

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: P522406

Luminaire Tested: **SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522406
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

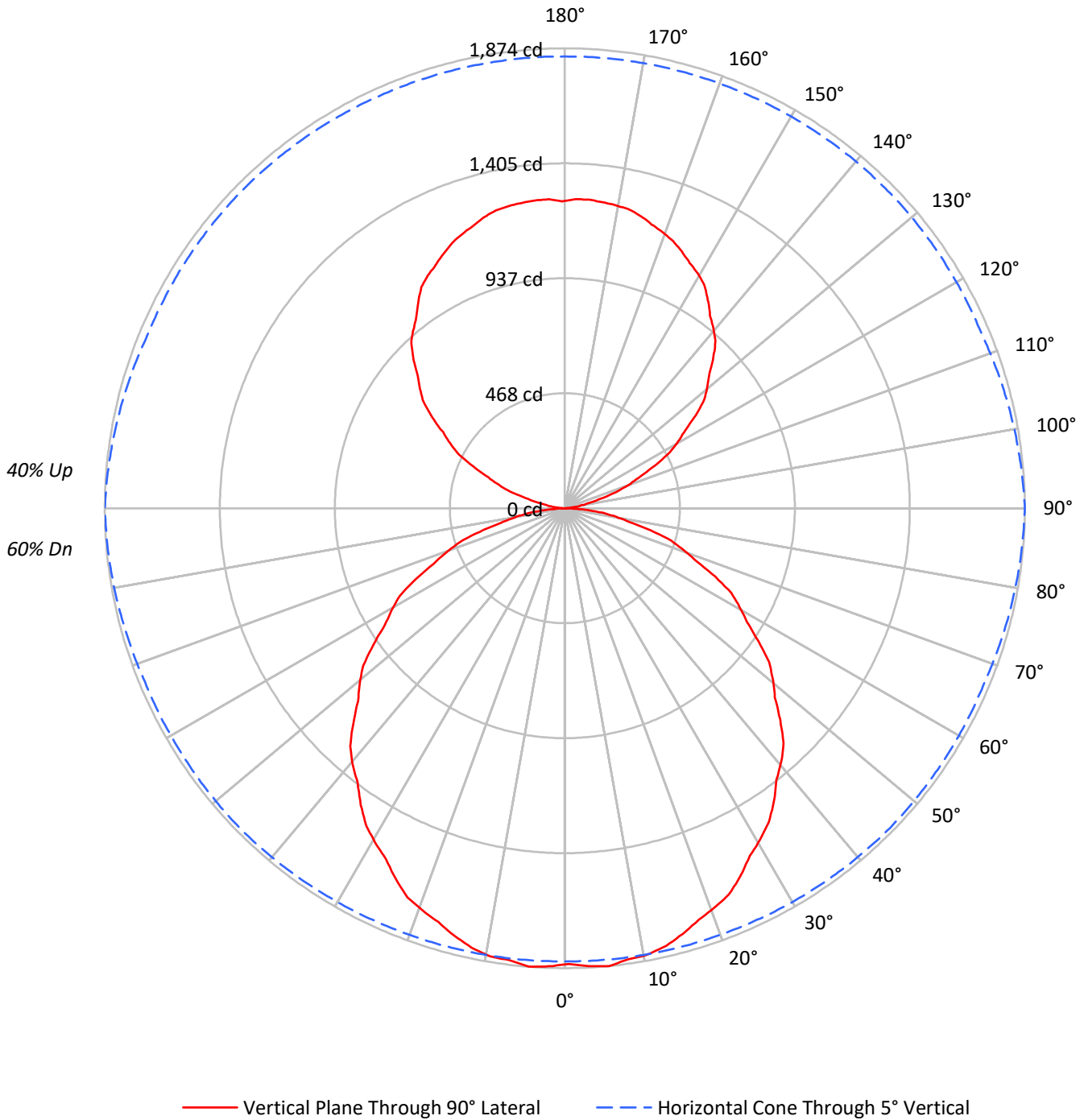
Lumens per Lamp: N/A
Luminaire Lumens: 8670.8 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 84.8
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





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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°	29981	29981	29981
5°	29924	30371	29838
10°	29973	30339	29591
15°	29939	30081	29601
20°	29644	29862	28969
25°	29186	29584	28581
30°	29000	29218	28210
35°	28549	28925	27524
40°	28157	28627	27196
45°	27597	28081	26505
50°	26972	27585	25960
55°	26283	26911	25030
60°	25459	26418	24225
65°	24321	25742	22823
70°	22990	24345	21437
75°	21048	22508	19326
80°	18150	19535	16374
85°	12968	15135	11393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	2.0
10°-20°	501.9	5.8
20°-30°	755.1	8.7
30°-40°	902.0	10.4
40°-50°	926.9	10.7
50°-60°	833.2	9.6
60°-70°	633.3	7.3
70°-80°	360.9	4.2
80°-90°	93.9	1.1
90°-100°	32.9	0.4
100°-110°	142.3	1.6
110°-120°	405.7	4.7
120°-130°	616.9	7.1
130°-140°	667.2	7.7
140°-150°	637.5	7.4
150°-160°	524.3	6.0
160°-170°	342.6	4.0
170°-180°	118.5	1.4
0°-30°	1432.7	16.5
0°-40°	2334.8	26.9
0°-60°	4094.8	47.2
0°-90°	5183.0	59.8
90°-120°	580.8	6.7
90°-150°	2502.4	28.9
90°-180°	3488.0	40.2
0°-180°	8670.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1857	1857	1857	1857	1857	
5°	1846	1858	1874	1845	1841	176
15°	1791	1785	1800	1779	1771	504
25°	1638	1666	1661	1639	1604	758
35°	1448	1470	1468	1435	1396	905
45°	1209	1222	1230	1190	1161	929
55°	934	953	956	914	889	833
65°	637	652	674	629	597	629
75°	337	349	361	331	310	357
85°	70	84	82	73	62	86
90°	0	0	0	0	0	2
95°	5	7	22	53	50	7
105°	33	84	164	112	121	38
115°	299	796	411	195	221	412
125°	1193	1049	657	323	277	1048
135°	1320	1195	864	536	424	1017
145°	1375	1287	1029	762	649	861
155°	1391	1330	1149	954	866	643
165°	1358	1328	1231	1104	1053	386
175°	1280	1283	1261	1215	1182	124
180°	1250	1250	1250	1250	1250	



TEST NUMBER: P522406

CATALOG NUMBER: SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9
2.5°	1854.3	1852.7	1860.3	1852.1	1867.9	1859.6	1854.3	1857.3	1840.7
5°	1846.3	1850.4	1857.9	1851.0	1873.9	1840.7	1845.2	1842.0	1841.0
7.5°	1840.1	1843.4	1841.4	1837.1	1855.6	1834.4	1832.5	1825.6	1823.6
10°	1828.2	1832.4	1826.1	1828.7	1850.5	1819.4	1819.7	1802.8	1804.9
12.5°	1806.2	1815.3	1813.4	1804.2	1830.1	1804.0	1809.5	1797.6	1793.0
15°	1791.1	1781.7	1784.7	1787.1	1799.6	1770.5	1779.4	1764.7	1770.9
17.5°	1759.3	1753.4	1755.4	1749.2	1763.5	1733.6	1738.5	1726.7	1722.5
20°	1725.3	1725.3	1727.4	1724.5	1738.0	1709.0	1710.4	1690.2	1686.0
22.5°	1699.8	1695.7	1707.1	1698.2	1710.0	1681.8	1681.6	1656.5	1665.7
25°	1638.3	1643.5	1665.9	1646.1	1660.6	1625.3	1639.4	1611.6	1604.3
27.5°	1591.2	1592.8	1605.2	1594.4	1604.6	1577.4	1589.9	1554.9	1544.5
30°	1555.5	1551.4	1574.6	1557.9	1567.2	1547.5	1549.2	1511.0	1513.1
32.5°	1506.3	1507.1	1533.0	1521.2	1525.6	1499.3	1504.2	1476.8	1465.6
35°	1448.4	1448.4	1469.6	1457.1	1467.5	1435.3	1434.6	1405.7	1396.4
37.5°	1380.9	1374.2	1400.0	1393.4	1401.5	1371.6	1361.1	1333.9	1328.5
40°	1335.9	1331.7	1350.7	1346.8	1358.2	1329.1	1313.6	1288.2	1290.3
42.5°	1278.2	1282.3	1298.1	1300.0	1306.4	1274.9	1265.2	1236.4	1238.5
45°	1208.6	1206.5	1222.4	1221.5	1229.8	1202.8	1190.5	1156.7	1160.8
47.5°	1122.2	1125.1	1142.1	1140.3	1151.7	1127.6	1108.0	1085.4	1080.2
50°	1073.8	1075.9	1088.7	1090.9	1098.2	1073.3	1057.9	1034.5	1033.5
52.5°	1015.2	1013.2	1031.8	1036.6	1042.2	1023.9	1004.4	977.6	974.1
55°	933.7	934.8	952.8	960.2	956.0	943.6	913.6	887.1	889.2
57.5°	844.4	852.1	860.5	873.3	874.1	854.0	834.4	808.7	804.5
60°	788.4	789.4	805.4	818.1	818.1	796.3	772.5	750.2	750.2
62.5°	724.7	729.9	743.4	755.4	761.2	743.6	713.9	690.7	689.1
65°	636.6	637.7	651.5	667.6	673.8	649.9	629.2	602.6	597.4
67.5°	545.6	550.0	561.1	573.8	581.0	555.3	533.5	512.7	514.4
70°	487.0	488.1	496.6	512.6	515.7	494.9	473.2	454.1	454.1
72.5°	423.4	430.2	437.2	451.4	453.7	435.5	418.1	399.7	395.6
75°	337.4	342.6	349.1	357.7	360.8	345.2	331.1	315.0	309.8
77.5°	252.1	257.1	268.0	269.3	268.7	257.9	246.8	234.8	229.6
80°	195.2	199.4	211.2	213.2	210.1	201.8	189.9	181.3	176.1
82.5°	141.8	149.2	157.7	159.7	155.8	151.6	141.5	131.3	126.9
85°	70.0	74.2	83.8	87.9	81.7	79.6	73.2	64.7	61.5
87.5°	13.6	16.9	25.5	31.2	23.8	27.9	21.2	15.2	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.7	1.7	1.7	3.4	5.1	18.4	20.4	17.8	17.8
95°	5.3	5.3	7.4	23.3	22.3	37.8	53.1	49.9	49.9
97.5°	10.8	11.9	17.0	69.0	52.0	50.5	71.7	79.8	81.3
100°	15.9	17.0	25.5	112.7	77.5	66.0	78.5	93.4	96.6
102.5°	21.9	23.7	40.7	177.3	108.9	77.5	89.6	102.8	106.7
105°	32.9	36.0	83.8	297.3	164.5	101.2	112.5	117.8	121.0
107.5°	48.8	61.5	225.8	417.7	233.4	133.6	145.6	144.8	147.5
110°	65.8	91.7	390.5	483.6	284.4	158.8	159.2	167.6	164.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	109.1	182.3	582.3	546.9	335.3	189.0	171.9	190.6	191.6
115°	299.2	514.0	795.8	635.8	410.6	242.6	195.2	213.4	220.7
117.5°	741.9	894.2	905.1	714.6	485.8	302.3	222.0	230.0	239.6
120°	1005.9	1037.0	956.0	763.1	535.8	344.9	244.0	241.1	251.5
122.5°	1109.5	1098.3	997.6	808.1	585.1	390.0	271.2	254.6	261.7
125°	1192.6	1163.6	1049.4	870.5	656.8	457.6	322.6	276.9	276.9
127.5°	1242.3	1208.5	1096.9	925.9	721.5	525.9	384.3	313.2	303.5
130°	1271.2	1234.9	1125.8	964.2	764.0	570.0	427.6	344.5	328.9
132.5°	1293.2	1260.2	1153.0	994.2	805.6	613.2	470.9	383.3	357.8
135°	1320.0	1292.0	1194.8	1040.1	863.7	678.0	535.8	450.4	424.4
137.5°	1337.2	1315.4	1232.3	1077.8	917.6	742.3	601.4	515.6	492.1
140°	1346.5	1328.9	1251.0	1100.1	950.7	783.7	647.3	559.8	538.0
142.5°	1355.8	1341.5	1264.6	1124.9	983.0	825.1	692.2	604.7	581.3
145°	1375.1	1358.5	1287.1	1154.8	1029.2	883.0	761.8	670.1	649.4
147.5°	1388.7	1368.8	1305.5	1186.9	1073.0	935.4	825.7	737.2	716.6
150°	1392.1	1371.4	1315.7	1204.1	1099.3	967.5	864.8	780.5	760.8
152.5°	1389.6	1373.8	1323.4	1218.7	1121.3	998.7	900.4	822.1	804.1
155°	1391.1	1376.5	1329.5	1238.4	1149.1	1042.3	953.9	884.5	865.8
157.5°	1384.7	1375.2	1333.8	1253.5	1174.8	1081.2	1002.9	944.6	925.7
160°	1384.7	1370.2	1333.8	1262.2	1192.6	1106.5	1033.5	981.1	965.6
162.5°	1375.4	1362.5	1332.9	1268.3	1209.6	1130.1	1062.3	1013.5	1002.1
165°	1358.2	1347.8	1328.5	1276.5	1230.8	1162.4	1103.5	1059.8	1052.6
167.5°	1344.8	1330.5	1320.0	1276.2	1245.3	1185.5	1138.3	1102.1	1098.0
170°	1329.5	1320.2	1311.5	1273.9	1252.1	1202.3	1162.9	1126.8	1122.6
172.5°	1310.0	1304.8	1300.4	1272.3	1256.3	1216.5	1184.2	1151.3	1143.8
175°	1279.7	1283.8	1282.8	1268.9	1260.6	1234.6	1214.9	1191.4	1182.0
177.5°	1261.0	1259.3	1263.5	1261.0	1260.1	1244.4	1238.9	1222.9	1227.9
180°	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9

(END OF REPORT)