

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: P522449

Luminaire Tested: **SQW-F-100U-025D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522449
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-100U-025D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

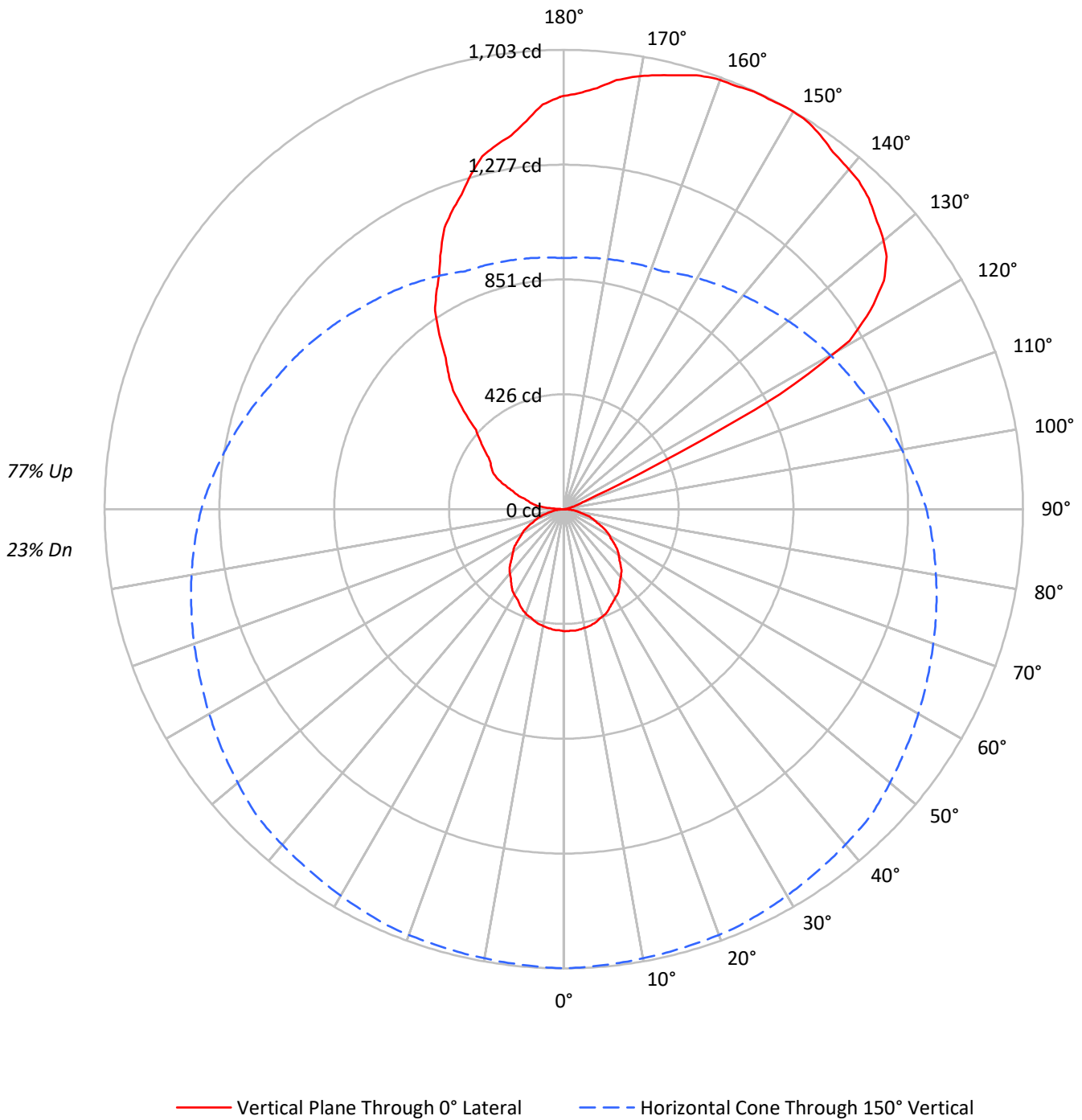
Lumens per Lamp: N/A
Luminaire Lumens: 5530.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 49.6
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





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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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	87	84	80	81	78	75	72	60	58	56	43	42	40	27	27	26	19
2	83	76	70	65	74	68	63	59	52	49	46	38	35	34	24	23	22	16
3	76	67	60	54	67	60	54	49	46	42	38	33	30	28	21	20	19	13
4	69	59	51	46	61	53	46	41	41	36	33	29	26	24	19	17	16	11
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	17	15	14	10
6	58	47	39	33	52	42	35	30	32	28	24	24	20	18	15	13	12	9
7	54	42	34	29	48	38	31	26	29	24	21	21	18	16	14	12	11	8
8	50	38	31	25	44	34	28	23	26	22	19	19	16	14	13	11	9	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	8	6
10	43	31	25	20	38	28	22	18	22	18	15	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7316	7316	7316
5°	7329	7392	7280
10°	7317	7381	7237
15°	7296	7346	7183
20°	7249	7299	7115
25°	7133	7220	6976
30°	7064	7137	6865
35°	6987	7064	6757
40°	6875	6957	6608
45°	6756	6846	6444
50°	6624	6722	6229
55°	6404	6570	6046
60°	6213	6400	5803
65°	5895	6231	5521
70°	5580	5948	5164
75°	5178	5483	4629
80°	4630	4816	4082
85°	3446	3612	2705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	0.8
10°-20°	122.6	2.2
20°-30°	184.3	3.3
30°-40°	220.4	4.0
40°-50°	226.5	4.1
50°-60°	202.4	3.7
60°-70°	153.7	2.8
70°-80°	87.8	1.6
80°-90°	23.2	0.4
90°-100°	40.2	0.7
100°-110°	174.0	3.1
110°-120°	496.2	9.0
120°-130°	754.5	13.6
130°-140°	816.1	14.8
140°-150°	779.8	14.1
150°-160°	641.3	11.6
160°-170°	419.1	7.6
170°-180°	144.9	2.6
0°-30°	349.7	6.3
0°-40°	570.1	10.3
0°-60°	999.0	18.1
0°-90°	1263.8	22.9
90°-120°	710.4	12.8
90°-150°	3060.8	55.3
90°-180°	4266.0	77.1
0°-180°	5530.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	453	453	453	453	453	
5°	452	452	456	451	449	43
15°	436	438	440	434	430	123
25°	400	405	405	398	392	185
35°	354	359	358	351	343	221
45°	296	300	300	291	282	228
55°	228	231	233	222	215	203
65°	154	159	163	151	144	153
75°	83	86	88	79	74	88
85°	19	22	20	18	15	22
90°	0	0	0	0	0	1
95°	6	9	27	65	61	8
105°	40	102	201	138	148	46
115°	366	973	502	239	270	503
125°	1459	1284	803	394	339	1282
135°	1614	1461	1056	655	519	1244
145°	1682	1574	1259	932	794	1054
155°	1702	1626	1406	1167	1059	786
165°	1661	1625	1506	1350	1288	472
175°	1565	1569	1542	1486	1446	152
180°	1529	1529	1529	1529	1529	



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CATALOG NUMBER: SQW-F-100U-025D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1
2.5°	451.6	452.3	453.1	453.2	457.0	452.5	452.3	451.5	450.0
5°	452.2	452.2	452.2	451.3	456.1	450.3	451.2	449.2	449.2
7.5°	449.4	448.7	448.8	447.8	452.5	446.6	446.7	445.5	445.3
10°	446.3	446.3	447.3	445.4	450.2	443.5	444.3	442.4	441.4
12.5°	443.2	442.4	443.4	441.5	446.3	439.6	439.7	436.9	436.7
15°	436.5	436.5	437.5	435.6	439.5	433.7	433.6	430.6	429.7
17.5°	428.1	427.9	430.1	427.2	431.1	424.4	424.4	421.8	420.3
20°	421.9	420.9	423.8	421.0	424.8	418.1	418.9	414.1	414.1
22.5°	414.1	413.1	416.8	413.2	417.0	410.3	411.1	405.5	404.7
25°	400.4	401.3	405.3	402.4	405.3	398.6	398.4	392.6	391.6
27.5°	389.1	388.3	393.4	389.3	392.2	385.5	385.5	378.5	377.5
30°	378.9	378.9	384.8	380.0	382.8	376.1	377.0	369.1	368.2
32.5°	369.5	369.5	374.6	371.3	373.4	366.8	366.0	359.0	358.0
35°	354.5	354.5	359.4	356.5	358.4	351.7	350.6	342.8	342.8
37.5°	337.9	337.1	341.8	339.9	341.8	335.3	333.0	326.2	325.2
40°	326.2	326.2	330.1	328.2	330.1	324.4	321.3	314.4	313.5
42.5°	313.7	313.7	318.4	316.5	318.4	311.9	308.8	301.9	301.0
45°	295.9	295.9	299.8	298.9	299.8	294.1	291.0	283.2	282.2
47.5°	277.0	276.2	279.9	280.1	281.6	275.3	271.3	263.8	262.9
50°	263.7	263.7	266.6	267.6	267.6	262.8	258.8	249.0	248.0
52.5°	248.0	248.8	251.8	252.8	253.5	247.2	243.2	235.7	234.8
55°	227.5	226.6	231.4	232.4	233.4	227.7	221.7	215.8	214.8
57.5°	206.4	206.3	210.4	211.5	212.3	207.5	201.6	194.9	193.8
60°	192.4	191.4	196.3	198.2	198.2	193.5	187.5	181.6	179.7
62.5°	176.0	178.1	181.4	183.4	185.0	179.4	172.7	167.5	165.6
65°	154.3	155.3	159.2	161.2	163.1	157.4	151.4	146.4	144.5
67.5°	132.2	133.9	136.9	138.9	140.8	135.3	129.3	125.2	123.4
70°	118.2	119.1	122.1	124.1	126.0	121.2	115.2	110.3	109.4
72.5°	104.1	105.1	108.0	109.2	110.4	105.6	100.4	97.0	95.3
75°	83.0	84.0	85.9	86.9	87.9	83.1	79.1	76.1	74.2
77.5°	63.1	63.1	65.0	65.8	65.8	63.0	59.2	56.4	54.9
80°	49.8	49.8	51.8	51.8	51.8	48.9	45.9	43.9	43.9
82.5°	36.5	37.3	39.3	39.2	38.5	36.4	34.2	32.2	32.2
85°	18.6	19.5	21.5	21.4	19.5	19.5	17.6	16.6	14.6
87.5°	4.7	5.5	7.0	7.8	6.3	6.3	4.7	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.1	2.1	2.1	4.2	6.2	22.5	24.9	21.8	21.8
95°	6.5	6.5	9.1	28.5	27.3	46.3	64.9	61.0	61.0
97.5°	13.2	14.5	20.8	84.4	63.6	61.8	87.7	97.6	99.4
100°	19.5	20.7	31.1	137.9	94.7	80.8	96.0	114.3	118.1
102.5°	26.7	29.0	49.8	216.9	133.2	94.8	109.5	125.7	130.6
105°	40.2	44.0	102.5	363.6	201.2	123.8	137.6	144.1	148.0
107.5°	59.7	75.2	276.2	510.9	285.5	163.4	178.1	177.1	180.4
110°	80.5	112.2	477.6	591.5	347.8	194.3	194.7	205.0	201.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	133.4	223.0	712.3	669.0	410.1	231.2	210.3	233.1	234.4
115°	366.0	628.7	973.4	777.6	502.3	296.7	238.8	261.1	270.0
117.5°	907.5	1093.8	1107.1	874.1	594.2	369.8	271.5	281.4	293.1
120°	1230.4	1268.4	1169.4	933.3	655.4	421.9	298.5	294.9	307.6
122.5°	1357.0	1343.3	1220.2	988.5	715.6	477.1	331.7	311.4	320.1
125°	1458.8	1423.3	1283.6	1064.8	803.4	559.7	394.5	338.7	338.7
127.5°	1519.5	1478.2	1341.7	1132.5	882.5	643.2	470.1	383.1	371.2
130°	1554.8	1510.4	1377.0	1179.4	934.5	697.2	523.0	421.4	402.3
132.5°	1581.8	1541.5	1410.3	1216.0	985.3	750.1	576.0	468.9	437.6
135°	1614.5	1580.3	1461.4	1272.2	1056.5	829.3	655.4	550.9	519.1
137.5°	1635.6	1608.9	1507.3	1318.3	1122.4	907.9	735.6	630.6	601.9
140°	1647.0	1625.4	1530.2	1345.6	1162.9	958.6	791.7	684.7	658.0
142.5°	1658.4	1640.9	1546.8	1375.9	1202.3	1009.2	846.7	739.6	711.0
145°	1682.0	1661.7	1574.3	1412.5	1258.9	1080.0	931.9	819.7	794.3
147.5°	1698.6	1674.3	1596.9	1451.7	1312.4	1144.1	1010.0	901.7	876.6
150°	1702.8	1677.4	1609.3	1472.8	1344.6	1183.4	1057.8	954.7	930.6
152.5°	1699.7	1680.4	1618.7	1490.6	1371.6	1221.6	1101.4	1005.6	983.5
155°	1701.5	1683.7	1626.2	1514.7	1405.6	1274.9	1166.8	1081.9	1059.1
157.5°	1693.7	1682.0	1631.4	1533.2	1437.0	1322.5	1226.7	1155.3	1132.3
160°	1693.7	1675.9	1631.4	1543.8	1458.8	1353.5	1264.1	1200.1	1181.1
162.5°	1682.3	1666.5	1630.4	1551.4	1479.6	1382.4	1299.4	1239.7	1225.7
165°	1661.3	1648.6	1624.9	1561.4	1505.5	1421.8	1349.8	1296.4	1287.5
167.5°	1644.9	1627.4	1614.5	1561.0	1523.2	1450.1	1392.3	1348.1	1343.0
170°	1626.2	1614.8	1604.2	1558.1	1531.5	1470.6	1422.5	1378.2	1373.1
172.5°	1602.3	1596.0	1590.7	1556.2	1536.7	1487.9	1448.4	1408.2	1399.1
175°	1565.2	1570.3	1569.1	1552.0	1541.9	1510.1	1486.0	1457.2	1445.8
177.5°	1542.4	1540.3	1545.5	1542.4	1541.3	1522.0	1515.4	1495.8	1501.9
180°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9

(END OF REPORT)