

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: P522417

Luminaire Tested: **SQW-F-0U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522417
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-0U-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

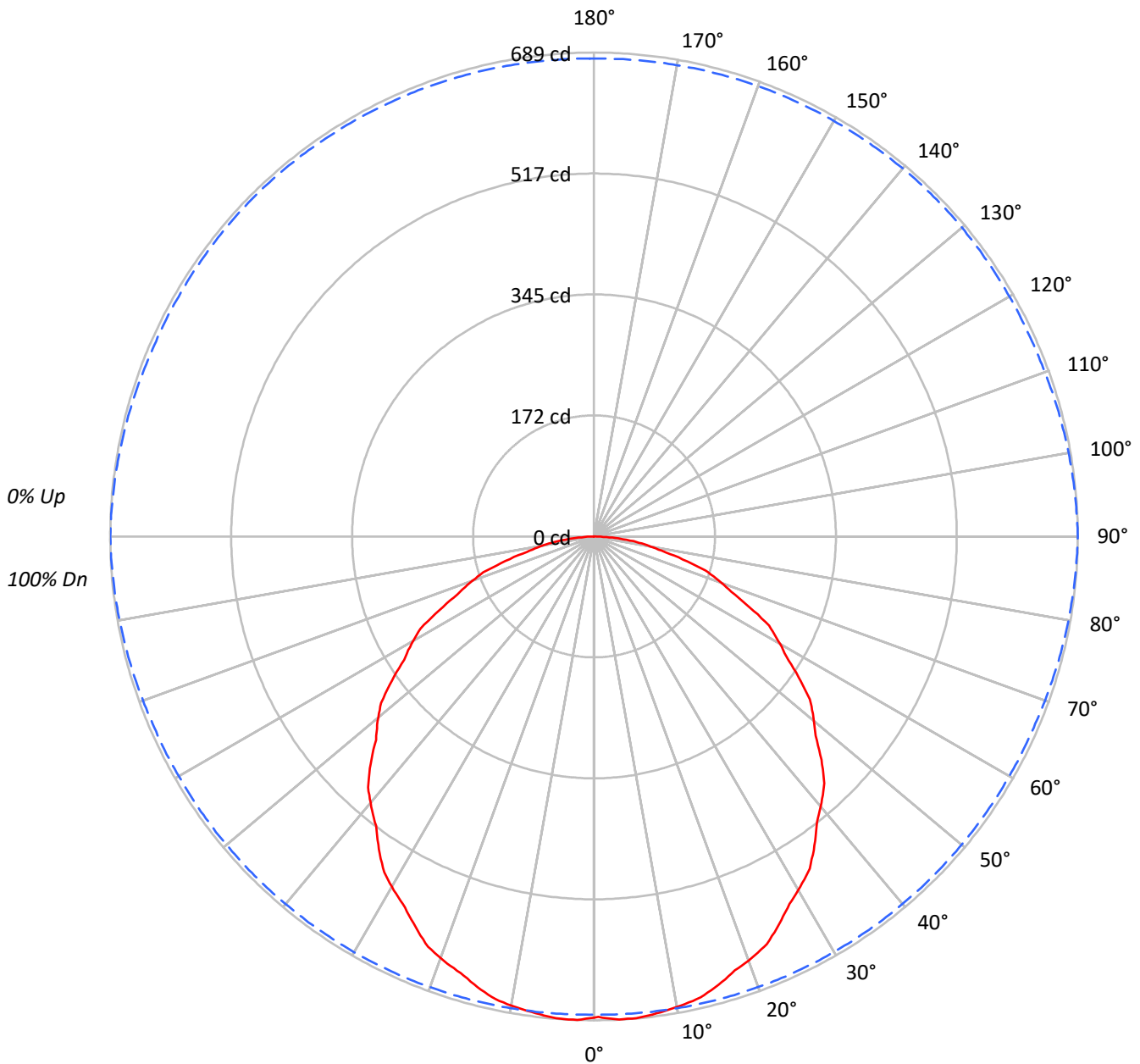
Lumens per Lamp: N/A
Luminaire Lumens: 1910.1 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 21.3
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°	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	3.4
10°-20°	185.1	9.7
20°-30°	278.4	14.6
30°-40°	332.4	17.4
40°-50°	341.9	17.9
50°-60°	307.6	16.1
60°-70°	232.6	12.2
70°-80°	132.3	6.9
80°-90°	35.0	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°	528.2	27.7
0°-40°	860.6	45.1
0°-60°	1510.2	79.1
0°-90°	1910.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.1	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	



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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

(END OF REPORT)