

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: P522467

Luminaire Tested: **SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522467
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

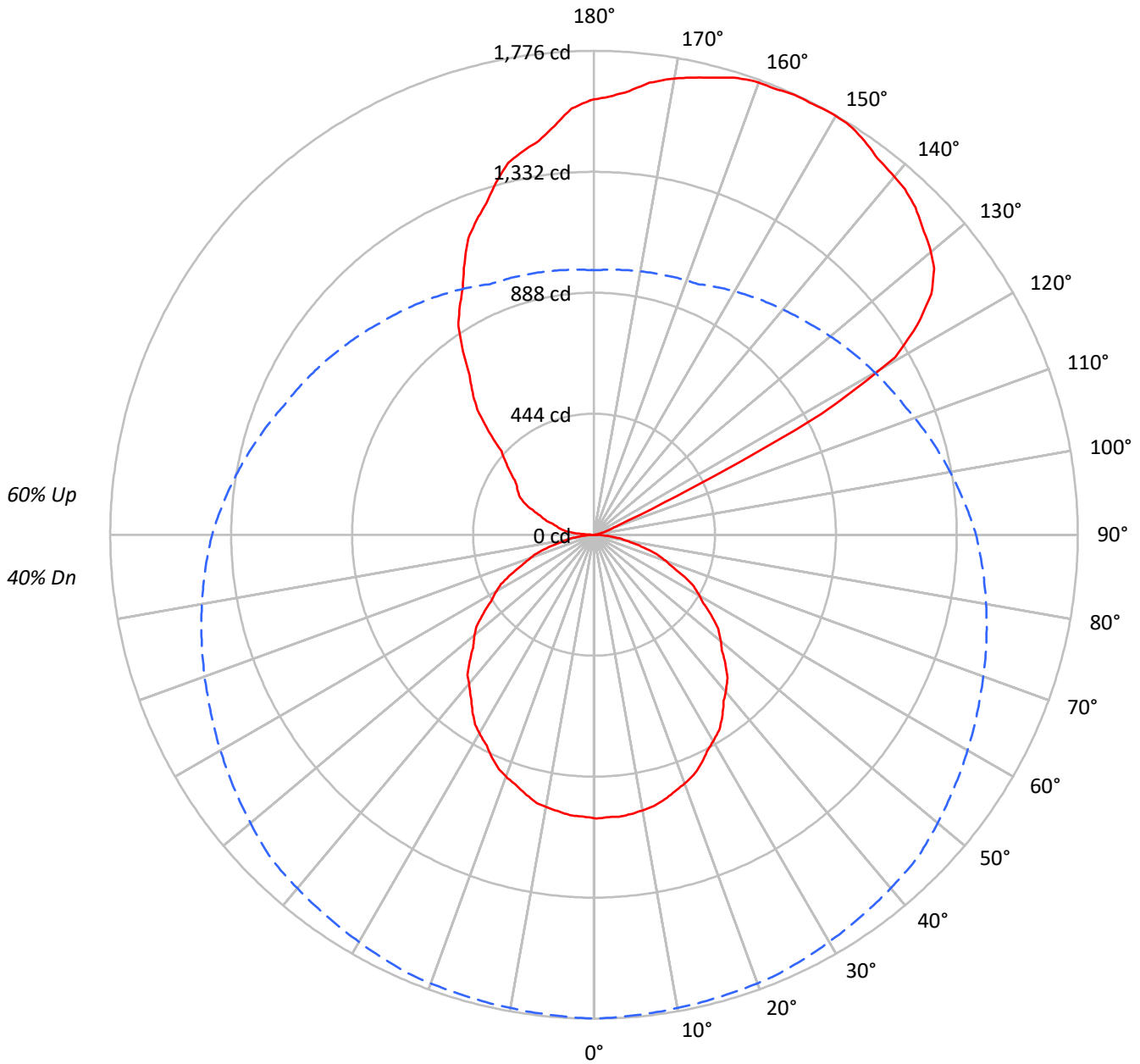
Lumens per Lamp: N/A
Luminaire Lumens: 7357.1 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 150° Vertical



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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°	16819	16819	16819
5°	16835	16982	16752
10°	16811	16928	16644
15°	16749	16868	16493
20°	16639	16761	16289
25°	16436	16618	16037
30°	16231	16421	15776
35°	15997	16198	15514
40°	15732	15968	15152
45°	15438	15742	14858
50°	15091	15448	14503
55°	14705	15136	14075
60°	14237	14832	13546
65°	13616	14357	12879
70°	12883	13700	11920
75°	11753	12452	10736
80°	10228	11074	9186
85°	7744	8670	6410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.3
10°-20°	281.6	3.8
20°-30°	423.5	5.8
30°-40°	505.9	6.9
40°-50°	520.1	7.1
50°-60°	468.0	6.4
60°-70°	356.2	4.8
70°-80°	201.8	2.7
80°-90°	53.1	0.7
90°-100°	41.9	0.6
100°-110°	181.5	2.5
110°-120°	517.4	7.0
120°-130°	786.8	10.7
130°-140°	850.9	11.6
140°-150°	813.1	11.1
150°-160°	668.7	9.1
160°-170°	437.0	5.9
170°-180°	151.1	2.1
0°-30°	803.6	10.9
0°-40°	1309.5	17.8
0°-60°	2297.6	31.2
0°-90°	2908.8	39.5
90°-120°	740.8	10.1
90°-150°	3191.6	43.4
90°-180°	4448.0	60.5
0°-180°	7357.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1039	1039	1048	1036	1034	99
15°	1002	1004	1009	996	987	283
25°	923	932	933	916	900	425
35°	812	823	822	804	787	507
45°	676	685	689	669	651	521
55°	522	533	538	517	500	467
65°	356	367	376	353	337	353
75°	188	194	200	183	172	200
85°	42	47	47	42	35	50
90°	0	0	0	0	0	2
95°	7	10	28	68	64	9
105°	42	107	210	144	154	48
115°	382	1015	524	249	282	525
125°	1521	1338	838	411	353	1337
135°	1684	1524	1102	683	541	1298
145°	1754	1642	1313	972	828	1099
155°	1774	1696	1466	1217	1104	820
165°	1732	1694	1570	1407	1342	492
175°	1632	1636	1608	1550	1508	158
180°	1594	1594	1594	1594	1594	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	1037.6	1040.8	1040.9	1041.1	1049.0	1040.3	1040.1	1040.0	1035.2
5°	1038.7	1038.7	1038.7	1036.9	1047.8	1035.9	1035.6	1033.6	1033.6
7.5°	1032.8	1031.0	1032.1	1029.9	1039.9	1026.9	1027.7	1025.4	1025.0
10°	1025.4	1024.4	1026.4	1022.6	1032.5	1019.6	1020.3	1017.2	1015.2
12.5°	1017.3	1016.3	1019.1	1013.6	1024.4	1011.5	1011.4	1007.5	1007.1
15°	1002.0	1002.0	1004.0	1000.2	1009.1	996.2	995.9	991.7	986.7
17.5°	983.9	981.7	986.5	980.2	989.4	974.8	975.9	969.9	964.3
20°	968.4	965.4	973.5	965.6	975.5	958.6	961.3	952.0	948.0
22.5°	950.5	948.3	957.2	950.1	959.2	943.1	944.2	932.5	929.3
25°	922.6	921.6	931.7	923.8	932.8	915.8	916.5	904.2	900.2
27.5°	891.8	891.0	902.2	894.2	902.0	886.3	886.7	873.2	868.2
30°	870.6	870.6	881.8	873.9	880.8	865.9	865.5	851.2	846.2
32.5°	847.8	847.0	858.2	851.8	858.0	842.3	841.1	827.6	822.6
35°	811.6	811.6	822.8	815.8	821.8	807.8	804.5	791.1	787.1
37.5°	773.3	772.3	783.5	779.1	784.5	769.8	765.1	750.9	749.9
40°	746.4	745.4	756.6	754.6	757.6	743.7	738.3	723.9	718.9
42.5°	718.7	719.3	728.9	726.9	730.7	716.8	711.4	696.3	693.7
45°	676.1	675.2	685.3	684.4	689.4	675.4	669.0	652.7	650.7
47.5°	631.7	632.1	641.1	642.2	645.2	632.4	624.8	608.7	606.7
50°	600.8	602.8	611.0	612.1	615.0	603.1	594.7	579.4	577.4
52.5°	570.7	571.8	580.0	583.5	584.1	573.7	563.7	549.2	547.2
55°	522.4	525.4	532.6	536.7	537.7	528.7	517.3	503.0	500.0
57.5°	473.5	475.5	485.3	490.0	490.2	480.8	469.4	456.1	451.3
60°	440.9	442.9	451.1	458.3	459.3	448.3	436.8	423.5	419.5
62.5°	407.5	409.5	417.7	424.9	425.9	415.7	403.4	390.1	387.0
65°	356.4	358.4	366.6	374.8	375.8	365.8	353.3	340.0	337.1
67.5°	306.3	308.3	316.3	323.1	325.2	314.5	303.0	290.7	286.8
70°	272.9	274.9	282.1	287.2	290.2	280.3	268.8	256.5	252.5
72.5°	237.9	239.1	246.2	252.1	252.7	244.4	233.8	224.0	220.8
75°	188.4	190.4	194.5	200.6	199.6	191.6	183.3	176.1	172.1
77.5°	140.9	143.1	147.0	151.1	151.7	144.4	137.3	130.1	127.3
80°	110.0	113.0	116.1	120.1	119.1	114.2	107.9	100.8	98.8
82.5°	81.5	83.7	87.6	90.8	88.2	84.8	80.2	73.1	71.1
85°	41.8	42.7	46.8	49.8	46.8	45.8	41.8	36.6	34.6
87.5°	9.0	10.6	13.8	17.8	14.7	15.5	12.2	8.1	7.3
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	4.4	6.5	23.4	26.0	22.7	22.7
95°	6.8	6.8	9.5	29.7	28.4	48.3	67.7	63.6	63.6
97.5°	13.8	15.1	21.7	88.0	66.3	64.5	91.5	101.8	103.7
100°	20.3	21.6	32.5	143.8	98.8	84.2	100.1	119.2	123.2
102.5°	27.9	30.3	52.0	226.2	138.9	98.9	114.2	131.1	136.1
105°	42.0	45.9	106.9	379.1	209.8	129.0	143.5	150.3	154.3
107.5°	62.3	78.4	288.0	532.7	297.7	170.4	185.7	184.7	188.1
110°	83.9	117.0	498.0	616.8	362.7	202.6	203.0	213.7	209.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	139.1	232.5	742.7	697.6	427.6	241.1	219.2	243.1	244.4
115°	381.6	655.5	1015.0	810.9	523.7	309.4	249.0	272.2	281.5
117.5°	946.2	1140.5	1154.4	911.5	619.5	385.6	283.1	293.4	305.6
120°	1282.9	1322.6	1219.3	973.2	683.4	439.9	311.3	307.5	320.7
122.5°	1415.0	1400.7	1272.4	1030.7	746.2	497.4	345.9	324.7	333.7
125°	1521.1	1484.1	1338.4	1110.3	837.7	583.6	411.4	353.2	353.2
127.5°	1584.5	1541.3	1399.1	1180.9	920.3	670.7	490.2	399.5	387.0
130°	1621.3	1575.0	1435.9	1229.8	974.4	726.9	545.4	439.4	419.5
132.5°	1649.4	1607.3	1470.5	1268.0	1027.4	782.1	600.6	488.9	456.3
135°	1683.5	1647.8	1523.8	1326.6	1101.6	864.7	683.4	574.4	541.3
137.5°	1705.4	1677.7	1571.7	1374.7	1170.3	946.7	767.1	657.6	627.7
140°	1717.4	1694.9	1595.6	1403.1	1212.6	999.5	825.5	713.9	686.1
142.5°	1729.3	1711.0	1612.9	1434.7	1253.7	1052.3	882.9	771.3	741.3
145°	1753.9	1732.7	1641.6	1472.8	1312.7	1126.1	971.7	854.7	828.2
147.5°	1771.2	1745.8	1665.1	1513.8	1368.5	1193.0	1053.2	940.2	914.0
150°	1775.6	1749.1	1678.1	1535.7	1402.0	1234.0	1103.0	995.5	970.3
152.5°	1772.3	1752.2	1687.9	1554.3	1430.2	1273.8	1148.4	1048.6	1025.5
155°	1774.2	1755.7	1695.7	1579.4	1465.6	1329.3	1216.6	1128.1	1104.3
157.5°	1766.1	1753.9	1701.1	1598.7	1498.4	1379.0	1279.2	1204.7	1180.6
160°	1766.1	1747.6	1701.1	1609.8	1521.1	1411.3	1318.1	1251.4	1231.5
162.5°	1754.2	1737.8	1700.0	1617.7	1542.8	1441.4	1354.9	1292.6	1278.1
165°	1732.2	1719.0	1694.4	1628.1	1569.8	1482.5	1407.4	1351.8	1342.5
167.5°	1715.2	1696.9	1683.5	1627.7	1588.3	1512.0	1451.8	1405.7	1400.4
170°	1695.7	1683.8	1672.7	1624.7	1596.9	1533.4	1483.2	1437.1	1431.8
172.5°	1670.8	1664.2	1658.6	1622.7	1602.3	1551.5	1510.3	1468.4	1458.9
175°	1632.1	1637.4	1636.2	1618.3	1607.7	1574.7	1549.5	1519.5	1507.6
177.5°	1608.3	1606.2	1611.5	1608.3	1607.2	1587.1	1580.1	1559.7	1566.1
180°	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2

(END OF REPORT)