

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: P522322

Luminaire Tested: **SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522322
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

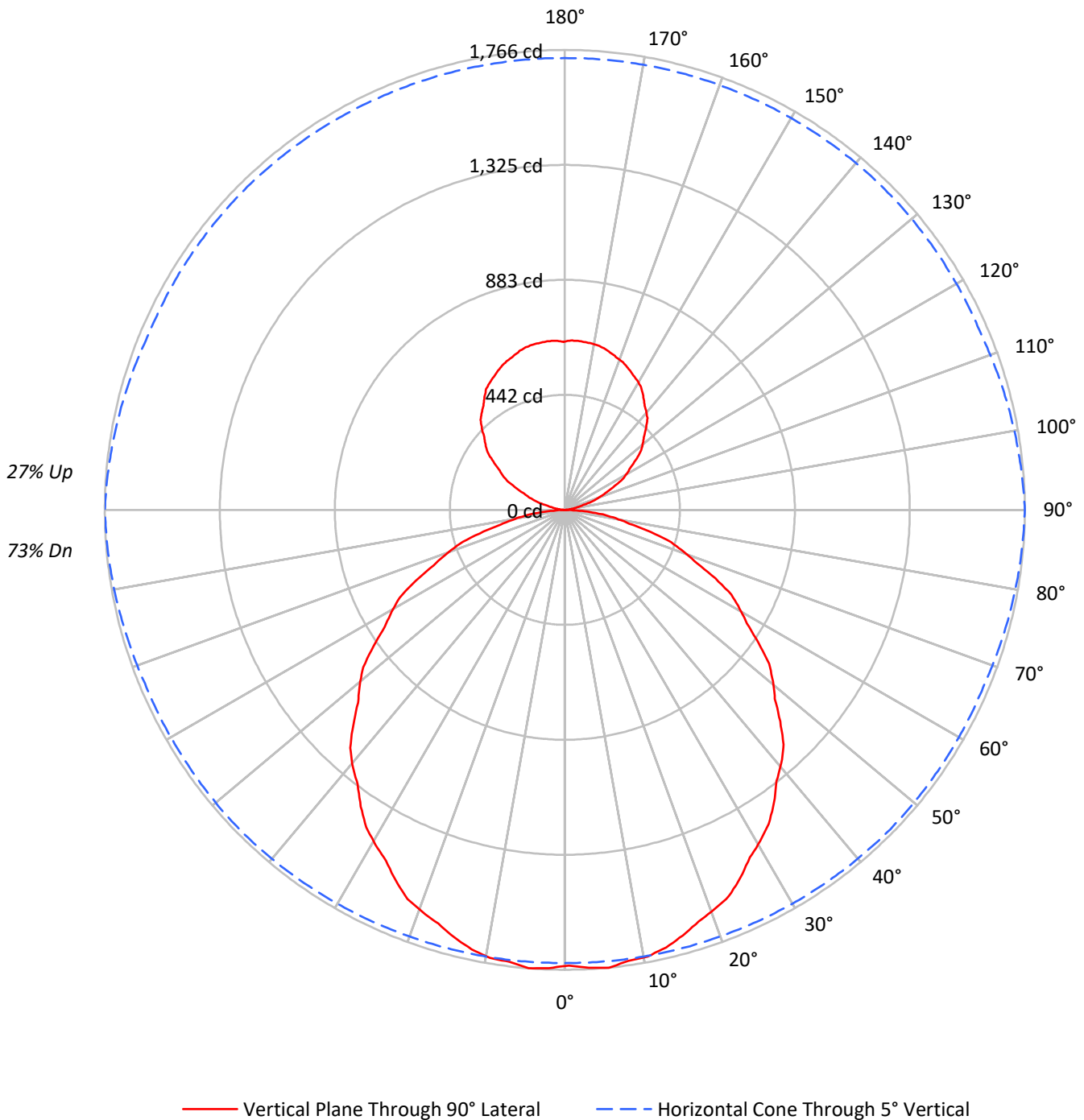
Lumens per Lamp: N/A
Luminaire Lumens: 6685.4 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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°	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	2.5
10°-20°	473.0	7.1
20°-30°	711.7	10.6
30°-40°	850.1	12.7
40°-50°	873.5	13.1
50°-60°	785.2	11.7
60°-70°	596.9	8.9
70°-80°	340.1	5.1
80°-90°	88.5	1.3
90°-100°	17.0	0.3
100°-110°	73.4	1.1
110°-120°	209.5	3.1
120°-130°	318.5	4.8
130°-140°	344.5	5.2
140°-150°	329.1	4.9
150°-160°	270.7	4.0
160°-170°	176.9	2.6
170°-180°	61.2	0.9
0°-30°	1350.3	20.2
0°-40°	2200.4	32.9
0°-60°	3859.1	57.7
0°-90°	4884.7	73.1
90°-120°	299.9	4.5
90°-150°	1291.9	19.3
90°-180°	1801.0	26.9
0°-180°	6685.4	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	4	12	27	26	3
105°	17	43	85	58	62	20
115°	154	411	212	101	114	212
125°	616	542	339	166	143	541
135°	682	617	446	277	219	525
145°	710	664	531	393	335	445
155°	718	686	593	492	447	332
165°	701	686	636	570	543	199
175°	661	662	651	627	610	64
180°	645	645	645	645	645	



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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°	0.9	0.9	0.9	1.8	2.6	9.5	10.5	9.2	9.2
95°	2.7	2.7	3.8	12.0	11.5	19.5	27.4	25.7	25.7
97.5°	5.6	6.1	8.8	35.6	26.8	26.1	37.0	41.2	42.0
100°	8.2	8.8	13.1	58.2	40.0	34.1	40.5	48.2	49.9
102.5°	11.3	12.2	21.0	91.6	56.2	40.0	46.2	53.1	55.1
105°	17.0	18.6	43.3	153.5	84.9	52.2	58.1	60.8	62.5
107.5°	25.2	31.7	116.6	215.6	120.5	69.0	75.2	74.8	76.1
110°	34.0	47.4	201.6	249.7	146.8	82.0	82.2	86.5	84.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	56.3	94.1	300.6	282.4	173.1	97.6	88.7	98.4	98.9
115°	154.5	265.4	410.9	328.2	212.0	125.2	100.8	110.2	113.9
117.5°	383.0	461.7	467.3	369.0	250.8	156.1	114.6	118.8	123.7
120°	519.3	535.4	493.6	394.0	276.6	178.1	126.0	124.5	129.8
122.5°	572.8	567.0	515.1	417.2	302.1	201.4	140.0	131.4	135.1
125°	615.7	600.7	541.8	449.4	339.1	236.3	166.5	143.0	143.0
127.5°	641.4	623.9	566.3	478.0	372.5	271.5	198.4	161.7	156.7
130°	656.3	637.5	581.2	497.8	394.4	294.3	220.8	177.9	169.8
132.5°	667.7	650.6	595.3	513.3	415.9	316.6	243.1	197.9	184.7
135°	681.5	667.0	616.8	537.0	445.9	350.0	276.6	232.5	219.1
137.5°	690.4	679.1	636.2	556.5	473.7	383.2	310.5	266.2	254.1
140°	695.2	686.1	645.9	568.0	490.8	404.6	334.2	289.0	277.7
142.5°	700.0	692.6	652.9	580.8	507.5	426.0	357.4	312.2	300.1
145°	710.0	701.4	664.5	596.2	531.4	455.9	393.3	346.0	335.3
147.5°	717.0	706.7	674.0	612.8	553.9	482.9	426.3	380.6	370.0
150°	718.7	708.0	679.3	621.6	567.5	499.5	446.5	403.0	392.8
152.5°	717.4	709.3	683.2	629.2	578.9	515.6	464.9	424.5	415.1
155°	718.2	710.7	686.4	639.3	593.3	538.1	492.5	456.7	447.0
157.5°	714.9	710.0	688.6	647.1	606.5	558.2	517.8	487.7	477.9
160°	714.9	707.4	688.6	651.6	615.7	571.3	533.6	506.5	498.5
162.5°	710.1	703.4	688.2	654.8	624.5	583.5	548.5	523.2	517.4
165°	701.2	695.8	685.9	659.0	635.5	600.1	569.7	547.2	543.4
167.5°	694.3	686.9	681.5	658.9	642.9	612.1	587.7	569.0	566.9
170°	686.4	681.6	677.1	657.7	646.4	620.7	600.4	581.7	579.6
172.5°	676.3	673.7	671.4	656.9	648.6	628.0	611.4	594.4	590.5
175°	660.7	662.8	662.3	655.1	650.8	637.4	627.2	615.1	610.3
177.5°	651.0	650.2	652.3	651.0	650.6	642.4	639.6	631.4	633.9
180°	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3

(END OF REPORT)