

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: P522534

Luminaire Tested: **SQW-F-050U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522534
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-050U-125D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

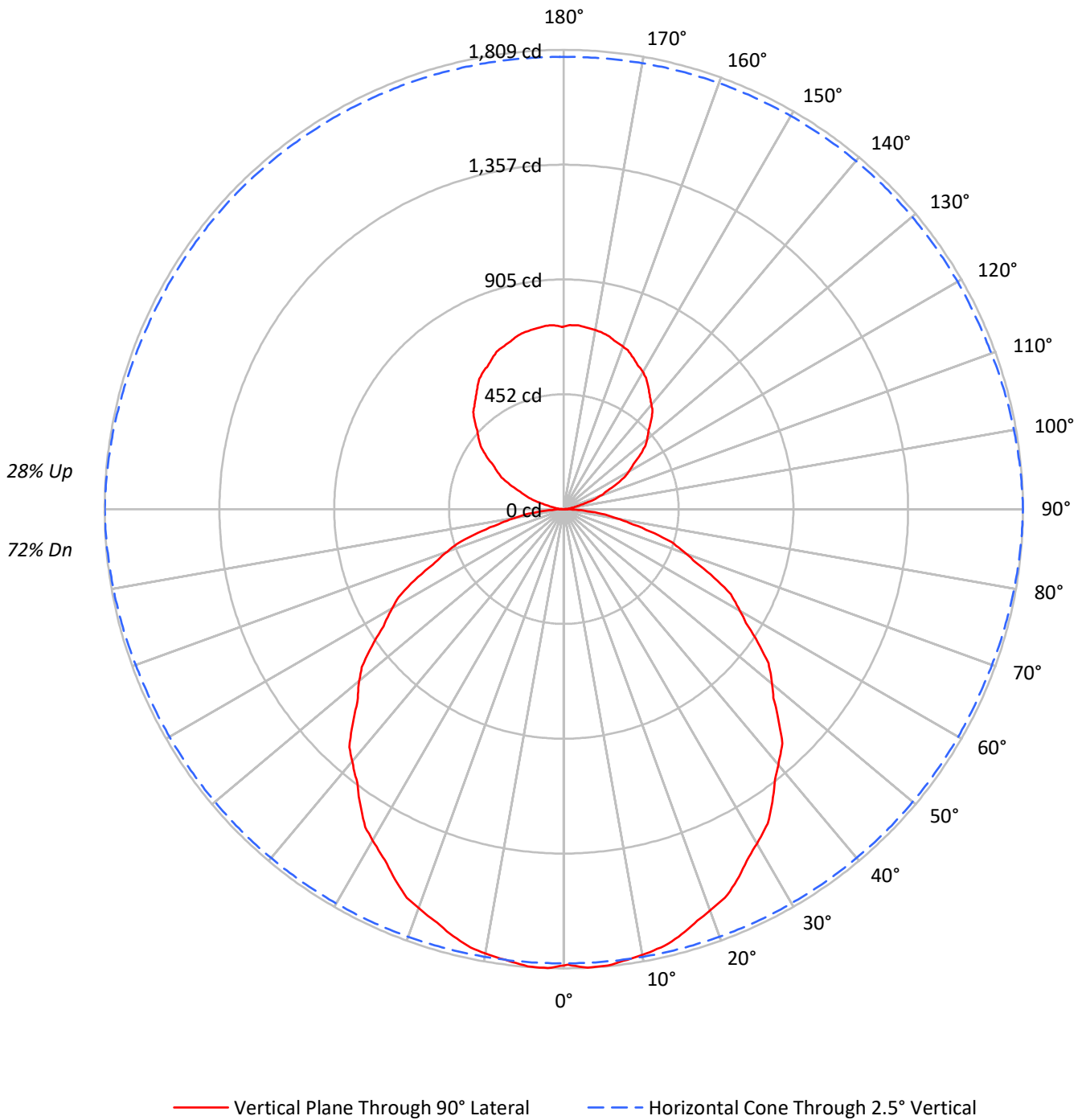
Lumens per Lamp: N/A
Luminaire Lumens: 7007.1 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 76.1
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									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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR	0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72	72	72	72	72	72	72	72	72	72	72	72																
	1	102	98	94	90	97	93	89	86	83	81	78	75	73	71	67	65	64	60	60	60	60	60	60	60	60	60	60	60	60																
	2	93	85	79	73	88	81	75	70	73	68	64	65	62	59	59	56	53	50	50	50	50	50	50	50	50	50	50	50	50																
	3	85	75	67	61	80	71	64	59	64	59	54	58	53	50	52	48	45	42	42	42	42	42	42	42	42	42	42	42	42																
	4	78	66	58	51	73	63	55	50	57	51	46	51	46	42	46	42	39	36	36	36	36	36	36	36	36	36	36	36	36																
	5	71	59	50	44	67	56	48	43	51	45	40	46	41	37	41	37	34	31	31	31	31	31	31	31	31	31	31	31	31																
	6	66	53	44	38	62	51	43	37	46	39	35	42	36	32	38	33	30	27	27	27	27	27	27	27	27	27	27	27	27																
	7	61	48	40	34	57	46	38	33	42	35	30	38	32	28	34	30	26	24	24	24	24	24	24	24	24	24	24	24	24	24															
	8	56	44	35	30	53	42	34	29	38	32	27	35	29	25	31	27	24	21	21	21	21	21	21	21	21	21	21	21	21	21															
	9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19	19	19	19	19	19	19	19	19	19	19	19	19															
	10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	22	19	17	17	17	17	17	17	17	17	17	17	17	17	17															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28982	28982	28982
5°	29060	29287	28801
10°	29019	29199	28609
15°	28951	29068	28433
20°	28711	28849	28075
25°	28379	28575	27578
30°	28021	28226	27108
35°	27693	27910	26530
40°	27210	27526	26030
45°	26715	27104	25345
50°	26349	26676	24767
55°	25700	26123	23927
60°	24961	25543	22992
65°	24031	24909	21815
70°	22801	23604	20535
75°	21210	21959	18528
80°	18038	19061	15435
85°	13709	14820	10559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	2.4
10°-20°	485.0	6.9
20°-30°	729.4	10.4
30°-40°	871.3	12.4
40°-50°	896.1	12.8
50°-60°	806.7	11.5
60°-70°	614.4	8.8
70°-80°	350.2	5.0
80°-90°	91.2	1.3
90°-100°	18.1	0.3
100°-110°	80.3	1.1
110°-120°	230.8	3.3
120°-130°	351.6	5.0
130°-140°	381.7	5.4
140°-150°	365.0	5.2
150°-160°	300.7	4.3
160°-170°	196.8	2.8
170°-180°	68.1	1.0
0°-30°	1384.1	19.8
0°-40°	2255.4	32.2
0°-60°	3958.2	56.5
0°-90°	5014.1	71.6
90°-120°	329.3	4.7
90°-150°	1427.5	20.4
90°-180°	1993.0	28.4
0°-180°	7007.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1795	1795	1795	1795	1795	
5°	1793	1792	1807	1781	1777	170
15°	1732	1732	1739	1710	1701	488
25°	1593	1607	1604	1574	1548	734
35°	1405	1421	1416	1382	1346	877
45°	1170	1185	1187	1144	1110	904
55°	913	924	928	881	850	816
65°	629	641	652	602	571	622
75°	340	347	352	313	297	358
85°	74	86	80	68	57	88
90°	0	0	0	0	0	2
95°	3	4	13	28	27	4
105°	18	49	92	64	68	21
115°	173	455	233	109	122	239
125°	688	599	371	184	156	604
135°	758	686	492	305	243	585
145°	793	738	587	434	370	497
155°	801	768	657	544	496	371
165°	784	764	704	633	602	223
175°	738	740	726	694	677	71
180°	717	717	717	717	717	



TEST NUMBER: P522534

CATALOG NUMBER: SQW-F-050U-125D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0
2.5°	1789.4	1793.3	1795.0	1793.8	1809.4	1791.4	1791.8	1786.9	1781.4
5°	1793.0	1791.0	1792.0	1788.4	1807.0	1783.5	1781.0	1776.0	1777.0
7.5°	1781.2	1779.8	1780.6	1775.4	1793.0	1769.3	1767.4	1762.2	1761.8
10°	1770.0	1767.1	1771.0	1763.4	1781.0	1756.6	1753.0	1747.0	1745.0
12.5°	1757.2	1753.5	1758.2	1749.0	1765.8	1739.0	1738.6	1730.2	1729.0
15°	1732.0	1732.0	1732.0	1724.3	1739.0	1711.6	1710.0	1701.0	1701.0
17.5°	1696.6	1697.4	1702.6	1692.5	1704.6	1678.2	1674.8	1664.2	1662.8
20°	1671.0	1671.0	1681.0	1665.3	1679.0	1652.6	1650.0	1633.0	1634.0
22.5°	1640.6	1640.6	1653.0	1638.9	1651.0	1624.6	1621.2	1601.0	1602.0
25°	1593.0	1591.0	1607.0	1593.2	1604.0	1577.6	1574.0	1550.0	1548.0
27.5°	1539.8	1541.6	1557.0	1542.6	1552.4	1523.7	1524.6	1495.9	1492.4
30°	1503.0	1504.0	1521.0	1508.1	1514.0	1487.6	1487.0	1456.0	1454.0
32.5°	1464.6	1464.8	1482.6	1467.4	1476.4	1449.2	1445.4	1415.9	1413.2
35°	1405.0	1404.0	1421.0	1410.1	1416.0	1387.6	1382.0	1354.8	1346.0
37.5°	1337.4	1338.2	1354.2	1347.9	1351.6	1324.4	1313.4	1286.3	1283.0
40°	1291.0	1291.0	1307.0	1303.1	1306.0	1279.6	1267.0	1239.9	1235.0
42.5°	1243.0	1244.6	1259.0	1256.0	1262.8	1234.1	1218.2	1192.7	1186.2
45°	1170.0	1172.9	1185.0	1182.1	1187.0	1162.6	1144.0	1116.8	1110.0
47.5°	1101.0	1098.1	1111.6	1109.8	1111.6	1087.7	1069.2	1041.1	1035.6
50°	1049.0	1046.1	1058.0	1061.0	1062.0	1036.6	1018.0	989.9	986.0
52.5°	995.4	992.5	1005.2	1009.8	1010.0	986.1	964.4	937.9	934.0
55°	913.0	908.1	924.0	930.0	928.0	907.5	881.0	857.8	850.0
57.5°	829.8	829.2	842.8	848.2	847.0	826.7	800.4	776.8	768.8
60°	773.0	770.1	786.0	793.0	791.0	771.4	742.0	720.8	712.0
62.5°	716.2	716.4	730.0	736.2	738.2	714.7	687.6	663.3	656.8
65°	629.0	625.1	641.0	647.1	652.0	627.6	602.0	577.8	571.0
67.5°	541.4	538.5	549.4	556.5	560.8	538.9	514.0	493.9	491.0
70°	483.0	480.1	491.0	498.0	500.0	480.4	454.0	437.9	435.0
72.5°	425.4	422.5	431.0	438.1	442.4	421.3	396.4	381.0	374.2
75°	340.0	338.0	347.0	347.1	352.0	331.5	313.0	298.0	297.0
77.5°	254.8	256.2	262.6	263.0	264.2	248.9	234.4	217.4	216.4
80°	194.0	200.8	205.0	207.0	205.0	195.2	180.0	167.0	166.0
82.5°	143.6	148.9	157.0	155.7	152.2	144.8	132.8	120.6	119.6
85°	74.0	78.9	86.0	85.9	80.0	76.1	68.0	58.0	57.0
87.5°	17.6	20.7	28.0	30.3	24.8	25.6	17.6	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.5	0.5	1.1	1.6	2.7	10.0	11.2	10.1	9.6
95°	2.7	2.7	4.0	12.7	12.7	20.5	28.1	27.4	27.4
97.5°	6.0	6.7	9.4	38.7	28.9	28.1	40.1	44.1	44.5
100°	8.7	9.3	14.7	63.0	42.8	36.2	42.8	52.2	54.1
102.5°	11.9	13.1	23.3	99.5	60.4	43.4	50.3	57.0	58.9
105°	18.0	20.0	48.8	166.7	92.2	57.6	63.5	66.8	67.5
107.5°	27.1	34.4	133.5	234.5	130.8	76.2	79.7	81.9	82.7
110°	36.8	52.4	231.9	275.4	159.7	90.5	88.2	94.2	92.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	61.9	107.9	340.4	308.9	188.6	107.3	96.2	106.0	106.8
115°	173.1	297.2	455.1	356.7	232.6	136.5	108.9	118.4	122.3
117.5°	434.4	516.8	515.5	400.9	274.8	170.9	124.2	128.7	133.1
120°	584.1	596.5	546.0	430.8	302.1	195.5	137.0	135.1	139.0
122.5°	639.7	629.6	569.0	457.0	329.9	221.3	153.6	142.0	145.4
125°	687.6	668.0	598.8	494.4	370.9	259.2	183.8	157.0	156.4
127.5°	714.2	693.7	627.9	526.8	408.6	298.5	218.1	178.3	172.3
130°	727.1	708.1	648.2	546.7	433.7	325.2	243.2	196.9	187.8
132.5°	742.6	722.1	662.6	567.1	457.8	350.3	268.4	219.3	208.6
135°	757.8	738.9	686.3	593.8	491.8	387.3	304.7	256.3	242.6
137.5°	771.4	754.1	708.0	614.7	522.6	423.7	343.2	296.1	279.3
140°	780.5	761.6	717.0	630.8	541.3	446.5	368.9	321.8	308.7
142.5°	783.7	772.1	726.7	644.3	562.1	468.4	394.5	345.9	333.9
145°	793.2	785.4	738.4	660.6	586.7	501.1	433.7	383.3	370.2
147.5°	799.4	787.6	749.3	678.1	610.8	530.4	469.3	420.9	408.7
150°	799.9	790.8	757.8	688.9	626.8	551.7	491.2	445.5	434.4
152.5°	804.2	792.9	762.1	698.0	638.6	569.7	513.1	470.6	458.4
155°	801.2	793.4	768.5	709.8	656.9	592.9	544.0	506.3	495.8
157.5°	801.2	791.6	769.3	719.0	674.5	618.3	572.8	538.0	530.2
160°	795.9	792.0	769.8	725.4	683.6	632.7	592.1	560.4	550.0
162.5°	793.8	787.2	770.9	729.8	691.6	644.3	608.6	578.7	570.8
165°	784.5	778.7	764.5	731.8	704.3	665.1	632.8	606.0	602.1
167.5°	774.0	769.4	760.1	735.0	712.8	680.7	653.6	631.9	626.6
170°	766.5	759.3	755.8	736.6	717.0	690.3	666.9	647.4	641.5
172.5°	753.7	752.7	749.9	732.5	720.8	698.7	679.2	661.4	657.6
175°	738.4	738.4	740.4	729.6	725.7	707.4	693.7	682.8	676.9
177.5°	720.8	721.3	725.6	725.1	725.6	715.1	711.2	701.0	699.9
180°	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0

(END OF REPORT)