

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: P522536

Luminaire Tested: **SQW-F-050U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522536
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

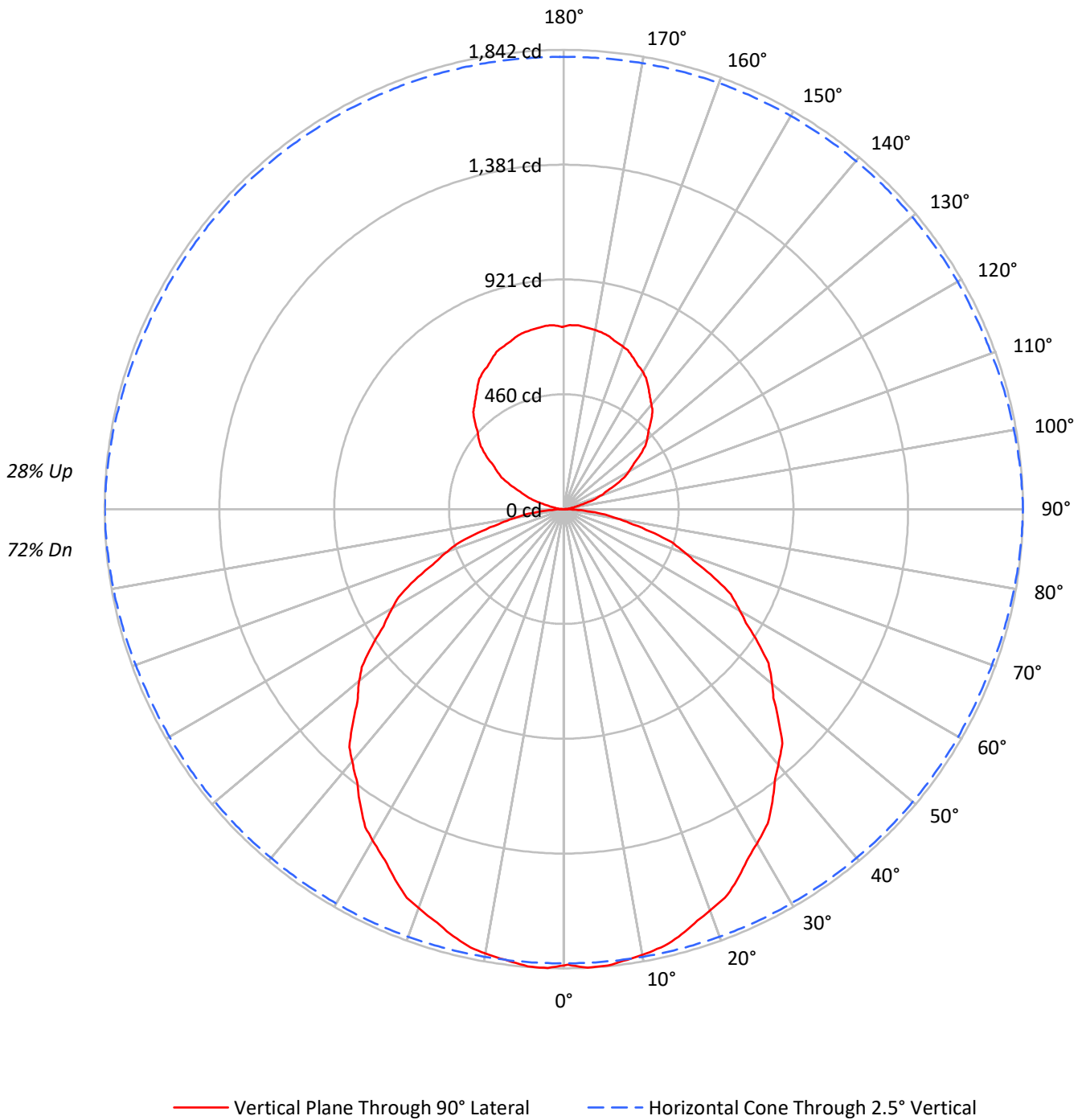
Lumens per Lamp: N/A
Luminaire Lumens: 7131.7 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29497	29497	29497
5°	29577	29807	29313
10°	29535	29719	29117
15°	29466	29585	28938
20°	29222	29362	28575
25°	28883	29083	28067
30°	28519	28728	27591
35°	28186	28407	27001
40°	27695	28015	26494
45°	27190	27585	25795
50°	26819	27151	25206
55°	26156	26587	24352
60°	25404	25998	23402
65°	24458	25352	22204
70°	23207	24024	20899
75°	21584	22352	18858
80°	18354	19396	15714
85°	13950	15080	10745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	2.4
10°-20°	493.6	6.9
20°-30°	742.3	10.4
30°-40°	886.8	12.4
40°-50°	912.0	12.8
50°-60°	821.0	11.5
60°-70°	625.4	8.8
70°-80°	356.5	5.0
80°-90°	92.8	1.3
90°-100°	18.4	0.3
100°-110°	81.8	1.1
110°-120°	235.0	3.3
120°-130°	357.9	5.0
130°-140°	388.5	5.4
140°-150°	371.5	5.2
150°-160°	306.0	4.3
160°-170°	200.3	2.8
170°-180°	69.3	1.0
0°-30°	1408.7	19.8
0°-40°	2295.5	32.2
0°-60°	4028.6	56.5
0°-90°	5103.2	71.6
90°-120°	335.1	4.7
90°-150°	1452.9	20.4
90°-180°	2029.0	28.5
0°-180°	7131.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1827	1827	1827	1827	1827	
5°	1825	1824	1839	1813	1809	173
15°	1763	1763	1770	1740	1731	497
25°	1621	1636	1632	1602	1576	747
35°	1430	1446	1441	1407	1370	893
45°	1191	1206	1208	1164	1130	920
55°	929	940	944	897	865	830
65°	640	652	664	613	581	633
75°	346	353	358	319	302	365
85°	75	88	81	69	58	89
90°	0	0	0	0	0	3
95°	3	4	13	29	28	4
105°	18	50	94	65	69	21
115°	176	463	237	111	124	243
125°	700	609	378	187	159	614
135°	771	698	501	310	247	596
145°	807	752	597	441	377	506
155°	816	782	669	554	505	377
165°	798	778	717	644	613	226
175°	752	754	739	706	689	73
180°	730	730	730	730	730	



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CATALOG NUMBER: SQW-F-050U-125D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9
2.5°	1821.2	1825.2	1826.9	1825.7	1841.6	1823.3	1823.7	1818.7	1813.1
5°	1824.9	1822.9	1823.9	1820.2	1839.1	1815.3	1812.7	1807.6	1808.6
7.5°	1812.9	1811.5	1812.3	1807.0	1824.9	1800.8	1798.8	1793.5	1793.1
10°	1801.5	1798.5	1802.5	1794.8	1812.7	1787.8	1784.2	1778.0	1776.0
12.5°	1788.4	1784.7	1789.5	1780.1	1797.2	1769.9	1769.5	1760.9	1759.7
15°	1762.8	1762.8	1762.8	1755.0	1769.9	1742.1	1740.4	1731.2	1731.2
17.5°	1726.8	1727.6	1732.9	1722.6	1734.9	1708.0	1704.6	1693.8	1692.4
20°	1700.7	1700.7	1710.9	1694.9	1708.9	1682.0	1679.3	1662.1	1663.1
22.5°	1669.8	1669.8	1682.4	1668.0	1680.4	1653.5	1650.0	1629.5	1630.5
25°	1621.3	1619.3	1635.6	1621.6	1632.5	1605.7	1602.0	1577.5	1575.5
27.5°	1567.2	1569.0	1584.7	1570.1	1580.0	1550.7	1551.7	1522.5	1518.9
30°	1529.7	1530.7	1548.0	1535.0	1540.9	1514.1	1513.4	1481.8	1479.9
32.5°	1490.6	1490.8	1509.0	1493.5	1502.7	1475.0	1471.1	1441.1	1438.3
35°	1430.0	1429.0	1446.3	1435.2	1441.2	1412.3	1406.6	1378.9	1369.9
37.5°	1361.2	1362.0	1378.3	1371.9	1375.6	1348.0	1336.8	1309.2	1305.8
40°	1314.0	1314.0	1330.2	1326.2	1329.2	1302.4	1289.5	1261.9	1257.0
42.5°	1265.1	1266.7	1281.4	1278.3	1285.3	1256.0	1239.9	1213.9	1207.3
45°	1190.8	1193.8	1206.1	1203.1	1208.1	1183.2	1164.3	1136.7	1129.7
47.5°	1120.6	1117.6	1131.4	1129.6	1131.4	1107.1	1088.2	1059.6	1054.0
50°	1067.7	1064.7	1076.8	1079.9	1080.9	1055.0	1036.1	1007.5	1003.5
52.5°	1013.1	1010.1	1023.1	1027.8	1028.0	1003.7	981.6	954.6	950.6
55°	929.2	924.3	940.4	946.5	944.5	923.6	896.7	873.1	865.1
57.5°	844.6	844.0	857.8	863.3	862.1	841.4	814.6	790.6	782.5
60°	786.7	783.8	800.0	807.1	805.1	785.2	755.2	733.6	724.7
62.5°	728.9	729.1	743.0	749.3	751.3	727.4	699.8	675.0	668.5
65°	640.2	636.2	652.4	658.6	663.6	638.7	612.7	588.1	581.2
67.5°	551.0	548.0	559.2	566.4	570.8	548.5	523.1	502.7	499.7
70°	491.6	488.6	499.7	506.9	508.9	489.0	462.1	445.7	442.7
72.5°	433.0	430.0	438.7	445.9	450.3	428.8	403.4	387.8	380.9
75°	346.0	344.1	353.2	353.3	358.3	337.4	318.6	303.3	302.3
77.5°	259.3	260.7	267.3	267.7	268.9	253.4	238.6	221.2	220.2
80°	197.4	204.4	208.6	210.6	208.6	198.7	183.2	169.9	169.0
82.5°	146.2	151.5	159.8	158.5	154.9	147.3	135.2	122.7	121.7
85°	75.3	80.3	87.5	87.4	81.4	77.4	69.2	59.0	58.0
87.5°	17.9	21.1	28.5	30.8	25.2	26.0	17.9	10.6	10.6
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	1.7	2.7	10.2	11.4	10.3	9.8
95°	2.7	2.7	4.1	12.9	12.9	20.9	28.6	27.9	27.9
97.5°	6.1	6.8	9.5	39.4	29.4	28.6	40.8	44.9	45.3
100°	8.8	9.5	15.0	64.1	43.5	36.9	43.5	53.1	55.1
102.5°	12.1	13.3	23.7	101.3	61.5	44.2	51.1	58.0	60.0
105°	18.4	20.4	49.7	169.7	93.9	58.6	64.6	68.0	68.7
107.5°	27.6	35.1	135.9	238.6	133.2	77.6	81.1	83.4	84.2
110°	37.4	53.4	236.0	280.3	162.6	92.1	89.8	95.9	94.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	63.0	109.8	346.5	314.4	191.9	109.2	97.9	107.9	108.7
115°	176.2	302.5	463.2	363.0	236.7	138.9	110.9	120.5	124.5
117.5°	442.1	526.0	524.7	408.0	279.7	173.9	126.4	131.0	135.5
120°	594.4	607.1	555.7	438.4	307.4	199.0	139.4	137.5	141.5
122.5°	651.0	640.8	579.1	465.1	335.7	225.2	156.3	144.5	148.0
125°	699.9	679.9	609.4	503.2	377.5	263.8	187.0	159.8	159.2
127.5°	726.9	706.1	639.1	536.2	415.8	303.8	222.0	181.5	175.3
130°	740.0	720.7	659.7	556.5	441.4	331.0	247.6	200.4	191.1
132.5°	755.8	734.9	674.4	577.2	465.9	356.6	273.1	223.2	212.3
135°	771.3	752.0	698.5	604.3	500.6	394.2	310.1	260.9	246.9
137.5°	785.2	767.5	720.5	625.6	531.9	431.2	349.3	301.3	284.3
140°	794.4	775.1	729.8	642.0	550.9	454.5	375.4	327.5	314.2
142.5°	797.7	785.8	739.6	655.8	572.1	476.8	401.6	352.0	339.8
145°	807.3	799.3	751.6	672.3	597.2	510.0	441.4	390.1	376.8
147.5°	813.6	801.6	762.6	690.1	621.6	539.9	477.6	428.3	416.0
150°	814.1	804.8	771.3	701.2	638.0	561.5	499.9	453.4	442.1
152.5°	818.5	807.0	775.6	710.5	649.9	579.8	522.2	478.9	466.6
155°	815.5	807.5	782.2	722.4	668.6	603.4	553.6	515.3	504.7
157.5°	815.5	805.6	783.0	731.8	686.5	629.3	583.0	547.6	539.6
160°	810.0	806.1	783.5	738.3	695.8	643.9	602.6	570.4	559.8
162.5°	807.9	801.2	784.6	742.8	703.9	655.8	619.5	589.0	581.0
165°	798.5	792.5	778.1	744.8	716.9	677.0	644.1	616.8	612.8
167.5°	787.7	783.1	773.6	748.1	725.4	692.9	665.2	643.2	637.7
170°	780.1	772.8	769.2	749.7	729.8	702.5	678.8	658.9	652.9
172.5°	767.1	766.1	763.3	745.6	733.6	711.1	691.3	673.1	669.3
175°	751.6	751.6	753.6	742.6	738.6	720.0	706.0	695.0	689.0
177.5°	733.6	734.1	738.5	738.0	738.5	727.9	723.8	713.4	712.4
180°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8

(END OF REPORT)