

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: P522452

Luminaire Tested: **SQW-F-100U-025D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522452
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-025D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 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

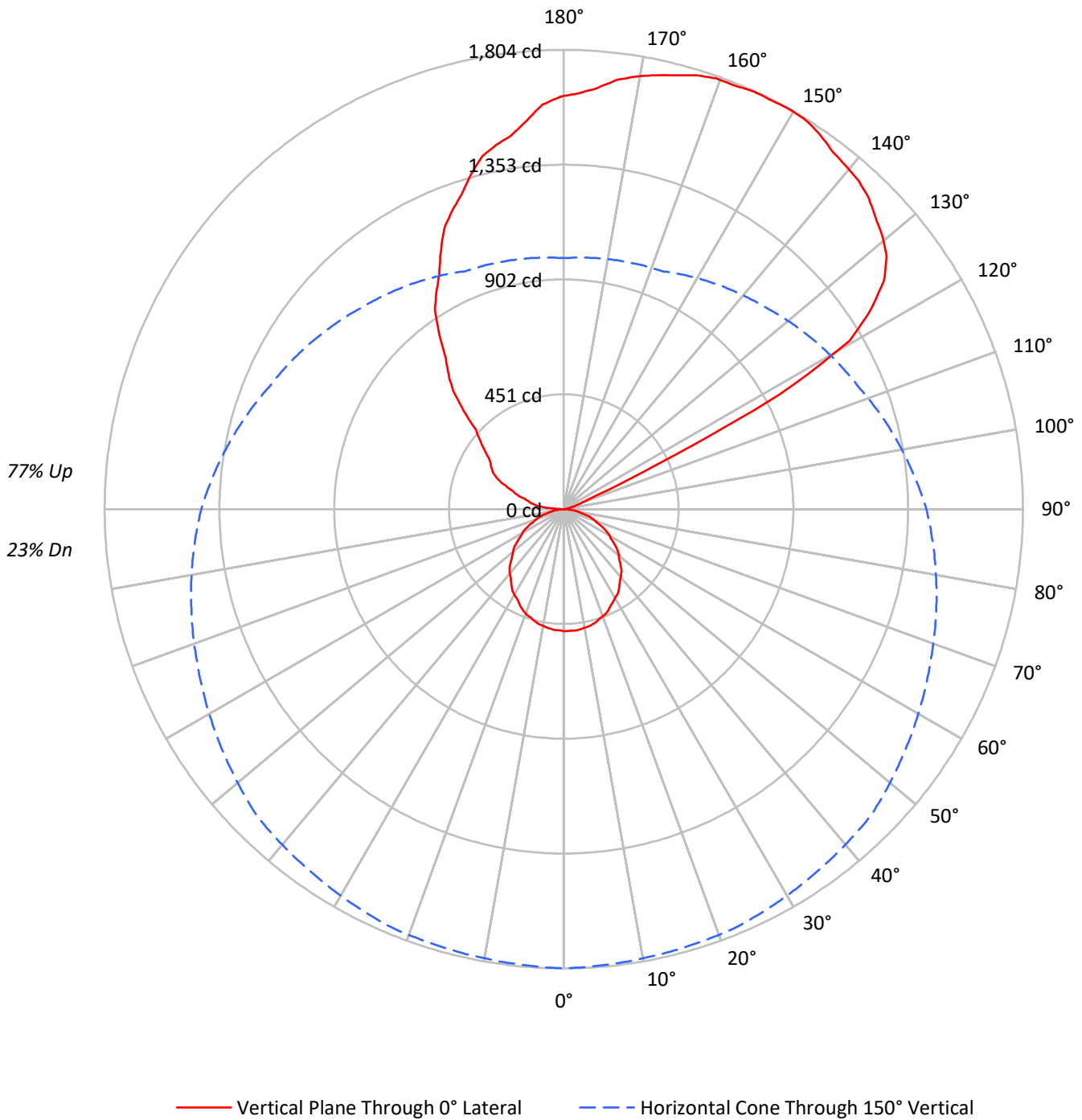
Lumens per Lamp: N/A
Luminaire Lumens: 5859.2 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 49.5
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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	87	84	80	81	78	75	72	60	58	56	43	42	40	27	27	26	19
2	83	76	70	65	74	68	63	59	52	49	46	38	35	34	24	23	22	16
3	76	67	60	54	67	60	54	49	46	42	38	33	30	28	21	20	19	13
4	69	59	51	46	61	53	46	41	41	36	33	29	26	24	19	17	16	11
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	17	15	14	10
6	58	47	39	33	52	42	35	30	32	28	24	24	20	18	15	13	12	9
7	54	42	34	29	48	38	31	26	29	24	21	21	18	16	14	12	11	8
8	50	38	31	25	44	34	28	23	26	22	19	19	16	14	13	11	9	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	8	6
10	43	31	25	20	38	28	22	18	22	18	15	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7752	7752	7752
5°	7765	7831	7715
10°	7753	7820	7668
15°	7731	7783	7611
20°	7680	7734	7538
25°	7557	7650	7391
30°	7485	7562	7273
35°	7403	7484	7159
40°	7284	7371	7000
45°	7158	7254	6827
50°	7018	7121	6601
55°	6787	6961	6407
60°	6581	6781	6148
65°	6246	6602	5849
70°	5910	6302	5471
75°	5490	5808	4903
80°	4909	5095	4333
85°	3649	3835	2871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	0.8
10°-20°	129.9	2.2
20°-30°	195.3	3.3
30°-40°	233.5	4.0
40°-50°	240.0	4.1
50°-60°	214.4	3.7
60°-70°	162.9	2.8
70°-80°	93.1	1.6
80°-90°	24.6	0.4
90°-100°	42.6	0.7
100°-110°	184.4	3.1
110°-120°	525.8	9.0
120°-130°	799.5	13.6
130°-140°	864.7	14.8
140°-150°	826.2	14.1
150°-160°	679.5	11.6
160°-170°	444.0	7.6
170°-180°	153.6	2.6
0°-30°	370.6	6.3
0°-40°	604.1	10.3
0°-60°	1058.5	18.1
0°-90°	1339.1	22.9
90°-120°	752.7	12.8
90°-150°	3243.1	55.3
90°-180°	4520.0	77.1
0°-180°	5859.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	480	480	480	480	480	
5°	479	479	483	478	476	45
15°	462	464	466	459	455	130
25°	424	429	429	422	415	196
35°	376	381	380	372	363	235
45°	314	318	318	308	299	242
55°	241	245	247	235	228	216
65°	164	169	173	160	153	162
75°	88	91	93	84	79	93
85°	20	23	21	19	16	24
90°	0	0	0	0	0	1
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	



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CATALOG NUMBER: SQW-F-100U-025D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1
2.5°	478.5	479.3	480.1	480.2	484.3	479.4	479.3	478.4	476.8
5°	479.1	479.1	479.1	478.2	483.2	477.1	478.0	476.0	476.0
7.5°	476.2	475.4	475.6	474.4	479.5	473.2	473.3	472.0	471.8
10°	472.9	472.9	473.9	471.9	477.0	469.9	470.8	468.7	467.7
12.5°	469.6	468.7	469.8	467.8	472.9	465.8	465.8	462.9	462.7
15°	462.5	462.5	463.6	461.6	465.6	459.6	459.4	456.3	455.3
17.5°	453.6	453.4	455.7	452.7	456.7	449.6	449.7	447.0	445.3
20°	447.0	446.0	449.1	446.1	450.1	443.0	443.9	438.7	438.7
22.5°	438.7	437.7	441.6	437.8	441.8	434.7	435.6	429.6	428.8
25°	424.2	425.2	429.4	426.4	429.4	422.3	422.2	415.9	414.9
27.5°	412.2	411.4	416.8	412.5	415.5	408.5	408.5	401.0	400.0
30°	401.5	401.5	407.7	402.6	405.6	398.5	399.4	391.1	390.1
32.5°	391.5	391.5	396.9	393.5	395.7	388.6	387.8	380.3	379.3
35°	375.6	375.6	380.8	377.7	379.7	372.7	371.5	363.2	363.2
37.5°	358.0	357.2	362.2	360.1	362.2	355.3	352.8	345.6	344.6
40°	345.6	345.6	349.7	347.7	349.7	343.7	340.4	333.2	332.1
42.5°	332.4	332.4	337.3	335.3	337.3	330.4	327.2	319.9	318.9
45°	313.5	313.5	317.7	316.6	317.7	311.6	308.3	300.0	299.0
47.5°	293.4	292.6	296.6	296.8	298.4	291.7	287.4	279.6	278.5
50°	279.4	279.4	282.5	283.5	283.5	278.5	274.2	263.8	262.8
52.5°	262.8	263.6	266.8	267.8	268.6	261.9	257.6	249.8	248.7
55°	241.1	240.1	245.2	246.3	247.3	241.2	234.9	228.7	227.6
57.5°	218.7	218.5	222.9	224.1	224.9	219.9	213.6	206.5	205.3
60°	203.8	202.8	208.0	210.0	210.0	205.0	198.7	192.4	190.4
62.5°	186.5	188.7	192.3	194.4	196.0	190.1	182.9	177.5	175.5
65°	163.5	164.5	168.7	170.8	172.8	166.7	160.4	155.2	153.1
67.5°	140.1	141.9	145.1	147.2	149.2	143.3	137.0	132.6	130.8
70°	125.2	126.2	129.3	131.5	133.5	128.4	122.1	116.9	115.9
72.5°	110.3	111.3	114.4	115.7	116.9	111.9	106.4	102.8	101.0
75°	88.0	89.0	91.1	92.1	93.1	88.1	83.8	80.7	78.6
77.5°	66.8	66.8	68.9	69.7	69.7	66.7	62.7	59.8	58.2
80°	52.8	52.8	54.8	54.8	54.8	51.8	48.6	46.6	46.6
82.5°	38.7	39.5	41.6	41.6	40.8	38.5	36.2	34.1	34.1
85°	19.7	20.7	22.8	22.7	20.7	20.7	18.6	17.5	15.5
87.5°	5.0	5.8	7.5	8.2	6.6	6.6	5.0	3.3	3.3
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	6.6	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)