

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: P522401

Luminaire Tested: **SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522401
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-075U-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7980.2 lumens
Efficiency: N/A
Efficacy: 93.9 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

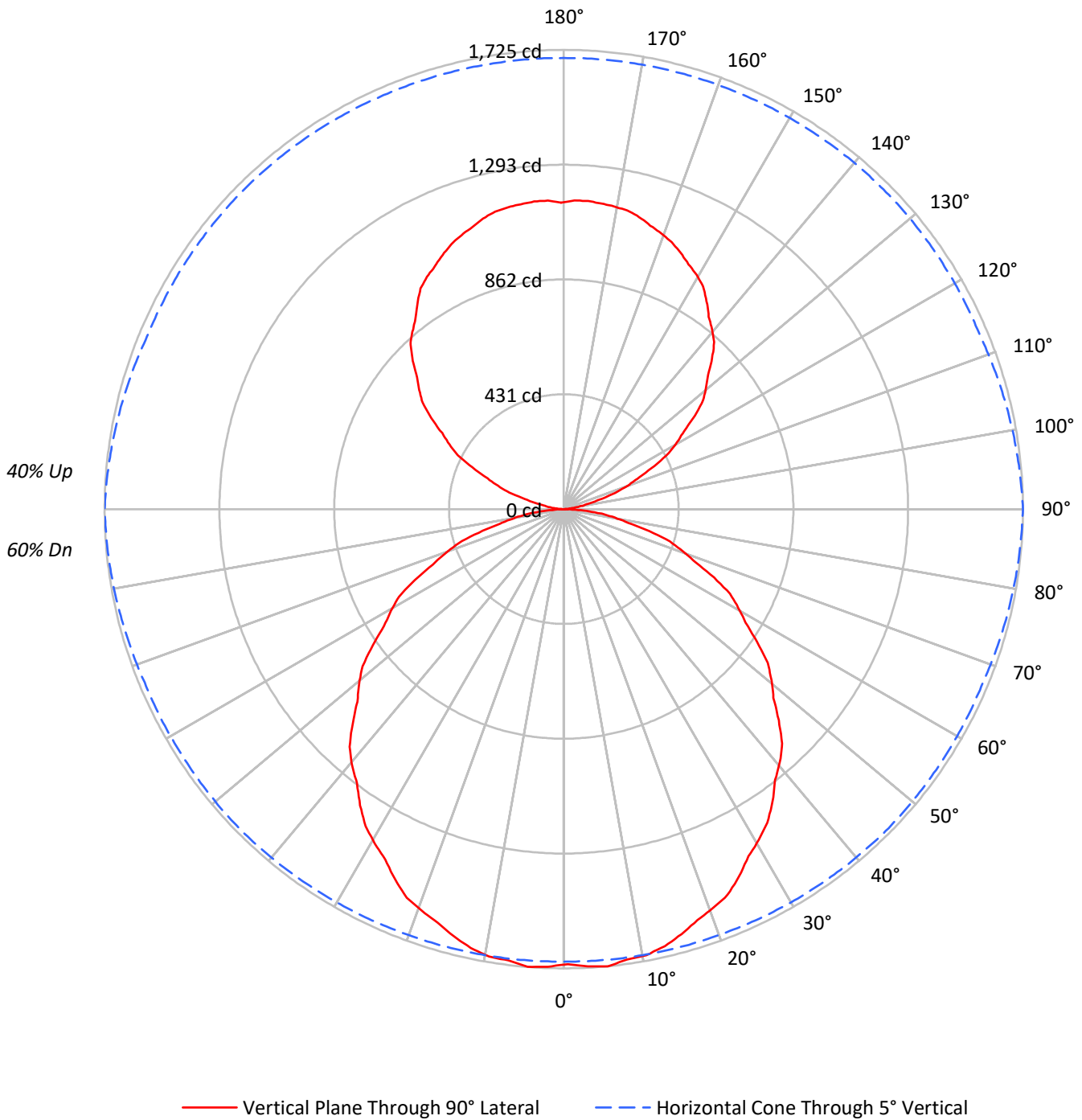
Input Watts (W): 85
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20									
RC	80					70					50					30					10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR																									
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60							
1	100	95	91	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50							
2	91	83	77	71	84	78	72	68	68	64	60	59	56	53	50	48	46	42							
3	83	73	65	59	77	68	62	56	60	55	50	52	48	44	44	41	39	35							
4	76	64	56	50	70	61	53	48	53	47	43	46	42	38	40	36	33	30							
5	69	57	49	43	65	54	46	41	47	41	37	41	37	33	36	32	29	26							
6	64	51	43	37	59	48	41	35	43	37	32	37	32	29	32	28	25	23							
7	59	46	38	33	55	44	36	31	39	33	28	34	29	25	29	25	23	20							
8	55	42	34	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18							
9	51	39	31	26	48	36	29	25	32	27	22	28	24	20	25	21	18	16							
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16	15							

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	27593	27593	27593
5°	27540	27951	27460
10°	27586	27922	27234
15°	27554	27686	27244
20°	27283	27484	26663
25°	26861	27227	26306
30°	26690	26892	25963
35°	26274	26621	25332
40°	25914	26346	25029
45°	25398	25843	24395
50°	24825	25387	23893
55°	24192	24769	23037
60°	23431	24312	22294
65°	22384	23690	21005
70°	21158	22405	19733
75°	19370	20711	17792
80°	16709	17982	15072
85°	11949	13931	10485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	2.0
10°-20°	461.9	5.8
20°-30°	695.0	8.7
30°-40°	830.2	10.4
40°-50°	853.1	10.7
50°-60°	766.8	9.6
60°-70°	582.9	7.3
70°-80°	332.1	4.2
80°-90°	86.5	1.1
90°-100°	30.2	0.4
100°-110°	130.9	1.6
110°-120°	373.4	4.7
120°-130°	567.7	7.1
130°-140°	614.1	7.7
140°-150°	586.7	7.4
150°-160°	482.6	6.0
160°-170°	315.3	4.0
170°-180°	109.1	1.4
0°-30°	1318.6	16.5
0°-40°	2148.8	26.9
0°-60°	3768.7	47.2
0°-90°	4770.2	59.8
90°-120°	534.6	6.7
90°-150°	2303.1	28.9
90°-180°	3210.0	40.2
0°-180°	7980.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1709	1709	1709	1709	1709	
5°	1699	1710	1725	1698	1694	162
15°	1648	1643	1656	1638	1630	464
25°	1508	1533	1528	1509	1477	697
35°	1333	1352	1351	1320	1285	833
45°	1112	1125	1132	1096	1068	855
55°	859	877	880	841	818	766
65°	586	600	620	579	550	579
75°	310	321	332	305	285	328
85°	64	77	75	67	57	79
90°	0	0	0	0	0	2
95°	5	7	20	49	46	6
105°	30	77	151	104	111	35
115°	275	732	378	180	203	379
125°	1098	966	604	297	255	965
135°	1215	1100	795	493	391	936
145°	1266	1185	947	701	598	793
155°	1280	1224	1058	878	797	592
165°	1250	1223	1133	1016	969	355
175°	1178	1181	1160	1118	1088	114
180°	1150	1150	1150	1150	1150	



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CATALOG NUMBER: SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0
2.5°	1706.6	1705.1	1712.1	1704.6	1719.1	1711.5	1706.6	1709.4	1694.1
5°	1699.2	1703.0	1710.0	1703.6	1724.6	1694.1	1698.2	1695.3	1694.3
7.5°	1693.6	1696.6	1694.7	1690.8	1707.8	1688.3	1686.5	1680.2	1678.3
10°	1682.6	1686.4	1680.7	1683.1	1703.1	1674.5	1674.8	1659.2	1661.1
12.5°	1662.3	1670.7	1669.0	1660.5	1684.4	1660.3	1665.4	1654.4	1650.2
15°	1648.4	1639.8	1642.6	1644.8	1656.3	1629.5	1637.7	1624.2	1629.9
17.5°	1619.1	1613.8	1615.6	1609.9	1623.1	1595.6	1600.0	1589.2	1585.4
20°	1587.9	1587.9	1589.8	1587.2	1599.6	1572.9	1574.2	1555.6	1551.8
22.5°	1564.5	1560.6	1571.1	1562.9	1573.8	1547.9	1547.7	1524.6	1533.0
25°	1507.8	1512.6	1533.2	1515.0	1528.3	1495.9	1508.8	1483.3	1476.6
27.5°	1464.5	1466.0	1477.3	1467.4	1476.8	1451.7	1463.3	1431.0	1421.5
30°	1431.6	1427.8	1449.2	1433.8	1442.4	1424.2	1425.8	1390.7	1392.6
32.5°	1386.3	1387.1	1410.9	1400.1	1404.1	1379.9	1384.4	1359.1	1348.8
35°	1333.0	1333.0	1352.5	1341.0	1350.6	1321.0	1320.3	1293.8	1285.2
37.5°	1270.9	1264.8	1288.5	1282.4	1289.8	1262.3	1252.7	1227.6	1222.7
40°	1229.5	1225.7	1243.2	1239.5	1250.0	1223.3	1209.0	1185.6	1187.5
42.5°	1176.4	1180.2	1194.7	1196.4	1202.3	1173.3	1164.5	1137.9	1139.8
45°	1112.3	1110.4	1125.0	1124.2	1131.8	1107.0	1095.7	1064.5	1068.4
47.5°	1032.8	1035.5	1051.2	1049.5	1060.0	1037.8	1019.7	998.9	994.1
50°	988.3	990.2	1002.0	1004.1	1010.7	987.8	973.6	952.1	951.2
52.5°	934.4	932.5	949.6	954.0	959.2	942.4	924.4	899.7	896.5
55°	859.4	860.3	877.0	883.7	879.9	868.4	840.8	816.5	818.4
57.5°	777.2	784.2	792.0	803.7	804.5	786.0	768.0	744.3	740.4
60°	725.6	726.5	741.2	752.9	752.9	732.9	710.9	690.4	690.4
62.5°	667.0	671.8	684.2	695.2	700.6	684.4	657.0	635.7	634.2
65°	585.9	586.9	599.6	614.4	620.1	598.2	579.1	554.6	549.8
67.5°	502.2	506.2	516.4	528.1	534.8	511.1	491.0	471.9	473.4
70°	448.2	449.2	457.0	471.7	474.6	455.5	435.5	418.0	418.0
72.5°	389.6	396.0	402.3	415.5	417.6	400.8	384.8	367.9	364.1
75°	310.5	315.3	321.3	329.2	332.0	317.7	304.7	289.9	285.2
77.5°	232.0	236.6	246.7	247.8	247.3	237.3	227.1	216.1	211.3
80°	179.7	183.5	194.3	196.2	193.4	185.7	174.8	166.9	162.1
82.5°	130.5	137.3	145.1	147.0	143.4	139.5	130.3	120.8	116.8
85°	64.5	68.3	77.1	80.9	75.2	73.3	67.4	59.5	56.6
87.5°	12.5	15.6	23.4	28.8	21.9	25.7	19.5	14.0	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.6	1.6	1.6	3.2	4.7	16.9	18.8	16.4	16.4
95°	4.9	4.9	6.8	21.5	20.5	34.8	48.8	45.9	45.9
97.5°	10.0	10.9	15.6	63.5	47.9	46.5	66.0	73.5	74.8
100°	14.6	15.6	23.4	103.8	71.3	60.8	72.3	86.0	88.9
102.5°	20.1	21.8	37.5	163.2	100.2	71.4	82.4	94.6	98.2
105°	30.3	33.1	77.1	273.6	151.4	93.1	103.5	108.5	111.3
107.5°	44.9	56.6	207.8	384.4	214.8	123.0	134.0	133.3	135.7
110°	60.5	84.4	359.4	445.1	261.7	146.2	146.5	154.2	151.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	100.4	167.8	535.9	503.4	308.6	174.0	158.2	175.4	176.4
115°	275.4	473.0	732.4	585.1	377.9	223.2	179.7	196.4	203.1
117.5°	682.8	823.0	833.0	657.7	447.1	278.3	204.3	211.7	220.5
120°	925.8	954.4	879.9	702.3	493.2	317.5	224.6	221.9	231.4
122.5°	1021.1	1010.8	918.2	743.8	538.5	359.0	249.6	234.3	240.8
125°	1097.7	1070.9	965.8	801.2	604.5	421.2	296.9	254.9	254.9
127.5°	1143.4	1112.2	1009.6	852.2	664.1	484.0	353.7	288.3	279.3
130°	1169.9	1136.5	1036.1	887.4	703.1	524.6	393.6	317.1	302.7
132.5°	1190.2	1159.9	1061.1	915.0	741.4	564.4	433.4	352.8	329.3
135°	1214.8	1189.1	1099.6	957.3	794.9	624.0	493.2	414.5	390.6
137.5°	1230.7	1210.6	1134.2	992.0	844.5	683.2	553.5	474.5	452.9
140°	1239.3	1223.0	1151.4	1012.5	875.0	721.3	595.7	515.2	495.1
142.5°	1247.9	1234.7	1163.9	1035.3	904.7	759.4	637.1	556.5	535.0
145°	1265.6	1250.4	1184.6	1062.8	947.3	812.6	701.2	616.8	597.7
147.5°	1278.1	1259.8	1201.6	1092.3	987.5	860.9	760.0	678.5	659.6
150°	1281.3	1262.2	1210.9	1108.2	1011.7	890.5	795.9	718.3	700.2
152.5°	1278.9	1264.4	1218.0	1121.6	1032.0	919.2	828.7	756.7	740.0
155°	1280.3	1266.9	1223.6	1139.7	1057.6	959.3	877.9	814.1	796.9
157.5°	1274.4	1265.6	1227.5	1153.6	1081.3	995.1	923.1	869.3	852.0
160°	1274.4	1261.1	1227.5	1161.6	1097.7	1018.4	951.2	903.0	888.7
162.5°	1265.8	1254.0	1226.8	1167.3	1113.3	1040.1	977.7	932.8	922.3
165°	1250.0	1240.5	1222.7	1174.8	1132.8	1069.8	1015.6	975.4	968.8
167.5°	1237.7	1224.5	1214.8	1174.6	1146.1	1091.1	1047.7	1014.4	1010.6
170°	1223.6	1215.0	1207.0	1172.4	1152.3	1106.5	1070.3	1037.0	1033.2
172.5°	1205.7	1200.9	1196.9	1171.0	1156.3	1119.6	1089.8	1059.6	1052.7
175°	1177.7	1181.6	1180.7	1167.8	1160.2	1136.3	1118.2	1096.5	1087.9
177.5°	1160.6	1159.0	1162.9	1160.5	1159.8	1145.3	1140.2	1125.5	1130.1
180°	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4

(END OF REPORT)