

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: P522416

Luminaire Tested: **SQW-F-0U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522416
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-46)
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-050D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

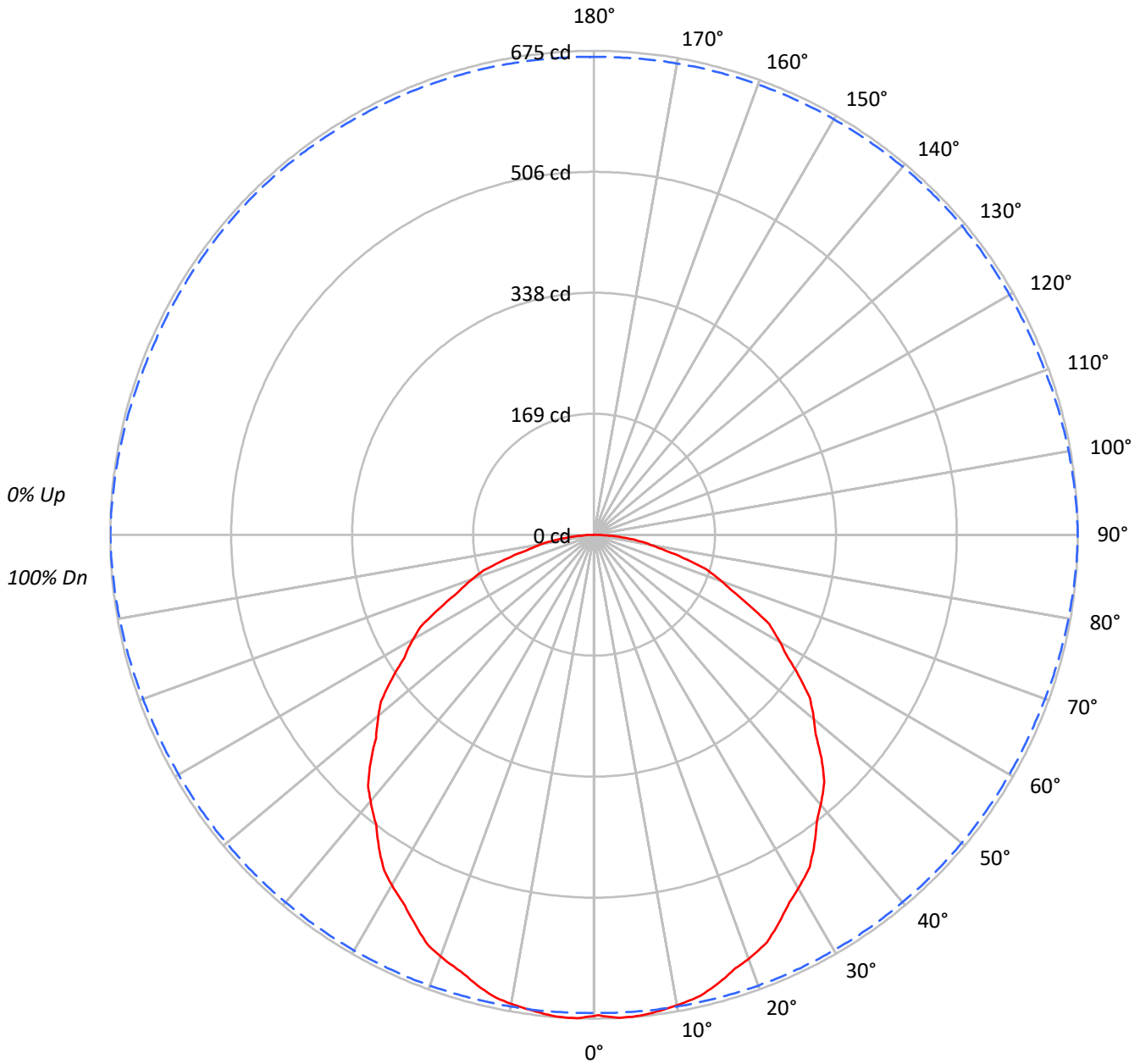
Lumens per Lamp: N/A
Luminaire Lumens: 1871.3 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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 90° Lateral - - - Horizontal Cone Through 2.5° 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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	3.4
10°-20°	181.3	9.7
20°-30°	272.8	14.6
30°-40°	325.7	17.4
40°-50°	335.0	17.9
50°-60°	301.4	16.1
60°-70°	227.9	12.2
70°-80°	129.6	6.9
80°-90°	34.3	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	517.5	27.7
0°-40°	843.2	45.1
0°-60°	1479.5	79.1
0°-90°	1871.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1871.3	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	33
90°	0	0	0	0	0	



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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

(END OF REPORT)