

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: P522465

Luminaire Tested: **SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522465
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-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 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

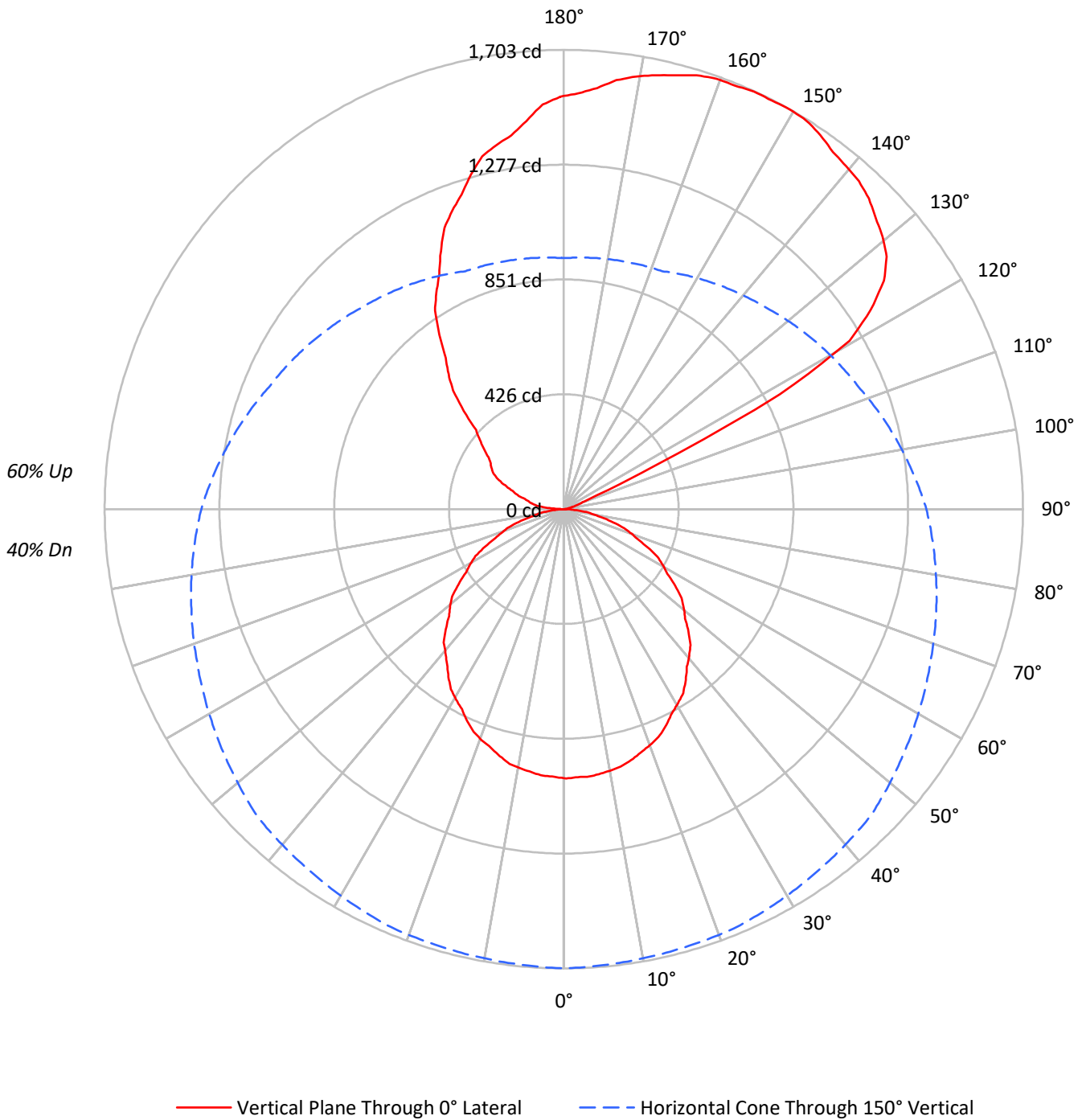
Lumens per Lamp: N/A
Luminaire Lumens: 7055.6 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 67.2
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	79	73	68	79	72	67	63	59	55	52	47	45	42	36	34	33	28
3	79	70	62	57	72	64	57	52	52	48	44	42	38	36	32	30	28	23
4	72	61	54	48	65	56	49	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	33	28	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16130	16130	16130
5°	16144	16287	16065
10°	16123	16234	15962
15°	16062	16177	15818
20°	15957	16074	15622
25°	15763	15935	15380
30°	15567	15748	15129
35°	15341	15534	14879
40°	15087	15314	14533
45°	14805	15095	14248
50°	14473	14815	13908
55°	14103	14514	13498
60°	13656	14221	12991
65°	13058	13769	12348
70°	12354	13138	11434
75°	11273	11940	10293
80°	9809	10628	8805
85°	7410	8318	6150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	1.3
10°-20°	270.0	3.8
20°-30°	406.2	5.8
30°-40°	485.2	6.9
40°-50°	498.8	7.1
50°-60°	448.9	6.4
60°-70°	341.6	4.8
70°-80°	193.6	2.7
80°-90°	50.9	0.7
90°-100°	40.2	0.6
100°-110°	174.0	2.5
110°-120°	496.2	7.0
120°-130°	754.5	10.7
130°-140°	816.1	11.6
140°-150°	779.8	11.1
150°-160°	641.3	9.1
160°-170°	419.1	5.9
170°-180°	144.9	2.1
0°-30°	770.7	10.9
0°-40°	1255.8	17.8
0°-60°	2203.5	31.2
0°-90°	2789.5	39.5
90°-120°	710.4	10.1
90°-150°	3060.8	43.4
90°-180°	4266.0	60.5
0°-180°	7055.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	999	999	999	999	999	
5°	996	996	1005	993	991	95
15°	961	963	968	955	946	271
25°	885	894	894	879	863	408
35°	778	789	788	772	755	487
45°	648	657	661	642	624	500
55°	501	511	516	496	480	448
65°	342	352	360	339	323	339
75°	181	186	191	176	165	192
85°	40	45	45	40	33	48
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-075D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0
2.5°	995.1	998.2	998.2	998.4	1006.1	997.7	997.5	997.4	992.8
5°	996.1	996.1	996.1	994.4	1004.9	993.4	993.2	991.2	991.2
7.5°	990.4	988.7	989.8	987.7	997.3	984.9	985.5	983.4	983.0
10°	983.4	982.4	984.4	980.7	990.2	977.8	978.5	975.5	973.6
12.5°	975.6	974.6	977.3	972.1	982.4	970.0	969.9	966.2	965.8
15°	960.9	960.9	962.9	959.2	967.8	955.4	955.1	951.1	946.3
17.5°	943.6	941.5	946.1	940.0	948.8	934.9	935.9	930.2	924.8
20°	928.7	925.8	933.6	926.0	935.5	919.3	921.9	913.0	909.2
22.5°	911.5	909.4	918.0	911.1	919.9	904.5	905.5	894.3	891.2
25°	884.8	883.8	893.6	885.9	894.5	878.3	878.9	867.1	863.3
27.5°	855.3	854.5	865.2	857.6	865.0	850.0	850.4	837.4	832.6
30°	835.0	835.0	845.7	838.0	844.7	830.4	830.1	816.3	811.5
32.5°	813.1	812.3	823.0	816.9	822.9	807.8	806.6	793.6	788.9
35°	778.3	778.3	789.1	782.4	788.1	774.7	771.5	758.7	754.9
37.5°	741.6	740.6	751.4	747.2	752.3	738.2	733.8	720.1	719.1
40°	715.8	714.9	725.6	723.7	726.6	713.2	708.0	694.2	689.5
42.5°	689.3	689.8	699.0	697.2	700.8	687.4	682.2	667.7	665.2
45°	648.4	647.5	657.2	656.4	661.1	647.8	641.6	625.9	624.0
47.5°	605.9	606.2	614.8	615.9	618.8	606.5	599.2	583.7	581.8
50°	576.2	578.1	585.9	587.0	589.8	578.4	570.3	555.6	553.7
52.5°	547.3	548.4	556.3	559.6	560.2	550.2	540.6	526.7	524.8
55°	501.0	503.8	510.7	514.7	515.6	507.0	496.1	482.4	479.5
57.5°	454.1	456.0	465.4	469.9	470.1	461.1	450.2	437.4	432.8
60°	422.9	424.8	432.6	439.5	440.4	429.9	418.9	406.2	402.3
62.5°	390.8	392.7	400.6	407.4	408.4	398.7	386.9	374.2	371.1
65°	341.8	343.7	351.6	359.4	360.4	350.8	338.9	326.1	323.2
67.5°	293.8	295.7	303.3	309.8	311.9	301.6	290.6	278.8	275.0
70°	261.7	263.6	270.5	275.5	278.3	268.8	257.8	246.0	242.2
72.5°	228.1	229.3	236.1	241.8	242.4	234.4	224.2	214.8	211.7
75°	180.7	182.6	186.5	192.4	191.4	183.8	175.8	168.9	165.0
77.5°	135.2	137.3	141.0	144.9	145.5	138.4	131.6	124.7	122.1
80°	105.5	108.3	111.3	115.2	114.3	109.5	103.5	96.6	94.7
82.5°	78.1	80.2	84.0	87.1	84.6	81.3	77.0	70.1	68.2
85°	40.0	41.0	44.9	47.8	44.9	44.0	40.0	35.1	33.2
87.5°	8.6	10.1	13.3	17.1	14.1	14.8	11.7	7.8	7.0
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)