

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: P522568

Luminaire Tested: **SQW-F-0U-050D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522568
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-0U-050D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

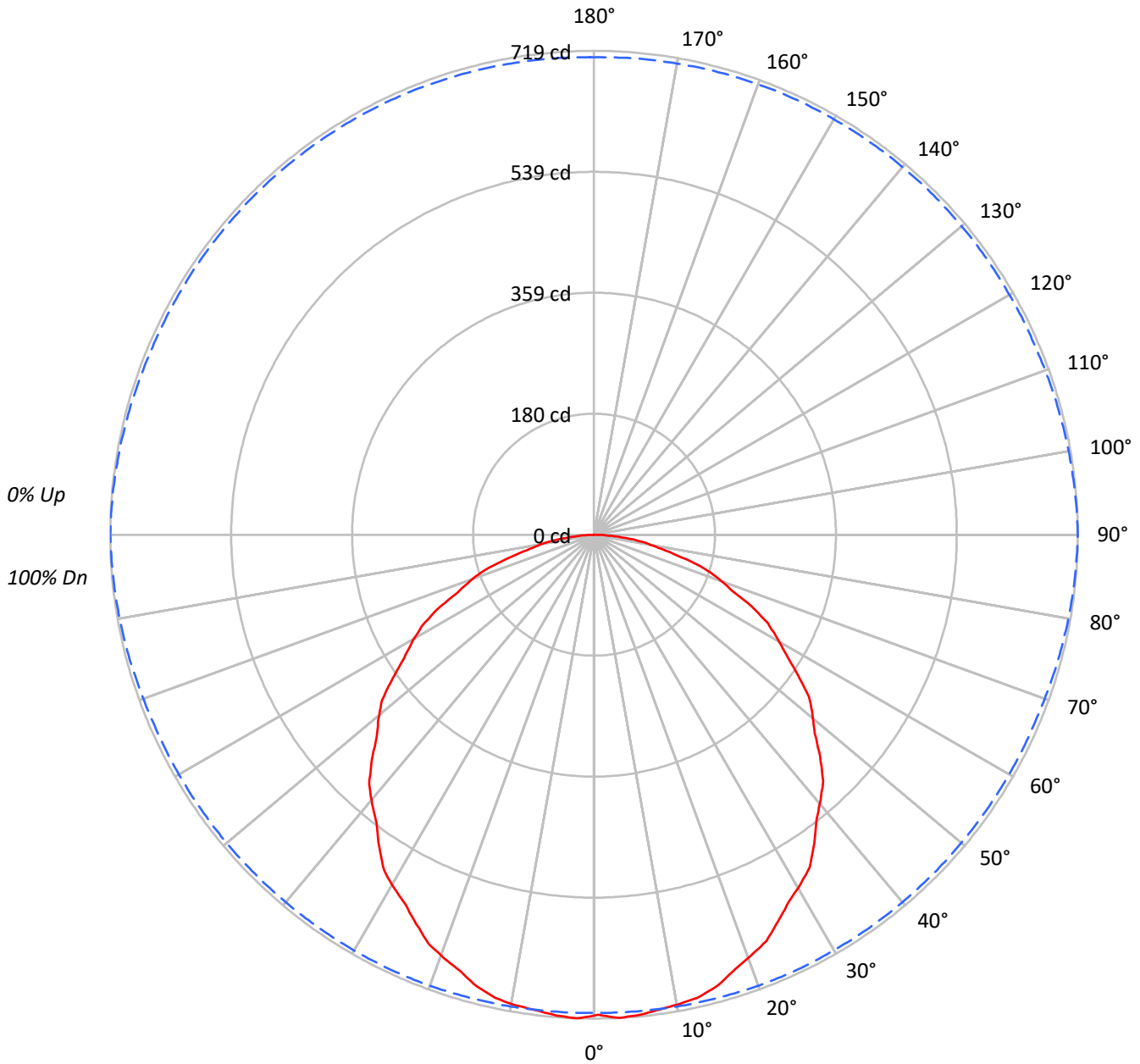
Lumens per Lamp: N/A
Luminaire Lumens: 1985.6 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 21
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	89	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	69	63	72	67	62	70	65	61	59
4	83	71	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	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	32	45	38	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	27	38	31	26	37	31	26	36	30	26	24

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	3.4
10°-20°	192.8	9.7
20°-30°	290.0	14.6
30°-40°	346.2	17.4
40°-50°	355.4	17.9
50°-60°	319.4	16.1
60°-70°	242.2	12.2
70°-80°	136.6	6.9
80°-90°	35.5	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°	550.4	27.7
0°-40°	896.5	45.2
0°-60°	1571.4	79.1
0°-90°	1985.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1985.6	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	38
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°	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

(END OF REPORT)