

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: P522341

Luminaire Tested: **SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522341
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

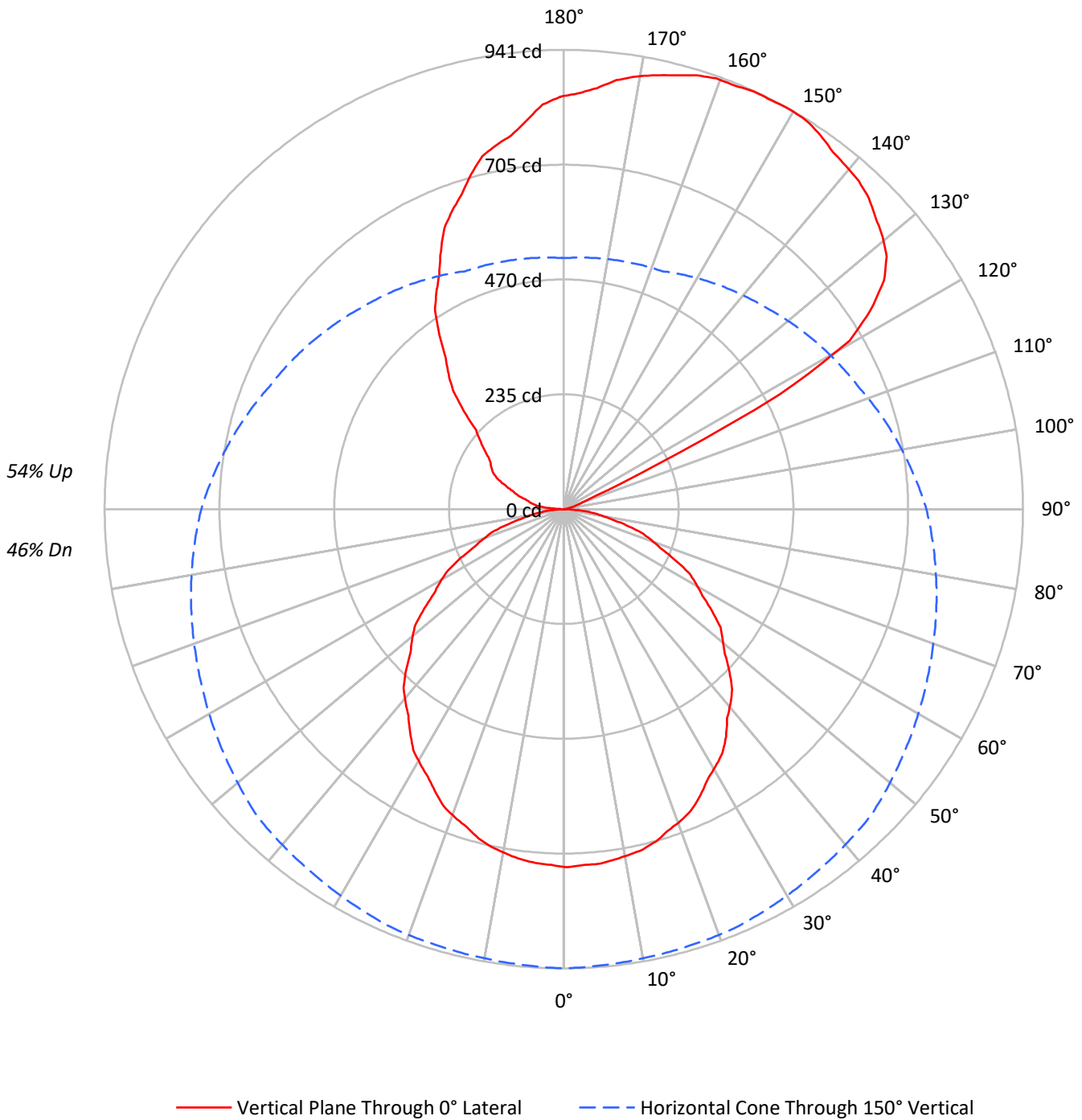
Lumens per Lamp: N/A
Luminaire Lumens: 4402.5 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 38.9
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





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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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	45	44	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11841	11841	11841
5°	11835	11953	11784
10°	11817	11937	11732
15°	11804	11873	11646
20°	11720	11809	11503
25°	11574	11685	11313
30°	11410	11566	11156
35°	11280	11424	10949
40°	11070	11268	10760
45°	10869	11109	10510
50°	10590	10906	10248
55°	10367	10660	9866
60°	10069	10440	9494
65°	9513	9990	8951
70°	8988	9531	8346
75°	8291	8746	7636
80°	7197	7680	6416
85°	5428	6002	4854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.6
10°-20°	198.3	4.5
20°-30°	298.2	6.8
30°-40°	356.1	8.1
40°-50°	366.3	8.3
50°-60°	329.6	7.5
60°-70°	249.2	5.7
70°-80°	141.7	3.2
80°-90°	37.5	0.9
90°-100°	22.2	0.5
100°-110°	96.1	2.2
110°-120°	274.1	6.2
120°-130°	416.8	9.5
130°-140°	450.8	10.2
140°-150°	430.7	9.8
150°-160°	354.2	8.0
160°-170°	231.5	5.3
170°-180°	80.1	1.8
0°-30°	565.9	12.9
0°-40°	922.0	20.9
0°-60°	1617.8	36.7
0°-90°	2046.2	46.5
90°-120°	392.4	8.9
90°-150°	1690.6	38.4
90°-180°	2356.0	53.5
0°-180°	4402.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	733	733	733	733	733	
5°	730	730	738	730	727	69
15°	706	707	710	702	697	199
25°	650	656	656	646	635	299
35°	572	578	580	567	556	357
45°	476	482	486	471	460	367
55°	368	376	379	364	350	329
65°	249	256	262	246	234	248
75°	133	137	140	130	122	140
85°	29	34	32	29	26	35
90°	0	0	0	0	0	1
95°	4	5	15	36	34	5
105°	22	57	111	76	82	26
115°	202	538	277	132	149	278
125°	806	709	444	218	187	708
135°	892	807	584	362	287	687
145°	929	870	695	515	439	582
155°	940	898	776	644	585	434
165°	918	898	832	746	711	261
175°	864	867	852	821	799	84
180°	844	844	844	844	844	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4
2.5°	730.0	732.5	732.5	731.8	738.4	731.8	733.4	731.6	729.2
5°	730.2	730.2	730.2	729.4	737.5	728.3	730.2	727.1	727.1
7.5°	725.8	726.0	726.9	724.2	733.2	722.9	724.8	721.5	722.3
10°	720.8	721.8	721.9	720.0	728.1	717.9	719.8	715.6	715.6
12.5°	715.8	716.0	716.8	714.1	722.3	711.2	713.1	708.9	708.0
15°	706.2	706.2	707.2	703.2	710.3	700.1	702.0	696.7	696.7
17.5°	692.1	691.9	694.4	689.2	696.5	685.1	688.8	682.3	680.4
20°	682.1	681.1	685.2	679.1	687.3	675.1	677.9	670.6	669.5
22.5°	669.5	668.5	674.4	668.3	675.6	663.3	666.2	656.4	656.2
25°	649.7	648.6	655.9	649.8	655.9	644.7	646.5	636.0	635.0
27.5°	627.1	627.1	635.7	628.5	635.4	624.2	625.0	614.3	614.3
30°	612.0	612.0	621.4	614.2	620.4	609.1	609.9	598.4	598.4
32.5°	596.1	596.1	603.8	598.3	604.5	593.2	593.2	581.7	581.7
35°	572.3	570.2	578.5	573.4	579.6	568.3	567.0	555.5	555.5
37.5°	543.6	542.6	551.7	548.1	553.0	542.0	539.0	527.9	528.9
40°	525.2	524.2	532.5	530.5	534.6	524.4	518.9	509.5	510.5
42.5°	505.9	504.1	512.4	511.3	515.3	505.1	500.5	490.2	490.4
45°	476.0	476.0	482.3	482.4	486.5	475.2	470.8	460.3	460.3
47.5°	444.2	444.4	450.9	451.2	455.1	445.3	440.4	429.1	428.9
50°	421.6	422.6	430.0	431.1	434.2	426.0	419.5	409.0	408.0
52.5°	402.4	400.9	408.2	410.1	412.4	404.2	397.8	387.3	386.2
55°	368.3	369.3	375.6	378.7	378.7	371.6	364.1	353.5	350.5
57.5°	334.4	335.8	340.8	344.8	345.9	337.9	330.2	320.7	316.6
60°	311.8	310.7	319.1	322.2	323.3	316.1	307.6	298.1	294.0
62.5°	287.5	288.1	294.0	298.8	299.8	291.9	284.1	272.1	268.9
65°	249.0	252.1	256.3	259.5	261.5	255.4	245.8	236.4	234.3
67.5°	213.8	215.9	220.1	225.0	226.2	219.2	210.7	202.5	200.2
70°	190.4	192.4	196.7	199.9	201.9	195.8	187.3	179.9	176.8
72.5°	167.0	169.0	172.4	175.6	177.6	171.5	163.8	157.3	155.0
75°	132.9	134.9	137.0	139.2	140.2	136.1	129.7	123.4	122.4
77.5°	99.2	101.2	103.6	106.3	105.2	102.4	96.2	92.0	90.8
80°	77.4	79.5	82.6	83.7	82.6	80.6	75.3	71.1	69.0
82.5°	57.3	59.4	62.6	62.7	60.9	60.5	56.1	52.7	51.5
85°	29.3	31.3	33.5	34.5	32.4	32.4	29.3	26.2	26.2
87.5°	5.9	7.5	10.0	12.5	10.0	10.9	8.4	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	2.3	3.4	12.4	13.8	12.0	12.0
95°	3.6	3.6	5.0	15.8	15.1	25.6	35.8	33.7	33.7
97.5°	7.3	8.0	11.5	46.6	35.1	34.1	48.5	53.9	54.9
100°	10.8	11.5	17.2	76.2	52.3	44.6	53.0	63.1	65.2
102.5°	14.8	16.0	27.5	119.8	73.5	52.4	60.5	69.5	72.1
105°	22.2	24.3	56.6	200.8	111.1	68.4	76.0	79.6	81.7
107.5°	33.0	41.5	152.5	282.2	157.7	90.3	98.4	97.8	99.6
110°	44.4	62.0	263.8	326.7	192.1	107.3	107.5	113.2	111.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	73.7	123.2	393.4	369.5	226.5	127.7	116.1	128.8	129.5
115°	202.2	347.2	537.6	429.5	277.4	163.9	131.9	144.2	149.1
117.5°	501.2	604.1	611.5	482.8	328.2	204.3	150.0	155.4	161.9
120°	679.6	700.6	645.9	515.5	362.0	233.0	164.9	162.9	169.9
122.5°	749.5	742.0	674.0	546.0	395.3	263.5	183.2	172.0	176.8
125°	805.7	786.1	709.0	588.1	443.7	309.2	217.9	187.1	187.1
127.5°	839.3	816.4	741.1	625.5	487.5	355.3	259.6	211.6	205.0
130°	858.8	834.3	760.6	651.4	516.1	385.1	288.9	232.7	222.2
132.5°	873.7	851.4	778.9	671.7	544.2	414.3	318.1	259.0	241.7
135°	891.8	872.8	807.2	702.7	583.5	458.1	362.0	304.3	286.7
137.5°	903.4	888.7	832.6	728.2	619.9	501.5	406.3	348.3	332.5
140°	909.7	897.8	845.2	743.2	642.3	529.5	437.3	378.2	363.4
142.5°	916.0	906.3	854.3	760.0	664.1	557.4	467.7	408.5	392.7
145°	929.0	917.8	869.5	780.2	695.3	596.5	514.7	452.7	438.7
147.5°	938.2	924.8	882.0	801.8	724.9	631.9	557.9	498.0	484.2
150°	940.5	926.5	888.9	813.5	742.7	653.6	584.2	527.3	514.0
152.5°	938.8	928.1	894.1	823.3	757.6	674.7	608.3	555.4	543.2
155°	939.8	930.0	898.2	836.6	776.4	704.2	644.5	597.6	585.0
157.5°	935.5	929.0	901.1	846.8	793.7	730.5	677.6	638.1	625.4
160°	935.5	925.7	901.1	852.7	805.7	747.6	698.2	662.8	652.3
162.5°	929.2	920.5	900.5	856.9	817.2	763.5	717.7	684.7	677.0
165°	917.6	910.6	897.5	862.4	831.5	785.3	745.5	716.0	711.1
167.5°	908.5	898.9	891.8	862.2	841.3	800.9	769.0	744.6	741.8
170°	898.2	891.9	886.0	860.6	845.9	812.2	785.7	761.2	758.4
172.5°	885.0	881.5	878.6	859.5	848.8	821.8	800.0	777.8	772.8
175°	864.5	867.3	866.7	857.2	851.6	834.1	820.8	804.9	798.6
177.5°	851.9	850.8	853.6	851.9	851.3	840.7	837.0	826.2	829.5
180°	844.5	844.5	844.5	844.5	844.5	844.5	844.5	844.5	844.5

(END OF REPORT)