

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: P522365

Luminaire Tested: **SQW-F-050U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522365
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-050U-125D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

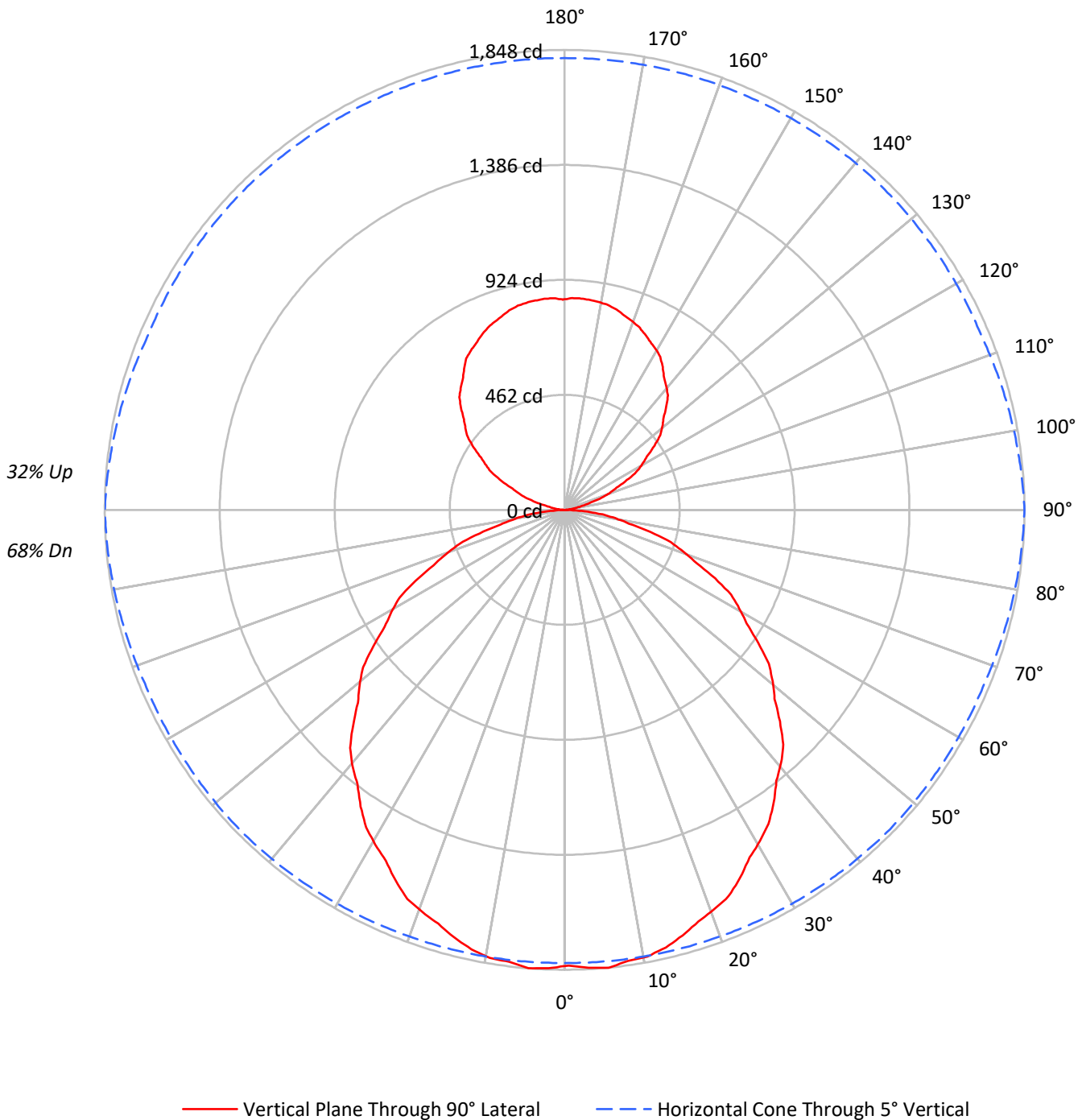
Lumens per Lamp: N/A
Luminaire Lumens: 7466.5 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 76.9
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	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	102	97	93	89	96	92	88	85	82	79	77	73	71	69	64	63	61	57
2	93	85	78	73	87	80	74	70	72	67	63	64	60	57	56	54	51	48
3	84	74	67	61	79	70	64	58	63	58	53	56	52	48	50	46	44	40
4	77	66	57	51	72	62	55	49	56	50	45	50	45	41	44	41	37	34
5	71	59	50	44	66	56	48	42	50	44	39	45	40	36	40	36	32	30
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	29	26
7	60	48	39	33	57	45	38	32	41	35	30	37	32	28	33	29	25	23
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20
9	52	40	32	26	49	38	31	26	34	28	24	31	26	22	28	24	20	18
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29560	29560	29560
5°	29503	29943	29418
10°	29552	29913	29175
15°	29518	29658	29187
20°	29228	29443	28563
25°	28777	29168	28180
30°	28594	28808	27813
35°	28146	28519	27137
40°	27760	28224	26812
45°	27209	27686	26133
50°	26593	27198	25596
55°	25914	26534	24679
60°	25100	26046	23883
65°	23981	25379	22502
70°	22669	24000	21139
75°	20755	22190	19058
80°	17899	19256	16151
85°	12782	14931	11245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	2.3
10°-20°	494.8	6.6
20°-30°	744.5	10.0
30°-40°	889.3	11.9
40°-50°	913.9	12.2
50°-60°	821.5	11.0
60°-70°	624.4	8.4
70°-80°	355.8	4.8
80°-90°	92.6	1.2
90°-100°	22.2	0.3
100°-110°	96.1	1.3
110°-120°	274.1	3.7
120°-130°	416.8	5.6
130°-140°	450.8	6.0
140°-150°	430.7	5.8
150°-160°	354.2	4.7
160°-170°	231.5	3.1
170°-180°	80.1	1.1
0°-30°	1412.6	18.9
0°-40°	2302.0	30.8
0°-60°	4037.3	54.1
0°-90°	5110.2	68.4
90°-120°	392.4	5.3
90°-150°	1690.6	22.6
90°-180°	2356.0	31.6
0°-180°	7466.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1831	1831	1831	1831	1831	
5°	1820	1832	1848	1819	1815	173
15°	1766	1760	1774	1754	1746	497
25°	1615	1642	1637	1616	1582	747
35°	1428	1449	1447	1414	1377	892
45°	1192	1205	1212	1174	1144	916
55°	921	940	943	901	877	821
65°	628	642	664	620	589	621
75°	333	344	356	326	306	352
85°	69	83	81	72	61	85
90°	0	0	0	0	0	2
95°	4	5	15	36	34	5
105°	22	57	111	76	82	26
115°	202	538	277	132	149	278
125°	806	709	444	218	187	708
135°	892	807	584	362	287	687
145°	929	870	695	515	439	582
155°	940	898	776	644	585	434
165°	918	898	832	746	711	261
175°	864	867	852	821	799	84
180°	844	844	844	844	844	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8
2.5°	1828.3	1826.6	1834.1	1826.1	1841.7	1833.5	1828.3	1831.3	1814.9
5°	1820.3	1824.4	1831.8	1825.0	1847.5	1814.8	1819.3	1816.1	1815.1
7.5°	1814.3	1817.5	1815.5	1811.3	1829.5	1808.7	1806.7	1800.0	1797.9
10°	1802.5	1806.6	1800.5	1803.0	1824.5	1793.8	1794.2	1777.5	1779.5
12.5°	1780.8	1789.8	1787.9	1778.9	1804.4	1778.7	1784.1	1772.3	1767.8
15°	1765.9	1756.7	1759.7	1762.0	1774.3	1745.7	1754.4	1739.9	1746.1
17.5°	1734.5	1728.8	1730.8	1724.6	1738.7	1709.3	1714.0	1702.4	1698.4
20°	1701.1	1701.1	1703.2	1700.3	1713.6	1685.0	1686.4	1666.5	1662.4
22.5°	1676.0	1671.9	1683.1	1674.3	1686.0	1658.2	1658.0	1633.3	1642.3
25°	1615.3	1620.4	1642.5	1622.9	1637.3	1602.5	1616.3	1589.0	1581.8
27.5°	1568.8	1570.5	1582.6	1572.0	1582.0	1555.2	1567.6	1533.0	1522.8
30°	1533.7	1529.6	1552.5	1536.0	1545.2	1525.8	1527.4	1489.8	1491.8
32.5°	1485.1	1486.0	1511.5	1499.9	1504.2	1478.2	1483.0	1456.0	1445.0
35°	1428.0	1428.0	1448.9	1436.6	1446.9	1415.1	1414.4	1386.0	1376.8
37.5°	1361.5	1354.9	1380.3	1373.8	1381.8	1352.3	1342.0	1315.1	1309.8
40°	1317.1	1313.0	1331.8	1327.8	1339.1	1310.5	1295.2	1270.1	1272.1
42.5°	1260.2	1264.3	1279.9	1281.7	1288.0	1256.9	1247.5	1219.0	1221.1
45°	1191.6	1189.5	1205.2	1204.3	1212.5	1185.9	1173.8	1140.4	1144.5
47.5°	1106.4	1109.3	1126.1	1124.3	1135.5	1111.8	1092.4	1070.1	1065.0
50°	1058.7	1060.8	1073.4	1075.6	1082.8	1058.2	1043.0	1020.0	1019.0
52.5°	1001.0	998.9	1017.3	1022.0	1027.5	1009.5	990.3	963.9	960.4
55°	920.6	921.7	939.5	946.7	942.6	930.3	900.8	874.6	876.7
57.5°	832.5	840.1	848.4	861.0	861.8	842.0	822.7	797.3	793.2
60°	777.3	778.3	794.0	806.6	806.6	785.1	761.6	739.6	739.6
62.5°	714.5	719.6	732.9	744.8	750.5	733.1	703.9	681.0	679.4
65°	627.7	628.7	642.3	658.2	664.3	640.8	620.4	594.1	589.0
67.5°	537.9	542.2	553.2	565.7	572.9	547.5	526.0	505.5	507.2
70°	480.2	481.2	489.6	505.4	508.4	488.0	466.6	447.8	447.8
72.5°	417.4	424.2	431.0	445.1	447.3	429.3	412.2	394.1	390.0
75°	332.7	337.8	344.2	352.6	355.7	340.4	326.4	310.6	305.5
77.5°	248.6	253.5	264.3	265.5	264.9	254.3	243.3	231.5	226.4
80°	192.5	196.6	208.2	210.2	207.1	199.0	187.3	178.8	173.7
82.5°	139.8	147.1	155.5	157.5	153.6	149.5	139.6	129.4	125.1
85°	69.0	73.1	82.6	86.7	80.6	78.5	72.2	63.7	60.7
87.5°	13.4	16.7	25.1	30.8	23.4	27.5	20.9	15.0	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	2.3	3.4	12.4	13.8	12.0	12.0
95°	3.6	3.6	5.0	15.8	15.1	25.6	35.8	33.7	33.7
97.5°	7.3	8.0	11.5	46.6	35.1	34.1	48.5	53.9	54.9
100°	10.8	11.5	17.2	76.2	52.3	44.6	53.0	63.1	65.2
102.5°	14.8	16.0	27.5	119.8	73.5	52.4	60.5	69.5	72.1
105°	22.2	24.3	56.6	200.8	111.1	68.4	76.0	79.6	81.7
107.5°	33.0	41.5	152.5	282.2	157.7	90.3	98.4	97.8	99.6
110°	44.4	62.0	263.8	326.7	192.1	107.3	107.5	113.2	111.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	73.7	123.2	393.4	369.5	226.5	127.7	116.1	128.8	129.5
115°	202.2	347.2	537.6	429.5	277.4	163.9	131.9	144.2	149.1
117.5°	501.2	604.1	611.5	482.8	328.2	204.3	150.0	155.4	161.9
120°	679.6	700.6	645.9	515.5	362.0	233.0	164.9	162.9	169.9
122.5°	749.5	742.0	674.0	546.0	395.3	263.5	183.2	172.0	176.8
125°	805.7	786.1	709.0	588.1	443.7	309.2	217.9	187.1	187.1
127.5°	839.3	816.4	741.1	625.5	487.5	355.3	259.6	211.6	205.0
130°	858.8	834.3	760.6	651.4	516.1	385.1	288.9	232.7	222.2
132.5°	873.7	851.4	778.9	671.7	544.2	414.3	318.1	259.0	241.7
135°	891.8	872.8	807.2	702.7	583.5	458.1	362.0	304.3	286.7
137.5°	903.4	888.7	832.6	728.2	619.9	501.5	406.3	348.3	332.5
140°	909.7	897.8	845.2	743.2	642.3	529.5	437.3	378.2	363.4
142.5°	916.0	906.3	854.3	760.0	664.1	557.4	467.7	408.5	392.7
145°	929.0	917.8	869.5	780.2	695.3	596.5	514.7	452.7	438.7
147.5°	938.2	924.8	882.0	801.8	724.9	631.9	557.9	498.0	484.2
150°	940.5	926.5	888.9	813.5	742.7	653.6	584.2	527.3	514.0
152.5°	938.8	928.1	894.1	823.3	757.6	674.7	608.3	555.4	543.2
155°	939.8	930.0	898.2	836.6	776.4	704.2	644.5	597.6	585.0
157.5°	935.5	929.0	901.1	846.8	793.7	730.5	677.6	638.1	625.4
160°	935.5	925.7	901.1	852.7	805.7	747.6	698.2	662.8	652.3
162.5°	929.2	920.5	900.5	856.9	817.2	763.5	717.7	684.7	677.0
165°	917.6	910.6	897.5	862.4	831.5	785.3	745.5	716.0	711.1
167.5°	908.5	898.9	891.8	862.2	841.3	800.9	769.0	744.6	741.8
170°	898.2	891.9	886.0	860.6	845.9	812.2	785.7	761.2	758.4
172.5°	885.0	881.5	878.6	859.5	848.8	821.8	800.0	777.8	772.8
175°	864.5	867.3	866.7	857.2	851.6	834.1	820.8	804.9	798.6
177.5°	851.9	850.8	853.6	851.9	851.3	840.7	837.0	826.2	829.5
180°	844.5	844.5	844.5	844.5	844.5	844.5	844.5	844.5	844.5

(END OF REPORT)