

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: P522599

Luminaire Tested: **SQW-F-100U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522599
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-075D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

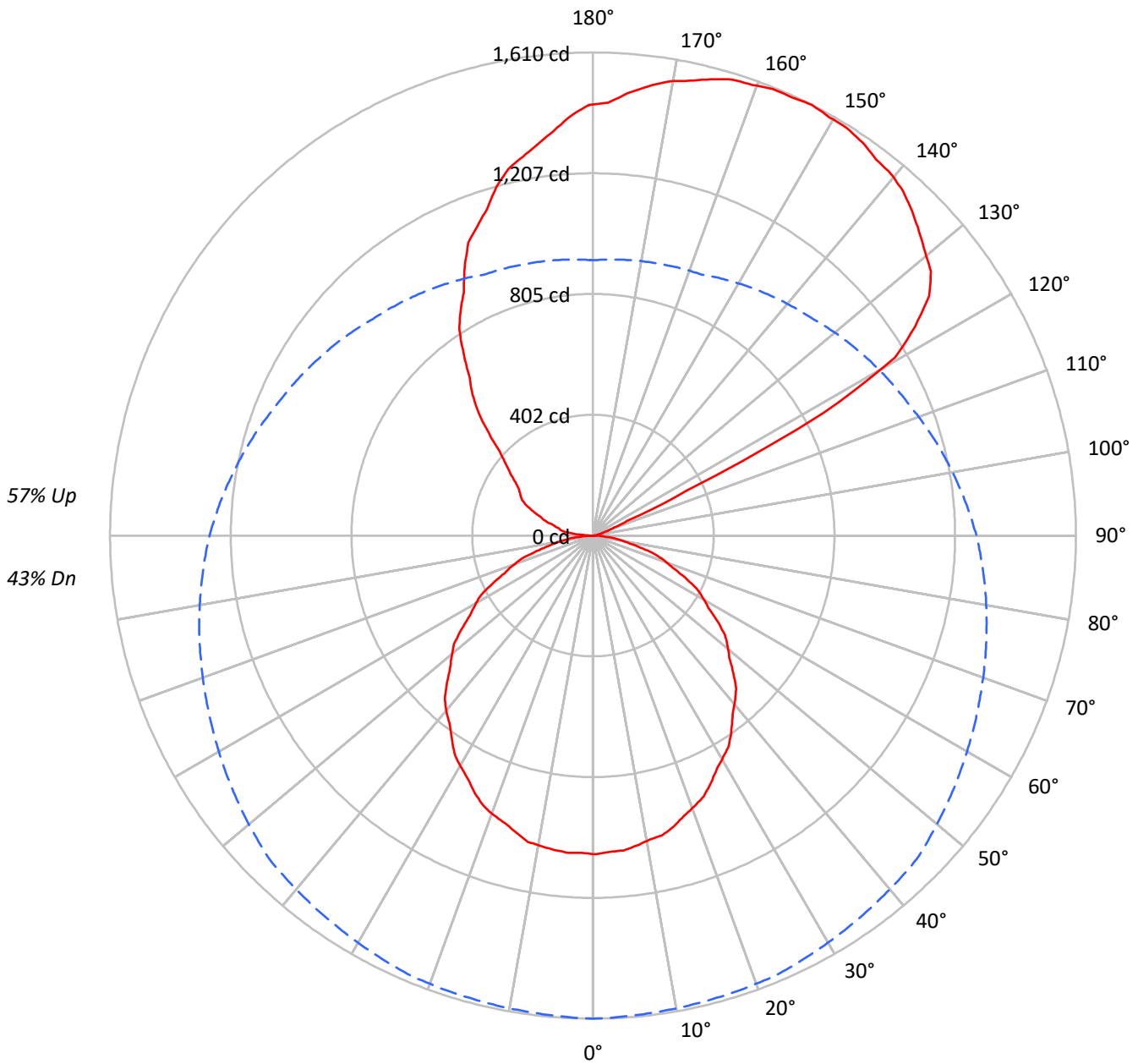
Lumens per Lamp: N/A
Luminaire Lumens: 6953.5 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.2
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	96	92	88	84	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	87	80	74	69	79	73	68	63	61	57	53	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	21
5	67	55	47	41	61	51	43	38	42	37	33	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	44	36	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	25	31	26	22	26	22	19	20	17	15	13
9	49	37	29	24	45	34	27	23	29	23	20	23	19	17	19	16	14	11
10	46	34	26	22	42	31	25	20	26	21	18	22	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17147	17147	17147
5°	17083	17326	17180
10°	16903	17247	17198
15°	16816	17217	17083
20°	16563	17079	16993
25°	16265	16889	16853
30°	15959	16686	16593
35°	15670	16517	16340
40°	15344	16356	16145
45°	15002	16121	15892
50°	14619	15774	15573
55°	14159	15482	15144
60°	13595	15113	14725
65°	12837	14632	14136
70°	11991	13973	13454
75°	10605	12726	12227
80°	8833	11158	10786
85°	5743	8707	8336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.4
10°-20°	286.7	4.1
20°-30°	431.4	6.2
30°-40°	515.3	7.4
40°-50°	530.2	7.6
50°-60°	476.7	6.9
60°-70°	363.2	5.2
70°-80°	206.0	3.0
80°-90°	54.0	0.8
90°-100°	36.3	0.5
100°-110°	160.8	2.3
110°-120°	462.1	6.6
120°-130°	703.8	10.1
130°-140°	764.0	11.0
140°-150°	730.6	10.5
150°-160°	601.9	8.7
160°-170°	393.9	5.7
170°-180°	136.3	2.0
0°-30°	818.5	11.8
0°-40°	1333.8	19.2
0°-60°	2340.7	33.7
0°-90°	2963.9	42.6
90°-120°	659.1	9.5
90°-150°	2857.6	41.1
90°-180°	3990.0	57.4
0°-180°	6953.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1062	1062	1062	1062	1062	
5°	1054	1055	1069	1062	1060	100
15°	1006	1011	1030	1025	1022	283
25°	913	933	948	954	946	420
35°	795	816	838	843	829	497
45°	657	676	706	703	696	506
55°	503	523	550	547	538	449
65°	336	357	383	380	370	333
75°	170	184	204	202	196	181
85°	31	40	47	50	45	40
90°	0	0	0	0	0	1
95°	5	8	25	56	55	7
105°	36	98	185	127	135	42
115°	346	911	466	218	245	479
125°	1376	1199	742	368	313	1208
135°	1517	1374	984	610	486	1171
145°	1588	1478	1174	868	741	995
155°	1604	1538	1315	1089	993	742
165°	1570	1530	1410	1267	1205	445
175°	1478	1482	1453	1388	1355	143
180°	1435	1435	1435	1435	1435	



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CATALOG NUMBER: SQW-F-100U-075D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0	1062.0
2.5°	1055.6	1058.7	1060.4	1056.7	1071.6	1059.1	1063.6	1060.3	1058.0
5°	1054.0	1053.0	1055.0	1051.4	1069.0	1055.3	1062.0	1057.1	1060.0
7.5°	1043.8	1041.8	1045.4	1045.9	1059.2	1049.2	1053.2	1051.9	1055.4
10°	1031.0	1033.0	1039.0	1040.3	1052.0	1041.2	1046.0	1047.0	1049.0
12.5°	1025.4	1021.9	1028.6	1032.3	1044.8	1031.7	1040.4	1039.9	1043.4
15°	1006.0	1005.0	1011.0	1014.4	1030.0	1018.3	1025.0	1024.9	1022.0
17.5°	981.6	981.6	989.6	991.2	1007.6	999.0	1005.6	1002.6	1001.8
20°	964.0	964.0	976.0	974.4	994.0	986.2	992.0	985.1	989.0
22.5°	944.0	944.8	959.2	956.8	975.6	970.9	977.6	967.5	972.2
25°	913.0	915.9	933.0	931.4	948.0	943.1	954.0	942.1	946.0
27.5°	880.0	884.1	901.2	901.0	917.4	913.9	926.4	912.6	913.2
30°	856.0	860.9	878.0	879.4	895.0	889.1	904.0	891.0	890.0
32.5°	832.8	836.9	854.0	857.0	872.6	869.1	880.8	867.8	866.0
35°	795.0	799.9	816.0	821.4	838.0	833.1	843.0	831.0	829.0
37.5°	756.0	759.1	776.2	780.9	800.8	796.7	803.0	791.4	791.6
40°	728.0	731.9	749.0	754.5	776.0	771.1	775.0	765.0	766.0
42.5°	700.0	703.9	720.2	728.1	748.0	743.1	746.2	737.8	738.0
45°	657.0	659.9	676.0	686.4	706.0	701.1	703.0	695.0	696.0
47.5°	612.4	614.6	629.2	643.8	660.0	657.8	658.2	648.3	651.2
50°	582.0	584.9	598.0	613.3	628.0	629.0	627.0	617.1	620.0
52.5°	550.8	553.0	568.4	581.4	596.8	598.6	595.0	585.8	588.0
55°	503.0	505.0	523.0	536.3	550.0	551.0	547.0	540.0	538.0
57.5°	453.8	456.7	473.6	488.1	501.6	499.8	497.8	489.6	488.0
60°	421.0	423.9	440.0	455.3	468.0	467.0	465.0	456.0	456.0
62.5°	387.4	391.1	408.0	421.7	434.4	434.2	431.4	424.8	423.2
65°	336.0	339.9	357.0	369.3	383.0	383.0	380.0	372.0	370.0
67.5°	286.8	290.7	304.8	317.5	331.2	330.0	327.2	322.1	319.4
70°	254.0	257.9	268.0	282.3	296.0	294.0	292.0	287.0	285.0
72.5°	218.8	223.5	233.6	246.3	259.2	258.8	256.8	254.1	249.8
75°	170.0	172.9	184.0	195.2	204.0	205.0	202.0	200.9	196.0
77.5°	123.8	127.5	136.6	146.3	152.8	155.9	154.2	151.7	148.0
80°	95.0	97.9	107.0	115.1	120.0	123.9	123.0	118.9	116.0
82.5°	67.8	70.7	78.2	85.5	89.6	93.5	92.6	90.1	85.6
85°	31.0	33.0	40.0	45.0	47.0	51.9	50.0	47.9	45.0
87.5°	4.8	5.6	10.4	15.2	14.4	19.1	16.8	13.5	10.4
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	2.1	3.3	5.4	20.0	22.5	20.3	19.3
95°	5.4	5.4	8.0	25.4	25.4	41.1	56.2	54.8	54.8
97.5°	12.0	13.3	18.7	77.4	57.8	56.2	80.3	88.3	89.1
100°	17.4	18.7	29.4	126.2	85.6	72.5	85.6	104.4	108.4
102.5°	23.8	26.2	46.6	199.1	120.9	86.9	100.6	114.1	118.0
105°	36.1	40.0	97.7	333.7	184.6	115.3	127.1	133.8	135.1
107.5°	54.3	69.0	267.3	469.4	261.9	152.6	159.5	164.0	165.6
110°	73.6	105.0	464.2	551.2	319.7	181.1	176.6	188.6	185.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	123.9	216.0	681.4	618.4	377.5	214.8	192.6	212.2	213.8
115°	346.5	595.0	911.0	714.0	465.5	273.2	218.0	236.9	244.8
117.5°	869.5	1034.6	1031.9	802.5	550.1	342.1	248.5	257.6	266.5
120°	1169.1	1194.0	1092.9	862.3	604.6	391.4	274.2	270.4	278.2
122.5°	1280.4	1260.3	1138.9	914.8	660.3	442.9	307.4	284.3	291.1
125°	1376.5	1337.2	1198.6	989.6	742.4	518.8	367.9	314.3	313.0
127.5°	1429.7	1388.7	1256.9	1054.6	817.9	597.6	436.6	356.9	344.9
130°	1455.4	1417.5	1297.6	1094.4	868.2	651.0	486.9	394.2	375.9
132.5°	1486.4	1445.4	1326.5	1135.3	916.3	701.3	537.2	439.1	417.6
135°	1516.9	1479.0	1373.8	1188.6	984.5	775.3	610.0	513.0	485.6
137.5°	1544.2	1509.4	1417.1	1230.5	1046.1	848.0	687.0	592.6	559.2
140°	1562.4	1524.5	1435.3	1262.7	1083.5	893.9	738.4	644.2	618.0
142.5°	1568.8	1545.6	1454.6	1289.8	1125.3	937.7	789.8	692.4	668.3
145°	1587.8	1572.1	1478.1	1322.3	1174.5	1003.1	868.2	767.2	741.1
147.5°	1600.1	1576.6	1499.8	1357.4	1222.6	1061.8	939.3	842.5	818.1
150°	1601.2	1582.9	1516.9	1379.0	1254.8	1104.3	983.2	891.7	869.5
152.5°	1609.8	1587.3	1525.5	1397.3	1278.3	1140.4	1027.1	942.0	917.7
155°	1603.9	1588.2	1538.3	1420.9	1314.9	1186.8	1088.9	1013.5	992.6
157.5°	1603.9	1584.5	1539.9	1439.2	1350.3	1237.8	1146.7	1077.0	1061.3
160°	1593.2	1585.3	1541.0	1452.2	1368.5	1266.4	1185.2	1121.8	1100.9
162.5°	1588.9	1575.8	1543.2	1460.9	1384.5	1289.8	1218.4	1158.3	1142.7
165°	1570.4	1558.7	1530.3	1464.9	1409.9	1331.4	1266.8	1213.1	1205.3
167.5°	1549.3	1540.2	1521.5	1471.2	1426.8	1362.7	1308.3	1264.9	1254.2
170°	1534.3	1519.9	1512.9	1474.6	1435.3	1381.7	1335.0	1296.0	1284.2
172.5°	1508.6	1506.8	1501.2	1466.4	1442.8	1398.6	1359.6	1323.9	1316.3
175°	1478.1	1478.1	1482.2	1460.6	1452.7	1416.1	1388.5	1366.9	1355.1
177.5°	1442.8	1443.9	1452.5	1451.4	1452.5	1431.5	1423.6	1403.2	1401.1
180°	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3	1435.3

(END OF REPORT)