

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: P522320

Luminaire Tested: **SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522320
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

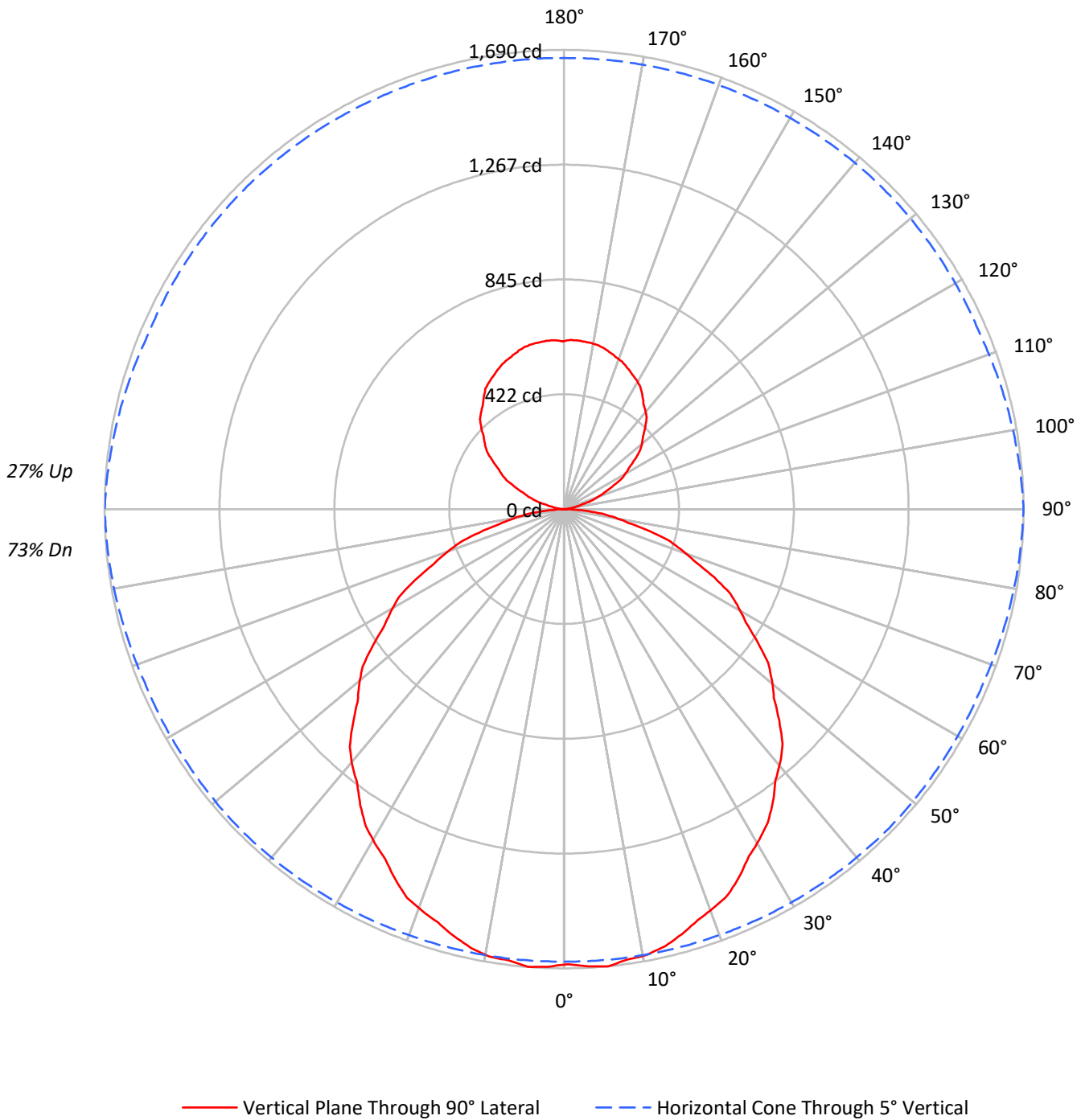
Lumens per Lamp: N/A
Luminaire Lumens: 6396.1 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.3
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	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°	27033	27033	27033
5°	26981	27384	26903
10°	27027	27355	26681
15°	26995	27122	26691
20°	26730	26926	26122
25°	26316	26674	25771
30°	26150	26345	25435
35°	25740	26081	24817
40°	25387	25811	24521
45°	24882	25320	23900
50°	24320	24872	23408
55°	23699	24265	22567
60°	22956	23818	21842
65°	21929	23209	20577
70°	20729	21951	19331
75°	18977	20293	17430
80°	16365	17610	14765
85°	11689	13653	10282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	2.5
10°-20°	452.5	7.1
20°-30°	680.9	10.6
30°-40°	813.3	12.7
40°-50°	835.7	13.1
50°-60°	751.3	11.7
60°-70°	571.1	8.9
70°-80°	325.4	5.1
80°-90°	84.7	1.3
90°-100°	16.2	0.3
100°-110°	70.3	1.1
110°-120°	200.4	3.1
120°-130°	304.7	4.8
130°-140°	329.6	5.2
140°-150°	314.9	4.9
150°-160°	259.0	4.0
160°-170°	169.2	2.6
170°-180°	58.5	0.9
0°-30°	1291.9	20.2
0°-40°	2105.2	32.9
0°-60°	3692.2	57.7
0°-90°	4673.4	73.1
90°-120°	286.9	4.5
90°-150°	1236.0	19.3
90°-180°	1723.0	26.9
0°-180°	6396.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1674	1674	1674	1674	1674	
5°	1665	1675	1690	1664	1660	158
15°	1615	1609	1623	1604	1597	455
25°	1477	1502	1497	1478	1447	683
35°	1306	1325	1323	1294	1259	816
45°	1090	1102	1109	1074	1047	838
55°	842	859	862	824	802	751
65°	574	587	608	567	539	568
75°	304	315	325	298	279	322
85°	63	76	74	66	56	77
90°	0	0	0	0	0	2
95°	3	4	11	26	25	3
105°	16	41	81	56	60	19
115°	148	393	203	96	109	203
125°	589	518	324	159	137	518
135°	652	590	427	265	210	503
145°	679	636	508	376	321	425
155°	687	657	568	471	428	317
165°	671	656	608	545	520	191
175°	632	634	623	600	584	61
180°	617	617	617	617	617	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3
2.5°	1672.0	1670.5	1677.4	1670.0	1684.2	1676.8	1672.0	1674.7	1659.7
5°	1664.7	1668.5	1675.2	1669.0	1689.6	1659.7	1663.8	1660.9	1659.9
7.5°	1659.2	1662.2	1660.3	1656.5	1673.1	1654.1	1652.3	1646.1	1644.2
10°	1648.5	1652.2	1646.5	1648.9	1668.5	1640.5	1640.8	1625.5	1627.4
12.5°	1628.6	1636.8	1635.1	1626.8	1650.2	1626.6	1631.6	1620.8	1616.7
15°	1615.0	1606.6	1609.2	1611.4	1622.6	1596.4	1604.4	1591.2	1596.8
17.5°	1586.3	1581.0	1582.8	1577.2	1590.1	1563.2	1567.5	1556.9	1553.2
20°	1555.7	1555.7	1557.6	1555.0	1567.1	1540.9	1542.3	1524.0	1520.3
22.5°	1532.7	1529.0	1539.2	1531.2	1541.9	1516.4	1516.2	1493.7	1501.9
25°	1477.2	1481.9	1502.1	1484.2	1497.3	1465.5	1478.2	1453.1	1446.6
27.5°	1434.7	1436.2	1447.4	1437.6	1446.8	1422.3	1433.6	1402.0	1392.6
30°	1402.6	1398.8	1419.8	1404.7	1413.1	1395.3	1396.8	1362.4	1364.3
32.5°	1358.2	1358.9	1382.3	1371.7	1375.6	1351.8	1356.3	1331.5	1321.4
35°	1305.9	1305.9	1325.1	1313.8	1323.2	1294.2	1293.5	1267.5	1259.1
37.5°	1245.1	1239.1	1262.3	1256.4	1263.7	1236.7	1227.3	1202.7	1197.8
40°	1204.5	1200.8	1217.9	1214.3	1224.6	1198.4	1184.4	1161.5	1163.4
42.5°	1152.5	1156.2	1170.5	1172.1	1177.9	1149.5	1140.8	1114.8	1116.7
45°	1089.7	1087.9	1102.2	1101.4	1108.9	1084.5	1073.5	1042.9	1046.7
47.5°	1011.8	1014.5	1029.8	1028.2	1038.4	1016.7	999.0	978.6	974.0
50°	968.2	970.1	981.6	983.7	990.2	967.8	953.9	932.8	931.9
52.5°	915.4	913.5	930.3	934.7	939.7	923.2	905.6	881.5	878.3
55°	841.9	842.9	859.2	865.8	862.0	850.8	823.8	799.9	801.7
57.5°	761.4	768.3	775.9	787.4	788.2	770.0	752.4	729.1	725.4
60°	710.9	711.8	726.2	737.6	737.6	718.0	696.5	676.4	676.4
62.5°	653.5	658.1	670.3	681.1	686.4	670.5	643.7	622.8	621.3
65°	574.0	575.0	587.4	601.9	607.5	586.0	567.3	543.3	538.6
67.5°	492.0	495.9	505.9	517.4	523.9	500.7	481.0	462.3	463.8
70°	439.1	440.1	447.8	462.2	465.0	446.3	426.7	409.5	409.5
72.5°	381.7	387.9	394.2	407.0	409.1	392.6	377.0	360.4	356.7
75°	304.2	308.9	314.8	322.5	325.3	311.3	298.5	284.0	279.4
77.5°	227.3	231.8	241.7	242.8	242.2	232.5	222.5	211.7	207.0
80°	176.0	179.8	190.4	192.2	189.4	182.0	171.3	163.5	158.8
82.5°	127.8	134.6	142.2	144.0	140.4	136.7	127.6	118.4	114.4
85°	63.1	66.9	75.6	79.3	73.7	71.8	66.0	58.3	55.5
87.5°	12.2	15.2	23.0	28.2	21.4	25.2	19.1	13.7	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	0.8	1.7	2.5	9.1	10.1	8.8	8.8
95°	2.6	2.6	3.7	11.5	11.0	18.7	26.2	24.6	24.6
97.5°	5.3	5.9	8.4	34.1	25.7	25.0	35.4	39.4	40.1
100°	7.9	8.4	12.6	55.7	38.3	32.6	38.8	46.2	47.7
102.5°	10.8	11.7	20.1	87.6	53.8	38.3	44.2	50.8	52.7
105°	16.2	17.8	41.4	146.8	81.2	50.0	55.6	58.2	59.7
107.5°	24.1	30.4	111.5	206.3	115.3	66.0	71.9	71.5	72.9
110°	32.5	45.3	192.9	238.9	140.5	78.5	78.6	82.8	81.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	53.9	90.1	287.6	270.2	165.6	93.4	84.9	94.1	94.7
115°	147.8	253.9	393.1	314.0	202.8	119.8	96.4	105.4	109.0
117.5°	366.5	441.7	447.1	353.0	239.9	149.3	109.6	113.6	118.3
120°	496.9	512.2	472.2	376.9	264.7	170.4	120.5	119.1	124.2
122.5°	548.0	542.5	492.8	399.2	289.0	192.7	134.0	125.8	129.2
125°	589.1	574.8	518.3	430.0	324.4	226.0	159.3	136.8	136.8
127.5°	613.6	596.9	541.8	457.4	356.4	259.7	189.8	154.7	149.9
130°	627.9	610.0	556.1	476.3	377.4	281.5	211.2	170.2	162.5
132.5°	638.8	622.5	569.5	491.1	397.9	302.9	232.6	189.3	176.7
135°	652.0	638.2	590.2	513.7	426.6	334.9	264.7	222.5	209.6
137.5°	660.5	649.7	608.7	532.4	453.3	366.6	297.1	254.7	243.1
140°	665.1	656.4	617.9	543.4	469.6	387.1	319.7	276.5	265.7
142.5°	669.7	662.6	624.6	555.6	485.5	407.5	341.9	298.7	287.1
145°	679.3	671.1	635.7	570.4	508.4	436.1	376.3	331.0	320.8
147.5°	686.0	676.1	644.9	586.3	530.0	462.0	407.9	364.1	354.0
150°	687.6	677.4	649.9	594.7	543.0	477.9	427.2	385.5	375.8
152.5°	686.4	678.6	653.7	602.0	553.9	493.3	444.8	406.1	397.2
155°	687.1	679.9	656.7	611.7	567.6	514.8	471.2	436.9	427.7
157.5°	684.0	679.3	658.8	619.1	580.3	534.1	495.4	466.6	457.2
160°	684.0	676.8	658.8	623.4	589.1	546.6	510.5	484.6	476.9
162.5°	679.4	673.0	658.4	626.5	597.5	558.2	524.7	500.6	495.0
165°	670.9	665.7	656.2	630.5	608.0	574.1	545.1	523.5	519.9
167.5°	664.3	657.2	652.0	630.4	615.1	585.6	562.3	544.4	542.4
170°	656.7	652.1	647.8	629.2	618.5	593.9	574.4	556.6	554.5
172.5°	647.1	644.5	642.4	628.4	620.6	600.9	584.9	568.7	565.0
175°	632.1	634.1	633.7	626.7	622.6	609.8	600.1	588.5	583.9
177.5°	622.9	622.0	624.1	622.8	622.4	614.6	612.0	604.0	606.5
180°	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4

(END OF REPORT)