

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: P522412

Luminaire Tested: **SQW-F-0U-025D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522412  
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-025D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

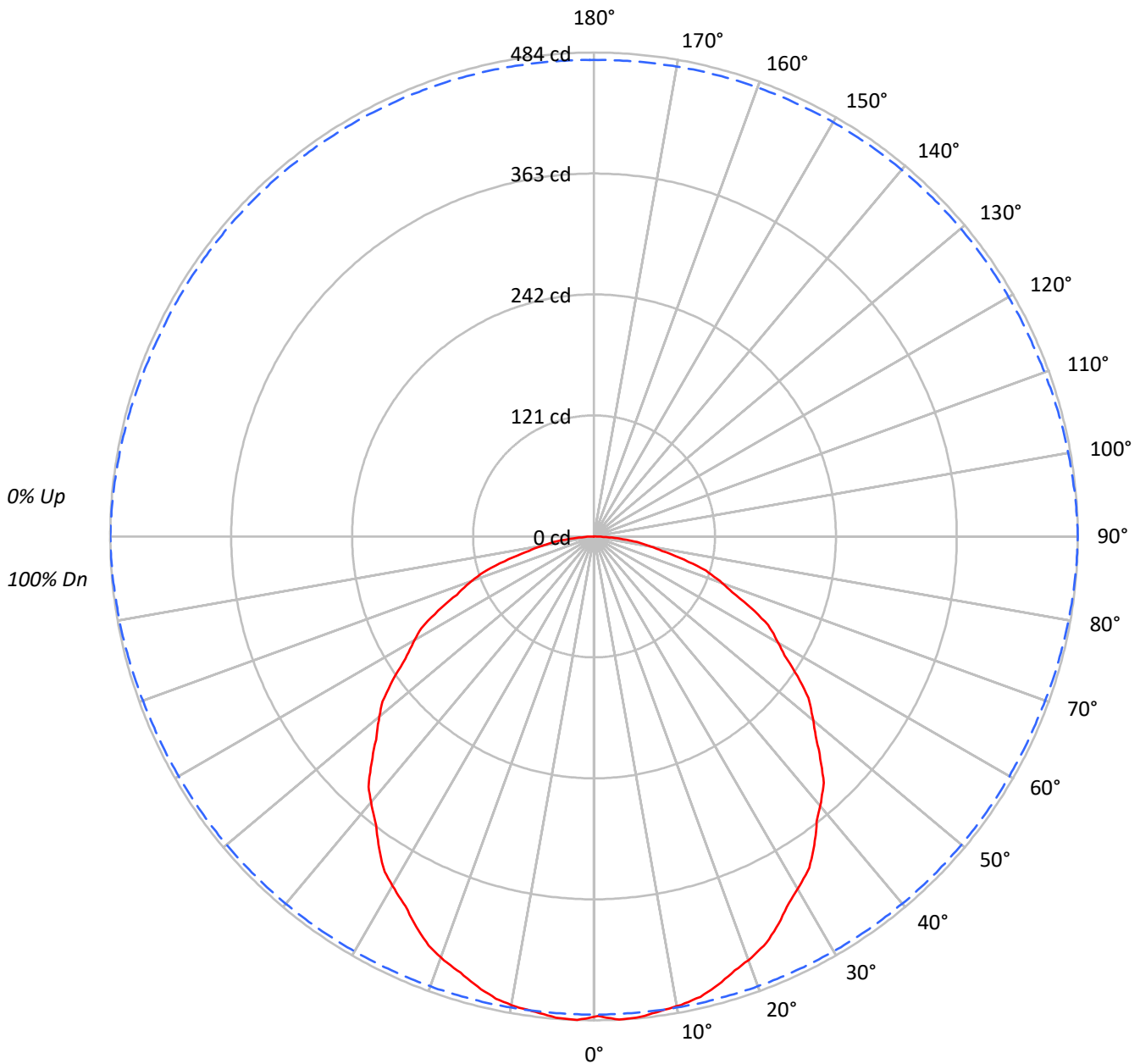
Lumens per Lamp: N/A  
Luminaire Lumens: 1339.1 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.2  
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	83	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	47	58	51	46	56	50	45	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	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°	7752	7752	7752
5°	7765	7831	7715
10°	7753	7820	7668
15°	7731	7783	7611
20°	7680	7734	7538
25°	7557	7650	7391
30°	7485	7562	7273
35°	7403	7484	7159
40°	7284	7371	7000
45°	7158	7254	6827
50°	7018	7121	6601
55°	6787	6961	6407
60°	6581	6781	6148
65°	6246	6602	5849
70°	5910	6302	5471
75°	5490	5808	4903
80°	4909	5095	4333
85°	3649	3835	2871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.4	3.4
10°-20°	129.9	9.7
20°-30°	195.3	14.6
30°-40°	233.5	17.4
40°-50°	240.0	17.9
50°-60°	214.4	16.0
60°-70°	162.9	12.2
70°-80°	93.1	6.9
80°-90°	24.6	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°	370.6	27.7
0°-40°	604.1	45.1
0°-60°	1058.5	79.0
0°-90°	1339.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1339.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	480	480	480	480	480	
5°	479	479	483	478	476	45
15°	462	464	466	459	455	130
25°	424	429	429	422	415	196
35°	376	381	380	372	363	235
45°	314	318	318	308	299	242
55°	241	245	247	235	228	216
65°	164	169	173	160	153	162
75°	88	91	93	84	79	93
85°	20	23	21	19	16	24
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°	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1
2.5°	478.5	479.3	480.1	480.2	484.3	479.4	479.3	478.4	476.8
5°	479.1	479.1	479.1	478.2	483.2	477.1	478.0	476.0	476.0
7.5°	476.2	475.4	475.6	474.4	479.5	473.2	473.3	472.0	471.8
10°	472.9	472.9	473.9	471.9	477.0	469.9	470.8	468.7	467.7
12.5°	469.6	468.7	469.8	467.8	472.9	465.8	465.8	462.9	462.7
15°	462.5	462.5	463.6	461.6	465.6	459.6	459.4	456.3	455.3
17.5°	453.6	453.4	455.7	452.7	456.7	449.6	449.7	447.0	445.3
20°	447.0	446.0	449.1	446.1	450.1	443.0	443.9	438.7	438.7
22.5°	438.7	437.7	441.6	437.8	441.8	434.7	435.6	429.6	428.8
25°	424.2	425.2	429.4	426.4	429.4	422.3	422.2	415.9	414.9
27.5°	412.2	411.4	416.8	412.5	415.5	408.5	408.5	401.0	400.0
30°	401.5	401.5	407.7	402.6	405.6	398.5	399.4	391.1	390.1
32.5°	391.5	391.5	396.9	393.5	395.7	388.6	387.8	380.3	379.3
35°	375.6	375.6	380.8	377.7	379.7	372.7	371.5	363.2	363.2
37.5°	358.0	357.2	362.2	360.1	362.2	355.3	352.8	345.6	344.6
40°	345.6	345.6	349.7	347.7	349.7	343.7	340.4	333.2	332.1
42.5°	332.4	332.4	337.3	335.3	337.3	330.4	327.2	319.9	318.9
45°	313.5	313.5	317.7	316.6	317.7	311.6	308.3	300.0	299.0
47.5°	293.4	292.6	296.6	296.8	298.4	291.7	287.4	279.6	278.5
50°	279.4	279.4	282.5	283.5	283.5	278.5	274.2	263.8	262.8
52.5°	262.8	263.6	266.8	267.8	268.6	261.9	257.6	249.8	248.7
55°	241.1	240.1	245.2	246.3	247.3	241.2	234.9	228.7	227.6
57.5°	218.7	218.5	222.9	224.1	224.9	219.9	213.6	206.5	205.3
60°	203.8	202.8	208.0	210.0	210.0	205.0	198.7	192.4	190.4
62.5°	186.5	188.7	192.3	194.4	196.0	190.1	182.9	177.5	175.5
65°	163.5	164.5	168.7	170.8	172.8	166.7	160.4	155.2	153.1
67.5°	140.1	141.9	145.1	147.2	149.2	143.3	137.0	132.6	130.8
70°	125.2	126.2	129.3	131.5	133.5	128.4	122.1	116.9	115.9
72.5°	110.3	111.3	114.4	115.7	116.9	111.9	106.4	102.8	101.0
75°	88.0	89.0	91.1	92.1	93.1	88.1	83.8	80.7	78.6
77.5°	66.8	66.8	68.9	69.7	69.7	66.7	62.7	59.8	58.2
80°	52.8	52.8	54.8	54.8	54.8	51.8	48.6	46.6	46.6
82.5°	38.7	39.5	41.6	41.6	40.8	38.5	36.2	34.1	34.1
85°	19.7	20.7	22.8	22.7	20.7	20.7	18.6	17.5	15.5
87.5°	5.0	5.8	7.5	8.2	6.6	6.6	5.0	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)