

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: P522511

Luminaire Tested: **SQW-F-025U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522511
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-025U-125D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

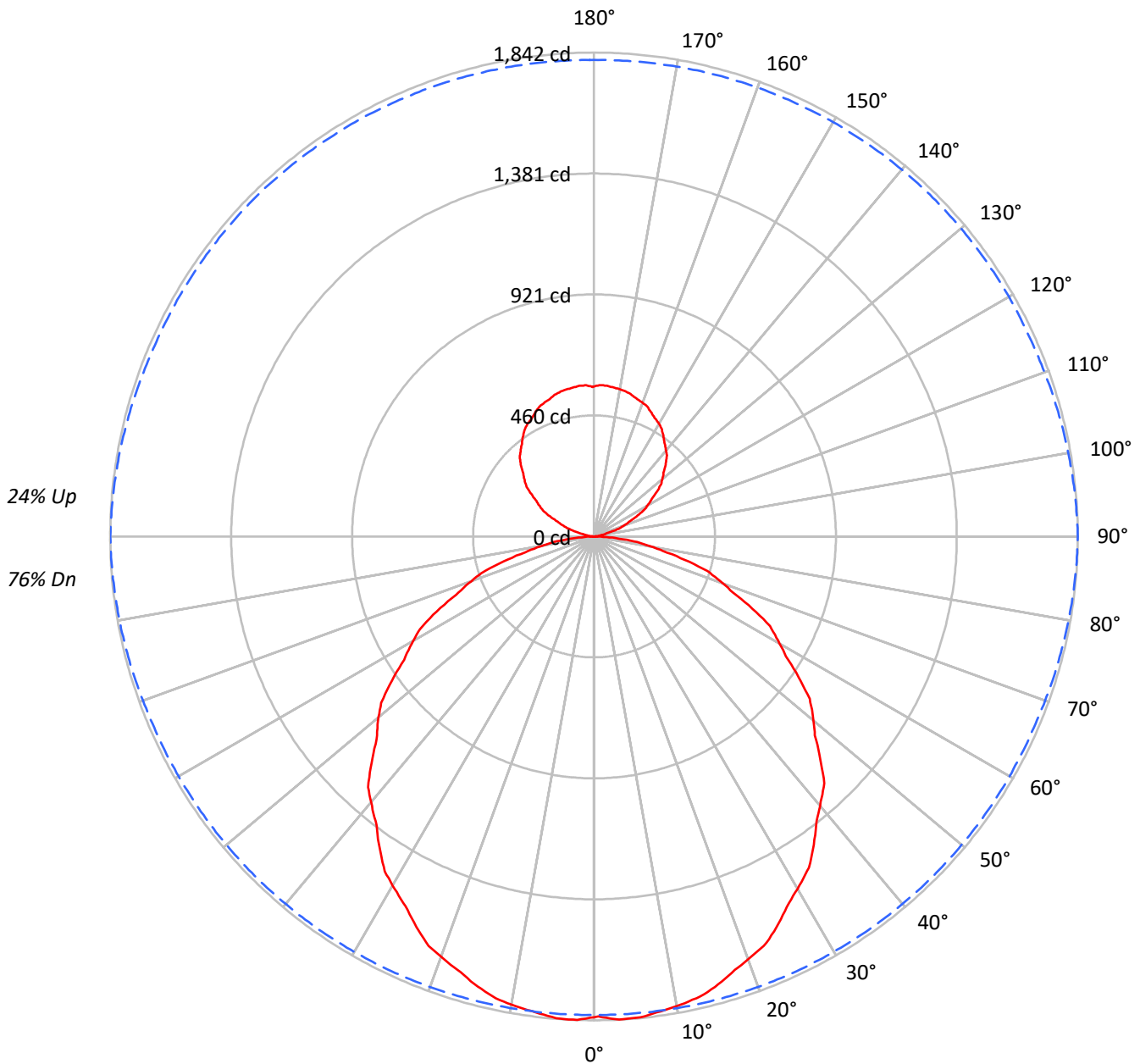
Lumens per Lamp: N/A
Luminaire Lumens: 6685.1 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 72.6
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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	103	99	95	91	98	94	91	87	86	83	80	78	76	74	71	69	68	64
2	94	86	80	74	89	82	76	71	75	70	66	68	65	61	62	59	57	53
3	86	76	68	62	81	72	65	59	66	60	55	60	56	52	55	51	48	45
4	78	67	58	52	74	64	56	50	59	52	47	54	48	44	49	45	41	38
5	72	60	51	45	68	57	49	43	52	46	41	48	43	38	44	39	36	33
6	66	54	45	39	63	51	43	38	47	41	36	43	38	33	40	35	31	29
7	61	48	40	34	58	47	39	33	43	36	31	39	34	30	36	31	28	26
8	57	44	36	30	54	42	35	30	39	33	28	36	31	26	33	29	25	23
9	53	40	32	27	51	39	32	26	36	30	25	33	28	24	31	26	22	20
10	50	37	30	24	47	36	29	24	33	27	23	31	25	22	29	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29497	29497	29497
5°	29577	29807	29313
10°	29535	29719	29117
15°	29466	29585	28938
20°	29222	29362	28575
25°	28883	29083	28067
30°	28519	28728	27591
35°	28186	28407	27001
40°	27695	28015	26494
45°	27190	27585	25795
50°	26819	27151	25206
55°	26156	26587	24352
60°	25404	25998	23402
65°	24458	25352	22204
70°	23207	24024	20899
75°	21584	22352	18858
80°	18354	19396	15714
85°	13950	15080	10745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	2.6
10°-20°	493.6	7.4
20°-30°	742.3	11.1
30°-40°	886.8	13.3
40°-50°	912.0	13.6
50°-60°	821.0	12.3
60°-70°	625.4	9.4
70°-80°	356.5	5.3
80°-90°	92.8	1.4
90°-100°	14.4	0.2
100°-110°	63.8	1.0
110°-120°	183.2	2.7
120°-130°	279.1	4.2
130°-140°	302.9	4.5
140°-150°	289.7	4.3
150°-160°	238.7	3.6
160°-170°	156.2	2.3
170°-180°	54.1	0.8
0°-30°	1408.7	21.1
0°-40°	2295.5	34.3
0°-60°	4028.6	60.3
0°-90°	5103.2	76.3
90°-120°	261.3	3.9
90°-150°	1133.0	16.9
90°-180°	1582.0	23.7
0°-180°	6685.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1827	1827	1827	1827	1827	
5°	1825	1824	1839	1813	1809	173
15°	1763	1763	1770	1740	1731	497
25°	1621	1636	1632	1602	1576	747
35°	1430	1446	1441	1407	1370	893
45°	1191	1206	1208	1164	1130	920
55°	929	940	944	897	865	830
65°	640	652	664	613	581	633
75°	346	353	358	319	302	365
85°	75	88	81	69	58	89
90°	0	0	0	0	0	3
95°	2	3	10	22	22	3
105°	14	39	73	50	54	17
115°	137	361	185	86	97	190
125°	546	475	294	146	124	479
135°	602	545	390	242	192	464
145°	630	586	466	344	294	394
155°	636	610	521	432	394	294
165°	623	607	559	502	478	177
175°	586	588	576	550	537	57
180°	569	569	569	569	569	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9
2.5°	1821.2	1825.2	1826.9	1825.7	1841.6	1823.3	1823.7	1818.7	1813.1
5°	1824.9	1822.9	1823.9	1820.2	1839.1	1815.3	1812.7	1807.6	1808.6
7.5°	1812.9	1811.5	1812.3	1807.0	1824.9	1800.8	1798.8	1793.5	1793.1
10°	1801.5	1798.5	1802.5	1794.8	1812.7	1787.8	1784.2	1778.0	1776.0
12.5°	1788.4	1784.7	1789.5	1780.1	1797.2	1769.9	1769.5	1760.9	1759.7
15°	1762.8	1762.8	1762.8	1755.0	1769.9	1742.1	1740.4	1731.2	1731.2
17.5°	1726.8	1727.6	1732.9	1722.6	1734.9	1708.0	1704.6	1693.8	1692.4
20°	1700.7	1700.7	1710.9	1694.9	1708.9	1682.0	1679.3	1662.1	1663.1
22.5°	1669.8	1669.8	1682.4	1668.0	1680.4	1653.5	1650.0	1629.5	1630.5
25°	1621.3	1619.3	1635.6	1621.6	1632.5	1605.7	1602.0	1577.5	1575.5
27.5°	1567.2	1569.0	1584.7	1570.1	1580.0	1550.7	1551.7	1522.5	1518.9
30°	1529.7	1530.7	1548.0	1535.0	1540.9	1514.1	1513.4	1481.8	1479.9
32.5°	1490.6	1490.8	1509.0	1493.5	1502.7	1475.0	1471.1	1441.1	1438.3
35°	1430.0	1429.0	1446.3	1435.2	1441.2	1412.3	1406.6	1378.9	1369.9
37.5°	1361.2	1362.0	1378.3	1371.9	1375.6	1348.0	1336.8	1309.2	1305.8
40°	1314.0	1314.0	1330.2	1326.2	1329.2	1302.4	1289.5	1261.9	1257.0
42.5°	1265.1	1266.7	1281.4	1278.3	1285.3	1256.0	1239.9	1213.9	1207.3
45°	1190.8	1193.8	1206.1	1203.1	1208.1	1183.2	1164.3	1136.7	1129.7
47.5°	1120.6	1117.6	1131.4	1129.6	1131.4	1107.1	1088.2	1059.6	1054.0
50°	1067.7	1064.7	1076.8	1079.9	1080.9	1055.0	1036.1	1007.5	1003.5
52.5°	1013.1	1010.1	1023.1	1027.8	1028.0	1003.7	981.6	954.6	950.6
55°	929.2	924.3	940.4	946.5	944.5	923.6	896.7	873.1	865.1
57.5°	844.6	844.0	857.8	863.3	862.1	841.4	814.6	790.6	782.5
60°	786.7	783.8	800.0	807.1	805.1	785.2	755.2	733.6	724.7
62.5°	728.9	729.1	743.0	749.3	751.3	727.4	699.8	675.0	668.5
65°	640.2	636.2	652.4	658.6	663.6	638.7	612.7	588.1	581.2
67.5°	551.0	548.0	559.2	566.4	570.8	548.5	523.1	502.7	499.7
70°	491.6	488.6	499.7	506.9	508.9	489.0	462.1	445.7	442.7
72.5°	433.0	430.0	438.7	445.9	450.3	428.8	403.4	387.8	380.9
75°	346.0	344.1	353.2	353.3	358.3	337.4	318.6	303.3	302.3
77.5°	259.3	260.7	267.3	267.7	268.9	253.4	238.6	221.2	220.2
80°	197.4	204.4	208.6	210.6	208.6	198.7	183.2	169.9	169.0
82.5°	146.2	151.5	159.8	158.5	154.9	147.3	135.2	122.7	121.7
85°	75.3	80.3	87.5	87.4	81.4	77.4	69.2	59.0	58.0
87.5°	17.9	21.1	28.5	30.8	25.2	26.0	17.9	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.4	0.4	0.8	1.3	2.1	7.9	8.9	8.1	7.6
95°	2.1	2.1	3.2	10.1	10.1	16.3	22.3	21.7	21.7
97.5°	4.8	5.3	7.4	30.7	22.9	22.3	31.8	35.0	35.3
100°	6.9	7.4	11.7	50.0	33.9	28.8	33.9	41.4	43.0
102.5°	9.4	10.4	18.5	79.0	47.9	34.5	39.9	45.2	46.8
105°	14.3	15.9	38.7	132.3	73.2	45.7	50.4	53.1	53.6
107.5°	21.5	27.3	106.0	186.1	103.9	60.5	63.2	65.0	65.7
110°	29.2	41.6	184.0	218.6	126.8	71.8	70.0	74.8	73.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	49.1	85.6	270.2	245.2	149.7	85.2	76.4	84.1	84.8
115°	137.4	235.9	361.2	283.1	184.6	108.3	86.5	94.0	97.1
117.5°	344.8	410.2	409.1	318.2	218.1	135.6	98.5	102.1	105.7
120°	463.6	473.4	433.3	341.9	239.7	155.2	108.7	107.2	110.3
122.5°	507.7	499.7	451.6	362.7	261.8	175.6	121.9	112.7	115.4
125°	545.8	530.2	475.2	392.4	294.4	205.7	145.9	124.6	124.1
127.5°	566.9	550.6	498.4	418.2	324.3	236.9	173.1	141.5	136.7
130°	577.1	562.0	514.5	433.9	344.2	258.1	193.1	156.3	149.0
132.5°	589.4	573.1	525.9	450.1	363.3	278.1	213.0	174.1	165.6
135°	601.5	586.4	544.7	471.3	390.4	307.4	241.9	203.4	192.5
137.5°	612.3	598.5	561.9	487.9	414.8	336.3	272.4	235.0	221.7
140°	619.5	604.5	569.1	500.7	429.6	354.4	292.8	255.4	245.0
142.5°	622.0	612.8	576.8	511.4	446.2	371.8	313.1	274.5	265.0
145°	629.6	623.4	586.1	524.3	465.7	397.7	344.2	304.2	293.8
147.5°	634.5	625.1	594.7	538.2	484.8	421.0	372.4	334.0	324.4
150°	634.9	627.6	601.5	546.8	497.5	437.9	389.8	353.6	344.8
152.5°	638.3	629.4	604.9	554.0	506.8	452.2	407.2	373.5	363.9
155°	635.9	629.7	610.0	563.4	521.4	470.6	431.7	401.9	393.6
157.5°	635.9	628.3	610.6	570.6	535.4	490.8	454.7	427.0	420.8
160°	631.7	628.6	611.0	575.8	542.6	502.1	469.9	444.8	436.5
162.5°	630.0	624.8	611.9	579.2	549.0	511.4	483.1	459.3	453.1
165°	622.7	618.0	606.8	580.8	559.0	527.9	502.3	481.0	477.9
167.5°	614.3	610.7	603.3	583.4	565.7	540.3	518.7	501.5	497.3
170°	608.4	602.7	599.9	584.7	569.1	547.8	529.3	513.8	509.2
172.5°	598.2	597.5	595.2	581.4	572.1	554.6	539.1	524.9	521.9
175°	586.1	586.1	587.7	579.1	576.0	561.5	550.5	542.0	537.3
177.5°	572.1	572.5	575.9	575.5	575.9	567.6	564.4	556.4	555.5
180°	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1

(END OF REPORT)