

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: P522395

Luminaire Tested: **SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522395
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

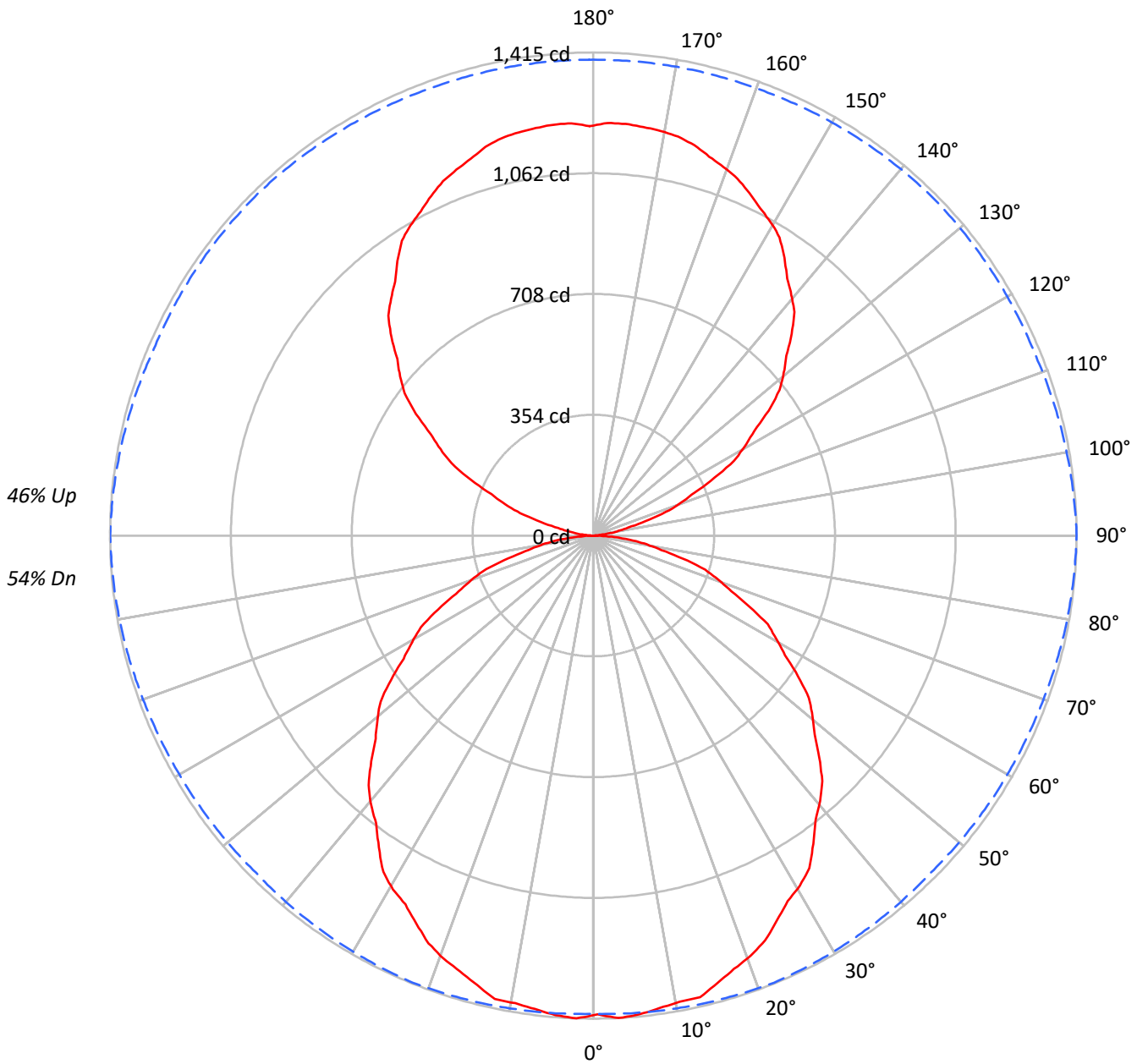
Lumens per Lamp: N/A
Luminaire Lumens: 7269.2 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 70.3
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					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	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°	22656	22656	22656
5°	22924	22841	22494
10°	22689	22773	22454
15°	22775	22740	22315
20°	22239	22588	21801
25°	22205	22258	21442
30°	21927	22212	21226
35°	21415	21857	20854
40°	21205	21570	20432
45°	20996	21183	20066
50°	20258	20896	19489
55°	20065	20496	18804
60°	19172	19895	18119
65°	18323	19259	17196
70°	17500	18364	16055
75°	16263	16899	14485
80°	13919	14775	12115
85°	10374	11504	8299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	1.8
10°-20°	379.8	5.2
20°-30°	570.2	7.8
30°-40°	681.6	9.4
40°-50°	701.4	9.6
50°-60°	631.4	8.7
60°-70°	479.6	6.6
70°-80°	273.6	3.8
80°-90°	71.6	1.0
90°-100°	31.5	0.4
100°-110°	136.5	1.9
110°-120°	389.3	5.4
120°-130°	592.0	8.1
130°-140°	640.3	8.8
140°-150°	611.8	8.4
150°-160°	503.2	6.9
160°-170°	328.8	4.5
170°-180°	113.7	1.6
0°-30°	1082.8	14.9
0°-40°	1764.4	24.3
0°-60°	3097.2	42.6
0°-90°	3922.1	54.0
90°-120°	557.4	7.7
90°-150°	2401.5	33.0
90°-180°	3347.0	46.0
0°-180°	7269.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1403	1403	1403	1403	1403	
5°	1414	1403	1409	1385	1388	133
15°	1362	1354	1360	1341	1335	381
25°	1246	1254	1249	1236	1204	573
35°	1086	1113	1109	1084	1058	684
45°	920	927	928	907	879	702
55°	713	725	728	699	668	631
65°	480	493	504	469	450	477
75°	261	268	271	247	232	273
85°	56	64	62	56	45	67
90°	0	0	0	0	0	2
95°	5	7	21	51	48	7
105°	32	80	158	108	116	36
115°	287	764	394	187	212	395
125°	1145	1007	630	310	266	1006
135°	1267	1147	829	514	407	976
145°	1320	1235	988	731	623	827
155°	1335	1276	1103	915	831	617
165°	1303	1275	1181	1059	1010	370
175°	1228	1231	1210	1166	1134	119
180°	1200	1200	1200	1200	1200	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1401.6	1412.7	1397.5	1401.9	1415.4	1398.7	1403.2	1395.0	1394.3
5°	1414.4	1397.5	1403.2	1395.4	1409.3	1396.4	1384.9	1399.9	1387.9
7.5°	1390.4	1379.4	1401.8	1390.5	1397.9	1389.2	1390.4	1382.0	1381.8
10°	1383.9	1376.9	1383.9	1384.0	1389.0	1377.0	1375.7	1366.6	1369.6
12.5°	1365.1	1374.9	1364.3	1377.6	1388.1	1367.4	1359.4	1362.6	1368.0
15°	1362.5	1359.5	1354.3	1350.5	1360.4	1336.5	1341.1	1332.0	1335.0
17.5°	1321.1	1326.7	1329.3	1326.0	1335.0	1313.3	1308.1	1308.1	1309.5
20°	1294.3	1306.2	1314.6	1305.7	1314.6	1297.7	1294.3	1281.7	1268.8
22.5°	1279.6	1277.2	1294.3	1276.4	1288.6	1267.6	1277.1	1255.3	1262.3
25°	1246.4	1236.4	1253.5	1243.5	1249.4	1232.5	1236.2	1209.6	1203.6
27.5°	1202.2	1202.2	1212.6	1208.4	1212.6	1199.0	1195.3	1171.0	1168.6
30°	1176.1	1168.2	1187.3	1178.5	1191.4	1159.5	1161.9	1142.4	1138.5
32.5°	1141.1	1144.3	1157.2	1145.9	1161.3	1131.0	1136.6	1106.8	1111.6
35°	1086.5	1092.5	1113.0	1098.0	1108.9	1091.0	1084.5	1065.0	1058.0
37.5°	1051.7	1042.5	1052.5	1053.4	1056.8	1037.1	1029.9	1006.3	1008.5
40°	1006.1	1004.1	1018.3	1022.4	1023.4	1004.5	998.9	970.4	969.4
42.5°	964.5	966.5	978.4	983.3	983.5	964.6	963.9	933.0	936.8
45°	919.5	916.5	926.6	925.7	927.7	907.8	907.3	877.8	878.8
47.5°	848.9	855.2	862.1	864.1	871.9	854.9	842.9	819.4	815.9
50°	806.5	818.4	819.7	829.0	831.9	811.0	801.4	781.9	775.9
52.5°	769.0	775.4	780.6	786.6	791.2	771.9	757.4	738.8	737.7
55°	712.8	708.8	725.0	723.1	728.1	713.1	698.6	678.0	668.0
57.5°	640.1	647.9	651.5	659.1	662.5	646.2	633.4	611.6	610.8
60°	593.7	604.6	605.9	619.1	616.1	602.1	588.6	569.0	561.1
62.5°	551.3	554.3	562.7	571.9	572.9	557.4	547.0	525.9	520.3
65°	479.6	485.6	492.9	505.1	504.1	493.1	469.4	458.1	450.1
67.5°	414.6	416.6	426.5	432.3	436.2	421.1	407.5	391.6	388.2
70°	370.7	368.7	380.8	385.0	389.0	377.0	363.5	349.1	340.1
72.5°	322.6	324.6	333.6	340.2	342.6	330.6	316.3	305.2	299.4
75°	260.7	258.7	267.8	271.9	270.9	261.9	247.4	240.1	232.2
77.5°	192.1	196.0	201.4	205.1	203.7	197.7	186.3	175.3	171.9
80°	149.7	153.7	159.9	161.8	158.9	152.9	145.6	135.3	130.3
82.5°	110.6	113.0	119.1	122.7	118.1	114.5	108.1	100.3	94.5
85°	56.0	58.0	64.2	66.1	62.1	62.1	56.0	48.8	44.8
87.5°	13.0	13.8	18.7	24.3	19.6	21.1	16.3	12.1	9.0
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	3.3	4.9	17.6	19.6	17.1	17.1
95°	5.1	5.1	7.1	22.4	21.4	36.3	50.9	47.9	47.9
97.5°	10.4	11.4	16.3	66.2	49.9	48.5	68.8	76.6	78.0
100°	15.3	16.3	24.4	108.2	74.3	63.4	75.4	89.7	92.7
102.5°	21.0	22.8	39.1	170.2	104.5	74.4	85.9	98.7	102.4
105°	31.6	34.6	80.4	285.3	157.8	97.1	107.9	113.1	116.1
107.5°	46.8	59.0	216.7	400.9	224.0	128.2	139.7	139.0	141.5
110°	63.1	88.0	374.7	464.1	272.9	152.4	152.7	160.8	157.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	104.7	175.0	558.8	524.9	321.8	181.4	165.0	182.9	183.9
115°	287.2	493.3	763.7	610.1	394.1	232.8	187.4	204.8	211.8
117.5°	712.0	858.2	868.6	685.8	466.2	290.1	213.0	220.8	229.9
120°	965.3	995.2	917.5	732.3	514.2	331.0	234.2	231.4	241.3
122.5°	1064.7	1054.0	957.4	775.6	561.5	374.3	260.3	244.3	251.1
125°	1144.6	1116.7	1007.1	835.4	630.3	439.2	309.6	265.8	265.8
127.5°	1192.2	1159.8	1052.7	888.6	692.4	504.7	368.8	300.6	291.2
130°	1219.9	1185.1	1080.4	925.3	733.2	547.0	410.4	330.6	315.7
132.5°	1241.1	1209.4	1106.5	954.1	773.1	588.5	451.9	367.9	343.4
135°	1266.8	1239.9	1146.6	998.2	828.9	650.7	514.2	432.2	407.3
137.5°	1283.3	1262.3	1182.6	1034.4	880.6	712.4	577.2	494.8	472.3
140°	1292.2	1275.3	1200.6	1055.8	912.4	752.1	621.2	537.2	516.3
142.5°	1301.2	1287.4	1213.6	1079.6	943.3	791.8	664.3	580.3	557.8
145°	1319.7	1303.8	1235.2	1108.2	987.7	847.4	731.1	643.1	623.2
147.5°	1332.7	1313.6	1252.9	1139.0	1029.7	897.7	792.4	707.5	687.8
150°	1336.0	1316.1	1262.7	1155.5	1055.0	928.5	829.9	749.0	730.1
152.5°	1333.6	1318.4	1270.0	1169.5	1076.1	958.4	864.1	789.0	771.7
155°	1335.0	1321.0	1275.9	1188.4	1102.8	1000.3	915.4	848.9	830.9
157.5°	1328.9	1319.7	1280.0	1202.9	1127.5	1037.6	962.5	906.5	888.4
160°	1328.9	1314.9	1280.0	1211.3	1144.6	1061.9	991.8	941.6	926.6
162.5°	1319.9	1307.6	1279.2	1217.2	1160.9	1084.6	1019.5	972.6	961.7
165°	1303.4	1293.5	1274.9	1225.0	1181.2	1115.5	1059.0	1017.1	1010.1
167.5°	1290.6	1276.8	1266.8	1224.7	1195.1	1137.7	1092.4	1057.7	1053.7
170°	1275.9	1267.0	1258.6	1222.5	1201.6	1153.8	1116.1	1081.3	1077.4
172.5°	1257.2	1252.2	1248.0	1221.0	1205.7	1167.4	1136.4	1104.9	1097.7
175°	1228.1	1232.0	1231.1	1217.7	1209.7	1184.8	1165.9	1143.3	1134.4
177.5°	1210.1	1208.5	1212.6	1210.1	1209.3	1194.2	1189.0	1173.6	1178.4
180°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6

(END OF REPORT)