

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: P522456

Luminaire Tested: **SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522456
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

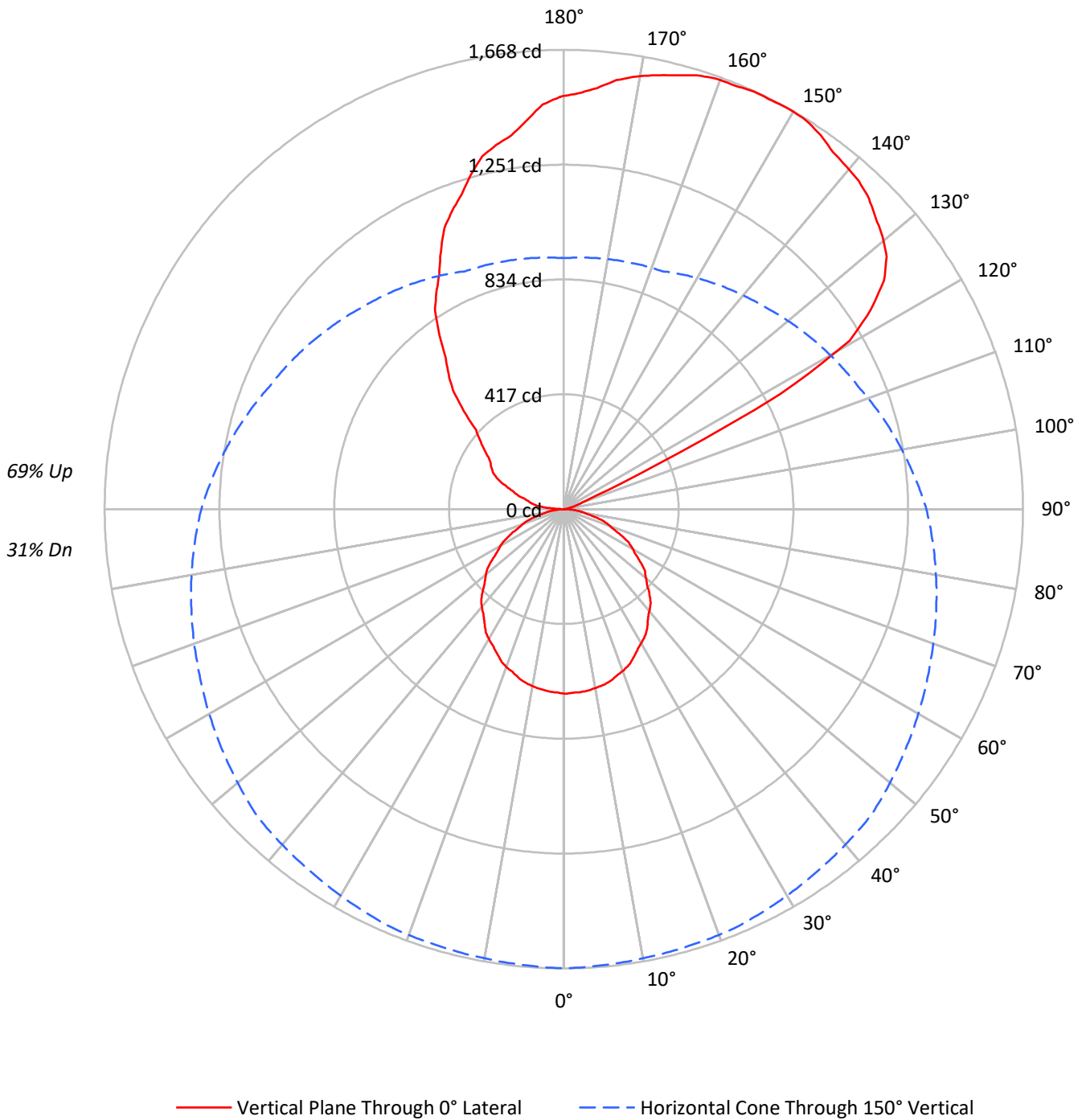
Lumens per Lamp: N/A
Luminaire Lumens: 6050.8 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 56.5
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°	10829	10829	10829
5°	10823	10932	10776
10°	10808	10917	10729
15°	10795	10858	10651
20°	10718	10801	10521
25°	10584	10687	10345
30°	10435	10577	10204
35°	10314	10447	10013
40°	10123	10304	9841
45°	9939	10159	9613
50°	9686	9972	9372
55°	9481	9748	9022
60°	9206	9545	8680
65°	8699	9138	8187
70°	8219	8719	7633
75°	7580	7997	6981
80°	6583	7029	5867
85°	4965	5502	4428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.0
10°-20°	181.3	3.0
20°-30°	272.8	4.5
30°-40°	325.7	5.4
40°-50°	335.0	5.5
50°-60°	301.4	5.0
60°-70°	227.9	3.8
70°-80°	129.6	2.1
80°-90°	34.3	0.6
90°-100°	39.4	0.7
100°-110°	170.5	2.8
110°-120°	486.2	8.0
120°-130°	739.2	12.2
130°-140°	799.5	13.2
140°-150°	763.9	12.6
150°-160°	628.3	10.4
160°-170°	410.5	6.8
170°-180°	142.0	2.3
0°-30°	517.5	8.6
0°-40°	843.2	13.9
0°-60°	1479.5	24.5
0°-90°	1871.3	30.9
90°-120°	696.0	11.5
90°-150°	2998.7	49.6
90°-180°	4180.0	69.1
0°-180°	6050.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	671	671	671	671	671	
5°	668	668	674	668	665	63
15°	646	647	650	642	637	182
25°	594	600	600	591	581	273
35°	523	529	530	519	508	326
45°	435	441	445	430	421	335
55°	337	344	346	333	320	301
65°	228	234	239	225	214	226
75°	122	125	128	119	112	128
85°	27	31	30	27	24	32
90°	0	0	0	0	0	1
95°	6	9	27	64	60	8
105°	39	100	197	135	145	46
115°	359	954	492	234	264	493
125°	1429	1258	787	386	332	1256
135°	1582	1432	1035	642	509	1219
145°	1648	1542	1233	913	778	1032
155°	1667	1593	1377	1143	1038	770
165°	1628	1592	1475	1322	1261	463
175°	1533	1537	1511	1456	1416	149
180°	1498	1498	1498	1498	1498	



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CATALOG NUMBER: SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7
2.5°	667.6	669.9	669.9	669.3	675.3	669.3	670.7	669.1	666.8
5°	667.8	667.8	667.8	667.0	674.5	666.1	667.8	664.9	664.9
7.5°	663.8	664.0	664.7	662.2	670.5	661.1	662.8	659.8	660.5
10°	659.2	660.1	660.1	658.4	665.9	656.5	658.2	654.4	654.4
12.5°	654.6	654.8	655.6	653.0	660.5	650.4	652.1	648.3	647.5
15°	645.8	645.8	646.8	643.1	649.6	640.3	642.0	637.2	637.2
17.5°	633.0	632.8	635.1	630.3	637.0	626.5	629.9	623.9	622.3
20°	623.8	622.9	626.7	621.1	628.6	617.4	620.0	613.2	612.3
22.5°	612.3	611.4	616.7	611.1	617.9	606.6	609.3	600.3	600.1
25°	594.1	593.2	599.9	594.3	599.9	589.6	591.3	581.7	580.7
27.5°	573.5	573.5	581.3	574.8	581.1	570.8	571.6	561.8	561.8
30°	559.7	559.7	568.3	561.7	567.3	557.1	557.8	547.3	547.3
32.5°	545.1	545.1	552.2	547.2	552.8	542.5	542.5	531.9	531.9
35°	523.3	521.5	529.1	524.4	530.0	519.7	518.6	508.0	508.0
37.5°	497.1	496.2	504.6	501.2	505.7	495.6	492.9	482.8	483.7
40°	480.3	479.3	487.0	485.2	488.9	479.5	474.5	466.0	466.9
42.5°	462.7	461.0	468.6	467.5	471.3	461.9	457.7	448.3	448.5
45°	435.3	435.3	441.1	441.1	444.9	434.6	430.5	421.0	421.0
47.5°	406.2	406.4	412.4	412.6	416.2	407.2	402.8	392.4	392.3
50°	385.6	386.5	393.2	394.2	397.0	389.6	383.7	374.1	373.1
52.5°	368.0	366.7	373.3	375.1	377.1	369.7	363.8	354.2	353.2
55°	336.8	337.7	343.5	346.3	346.3	339.8	332.9	323.3	320.5
57.5°	305.8	307.1	311.7	315.4	316.3	309.0	301.9	293.3	289.5
60°	285.1	284.2	291.8	294.7	295.6	289.1	281.3	272.6	268.8
62.5°	262.9	263.5	268.8	273.3	274.2	266.9	259.8	248.9	245.9
65°	227.7	230.5	234.4	237.3	239.2	233.6	224.8	216.2	214.3
67.5°	195.6	197.4	201.3	205.7	206.8	200.5	192.7	185.2	183.1
70°	174.1	176.0	179.9	182.8	184.7	179.0	171.3	164.5	161.7
72.5°	152.7	154.6	157.7	160.6	162.5	156.8	149.8	143.8	141.8
75°	121.5	123.4	125.3	127.3	128.2	124.5	118.6	112.9	111.9
77.5°	90.7	92.6	94.7	97.2	96.2	93.6	88.0	84.2	83.0
80°	70.8	72.7	75.6	76.5	75.6	73.7	68.9	65.0	63.1
82.5°	52.4	54.3	57.2	57.4	55.7	55.3	51.3	48.2	47.1
85°	26.8	28.7	30.6	31.5	29.7	29.7	26.8	23.9	23.9
87.5°	5.4	6.9	9.2	11.4	9.2	9.9	7.7	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.0	2.0	2.0	4.1	6.1	22.0	24.4	21.4	21.4
95°	6.4	6.4	8.9	27.9	26.7	45.4	63.6	59.8	59.8
97.5°	13.0	14.2	20.3	82.7	62.3	60.6	86.0	95.7	97.4
100°	19.1	20.3	30.5	135.1	92.8	79.1	94.1	112.0	115.7
102.5°	26.2	28.4	48.8	212.5	130.5	92.9	107.3	123.2	127.9
105°	39.4	43.1	100.4	356.2	197.1	121.2	134.8	141.2	145.0
107.5°	58.5	73.7	270.6	500.5	279.7	160.1	174.5	173.5	176.7
110°	78.8	109.9	467.9	579.5	340.8	190.3	190.7	200.8	197.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	130.7	218.5	697.8	655.4	401.8	226.5	206.0	228.4	229.6
115°	358.6	615.9	953.6	761.9	492.1	290.7	234.0	255.8	264.5
117.5°	889.0	1071.5	1084.6	856.4	582.1	362.3	266.0	275.7	287.1
120°	1205.4	1242.7	1145.6	914.4	642.1	413.4	292.4	288.9	301.3
122.5°	1329.5	1316.1	1195.5	968.4	701.1	467.4	325.0	305.1	313.6
125°	1429.2	1394.4	1257.5	1043.2	787.1	548.4	386.5	331.9	331.9
127.5°	1488.7	1448.2	1314.5	1109.5	864.6	630.1	460.5	375.3	363.7
130°	1523.3	1479.8	1349.1	1155.4	915.5	683.0	512.4	412.8	394.2
132.5°	1549.7	1510.2	1381.6	1191.4	965.3	734.8	564.3	459.3	428.8
135°	1581.8	1548.2	1431.7	1246.4	1035.0	812.5	642.1	539.7	508.6
137.5°	1602.4	1576.2	1476.7	1291.6	1099.6	889.5	720.7	617.8	589.7
140°	1613.5	1592.4	1499.1	1318.3	1139.3	939.1	775.6	670.8	644.7
142.5°	1624.7	1607.6	1515.4	1348.0	1177.9	988.7	829.5	724.6	696.5
145°	1647.9	1628.0	1542.3	1383.8	1233.4	1058.1	912.9	803.0	778.2
147.5°	1664.1	1640.3	1564.5	1422.3	1285.7	1120.9	989.5	883.4	858.8
150°	1668.2	1643.4	1576.7	1442.8	1317.3	1159.4	1036.3	935.3	911.7
152.5°	1665.2	1646.3	1585.8	1460.3	1343.7	1196.8	1079.0	985.2	963.5
155°	1666.9	1649.5	1593.2	1484.0	1377.0	1249.0	1143.1	1059.9	1037.5
157.5°	1659.3	1647.9	1598.3	1502.1	1407.8	1295.7	1201.8	1131.9	1109.3
160°	1659.3	1641.9	1598.3	1512.5	1429.2	1326.0	1238.4	1175.7	1157.1
162.5°	1648.1	1632.7	1597.3	1519.9	1449.5	1354.3	1273.0	1214.5	1200.8
165°	1627.5	1615.1	1591.9	1529.7	1474.9	1392.9	1322.4	1270.0	1261.3
167.5°	1611.5	1594.4	1581.8	1529.3	1492.2	1420.6	1364.1	1320.7	1315.8
170°	1593.2	1582.0	1571.6	1526.5	1500.4	1440.7	1393.6	1350.2	1345.3
172.5°	1569.8	1563.6	1558.4	1524.6	1505.5	1457.7	1419.0	1379.6	1370.7
175°	1533.4	1538.4	1537.3	1520.5	1510.6	1479.5	1455.9	1427.6	1416.5
177.5°	1511.1	1509.1	1514.1	1511.0	1510.0	1491.1	1484.6	1465.4	1471.4
180°	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8	1497.8

(END OF REPORT)