

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: P522484

Luminaire Tested: **SQW-F-100U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522484
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-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 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

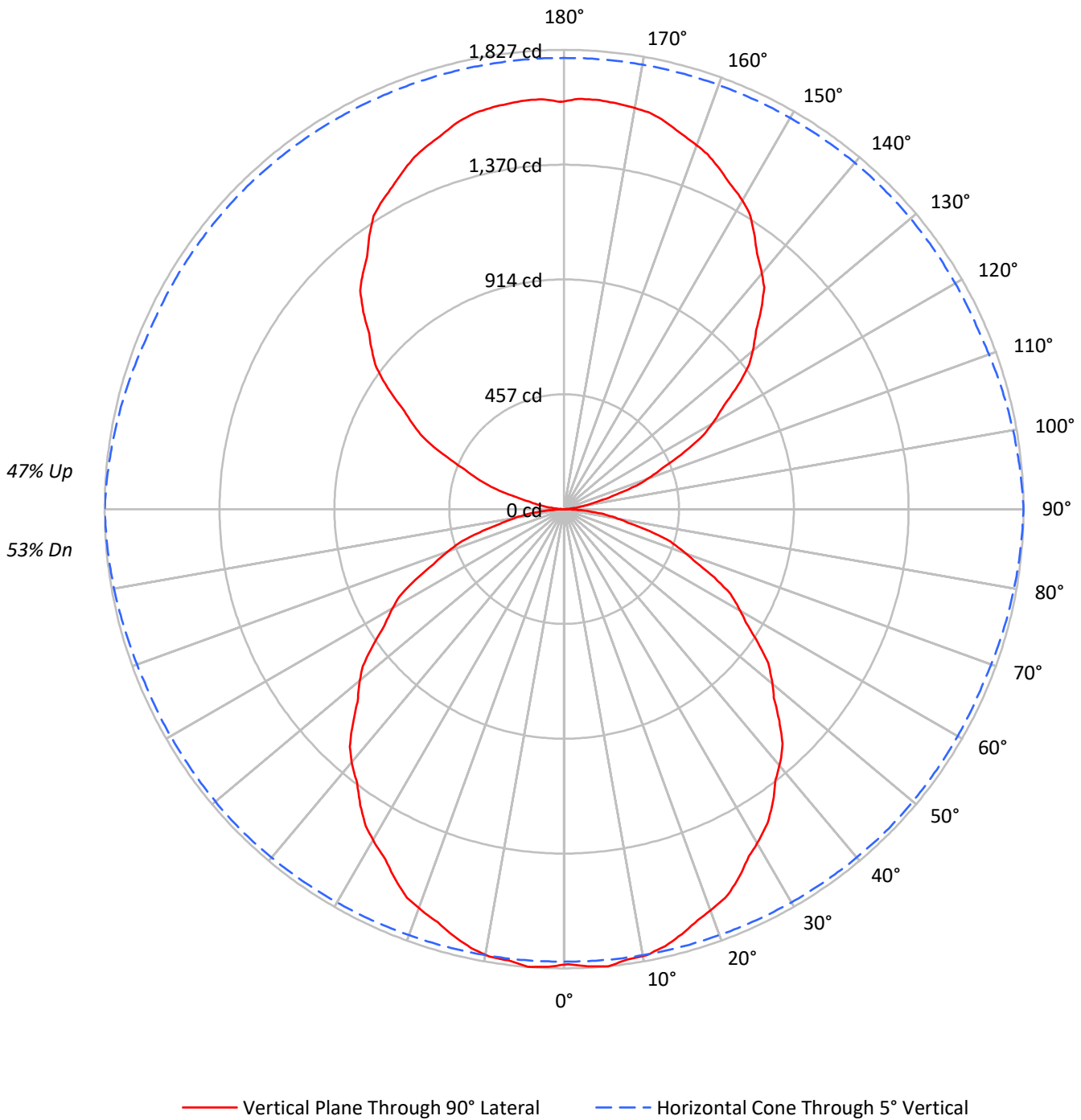
Lumens per Lamp: N/A
Luminaire Lumens: 9574.4 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 94.5
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	98	94	90	86	91	87	84	81	74	72	69	63	61	59	52	50	49	44
2	89	82	76	70	82	76	70	66	65	61	57	55	52	49	45	43	41	37
3	81	72	64	58	75	67	60	55	57	52	48	48	45	41	40	37	35	31
4	74	63	55	49	69	59	52	46	51	45	41	43	39	35	36	33	30	26
5	68	56	48	42	63	53	45	40	45	39	35	38	34	31	32	29	26	23
6	63	51	42	36	58	47	40	34	41	35	31	35	30	27	29	26	23	20
7	58	46	38	32	54	43	35	30	37	31	27	32	27	24	26	23	20	18
8	54	41	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29237	29237	29237
5°	29180	29616	29096
10°	29229	29586	28857
15°	29195	29334	28866
20°	28909	29122	28251
25°	28461	28848	27872
30°	28280	28493	27509
35°	27839	28206	26840
40°	27457	27914	26519
45°	26909	27382	25848
50°	26302	26899	25314
55°	25633	26244	24408
60°	24826	25762	23621
65°	23717	25100	22254
70°	22419	23741	20908
75°	20524	21946	18846
80°	17703	19052	15974
85°	12653	14765	11115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	1.8
10°-20°	489.4	5.1
20°-30°	736.4	7.7
30°-40°	879.6	9.2
40°-50°	903.9	9.4
50°-60°	812.5	8.5
60°-70°	617.6	6.5
70°-80°	351.9	3.7
80°-90°	91.6	1.0
90°-100°	42.6	0.4
100°-110°	184.4	1.9
110°-120°	525.8	5.5
120°-130°	799.5	8.3
130°-140°	864.7	9.0
140°-150°	826.2	8.6
150°-160°	679.5	7.1
160°-170°	444.0	4.6
170°-180°	153.6	1.6
0°-30°	1397.2	14.6
0°-40°	2276.8	23.8
0°-60°	3993.1	41.7
0°-90°	5054.3	52.8
90°-120°	752.7	7.9
90°-150°	3243.1	33.9
90°-180°	4520.0	47.2
0°-180°	9574.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1811	1811	1811	1811	1811	
5°	1800	1812	1827	1799	1795	171
15°	1747	1740	1755	1735	1727	492
25°	1598	1624	1619	1599	1564	739
35°	1412	1433	1431	1399	1362	883
45°	1178	1192	1199	1161	1132	906
55°	911	929	932	891	867	812
65°	621	635	657	614	582	614
75°	329	340	352	323	302	348
85°	68	82	80	71	60	84
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: P522484

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8
2.5°	1808.3	1806.7	1814.1	1806.1	1821.5	1813.4	1808.3	1811.2	1795.0
5°	1800.4	1804.5	1811.8	1805.1	1827.3	1794.9	1799.4	1796.3	1795.2
7.5°	1794.4	1797.6	1795.7	1791.5	1809.5	1788.9	1787.0	1780.3	1778.3
10°	1782.8	1786.9	1780.8	1783.3	1804.6	1774.2	1774.5	1758.0	1760.1
12.5°	1761.3	1770.2	1768.3	1759.4	1784.7	1759.2	1764.6	1752.9	1748.5
15°	1746.6	1737.5	1740.4	1742.7	1754.9	1726.6	1735.2	1720.9	1726.9
17.5°	1715.6	1709.9	1711.8	1705.7	1719.7	1690.6	1695.3	1683.8	1679.8
20°	1682.5	1682.5	1684.5	1681.7	1694.9	1666.5	1668.0	1648.2	1644.2
22.5°	1657.6	1653.6	1664.7	1656.0	1667.6	1640.0	1639.8	1615.4	1624.3
25°	1597.6	1602.7	1624.5	1605.2	1619.3	1584.9	1598.6	1571.6	1564.5
27.5°	1551.7	1553.3	1565.3	1554.8	1564.7	1538.2	1550.4	1516.3	1506.1
30°	1516.9	1512.9	1535.5	1519.2	1528.3	1509.1	1510.7	1473.5	1475.5
32.5°	1468.9	1469.7	1495.0	1483.5	1487.7	1462.0	1466.8	1440.1	1429.2
35°	1412.4	1412.4	1433.1	1420.9	1431.0	1399.7	1398.9	1370.8	1361.7
37.5°	1346.6	1340.1	1365.2	1358.8	1366.7	1337.5	1327.3	1300.7	1295.5
40°	1302.7	1298.7	1317.2	1313.3	1324.4	1296.1	1281.0	1256.2	1258.2
42.5°	1246.4	1250.5	1265.9	1267.7	1273.9	1243.2	1233.8	1205.7	1207.7
45°	1178.5	1176.5	1192.0	1191.1	1199.2	1172.9	1161.0	1127.9	1132.0
47.5°	1094.3	1097.2	1113.8	1112.0	1123.1	1099.6	1080.5	1058.4	1053.3
50°	1047.1	1049.2	1061.6	1063.9	1070.9	1046.7	1031.6	1008.8	1007.8
52.5°	990.0	988.0	1006.2	1010.8	1016.3	998.5	979.5	953.3	949.9
55°	910.6	911.6	929.2	936.3	932.3	920.1	890.9	865.1	867.1
57.5°	823.4	830.9	839.2	851.6	852.4	832.8	813.7	788.6	784.5
60°	768.8	769.8	785.4	797.8	797.8	776.5	753.3	731.5	731.5
62.5°	706.7	711.8	724.9	736.6	742.3	725.1	696.2	673.6	671.9
65°	620.8	621.8	635.3	651.0	657.0	633.8	613.6	587.6	582.5
67.5°	532.1	536.3	547.2	559.5	566.6	541.5	520.3	500.0	501.6
70°	474.9	475.9	484.2	499.8	502.9	482.6	461.5	442.9	442.9
72.5°	412.9	419.5	426.3	440.2	442.4	424.6	407.7	389.8	385.7
75°	329.0	334.1	340.4	348.8	351.8	336.6	322.8	307.2	302.1
77.5°	245.8	250.7	261.4	262.6	262.0	251.5	240.7	229.0	223.9
80°	190.4	194.4	205.9	207.9	204.9	196.8	185.2	176.8	171.8
82.5°	138.2	145.5	153.8	155.7	151.9	147.9	138.0	128.0	123.8
85°	68.3	72.3	81.7	85.7	79.7	77.7	71.4	63.0	60.0
87.5°	13.2	16.5	24.8	30.5	23.2	27.2	20.7	14.9	13.2
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)