

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: P522508

Luminaire Tested: **SQW-F-025U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522508
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

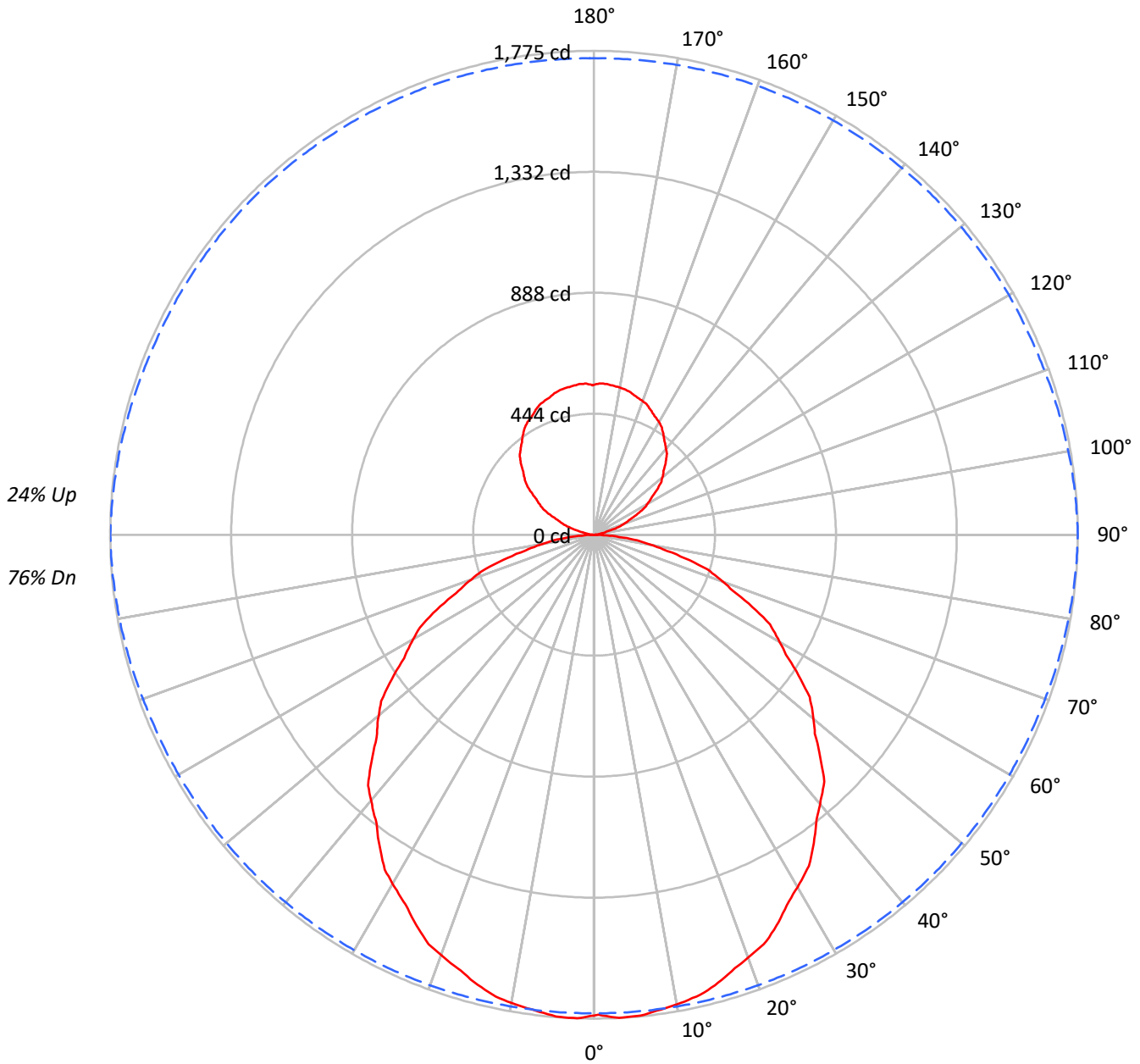
Lumens per Lamp: N/A
Luminaire Lumens: 6444.9 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 72.6
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



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



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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	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	103	99	95	91	98	94	91	87	86	83	80	78	76	74	71	69	68	64
2	94	86	80	74	89	82	76	71	75	70	66	68	65	61	62	59	57	53
3	86	76	68	62	81	72	65	59	66	60	55	60	56	52	55	51	48	45
4	78	67	58	52	74	64	56	50	59	52	47	54	48	44	49	45	41	38
5	72	60	51	45	68	57	49	43	52	46	41	48	43	38	44	39	36	33
6	66	54	45	39	63	51	43	38	47	41	36	43	38	33	40	35	31	29
7	61	48	40	34	58	47	39	33	43	36	31	39	34	30	36	31	28	26
8	57	44	36	30	54	42	35	30	39	33	28	36	31	26	33	29	25	23
9	53	40	32	27	51	39	32	26	36	30	25	33	28	24	31	26	22	20
10	50	37	30	24	47	36	29	24	33	27	23	31	25	22	29	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28438	28438	28438
5°	28514	28736	28259
10°	28473	28650	28071
15°	28408	28521	27898
20°	28172	28307	27548
25°	27847	28039	27059
30°	27496	27697	26599
35°	27173	27386	26032
40°	26698	27010	25541
45°	26213	26594	24868
50°	25854	26173	24302
55°	25216	25633	23477
60°	24493	25062	22559
65°	23580	24439	21406
70°	22372	23160	20148
75°	20811	21547	18178
80°	17703	18698	15146
85°	13449	14542	10356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	2.6
10°-20°	475.9	7.4
20°-30°	715.7	11.1
30°-40°	854.9	13.3
40°-50°	879.3	13.6
50°-60°	791.5	12.3
60°-70°	602.9	9.4
70°-80°	343.7	5.3
80°-90°	89.5	1.4
90°-100°	13.9	0.2
100°-110°	61.5	1.0
110°-120°	176.6	2.7
120°-130°	269.0	4.2
130°-140°	292.0	4.5
140°-150°	279.3	4.3
150°-160°	230.1	3.6
160°-170°	150.6	2.3
170°-180°	52.1	0.8
0°-30°	1358.1	21.1
0°-40°	2213.0	34.3
0°-60°	3883.8	60.3
0°-90°	4919.8	76.3
90°-120°	251.9	3.9
90°-150°	1092.3	16.9
90°-180°	1525.0	23.7
0°-180°	6444.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1761	1761	1761	1761	1761	
5°	1759	1758	1773	1748	1744	167
15°	1700	1700	1706	1678	1669	479
25°	1563	1577	1574	1544	1519	720
35°	1379	1394	1389	1356	1321	861
45°	1148	1163	1165	1122	1089	887
55°	896	907	911	864	834	801
65°	617	629	640	591	560	610
75°	334	340	345	307	291	351
85°	73	84	78	67	56	86
90°	0	0	0	0	0	2
95°	2	3	10	22	21	3
105°	14	37	71	49	52	16
115°	132	348	178	83	94	183
125°	526	458	284	141	120	462
135°	580	525	376	233	186	448
145°	607	565	449	332	283	380
155°	613	588	503	416	379	284
165°	600	585	539	484	461	170
175°	565	567	555	531	518	55
180°	549	549	549	549	549	



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CATALOG NUMBER: SQW-F-025U-125D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1755.8	1759.6	1761.3	1760.1	1775.4	1757.8	1758.1	1753.3	1747.9
5°	1759.3	1757.4	1758.3	1754.8	1773.0	1750.0	1747.5	1742.7	1743.6
7.5°	1747.7	1746.4	1747.1	1742.0	1759.3	1736.1	1734.2	1729.1	1728.7
10°	1736.7	1733.9	1737.7	1730.3	1747.5	1723.6	1720.1	1714.1	1712.2
12.5°	1724.2	1720.5	1725.2	1716.1	1732.6	1706.3	1705.9	1697.7	1696.5
15°	1699.5	1699.5	1699.5	1691.9	1706.3	1679.5	1677.9	1669.0	1669.0
17.5°	1664.7	1665.5	1670.6	1660.7	1672.6	1646.7	1643.3	1632.9	1631.6
20°	1639.6	1639.6	1649.4	1634.0	1647.5	1621.5	1619.0	1602.3	1603.3
22.5°	1609.8	1609.8	1621.9	1608.1	1620.0	1594.1	1590.7	1570.9	1571.9
25°	1563.1	1561.2	1576.8	1563.3	1573.9	1548.0	1544.4	1520.8	1518.9
27.5°	1510.9	1512.6	1527.7	1513.6	1523.2	1495.0	1496.0	1467.8	1464.4
30°	1474.8	1475.7	1492.4	1479.8	1485.6	1459.7	1459.1	1428.6	1426.7
32.5°	1437.1	1437.3	1454.7	1439.8	1448.7	1422.0	1418.2	1389.3	1386.6
35°	1378.6	1377.6	1394.3	1383.6	1389.4	1361.6	1356.0	1329.3	1320.7
37.5°	1312.3	1313.0	1328.8	1322.6	1326.2	1299.5	1288.7	1262.2	1258.9
40°	1266.7	1266.7	1282.4	1278.6	1281.5	1255.6	1243.2	1216.6	1211.8
42.5°	1219.6	1221.2	1235.3	1232.4	1239.1	1210.9	1195.3	1170.2	1163.9
45°	1148.0	1150.9	1162.7	1159.9	1164.7	1140.7	1122.5	1095.9	1089.1
47.5°	1080.3	1077.4	1090.7	1089.0	1090.7	1067.3	1049.1	1021.5	1016.1
50°	1029.3	1026.4	1038.1	1041.1	1042.0	1017.1	998.9	971.3	967.5
52.5°	976.7	973.8	986.3	990.8	991.0	967.6	946.3	920.3	916.5
55°	895.8	891.0	906.6	912.5	910.6	890.4	864.4	841.7	834.0
57.5°	814.2	813.6	827.0	832.2	831.1	811.1	785.4	762.2	754.4
60°	758.5	755.6	771.2	778.1	776.1	757.0	728.1	707.3	698.6
62.5°	702.7	702.9	716.3	722.4	724.3	701.3	674.7	650.8	644.5
65°	617.2	613.3	629.0	635.0	639.7	615.8	590.7	567.0	560.3
67.5°	531.2	528.3	539.1	546.0	550.3	528.8	504.3	484.7	481.8
70°	473.9	471.0	481.8	488.7	490.6	471.4	445.5	429.7	426.8
72.5°	417.4	414.5	422.9	429.9	434.1	413.4	389.0	373.9	367.2
75°	333.6	331.7	340.5	340.6	345.4	325.2	307.1	292.4	291.4
77.5°	250.0	251.4	257.7	258.1	259.2	244.3	230.0	213.3	212.3
80°	190.4	197.1	201.1	203.1	201.1	191.6	176.6	163.8	162.9
82.5°	140.9	146.1	154.1	152.8	149.3	142.0	130.3	118.3	117.4
85°	72.6	77.4	84.4	84.3	78.5	74.7	66.7	56.9	55.9
87.5°	17.3	20.3	27.5	29.7	24.3	25.1	17.3	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.4	0.4	0.8	1.2	2.0	7.6	8.6	7.8	7.4
95°	2.0	2.0	3.1	9.7	9.7	15.7	21.5	21.0	21.0
97.5°	4.6	5.1	7.2	29.6	22.1	21.5	30.7	33.8	34.1
100°	6.6	7.1	11.2	48.2	32.7	27.7	32.7	39.9	41.4
102.5°	9.1	10.0	17.8	76.1	46.2	33.2	38.5	43.6	45.1
105°	13.8	15.3	37.3	127.6	70.6	44.1	48.6	51.1	51.6
107.5°	20.8	26.4	102.2	179.4	100.1	58.3	61.0	62.7	63.3
110°	28.1	40.1	177.4	210.7	122.2	69.2	67.5	72.1	71.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	47.3	82.5	260.5	236.4	144.3	82.1	73.6	81.1	81.7
115°	132.4	227.4	348.2	272.9	177.9	104.4	83.3	90.6	93.6
117.5°	332.4	395.5	394.4	306.8	210.3	130.8	95.0	98.5	101.9
120°	446.9	456.4	417.8	329.6	231.1	149.6	104.8	103.4	106.4
122.5°	489.5	481.8	435.4	349.7	252.4	169.3	117.5	108.7	111.3
125°	526.2	511.2	458.2	378.3	283.8	198.3	140.6	120.2	119.7
127.5°	546.5	530.8	480.5	403.1	312.6	228.4	166.9	136.4	131.8
130°	556.3	541.8	496.0	418.4	331.9	248.9	186.1	150.7	143.7
132.5°	568.2	552.5	507.0	434.0	350.3	268.1	205.4	167.8	159.6
135°	579.9	565.4	525.1	454.3	376.3	296.3	233.2	196.1	185.6
137.5°	590.3	577.0	541.7	470.4	399.9	324.2	262.6	226.5	213.7
140°	597.2	582.7	548.7	482.7	414.2	341.7	282.3	246.2	236.2
142.5°	599.7	590.8	556.0	493.0	430.1	358.4	301.9	264.7	255.5
145°	607.0	601.0	565.0	505.4	449.0	383.5	331.9	293.3	283.3
147.5°	611.7	602.7	573.3	518.9	467.4	405.9	359.1	322.0	312.7
150°	612.1	605.1	579.9	527.1	479.6	422.1	375.8	340.9	332.4
152.5°	615.3	606.7	583.1	534.1	488.6	435.9	392.6	360.1	350.8
155°	613.1	607.1	588.0	543.1	502.6	453.6	416.2	387.4	379.4
157.5°	613.1	605.7	588.6	550.1	516.1	473.1	438.3	411.7	405.7
160°	609.0	606.0	589.1	555.1	523.1	484.1	453.0	428.8	420.8
162.5°	607.4	602.4	589.9	558.4	529.2	493.0	465.7	442.8	436.8
165°	600.3	595.8	585.0	559.9	538.9	508.9	484.2	463.7	460.7
167.5°	592.2	588.7	581.6	562.4	545.4	520.9	500.1	483.5	479.4
170°	586.5	581.0	578.3	563.7	548.7	528.2	510.3	495.4	490.9
172.5°	576.7	576.0	573.8	560.5	551.5	534.6	519.7	506.1	503.2
175°	565.0	565.0	566.6	558.3	555.3	541.3	530.8	522.5	518.0
177.5°	551.5	551.9	555.2	554.8	555.2	547.2	544.2	536.4	535.6
180°	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7

(END OF REPORT)