

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: P522597

Luminaire Tested: **SQW-F-100U-050D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522597
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-050D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 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

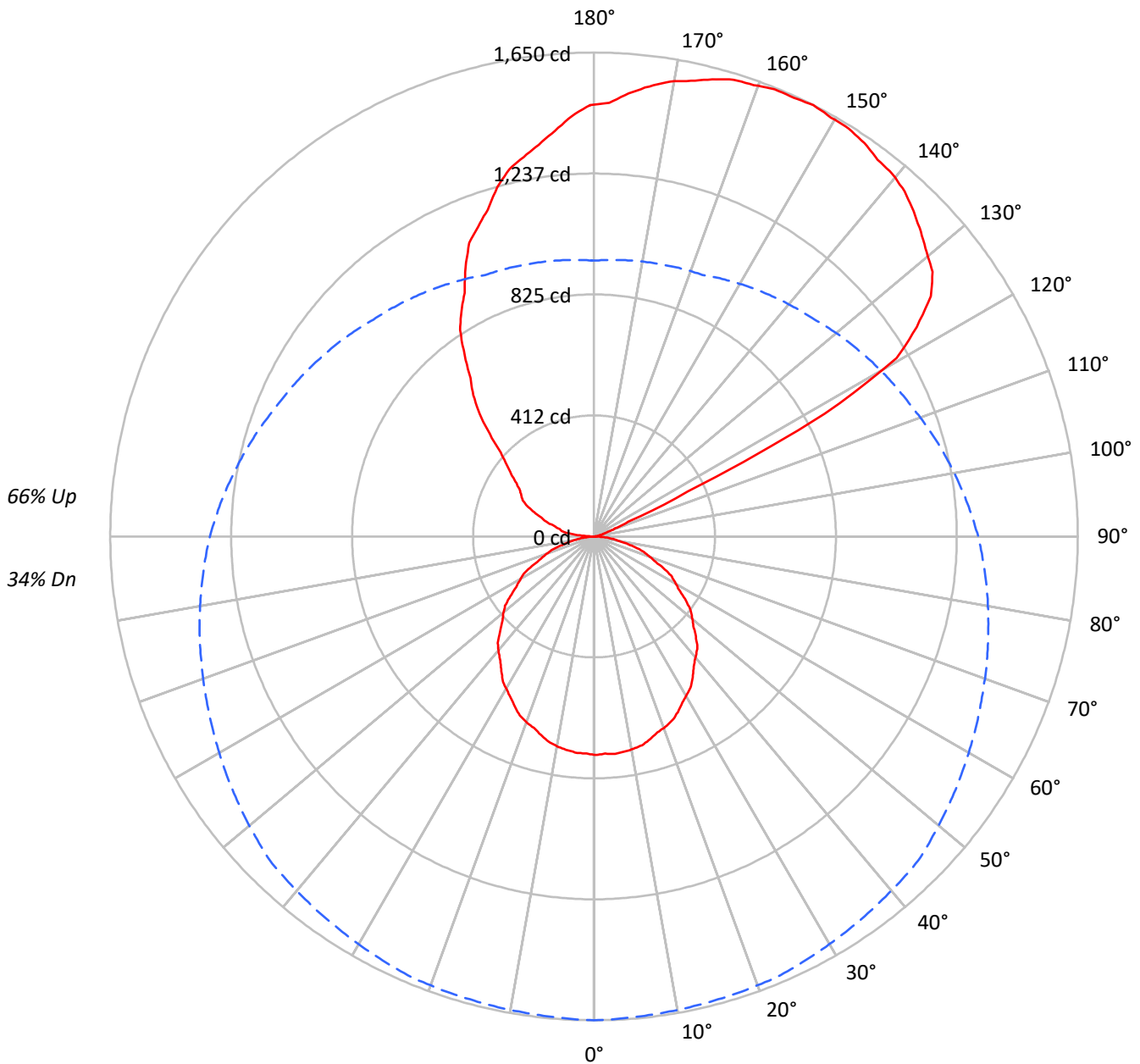
Lumens per Lamp: N/A
Luminaire Lumens: 6162.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.8
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	35	35	28
2	86	78	72	67	77	71	66	61	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	30	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	26	28	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	26	46	36	29	24	29	24	20	23	19	16	17	14	13	10
9	48	36	28	23	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12029	12029	12029
5°	12075	12123	11992
10°	12080	12131	11929
15°	11990	12110	11768
20°	11919	11972	11620
25°	11829	11829	11484
30°	11654	11749	11233
35°	11452	11594	10989
40°	11274	11405	10777
45°	11113	11232	10460
50°	10889	11042	10218
55°	10587	10787	9866
60°	10259	10556	9429
65°	9906	10296	8967
70°	9385	9673	8224
75°	8696	8759	7417
80°	7717	7810	6007
85°	6076	5891	4168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.1
10°-20°	201.3	3.3
20°-30°	302.9	4.9
30°-40°	361.5	5.9
40°-50°	371.2	6.0
50°-60°	333.6	5.4
60°-70°	252.9	4.1
70°-80°	142.7	2.3
80°-90°	37.0	0.6
90°-100°	37.1	0.6
100°-110°	164.8	2.7
110°-120°	473.5	7.7
120°-130°	721.2	11.7
130°-140°	782.9	12.7
140°-150°	748.7	12.1
150°-160°	616.8	10.0
160°-170°	403.6	6.5
170°-180°	139.7	2.3
0°-30°	574.8	9.3
0°-40°	936.3	15.2
0°-60°	1641.1	26.6
0°-90°	2073.7	33.7
90°-120°	675.4	11.0
90°-150°	2928.2	47.5
90°-180°	4088.0	66.3
0°-180°	6162.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	745	745	745	745	745	
5°	745	744	748	743	740	71
15°	717	720	724	708	704	202
25°	664	666	664	655	645	305
35°	581	590	588	573	558	364
45°	487	493	492	473	458	375
55°	376	383	383	365	350	336
65°	259	266	270	246	235	256
75°	139	141	140	127	119	148
85°	33	36	32	27	22	38
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: P522597

CATALOG NUMBER: SQW-F-100U-050D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	741.7	744.9	744.2	743.5	750.7	744.3	745.0	744.1	740.9
5°	745.0	743.0	743.9	743.0	748.0	742.0	742.9	739.9	739.9
7.5°	741.7	738.5	739.4	738.7	743.1	736.3	735.1	731.3	734.9
10°	736.8	732.8	733.7	733.8	739.9	729.8	728.6	725.6	727.6
12.5°	730.2	727.8	728.0	726.5	734.9	721.7	721.2	719.0	719.4
15°	717.3	720.3	720.4	713.5	724.5	708.4	708.1	708.0	704.0
17.5°	701.9	706.1	709.7	700.9	708.3	694.9	694.6	691.0	686.2
20°	693.7	694.7	699.9	691.8	696.8	685.8	685.5	676.3	676.3
22.5°	682.3	682.5	688.4	679.5	684.5	673.5	674.1	663.2	664.0
25°	664.0	663.0	666.1	660.0	664.0	654.0	654.8	643.5	644.6
27.5°	641.5	642.7	647.4	638.1	644.1	631.9	632.3	622.0	620.6
30°	625.1	627.1	634.3	624.2	630.2	617.2	615.9	605.5	602.5
32.5°	607.9	609.9	617.1	609.4	614.6	602.4	599.5	587.5	585.3
35°	581.0	583.0	590.2	586.2	588.2	576.2	572.8	560.5	557.5
37.5°	553.8	555.8	561.8	558.9	560.7	548.1	543.3	532.4	530.2
40°	534.9	536.9	542.1	540.1	541.1	530.0	523.6	514.3	511.3
42.5°	516.9	518.1	522.4	518.8	521.4	511.2	504.0	494.6	490.0
45°	486.7	486.7	492.9	488.9	491.9	481.8	473.4	463.1	458.1
47.5°	455.6	453.8	460.9	459.5	460.9	450.1	441.7	430.9	427.3
50°	433.5	432.5	439.6	440.6	439.6	429.6	421.2	408.8	406.8
52.5°	409.7	411.1	416.7	417.7	417.5	407.5	398.2	386.7	384.7
55°	376.1	378.1	383.2	384.2	383.2	374.2	364.8	352.5	350.5
57.5°	340.6	345.4	349.8	350.9	351.5	341.9	330.2	320.8	316.6
60°	317.7	321.7	326.9	327.9	326.9	318.9	306.4	297.1	292.0
62.5°	294.7	297.1	302.3	304.9	302.3	294.3	281.8	273.4	271.6
65°	259.3	261.3	266.4	268.5	269.5	258.5	245.9	238.7	234.7
67.5°	220.9	223.3	226.3	229.2	230.4	218.7	208.4	200.7	196.3
70°	198.8	198.8	200.8	202.9	204.9	194.9	185.5	176.2	174.2
72.5°	175.0	175.0	177.9	179.1	179.5	170.3	161.7	153.3	152.9
75°	139.4	139.4	141.4	142.4	140.4	134.4	127.1	119.9	118.9
77.5°	106.0	105.4	107.2	108.0	107.0	100.2	93.0	88.1	86.7
80°	83.0	84.0	85.1	85.0	84.0	78.0	71.7	67.6	64.6
82.5°	61.7	62.7	64.6	64.5	61.9	58.3	52.9	47.9	47.3
85°	32.8	32.8	35.9	34.8	31.8	29.8	26.6	22.5	22.5
87.5°	8.2	9.0	10.7	13.0	9.0	9.8	5.7	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)