

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: P522468

Luminaire Tested: **SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522468
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

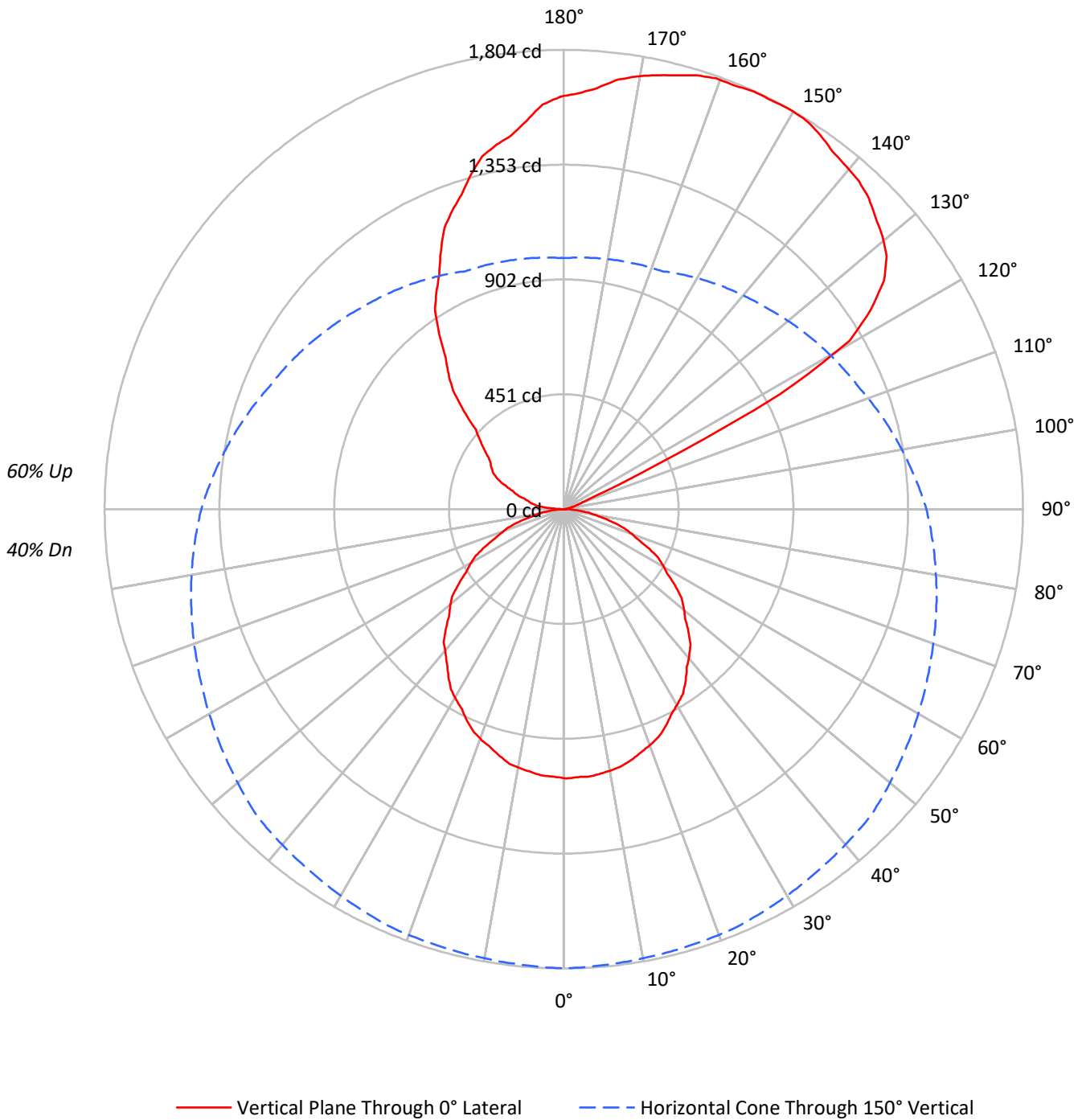
Lumens per Lamp: N/A
Luminaire Lumens: 7475.8 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 67.1
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°	17090	17090	17090
5°	17105	17256	17021
10°	17084	17202	16913
15°	17020	17140	16759
20°	16907	17033	16551
25°	16702	16885	16295
30°	16494	16686	16032
35°	16255	16458	15764
40°	15985	16225	15397
45°	15689	15995	15098
50°	15335	15699	14737
55°	14942	15378	14300
60°	14467	15071	13766
65°	13838	14586	13085
70°	13091	13921	12113
75°	11940	12651	10911
80°	10386	11260	9335
85°	7855	8818	6521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	1.3
10°-20°	286.1	3.8
20°-30°	430.4	5.8
30°-40°	514.1	6.9
40°-50°	528.5	7.1
50°-60°	475.6	6.4
60°-70°	361.9	4.8
70°-80°	205.1	2.7
80°-90°	53.9	0.7
90°-100°	42.6	0.6
100°-110°	184.4	2.5
110°-120°	525.8	7.0
120°-130°	799.5	10.7
130°-140°	864.7	11.6
140°-150°	826.2	11.1
150°-160°	679.5	9.1
160°-170°	444.0	5.9
170°-180°	153.6	2.1
0°-30°	816.6	10.9
0°-40°	1330.6	17.8
0°-60°	2334.7	31.2
0°-90°	2955.7	39.5
90°-120°	752.7	10.1
90°-150°	3243.1	43.4
90°-180°	4520.0	60.5
0°-180°	7475.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1058	1058	1058	1058	1058	
5°	1055	1055	1065	1052	1050	100
15°	1018	1020	1025	1012	1003	287
25°	938	947	948	931	915	432
35°	825	836	835	817	800	516
45°	687	696	700	680	661	530
55°	531	541	546	526	508	474
65°	362	372	382	359	342	359
75°	191	198	203	186	175	203
85°	42	48	48	42	35	50
90°	0	0	0	0	0	2
95°	7	10	29	69	65	9
105°	43	109	213	146	157	49
115°	388	1031	532	253	286	533
125°	1546	1360	851	418	359	1358
135°	1711	1548	1119	694	550	1319
145°	1782	1668	1334	987	842	1116
155°	1803	1723	1489	1236	1122	833
165°	1760	1722	1595	1430	1364	500
175°	1658	1663	1634	1574	1532	161
180°	1620	1620	1620	1620	1620	



TEST NUMBER: P522468

CATALOG NUMBER: SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5
2.5°	1054.4	1057.6	1057.7	1057.9	1066.0	1057.1	1056.9	1056.8	1051.9
5°	1055.4	1055.4	1055.4	1053.6	1064.7	1052.6	1052.3	1050.2	1050.2
7.5°	1049.4	1047.6	1048.8	1046.5	1056.7	1043.5	1044.2	1042.0	1041.5
10°	1042.0	1041.0	1043.0	1039.1	1049.2	1036.1	1036.8	1033.6	1031.6
12.5°	1033.7	1032.7	1035.5	1030.0	1040.9	1027.8	1027.7	1023.7	1023.3
15°	1018.2	1018.2	1020.2	1016.3	1025.4	1012.3	1012.0	1007.7	1002.6
17.5°	999.7	997.5	1002.4	996.0	1005.3	990.6	991.7	985.5	979.9
20°	984.0	981.0	989.2	981.1	991.3	974.1	976.8	967.4	963.3
22.5°	965.8	963.6	972.6	965.4	974.7	958.3	959.4	947.5	944.3
25°	937.5	936.4	946.8	938.7	947.8	930.6	931.2	918.7	914.7
27.5°	906.2	905.4	916.8	908.7	916.6	900.6	901.0	887.3	882.2
30°	884.7	884.7	896.1	888.0	895.0	879.9	879.5	864.9	859.9
32.5°	861.5	860.7	872.1	865.6	871.9	855.9	854.7	840.9	835.8
35°	824.7	824.7	836.1	828.9	835.0	820.9	817.4	803.9	799.8
37.5°	785.8	784.8	796.1	791.7	797.1	782.2	777.5	763.0	762.0
40°	758.4	757.4	768.8	766.8	769.8	755.7	750.2	735.6	730.5
42.5°	730.3	730.9	740.7	738.7	742.5	728.4	722.9	707.5	704.9
45°	687.1	686.0	696.4	695.4	700.5	686.3	679.8	663.2	661.2
47.5°	641.9	642.3	651.5	652.6	655.6	642.6	634.9	618.5	616.5
50°	610.5	612.5	620.8	621.9	625.0	612.8	604.3	588.7	586.7
52.5°	579.9	581.1	589.4	592.9	593.5	583.0	572.8	558.1	556.1
55°	530.8	533.8	541.2	545.3	546.3	537.2	525.6	511.1	508.0
57.5°	481.1	483.2	493.1	497.9	498.1	488.6	477.0	463.4	458.6
60°	448.0	450.1	458.4	465.6	466.7	455.5	443.9	430.4	426.3
62.5°	414.1	416.1	424.4	431.7	432.7	422.4	410.0	396.4	393.2
65°	362.2	364.2	372.5	380.8	381.8	371.7	359.0	345.5	342.5
67.5°	311.2	313.3	321.4	328.3	330.5	319.6	307.9	295.4	291.4
70°	277.3	279.3	286.6	291.9	294.9	284.8	273.2	260.7	256.6
72.5°	241.7	242.9	250.2	256.2	256.8	248.3	237.6	227.6	224.3
75°	191.4	193.4	197.6	203.8	202.8	194.7	186.2	178.9	174.9
77.5°	143.2	145.4	149.4	153.6	154.2	146.7	139.5	132.2	129.3
80°	111.7	114.8	118.0	122.1	121.1	116.0	109.7	102.4	100.4
82.5°	82.8	85.0	89.0	92.2	89.6	86.2	81.5	74.2	72.2
85°	42.4	43.4	47.6	50.6	47.6	46.6	42.4	37.2	35.2
87.5°	9.1	10.7	14.1	18.1	14.9	15.7	12.4	8.3	7.4
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	6.6	23.8	26.4	23.1	23.1
95°	6.9	6.9	9.6	30.2	28.9	49.0	68.8	64.6	64.6
97.5°	14.0	15.4	22.0	89.4	67.4	65.5	93.0	103.5	105.3
100°	20.6	22.0	33.0	146.1	100.4	85.6	101.8	121.1	125.1
102.5°	28.3	30.7	52.8	229.8	141.1	100.5	116.1	133.2	138.3
105°	42.6	46.7	108.6	385.3	213.1	131.1	145.8	152.7	156.8
107.5°	63.3	79.7	292.6	541.3	302.5	173.2	188.7	187.6	191.1
110°	85.3	118.9	506.1	626.7	368.5	205.8	206.3	217.2	213.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	141.4	236.3	754.7	708.8	434.5	245.0	222.8	247.0	248.4
115°	387.8	666.1	1031.4	824.0	532.2	314.4	253.0	276.6	286.0
117.5°	961.5	1158.9	1173.0	926.2	629.5	391.8	287.7	298.1	310.5
120°	1303.6	1344.0	1239.0	988.9	694.4	447.0	316.3	312.5	325.9
122.5°	1437.9	1423.3	1292.9	1047.3	758.3	505.5	351.5	330.0	339.1
125°	1545.7	1508.0	1360.0	1128.2	851.2	593.1	418.0	358.9	358.9
127.5°	1610.0	1566.2	1421.6	1200.0	935.1	681.5	498.1	405.9	393.3
130°	1647.4	1600.4	1459.0	1249.6	990.1	738.7	554.2	446.5	426.3
132.5°	1676.0	1633.3	1494.2	1288.5	1044.0	794.7	610.3	496.8	463.7
135°	1710.7	1674.4	1548.4	1347.9	1119.4	878.7	694.4	583.7	550.1
137.5°	1733.0	1704.7	1597.1	1396.8	1189.2	962.0	779.4	668.2	637.8
140°	1745.1	1722.2	1621.3	1425.8	1232.1	1015.7	838.8	725.4	697.2
142.5°	1757.2	1738.6	1638.9	1457.9	1273.9	1069.3	897.1	783.7	753.3
145°	1782.2	1760.7	1668.1	1496.6	1333.9	1144.3	987.4	868.5	841.6
147.5°	1799.8	1774.0	1692.0	1538.2	1390.5	1212.3	1070.1	955.4	928.8
150°	1804.2	1777.3	1705.2	1560.5	1424.7	1253.9	1120.7	1011.5	986.0
152.5°	1800.9	1780.5	1715.1	1579.4	1453.3	1294.3	1166.9	1065.5	1042.1
155°	1802.8	1784.0	1723.1	1604.9	1489.3	1350.8	1236.3	1146.3	1122.1
157.5°	1794.6	1782.2	1728.6	1624.5	1522.6	1401.3	1299.8	1224.1	1199.7
160°	1794.6	1775.7	1728.6	1635.8	1545.7	1434.1	1339.4	1271.6	1251.4
162.5°	1782.5	1765.8	1727.5	1643.8	1567.7	1464.7	1376.8	1313.5	1298.7
165°	1760.2	1746.7	1721.7	1654.3	1595.2	1506.4	1430.2	1373.6	1364.1
167.5°	1742.9	1724.3	1710.7	1653.9	1613.9	1536.4	1475.3	1428.4	1423.0
170°	1723.1	1711.0	1699.7	1650.9	1622.7	1558.1	1507.2	1460.3	1454.9
172.5°	1697.8	1691.0	1685.4	1648.9	1628.2	1576.5	1534.7	1492.1	1482.4
175°	1658.4	1663.8	1662.6	1644.4	1633.7	1600.1	1574.5	1544.0	1531.9
177.5°	1634.2	1632.1	1637.5	1634.2	1633.1	1612.7	1605.6	1584.9	1591.3
180°	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9	1619.9

(END OF REPORT)