

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: P522461

Luminaire Tested: **SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522461
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

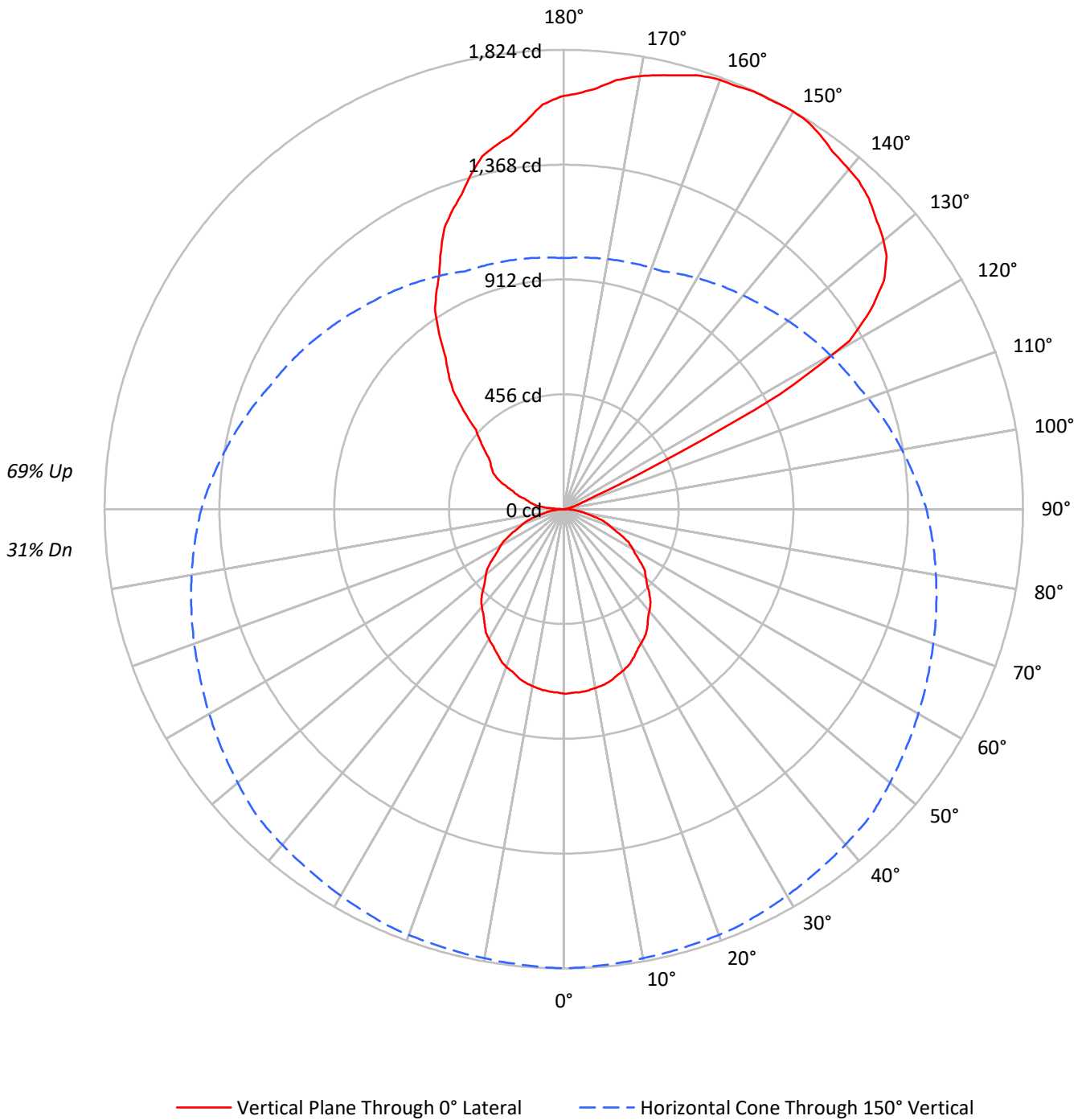
Lumens per Lamp: N/A
Luminaire Lumens: 6616.4 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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°	11841	11841	11841
5°	11835	11953	11784
10°	11817	11937	11732
15°	11804	11873	11646
20°	11720	11809	11503
25°	11574	11685	11313
30°	11410	11566	11156
35°	11280	11424	10949
40°	11070	11268	10760
45°	10869	11109	10510
50°	10590	10906	10248
55°	10367	10660	9866
60°	10069	10440	9494
65°	9513	9990	8951
70°	8988	9531	8346
75°	8291	8746	7636
80°	7197	7680	6416
85°	5428	6002	4854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.0
10°-20°	198.3	3.0
20°-30°	298.2	4.5
30°-40°	356.1	5.4
40°-50°	366.3	5.5
50°-60°	329.6	5.0
60°-70°	249.2	3.8
70°-80°	141.7	2.1
80°-90°	37.5	0.6
90°-100°	43.0	0.7
100°-110°	186.4	2.8
110°-120°	531.6	8.0
120°-130°	808.3	12.2
130°-140°	874.2	13.2
140°-150°	835.3	12.6
150°-160°	687.0	10.4
160°-170°	448.9	6.8
170°-180°	155.3	2.3
0°-30°	565.9	8.6
0°-40°	922.0	13.9
0°-60°	1617.8	24.5
0°-90°	2046.2	30.9
90°-120°	761.1	11.5
90°-150°	3279.0	49.6
90°-180°	4570.0	69.1
0°-180°	6616.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	733	733	733	733	733	
5°	730	730	738	730	727	69
15°	706	707	710	702	697	199
25°	650	656	656	646	635	299
35°	572	578	580	567	556	357
45°	476	482	486	471	460	367
55°	368	376	379	364	350	329
65°	249	256	262	246	234	248
75°	133	137	140	130	122	140
85°	29	34	32	29	26	35
90°	0	0	0	0	0	1
95°	7	10	29	70	65	9
105°	43	110	216	147	158	50
115°	392	1043	538	256	289	539
125°	1563	1375	861	423	363	1373
135°	1730	1566	1132	702	556	1333
145°	1802	1686	1349	998	851	1129
155°	1823	1742	1506	1250	1134	842
165°	1780	1741	1613	1446	1379	506
175°	1677	1681	1652	1592	1549	162
180°	1638	1638	1638	1638	1638	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4
2.5°	730.0	732.5	732.5	731.8	738.4	731.8	733.4	731.6	729.2
5°	730.2	730.2	730.2	729.4	737.5	728.3	730.2	727.1	727.1
7.5°	725.8	726.0	726.9	724.2	733.2	722.9	724.8	721.5	722.3
10°	720.8	721.8	721.9	720.0	728.1	717.9	719.8	715.6	715.6
12.5°	715.8	716.0	716.8	714.1	722.3	711.2	713.1	708.9	708.0
15°	706.2	706.2	707.2	703.2	710.3	700.1	702.0	696.7	696.7
17.5°	692.1	691.9	694.4	689.2	696.5	685.1	688.8	682.3	680.4
20°	682.1	681.1	685.2	679.1	687.3	675.1	677.9	670.6	669.5
22.5°	669.5	668.5	674.4	668.3	675.6	663.3	666.2	656.4	656.2
25°	649.7	648.6	655.9	649.8	655.9	644.7	646.5	636.0	635.0
27.5°	627.1	627.1	635.7	628.5	635.4	624.2	625.0	614.3	614.3
30°	612.0	612.0	621.4	614.2	620.4	609.1	609.9	598.4	598.4
32.5°	596.1	596.1	603.8	598.3	604.5	593.2	593.2	581.7	581.7
35°	572.3	570.2	578.5	573.4	579.6	568.3	567.0	555.5	555.5
37.5°	543.6	542.6	551.7	548.1	553.0	542.0	539.0	527.9	528.9
40°	525.2	524.2	532.5	530.5	534.6	524.4	518.9	509.5	510.5
42.5°	505.9	504.1	512.4	511.3	515.3	505.1	500.5	490.2	490.4
45°	476.0	476.0	482.3	482.4	486.5	475.2	470.8	460.3	460.3
47.5°	444.2	444.4	450.9	451.2	455.1	445.3	440.4	429.1	428.9
50°	421.6	422.6	430.0	431.1	434.2	426.0	419.5	409.0	408.0
52.5°	402.4	400.9	408.2	410.1	412.4	404.2	397.8	387.3	386.2
55°	368.3	369.3	375.6	378.7	378.7	371.6	364.1	353.5	350.5
57.5°	334.4	335.8	340.8	344.8	345.9	337.9	330.2	320.7	316.6
60°	311.8	310.7	319.1	322.2	323.3	316.1	307.6	298.1	294.0
62.5°	287.5	288.1	294.0	298.8	299.8	291.9	284.1	272.1	268.9
65°	249.0	252.1	256.3	259.5	261.5	255.4	245.8	236.4	234.3
67.5°	213.8	215.9	220.1	225.0	226.2	219.2	210.7	202.5	200.2
70°	190.4	192.4	196.7	199.9	201.9	195.8	187.3	179.9	176.8
72.5°	167.0	169.0	172.4	175.6	177.6	171.5	163.8	157.3	155.0
75°	132.9	134.9	137.0	139.2	140.2	136.1	129.7	123.4	122.4
77.5°	99.2	101.2	103.6	106.3	105.2	102.4	96.2	92.0	90.8
80°	77.4	79.5	82.6	83.7	82.6	80.6	75.3	71.1	69.0
82.5°	57.3	59.4	62.6	62.7	60.9	60.5	56.1	52.7	51.5
85°	29.3	31.3	33.5	34.5	32.4	32.4	29.3	26.2	26.2
87.5°	5.9	7.5	10.0	12.5	10.0	10.9	8.4	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.2	2.2	2.2	4.5	6.7	24.1	26.7	23.4	23.4
95°	7.0	7.0	9.7	30.6	29.2	49.6	69.5	65.3	65.3
97.5°	14.2	15.5	22.2	90.4	68.1	66.2	94.0	104.6	106.5
100°	20.9	22.2	33.4	147.7	101.5	86.5	102.9	122.4	126.5
102.5°	28.6	31.1	53.4	232.4	142.7	101.6	117.3	134.7	139.9
105°	43.1	47.2	109.8	389.5	215.5	132.6	147.4	154.4	158.5
107.5°	64.0	80.5	295.9	547.3	305.9	175.1	190.8	189.7	193.3
110°	86.2	120.2	511.7	633.6	372.6	208.1	208.6	219.6	215.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	142.9	238.9	763.0	716.7	439.4	247.7	225.2	249.7	251.1
115°	392.1	673.5	1042.8	833.1	538.1	317.8	255.8	279.7	289.2
117.5°	972.1	1171.7	1186.0	936.4	636.5	396.2	290.9	301.4	313.9
120°	1318.1	1358.8	1252.7	999.9	702.1	452.0	319.8	315.9	329.5
122.5°	1453.8	1439.1	1307.2	1058.9	766.6	511.1	355.4	333.6	342.9
125°	1562.8	1524.7	1375.1	1140.7	860.6	599.6	422.7	362.9	362.9
127.5°	1627.8	1583.5	1437.4	1213.3	945.4	689.1	503.6	410.4	397.6
130°	1665.7	1618.1	1475.2	1263.4	1001.1	746.8	560.3	451.4	431.0
132.5°	1694.6	1651.3	1510.8	1302.7	1055.6	803.5	617.0	502.3	468.8
135°	1729.6	1692.9	1565.5	1362.9	1131.8	888.4	702.1	590.1	556.1
137.5°	1752.1	1723.6	1614.8	1412.3	1202.4	972.6	788.1	675.6	644.8
140°	1764.4	1741.3	1639.2	1441.5	1245.8	1026.9	848.1	733.5	704.9
142.5°	1776.6	1757.8	1657.0	1474.0	1288.0	1081.1	907.1	792.4	761.6
145°	1801.9	1780.2	1686.5	1513.1	1348.7	1157.0	998.3	878.1	850.9
147.5°	1819.7	1793.6	1710.7	1555.2	1405.9	1225.7	1082.0	966.0	939.1
150°	1824.2	1797.0	1724.0	1577.7	1440.4	1267.8	1133.1	1022.7	996.9
152.5°	1820.8	1800.2	1734.1	1596.9	1469.3	1308.6	1179.9	1077.3	1053.6
155°	1822.8	1803.7	1742.1	1622.7	1505.8	1365.7	1249.9	1159.0	1134.5
157.5°	1814.4	1801.9	1747.7	1642.5	1539.4	1416.8	1314.2	1237.7	1213.0
160°	1814.4	1795.4	1747.7	1653.9	1562.8	1449.9	1354.2	1285.6	1265.2
162.5°	1802.2	1785.3	1746.6	1662.0	1585.0	1480.9	1392.0	1328.0	1313.1
165°	1779.7	1766.1	1740.7	1672.6	1612.8	1523.1	1446.0	1388.8	1379.2
167.5°	1762.1	1743.4	1729.6	1672.2	1631.7	1553.4	1491.6	1444.2	1438.7
170°	1742.1	1729.9	1718.5	1669.2	1640.6	1575.4	1523.8	1476.4	1471.0
172.5°	1716.5	1709.7	1704.0	1667.1	1646.2	1594.0	1551.6	1508.6	1498.8
175°	1676.8	1682.2	1680.9	1662.6	1651.7	1617.8	1592.0	1561.1	1548.9
177.5°	1652.3	1650.1	1655.6	1652.3	1651.2	1630.5	1623.4	1602.4	1608.9
180°	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8

(END OF REPORT)