

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: P522362

Luminaire Tested: **SQW-F-050U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522362
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

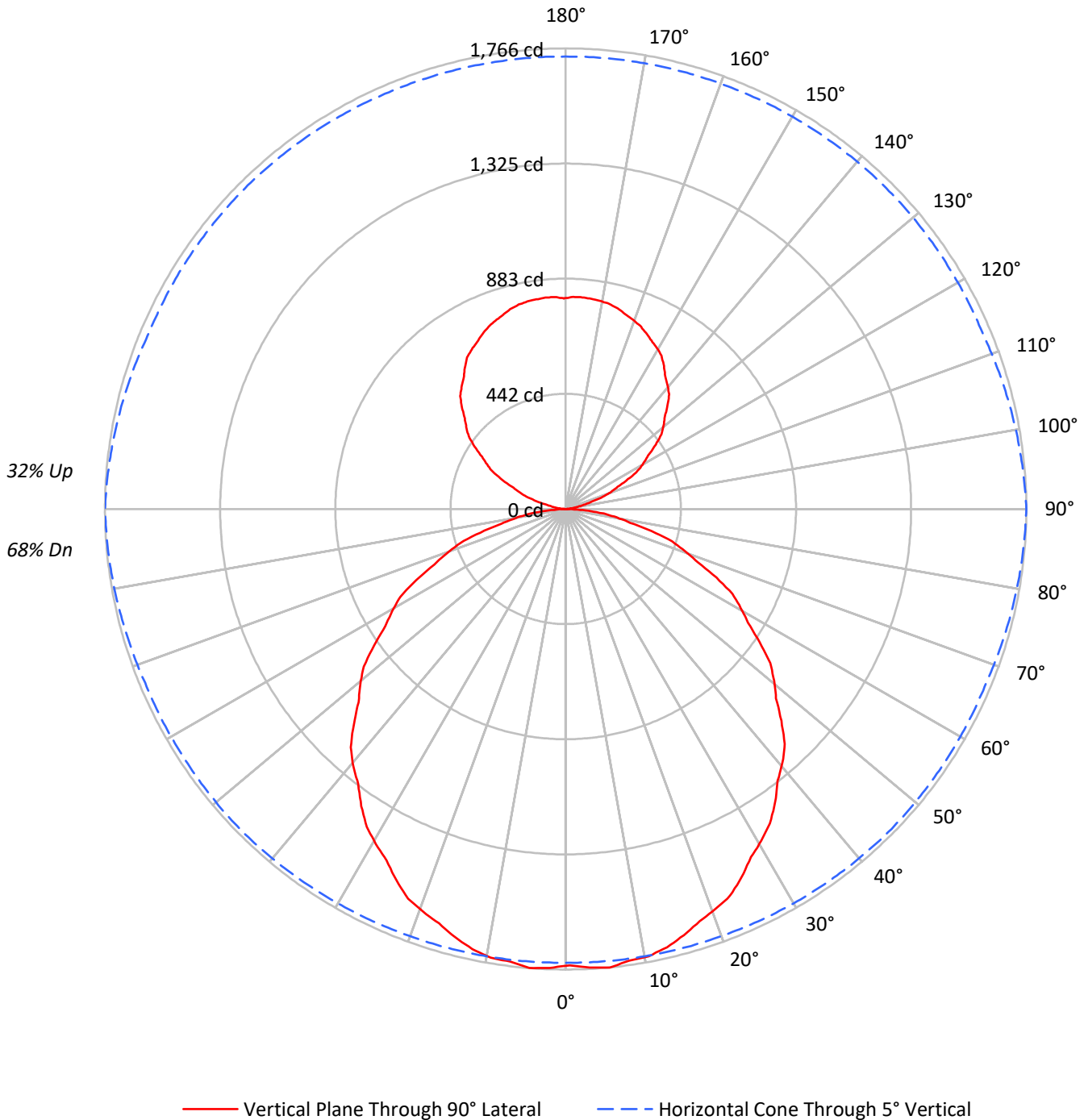
Lumens per Lamp: N/A
Luminaire Lumens: 7137.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77
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°	28255	28255	28255
5°	28201	28622	28120
10°	28248	28593	27888
15°	28216	28349	27898
20°	27938	28144	27302
25°	27506	27880	26936
30°	27332	27537	26586
35°	26905	27260	25939
40°	26536	26978	25630
45°	26008	26464	24980
50°	25420	25998	24465
55°	24771	25363	23589
60°	23993	24897	22830
65°	22923	24260	21509
70°	21668	22943	20205
75°	19838	21210	18216
80°	17108	18410	15435
85°	12227	14264	10745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	2.3
10°-20°	473.0	6.6
20°-30°	711.7	10.0
30°-40°	850.1	11.9
40°-50°	873.5	12.2
50°-60°	785.2	11.0
60°-70°	596.9	8.4
70°-80°	340.1	4.8
80°-90°	88.5	1.2
90°-100°	21.2	0.3
100°-110°	91.9	1.3
110°-120°	262.0	3.7
120°-130°	398.4	5.6
130°-140°	430.9	6.0
140°-150°	411.7	5.8
150°-160°	338.6	4.7
160°-170°	221.2	3.1
170°-180°	76.5	1.1
0°-30°	1350.3	18.9
0°-40°	2200.4	30.8
0°-60°	3859.1	54.1
0°-90°	4884.7	68.4
90°-120°	375.1	5.3
90°-150°	1616.0	22.6
90°-180°	2252.0	31.6
0°-180°	7137.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1750	1750	1750	1750	1750	
5°	1740	1751	1766	1739	1735	166
15°	1688	1682	1696	1677	1669	475
25°	1544	1570	1565	1545	1512	714
35°	1365	1385	1383	1352	1316	853
45°	1139	1152	1159	1122	1094	876
55°	880	898	901	861	838	785
65°	600	614	635	593	563	593
75°	318	329	340	312	292	336
85°	66	79	77	69	58	81
90°	0	0	0	0	0	2
95°	3	5	14	34	32	4
105°	21	54	106	73	78	25
115°	193	514	265	126	142	266
125°	770	678	424	208	179	677
135°	852	772	558	346	274	657
145°	888	831	665	492	419	556
155°	898	859	742	616	559	415
165°	877	858	795	713	680	249
175°	826	828	814	785	763	80
180°	807	807	807	807	807	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0
2.5°	1747.6	1746.0	1753.2	1745.5	1760.4	1752.6	1747.6	1750.4	1734.8
5°	1740.0	1743.9	1751.0	1744.5	1766.0	1734.7	1739.0	1736.0	1735.0
7.5°	1734.2	1737.3	1735.4	1731.4	1748.8	1728.9	1727.0	1720.6	1718.6
10°	1723.0	1726.9	1721.0	1723.5	1744.0	1714.7	1715.0	1699.0	1701.0
12.5°	1702.2	1710.8	1709.0	1700.4	1724.8	1700.2	1705.4	1694.1	1689.8
15°	1688.0	1679.2	1682.0	1684.3	1696.0	1668.6	1677.0	1663.1	1669.0
17.5°	1658.0	1652.5	1654.4	1648.5	1662.0	1633.8	1638.4	1627.3	1623.4
20°	1626.0	1626.0	1628.0	1625.3	1638.0	1610.6	1612.0	1592.9	1589.0
22.5°	1602.0	1598.1	1608.8	1600.5	1611.6	1585.0	1584.8	1561.2	1569.8
25°	1544.0	1548.9	1570.0	1551.3	1565.0	1531.8	1545.0	1518.8	1512.0
27.5°	1499.6	1501.2	1512.8	1502.6	1512.2	1486.6	1498.4	1465.4	1455.6
30°	1466.0	1462.1	1484.0	1468.2	1477.0	1458.4	1460.0	1424.0	1426.0
32.5°	1419.6	1420.4	1444.8	1433.7	1437.8	1413.0	1417.6	1391.8	1381.2
35°	1365.0	1365.0	1385.0	1373.2	1383.0	1352.7	1352.0	1324.8	1316.0
37.5°	1301.4	1295.1	1319.4	1313.2	1320.8	1292.6	1282.8	1257.1	1252.0
40°	1259.0	1255.1	1273.0	1269.2	1280.0	1252.6	1238.0	1214.0	1216.0
42.5°	1204.6	1208.5	1223.4	1225.1	1231.2	1201.5	1192.4	1165.2	1167.2
45°	1139.0	1137.0	1152.0	1151.2	1159.0	1133.6	1122.0	1090.1	1094.0
47.5°	1057.6	1060.3	1076.4	1074.6	1085.4	1062.7	1044.2	1022.9	1018.0
50°	1012.0	1014.0	1026.0	1028.2	1035.0	1011.5	997.0	975.0	974.0
52.5°	956.8	954.8	972.4	976.9	982.2	965.0	946.6	921.3	918.0
55°	880.0	881.0	898.0	904.9	901.0	889.3	861.0	836.0	838.0
57.5°	795.8	803.0	811.0	823.0	823.8	804.8	786.4	762.1	758.2
60°	743.0	744.0	759.0	771.0	771.0	750.5	728.0	707.0	707.0
62.5°	683.0	687.9	700.6	711.9	717.4	700.8	672.8	651.0	649.4
65°	600.0	601.0	614.0	629.1	635.0	612.5	593.0	567.9	563.0
67.5°	514.2	518.3	528.8	540.8	547.6	523.4	502.8	483.2	484.8
70°	459.0	460.0	468.0	483.1	486.0	466.4	446.0	428.0	428.0
72.5°	399.0	405.5	412.0	425.4	427.6	410.4	394.0	376.7	372.8
75°	318.0	322.9	329.0	337.1	340.0	325.3	312.0	296.9	292.0
77.5°	237.6	242.3	252.6	253.8	253.2	243.0	232.6	221.3	216.4
80°	184.0	187.9	199.0	200.9	198.0	190.2	179.0	170.9	166.0
82.5°	133.6	140.6	148.6	150.5	146.8	142.9	133.4	123.7	119.6
85°	66.0	69.9	79.0	82.9	77.0	75.0	69.0	60.9	58.0
87.5°	12.8	15.9	24.0	29.4	22.4	26.3	20.0	14.4	12.8
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	2.2	3.3	11.9	13.2	11.5	11.5
95°	3.4	3.4	4.8	15.1	14.4	24.4	34.3	32.2	32.2
97.5°	7.0	7.7	11.0	44.6	33.6	32.6	46.3	51.5	52.5
100°	10.3	10.9	16.4	72.8	50.0	42.7	50.7	60.3	62.4
102.5°	14.1	15.3	26.3	114.5	70.3	50.1	57.8	66.4	68.9
105°	21.2	23.3	54.1	192.0	106.2	65.3	72.6	76.1	78.1
107.5°	31.5	39.7	145.8	269.7	150.7	86.3	94.0	93.5	95.2
110°	42.5	59.2	252.2	312.3	183.6	102.6	102.8	108.2	106.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	70.4	117.7	376.0	353.2	216.5	122.1	111.0	123.1	123.8
115°	193.2	331.9	513.9	410.6	265.2	156.6	126.1	137.8	142.5
117.5°	479.1	577.5	584.5	461.5	313.7	195.2	143.3	148.6	154.7
120°	649.6	669.7	617.4	492.8	346.0	222.8	157.6	155.7	162.4
122.5°	716.5	709.2	644.2	521.9	377.8	251.9	175.1	164.4	169.0
125°	770.2	751.4	677.7	562.2	424.1	295.5	208.3	178.8	178.8
127.5°	802.3	780.4	708.4	597.9	465.9	339.6	248.2	202.3	196.0
130°	820.9	797.4	727.0	622.7	493.4	368.1	276.1	222.5	212.4
132.5°	835.1	813.8	744.6	642.0	520.2	396.0	304.1	247.5	231.1
135°	852.4	834.3	771.6	671.7	557.8	437.8	346.0	290.8	274.1
137.5°	863.5	849.4	795.8	696.0	592.6	479.3	388.4	332.9	317.8
140°	869.5	858.2	807.9	710.4	614.0	506.1	418.0	361.5	347.4
142.5°	875.6	866.3	816.6	726.4	634.8	532.8	447.0	390.5	375.4
145°	888.0	877.3	831.2	745.7	664.7	570.2	492.0	432.8	419.4
147.5°	896.8	883.9	843.1	766.5	692.9	604.1	533.2	476.1	462.8
150°	899.0	885.6	849.7	777.6	709.9	624.8	558.5	504.0	491.3
152.5°	897.4	887.2	854.6	787.0	724.1	644.9	581.5	530.9	519.3
155°	898.3	888.9	858.6	799.7	742.1	673.1	616.0	571.2	559.1
157.5°	894.2	888.0	861.3	809.5	758.7	698.2	647.7	610.0	597.8
160°	894.2	884.8	861.3	815.1	770.2	714.6	667.4	633.6	623.5
162.5°	888.2	879.9	860.8	819.1	781.1	729.8	686.0	654.5	647.1
165°	877.1	870.4	857.9	824.3	794.9	750.6	712.6	684.4	679.7
167.5°	868.4	859.2	852.4	824.1	804.2	765.6	735.1	711.7	709.1
170°	858.6	852.5	846.9	822.6	808.6	776.4	751.0	727.6	725.0
172.5°	846.0	842.6	839.8	821.6	811.3	785.6	764.7	743.5	738.7
175°	826.4	829.1	828.4	819.4	814.0	797.3	784.6	769.4	763.3
177.5°	814.3	813.2	816.0	814.3	813.8	803.6	800.1	789.7	792.9
180°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2

(END OF REPORT)