

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: P522518

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

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522518
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-050D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

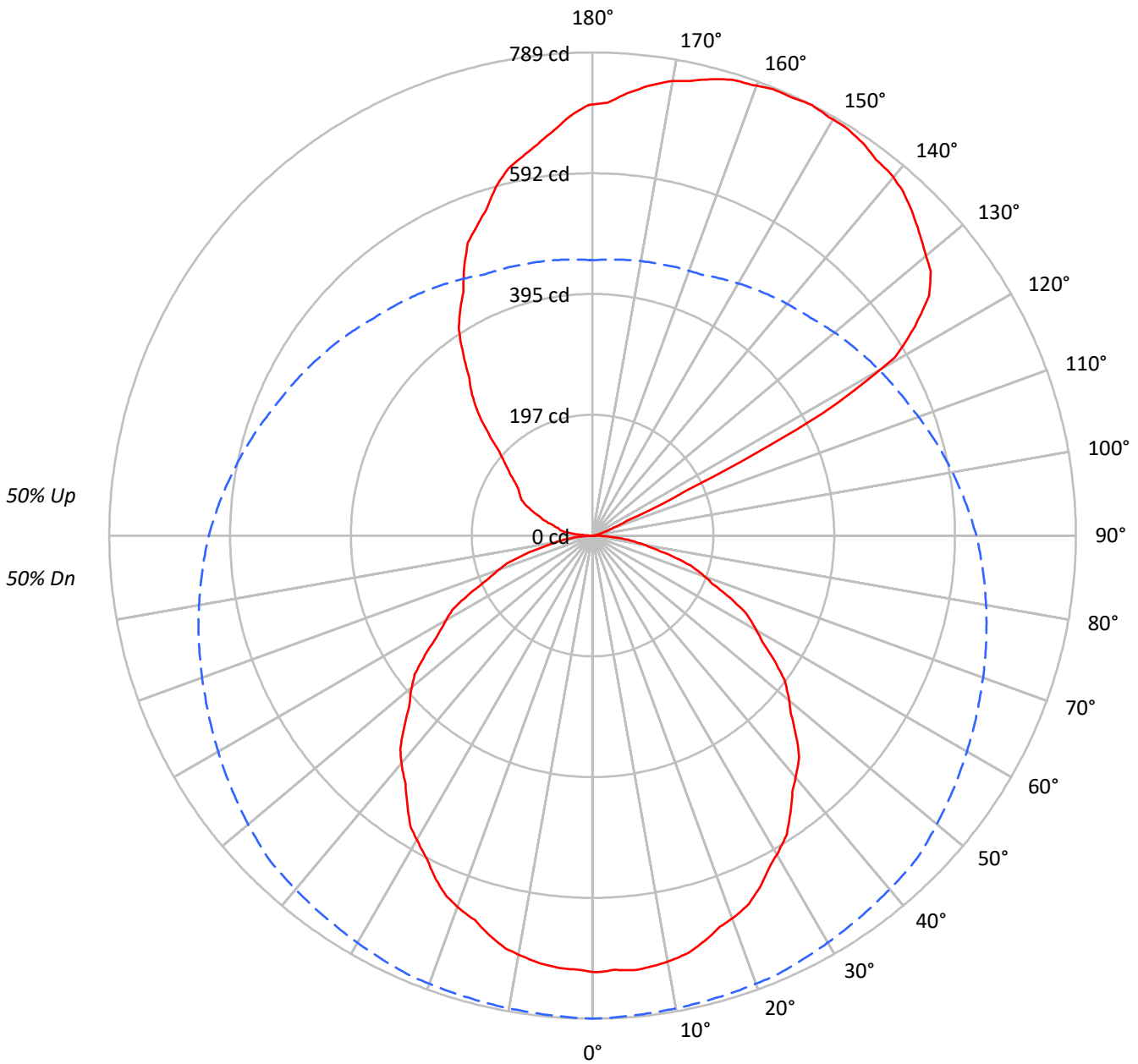
Lumens per Lamp: N/A
Luminaire Lumens: 3941.3 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 38.5
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	44	42	40	35
3	81	71	64	58	74	66	60	54	56	51	47	47	43	40	39	36	34	30
4	74	63	55	49	68	59	51	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	39	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	20	17
8	54	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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	1.7
10°-20°	192.8	4.9
20°-30°	290.0	7.4
30°-40°	346.2	8.8
40°-50°	355.4	9.0
50°-60°	319.4	8.1
60°-70°	242.2	6.1
70°-80°	136.6	3.5
80°-90°	35.5	0.9
90°-100°	17.8	0.5
100°-110°	78.8	2.0
110°-120°	226.5	5.7
120°-130°	345.0	8.8
130°-140°	374.5	9.5
140°-150°	358.1	9.1
150°-160°	295.0	7.5
160°-170°	193.1	4.9
170°-180°	66.8	1.7
0°-30°	550.4	14.0
0°-40°	896.5	22.7
0°-60°	1571.4	39.9
0°-90°	1985.6	50.4
90°-120°	323.1	8.2
90°-150°	1400.7	35.5
90°-180°	1956.0	49.6
0°-180°	3941.3	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°	3	4	12	28	27	4
105°	18	48	90	62	66	21
115°	170	446	228	107	120	235
125°	675	588	364	180	153	592
135°	744	673	483	299	238	574
145°	778	725	576	426	363	488
155°	786	754	645	534	486	364
165°	770	750	691	621	591	218
175°	725	726	712	681	664	70
180°	704	704	704	704	704	



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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°	0.5	0.5	1.0	1.6	2.6	9.8	11.0	10.0	9.4
95°	2.6	2.6	3.9	12.5	12.5	20.2	27.5	26.9	26.9
97.5°	5.9	6.5	9.2	37.9	28.3	27.6	39.3	43.3	43.7
100°	8.5	9.2	14.4	61.8	42.0	35.6	42.0	51.2	53.1
102.5°	11.7	12.8	22.8	97.6	59.3	42.6	49.3	55.9	57.8
105°	17.7	19.6	47.9	163.6	90.5	56.5	62.3	65.6	66.2
107.5°	26.6	33.8	131.0	230.1	128.4	74.8	78.2	80.4	81.2
110°	36.1	51.5	227.5	270.2	156.7	88.8	86.6	92.4	91.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	60.7	105.9	334.0	303.1	185.0	105.3	94.4	104.0	104.8
115°	169.8	291.6	446.5	350.0	228.2	133.9	106.9	116.1	120.0
117.5°	426.2	507.1	505.8	393.4	269.6	167.7	121.8	126.3	130.6
120°	573.1	585.3	535.7	422.7	296.4	191.9	134.4	132.5	136.4
122.5°	627.6	617.8	558.3	448.4	323.7	217.1	150.7	139.3	142.7
125°	674.7	655.5	587.5	485.1	363.9	254.3	180.3	154.1	153.4
127.5°	700.8	680.7	616.1	516.9	400.9	292.9	214.0	174.9	169.0
130°	713.4	694.8	636.0	536.5	425.6	319.1	238.7	193.2	184.3
132.5°	728.6	708.5	650.2	556.5	449.2	343.8	263.3	215.2	204.7
135°	743.6	725.0	673.4	582.6	482.6	380.0	299.0	251.5	238.0
137.5°	756.9	739.9	694.7	603.2	512.8	415.7	336.8	290.5	274.1
140°	765.9	747.3	703.6	619.0	531.1	438.2	361.9	315.8	302.9
142.5°	769.0	757.6	713.0	632.2	551.6	459.6	387.1	339.4	327.6
145°	778.3	770.6	724.6	648.2	575.7	491.7	425.6	376.1	363.3
147.5°	784.4	772.8	735.2	665.3	599.3	520.5	460.4	413.0	401.0
150°	784.9	775.9	743.6	676.0	615.0	541.3	481.9	437.1	426.2
152.5°	789.1	778.0	747.8	684.9	626.6	559.0	503.4	461.7	449.8
155°	786.2	778.5	754.1	696.5	644.6	581.7	533.7	496.8	486.5
157.5°	786.2	776.7	754.8	705.5	661.9	606.7	562.1	527.9	520.2
160°	780.9	777.1	755.4	711.8	670.8	620.8	581.0	549.9	539.6
162.5°	778.8	772.4	756.4	716.1	678.7	632.2	597.2	567.8	560.1
165°	769.8	764.0	750.1	718.0	691.1	652.6	621.0	594.6	590.8
167.5°	759.4	754.9	745.8	721.2	699.4	668.0	641.3	620.0	614.8
170°	752.1	745.0	741.6	722.8	703.6	677.3	654.4	635.2	629.5
172.5°	739.5	738.6	735.8	718.8	707.2	685.6	666.5	648.9	645.2
175°	724.6	724.6	726.5	715.9	712.1	694.1	680.6	670.0	664.2
177.5°	707.2	707.8	712.0	711.4	712.0	701.7	697.8	687.8	686.8
180°	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6

(END OF REPORT)