

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: P522405

Luminaire Tested: **SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522405
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

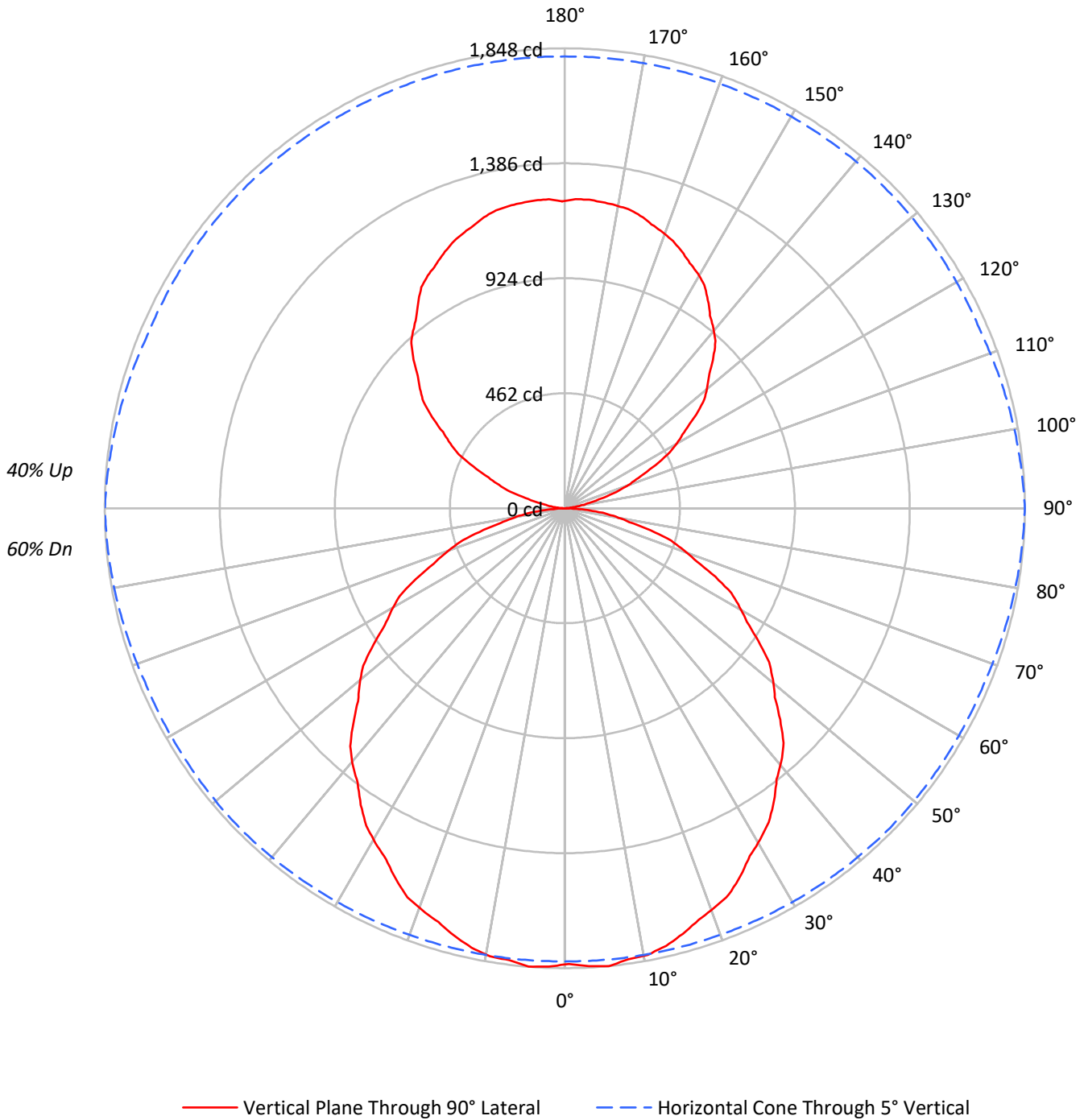
Lumens per Lamp: N/A
Luminaire Lumens: 8549.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 84.9
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				
RC	80					70					50					30				
RW	70	50	30	10	70	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°	29560	29560	29560
5°	29503	29943	29418
10°	29552	29913	29175
15°	29518	29658	29187
20°	29228	29443	28563
25°	28777	29168	28180
30°	28594	28808	27813
35°	28146	28519	27137
40°	27760	28224	26812
45°	27209	27686	26133
50°	26593	27198	25596
55°	25914	26534	24679
60°	25100	26046	23883
65°	23981	25379	22502
70°	22669	24000	21139
75°	20755	22190	19058
80°	17899	19256	16151
85°	12782	14931	11245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	2.0
10°-20°	494.8	5.8
20°-30°	744.5	8.7
30°-40°	889.3	10.4
40°-50°	913.9	10.7
50°-60°	821.5	9.6
60°-70°	624.4	7.3
70°-80°	355.8	4.2
80°-90°	92.6	1.1
90°-100°	32.4	0.4
100°-110°	140.3	1.6
110°-120°	400.0	4.7
120°-130°	608.2	7.1
130°-140°	657.8	7.7
140°-150°	628.5	7.4
150°-160°	517.0	6.0
160°-170°	337.8	4.0
170°-180°	116.8	1.4
0°-30°	1412.6	16.5
0°-40°	2302.0	26.9
0°-60°	4037.3	47.2
0°-90°	5110.2	59.8
90°-120°	572.7	6.7
90°-150°	2467.2	28.9
90°-180°	3439.0	40.2
0°-180°	8549.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1831	1831	1831	1831	1831	
5°	1820	1832	1848	1819	1815	173
15°	1766	1760	1774	1754	1746	497
25°	1615	1642	1637	1616	1582	747
35°	1428	1449	1447	1414	1377	892
45°	1192	1205	1212	1174	1144	916
55°	921	940	943	901	877	821
65°	628	642	664	620	589	621
75°	333	344	356	326	306	352
85°	69	83	81	72	61	85
90°	0	0	0	0	0	2
95°	5	7	22	52	49	7
105°	32	83	162	111	119	37
115°	295	785	405	192	218	406
125°	1176	1035	648	318	273	1033
135°	1301	1178	852	528	418	1003
145°	1356	1269	1015	751	640	849
155°	1372	1311	1133	940	854	634
165°	1339	1310	1214	1088	1038	381
175°	1262	1265	1243	1198	1165	122
180°	1232	1232	1232	1232	1232	



TEST NUMBER: P522405

CATALOG NUMBER: SQW-F-075U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8
2.5°	1828.3	1826.6	1834.1	1826.1	1841.7	1833.5	1828.3	1831.3	1814.9
5°	1820.3	1824.4	1831.8	1825.0	1847.5	1814.8	1819.3	1816.1	1815.1
7.5°	1814.3	1817.5	1815.5	1811.3	1829.5	1808.7	1806.7	1800.0	1797.9
10°	1802.5	1806.6	1800.5	1803.0	1824.5	1793.8	1794.2	1777.5	1779.5
12.5°	1780.8	1789.8	1787.9	1778.9	1804.4	1778.7	1784.1	1772.3	1767.8
15°	1765.9	1756.7	1759.7	1762.0	1774.3	1745.7	1754.4	1739.9	1746.1
17.5°	1734.5	1728.8	1730.8	1724.6	1738.7	1709.3	1714.0	1702.4	1698.4
20°	1701.1	1701.1	1703.2	1700.3	1713.6	1685.0	1686.4	1666.5	1662.4
22.5°	1676.0	1671.9	1683.1	1674.3	1686.0	1658.2	1658.0	1633.3	1642.3
25°	1615.3	1620.4	1642.5	1622.9	1637.3	1602.5	1616.3	1589.0	1581.8
27.5°	1568.8	1570.5	1582.6	1572.0	1582.0	1555.2	1567.6	1533.0	1522.8
30°	1533.7	1529.6	1552.5	1536.0	1545.2	1525.8	1527.4	1489.8	1491.8
32.5°	1485.1	1486.0	1511.5	1499.9	1504.2	1478.2	1483.0	1456.0	1445.0
35°	1428.0	1428.0	1448.9	1436.6	1446.9	1415.1	1414.4	1386.0	1376.8
37.5°	1361.5	1354.9	1380.3	1373.8	1381.8	1352.3	1342.0	1315.1	1309.8
40°	1317.1	1313.0	1331.8	1327.8	1339.1	1310.5	1295.2	1270.1	1272.1
42.5°	1260.2	1264.3	1279.9	1281.7	1288.0	1256.9	1247.5	1219.0	1221.1
45°	1191.6	1189.5	1205.2	1204.3	1212.5	1185.9	1173.8	1140.4	1144.5
47.5°	1106.4	1109.3	1126.1	1124.3	1135.5	1111.8	1092.4	1070.1	1065.0
50°	1058.7	1060.8	1073.4	1075.6	1082.8	1058.2	1043.0	1020.0	1019.0
52.5°	1001.0	998.9	1017.3	1022.0	1027.5	1009.5	990.3	963.9	960.4
55°	920.6	921.7	939.5	946.7	942.6	930.3	900.8	874.6	876.7
57.5°	832.5	840.1	848.4	861.0	861.8	842.0	822.7	797.3	793.2
60°	777.3	778.3	794.0	806.6	806.6	785.1	761.6	739.6	739.6
62.5°	714.5	719.6	732.9	744.8	750.5	733.1	703.9	681.0	679.4
65°	627.7	628.7	642.3	658.2	664.3	640.8	620.4	594.1	589.0
67.5°	537.9	542.2	553.2	565.7	572.9	547.5	526.0	505.5	507.2
70°	480.2	481.2	489.6	505.4	508.4	488.0	466.6	447.8	447.8
72.5°	417.4	424.2	431.0	445.1	447.3	429.3	412.2	394.1	390.0
75°	332.7	337.8	344.2	352.6	355.7	340.4	326.4	310.6	305.5
77.5°	248.6	253.5	264.3	265.5	264.9	254.3	243.3	231.5	226.4
80°	192.5	196.6	208.2	210.2	207.1	199.0	187.3	178.8	173.7
82.5°	139.8	147.1	155.5	157.5	153.6	149.5	139.6	129.4	125.1
85°	69.0	73.1	82.6	86.7	80.6	78.5	72.2	63.7	60.7
87.5°	13.4	16.7	25.1	30.8	23.4	27.5	20.9	15.0	13.4
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	5.0	18.1	20.1	17.6	17.6
95°	5.2	5.2	7.3	23.0	22.0	37.3	52.3	49.2	49.2
97.5°	10.7	11.7	16.7	68.0	51.3	49.8	70.7	78.7	80.1
100°	15.7	16.7	25.1	111.1	76.4	65.1	77.4	92.1	95.2
102.5°	21.6	23.4	40.2	174.8	107.3	76.4	88.3	101.4	105.2
105°	32.4	35.5	82.6	293.1	162.2	99.8	110.9	116.2	119.3
107.5°	48.1	60.6	222.6	411.8	230.2	131.8	143.5	142.8	145.4
110°	64.9	90.4	385.0	476.8	280.4	156.6	156.9	165.2	162.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	107.5	179.8	574.1	539.3	330.6	186.4	169.5	187.9	188.9
115°	295.0	506.8	784.6	626.8	404.9	239.2	192.5	210.4	217.6
117.5°	731.5	881.6	892.4	704.6	478.9	298.1	218.9	226.8	236.2
120°	991.8	1022.5	942.6	752.3	528.3	340.1	240.6	237.7	247.9
122.5°	1093.9	1082.8	983.6	796.8	576.9	384.5	267.4	251.0	258.0
125°	1175.9	1147.3	1034.7	858.3	647.6	451.2	318.0	273.1	273.1
127.5°	1224.9	1191.5	1081.5	912.9	711.4	518.5	378.9	308.8	299.2
130°	1253.3	1217.5	1110.0	950.7	753.2	562.0	421.6	339.7	324.3
132.5°	1275.1	1242.5	1136.8	980.2	794.3	604.6	464.3	377.9	352.8
135°	1301.4	1273.8	1178.0	1025.5	851.6	668.5	528.3	444.0	418.5
137.5°	1318.4	1296.9	1215.0	1062.7	904.7	731.9	593.0	508.3	485.2
140°	1327.6	1310.2	1233.4	1084.7	937.4	772.7	638.2	551.9	530.4
142.5°	1336.8	1322.7	1246.8	1109.1	969.2	813.5	682.5	596.2	573.1
145°	1355.8	1339.5	1269.0	1138.6	1014.8	870.6	751.1	660.7	640.3
147.5°	1369.2	1349.6	1287.2	1170.2	1057.9	922.2	814.1	726.8	706.6
150°	1372.6	1352.1	1297.2	1187.1	1083.8	953.9	852.6	769.5	750.1
152.5°	1370.1	1354.5	1304.8	1201.5	1105.6	984.7	887.8	810.6	792.8
155°	1371.5	1357.2	1310.8	1221.0	1133.0	1027.6	940.5	872.1	853.7
157.5°	1365.3	1355.8	1315.0	1235.9	1158.3	1066.1	988.8	931.3	912.7
160°	1365.3	1350.9	1315.0	1244.4	1175.9	1091.0	1019.0	967.4	952.0
162.5°	1356.0	1343.4	1314.2	1250.5	1192.6	1114.3	1047.4	999.3	988.0
165°	1339.1	1328.9	1309.8	1258.6	1213.6	1146.0	1088.0	1045.0	1037.8
167.5°	1325.9	1311.8	1301.4	1258.3	1227.8	1168.9	1122.3	1086.7	1082.6
170°	1310.8	1301.6	1293.1	1256.0	1234.5	1185.4	1146.6	1110.9	1106.8
172.5°	1291.6	1286.5	1282.2	1254.4	1238.7	1199.4	1167.5	1135.1	1127.8
175°	1261.7	1265.8	1264.8	1251.0	1242.8	1217.3	1197.9	1174.6	1165.4
177.5°	1243.3	1241.6	1245.8	1243.2	1242.4	1226.9	1221.5	1205.7	1210.6
180°	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4

(END OF REPORT)