

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: P522297

Luminaire Tested: **SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522297
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-025U-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3668.5 lumens
Efficiency: N/A
Efficacy: 103.3 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

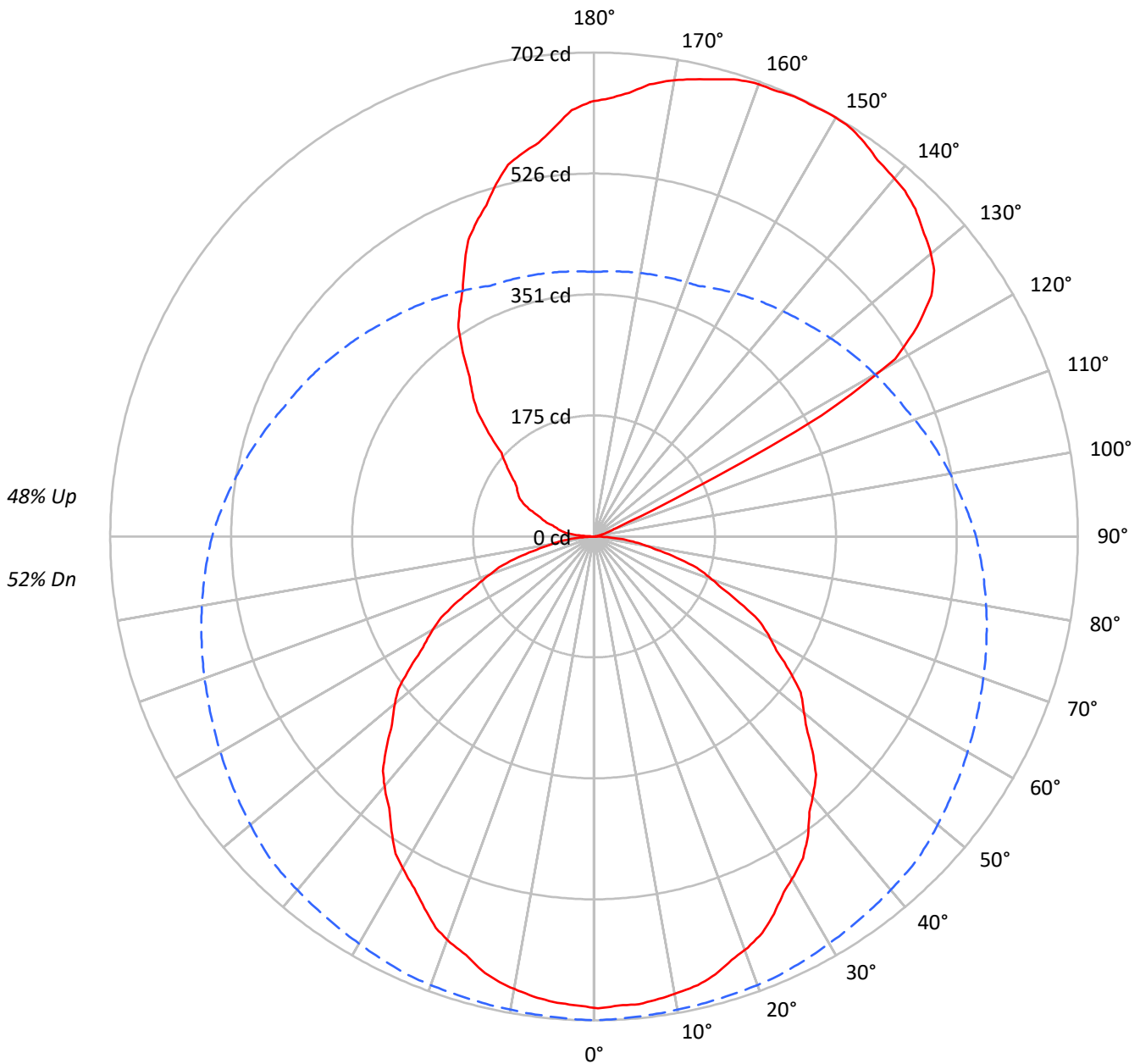
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 150° 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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49	44
2	89	82	75	70	82	76	70	66	65	61	57	54	51	49	45	43	41	36
3	81	72	64	58	75	67	60	55	57	52	48	48	44	41	40	37	35	31
4	74	63	55	49	68	59	52	46	50	45	41	43	38	35	35	32	30	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	32	28	26	23
6	63	51	42	36	58	47	40	34	41	35	30	34	30	26	29	25	23	20
7	58	46	37	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	33	28	50	39	32	27	33	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11053	11053	11053
5°	11047	11159	11000
10°	11032	11144	10952
15°	11019	11084	10872
20°	10940	11024	10739
25°	10803	10908	10561
30°	10651	10797	10414
35°	10529	10663	10222
40°	10332	10517	10045
45°	10145	10369	9812
50°	9887	10181	9568
55°	9678	9951	9208
60°	9397	9746	8861
65°	8879	9326	8359
70°	8389	8899	7789
75°	7735	8166	7130
80°	6722	7169	5997
85°	5057	5613	4520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	1.8
10°-20°	185.1	5.0
20°-30°	278.4	7.6
30°-40°	332.4	9.1
40°-50°	341.9	9.3
50°-60°	307.6	8.4
60°-70°	232.6	6.3
70°-80°	132.3	3.6
80°-90°	35.0	1.0
90°-100°	16.6	0.5
100°-110°	71.7	2.0
110°-120°	204.5	5.6
120°-130°	311.0	8.5
130°-140°	336.4	9.2
140°-150°	321.4	8.8
150°-160°	264.4	7.2
160°-170°	172.7	4.7
170°-180°	59.7	1.6
0°-30°	528.2	14.4
0°-40°	860.6	23.5
0°-60°	1510.2	41.2
0°-90°	1910.1	52.1
90°-120°	292.8	8.0
90°-150°	1261.7	34.4
90°-180°	1758.0	47.9
0°-180°	3668.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	685	685	685	685	685	
5°	682	682	688	682	679	65
15°	659	660	663	655	650	186
25°	606	612	612	604	593	279
35°	534	540	541	529	519	333
45°	444	450	454	440	430	342
55°	344	351	354	340	327	307
65°	232	239	244	230	219	231
75°	124	128	131	121	114	131
85°	27	31	30	27	24	33
90°	0	0	0	0	0	1
95°	3	4	11	27	25	3
105°	17	42	83	57	61	19
115°	151	401	207	98	111	208
125°	601	529	331	163	140	528
135°	666	602	436	270	214	513
145°	693	649	519	384	327	434
155°	701	670	579	481	436	324
165°	685	670	621	556	531	195
175°	645	647	636	612	596	63
180°	630	630	630	630	630	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6
2.5°	681.4	683.7	683.8	683.1	689.3	683.1	684.6	683.0	680.7
5°	681.6	681.6	681.6	680.8	688.5	679.9	681.6	678.7	678.7
7.5°	677.5	677.7	678.5	676.0	684.4	674.8	676.6	673.5	674.2
10°	672.9	673.8	673.8	672.1	679.7	670.1	671.9	668.0	668.0
12.5°	668.2	668.4	669.1	666.6	674.2	663.9	665.6	661.7	660.9
15°	659.2	659.2	660.2	656.4	663.1	653.5	655.3	650.4	650.4
17.5°	646.1	645.9	648.2	643.3	650.2	639.5	643.0	636.9	635.2
20°	636.7	635.8	639.7	634.0	641.6	630.1	632.8	626.0	625.0
22.5°	625.0	624.0	629.5	623.8	630.7	619.2	621.9	612.7	612.5
25°	606.4	605.5	612.3	606.6	612.3	601.8	603.5	593.7	592.8
27.5°	585.4	585.4	593.4	586.7	593.2	582.7	583.4	573.4	573.4
30°	571.3	571.3	580.1	573.4	579.1	568.6	569.3	558.6	558.6
32.5°	556.4	556.4	563.7	558.5	564.3	553.8	553.7	543.0	543.0
35°	534.2	532.3	540.0	535.3	541.0	530.5	529.3	518.6	518.6
37.5°	507.4	506.5	515.0	511.6	516.2	505.9	503.1	492.8	493.8
40°	490.2	489.3	497.1	495.2	499.0	489.5	484.4	475.6	476.6
42.5°	472.3	470.5	478.3	477.2	481.1	471.5	467.2	457.6	457.8
45°	444.3	444.3	450.2	450.3	454.1	443.6	439.5	429.7	429.7
47.5°	414.7	414.8	420.9	421.2	424.8	415.6	411.1	400.6	400.4
50°	393.6	394.5	401.4	402.4	405.3	397.6	391.6	381.8	380.9
52.5°	375.6	374.3	381.1	382.9	385.0	377.3	371.3	361.5	360.5
55°	343.8	344.7	350.6	353.5	353.5	346.8	339.8	330.0	327.1
57.5°	312.1	313.4	318.2	321.9	322.9	315.4	308.2	299.3	295.5
60°	291.0	290.1	297.9	300.8	301.8	295.1	287.1	278.2	274.4
62.5°	268.4	268.9	274.4	278.9	279.9	272.4	265.2	254.0	251.0
65°	232.4	235.3	239.3	242.2	244.1	238.4	229.5	220.7	218.8
67.5°	199.6	201.5	205.5	210.0	211.1	204.6	196.7	189.0	186.9
70°	177.7	179.6	183.6	186.6	188.5	182.7	174.8	167.9	165.0
72.5°	155.9	157.8	160.9	163.9	165.8	160.1	152.9	146.8	144.7
75°	124.0	125.9	127.9	129.9	130.9	127.0	121.1	115.2	114.3
77.5°	92.6	94.5	96.7	99.2	98.2	95.6	89.8	85.9	84.8
80°	72.3	74.2	77.1	78.1	77.1	75.2	70.3	66.4	64.5
82.5°	53.5	55.4	58.4	58.6	56.8	56.5	52.3	49.2	48.0
85°	27.3	29.3	31.3	32.2	30.3	30.3	27.3	24.4	24.4
87.5°	5.5	7.0	9.4	11.7	9.4	10.1	7.8	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.7	2.6	9.3	10.3	9.0	9.0
95°	2.7	2.7	3.7	11.8	11.2	19.1	26.7	25.1	25.1
97.5°	5.5	6.0	8.6	34.8	26.2	25.5	36.2	40.2	41.0
100°	8.0	8.5	12.8	56.8	39.1	33.3	39.6	47.1	48.7
102.5°	11.0	12.0	20.5	89.4	54.9	39.1	45.2	51.8	53.8
105°	16.6	18.2	42.3	149.9	82.9	51.0	56.7	59.4	61.0
107.5°	24.6	31.0	113.8	210.6	117.7	67.4	73.4	73.0	74.4
110°	33.2	46.2	196.9	243.8	143.4	80.1	80.2	84.5	82.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	55.0	91.9	293.6	275.8	169.1	95.3	86.7	96.1	96.6
115°	150.9	259.1	401.2	320.5	207.0	122.3	98.4	107.6	111.3
117.5°	374.1	450.8	456.3	360.3	244.9	152.4	111.9	116.0	120.8
120°	507.2	522.8	482.0	384.7	270.2	173.9	123.0	121.6	126.8
122.5°	559.4	553.7	503.0	407.4	295.0	196.6	136.7	128.4	131.9
125°	601.3	586.7	529.1	438.9	331.1	230.7	162.6	139.6	139.6
127.5°	626.3	609.3	553.1	466.8	363.8	265.1	193.8	157.9	153.0
130°	640.9	622.6	567.6	486.1	385.2	287.4	215.6	173.7	165.8
132.5°	652.0	635.4	581.3	501.3	406.2	309.2	237.4	193.3	180.4
135°	665.5	651.4	602.4	524.4	435.5	341.8	270.2	227.1	214.0
137.5°	674.2	663.2	621.3	543.4	462.6	374.2	303.2	259.9	248.1
140°	678.9	670.0	630.7	554.7	479.3	395.1	326.3	282.2	271.2
142.5°	683.6	676.4	637.6	567.2	495.6	416.0	349.0	304.9	293.1
145°	693.3	685.0	648.9	582.2	518.9	445.2	384.1	337.9	327.4
147.5°	700.2	690.1	658.2	598.4	541.0	471.6	416.3	371.7	361.3
150°	701.9	691.4	663.4	607.1	554.2	487.8	436.0	393.5	383.6
152.5°	700.6	692.7	667.2	614.4	565.4	503.5	454.0	414.5	405.4
155°	701.4	694.0	670.3	624.4	579.4	525.5	480.9	446.0	436.5
157.5°	698.1	693.3	672.5	632.0	592.3	545.1	505.7	476.2	466.7
160°	698.1	690.8	672.5	636.4	601.3	557.9	521.1	494.7	486.8
162.5°	693.4	686.9	672.0	639.5	609.9	569.8	535.6	511.0	505.2
165°	684.8	679.5	669.8	643.6	620.6	586.0	556.4	534.4	530.7
167.5°	678.0	670.8	665.5	643.4	627.8	597.7	573.9	555.7	553.6
170°	670.3	665.6	661.2	642.3	631.3	606.2	586.3	568.1	566.0
172.5°	660.5	657.9	655.7	641.5	633.4	613.3	597.0	580.5	576.7
175°	645.2	647.3	646.8	639.7	635.6	622.5	612.5	600.7	596.0
177.5°	635.8	634.9	637.0	635.8	635.3	627.4	624.6	616.6	619.1
180°	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2

(END OF REPORT)