

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: P522323

Luminaire Tested: **SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522323
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

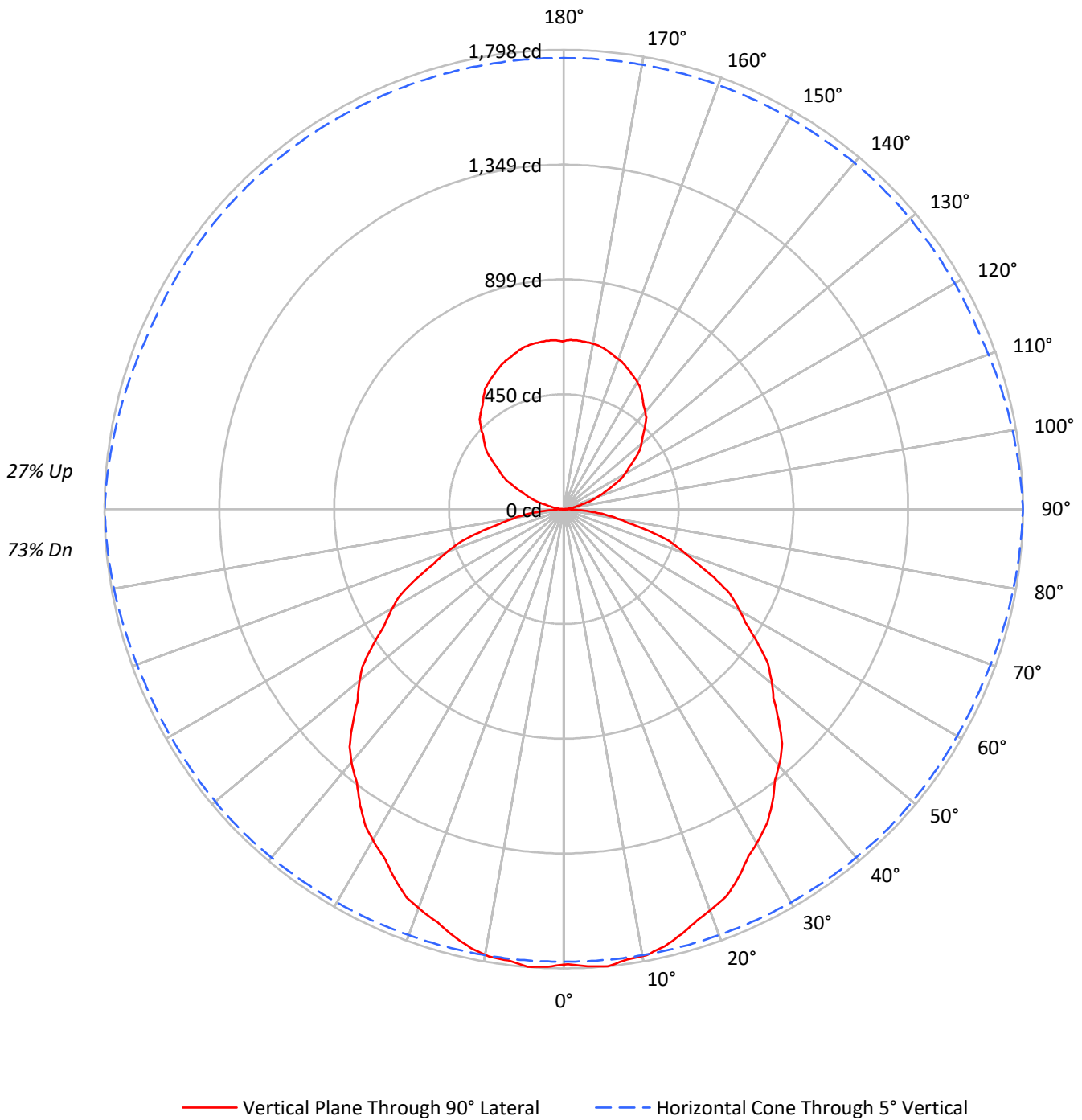
Lumens per Lamp: N/A
Luminaire Lumens: 6807.6 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.5
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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	103	98	94	90	97	93	90	86	84	81	79	76	74	72	68	66	65	61
2	93	86	79	74	88	81	76	71	74	69	65	66	63	60	60	57	54	51
3	85	75	67	61	80	72	65	59	65	59	54	59	54	50	53	49	46	43
4	78	66	58	52	74	63	56	50	57	51	46	52	47	43	47	43	40	37
5	72	59	51	44	68	57	49	43	51	45	40	47	41	37	42	38	34	32
6	66	53	45	39	62	51	43	37	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	38	33	42	36	31	38	33	29	35	30	27	24
8	57	44	36	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	30	25	22	20
10	49	37	29	24	47	35	28	24	33	26	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28772	28772	28772
5°	28716	29146	28634
10°	28765	29116	28398
15°	28732	28868	28408
20°	28448	28660	27802
25°	28009	28390	27430
30°	27831	28040	27072
35°	27397	27758	26414
40°	27021	27472	26097
45°	26482	26948	25437
50°	25885	26472	24912
55°	25225	25827	24020
60°	24432	25352	23247
65°	23343	24703	21903
70°	22065	23363	20573
75°	20200	21597	18546
80°	17424	18745	15714
85°	12449	14524	10948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	2.5
10°-20°	481.7	7.1
20°-30°	724.7	10.6
30°-40°	865.6	12.7
40°-50°	889.5	13.1
50°-60°	799.6	11.7
60°-70°	607.8	8.9
70°-80°	346.3	5.1
80°-90°	90.1	1.3
90°-100°	17.3	0.3
100°-110°	74.8	1.1
110°-120°	213.3	3.1
120°-130°	324.3	4.8
130°-140°	350.8	5.2
140°-150°	335.2	4.9
150°-160°	275.6	4.0
160°-170°	180.1	2.6
170°-180°	62.3	0.9
0°-30°	1375.0	20.2
0°-40°	2240.6	32.9
0°-60°	3929.7	57.7
0°-90°	4974.0	73.1
90°-120°	305.3	4.5
90°-150°	1315.6	19.3
90°-180°	1834.0	26.9
0°-180°	6807.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1782	1782	1782	1782	1782	
5°	1772	1783	1798	1771	1767	169
15°	1719	1713	1727	1708	1700	484
25°	1572	1599	1594	1573	1540	727
35°	1390	1410	1408	1377	1340	869
45°	1160	1173	1180	1142	1114	892
55°	896	914	918	877	853	799
65°	611	625	647	604	573	604
75°	324	335	346	318	297	343
85°	67	80	78	70	59	82
90°	0	0	0	0	0	2
95°	3	4	12	28	26	4
105°	17	44	86	59	64	20
115°	157	418	216	103	116	216
125°	627	552	345	170	146	551
135°	694	628	454	282	223	535
145°	723	677	541	400	341	453
155°	731	699	604	502	455	338
165°	714	698	647	580	553	203
175°	673	674	663	639	621	65
180°	657	657	657	657	657	



TEST NUMBER: P522323

CATALOG NUMBER: SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0	1782.0
2.5°	1779.6	1778.0	1785.3	1777.5	1792.6	1784.6	1779.6	1782.5	1766.5
5°	1771.8	1775.8	1783.0	1776.4	1798.3	1766.4	1770.8	1767.7	1766.7
7.5°	1765.9	1769.1	1767.1	1763.1	1780.8	1760.5	1758.6	1752.0	1750.0
10°	1754.5	1758.5	1752.5	1755.0	1775.9	1746.0	1746.4	1730.1	1732.1
12.5°	1733.3	1742.1	1740.3	1731.5	1756.4	1731.3	1736.6	1725.1	1720.7
15°	1718.9	1709.9	1712.8	1715.1	1727.0	1699.1	1707.7	1693.6	1699.5
17.5°	1688.3	1682.8	1684.7	1678.7	1692.4	1663.7	1668.4	1657.1	1653.1
20°	1655.7	1655.7	1657.8	1655.0	1668.0	1640.1	1641.5	1622.1	1618.1
22.5°	1631.3	1627.3	1638.2	1629.7	1641.1	1614.0	1613.8	1589.8	1598.5
25°	1572.2	1577.2	1598.7	1579.7	1593.6	1559.8	1573.3	1546.6	1539.7
27.5°	1527.0	1528.6	1540.5	1530.1	1539.9	1513.8	1525.8	1492.2	1482.2
30°	1492.8	1488.8	1511.1	1495.1	1504.0	1485.1	1486.7	1450.1	1452.1
32.5°	1445.6	1446.4	1471.2	1459.9	1464.1	1438.8	1443.5	1417.2	1406.5
35°	1390.0	1390.0	1410.3	1398.3	1408.3	1377.4	1376.7	1349.0	1340.1
37.5°	1325.2	1318.8	1343.5	1337.2	1345.0	1316.3	1306.3	1280.1	1274.9
40°	1282.0	1278.0	1296.3	1292.5	1303.4	1275.5	1260.6	1236.3	1238.2
42.5°	1226.6	1230.6	1245.8	1247.6	1253.7	1223.5	1214.2	1186.6	1188.6
45°	1159.8	1157.8	1173.1	1172.2	1180.2	1154.3	1142.5	1110.0	1114.0
47.5°	1076.9	1079.7	1096.1	1094.3	1105.3	1082.2	1063.3	1041.6	1036.6
50°	1030.5	1032.5	1044.8	1047.0	1053.9	1030.0	1015.2	992.8	991.8
52.5°	974.3	972.3	990.2	994.8	1000.2	982.6	963.9	938.2	934.8
55°	896.1	897.1	914.4	921.5	917.5	905.5	876.8	851.3	853.3
57.5°	810.4	817.7	825.8	838.1	838.9	819.6	800.8	776.1	772.1
60°	756.6	757.6	772.9	785.1	785.1	764.2	741.3	719.9	719.9
62.5°	695.5	700.5	713.4	724.9	730.5	713.6	685.1	662.9	661.3
65°	611.0	612.0	625.2	640.6	646.6	623.7	603.8	578.3	573.3
67.5°	523.6	527.8	538.5	550.6	557.6	532.9	512.0	492.1	493.7
70°	467.4	468.4	476.6	491.9	494.9	475.0	454.2	435.8	435.8
72.5°	406.3	412.9	419.5	433.2	435.4	417.9	401.2	383.6	379.6
75°	323.8	328.8	335.0	343.2	346.2	331.3	317.7	302.3	297.3
77.5°	241.9	246.7	257.2	258.4	257.8	247.5	236.9	225.3	220.4
80°	187.4	191.3	202.6	204.6	201.6	193.7	182.3	174.0	169.0
82.5°	136.0	143.2	151.3	153.3	149.5	145.5	135.8	126.0	121.8
85°	67.2	71.2	80.4	84.4	78.4	76.4	70.3	62.0	59.1
87.5°	13.0	16.2	24.4	30.0	22.8	26.8	20.4	14.6	13.0
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	1.8	2.7	9.7	10.7	9.4	9.4
95°	2.8	2.8	3.9	12.3	11.7	19.9	27.9	26.2	26.2
97.5°	5.7	6.2	8.9	36.3	27.3	26.6	37.7	42.0	42.7
100°	8.4	8.9	13.4	59.3	40.7	34.7	41.3	49.1	50.8
102.5°	11.5	12.5	21.4	93.2	57.2	40.8	47.1	54.0	56.1
105°	17.3	18.9	44.1	156.3	86.5	53.2	59.1	62.0	63.6
107.5°	25.7	32.3	118.7	219.6	122.7	70.3	76.5	76.1	77.5
110°	34.6	48.2	205.3	254.2	149.5	83.5	83.7	88.1	86.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	57.3	95.9	306.1	287.5	176.3	99.4	90.4	100.2	100.7
115°	157.3	270.2	418.4	334.2	215.9	127.5	102.6	112.2	116.0
117.5°	390.0	470.1	475.8	375.7	255.4	158.9	116.7	120.9	126.0
120°	528.8	545.2	502.6	401.2	281.7	181.3	128.3	126.8	132.2
122.5°	583.3	577.4	524.5	424.9	307.6	205.0	142.6	133.9	137.6
125°	627.0	611.7	551.7	457.7	345.3	240.6	169.6	145.6	145.6
127.5°	653.1	635.3	576.7	486.8	379.3	276.5	202.0	164.7	159.5
130°	668.3	649.2	591.9	506.9	401.6	299.6	224.8	181.1	172.9
132.5°	679.9	662.5	606.1	522.7	423.5	322.4	247.6	201.5	188.1
135°	693.9	679.2	628.1	546.8	454.1	356.4	281.7	236.8	223.1
137.5°	703.0	691.5	647.9	566.6	482.4	390.2	316.2	271.1	258.7
140°	707.9	698.6	657.7	578.4	499.8	412.0	340.3	294.3	282.8
142.5°	712.8	705.3	664.8	591.4	516.8	433.8	363.9	317.9	305.6
145°	723.0	714.2	676.7	607.1	541.1	464.2	400.5	352.3	341.4
147.5°	730.1	719.6	686.4	624.0	564.1	491.8	434.1	387.6	376.8
150°	731.9	721.0	691.7	633.0	577.9	508.6	454.6	410.3	400.0
152.5°	730.5	722.2	695.7	640.7	589.5	525.0	473.4	432.2	422.7
155°	731.3	723.7	699.0	651.0	604.1	548.0	501.5	465.0	455.2
157.5°	728.0	723.0	701.2	659.0	617.6	568.4	527.3	496.6	486.7
160°	728.0	720.3	701.2	663.6	627.0	581.7	543.3	515.8	507.6
162.5°	723.1	716.3	700.8	666.8	635.9	594.2	558.5	532.8	526.8
165°	714.0	708.6	698.4	671.1	647.1	611.1	580.1	557.2	553.4
167.5°	707.0	699.5	693.9	670.9	654.7	623.3	598.4	579.4	577.2
170°	699.0	694.1	689.5	669.7	658.2	632.1	611.4	592.4	590.2
172.5°	688.7	686.0	683.7	668.9	660.5	639.5	622.5	605.3	601.3
175°	672.7	674.9	674.4	667.1	662.7	649.1	638.7	626.3	621.4
177.5°	662.9	662.1	664.3	662.9	662.5	654.2	651.3	642.9	645.5
180°	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1

(END OF REPORT)