

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: P522453

Luminaire Tested: **SQW-F-100U-025D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522453
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

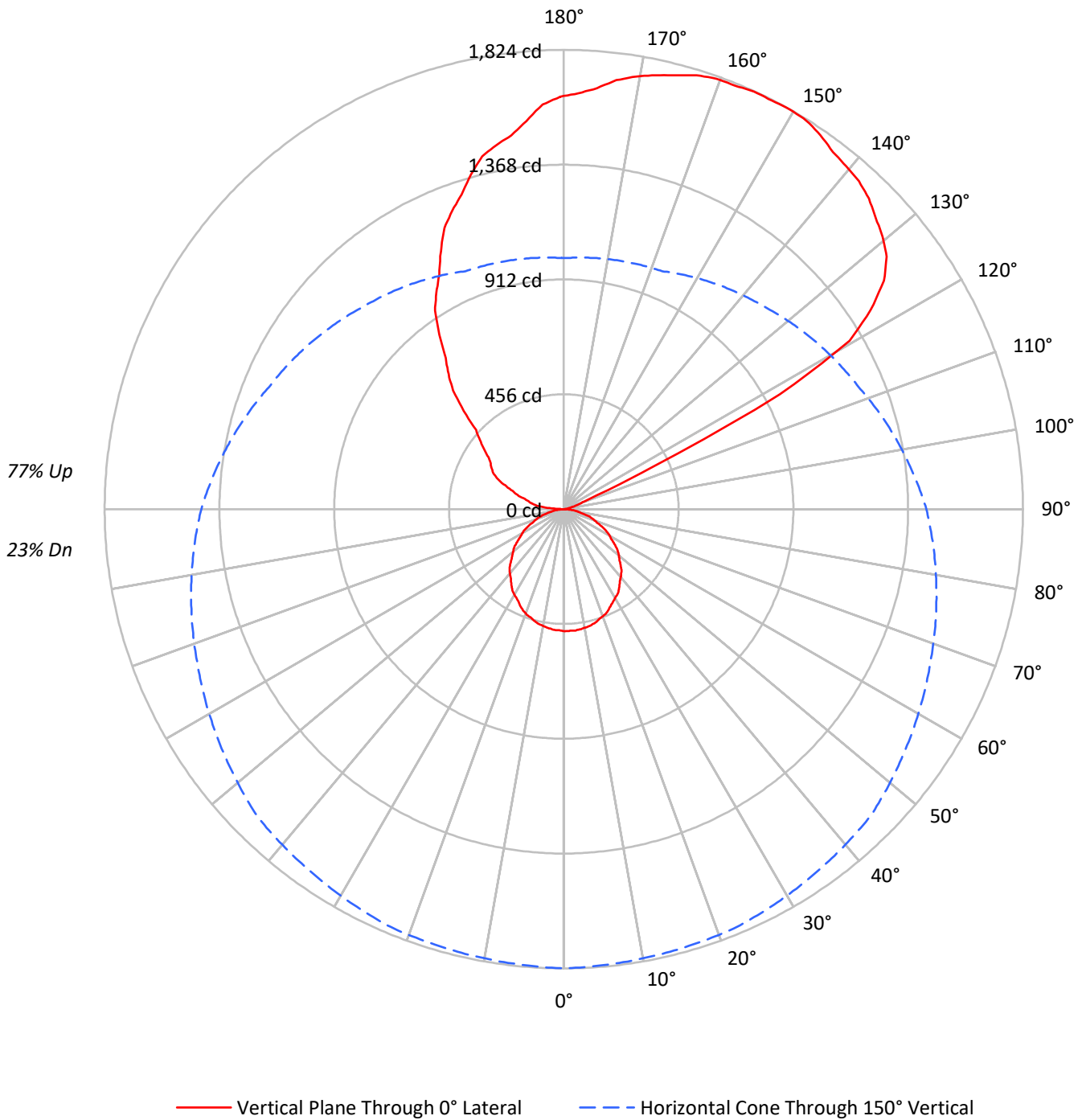
Lumens per Lamp: N/A
Luminaire Lumens: 5924.1 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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°	7837	7837	7837
5°	7851	7919	7799
10°	7838	7907	7753
15°	7816	7870	7694
20°	7765	7820	7622
25°	7641	7735	7473
30°	7567	7646	7353
35°	7486	7567	7238
40°	7364	7453	7078
45°	7238	7334	6903
50°	7096	7201	6674
55°	6863	7037	6480
60°	6655	6859	6216
65°	6315	6674	5914
70°	5976	6373	5533
75°	5546	5876	4959
80°	4965	5151	4379
85°	3687	3872	2908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	0.8
10°-20°	131.3	2.2
20°-30°	197.4	3.3
30°-40°	236.1	4.0
40°-50°	242.7	4.1
50°-60°	216.8	3.7
60°-70°	164.7	2.8
70°-80°	94.1	1.6
80°-90°	24.9	0.4
90°-100°	43.0	0.7
100°-110°	186.4	3.1
110°-120°	531.6	9.0
120°-130°	808.3	13.6
130°-140°	874.2	14.8
140°-150°	835.3	14.1
150°-160°	687.0	11.6
160°-170°	448.9	7.6
170°-180°	155.3	2.6
0°-30°	374.7	6.3
0°-40°	610.8	10.3
0°-60°	1070.2	18.1
0°-90°	1353.9	22.9
90°-120°	761.1	12.8
90°-150°	3279.0	55.3
90°-180°	4570.0	77.1
0°-180°	5924.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	485	485	485	485	485	
5°	484	484	489	483	481	46
15°	468	469	471	464	460	132
25°	429	434	434	427	420	198
35°	380	385	384	376	367	237
45°	317	321	321	312	302	244
55°	244	248	250	238	230	218
65°	165	170	175	162	155	164
75°	89	92	94	85	80	94
85°	20	23	21	19	16	24
90°	0	0	0	0	0	1
95°	7	10	29	70	65	9
105°	43	110	216	147	158	50
115°	392	1043	538	256	289	539
125°	1563	1375	861	423	363	1373
135°	1730	1566	1132	702	556	1333
145°	1802	1686	1349	998	851	1129
155°	1823	1742	1506	1250	1134	842
165°	1780	1741	1613	1446	1379	506
175°	1677	1681	1652	1592	1549	162
180°	1638	1638	1638	1638	1638	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4
2.5°	483.8	484.6	485.4	485.5	489.6	484.7	484.6	483.7	482.1
5°	484.4	484.4	484.4	483.4	488.6	482.4	483.3	481.2	481.2
7.5°	481.4	480.6	480.8	479.7	484.8	478.5	478.5	477.3	477.1
10°	478.1	478.1	479.1	477.2	482.3	475.1	476.0	473.9	472.9
12.5°	474.8	473.9	475.0	473.0	478.1	470.9	471.0	468.1	467.8
15°	467.6	467.6	468.7	466.7	470.8	464.6	464.5	461.3	460.3
17.5°	458.6	458.4	460.7	457.7	461.8	454.6	454.7	451.9	450.3
20°	451.9	450.9	454.0	451.0	455.1	447.9	448.8	443.6	443.6
22.5°	443.6	442.6	446.5	442.6	446.7	439.6	440.4	434.4	433.5
25°	428.9	430.0	434.2	431.1	434.2	427.0	426.8	420.5	419.5
27.5°	416.8	416.0	421.4	417.1	420.1	413.0	413.0	405.5	404.5
30°	405.9	405.9	412.2	407.0	410.1	402.9	403.8	395.4	394.4
32.5°	395.9	395.9	401.3	397.8	400.1	392.9	392.1	384.5	383.5
35°	379.8	379.8	385.0	381.9	383.9	376.8	375.6	367.2	367.2
37.5°	362.0	361.2	366.2	364.1	366.2	359.2	356.7	349.4	348.4
40°	349.4	349.4	353.6	351.6	353.6	347.5	344.2	336.8	335.8
42.5°	336.0	336.0	341.1	339.0	341.1	334.1	330.8	323.5	322.4
45°	317.0	317.0	321.2	320.2	321.2	315.0	311.8	303.4	302.3
47.5°	296.7	295.9	299.8	300.1	301.7	295.0	290.6	282.7	281.6
50°	282.5	282.5	285.6	286.7	286.7	281.5	277.2	266.8	265.7
52.5°	265.7	266.5	269.7	270.8	271.6	264.8	260.5	252.5	251.5
55°	243.8	242.7	247.9	249.0	250.0	243.9	237.5	231.2	230.2
57.5°	221.2	221.0	225.3	226.6	227.4	222.3	215.9	208.8	207.6
60°	206.1	205.1	210.3	212.4	212.4	207.3	200.9	194.5	192.5
62.5°	188.5	190.8	194.4	196.5	198.1	192.2	185.0	179.5	177.4
65°	165.3	166.3	170.5	172.7	174.7	168.6	162.2	156.9	154.8
67.5°	141.7	143.5	146.7	148.8	150.9	144.9	138.5	134.1	132.2
70°	126.6	127.6	130.8	132.9	135.0	129.8	123.4	118.2	117.2
72.5°	111.5	112.5	115.7	117.0	118.2	113.1	107.5	103.9	102.1
75°	88.9	89.9	92.1	93.1	94.2	89.0	84.7	81.6	79.5
77.5°	67.6	67.6	69.7	70.5	70.5	67.4	63.4	60.4	58.8
80°	53.4	53.4	55.4	55.4	55.4	52.4	49.2	47.1	47.1
82.5°	39.1	39.9	42.1	42.0	41.2	39.0	36.6	34.5	34.5
85°	19.9	20.9	23.0	23.0	20.9	20.9	18.8	17.7	15.7
87.5°	5.0	5.8	7.5	8.3	6.7	6.7	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	4.5	6.7	24.1	26.7	23.4	23.4
95°	7.0	7.0	9.7	30.6	29.2	49.6	69.5	65.3	65.3
97.5°	14.2	15.5	22.2	90.4	68.1	66.2	94.0	104.6	106.5
100°	20.9	22.2	33.4	147.7	101.5	86.5	102.9	122.4	126.5
102.5°	28.6	31.1	53.4	232.4	142.7	101.6	117.3	134.7	139.9
105°	43.1	47.2	109.8	389.5	215.5	132.6	147.4	154.4	158.5
107.5°	64.0	80.5	295.9	547.3	305.9	175.1	190.8	189.7	193.3
110°	86.2	120.2	511.7	633.6	372.6	208.1	208.6	219.6	215.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	142.9	238.9	763.0	716.7	439.4	247.7	225.2	249.7	251.1
115°	392.1	673.5	1042.8	833.1	538.1	317.8	255.8	279.7	289.2
117.5°	972.1	1171.7	1186.0	936.4	636.5	396.2	290.9	301.4	313.9
120°	1318.1	1358.8	1252.7	999.9	702.1	452.0	319.8	315.9	329.5
122.5°	1453.8	1439.1	1307.2	1058.9	766.6	511.1	355.4	333.6	342.9
125°	1562.8	1524.7	1375.1	1140.7	860.6	599.6	422.7	362.9	362.9
127.5°	1627.8	1583.5	1437.4	1213.3	945.4	689.1	503.6	410.4	397.6
130°	1665.7	1618.1	1475.2	1263.4	1001.1	746.8	560.3	451.4	431.0
132.5°	1694.6	1651.3	1510.8	1302.7	1055.6	803.5	617.0	502.3	468.8
135°	1729.6	1692.9	1565.5	1362.9	1131.8	888.4	702.1	590.1	556.1
137.5°	1752.1	1723.6	1614.8	1412.3	1202.4	972.6	788.1	675.6	644.8
140°	1764.4	1741.3	1639.2	1441.5	1245.8	1026.9	848.1	733.5	704.9
142.5°	1776.6	1757.8	1657.0	1474.0	1288.0	1081.1	907.1	792.4	761.6
145°	1801.9	1780.2	1686.5	1513.1	1348.7	1157.0	998.3	878.1	850.9
147.5°	1819.7	1793.6	1710.7	1555.2	1405.9	1225.7	1082.0	966.0	939.1
150°	1824.2	1797.0	1724.0	1577.7	1440.4	1267.8	1133.1	1022.7	996.9
152.5°	1820.8	1800.2	1734.1	1596.9	1469.3	1308.6	1179.9	1077.3	1053.6
155°	1822.8	1803.7	1742.1	1622.7	1505.8	1365.7	1249.9	1159.0	1134.5
157.5°	1814.4	1801.9	1747.7	1642.5	1539.4	1416.8	1314.2	1237.7	1213.0
160°	1814.4	1795.4	1747.7	1653.9	1562.8	1449.9	1354.2	1285.6	1265.2
162.5°	1802.2	1785.3	1746.6	1662.0	1585.0	1480.9	1392.0	1328.0	1313.1
165°	1779.7	1766.1	1740.7	1672.6	1612.8	1523.1	1446.0	1388.8	1379.2
167.5°	1762.1	1743.4	1729.6	1672.2	1631.7	1553.4	1491.6	1444.2	1438.7
170°	1742.1	1729.9	1718.5	1669.2	1640.6	1575.4	1523.8	1476.4	1471.0
172.5°	1716.5	1709.7	1704.0	1667.1	1646.2	1594.0	1551.6	1508.6	1498.8
175°	1676.8	1682.2	1680.9	1662.6	1651.7	1617.8	1592.0	1561.1	1548.9
177.5°	1652.3	1650.1	1655.6	1652.3	1651.2	1630.5	1623.4	1602.4	1608.9
180°	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8

(END OF REPORT)