

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: P522566

Luminaire Tested: **SQW-F-0U-025D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522566  
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-025D-93050-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

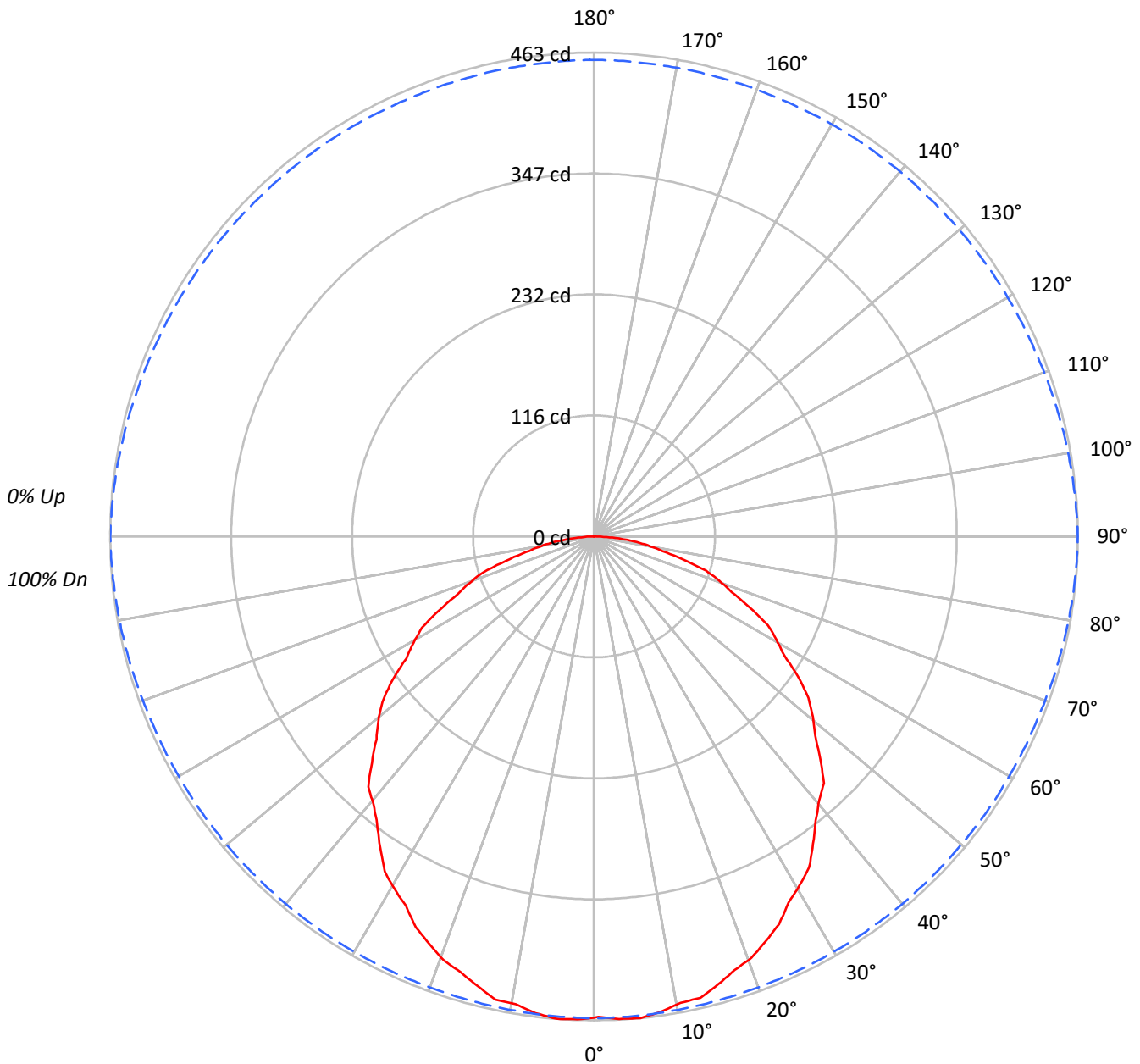
Lumens per Lamp: N/A  
Luminaire Lumens: 1279.2 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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



TEST NUMBER: P522566  
CATALOG NUMBER: SQW-F-OU-025D-93050-1D-UNV-STD-W-4 (4500K)

### Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral      - - - Horizontal Cone Through 5° Vertical



TEST NUMBER: P522566

CATALOG NUMBER: SQW-F-OU-025D-93050-1D-UNV-STD-W-4 (4500K)

**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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34				34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30				30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24				24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	7427	7427	7427
5°	7473	7506	7391
10°	7425	7442	7309
15°	7383	7435	7265
20°	7380	7397	7187
25°	7235	7326	7108
30°	7154	7230	6963
35°	7082	7121	6800
40°	6993	6993	6671
45°	6786	6925	6508
50°	6699	6825	6340
55°	6503	6674	6075
60°	6278	6474	5851
65°	6067	6262	5559
70°	5717	6005	5235
75°	5271	5458	4697
80°	4640	4826	3970
85°	3390	3779	2631



TEST NUMBER: P522566

CATALOG NUMBER: SQW-F-OU-025D-93050-1D-UNV-STD-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.5	3.4
10°-20°	124.2	9.7
20°-30°	186.7	14.6
30°-40°	222.8	17.4
40°-50°	228.9	17.9
50°-60°	205.4	16.1
60°-70°	155.5	12.2
70°-80°	88.8	6.9
80°-90°	23.3	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°	354.4	27.7
0°-40°	577.2	45.1
0°-60°	1011.6	79.1
0°-90°	1279.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	460	460	460	460	460	
5°	461	459	463	456	456	44
15°	442	445	445	441	435	125
25°	406	410	411	406	399	188
35°	359	361	361	353	345	225
45°	297	303	303	292	285	230
55°	231	236	237	225	216	207
65°	159	162	164	153	146	156
75°	84	88	88	80	75	89
85°	18	21	20	17	14	23
90°	0	0	0	0	0	



TEST NUMBER: P522566

CATALOG NUMBER: SQW-F-OU-025D-93050-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0
2.5°	459.2	460.0	461.7	459.3	462.5	459.3	460.0	458.4	456.0
5°	461.1	459.1	459.0	459.1	463.1	458.1	456.0	455.0	456.0
7.5°	455.4	455.8	455.6	455.3	459.6	451.9	454.9	451.9	452.3
10°	452.9	450.9	453.9	451.9	453.9	450.9	450.9	447.8	445.8
12.5°	450.5	449.3	450.7	447.1	453.1	445.4	444.4	443.8	444.2
15°	441.7	444.7	444.8	441.8	444.8	437.8	440.7	436.6	434.6
17.5°	436.8	433.8	435.2	432.8	436.2	430.5	430.1	425.9	426.5
20°	429.5	426.5	429.5	425.5	430.5	421.6	424.4	419.3	418.3
22.5°	419.7	419.1	423.0	419.8	420.8	415.8	415.5	409.5	408.5
25°	406.1	407.1	410.2	405.2	411.2	403.2	406.1	397.0	399.0
27.5°	394.3	394.5	398.0	395.5	396.7	390.6	390.8	383.1	381.7
30°	383.7	384.7	389.8	385.8	387.8	380.8	382.7	372.5	373.5
32.5°	376.4	374.2	378.4	374.4	378.0	371.0	371.3	363.5	362.1
35°	359.3	359.3	361.3	361.3	361.3	354.3	353.2	346.0	345.0
37.5°	341.6	340.8	347.7	342.4	344.8	339.1	336.9	329.9	328.7
40°	331.8	327.8	333.8	331.8	331.8	326.8	324.7	318.5	316.5
42.5°	318.0	317.2	321.6	320.5	322.8	314.7	312.5	305.5	304.3
45°	297.2	298.2	303.3	301.3	303.3	298.3	292.1	287.0	285.0
47.5°	279.7	278.1	282.9	282.8	284.8	277.2	274.4	266.7	266.3
50°	266.7	266.7	270.7	269.8	271.7	265.8	260.6	254.4	252.4
52.5°	253.6	252.0	256.9	256.7	257.1	251.9	246.7	241.4	240.2
55°	231.0	232.0	236.1	236.1	237.1	232.2	224.9	218.8	215.8
57.5°	209.9	209.3	213.1	214.3	214.3	209.4	202.9	197.8	196.6
60°	194.4	195.4	198.5	200.5	200.5	195.5	188.3	183.2	181.2
62.5°	179.7	179.9	183.8	185.1	186.7	180.9	174.4	169.3	167.3
65°	158.8	157.8	161.8	163.9	163.9	158.9	152.7	147.5	145.5
67.5°	135.0	136.4	139.6	140.9	141.9	135.9	129.9	126.6	125.6
70°	121.1	120.1	124.2	126.2	127.2	121.3	116.0	111.9	110.9
72.5°	106.5	106.3	109.5	111.6	111.8	105.8	101.4	98.1	95.5
75°	84.5	85.5	87.5	87.5	87.5	83.5	80.4	77.3	75.3
77.5°	62.9	63.9	65.7	67.6	66.6	63.0	59.8	56.8	55.0
80°	49.9	50.9	51.9	52.9	51.9	49.9	46.8	43.7	42.7
82.5°	36.8	37.0	39.7	39.9	38.9	36.9	34.6	31.5	31.3
85°	18.3	19.3	21.4	21.4	20.4	19.4	17.3	15.2	14.2
87.5°	4.1	4.9	6.5	8.1	6.5	6.5	4.9	3.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)