

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: P522474

Luminaire Tested: **SQW-F-100U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522474
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-100U-100D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

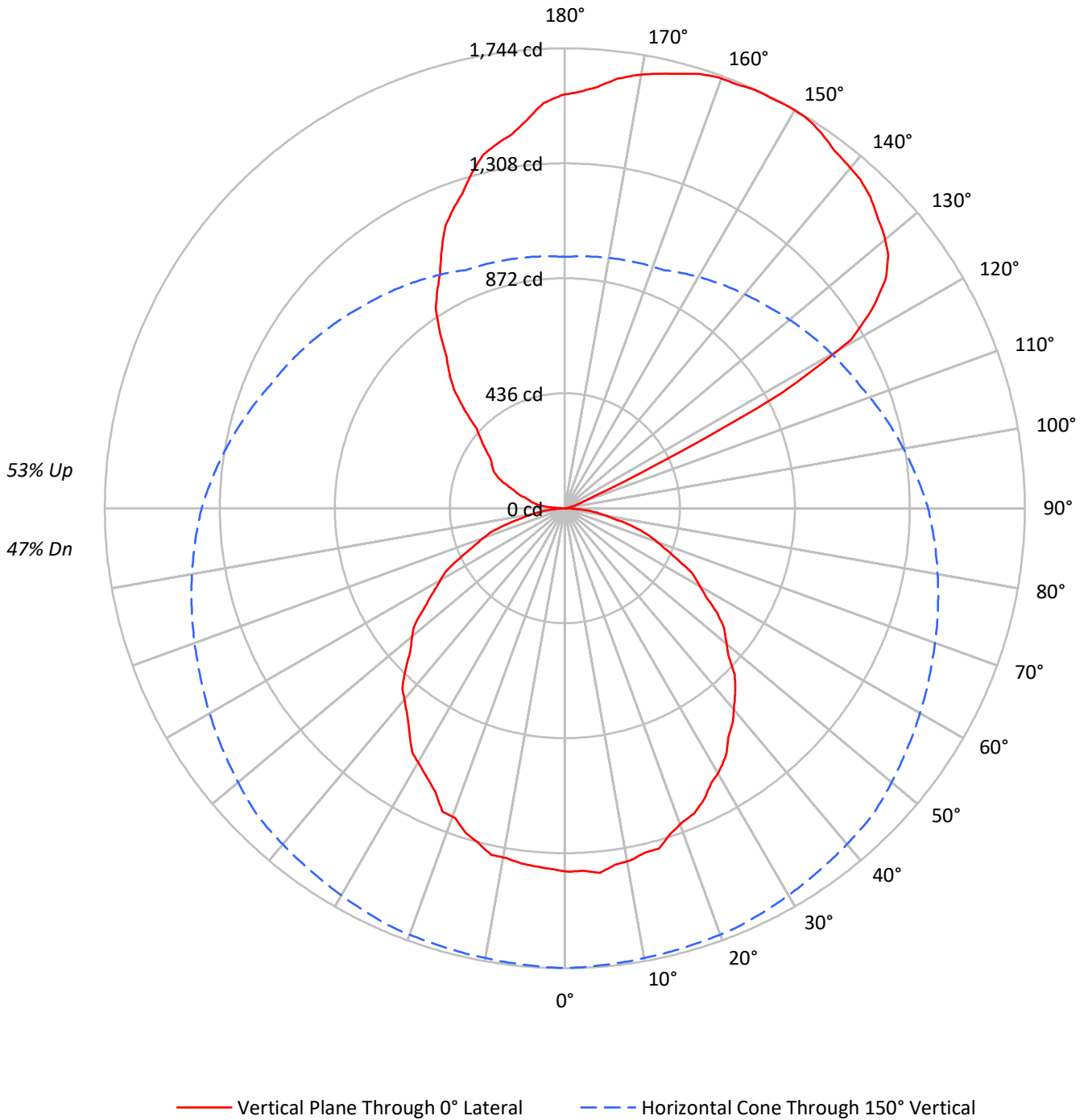
Lumens per Lamp: N/A
Luminaire Lumens: 8220.1 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.9
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	0
RCR																		
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	71	69	67	59	57	55	47	46	45	39
2	88	81	75	69	81	74	69	64	62	58	55	51	48	46	41	39	37	33
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	30	27	23
5	67	56	47	41	62	51	44	39	43	38	34	36	32	29	29	26	24	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22249	22249	22249
5°	22512	22431	22091
10°	22281	22363	22051
15°	22365	22332	21914
20°	21838	22182	21409
25°	21806	21859	21057
30°	21533	21813	20844
35°	21031	21465	20479
40°	20824	21182	20065
45°	20619	20801	19705
50°	19894	20522	19140
55°	19705	20127	18466
60°	18826	19536	17793
65°	17994	18911	16886
70°	17183	18033	15767
75°	15970	16594	14223
80°	13668	14505	11901
85°	10189	11300	8151



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	1.6
10°-20°	373.0	4.5
20°-30°	559.9	6.8
30°-40°	669.3	8.1
40°-50°	688.8	8.4
50°-60°	620.1	7.5
60°-70°	470.9	5.7
70°-80°	268.7	3.3
80°-90°	70.3	0.9
90°-100°	41.1	0.5
100°-110°	178.2	2.2
110°-120°	508.1	6.2
120°-130°	772.6	9.4
130°-140°	835.7	10.2
140°-150°	798.5	9.7
150°-160°	656.7	8.0
160°-170°	429.1	5.2
170°-180°	148.4	1.8
0°-30°	1063.4	12.9
0°-40°	1732.7	21.1
0°-60°	3041.6	37.0
0°-90°	3851.6	46.9
90°-120°	727.5	8.8
90°-150°	3134.2	38.1
90°-180°	4368.0	53.1
0°-180°	8220.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1378	1378	1378	1378	1378	
5°	1389	1378	1384	1360	1363	131
15°	1338	1330	1336	1317	1311	374
25°	1224	1231	1227	1214	1182	562
35°	1067	1093	1089	1065	1039	672
45°	903	910	911	891	863	690
55°	700	712	715	686	656	620
65°	471	484	495	461	442	468
75°	256	263	266	243	228	268
85°	55	63	61	55	44	66
90°	0	0	0	0	0	2
95°	7	9	28	66	62	8
105°	41	105	206	141	152	48
115°	375	997	514	244	276	516
125°	1494	1314	823	404	347	1313
135°	1653	1496	1082	671	532	1274
145°	1722	1612	1289	954	813	1079
155°	1742	1665	1439	1195	1084	805
165°	1701	1664	1542	1382	1318	483
175°	1603	1607	1579	1522	1480	155
180°	1566	1566	1566	1566	1566	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0
2.5°	1376.4	1387.4	1372.4	1376.7	1390.0	1373.6	1378.0	1370.0	1369.2
5°	1389.0	1372.4	1378.0	1370.3	1384.0	1371.3	1360.0	1374.7	1363.0
7.5°	1365.4	1354.6	1376.6	1365.6	1372.8	1364.2	1365.4	1357.2	1357.0
10°	1359.0	1352.2	1359.0	1359.1	1364.0	1352.3	1351.0	1342.1	1345.0
12.5°	1340.6	1350.2	1339.8	1352.8	1363.2	1342.9	1335.0	1338.1	1343.4
15°	1338.0	1335.1	1330.0	1326.2	1336.0	1312.5	1317.0	1308.1	1311.0
17.5°	1297.4	1302.9	1305.4	1302.2	1311.0	1289.7	1284.6	1284.6	1286.0
20°	1271.0	1282.7	1291.0	1282.2	1291.0	1274.4	1271.0	1258.7	1246.0
22.5°	1256.6	1254.3	1271.0	1253.5	1265.4	1244.9	1254.2	1232.8	1239.6
25°	1224.0	1214.2	1231.0	1221.1	1227.0	1210.4	1214.0	1187.9	1182.0
27.5°	1180.6	1180.6	1190.8	1186.7	1190.8	1177.5	1173.8	1149.9	1147.6
30°	1155.0	1147.2	1166.0	1157.3	1170.0	1138.7	1141.0	1121.9	1118.0
32.5°	1120.6	1123.7	1136.4	1125.3	1140.4	1110.7	1116.2	1086.9	1091.6
35°	1067.0	1072.9	1093.0	1078.2	1089.0	1071.4	1065.0	1045.8	1039.0
37.5°	1032.8	1023.8	1033.6	1034.5	1037.8	1018.4	1011.4	988.2	990.4
40°	988.0	986.0	1000.0	1004.0	1005.0	986.4	981.0	953.0	952.0
42.5°	947.2	949.2	960.8	965.6	965.8	947.2	946.6	916.3	920.0
45°	903.0	900.1	910.0	909.0	911.0	891.4	891.0	862.0	863.0
47.5°	833.6	839.9	846.6	848.6	856.2	839.6	827.8	804.7	801.2
50°	792.0	803.7	805.0	814.1	817.0	796.5	787.0	767.9	762.0
52.5°	755.2	761.5	766.6	772.5	777.0	758.0	743.8	725.6	724.4
55°	700.0	696.1	712.0	710.1	715.0	700.3	686.0	665.8	656.0
57.5°	628.6	636.2	639.8	647.3	650.6	634.6	622.0	600.6	599.8
60°	583.0	593.8	595.0	607.9	605.0	591.3	578.0	558.8	551.0
62.5°	541.4	544.3	552.6	561.6	562.6	547.3	537.2	516.5	511.0
65°	471.0	476.9	484.0	496.0	495.0	484.2	461.0	449.8	442.0
67.5°	407.2	409.2	418.8	424.5	428.4	413.5	400.2	384.5	381.2
70°	364.0	362.0	374.0	378.1	382.0	370.3	357.0	342.8	334.0
72.5°	316.8	318.8	327.6	334.1	336.4	324.7	310.6	299.7	294.0
75°	256.0	254.0	263.0	267.0	266.0	257.2	243.0	235.8	228.0
77.5°	188.6	192.5	197.8	201.4	200.0	194.1	183.0	172.1	168.8
80°	147.0	150.9	157.0	158.9	156.0	150.1	143.0	132.9	128.0
82.5°	108.6	110.9	117.0	120.5	116.0	112.5	106.2	98.5	92.8
85°	55.0	57.0	63.0	64.9	61.0	61.0	55.0	47.9	44.0
87.5°	12.8	13.6	18.4	23.9	19.2	20.8	16.0	11.9	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.1	2.1	2.1	4.3	6.4	23.0	25.5	22.3	22.3
95°	6.6	6.6	9.3	29.2	27.9	47.4	66.5	62.5	62.5
97.5°	13.6	14.9	21.3	86.4	65.1	63.3	89.8	100.0	101.8
100°	19.9	21.2	31.9	141.2	97.0	82.7	98.3	117.0	120.9
102.5°	27.4	29.7	51.0	222.1	136.4	97.1	112.2	128.8	133.7
105°	41.2	45.1	105.0	372.3	206.0	126.7	140.9	147.6	151.5
107.5°	61.1	77.0	282.8	523.2	292.4	167.4	182.3	181.4	184.7
110°	82.4	114.9	489.1	605.7	356.2	198.9	199.4	209.9	206.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	136.6	228.4	729.4	685.1	420.0	236.7	215.3	238.7	240.0
115°	374.8	643.8	996.8	796.3	514.3	303.8	244.5	267.3	276.4
117.5°	929.2	1120.0	1133.6	895.1	608.4	378.7	278.0	288.1	300.1
120°	1259.9	1298.9	1197.4	955.7	671.1	432.0	305.7	302.0	315.0
122.5°	1389.6	1375.6	1249.5	1012.2	732.8	488.5	339.7	318.9	327.7
125°	1493.8	1457.4	1314.4	1090.3	822.7	573.2	404.0	346.9	346.9
127.5°	1556.0	1513.6	1373.9	1159.7	903.7	658.6	481.4	392.3	380.1
130°	1592.1	1546.7	1410.1	1207.7	956.9	713.9	535.6	431.5	412.0
132.5°	1619.8	1578.5	1444.1	1245.2	1009.0	768.1	589.8	480.1	448.1
135°	1653.3	1618.2	1496.5	1302.7	1081.8	849.2	671.1	564.1	531.6
137.5°	1674.8	1647.5	1543.5	1350.0	1149.3	929.7	753.3	645.8	616.4
140°	1686.5	1664.4	1566.9	1377.9	1190.8	981.6	810.7	701.1	673.8
142.5°	1698.2	1680.3	1583.9	1409.0	1231.2	1033.4	867.0	757.4	728.0
145°	1722.4	1701.6	1612.1	1446.4	1289.1	1105.9	954.2	839.3	813.3
147.5°	1739.4	1714.4	1635.2	1486.6	1343.9	1171.6	1034.2	923.3	897.6
150°	1743.7	1717.7	1648.0	1508.1	1376.8	1211.8	1083.1	977.6	952.9
152.5°	1740.5	1720.7	1657.5	1526.4	1404.5	1250.9	1127.8	1029.7	1007.1
155°	1742.3	1724.1	1665.2	1551.1	1439.3	1305.5	1194.8	1107.9	1084.5
157.5°	1734.3	1722.4	1670.6	1570.0	1471.5	1354.3	1256.2	1183.1	1159.4
160°	1734.3	1716.2	1670.6	1580.9	1493.8	1385.9	1294.4	1228.9	1209.4
162.5°	1722.7	1706.5	1669.5	1588.6	1515.1	1415.5	1330.6	1269.4	1255.1
165°	1701.1	1688.1	1663.9	1598.8	1541.6	1455.9	1382.2	1327.5	1318.4
167.5°	1684.4	1666.4	1653.3	1598.4	1559.7	1484.9	1425.8	1380.5	1375.3
170°	1665.2	1653.5	1642.6	1595.5	1568.2	1505.8	1456.6	1411.3	1406.1
172.5°	1640.8	1634.3	1628.8	1593.6	1573.5	1523.6	1483.2	1442.0	1432.7
175°	1602.8	1608.0	1606.8	1589.3	1578.9	1546.4	1521.7	1492.2	1480.5
177.5°	1579.4	1577.3	1582.6	1579.4	1578.3	1558.6	1551.7	1531.7	1537.9
180°	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6	1565.6

(END OF REPORT)