

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: P522327

Luminaire Tested: **SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522327
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-025U-125D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

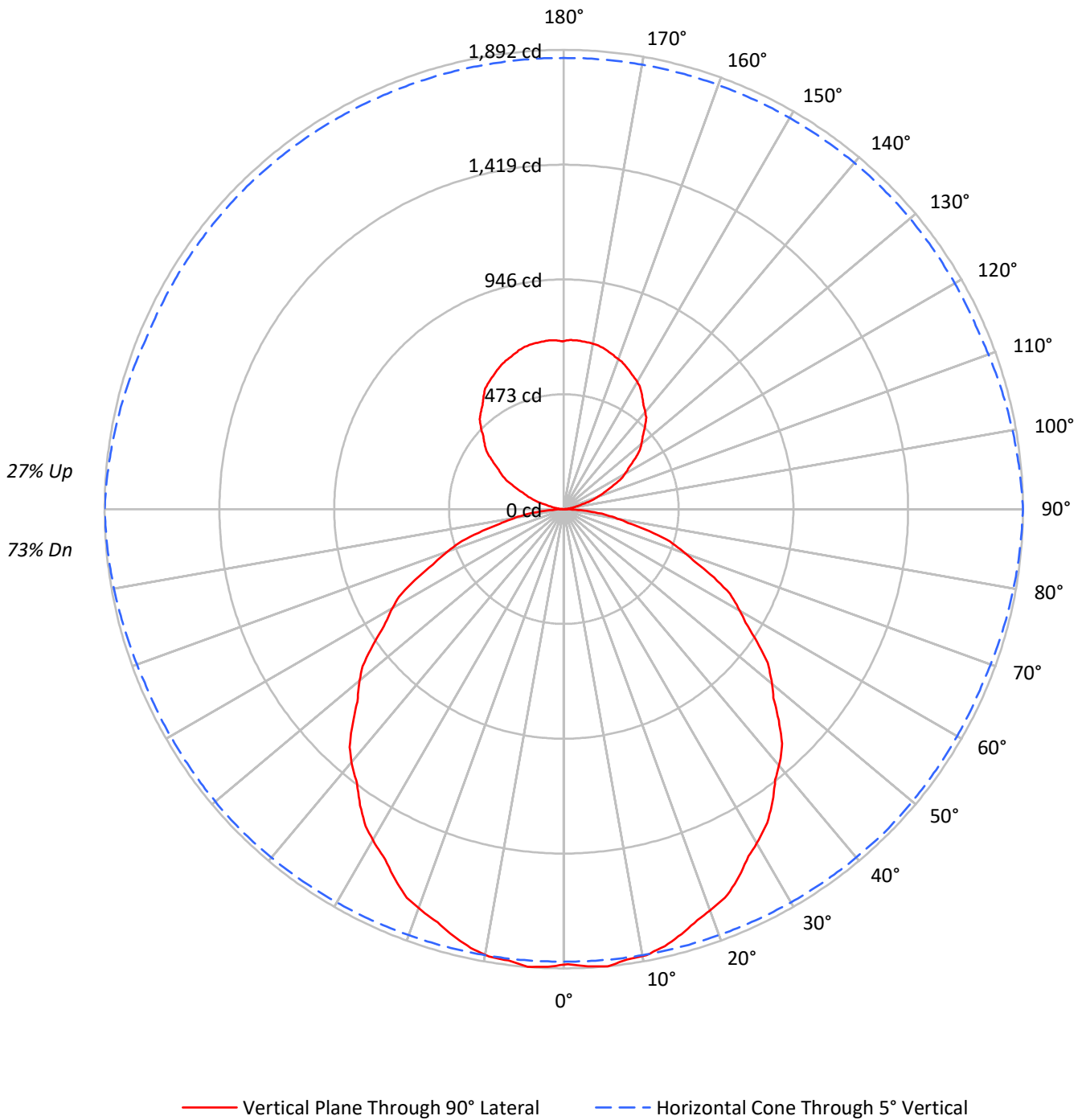
Lumens per Lamp: N/A
Luminaire Lumens: 7160.9 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73
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



TEST NUMBER: P522327
CATALOG NUMBER: SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P522327

CATALOG NUMBER: SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73				73
1	103	98	94	90	97	93	90	86	84	81	79	76	74	72	68	66	65	61				61
2	93	86	79	74	88	81	76	71	74	69	65	66	63	60	60	57	54	51				51
3	85	75	67	61	80	72	65	59	65	59	54	59	54	50	53	49	46	43				43
4	78	66	58	52	74	63	56	50	57	51	46	52	47	43	47	43	40	37				37
5	72	59	51	44	68	57	49	43	51	45	40	47	41	37	42	38	34	32				32
6	66	53	45	39	62	51	43	37	46	40	35	42	37	33	38	34	30	28				28
7	61	48	40	34	58	46	38	33	42	36	31	38	33	29	35	30	27	24				24
8	57	44	36	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22				22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	30	25	22	20				20
10	49	37	29	24	47	35	28	24	33	26	22	30	25	21	27	23	20	18				18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30265	30265	30265
5°	30208	30658	30120
10°	30258	30627	29872
15°	30223	30365	29882
20°	29926	30146	29244
25°	29462	29863	28853
30°	29276	29496	28476
35°	28819	29199	27784
40°	28424	28896	27453
45°	27857	28346	26756
50°	27228	27846	26206
55°	26534	27167	25267
60°	25701	26666	24454
65°	24554	25987	23037
70°	23207	24576	21640
75°	21248	22720	19513
80°	18326	19721	16532
85°	13097	15283	11504



TEST NUMBER: P522327

CATALOG NUMBER: SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	2.5
10°-20°	506.7	7.1
20°-30°	762.3	10.6
30°-40°	910.6	12.7
40°-50°	935.7	13.1
50°-60°	841.1	11.7
60°-70°	639.4	8.9
70°-80°	364.3	5.1
80°-90°	94.8	1.3
90°-100°	18.2	0.3
100°-110°	78.7	1.1
110°-120°	224.4	3.1
120°-130°	341.1	4.8
130°-140°	369.0	5.2
140°-150°	352.5	4.9
150°-160°	289.9	4.0
160°-170°	189.5	2.6
170°-180°	65.5	0.9
0°-30°	1446.3	20.2
0°-40°	2356.9	32.9
0°-60°	4133.7	57.7
0°-90°	5232.1	73.1
90°-120°	321.2	4.5
90°-150°	1383.8	19.3
90°-180°	1929.0	26.9
0°-180°	7160.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1874	1874	1874	1874	1874	
5°	1864	1876	1892	1863	1858	177
15°	1808	1802	1817	1796	1788	509
25°	1654	1682	1676	1655	1620	765
35°	1462	1484	1481	1448	1410	914
45°	1220	1234	1241	1202	1172	938
55°	943	962	965	922	898	841
65°	643	658	680	635	603	635
75°	341	352	364	334	313	360
85°	71	85	82	74	62	87
90°	0	0	0	0	0	2
95°	3	4	12	29	28	4
105°	18	46	91	62	67	21
115°	166	440	227	108	122	228
125°	660	580	363	178	153	580
135°	730	661	478	296	235	563
145°	760	712	569	421	359	476
155°	769	735	636	528	479	355
165°	751	735	681	610	582	213
175°	708	709	697	672	654	69
180°	691	691	691	691	691	



TEST NUMBER: P522327

CATALOG NUMBER: SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5
2.5°	1871.9	1870.2	1877.9	1869.7	1885.6	1877.2	1871.9	1875.0	1858.2
5°	1863.8	1868.0	1875.6	1868.6	1891.6	1858.1	1862.7	1859.5	1858.4
7.5°	1857.6	1860.9	1858.8	1854.6	1873.2	1851.8	1849.8	1842.9	1840.8
10°	1845.6	1849.7	1843.4	1846.1	1868.1	1836.6	1837.0	1819.9	1822.0
12.5°	1823.3	1832.5	1830.6	1821.3	1847.5	1821.1	1826.7	1814.6	1810.0
15°	1808.1	1798.6	1801.6	1804.1	1816.6	1787.3	1796.3	1781.4	1787.7
17.5°	1775.9	1770.1	1772.1	1765.8	1780.2	1750.1	1754.9	1743.1	1738.9
20°	1741.7	1741.7	1743.8	1740.9	1754.5	1725.2	1726.7	1706.2	1702.0
22.5°	1716.0	1711.8	1723.2	1714.3	1726.2	1697.7	1697.5	1672.2	1681.5
25°	1653.8	1659.1	1681.7	1661.7	1676.3	1640.7	1654.9	1626.9	1619.6
27.5°	1606.3	1607.9	1620.4	1609.5	1619.8	1592.3	1605.0	1569.6	1559.1
30°	1570.3	1566.1	1589.6	1572.6	1582.1	1562.2	1563.9	1525.3	1527.4
32.5°	1520.6	1521.4	1547.6	1535.7	1540.1	1513.5	1518.4	1490.8	1479.4
35°	1462.1	1462.1	1483.5	1470.9	1481.4	1448.9	1448.2	1419.0	1409.6
37.5°	1394.0	1387.3	1413.3	1406.6	1414.8	1384.6	1374.0	1346.5	1341.1
40°	1348.6	1344.4	1363.6	1359.5	1371.0	1341.7	1326.1	1300.4	1302.5
42.5°	1290.3	1294.5	1310.4	1312.3	1318.8	1286.9	1277.2	1248.1	1250.2
45°	1220.0	1217.9	1233.9	1233.1	1241.4	1214.2	1201.8	1167.6	1171.8
47.5°	1132.8	1135.8	1153.0	1151.1	1162.6	1138.3	1118.5	1095.6	1090.4
50°	1084.0	1086.1	1099.0	1101.3	1108.6	1083.5	1067.9	1044.3	1043.3
52.5°	1024.9	1022.8	1041.6	1046.4	1052.1	1033.6	1013.9	986.9	983.3
55°	942.6	943.6	961.9	969.3	965.1	952.5	922.2	895.5	897.6
57.5°	852.4	860.2	868.7	881.6	882.4	862.1	842.3	816.3	812.1
60°	795.9	796.9	813.0	825.8	825.8	803.8	779.8	757.3	757.3
62.5°	731.6	736.8	750.4	762.6	768.4	750.6	720.7	697.3	695.6
65°	642.7	643.7	657.7	673.9	680.2	656.1	635.2	608.3	603.0
67.5°	550.8	555.2	566.4	579.2	586.6	560.6	538.6	517.6	519.3
70°	491.6	492.7	501.3	517.4	520.6	499.6	477.7	458.4	458.4
72.5°	427.4	434.3	441.3	455.7	458.0	439.6	422.0	403.5	399.3
75°	340.6	345.9	352.4	361.0	364.2	348.5	334.2	318.0	312.8
77.5°	254.5	259.5	270.6	271.8	271.2	260.3	249.1	237.0	231.8
80°	197.1	201.3	213.2	215.2	212.1	203.7	191.7	183.0	177.8
82.5°	143.1	150.6	159.2	161.2	157.2	153.1	142.9	132.5	128.1
85°	70.7	74.9	84.6	88.8	82.5	80.4	73.9	65.3	62.1
87.5°	13.7	17.1	25.7	31.5	24.0	28.2	21.4	15.4	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.9	2.8	10.2	11.3	9.9	9.9
95°	2.9	2.9	4.1	12.9	12.3	20.9	29.3	27.6	27.6
97.5°	6.0	6.6	9.4	38.2	28.8	27.9	39.7	44.1	44.9
100°	8.8	9.4	14.1	62.3	42.8	36.5	43.4	51.7	53.4
102.5°	12.1	13.1	22.5	98.1	60.2	42.9	49.5	56.8	59.0
105°	18.2	19.9	46.4	164.4	91.0	56.0	62.2	65.2	66.9
107.5°	27.0	34.0	124.9	231.0	129.1	73.9	80.5	80.1	81.6
110°	36.4	50.7	215.9	267.4	157.3	87.8	88.0	92.7	91.0



TEST NUMBER: P522327

CATALOG NUMBER: SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	60.3	100.8	322.0	302.5	185.4	104.5	95.1	105.4	106.0
115°	165.5	284.2	440.1	351.6	227.1	134.1	108.0	118.0	122.1
117.5°	410.3	494.5	500.5	395.2	268.6	167.2	122.8	127.2	132.5
120°	556.3	573.5	528.7	422.0	296.3	190.8	135.0	133.3	139.1
122.5°	613.5	607.3	551.7	446.9	323.6	215.7	150.0	140.8	144.7
125°	659.5	643.5	580.3	481.4	363.2	253.1	178.4	153.1	153.1
127.5°	687.0	668.3	606.6	512.0	399.0	290.8	212.5	173.2	167.8
130°	703.0	682.9	622.6	533.2	422.5	315.2	236.5	190.5	181.9
132.5°	715.2	696.9	637.6	549.8	445.5	339.1	260.4	212.0	197.9
135°	730.0	714.5	660.7	575.2	477.6	374.9	296.3	249.1	234.7
137.5°	739.5	727.4	681.5	596.0	507.4	410.5	332.6	285.1	272.1
140°	744.6	734.9	691.8	608.4	525.8	433.4	357.9	309.5	297.5
142.5°	749.8	741.9	699.3	622.1	543.6	456.3	382.8	334.4	321.4
145°	760.5	751.3	711.8	638.6	569.2	488.3	421.3	370.6	359.1
147.5°	768.0	757.0	722.0	656.3	593.4	517.3	456.6	407.7	396.3
150°	769.9	758.4	727.6	665.9	607.9	535.0	478.2	431.6	420.7
152.5°	768.4	759.7	731.8	673.9	620.1	552.3	497.9	454.6	444.7
155°	769.3	761.2	735.2	684.8	635.5	576.4	527.5	489.1	478.8
157.5°	765.7	760.5	737.6	693.2	649.7	597.9	554.6	522.3	511.9
160°	765.7	757.7	737.6	698.0	659.5	611.9	571.5	542.6	534.0
162.5°	760.6	753.5	737.1	701.4	668.9	625.0	587.5	560.5	554.2
165°	751.1	745.3	734.6	705.9	680.7	642.8	610.3	586.1	582.1
167.5°	743.7	735.8	730.0	705.7	688.6	655.6	629.5	609.5	607.2
170°	735.2	730.1	725.3	704.4	692.4	664.9	643.1	623.1	620.8
172.5°	724.4	721.6	719.2	703.6	694.7	672.7	654.8	636.7	632.5
175°	707.7	710.0	709.4	701.7	697.1	682.8	671.9	658.8	653.7
177.5°	697.3	696.4	698.7	697.3	696.9	688.1	685.1	676.3	679.0
180°	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2

(END OF REPORT)