

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: P522296

Luminaire Tested: **SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522296
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

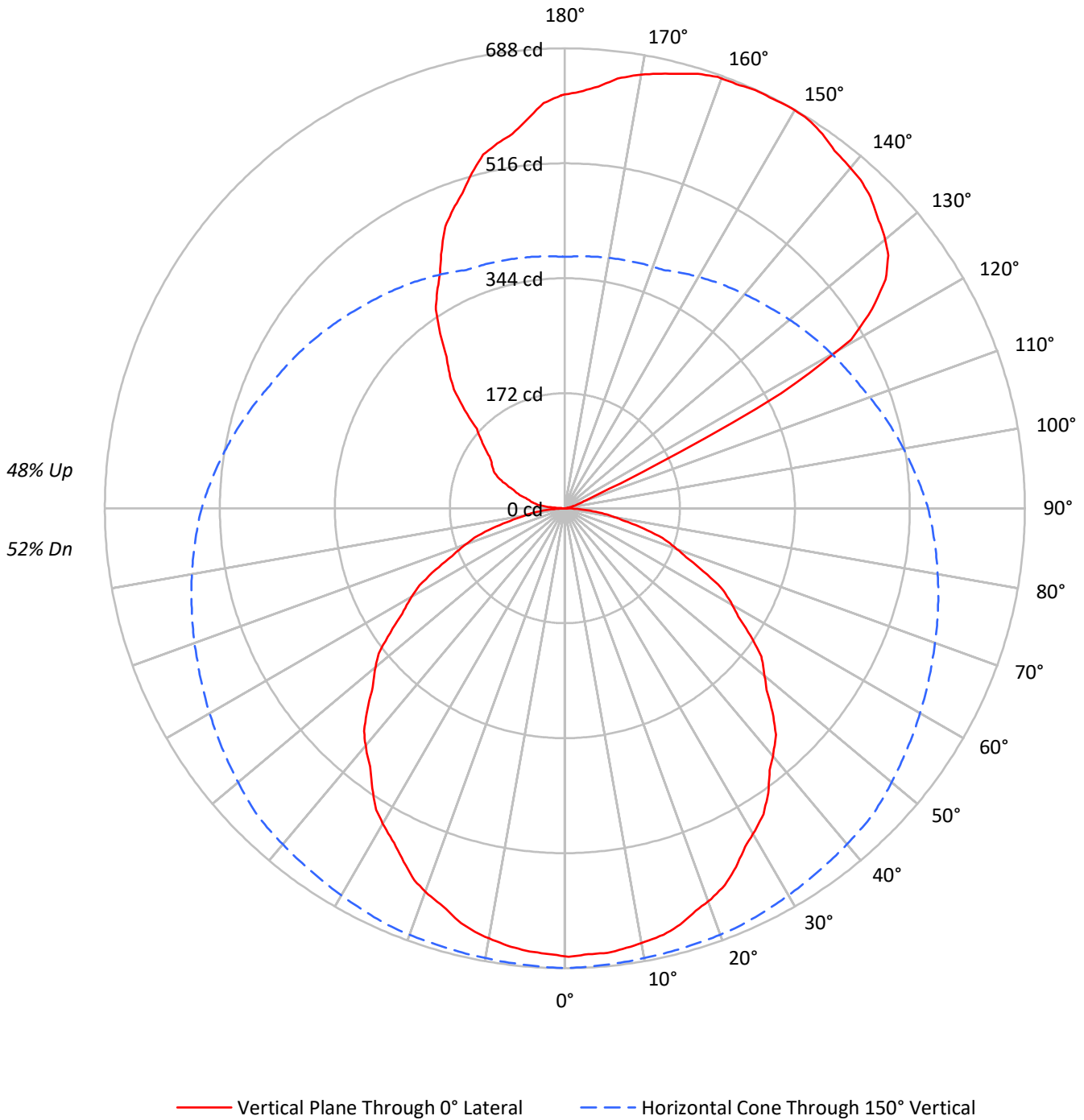
Lumens per Lamp: N/A
Luminaire Lumens: 3594.1 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.4
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				
RC	80					70					50					30				
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°	10829	10829	10829
5°	10823	10932	10776
10°	10808	10917	10729
15°	10795	10858	10651
20°	10718	10801	10521
25°	10584	10687	10345
30°	10435	10577	10204
35°	10314	10447	10013
40°	10123	10304	9841
45°	9939	10159	9613
50°	9686	9972	9372
55°	9481	9748	9022
60°	9206	9545	8680
65°	8699	9138	8187
70°	8219	8719	7633
75°	7580	7997	6981
80°	6583	7029	5867
85°	4965	5502	4428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.8
10°-20°	181.3	5.0
20°-30°	272.8	7.6
30°-40°	325.7	9.1
40°-50°	335.0	9.3
50°-60°	301.4	8.4
60°-70°	227.9	6.3
70°-80°	129.6	3.6
80°-90°	34.3	1.0
90°-100°	16.2	0.5
100°-110°	70.3	2.0
110°-120°	200.4	5.6
120°-130°	304.7	8.5
130°-140°	329.6	9.2
140°-150°	314.9	8.8
150°-160°	259.0	7.2
160°-170°	169.2	4.7
170°-180°	58.5	1.6
0°-30°	517.5	14.4
0°-40°	843.2	23.5
0°-60°	1479.5	41.2
0°-90°	1871.3	52.1
90°-120°	286.9	8.0
90°-150°	1236.0	34.4
90°-180°	1723.0	47.9
0°-180°	3594.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	671	671	671	671	671	
5°	668	668	674	668	665	63
15°	646	647	650	642	637	182
25°	594	600	600	591	581	273
35°	523	529	530	519	508	326
45°	435	441	445	430	421	335
55°	337	344	346	333	320	301
65°	228	234	239	225	214	226
75°	122	125	128	119	112	128
85°	27	31	30	27	24	32
90°	0	0	0	0	0	1
95°	3	4	11	26	25	3
105°	16	41	81	56	60	19
115°	148	393	203	96	109	203
125°	589	518	324	159	137	518
135°	652	590	427	265	210	503
145°	679	636	508	376	321	425
155°	687	657	568	471	428	317
165°	671	656	608	545	520	191
175°	632	634	623	600	584	61
180°	617	617	617	617	617	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7
2.5°	667.6	669.9	669.9	669.3	675.3	669.3	670.7	669.1	666.8
5°	667.8	667.8	667.8	667.0	674.5	666.1	667.8	664.9	664.9
7.5°	663.8	664.0	664.7	662.2	670.5	661.1	662.8	659.8	660.5
10°	659.2	660.1	660.1	658.4	665.9	656.5	658.2	654.4	654.4
12.5°	654.6	654.8	655.6	653.0	660.5	650.4	652.1	648.3	647.5
15°	645.8	645.8	646.8	643.1	649.6	640.3	642.0	637.2	637.2
17.5°	633.0	632.8	635.1	630.3	637.0	626.5	629.9	623.9	622.3
20°	623.8	622.9	626.7	621.1	628.6	617.4	620.0	613.2	612.3
22.5°	612.3	611.4	616.7	611.1	617.9	606.6	609.3	600.3	600.1
25°	594.1	593.2	599.9	594.3	599.9	589.6	591.3	581.7	580.7
27.5°	573.5	573.5	581.3	574.8	581.1	570.8	571.6	561.8	561.8
30°	559.7	559.7	568.3	561.7	567.3	557.1	557.8	547.3	547.3
32.5°	545.1	545.1	552.2	547.2	552.8	542.5	542.5	531.9	531.9
35°	523.3	521.5	529.1	524.4	530.0	519.7	518.6	508.0	508.0
37.5°	497.1	496.2	504.6	501.2	505.7	495.6	492.9	482.8	483.7
40°	480.3	479.3	487.0	485.2	488.9	479.5	474.5	466.0	466.9
42.5°	462.7	461.0	468.6	467.5	471.3	461.9	457.7	448.3	448.5
45°	435.3	435.3	441.1	441.1	444.9	434.6	430.5	421.0	421.0
47.5°	406.2	406.4	412.4	412.6	416.2	407.2	402.8	392.4	392.3
50°	385.6	386.5	393.2	394.2	397.0	389.6	383.7	374.1	373.1
52.5°	368.0	366.7	373.3	375.1	377.1	369.7	363.8	354.2	353.2
55°	336.8	337.7	343.5	346.3	346.3	339.8	332.9	323.3	320.5
57.5°	305.8	307.1	311.7	315.4	316.3	309.0	301.9	293.3	289.5
60°	285.1	284.2	291.8	294.7	295.6	289.1	281.3	272.6	268.8
62.5°	262.9	263.5	268.8	273.3	274.2	266.9	259.8	248.9	245.9
65°	227.7	230.5	234.4	237.3	239.2	233.6	224.8	216.2	214.3
67.5°	195.6	197.4	201.3	205.7	206.8	200.5	192.7	185.2	183.1
70°	174.1	176.0	179.9	182.8	184.7	179.0	171.3	164.5	161.7
72.5°	152.7	154.6	157.7	160.6	162.5	156.8	149.8	143.8	141.8
75°	121.5	123.4	125.3	127.3	128.2	124.5	118.6	112.9	111.9
77.5°	90.7	92.6	94.7	97.2	96.2	93.6	88.0	84.2	83.0
80°	70.8	72.7	75.6	76.5	75.6	73.7	68.9	65.0	63.1
82.5°	52.4	54.3	57.2	57.4	55.7	55.3	51.3	48.2	47.1
85°	26.8	28.7	30.6	31.5	29.7	29.7	26.8	23.9	23.9
87.5°	5.4	6.9	9.2	11.4	9.2	9.9	7.7	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	0.8	1.7	2.5	9.1	10.1	8.8	8.8
95°	2.6	2.6	3.7	11.5	11.0	18.7	26.2	24.6	24.6
97.5°	5.3	5.9	8.4	34.1	25.7	25.0	35.4	39.4	40.1
100°	7.9	8.4	12.6	55.7	38.3	32.6	38.8	46.2	47.7
102.5°	10.8	11.7	20.1	87.6	53.8	38.3	44.2	50.8	52.7
105°	16.2	17.8	41.4	146.8	81.2	50.0	55.6	58.2	59.7
107.5°	24.1	30.4	111.5	206.3	115.3	66.0	71.9	71.5	72.9
110°	32.5	45.3	192.9	238.9	140.5	78.5	78.6	82.8	81.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	53.9	90.1	287.6	270.2	165.6	93.4	84.9	94.1	94.7
115°	147.8	253.9	393.1	314.0	202.8	119.8	96.4	105.4	109.0
117.5°	366.5	441.7	447.1	353.0	239.9	149.3	109.6	113.6	118.3
120°	496.9	512.2	472.2	376.9	264.7	170.4	120.5	119.1	124.2
122.5°	548.0	542.5	492.8	399.2	289.0	192.7	134.0	125.8	129.2
125°	589.1	574.8	518.3	430.0	324.4	226.0	159.3	136.8	136.8
127.5°	613.6	596.9	541.8	457.4	356.4	259.7	189.8	154.7	149.9
130°	627.9	610.0	556.1	476.3	377.4	281.5	211.2	170.2	162.5
132.5°	638.8	622.5	569.5	491.1	397.9	302.9	232.6	189.3	176.7
135°	652.0	638.2	590.2	513.7	426.6	334.9	264.7	222.5	209.6
137.5°	660.5	649.7	608.7	532.4	453.3	366.6	297.1	254.7	243.1
140°	665.1	656.4	617.9	543.4	469.6	387.1	319.7	276.5	265.7
142.5°	669.7	662.6	624.6	555.6	485.5	407.5	341.9	298.7	287.1
145°	679.3	671.1	635.7	570.4	508.4	436.1	376.3	331.0	320.8
147.5°	686.0	676.1	644.9	586.3	530.0	462.0	407.9	364.1	354.0
150°	687.6	677.4	649.9	594.7	543.0	477.9	427.2	385.5	375.8
152.5°	686.4	678.6	653.7	602.0	553.9	493.3	444.8	406.1	397.2
155°	687.1	679.9	656.7	611.7	567.6	514.8	471.2	436.9	427.7
157.5°	684.0	679.3	658.8	619.1	580.3	534.1	495.4	466.6	457.2
160°	684.0	676.8	658.8	623.4	589.1	546.6	510.5	484.6	476.9
162.5°	679.4	673.0	658.4	626.5	597.5	558.2	524.7	500.6	495.0
165°	670.9	665.7	656.2	630.5	608.0	574.1	545.1	523.5	519.9
167.5°	664.3	657.2	652.0	630.4	615.1	585.6	562.3	544.4	542.4
170°	656.7	652.1	647.8	629.2	618.5	593.9	574.4	556.6	554.5
172.5°	647.1	644.5	642.4	628.4	620.6	600.9	584.9	568.7	565.0
175°	632.1	634.1	633.7	626.7	622.6	609.8	600.1	588.5	583.9
177.5°	622.9	622.0	624.1	622.8	622.4	614.6	612.0	604.0	606.5
180°	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4

(END OF REPORT)