

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: P522457

Luminaire Tested: **SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522457
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-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 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

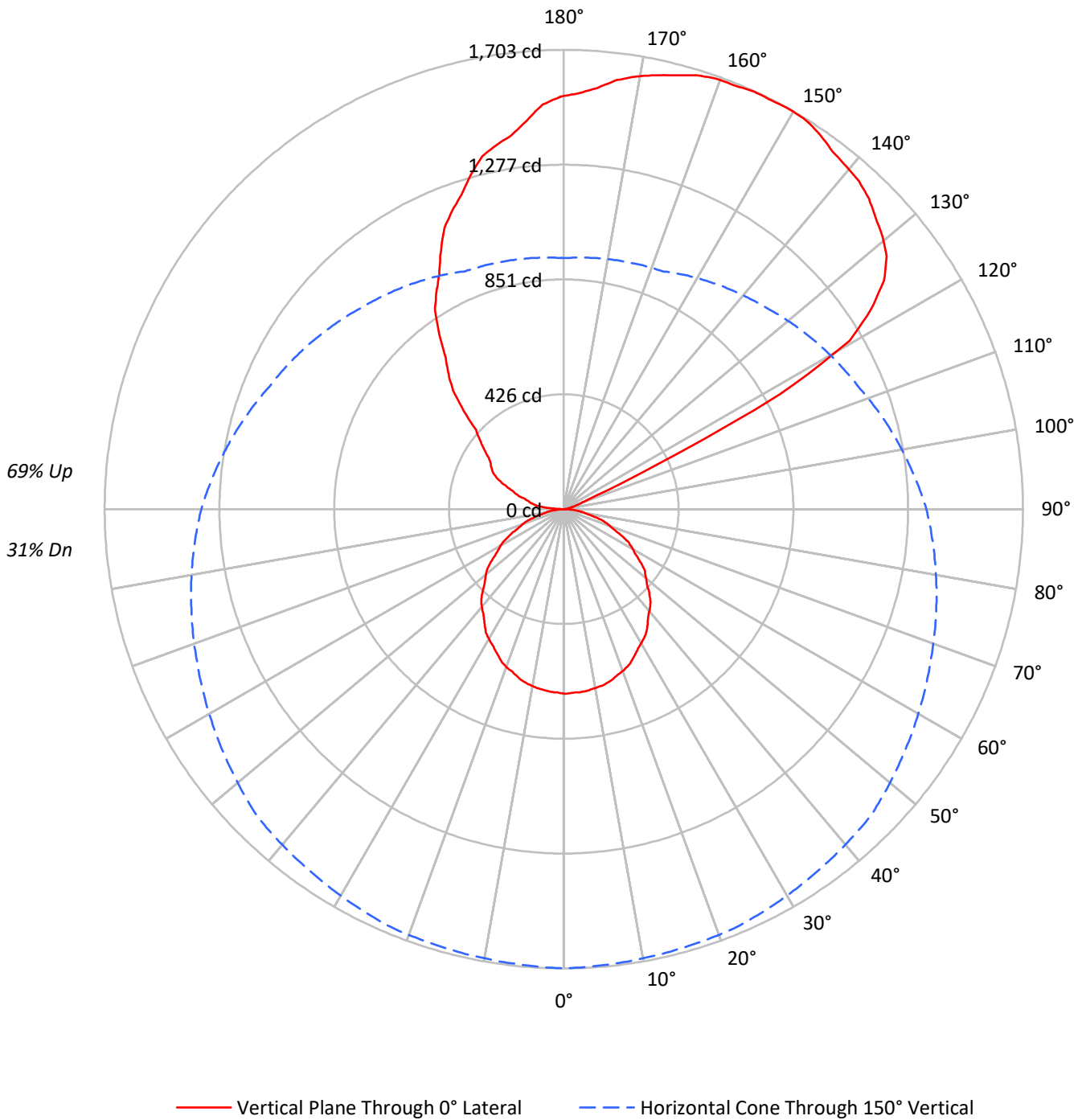
Lumens per Lamp: N/A
Luminaire Lumens: 6176.2 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 56.7
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	93	89	85	82	84	80	77	74	64	61	59	48	47	45	34	33	32	26
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	28	27	22
3	77	68	61	55	69	62	55	51	49	45	41	37	34	32	26	25	23	18
4	71	60	53	47	63	54	48	43	43	39	35	33	30	27	23	21	20	15
5	65	53	46	40	58	48	41	36	39	34	30	29	26	23	21	19	17	13
6	60	48	40	34	53	43	36	31	35	30	26	27	23	20	19	17	15	12
7	55	43	35	30	49	39	32	27	31	26	23	24	21	18	17	15	13	10
8	51	39	31	26	46	35	29	24	28	23	20	22	18	16	16	14	12	9
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	15	12	11	8
10	44	32	25	21	40	29	23	19	24	19	16	19	15	13	14	11	10	8

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	1.0
10°-20°	185.1	3.0
20°-30°	278.4	4.5
30°-40°	332.4	5.4
40°-50°	341.9	5.5
50°-60°	307.6	5.0
60°-70°	232.6	3.8
70°-80°	132.3	2.1
80°-90°	35.0	0.6
90°-100°	40.2	0.7
100°-110°	174.0	2.8
110°-120°	496.2	8.0
120°-130°	754.5	12.2
130°-140°	816.1	13.2
140°-150°	779.8	12.6
150°-160°	641.3	10.4
160°-170°	419.1	6.8
170°-180°	144.9	2.3
0°-30°	528.2	8.6
0°-40°	860.6	13.9
0°-60°	1510.2	24.5
0°-90°	1910.1	30.9
90°-120°	710.4	11.5
90°-150°	3060.8	49.6
90°-180°	4266.0	69.1
0°-180°	6176.2	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	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-050D-92765-1D-UNV-STD-W-4 (3000K)

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
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)