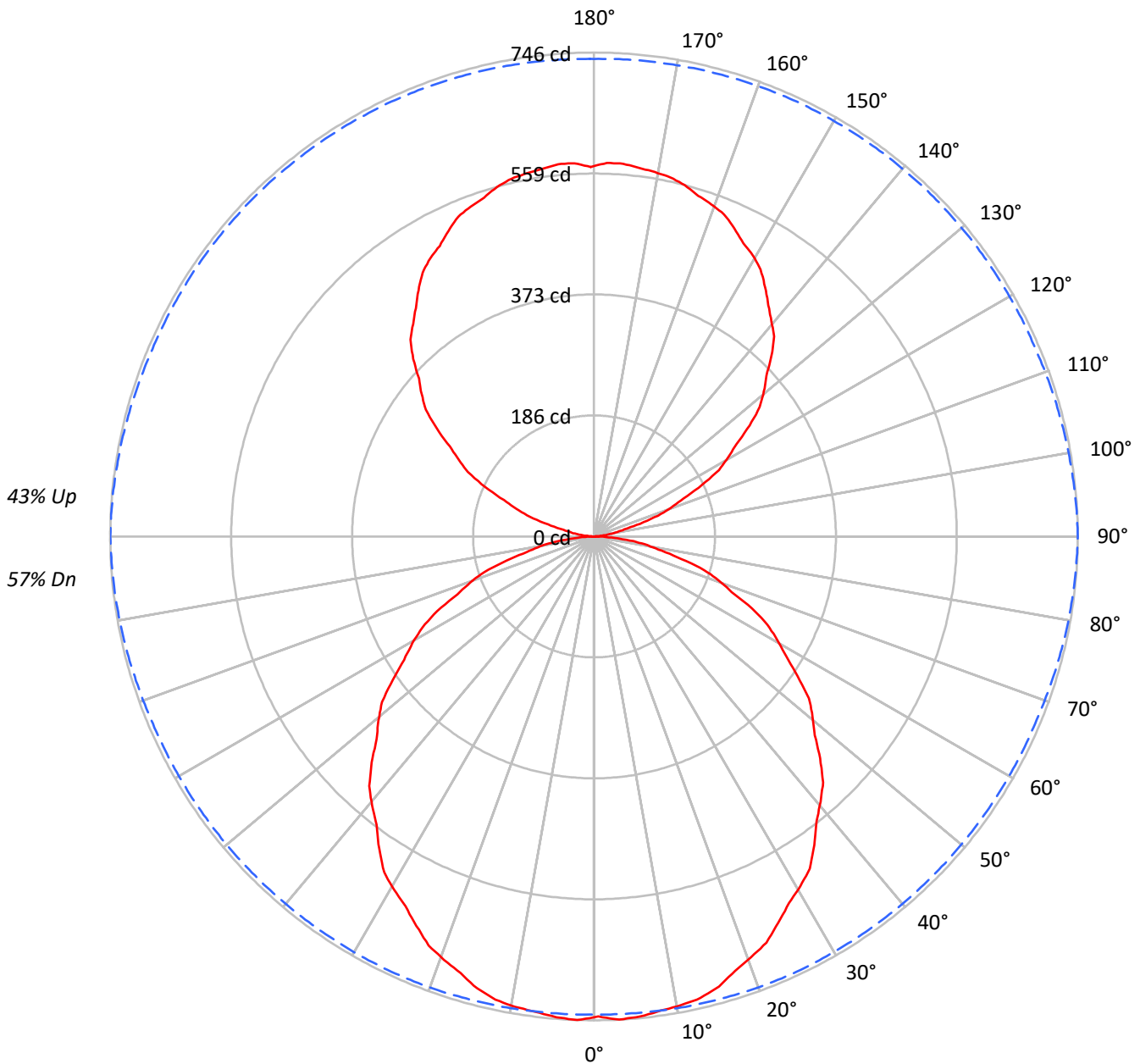
Lumens per Lamp: N/A
Luminaire Lumens: 3641.6 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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°	11946	11946	11946
5°	11992	12042	11909
10°	11998	12047	11847
15°	11908	12028	11687
20°	11838	11892	11541
25°	11749	11749	11405
30°	11574	11669	11158
35°	11375	11515	10914
40°	11198	11327	10705
45°	11038	11154	10387
50°	10814	10967	10150
55°	10514	10716	9799
60°	10188	10485	9368
65°	9838	10227	8905
70°	9323	9611	8167
75°	8634	8696	7367
80°	7662	7764	5960
85°	6039	5854	4150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.9
10°-20°	200.0	5.5
20°-30°	300.8	8.3
30°-40°	359.1	9.9
40°-50°	368.7	10.1
50°-60°	331.4	9.1
60°-70°	251.2	6.9
70°-80°	141.7	3.9
80°-90°	36.8	1.0
90°-100°	14.4	0.4
100°-110°	63.8	1.8
110°-120°	183.2	5.0
120°-130°	279.1	7.7
130°-140°	302.9	8.3
140°-150°	289.7	8.0
150°-160°	238.7	6.6
160°-170°	156.2	4.3
170°-180°	54.1	1.5
0°-30°	570.9	15.7
0°-40°	929.9	25.5
0°-60°	1630.0	44.8
0°-90°	2059.7	56.6
90°-120°	261.3	7.2
90°-150°	1133.0	31.1
90°-180°	1582.0	43.4
0°-180°	3641.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	740	740	740	740	740	
5°	740	739	743	738	735	70
15°	712	716	720	703	699	201
25°	660	662	660	650	640	303
35°	577	586	584	569	554	361
45°	483	490	488	470	455	373
55°	374	381	381	362	348	334
65°	258	265	268	244	233	254
75°	138	140	139	126	118	147
85°	33	36	32	26	22	38
90°	0	0	0	0	0	1
95°	2	3	10	22	22	3
105°	14	39	73	50	54	17
115°	137	361	185	86	97	190
125°	546	475	294	146	124	479
135°	602	545	390	242	192	464
145°	630	586	466	344	294	394
155°	636	610	521	432	394	294
165°	623	607	559	502	478	177
175°	586	588	576	550	537	57
180°	569	569	569	569	569	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9
2.5°	736.7	739.9	739.1	738.5	745.6	739.3	739.9	739.0	735.9
5°	739.9	737.9	738.9	738.0	743.0	737.0	737.9	734.8	734.8
7.5°	736.7	733.5	734.4	733.7	738.1	731.3	730.2	726.4	730.0
10°	731.8	727.8	728.7	728.9	734.8	724.9	723.6	720.6	722.6
12.5°	725.3	722.9	723.0	721.6	730.0	716.8	716.3	714.1	714.5
15°	712.4	715.4	715.5	708.6	719.6	703.7	703.3	703.2	699.2
17.5°	697.2	701.4	704.9	696.1	703.5	690.2	689.9	686.3	681.5
20°	689.0	690.0	695.1	687.1	692.1	681.1	680.9	671.7	671.7
22.5°	677.6	677.8	683.7	674.9	679.9	668.9	669.5	658.7	659.5
25°	659.5	658.5	661.6	655.5	659.5	649.6	650.4	639.2	640.2
27.5°	637.1	638.3	643.0	633.8	639.8	627.6	628.0	617.8	616.4
30°	620.8	622.8	630.0	620.0	625.9	613.0	611.7	601.4	598.5
32.5°	603.7	605.7	612.9	605.3	610.5	598.3	595.4	583.5	581.4
35°	577.1	579.1	586.2	582.2	584.2	572.3	568.9	556.7	553.7
37.5°	550.0	552.0	557.9	555.1	556.9	544.4	539.6	528.8	526.6
40°	531.3	533.3	538.4	536.4	537.4	526.4	520.1	510.9	507.9
42.5°	513.4	514.6	518.9	515.3	517.8	507.7	500.5	491.3	486.7
45°	483.4	483.4	489.6	485.6	488.5	478.6	470.2	459.9	454.9
47.5°	452.5	450.7	457.8	456.4	457.8	447.1	438.7	428.0	424.4
50°	430.5	429.5	436.6	437.6	436.6	426.7	418.3	406.1	404.1
52.5°	406.9	408.3	413.8	414.8	414.6	404.7	395.5	384.1	382.1
55°	373.5	375.5	380.7	381.6	380.7	371.7	362.3	350.1	348.1
57.5°	338.3	343.1	347.5	348.5	349.1	339.5	327.9	318.7	314.5
60°	315.5	319.5	324.7	325.7	324.7	316.7	304.3	295.0	290.1
62.5°	292.7	295.1	300.2	302.8	300.2	292.3	279.9	271.5	269.7
65°	257.5	259.5	264.6	266.7	267.7	256.7	244.3	237.1	233.1
67.5°	219.4	221.8	224.7	227.6	228.8	217.3	207.0	199.4	195.0
70°	197.5	197.5	199.5	201.6	203.6	193.6	184.2	175.0	173.0
72.5°	173.8	173.8	176.7	177.9	178.3	169.2	160.6	152.3	151.9
75°	138.4	138.4	140.5	141.4	139.4	133.5	126.2	119.1	118.1
77.5°	105.2	104.6	106.5	107.3	106.3	99.5	92.4	87.5	86.1
80°	82.4	83.4	84.5	84.5	83.5	77.5	71.2	67.1	64.1
82.5°	61.3	62.3	64.1	64.1	61.5	57.9	52.5	47.6	47.0
85°	32.6	32.6	35.6	34.5	31.6	29.6	26.5	22.4	22.4
87.5°	8.1	8.9	10.6	12.9	9.0	9.8	5.7	3.2	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	1.3	2.1	7.9	8.9	8.1	7.6
95°	2.1	2.1	3.2	10.1	10.1	16.3	22.3	21.7	21.7
97.5°	4.8	5.3	7.4	30.7	22.9	22.3	31.8	35.0	35.3
100°	6.9	7.4	11.7	50.0	33.9	28.8	33.9	41.4	43.0
102.5°	9.4	10.4	18.5	79.0	47.9	34.5	39.9	45.2	46.8
105°	14.3	15.9	38.7	132.3	73.2	45.7	50.4	53.1	53.6
107.5°	21.5	27.3	106.0	186.1	103.9	60.5	63.2	65.0	65.7
110°	29.2	41.6	184.0	218.6	126.8	71.8	70.0	74.8	73.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	49.1	85.6	270.2	245.2	149.7	85.2	76.4	84.1	84.8
115°	137.4	235.9	361.2	283.1	184.6	108.3	86.5	94.0	97.1
117.5°	344.8	410.2	409.1	318.2	218.1	135.6	98.5	102.1	105.7
120°	463.6	473.4	433.3	341.9	239.7	155.2	108.7	107.2	110.3
122.5°	507.7	499.7	451.6	362.7	261.8	175.6	121.9	112.7	115.4
125°	545.8	530.2	475.2	392.4	294.4	205.7	145.9	124.6	124.1
127.5°	566.9	550.6	498.4	418.2	324.3	236.9	173.1	141.5	136.7
130°	577.1	562.0	514.5	433.9	344.2	258.1	193.1	156.3	149.0
132.5°	589.4	573.1	525.9	450.1	363.3	278.1	213.0	174.1	165.6
135°	601.5	586.4	544.7	471.3	390.4	307.4	241.9	203.4	192.5
137.5°	612.3	598.5	561.9	487.9	414.8	336.3	272.4	235.0	221.7
140°	619.5	604.5	569.1	500.7	429.6	354.4	292.8	255.4	245.0
142.5°	622.0	612.8	576.8	511.4	446.2	371.8	313.1	274.5	265.0
145°	629.6	623.4	586.1	524.3	465.7	397.7	344.2	304.2	293.8
147.5°	634.5	625.1	594.7	538.2	484.8	421.0	372.4	334.0	324.4
150°	634.9	627.6	601.5	546.8	497.5	437.9	389.8	353.6	344.8
152.5°	638.3	629.4	604.9	554.0	506.8	452.2	407.2	373.5	363.9
155°	635.9	629.7	610.0	563.4	521.4	470.6	431.7	401.9	393.6
157.5°	635.9	628.3	610.6	570.6	535.4	490.8	454.7	427.0	420.8
160°	631.7	628.6	611.0	575.8	542.6	502.1	469.9	444.8	436.5
162.5°	630.0	624.8	611.9	579.2	549.0	511.4	483.1	459.3	453.1
165°	622.7	618.0	606.8	580.8	559.0	527.9	502.3	481.0	477.9
167.5°	614.3	610.7	603.3	583.4	565.7	540.3	518.7	501.5	497.3
170°	608.4	602.7	599.9	584.7	569.1	547.8	529.3	513.8	509.2
172.5°	598.2	597.5	595.2	581.4	572.1	554.6	539.1	524.9	521.9
175°	586.1	586.1	587.7	579.1	576.0	561.5	550.5	542.0	537.3
177.5°	572.1	572.5	575.9	575.5	575.9	567.6	564.4	556.4	555.5
180°	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1

(END OF REPORT)