

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: P522514

Luminaire Tested: **SQW-F-050U-025D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522514
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-050U-025D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

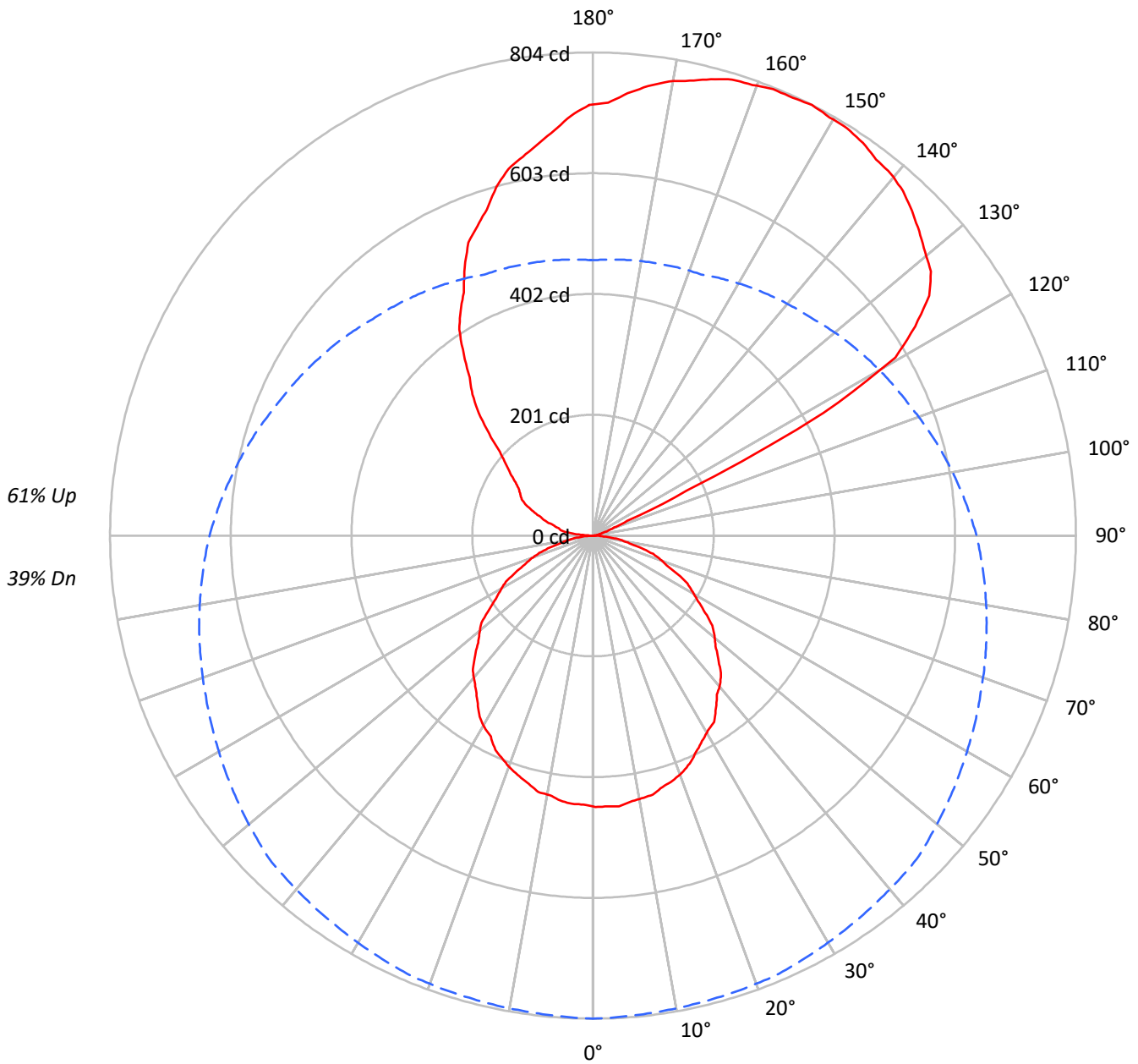
Lumens per Lamp: N/A
Luminaire Lumens: 3249.9 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 31.5
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	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	79	76	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	69	62	56	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	61	54	48	65	56	49	44	46	41	37	37	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	31	28	29	26	23	23	20	18	15
7	56	44	36	31	51	40	33	28	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7298	7298	7298
5°	7342	7374	7261
10°	7296	7312	7181
15°	7254	7305	7137
20°	7251	7268	7062
25°	7108	7197	6983
30°	7029	7103	6842
35°	6958	6997	6682
40°	6871	6871	6555
45°	6667	6804	6393
50°	6581	6707	6229
55°	6390	6559	5968
60°	6168	6361	5748
65°	5960	6151	5463
70°	5618	5901	5146
75°	5178	5365	4616
80°	4556	4742	3905
85°	3335	3705	2594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	1.3
10°-20°	122.1	3.8
20°-30°	183.4	5.6
30°-40°	218.9	6.7
40°-50°	224.9	6.9
50°-60°	201.8	6.2
60°-70°	152.8	4.7
70°-80°	87.3	2.7
80°-90°	22.9	0.7
90°-100°	18.1	0.6
100°-110°	80.3	2.5
110°-120°	230.8	7.1
120°-130°	351.6	10.8
130°-140°	381.7	11.7
140°-150°	365.0	11.2
150°-160°	300.7	9.3
160°-170°	196.8	6.1
170°-180°	68.1	2.1
0°-30°	348.2	10.7
0°-40°	567.2	17.5
0°-60°	993.9	30.6
0°-90°	1256.8	38.7
90°-120°	329.3	10.1
90°-150°	1427.5	43.9
90°-180°	1993.0	61.3
0°-180°	3249.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	452	452	452	452	452	
5°	453	451	455	448	448	43
15°	434	437	437	433	427	123
25°	399	403	404	399	392	184
35°	353	355	355	347	339	221
45°	292	298	298	287	280	226
55°	227	232	233	221	212	203
65°	156	159	161	150	143	153
75°	83	86	86	79	74	88
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	3	4	13	28	27	4
105°	18	49	92	64	68	21
115°	173	455	233	109	122	239
125°	688	599	371	184	156	604
135°	758	686	492	305	243	585
145°	793	738	587	434	370	497
155°	801	768	657	544	496	371
165°	784	764	704	633	602	223
175°	738	740	726	694	677	71
180°	717	717	717	717	717	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0
2.5°	451.2	452.0	453.6	451.3	454.4	451.3	452.0	450.3	448.0
5°	453.0	451.0	451.0	451.1	455.0	450.1	448.0	447.0	448.0
7.5°	447.4	447.8	447.6	447.3	451.6	444.0	447.0	444.0	444.4
10°	445.0	443.0	446.0	444.0	446.0	443.1	443.0	440.0	438.0
12.5°	442.6	441.4	442.8	439.3	445.2	437.6	436.6	436.0	436.4
15°	434.0	436.9	437.0	434.1	437.0	430.2	433.0	429.0	427.0
17.5°	429.2	426.3	427.6	425.3	428.6	422.9	422.6	418.4	419.0
20°	422.0	419.1	422.0	418.1	423.0	414.2	417.0	412.0	411.0
22.5°	412.4	411.8	415.6	412.4	413.4	408.5	408.2	402.4	401.4
25°	399.0	400.0	403.0	398.1	404.0	396.2	399.0	390.0	392.0
27.5°	387.4	387.6	391.0	388.6	389.8	383.7	384.0	376.4	375.0
30°	377.0	378.0	383.0	379.0	381.0	374.2	376.0	366.0	367.0
32.5°	369.8	367.6	371.8	367.9	371.4	364.6	364.8	357.2	355.8
35°	353.0	353.0	355.0	355.0	355.0	348.2	347.0	340.0	339.0
37.5°	335.6	334.8	341.6	336.5	338.8	333.1	331.0	324.2	323.0
40°	326.0	322.1	328.0	326.0	326.0	321.1	319.0	313.0	311.0
42.5°	312.4	311.6	316.0	314.9	317.2	309.2	307.0	300.2	299.0
45°	292.0	293.0	298.0	296.0	298.0	293.1	287.0	282.0	280.0
47.5°	274.8	273.2	278.0	277.8	279.8	272.4	269.6	262.0	261.6
50°	262.0	262.0	266.0	265.0	267.0	261.1	256.0	250.0	248.0
52.5°	249.2	247.6	252.4	252.2	252.6	247.5	242.4	237.2	236.0
55°	227.0	228.0	232.0	232.0	233.0	228.1	221.0	214.9	212.0
57.5°	206.2	205.6	209.4	210.6	210.6	205.7	199.4	194.4	193.2
60°	191.0	192.0	195.0	197.0	197.0	192.1	185.0	180.0	178.0
62.5°	176.6	176.8	180.6	181.8	183.4	177.7	171.4	166.4	164.4
65°	156.0	155.0	159.0	161.0	161.0	156.1	150.0	145.0	143.0
67.5°	132.6	134.0	137.2	138.4	139.4	133.5	127.6	124.4	123.4
70°	119.0	118.0	122.0	124.0	125.0	119.1	114.0	110.0	109.0
72.5°	104.6	104.4	107.6	109.6	109.8	103.9	99.6	96.3	93.8
75°	83.0	84.0	86.0	86.0	86.0	82.1	79.0	76.0	74.0
77.5°	61.8	62.8	64.6	66.4	65.4	61.9	58.8	55.8	54.0
80°	49.0	50.0	51.0	52.0	51.0	49.0	46.0	43.0	42.0
82.5°	36.2	36.4	39.0	39.2	38.2	36.2	34.0	31.0	30.8
85°	18.0	19.0	21.0	21.0	20.0	19.0	17.0	15.0	14.0
87.5°	4.0	4.8	6.4	8.0	6.4	6.4	4.8	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°	0.5	0.5	1.1	1.6	2.7	10.0	11.2	10.1	9.6
95°	2.7	2.7	4.0	12.7	12.7	20.5	28.1	27.4	27.4
97.5°	6.0	6.7	9.4	38.7	28.9	28.1	40.1	44.1	44.5
100°	8.7	9.3	14.7	63.0	42.8	36.2	42.8	52.2	54.1
102.5°	11.9	13.1	23.3	99.5	60.4	43.4	50.3	57.0	58.9
105°	18.0	20.0	48.8	166.7	92.2	57.6	63.5	66.8	67.5
107.5°	27.1	34.4	133.5	234.5	130.8	76.2	79.7	81.9	82.7
110°	36.8	52.4	231.9	275.4	159.7	90.5	88.2	94.2	92.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	61.9	107.9	340.4	308.9	188.6	107.3	96.2	106.0	106.8
115°	173.1	297.2	455.1	356.7	232.6	136.5	108.9	118.4	122.3
117.5°	434.4	516.8	515.5	400.9	274.8	170.9	124.2	128.7	133.1
120°	584.1	596.5	546.0	430.8	302.1	195.5	137.0	135.1	139.0
122.5°	639.7	629.6	569.0	457.0	329.9	221.3	153.6	142.0	145.4
125°	687.6	668.0	598.8	494.4	370.9	259.2	183.8	157.0	156.4
127.5°	714.2	693.7	627.9	526.8	408.6	298.5	218.1	178.3	172.3
130°	727.1	708.1	648.2	546.7	433.7	325.2	243.2	196.9	187.8
132.5°	742.6	722.1	662.6	567.1	457.8	350.3	268.4	219.3	208.6
135°	757.8	738.9	686.3	593.8	491.8	387.3	304.7	256.3	242.6
137.5°	771.4	754.1	708.0	614.7	522.6	423.7	343.2	296.1	279.3
140°	780.5	761.6	717.0	630.8	541.3	446.5	368.9	321.8	308.7
142.5°	783.7	772.1	726.7	644.3	562.1	468.4	394.5	345.9	333.9
145°	793.2	785.4	738.4	660.6	586.7	501.1	433.7	383.3	370.2
147.5°	799.4	787.6	749.3	678.1	610.8	530.4	469.3	420.9	408.7
150°	799.9	790.8	757.8	688.9	626.8	551.7	491.2	445.5	434.4
152.5°	804.2	792.9	762.1	698.0	638.6	569.7	513.1	470.6	458.4
155°	801.2	793.4	768.5	709.8	656.9	592.9	544.0	506.3	495.8
157.5°	801.2	791.6	769.3	719.0	674.5	618.3	572.8	538.0	530.2
160°	795.9	792.0	769.8	725.4	683.6	632.7	592.1	560.4	550.0
162.5°	793.8	787.2	770.9	729.8	691.6	644.3	608.6	578.7	570.8
165°	784.5	778.7	764.5	731.8	704.3	665.1	632.8	606.0	602.1
167.5°	774.0	769.4	760.1	735.0	712.8	680.7	653.6	631.9	626.6
170°	766.5	759.3	755.8	736.6	717.0	690.3	666.9	647.4	641.5
172.5°	753.7	752.7	749.9	732.5	720.8	698.7	679.2	661.4	657.6
175°	738.4	738.4	740.4	729.6	725.7	707.4	693.7	682.8	676.9
177.5°	720.8	721.3	725.6	725.1	725.6	715.1	711.2	701.0	699.9
180°	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0

(END OF REPORT)