

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: P522396

Luminaire Tested: **SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522396
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-100D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

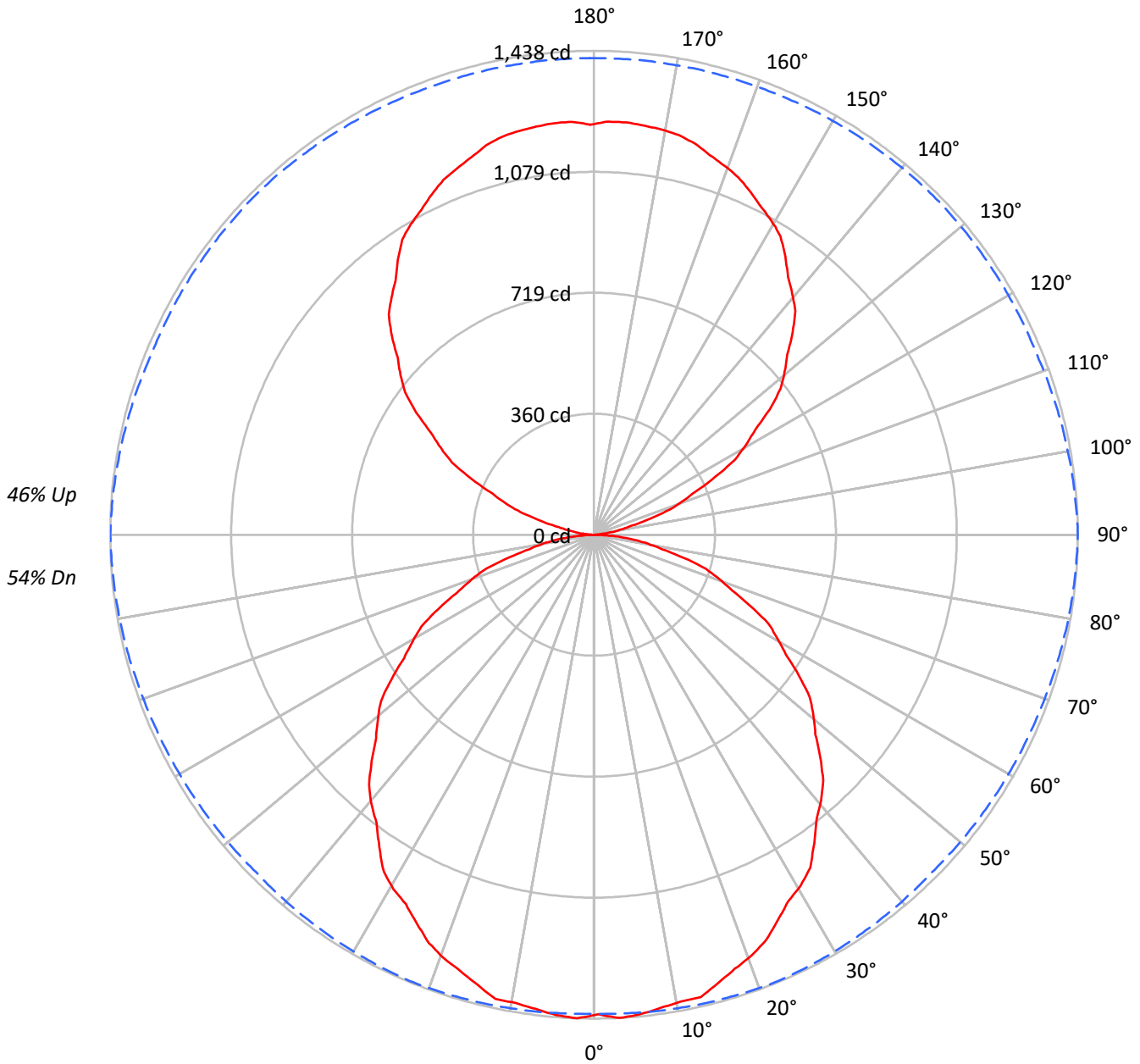
Lumens per Lamp: N/A
Luminaire Lumens: 7386.5 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 70.2
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



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



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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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54		
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	53	51	50	45		
2	90	82	76	70	83	76	71	66	65	61	58	55	52	50	46	44	42	38		
3	82	72	64	59	75	67	60	55	58	52	48	49	45	42	41	38	36	32		
4	75	64	56	49	69	59	52	47	51	45	41	43	39	36	36	33	31	27		
5	68	57	48	42	63	53	45	40	46	40	35	39	34	31	33	29	27	23		
6	63	51	42	37	58	47	40	35	41	35	31	35	30	27	30	26	23	20		
7	58	46	38	32	54	43	36	30	37	31	27	32	27	24	27	23	21	18		
8	54	42	34	28	50	39	32	27	34	28	24	29	25	21	25	21	18	16		
9	50	38	30	25	47	36	29	24	31	25	21	27	22	19	23	19	17	14		
10	47	35	27	23	44	33	26	21	29	23	19	25	20	17	21	18	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23021	23021	23021
5°	23293	23211	22857
10°	23055	23140	22817
15°	23142	23107	22674
20°	22596	22952	22153
25°	22563	22618	21788
30°	22281	22570	21567
35°	21760	22210	21191
40°	21547	21918	20763
45°	21336	21523	20390
50°	20585	21235	19806
55°	20389	20825	19108
60°	19478	20215	18409
65°	18621	19568	17471
70°	17778	18661	16315
75°	16525	17168	14716
80°	14142	15007	12311
85°	10541	11689	8429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	1.8
10°-20°	385.9	5.2
20°-30°	579.4	7.8
30°-40°	692.6	9.4
40°-50°	712.7	9.6
50°-60°	641.6	8.7
60°-70°	487.3	6.6
70°-80°	278.1	3.8
80°-90°	72.8	1.0
90°-100°	32.0	0.4
100°-110°	138.7	1.9
110°-120°	395.6	5.4
120°-130°	601.5	8.1
130°-140°	650.6	8.8
140°-150°	621.7	8.4
150°-160°	511.3	6.9
160°-170°	334.1	4.5
170°-180°	115.6	1.6
0°-30°	1100.3	14.9
0°-40°	1792.9	24.3
0°-60°	3147.2	42.6
0°-90°	3985.3	54.0
90°-120°	566.4	7.7
90°-150°	2440.2	33.0
90°-180°	3401.0	46.0
0°-180°	7386.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1426	1426	1426	1426	1426	
5°	1437	1426	1432	1407	1410	135
15°	1384	1376	1382	1363	1356	387
25°	1266	1274	1270	1256	1223	582
35°	1104	1131	1127	1102	1075	695
45°	934	942	943	922	893	714
55°	724	737	740	710	679	641
65°	487	501	512	477	457	485
75°	265	272	275	251	236	277
85°	57	65	63	57	46	68
90°	0	0	0	0	0	2
95°	5	7	22	52	49	7
105°	32	82	160	110	118	37
115°	292	776	400	190	215	401
125°	1163	1023	640	315	270	1022
135°	1287	1165	842	522	414	992
145°	1341	1255	1004	743	633	840
155°	1356	1296	1121	930	844	627
165°	1324	1296	1200	1076	1026	376
175°	1248	1251	1229	1185	1153	121
180°	1219	1219	1219	1219	1219	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1424.2	1435.5	1420.1	1424.5	1438.3	1421.3	1425.8	1417.6	1416.7
5°	1437.2	1420.0	1425.8	1417.9	1432.1	1418.9	1407.2	1422.5	1410.3
7.5°	1412.8	1401.7	1424.4	1413.0	1420.5	1411.6	1412.8	1404.3	1404.1
10°	1406.2	1399.1	1406.2	1406.3	1411.4	1399.2	1397.9	1388.7	1391.7
12.5°	1387.1	1397.1	1386.3	1399.8	1410.5	1389.5	1381.4	1384.6	1390.0
15°	1384.5	1381.4	1376.2	1372.3	1382.4	1358.1	1362.7	1353.5	1356.5
17.5°	1342.4	1348.1	1350.7	1347.4	1356.5	1334.5	1329.2	1329.2	1330.7
20°	1315.1	1327.3	1335.8	1326.7	1335.8	1318.6	1315.1	1302.4	1289.3
22.5°	1300.2	1297.8	1315.1	1297.0	1309.3	1288.1	1297.7	1275.6	1282.6
25°	1266.5	1256.4	1273.7	1263.5	1269.6	1252.4	1256.2	1229.1	1223.0
27.5°	1221.6	1221.6	1232.1	1227.9	1232.1	1218.4	1214.6	1189.9	1187.4
30°	1195.1	1187.0	1206.5	1197.5	1210.6	1178.2	1180.6	1160.9	1156.8
32.5°	1159.5	1162.7	1175.9	1164.4	1180.0	1149.2	1155.0	1124.6	1129.5
35°	1104.0	1110.1	1131.0	1115.7	1126.8	1108.6	1102.0	1082.2	1075.1
37.5°	1068.7	1059.4	1069.5	1070.4	1073.8	1053.8	1046.5	1022.6	1024.8
40°	1022.3	1020.3	1034.7	1038.9	1039.9	1020.7	1015.1	986.1	985.1
42.5°	980.1	982.1	994.2	999.1	999.3	980.1	979.5	948.1	951.9
45°	934.4	931.3	941.6	940.6	942.6	922.4	921.9	892.0	893.0
47.5°	862.5	869.0	876.0	878.0	885.9	868.7	856.5	832.7	829.0
50°	819.5	831.6	833.0	842.3	845.4	824.1	814.3	794.5	788.5
52.5°	781.4	787.9	793.2	799.3	804.0	784.4	769.6	750.8	749.6
55°	724.3	720.3	736.7	734.8	739.8	724.6	709.8	688.9	678.8
57.5°	650.4	658.3	662.0	669.7	673.2	656.6	643.6	621.4	620.6
60°	603.2	614.4	615.7	629.0	626.0	611.8	598.1	578.2	570.1
62.5°	560.2	563.2	571.8	581.1	582.1	566.4	555.9	534.4	528.7
65°	487.4	493.4	500.8	513.2	512.2	501.1	477.0	465.4	457.3
67.5°	421.3	423.4	433.3	439.2	443.3	427.9	414.1	397.9	394.4
70°	376.6	374.6	387.0	391.2	395.3	383.1	369.4	354.7	345.6
72.5°	327.8	329.8	339.0	345.7	348.1	335.9	321.4	310.1	304.2
75°	264.9	262.9	272.1	276.2	275.2	266.1	251.4	244.0	235.9
77.5°	195.1	199.2	204.7	208.4	206.9	200.9	189.4	178.1	174.7
80°	152.1	156.2	162.5	164.5	161.4	155.3	148.0	137.5	132.4
82.5°	112.4	114.8	121.1	124.7	120.0	116.4	109.9	101.9	96.0
85°	56.9	58.9	65.2	67.2	63.1	63.1	56.9	49.6	45.5
87.5°	13.2	14.1	19.0	24.7	19.9	21.5	16.6	12.3	9.1
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	3.3	5.0	17.9	19.9	17.4	17.4
95°	5.2	5.2	7.2	22.7	21.7	36.9	51.7	48.6	48.6
97.5°	10.6	11.6	16.6	67.3	50.7	49.3	69.9	77.8	79.3
100°	15.5	16.5	24.8	109.9	75.5	64.4	76.6	91.1	94.2
102.5°	21.3	23.1	39.7	172.9	106.2	75.6	87.3	100.2	104.1
105°	32.1	35.1	81.7	289.9	160.4	98.7	109.7	114.9	118.0
107.5°	47.6	59.9	220.2	407.3	227.6	130.3	142.0	141.2	143.8
110°	64.2	89.4	380.8	471.6	277.3	154.9	155.2	163.4	160.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	106.4	177.8	567.9	533.4	327.0	184.3	167.6	185.9	186.9
115°	291.8	501.2	776.0	620.0	400.4	236.5	190.4	208.1	215.2
117.5°	723.5	872.0	882.6	696.9	473.7	294.8	216.5	224.3	233.6
120°	980.9	1011.3	932.3	744.1	522.5	336.4	238.0	235.1	245.2
122.5°	1081.9	1071.0	972.8	788.1	570.5	380.3	264.5	248.3	255.2
125°	1163.0	1134.7	1023.3	848.9	640.5	446.2	314.6	270.1	270.1
127.5°	1211.5	1178.5	1069.7	902.9	703.6	512.8	374.8	305.4	295.9
130°	1239.6	1204.2	1097.8	940.3	745.0	555.8	417.0	335.9	320.8
132.5°	1261.1	1228.9	1124.3	969.5	785.6	598.0	459.2	373.8	348.9
135°	1287.2	1259.9	1165.1	1014.3	842.3	661.2	522.5	439.2	413.9
137.5°	1304.0	1282.7	1201.7	1051.0	894.8	723.8	586.5	502.8	479.9
140°	1313.1	1295.9	1219.9	1072.8	927.1	764.2	631.2	545.8	524.6
142.5°	1322.2	1308.2	1233.2	1097.0	958.6	804.6	675.1	589.7	566.8
145°	1341.0	1324.8	1255.1	1126.1	1003.7	861.0	742.9	653.5	633.2
147.5°	1354.2	1334.8	1273.1	1157.4	1046.3	912.2	805.2	718.9	698.8
150°	1357.6	1337.3	1283.1	1174.2	1072.0	943.5	843.3	761.1	741.9
152.5°	1355.1	1339.7	1290.5	1188.4	1093.5	973.9	878.1	801.7	784.1
155°	1356.5	1342.4	1296.5	1207.6	1120.6	1016.4	930.2	862.5	844.3
157.5°	1350.3	1341.0	1300.6	1222.3	1145.6	1054.4	978.0	921.1	902.7
160°	1350.3	1336.1	1300.6	1230.8	1163.0	1079.1	1007.8	956.8	941.6
162.5°	1341.2	1328.7	1299.8	1236.8	1179.6	1102.1	1036.0	988.3	977.2
165°	1324.4	1314.3	1295.5	1244.8	1200.3	1133.5	1076.1	1033.5	1026.4
167.5°	1311.4	1297.4	1287.2	1244.5	1214.3	1156.1	1110.0	1074.8	1070.7
170°	1296.5	1287.4	1278.9	1242.2	1221.0	1172.4	1134.1	1098.8	1094.7
172.5°	1277.5	1272.4	1268.2	1240.7	1225.1	1186.3	1154.7	1122.7	1115.4
175°	1247.9	1251.9	1251.0	1237.3	1229.2	1204.0	1184.8	1161.8	1152.7
177.5°	1229.7	1228.0	1232.1	1229.6	1228.8	1213.5	1208.1	1192.5	1197.4
180°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9

(END OF REPORT)