

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: P522469

Luminaire Tested: **SQW-F-100U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522469
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-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

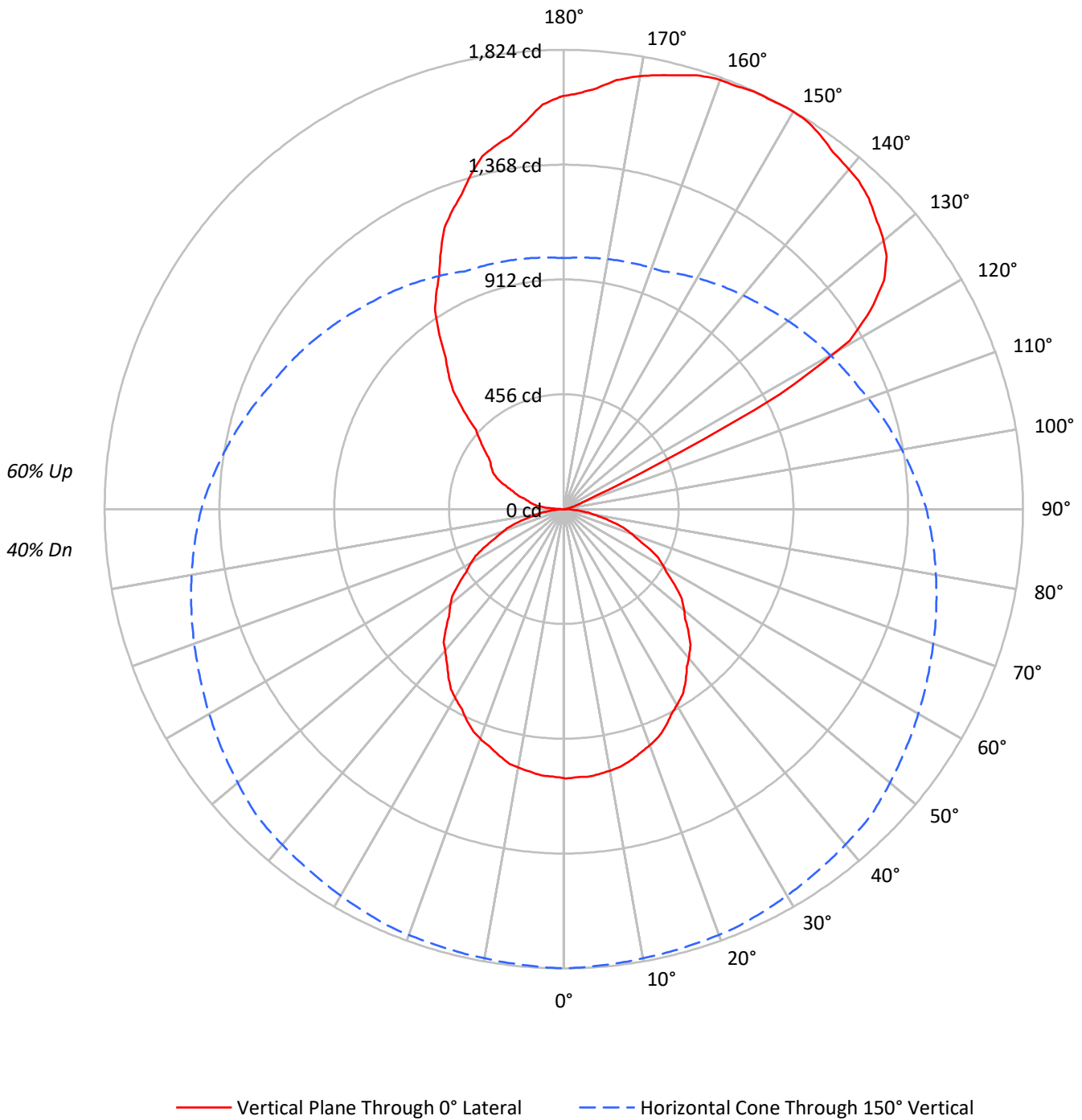
Lumens per Lamp: N/A
Luminaire Lumens: 7558.5 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 67
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	79	73	68	79	72	67	63	59	55	52	47	45	42	36	34	33	28
3	79	70	62	57	72	64	57	52	52	48	44	42	38	36	32	30	28	23
4	72	61	54	48	65	56	49	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	33	28	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17279	17279	17279
5°	17295	17447	17211
10°	17272	17392	17100
15°	17207	17331	16944
20°	17094	17220	16735
25°	16885	17072	16475
30°	16677	16871	16209
35°	16435	16642	15940
40°	16162	16404	15567
45°	15863	16173	15264
50°	15503	15872	14900
55°	15108	15550	14460
60°	14628	15235	13918
65°	13990	14747	13230
70°	13237	14077	12246
75°	12071	12788	11029
80°	10507	11381	9437
85°	7947	8911	6595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.3
10°-20°	289.3	3.8
20°-30°	435.1	5.8
30°-40°	519.7	6.9
40°-50°	534.3	7.1
50°-60°	480.9	6.4
60°-70°	365.9	4.8
70°-80°	207.4	2.7
80°-90°	54.5	0.7
90°-100°	43.0	0.6
100°-110°	186.4	2.5
110°-120°	531.6	7.0
120°-130°	808.3	10.7
130°-140°	874.2	11.6
140°-150°	835.3	11.1
150°-160°	687.0	9.1
160°-170°	448.9	5.9
170°-180°	155.3	2.1
0°-30°	825.6	10.9
0°-40°	1345.4	17.8
0°-60°	2360.5	31.2
0°-90°	2988.4	39.5
90°-120°	761.1	10.1
90°-150°	3279.0	43.4
90°-180°	4570.0	60.5
0°-180°	7558.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1070	1070	1070	1070	1070	
5°	1067	1067	1076	1064	1062	101
15°	1029	1032	1037	1023	1014	290
25°	948	957	958	942	925	437
35°	834	845	844	826	809	521
45°	695	704	708	687	668	535
55°	537	547	552	532	514	479
65°	366	377	386	363	346	363
75°	194	200	205	188	177	205
85°	43	48	48	43	36	51
90°	0	0	0	0	0	2
95°	7	10	29	70	65	9
105°	43	110	216	147	158	50
115°	392	1043	538	256	289	539
125°	1563	1375	861	423	363	1373
135°	1730	1566	1132	702	556	1333
145°	1802	1686	1349	998	851	1129
155°	1823	1742	1506	1250	1134	842
165°	1780	1741	1613	1446	1379	506
175°	1677	1681	1652	1592	1549	162
180°	1638	1638	1638	1638	1638	



TEST NUMBER: P522469

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2
2.5°	1066.0	1069.3	1069.4	1069.6	1077.8	1068.8	1068.6	1068.4	1063.5
5°	1067.1	1067.1	1067.1	1065.3	1076.5	1064.2	1064.0	1061.9	1061.9
7.5°	1061.0	1059.2	1060.4	1058.1	1068.3	1055.0	1055.8	1053.5	1053.1
10°	1053.5	1052.5	1054.5	1050.6	1060.8	1047.5	1048.3	1045.1	1043.0
12.5°	1045.1	1044.1	1047.0	1041.4	1052.4	1039.1	1039.1	1035.1	1034.7
15°	1029.4	1029.4	1031.5	1027.5	1036.8	1023.5	1023.2	1018.9	1013.7
17.5°	1010.8	1008.6	1013.5	1007.0	1016.5	1001.5	1002.6	996.4	990.7
20°	994.9	991.8	1000.1	992.0	1002.2	984.8	987.6	978.1	974.0
22.5°	976.5	974.2	983.4	976.1	985.5	968.9	970.0	958.0	954.7
25°	947.8	946.8	957.2	949.1	958.3	940.9	941.6	928.9	924.8
27.5°	916.2	915.4	926.9	918.7	926.7	910.5	911.0	897.1	892.0
30°	894.5	894.5	906.0	897.8	904.9	889.6	889.2	874.5	869.4
32.5°	871.0	870.2	881.7	875.2	881.5	865.3	864.1	850.2	845.1
35°	833.8	833.8	845.3	838.1	844.3	829.9	826.5	812.8	808.7
37.5°	794.5	793.4	804.9	800.4	806.0	790.8	786.1	771.4	770.4
40°	766.8	765.8	777.3	775.3	778.3	764.0	758.5	743.7	738.6
42.5°	738.4	739.0	748.8	746.8	750.7	736.4	730.9	715.3	712.6
45°	694.7	693.6	704.1	703.1	708.3	693.9	687.3	670.5	668.5
47.5°	649.0	649.5	658.7	659.8	662.9	649.8	641.9	625.4	623.3
50°	617.2	619.3	627.7	628.8	631.9	619.6	611.0	595.2	593.2
52.5°	586.3	587.5	595.9	599.5	600.1	589.4	579.2	564.3	562.2
55°	536.7	539.8	547.1	551.4	552.4	543.2	531.5	516.7	513.7
57.5°	486.5	488.5	498.6	503.4	503.6	494.0	482.3	468.6	463.7
60°	453.0	455.0	463.5	470.8	471.8	460.6	448.8	435.1	431.0
62.5°	418.7	420.7	429.1	436.5	437.5	427.1	414.5	400.8	397.5
65°	366.2	368.2	376.6	385.0	386.0	375.8	363.0	349.4	346.3
67.5°	314.7	316.7	324.9	331.9	334.1	323.1	311.3	298.7	294.6
70°	280.4	282.4	289.8	295.1	298.2	287.9	276.2	263.5	259.4
72.5°	244.4	245.6	253.0	259.0	259.7	251.1	240.2	230.1	226.8
75°	193.5	195.6	199.8	206.1	205.0	196.9	188.3	180.9	176.8
77.5°	144.8	147.0	151.1	155.3	155.9	148.3	141.0	133.6	130.8
80°	113.0	116.1	119.3	123.4	122.4	117.3	110.9	103.5	101.5
82.5°	83.7	85.9	90.0	93.3	90.6	87.1	82.4	75.1	73.0
85°	42.9	43.9	48.1	51.2	48.1	47.1	42.9	37.6	35.6
87.5°	9.2	10.8	14.2	18.3	15.1	15.9	12.6	8.4	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.2	2.2	2.2	4.5	6.7	24.1	26.7	23.4	23.4
95°	7.0	7.0	9.7	30.6	29.2	49.6	69.5	65.3	65.3
97.5°	14.2	15.5	22.2	90.4	68.1	66.2	94.0	104.6	106.5
100°	20.9	22.2	33.4	147.7	101.5	86.5	102.9	122.4	126.5
102.5°	28.6	31.1	53.4	232.4	142.7	101.6	117.3	134.7	139.9
105°	43.1	47.2	109.8	389.5	215.5	132.6	147.4	154.4	158.5
107.5°	64.0	80.5	295.9	547.3	305.9	175.1	190.8	189.7	193.3
110°	86.2	120.2	511.7	633.6	372.6	208.1	208.6	219.6	215.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	142.9	238.9	763.0	716.7	439.4	247.7	225.2	249.7	251.1
115°	392.1	673.5	1042.8	833.1	538.1	317.8	255.8	279.7	289.2
117.5°	972.1	1171.7	1186.0	936.4	636.5	396.2	290.9	301.4	313.9
120°	1318.1	1358.8	1252.7	999.9	702.1	452.0	319.8	315.9	329.5
122.5°	1453.8	1439.1	1307.2	1058.9	766.6	511.1	355.4	333.6	342.9
125°	1562.8	1524.7	1375.1	1140.7	860.6	599.6	422.7	362.9	362.9
127.5°	1627.8	1583.5	1437.4	1213.3	945.4	689.1	503.6	410.4	397.6
130°	1665.7	1618.1	1475.2	1263.4	1001.1	746.8	560.3	451.4	431.0
132.5°	1694.6	1651.3	1510.8	1302.7	1055.6	803.5	617.0	502.3	468.8
135°	1729.6	1692.9	1565.5	1362.9	1131.8	888.4	702.1	590.1	556.1
137.5°	1752.1	1723.6	1614.8	1412.3	1202.4	972.6	788.1	675.6	644.8
140°	1764.4	1741.3	1639.2	1441.5	1245.8	1026.9	848.1	733.5	704.9
142.5°	1776.6	1757.8	1657.0	1474.0	1288.0	1081.1	907.1	792.4	761.6
145°	1801.9	1780.2	1686.5	1513.1	1348.7	1157.0	998.3	878.1	850.9
147.5°	1819.7	1793.6	1710.7	1555.2	1405.9	1225.7	1082.0	966.0	939.1
150°	1824.2	1797.0	1724.0	1577.7	1440.4	1267.8	1133.1	1022.7	996.9
152.5°	1820.8	1800.2	1734.1	1596.9	1469.3	1308.6	1179.9	1077.3	1053.6
155°	1822.8	1803.7	1742.1	1622.7	1505.8	1365.7	1249.9	1159.0	1134.5
157.5°	1814.4	1801.9	1747.7	1642.5	1539.4	1416.8	1314.2	1237.7	1213.0
160°	1814.4	1795.4	1747.7	1653.9	1562.8	1449.9	1354.2	1285.6	1265.2
162.5°	1802.2	1785.3	1746.6	1662.0	1585.0	1480.9	1392.0	1328.0	1313.1
165°	1779.7	1766.1	1740.7	1672.6	1612.8	1523.1	1446.0	1388.8	1379.2
167.5°	1762.1	1743.4	1729.6	1672.2	1631.7	1553.4	1491.6	1444.2	1438.7
170°	1742.1	1729.9	1718.5	1669.2	1640.6	1575.4	1523.8	1476.4	1471.0
172.5°	1716.5	1709.7	1704.0	1667.1	1646.2	1594.0	1551.6	1508.6	1498.8
175°	1676.8	1682.2	1680.9	1662.6	1651.7	1617.8	1592.0	1561.1	1548.9
177.5°	1652.3	1650.1	1655.6	1652.3	1651.2	1630.5	1623.4	1602.4	1608.9
180°	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8	1637.8

(END OF REPORT)