

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: P511802

Luminaire Tested: **SQW-F-075U-100D-940-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511802
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

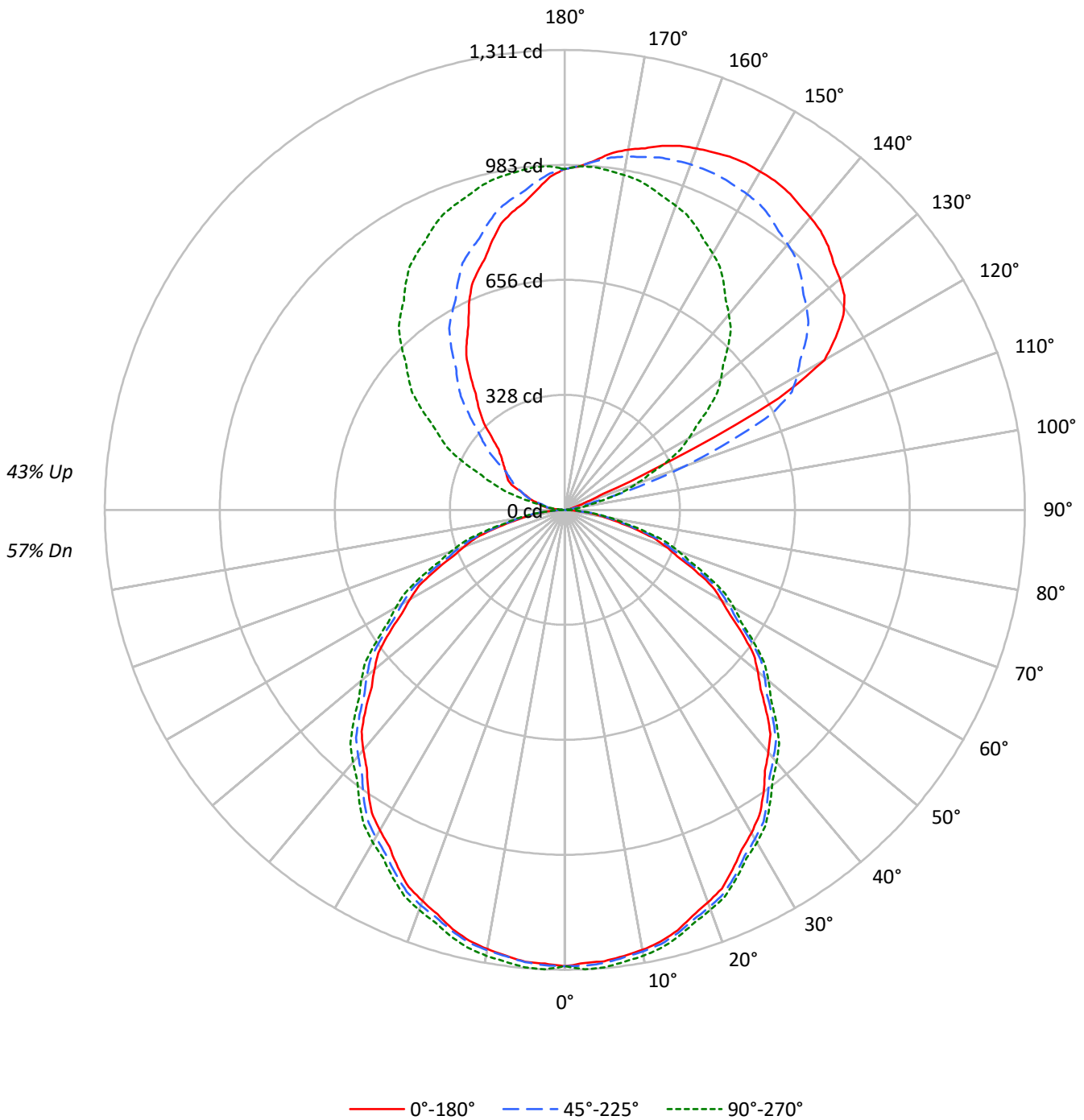
Lumens per Lamp: N/A
Luminaire Lumens: 6268.8 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.2
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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
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	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	99	95	91	87	92	88	85	82	76	74	71	65	63	62	55	54	52	48
2	90	83	77	71	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	82	73	65	59	76	68	61	56	59	54	50	50	47	43	43	40	37	34
4	75	64	56	50	70	60	53	47	52	47	42	45	41	37	38	35	32	29
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	31	28	25
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	25	22
7	59	46	38	33	55	43	36	31	38	32	28	33	28	25	28	25	22	19
8	55	42	34	29	51	40	32	27	35	29	25	30	26	22	26	22	19	17
9	51	38	31	26	47	36	29	24	32	26	22	28	23	20	24	20	18	15
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	42015	42015	42015
5°	41864	42435	41919
10°	41768	42319	41683
15°	41495	42056	41347
20°	40928	41715	40777
25°	40301	41274	40084
30°	39648	40830	39320
35°	38897	40213	38514
40°	38027	39587	37656
45°	37091	38863	36648
50°	36070	38060	35583
55°	34866	37000	34371
60°	33338	35902	32886
65°	31366	34460	30961
70°	28863	32517	28532
75°	25066	29457	25615
80°	20158	24417	21293
85°	11115	16636	14376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	2.0
10°-20°	350.7	5.6
20°-30°	525.6	8.4
30°-40°	625.0	10.0
40°-50°	639.8	10.2
50°-60°	570.3	9.1
60°-70°	425.1	6.8
70°-80°	232.3	3.7
80°-90°	55.0	0.9
90°-100°	24.5	0.4
100°-110°	113.6	1.8
110°-120°	331.2	5.3
120°-130°	481.2	7.7
130°-140°	514.9	8.2
140°-150°	492.6	7.9
150°-160°	406.2	6.5
160°-170°	265.7	4.2
170°-180°	92.1	1.5
0°-30°	999.3	15.9
0°-40°	1624.3	25.9
0°-60°	2834.4	45.2
0°-90°	3546.9	56.6
90°-120°	469.2	7.5
90°-150°	1958.0	31.2
90°-180°	2722.0	43.4
0°-180°	6268.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1301	1301	1301	1301	1301	
5°	1292	1297	1309	1294	1293	123
15°	1241	1248	1258	1243	1237	349
25°	1131	1150	1158	1144	1125	521
35°	987	1007	1020	1000	977	617
45°	812	837	851	827	802	626
55°	619	644	657	638	610	553
65°	410	431	451	427	405	406
75°	201	217	236	218	205	215
85°	30	41	45	46	39	44
90°	2	2	1	4	7	1
95°	7	9	18	30	27	8
105°	30	88	126	80	87	37
115°	333	656	315	151	166	391
125°	970	838	497	230	210	857
135°	1062	950	657	387	297	819
145°	1108	1020	790	563	470	694
155°	1111	1048	888	720	646	513
165°	1074	1040	950	846	796	305
175°	1000	998	981	939	915	97
180°	971	971	971	971	971	



TEST NUMBER: P511802

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1292.7	1298.9	1300.4	1299.3	1311.0	1300.0	1299.7	1298.9	1294.8
5°	1291.5	1293.2	1296.7	1294.4	1309.1	1294.4	1294.1	1292.4	1293.2
7.5°	1283.0	1284.7	1286.7	1284.4	1299.0	1284.0	1283.9	1280.9	1281.8
10°	1273.8	1275.6	1278.2	1275.9	1290.6	1274.2	1274.7	1270.3	1271.2
12.5°	1261.2	1262.9	1267.7	1264.6	1278.6	1262.9	1263.4	1258.3	1258.5
15°	1241.2	1243.8	1248.3	1243.3	1258.0	1242.5	1243.0	1237.7	1236.8
17.5°	1212.9	1218.0	1223.4	1219.2	1232.3	1217.4	1218.2	1210.0	1207.8
20°	1191.0	1196.2	1205.1	1200.2	1213.9	1198.4	1199.8	1187.5	1186.6
22.5°	1169.2	1173.0	1184.0	1179.0	1192.8	1177.3	1178.0	1163.5	1163.4
25°	1131.1	1136.3	1149.6	1145.5	1158.4	1142.9	1143.5	1127.5	1125.0
27.5°	1092.2	1097.5	1111.0	1107.1	1120.4	1104.5	1105.6	1087.8	1082.7
30°	1063.3	1069.3	1083.6	1080.4	1095.0	1077.8	1077.4	1059.7	1054.5
32.5°	1032.3	1039.7	1054.0	1052.1	1065.4	1048.9	1047.1	1029.3	1024.2
35°	986.7	994.4	1006.9	1008.1	1020.1	1004.6	999.9	983.0	977.0
37.5°	937.3	944.6	958.1	960.5	972.2	956.0	949.3	934.0	927.1
40°	902.1	910.7	925.0	928.7	939.1	923.6	916.2	900.2	893.3
42.5°	867.5	876.2	891.2	897.0	904.5	889.7	880.9	865.6	857.3
45°	812.2	820.8	836.9	845.0	851.0	837.2	827.2	811.1	802.5
47.5°	756.0	765.5	781.7	791.7	795.7	783.1	773.8	756.0	746.3
50°	718.0	727.4	744.4	755.0	757.6	746.4	736.5	718.6	708.3
52.5°	679.2	687.3	704.2	716.2	717.4	708.3	697.7	679.9	670.2
55°	619.3	627.9	644.0	658.0	657.2	651.2	637.8	620.0	610.5
57.5°	557.8	564.7	581.4	596.4	596.7	589.9	577.0	559.4	550.1
60°	516.2	523.1	539.1	554.1	555.9	549.0	534.7	517.8	509.2
62.5°	474.6	480.9	496.1	512.6	514.3	507.4	492.4	476.2	467.6
65°	410.5	415.7	430.8	447.6	451.0	443.3	427.3	413.0	405.2
67.5°	347.3	352.3	366.3	383.0	387.4	378.7	364.2	350.6	343.0
70°	305.7	310.0	323.3	339.3	344.4	335.0	323.3	309.1	302.2
72.5°	263.4	267.7	281.0	296.3	300.8	292.0	281.0	268.3	265.5
75°	200.9	205.2	216.7	232.6	236.1	228.3	218.5	207.0	205.3
77.5°	145.0	147.8	158.2	169.2	171.4	166.8	160.9	150.6	149.8
80°	108.4	111.8	121.6	130.4	131.3	128.7	124.2	115.4	114.5
82.5°	75.9	78.7	87.0	95.1	93.9	94.1	91.1	83.0	82.8
85°	30.0	32.5	41.4	48.4	44.9	47.5	45.8	39.6	38.8
87.5°	3.2	3.9	7.4	14.2	12.9	15.1	13.4	10.4	10.6
90°	1.8	1.8	1.8	0.9	0.9	1.8	3.7	6.4	7.3
92.5°	3.3	4.0	4.0	4.6	5.3	10.5	7.3	8.6	8.8
95°	7.3	7.3	9.1	21.8	18.3	27.2	30.1	28.3	27.4
97.5°	12.1	12.9	17.7	57.3	41.1	36.4	49.7	53.1	49.9
100°	16.4	17.3	26.5	90.6	59.3	46.8	54.8	64.9	66.7
102.5°	21.5	23.2	41.1	139.7	83.4	59.5	62.8	72.2	74.7
105°	30.1	34.6	87.6	231.3	126.0	78.7	80.3	83.2	86.7
107.5°	46.7	62.8	222.6	328.4	178.4	103.2	106.8	104.3	104.4
110°	65.7	99.7	364.3	384.2	216.4	122.6	121.4	119.5	116.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	119.1	208.7	507.5	433.7	256.6	143.5	133.1	141.4	135.9
115°	333.3	505.5	655.5	501.6	315.0	179.3	150.6	162.6	166.2
117.5°	687.3	765.3	729.3	561.9	370.9	221.1	167.4	176.0	181.9
120°	854.6	851.9	765.1	599.2	408.1	251.9	179.9	185.4	189.9
122.5°	915.9	890.4	795.1	632.8	443.9	284.8	196.7	193.5	198.7
125°	969.6	934.8	838.1	678.8	496.7	335.1	230.1	206.4	210.0
127.5°	1004.5	966.3	875.0	721.0	547.8	388.4	274.3	226.9	222.6
130°	1023.5	986.0	898.4	746.7	580.7	422.7	304.9	247.2	236.5
132.5°	1039.6	1004.2	920.3	771.7	612.8	457.7	337.8	272.6	256.9
135°	1061.8	1027.9	950.4	808.2	657.4	508.3	387.1	319.0	296.7
137.5°	1078.8	1047.9	974.2	841.0	700.6	558.2	438.8	370.3	347.5
140°	1088.3	1058.9	988.8	861.6	727.7	590.2	473.9	404.0	382.6
142.5°	1097.1	1068.3	1001.2	880.0	753.2	620.8	509.6	438.3	416.9
145°	1107.5	1079.8	1019.8	906.7	789.8	666.6	563.3	490.7	470.2
147.5°	1112.4	1086.9	1033.2	930.5	822.4	708.9	613.2	543.5	522.8
150°	1113.9	1089.8	1039.0	944.5	843.6	736.5	644.6	579.3	557.9
152.5°	1114.6	1089.8	1043.4	956.4	862.6	761.2	675.3	613.6	593.6
155°	1111.1	1088.8	1048.1	970.5	888.4	796.4	719.5	663.4	645.5
157.5°	1103.1	1086.7	1048.9	982.4	909.9	829.4	761.5	710.1	693.3
160°	1096.5	1082.2	1048.1	989.1	923.1	849.0	787.0	740.1	724.0
162.5°	1087.8	1073.5	1044.5	992.2	934.7	867.1	811.1	766.5	753.2
165°	1073.7	1060.3	1039.9	996.9	950.4	894.2	845.5	806.9	796.2
167.5°	1055.8	1047.4	1029.9	998.8	963.0	917.5	876.9	845.4	836.3
170°	1042.7	1036.4	1022.6	998.2	969.6	931.2	896.6	868.1	861.9
172.5°	1025.9	1022.5	1013.1	995.4	974.7	943.5	914.1	889.3	883.1
175°	999.8	1001.5	997.9	991.3	980.6	959.2	938.6	921.1	914.8
177.5°	980.2	980.2	980.9	981.6	980.2	970.9	960.5	950.3	951.0
180°	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4

(END OF REPORT)