

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: P522592

Luminaire Tested: **SQW-F-100U-025D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522592
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-100U-025D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

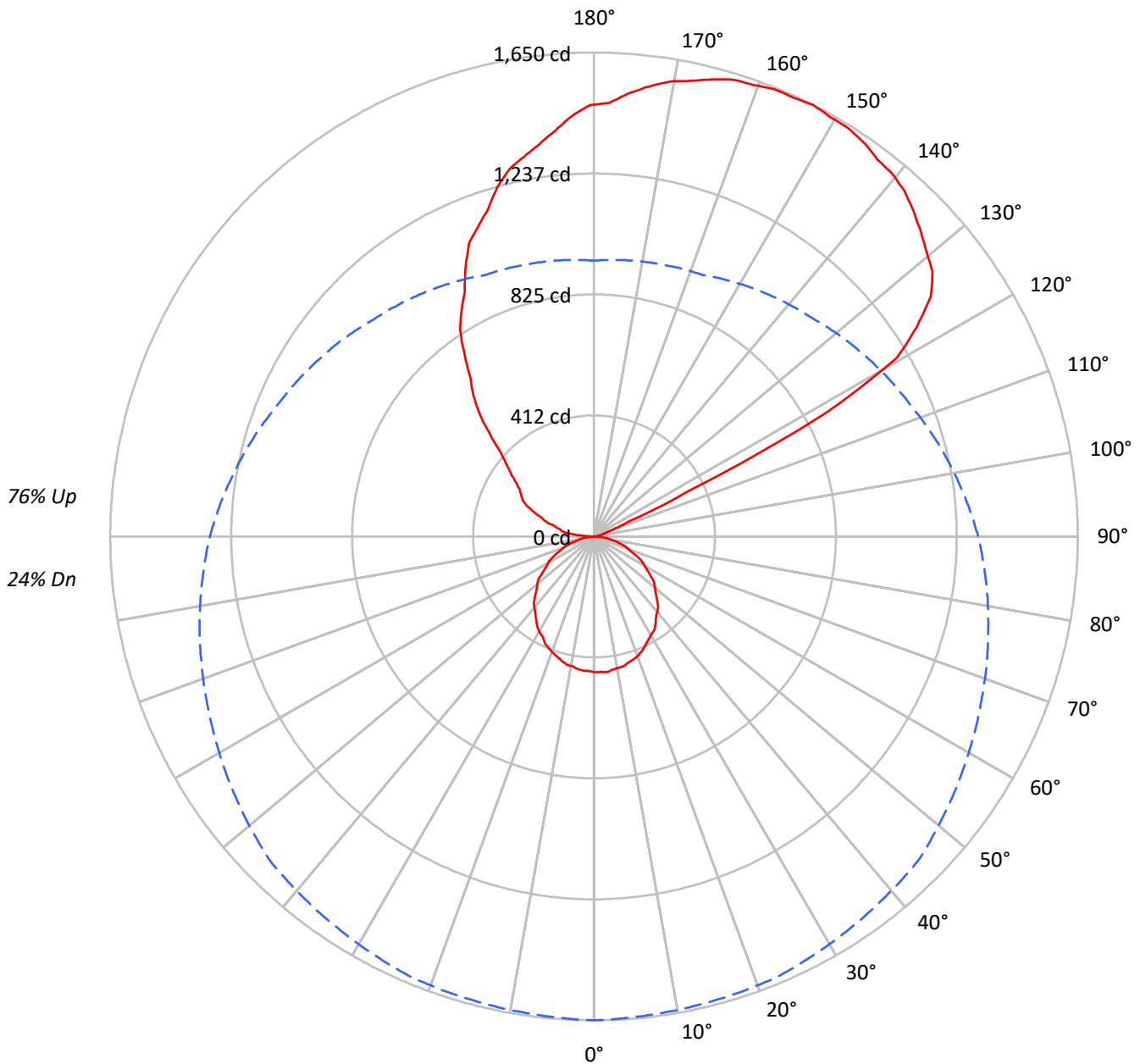
Lumens per Lamp: N/A
Luminaire Lumens: 5376.2 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 48.8
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 0° Lateral - - - Horizontal Cone Through 152.5° 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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	81	82	78	75	72	60	58	56	44	42	41	28	28	27	20
2	84	76	71	66	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	46	41	41	36	33	30	27	25	20	18	16	12
5	64	53	45	39	56	47	40	35	36	32	28	27	24	21	18	16	14	10
6	58	47	39	34	52	42	35	30	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	29	25	21	22	18	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	27	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7479	7479	7479
5°	7524	7556	7441
10°	7476	7492	7358
15°	7433	7485	7315
20°	7430	7448	7237
25°	7285	7375	7156
30°	7202	7278	7012
35°	7129	7171	6847
40°	7042	7042	6717
45°	6832	6973	6551
50°	6744	6872	6383
55°	6548	6722	6114
60°	6319	6520	5890
65°	6109	6304	5597
70°	5755	6047	5273
75°	5309	5496	4729
80°	4668	4863	3998
85°	3409	3798	2649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	0.8
10°-20°	125.1	2.3
20°-30°	188.0	3.5
30°-40°	224.3	4.2
40°-50°	230.5	4.3
50°-60°	206.8	3.8
60°-70°	156.6	2.9
70°-80°	89.4	1.7
80°-90°	23.4	0.4
90°-100°	37.1	0.7
100°-110°	164.8	3.1
110°-120°	473.5	8.8
120°-130°	721.2	13.4
130°-140°	782.9	14.6
140°-150°	748.7	13.9
150°-160°	616.8	11.5
160°-170°	403.6	7.5
170°-180°	139.7	2.6
0°-30°	356.9	6.6
0°-40°	581.2	10.8
0°-60°	1018.5	18.9
0°-90°	1287.9	24.0
90°-120°	675.4	12.6
90°-150°	2928.2	54.5
90°-180°	4088.0	76.0
0°-180°	5376.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	463	463	463	463	463	
5°	464	462	466	459	459	44
15°	445	448	448	444	438	126
25°	409	413	414	409	402	189
35°	362	364	364	356	347	226
45°	299	305	305	294	287	232
55°	233	238	239	226	217	208
65°	160	163	165	154	146	157
75°	85	88	88	81	76	90
85°	18	22	20	17	14	22
90°	0	0	0	0	0	1
95°	6	8	26	58	56	7
105°	37	100	189	130	138	43
115°	355	934	477	223	251	491
125°	1410	1228	761	377	321	1238
135°	1554	1408	1009	625	498	1200
145°	1627	1515	1204	890	759	1019
155°	1644	1576	1348	1116	1017	761
165°	1609	1568	1445	1298	1235	456
175°	1515	1519	1489	1423	1389	146
180°	1471	1471	1471	1471	1471	



TEST NUMBER: P522592

CATALOG NUMBER: SQW-F-100U-025D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	463.2	463.2	463.2	463.2	463.2	463.2	463.2	463.2	463.2
2.5°	462.4	463.2	464.8	462.4	465.6	462.4	463.2	461.5	459.1
5°	464.2	462.2	462.2	462.2	466.2	461.2	459.1	458.1	459.1
7.5°	458.5	458.9	458.7	458.4	462.8	454.9	458.1	455.0	455.4
10°	456.0	454.0	457.0	455.0	457.0	454.0	454.0	450.8	448.8
12.5°	453.5	452.3	453.7	450.2	456.2	448.4	447.4	446.8	447.2
15°	444.7	447.7	447.8	444.8	447.8	440.8	443.7	439.6	437.6
17.5°	439.8	436.8	438.2	435.8	439.2	433.4	433.0	428.8	429.4
20°	432.4	429.4	432.4	428.4	433.5	424.4	427.3	422.2	421.2
22.5°	422.6	422.0	425.9	422.6	423.6	418.6	418.3	412.3	411.3
25°	408.9	409.9	413.0	408.0	414.0	406.0	408.9	399.7	401.7
27.5°	397.0	397.2	400.7	398.2	399.4	393.2	393.5	385.7	384.3
30°	386.3	387.3	392.5	388.4	390.4	383.4	385.3	375.1	376.1
32.5°	378.9	376.7	381.0	377.0	380.6	373.6	373.8	366.0	364.6
35°	361.7	361.7	363.8	363.8	363.8	356.8	355.6	348.4	347.4
37.5°	343.9	343.1	350.0	344.8	347.2	341.4	339.2	332.2	331.0
40°	334.1	330.1	336.1	334.1	334.1	329.0	326.9	320.7	318.7
42.5°	320.1	319.3	323.8	322.6	325.0	316.8	314.6	307.6	306.4
45°	299.2	300.2	305.4	303.4	305.4	300.4	294.1	288.9	286.9
47.5°	281.6	280.0	284.9	284.7	286.7	279.1	276.3	268.5	268.1
50°	268.5	268.5	272.6	271.6	273.6	267.6	262.3	256.1	254.1
52.5°	255.4	253.8	258.6	258.4	258.8	253.6	248.4	243.0	241.8
55°	232.6	233.6	237.7	237.8	238.8	233.8	226.5	220.2	217.2
57.5°	211.3	210.7	214.6	215.8	215.8	210.8	204.3	199.2	198.0
60°	195.7	196.7	199.8	201.9	201.9	196.9	189.6	184.4	182.4
62.5°	181.0	181.2	185.1	186.3	187.9	182.1	175.6	170.5	168.5
65°	159.9	158.9	162.9	165.0	165.0	160.0	153.7	148.5	146.5
67.5°	135.9	137.3	140.6	141.8	142.8	136.8	130.8	127.5	126.5
70°	121.9	120.9	125.0	127.1	128.1	122.1	116.8	112.7	111.7
72.5°	107.2	107.0	110.3	112.3	112.5	106.5	102.1	98.7	96.1
75°	85.1	86.1	88.1	88.1	88.1	84.1	81.0	77.8	75.8
77.5°	63.3	64.3	66.2	68.0	67.0	63.4	60.3	57.1	55.3
80°	50.2	51.2	52.3	53.3	52.3	50.3	47.1	44.0	43.0
82.5°	37.1	37.3	40.0	40.1	39.1	37.1	34.8	31.8	31.6
85°	18.4	19.4	21.5	21.5	20.5	19.5	17.4	15.3	14.3
87.5°	4.1	4.9	6.6	8.2	6.6	6.6	4.9	3.3	2.5
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	2.2	3.3	5.5	20.5	23.0	20.8	19.7
95°	5.5	5.5	8.2	26.0	26.0	42.1	57.6	56.2	56.2
97.5°	12.3	13.7	19.2	79.3	59.2	57.6	82.2	90.5	91.3
100°	17.8	19.2	30.2	129.3	87.7	74.3	87.7	107.0	111.0
102.5°	24.4	26.8	47.7	204.1	123.9	89.1	103.1	116.9	120.9
105°	37.0	41.0	100.1	342.0	189.2	118.1	130.2	137.1	138.4
107.5°	55.7	70.7	273.9	481.0	268.4	156.3	163.4	168.1	169.7
110°	75.4	107.6	475.7	564.8	327.6	185.5	180.9	193.2	190.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	126.9	221.3	698.3	633.7	386.8	220.1	197.4	217.4	219.0
115°	355.0	609.7	933.5	731.7	477.0	280.0	223.4	242.8	250.8
117.5°	891.0	1060.1	1057.4	822.3	563.7	350.5	254.7	263.9	273.1
120°	1198.0	1223.5	1119.9	883.6	619.6	401.1	281.0	277.1	285.1
122.5°	1312.1	1291.5	1167.1	937.4	676.6	453.8	315.0	291.3	298.3
125°	1410.5	1370.3	1228.2	1014.1	760.8	531.6	377.0	322.1	320.8
127.5°	1465.1	1423.0	1288.0	1080.7	838.1	612.4	447.4	365.7	353.4
130°	1491.4	1452.5	1329.6	1121.5	889.6	667.1	499.0	403.9	385.2
132.5°	1523.2	1481.1	1359.2	1163.3	939.0	718.6	550.5	449.9	428.0
135°	1554.4	1515.6	1407.8	1218.0	1008.9	794.4	625.1	525.7	497.6
137.5°	1582.4	1546.8	1452.2	1260.9	1071.9	869.0	704.0	607.3	573.0
140°	1601.0	1562.2	1470.8	1293.9	1110.3	916.0	756.7	660.1	633.3
142.5°	1607.6	1583.8	1490.6	1321.7	1153.1	960.9	809.3	709.5	684.8
145°	1627.1	1611.0	1514.7	1355.0	1203.5	1027.9	889.6	786.2	759.4
147.5°	1639.7	1615.6	1536.9	1390.9	1252.9	1088.0	962.5	863.3	838.4
150°	1640.8	1622.0	1554.4	1413.1	1285.8	1131.6	1007.5	913.8	891.0
152.5°	1649.6	1626.5	1563.2	1431.9	1309.9	1168.6	1052.5	965.3	940.3
155°	1643.5	1627.5	1576.4	1456.0	1347.5	1216.1	1115.8	1038.5	1017.1
157.5°	1643.5	1623.7	1578.0	1474.8	1383.6	1268.4	1175.0	1103.6	1087.6
160°	1632.6	1624.5	1579.1	1488.1	1402.3	1297.7	1214.5	1149.6	1128.1
162.5°	1628.2	1614.8	1581.3	1497.0	1418.7	1321.7	1248.5	1187.0	1170.9
165°	1609.3	1597.2	1568.1	1501.1	1444.8	1364.4	1298.1	1243.1	1235.1
167.5°	1587.6	1578.2	1559.1	1507.6	1462.1	1396.4	1340.6	1296.2	1285.2
170°	1572.3	1557.5	1550.3	1511.0	1470.8	1415.9	1368.0	1328.0	1315.9
172.5°	1545.9	1544.1	1538.3	1502.6	1478.5	1433.2	1393.2	1356.6	1348.8
175°	1514.7	1514.7	1518.8	1496.7	1488.6	1451.1	1422.8	1400.6	1388.6
177.5°	1478.5	1479.6	1488.4	1487.3	1488.4	1466.9	1458.8	1437.9	1435.7
180°	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8

(END OF REPORT)