

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: P522455

Luminaire Tested: **SQW-F-100U-025D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522455
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

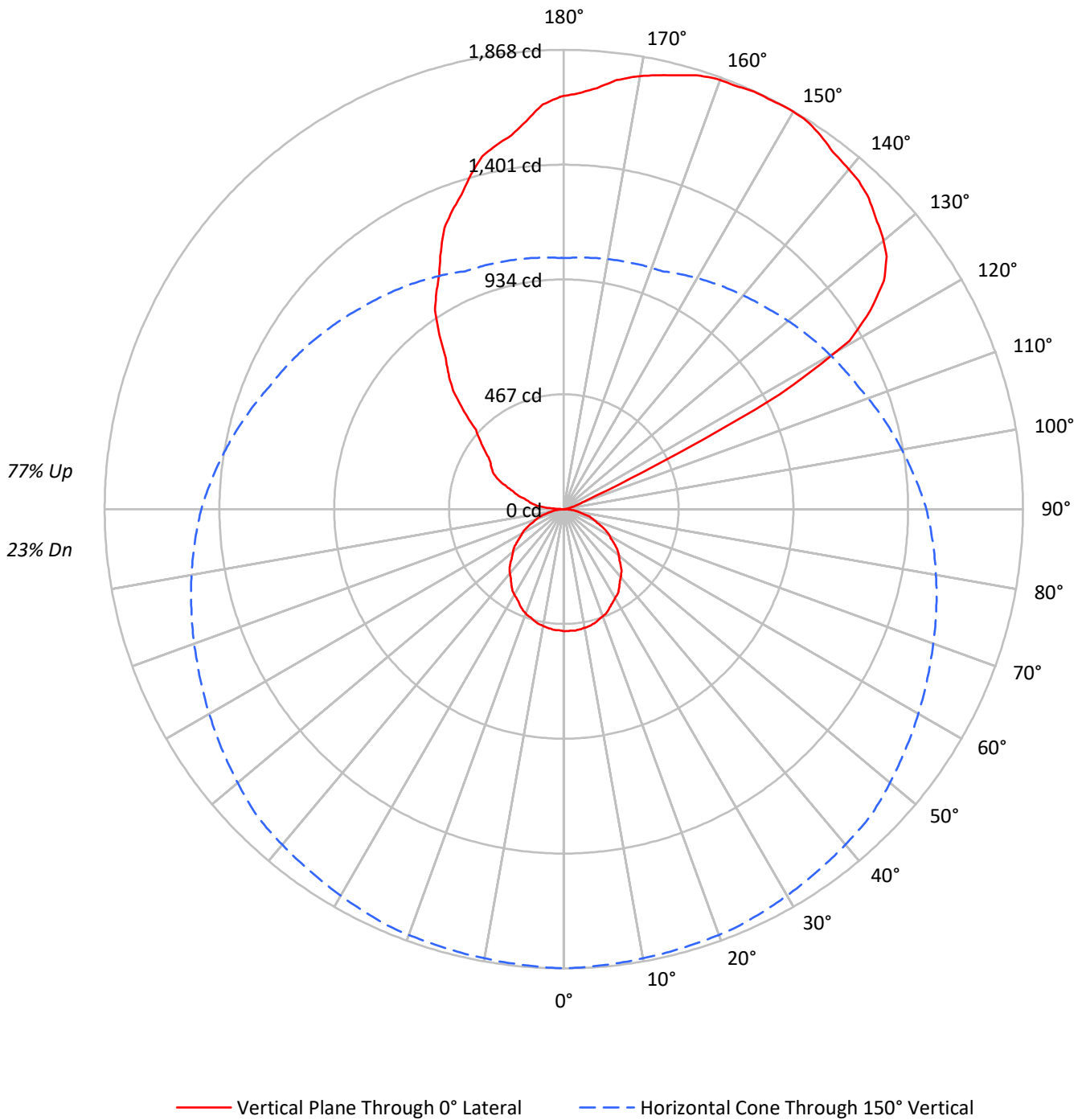
Lumens per Lamp: N/A
Luminaire Lumens: 6065.5 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 49.2
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	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°	8024	8024	8024
5°	8037	8107	7985
10°	8025	8096	7938
15°	8003	8057	7878
20°	7950	8005	7804
25°	7824	7919	7652
30°	7748	7828	7528
35°	7663	7748	7411
40°	7541	7630	7246
45°	7412	7508	7069
50°	7264	7372	6835
55°	7026	7206	6632
60°	6814	7020	6365
65°	6464	6835	6055
70°	6118	6524	5665
75°	5677	6014	5078
80°	5077	5281	4482
85°	3779	3964	2983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	0.8
10°-20°	134.5	2.2
20°-30°	202.1	3.3
30°-40°	241.7	4.0
40°-50°	248.5	4.1
50°-60°	222.0	3.7
60°-70°	168.6	2.8
70°-80°	96.3	1.6
80°-90°	25.5	0.4
90°-100°	44.1	0.7
100°-110°	190.9	3.1
110°-120°	544.3	9.0
120°-130°	827.6	13.6
130°-140°	895.1	14.8
140°-150°	855.3	14.1
150°-160°	703.4	11.6
160°-170°	459.6	7.6
170°-180°	159.0	2.6
0°-30°	383.6	6.3
0°-40°	625.3	10.3
0°-60°	1095.8	18.1
0°-90°	1386.2	22.9
90°-120°	779.2	12.8
90°-150°	3357.2	55.3
90°-180°	4679.0	77.1
0°-180°	6065.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	497	497	497	497	497	
5°	496	496	500	495	493	47
15°	479	480	482	476	471	135
25°	439	444	444	437	430	203
35°	389	394	393	384	376	243
45°	325	329	329	319	310	250
55°	250	254	256	243	236	223
65°	169	175	179	166	158	168
75°	91	94	96	87	81	97
85°	20	24	21	19	16	25
90°	0	0	0	0	0	1
95°	7	10	30	71	67	9
105°	44	112	221	151	162	51
115°	401	1068	551	262	296	552
125°	1600	1408	881	433	372	1406
135°	1771	1603	1159	719	569	1365
145°	1845	1727	1381	1022	871	1156
155°	1866	1784	1542	1280	1162	862
165°	1822	1782	1651	1480	1412	518
175°	1717	1721	1691	1630	1586	166
180°	1677	1677	1677	1677	1677	



TEST NUMBER: P522455

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0
2.5°	495.3	496.1	497.0	497.1	501.3	496.3	496.1	495.3	493.6
5°	495.9	495.9	495.9	495.0	500.2	493.9	494.9	492.7	492.7
7.5°	492.9	492.1	492.3	491.1	496.4	489.9	489.9	488.6	488.4
10°	489.5	489.5	490.6	488.6	493.8	486.5	487.4	485.2	484.2
12.5°	486.1	485.2	486.3	484.3	489.5	482.2	482.2	479.2	479.0
15°	478.8	478.8	479.9	477.8	482.0	475.7	475.6	472.3	471.3
17.5°	469.6	469.4	471.7	468.6	472.8	465.5	465.5	462.7	461.0
20°	462.7	461.7	464.9	461.8	465.9	458.6	459.5	454.2	454.2
22.5°	454.2	453.1	457.2	453.2	457.4	450.0	450.9	444.7	443.9
25°	439.2	440.2	444.5	441.4	444.5	437.2	437.0	430.6	429.5
27.5°	426.7	425.9	431.5	427.0	430.2	422.8	422.9	415.1	414.1
30°	415.6	415.6	422.0	416.7	419.9	412.6	413.5	404.9	403.8
32.5°	405.3	405.3	410.9	407.3	409.6	402.3	401.5	393.7	392.7
35°	388.8	388.8	394.2	391.0	393.1	385.8	384.5	376.0	376.0
37.5°	370.6	369.8	374.9	372.8	374.9	367.8	365.3	357.7	356.7
40°	357.8	357.8	362.0	359.9	362.0	355.8	352.4	344.9	343.8
42.5°	344.0	344.0	349.2	347.1	349.2	342.1	338.7	331.2	330.1
45°	324.6	324.6	328.8	327.8	328.8	322.6	319.2	310.6	309.6
47.5°	303.8	302.9	307.0	307.2	308.9	302.0	297.6	289.4	288.3
50°	289.2	289.2	292.4	293.5	293.5	288.3	283.9	273.1	272.1
52.5°	272.1	272.9	276.1	277.2	278.1	271.2	266.7	258.5	257.5
55°	249.6	248.5	253.9	255.0	256.0	249.7	243.1	236.7	235.6
57.5°	226.4	226.2	230.7	232.0	232.9	227.6	221.1	213.8	212.5
60°	211.0	210.0	215.3	217.4	217.4	212.2	205.7	199.2	197.1
62.5°	193.0	195.3	199.0	201.2	202.9	196.8	189.4	183.8	181.7
65°	169.2	170.3	174.6	176.8	178.9	172.6	166.0	160.6	158.5
67.5°	145.0	146.9	150.2	152.4	154.5	148.4	141.8	137.3	135.4
70°	129.6	130.7	133.9	136.1	138.2	132.9	126.4	121.0	120.0
72.5°	114.2	115.2	118.5	119.8	121.0	115.8	110.1	106.4	104.5
75°	91.0	92.1	94.3	95.4	96.4	91.2	86.8	83.5	81.4
77.5°	69.2	69.2	71.3	72.2	72.2	69.1	64.9	61.9	60.2
80°	54.6	54.6	56.8	56.8	56.8	53.6	50.3	48.2	48.2
82.5°	40.1	40.9	43.1	43.0	42.2	39.9	37.5	35.3	35.3
85°	20.4	21.4	23.6	23.5	21.4	21.4	19.3	18.2	16.1
87.5°	5.1	6.0	7.7	8.5	6.9	6.9	5.1	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.3	2.3	2.3	4.6	6.8	24.6	27.3	23.9	23.9
95°	7.1	7.1	10.0	31.3	29.9	50.8	71.2	66.9	66.9
97.5°	14.5	15.9	22.8	92.6	69.8	67.8	96.2	107.1	109.0
100°	21.4	22.7	34.2	151.2	103.9	88.6	105.3	125.4	129.5
102.5°	29.3	31.8	54.7	237.9	146.1	104.0	120.1	137.9	143.2
105°	44.1	48.3	112.5	398.8	220.6	135.7	150.9	158.1	162.3
107.5°	65.5	82.5	302.9	560.4	313.2	179.3	195.3	194.3	197.9
110°	88.3	123.1	523.9	648.8	381.5	213.1	213.5	224.8	220.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	146.3	244.6	781.2	733.8	449.8	253.6	230.6	255.7	257.1
115°	401.4	689.6	1067.7	853.0	550.9	325.4	261.9	286.4	296.1
117.5°	995.3	1199.7	1214.3	958.7	651.7	405.6	297.8	308.6	321.4
120°	1349.5	1391.3	1282.6	1023.7	718.9	462.8	327.4	323.5	337.4
122.5°	1488.5	1473.4	1338.4	1084.2	784.9	523.3	363.9	341.6	351.0
125°	1600.1	1561.1	1407.9	1167.9	881.2	613.9	432.8	371.5	371.5
127.5°	1666.7	1621.3	1471.7	1242.2	968.0	705.5	515.6	420.2	407.1
130°	1705.4	1656.7	1510.4	1293.6	1024.9	764.7	573.7	462.2	441.3
132.5°	1735.0	1690.7	1546.8	1333.8	1080.7	822.7	631.8	514.3	480.0
135°	1770.9	1733.3	1602.9	1395.4	1158.8	909.6	718.9	604.2	569.4
137.5°	1793.9	1764.7	1653.3	1446.0	1231.1	995.8	806.9	691.7	660.2
140°	1806.5	1782.8	1678.4	1475.9	1275.5	1051.4	868.4	751.0	721.7
142.5°	1819.0	1799.8	1696.6	1509.2	1318.8	1106.9	928.7	811.3	779.8
145°	1844.9	1822.6	1726.8	1549.3	1380.8	1184.6	1022.1	899.0	871.2
147.5°	1863.1	1836.4	1751.5	1592.3	1439.5	1254.9	1107.8	989.0	961.5
150°	1867.7	1839.8	1765.2	1615.4	1474.8	1298.0	1160.2	1047.1	1020.7
152.5°	1864.3	1843.1	1775.4	1635.0	1504.4	1339.9	1208.0	1103.0	1078.8
155°	1866.3	1846.8	1783.7	1661.4	1541.7	1398.3	1279.8	1186.7	1161.6
157.5°	1857.7	1844.9	1789.4	1681.6	1576.1	1450.6	1345.5	1267.2	1241.9
160°	1857.7	1838.2	1789.4	1693.3	1600.1	1484.5	1386.5	1316.3	1295.4
162.5°	1845.2	1827.9	1788.2	1701.6	1622.8	1516.2	1425.2	1359.7	1344.4
165°	1822.1	1808.2	1782.3	1712.5	1651.3	1559.4	1480.5	1421.9	1412.1
167.5°	1804.2	1785.0	1770.9	1712.1	1670.7	1590.5	1527.2	1478.6	1473.1
170°	1783.7	1771.2	1759.5	1709.0	1679.8	1613.0	1560.2	1511.7	1506.1
172.5°	1757.5	1750.5	1744.7	1706.9	1685.5	1632.0	1588.7	1544.6	1534.6
175°	1716.8	1722.4	1721.1	1702.3	1691.2	1656.4	1630.0	1598.3	1585.8
177.5°	1691.7	1689.5	1695.1	1691.7	1690.6	1669.4	1662.1	1640.6	1647.3
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9

(END OF REPORT)