

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: P522537

Luminaire Tested: **SQW-F-050U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522537
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

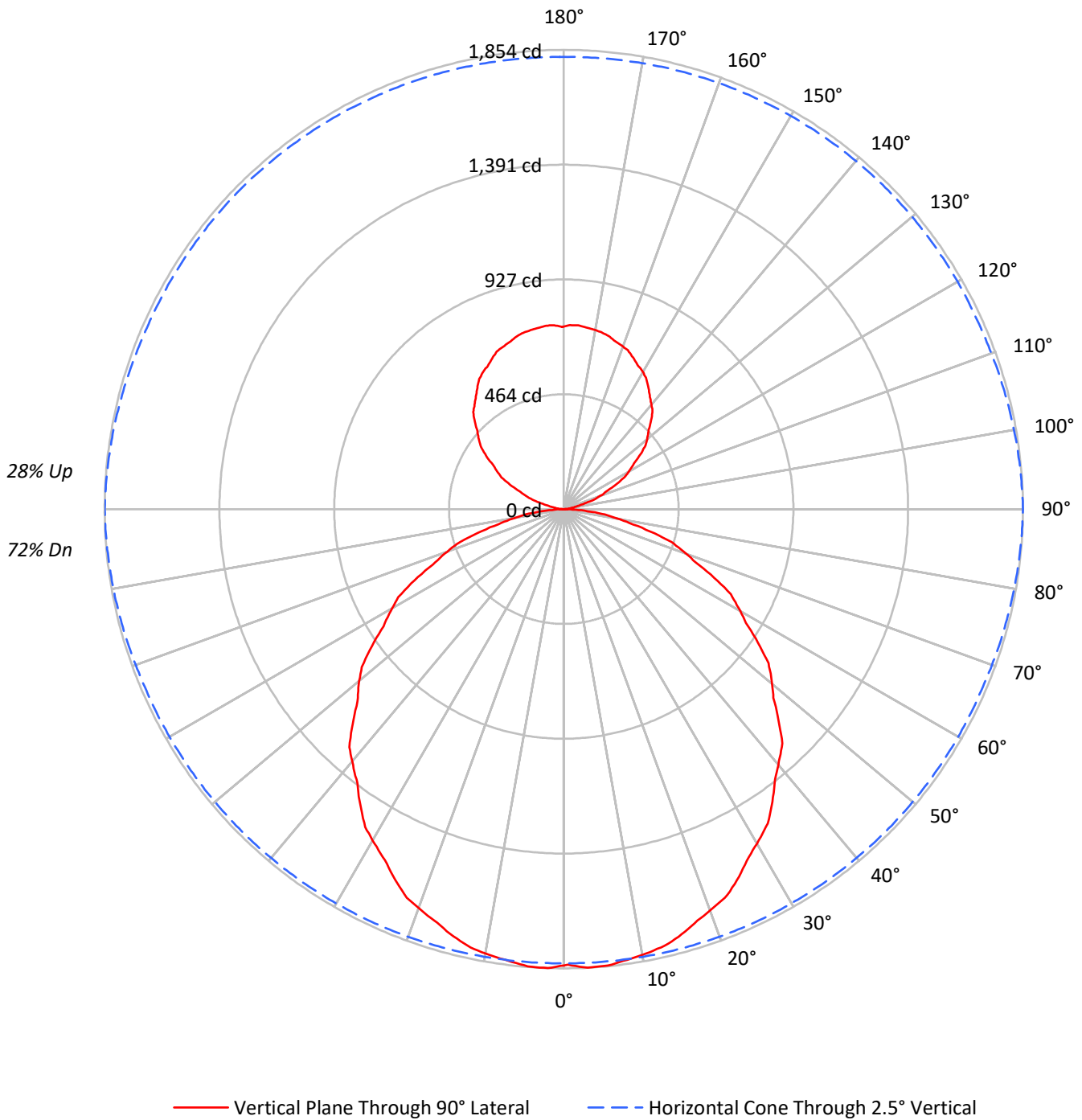
Lumens per Lamp: N/A
Luminaire Lumens: 7180.4 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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°	29699	29699	29699
5°	29778	30011	29512
10°	29737	29921	29316
15°	29666	29787	29137
20°	29421	29562	28770
25°	29081	29282	28260
30°	28715	28924	27777
35°	28377	28600	27187
40°	27883	28207	26673
45°	27375	27773	25971
50°	27000	27336	25380
55°	26337	26767	24518
60°	25578	26176	23560
65°	24627	25524	22353
70°	23363	24189	21045
75°	21734	22501	18983
80°	18484	19535	15816
85°	14042	15191	10819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	2.4
10°-20°	497.0	6.9
20°-30°	747.4	10.4
30°-40°	892.8	12.4
40°-50°	918.2	12.8
50°-60°	826.6	11.5
60°-70°	629.6	8.8
70°-80°	358.9	5.0
80°-90°	93.5	1.3
90°-100°	18.6	0.3
100°-110°	82.3	1.1
110°-120°	236.5	3.3
120°-130°	360.3	5.0
130°-140°	391.1	5.4
140°-150°	374.0	5.2
150°-160°	308.1	4.3
160°-170°	201.6	2.8
170°-180°	69.8	1.0
0°-30°	1418.3	19.8
0°-40°	2311.2	32.2
0°-60°	4056.0	56.5
0°-90°	5138.0	71.6
90°-120°	337.4	4.7
90°-150°	1462.8	20.4
90°-180°	2042.0	28.4
0°-180°	7180.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1839	1839	1839	1839	1839	
5°	1837	1836	1852	1825	1821	174
15°	1775	1775	1782	1752	1743	500
25°	1632	1647	1644	1613	1586	752
35°	1440	1456	1451	1416	1379	899
45°	1199	1214	1216	1172	1137	926
55°	936	947	951	903	871	836
65°	645	657	668	617	585	637
75°	348	356	361	321	304	367
85°	76	88	82	70	58	90
90°	0	0	0	0	0	3
95°	3	4	13	29	28	4
105°	18	50	94	65	69	22
115°	177	466	238	112	125	245
125°	705	614	380	188	160	619
135°	776	703	504	312	249	600
145°	813	757	601	444	379	509
155°	821	788	673	557	508	380
165°	804	783	722	648	617	228
175°	757	759	744	711	694	73
180°	735	735	735	735	735	



TEST NUMBER: P522537

CATALOG NUMBER: SQW-F-050U-125D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4
2.5°	1833.6	1837.6	1839.4	1838.1	1854.1	1835.7	1836.1	1831.1	1825.4
5°	1837.3	1835.3	1836.3	1832.6	1851.7	1827.6	1825.0	1819.9	1820.9
7.5°	1825.2	1823.8	1824.6	1819.3	1837.3	1813.1	1811.1	1805.8	1805.4
10°	1813.8	1810.8	1814.8	1807.0	1825.0	1800.0	1796.3	1790.1	1788.1
12.5°	1800.6	1796.8	1801.7	1792.2	1809.5	1782.0	1781.6	1772.9	1771.7
15°	1774.8	1774.8	1774.8	1767.0	1782.0	1753.9	1752.3	1743.1	1743.1
17.5°	1738.5	1739.3	1744.7	1734.3	1746.7	1719.7	1716.2	1705.3	1703.9
20°	1712.3	1712.3	1722.6	1706.5	1720.5	1693.5	1690.8	1673.4	1674.4
22.5°	1681.2	1681.2	1693.9	1679.4	1691.8	1664.8	1661.3	1640.6	1641.6
25°	1632.4	1630.4	1646.7	1632.6	1643.7	1616.6	1612.9	1588.3	1586.3
27.5°	1577.9	1579.7	1595.5	1580.8	1590.8	1561.3	1562.3	1532.9	1529.3
30°	1540.2	1541.2	1558.6	1545.4	1551.4	1524.4	1523.8	1492.0	1489.9
32.5°	1500.8	1501.0	1519.3	1503.7	1512.9	1485.0	1481.1	1450.9	1448.1
35°	1439.7	1438.7	1456.1	1445.0	1451.0	1422.0	1416.2	1388.3	1379.3
37.5°	1370.5	1371.3	1387.7	1381.2	1385.0	1357.2	1345.9	1318.1	1314.7
40°	1322.9	1322.9	1339.3	1335.3	1338.3	1311.2	1298.3	1270.5	1265.5
42.5°	1273.7	1275.3	1290.1	1287.0	1294.0	1264.6	1248.3	1222.1	1215.5
45°	1198.9	1201.9	1214.3	1211.3	1216.3	1191.3	1172.3	1144.5	1137.4
47.5°	1128.2	1125.2	1139.1	1137.3	1139.1	1114.6	1095.6	1066.8	1061.2
50°	1074.9	1071.9	1084.2	1087.3	1088.3	1062.2	1043.2	1014.4	1010.4
52.5°	1020.0	1017.0	1030.1	1034.8	1035.0	1010.5	988.2	961.1	957.1
55°	935.6	930.6	946.8	952.9	950.9	929.9	902.8	879.0	871.0
57.5°	850.3	849.7	863.6	869.1	867.9	847.1	820.2	796.0	787.8
60°	792.1	789.1	805.4	812.6	810.6	790.5	760.3	738.6	729.6
62.5°	733.9	734.1	748.0	754.4	756.5	732.4	704.6	679.7	673.0
65°	644.6	640.5	656.8	663.1	668.1	643.1	616.9	592.1	585.1
67.5°	554.8	551.8	563.0	570.3	574.7	552.2	526.7	506.1	503.1
70°	494.9	491.9	503.1	510.4	512.4	492.3	465.2	448.8	445.8
72.5°	435.9	432.9	441.7	448.9	453.3	431.7	406.2	390.5	383.5
75°	348.4	346.4	355.6	355.7	360.7	339.7	320.7	305.3	304.3
77.5°	261.1	262.5	269.1	269.5	270.7	255.1	240.2	222.8	221.8
80°	198.8	205.8	210.1	212.1	210.1	200.0	184.5	171.1	170.1
82.5°	147.2	152.6	160.9	159.6	156.0	148.3	136.1	123.6	122.6
85°	75.8	80.8	88.1	88.0	82.0	78.0	69.7	59.4	58.4
87.5°	18.0	21.2	28.7	31.0	25.4	26.2	18.0	10.7	10.7
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	11.5	10.4	9.9
95°	2.7	2.7	4.1	13.0	13.0	21.0	28.8	28.1	28.1
97.5°	6.2	6.8	9.6	39.6	29.6	28.8	41.1	45.2	45.6
100°	8.9	9.6	15.1	64.6	43.8	37.1	43.8	53.5	55.5
102.5°	12.2	13.4	23.8	101.9	61.9	44.5	51.5	58.4	60.4
105°	18.5	20.5	50.0	170.8	94.5	59.0	65.1	68.5	69.2
107.5°	27.8	35.3	136.8	240.3	134.1	78.1	81.6	84.0	84.8
110°	37.7	53.7	237.6	282.2	163.7	92.7	90.4	96.5	95.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	63.4	110.5	348.8	316.6	193.2	110.0	98.6	108.6	109.4
115°	177.4	304.6	466.3	365.5	238.3	139.9	111.6	121.3	125.3
117.5°	445.1	529.6	528.2	410.8	281.6	175.1	127.2	131.9	136.4
120°	598.5	611.2	559.5	441.4	309.5	200.4	140.4	138.4	142.4
122.5°	655.5	645.2	583.0	468.3	338.0	226.7	157.4	145.5	149.0
125°	704.6	684.6	613.6	506.6	380.1	265.6	188.3	160.9	160.2
127.5°	731.9	710.9	643.4	539.9	418.7	305.9	223.5	182.7	176.5
130°	745.0	725.6	664.2	560.3	444.4	333.3	249.3	201.8	192.4
132.5°	760.9	739.9	679.0	581.2	469.1	359.0	275.0	224.8	213.8
135°	776.5	757.1	703.3	608.4	504.0	396.9	312.3	262.6	248.6
137.5°	790.5	772.7	725.5	629.9	535.5	434.1	351.7	303.4	286.2
140°	799.8	780.4	734.8	646.4	554.7	457.6	378.0	329.8	316.4
142.5°	803.1	791.2	744.6	660.3	576.0	480.0	404.3	354.4	342.1
145°	812.8	804.8	756.7	676.9	601.2	513.5	444.4	392.8	379.4
147.5°	819.1	807.1	767.8	694.9	625.9	543.5	480.9	431.3	418.8
150°	819.7	810.3	776.5	705.9	642.3	565.3	503.3	456.5	445.1
152.5°	824.1	812.5	780.9	715.3	654.4	583.8	525.8	482.2	469.8
155°	821.1	813.0	787.5	727.4	673.1	607.5	557.4	518.8	508.1
157.5°	821.1	811.1	788.3	736.7	691.2	633.6	587.0	551.3	543.3
160°	815.6	811.6	788.9	743.4	700.5	648.3	606.7	574.3	563.6
162.5°	813.4	806.7	790.0	747.8	708.7	660.3	623.7	593.0	584.9
165°	803.9	797.9	783.4	749.9	721.8	681.6	648.5	621.0	617.0
167.5°	793.1	788.4	778.9	753.2	730.4	697.6	669.7	647.5	642.0
170°	785.4	778.1	774.5	754.9	734.8	707.3	683.4	663.4	657.4
172.5°	772.3	771.4	768.5	750.7	738.6	716.0	696.0	677.7	673.8
175°	756.7	756.7	758.7	747.7	743.7	724.9	710.8	699.7	693.7
177.5°	738.6	739.1	743.5	743.0	743.5	732.8	728.7	718.3	717.2
180°	734.8	734.8	734.8	734.8	734.8	734.8	734.8	734.8	734.8

(END OF REPORT)