

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: P522393

Luminaire Tested: **SQW-F-075U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522393
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

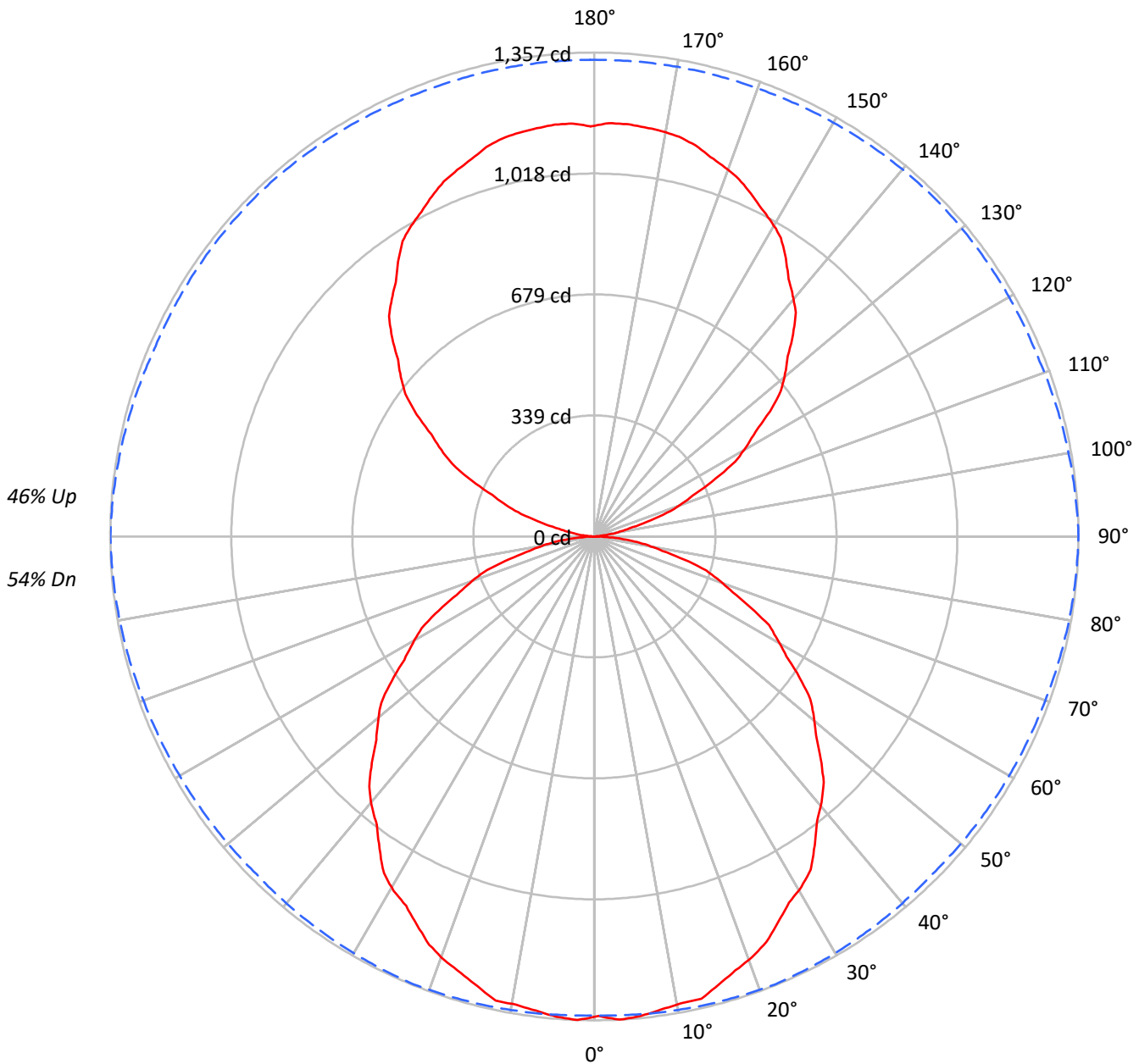
Lumens per Lamp: N/A
Luminaire Lumens: 6971.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 70.3
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				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	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°	21727	21727	21727
5°	21985	21906	21574
10°	21759	21838	21535
15°	21840	21809	21401
20°	21326	21661	20907
25°	21294	21346	20564
30°	21028	21302	20355
35°	20538	20962	20000
40°	20335	20687	19595
45°	20135	20315	19244
50°	19427	20042	18691
55°	19243	19654	18033
60°	18384	19078	17376
65°	17574	18468	16489
70°	16782	17608	15399
75°	15596	16207	13893
80°	13352	14161	11623
85°	9948	11041	7966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	1.8
10°-20°	364.2	5.2
20°-30°	546.8	7.8
30°-40°	653.7	9.4
40°-50°	672.7	9.6
50°-60°	605.5	8.7
60°-70°	459.9	6.6
70°-80°	262.4	3.8
80°-90°	68.7	1.0
90°-100°	30.2	0.4
100°-110°	130.9	1.9
110°-120°	373.4	5.4
120°-130°	567.7	8.1
130°-140°	614.1	8.8
140°-150°	586.7	8.4
150°-160°	482.6	6.9
160°-170°	315.3	4.5
170°-180°	109.1	1.6
0°-30°	1038.5	14.9
0°-40°	1692.1	24.3
0°-60°	2970.3	42.6
0°-90°	3761.3	54.0
90°-120°	534.6	7.7
90°-150°	2303.1	33.0
90°-180°	3210.0	46.0
0°-180°	6971.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1346	1346	1346	1346	1346	
5°	1356	1346	1352	1328	1331	128
15°	1307	1299	1305	1286	1280	365
25°	1195	1202	1198	1186	1154	549
35°	1042	1067	1064	1040	1015	656
45°	882	889	890	870	843	674
55°	684	695	698	670	641	605
65°	460	473	483	450	432	457
75°	250	257	260	237	223	262
85°	54	62	60	54	43	65
90°	0	0	0	0	0	2
95°	5	7	20	49	46	6
105°	30	77	151	104	111	35
115°	275	732	378	180	203	379
125°	1098	966	604	297	255	965
135°	1215	1100	795	493	391	936
145°	1266	1185	947	701	598	793
155°	1280	1224	1058	878	797	592
165°	1250	1223	1133	1016	969	355
175°	1178	1181	1160	1118	1088	114
180°	1150	1150	1150	1150	1150	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1344.1	1354.8	1340.2	1344.4	1357.4	1341.4	1345.7	1337.9	1337.1
5°	1356.5	1340.2	1345.7	1338.2	1351.6	1339.2	1328.1	1342.5	1331.1
7.5°	1333.4	1322.9	1344.3	1333.6	1340.6	1332.2	1333.4	1325.4	1325.2
10°	1327.2	1320.5	1327.2	1327.3	1332.0	1320.6	1319.3	1310.6	1313.5
12.5°	1309.2	1318.5	1308.4	1321.1	1331.3	1311.4	1303.7	1306.8	1311.9
15°	1306.6	1303.8	1298.8	1295.1	1304.7	1281.8	1286.1	1277.4	1280.3
17.5°	1267.0	1272.3	1274.8	1271.7	1280.3	1259.5	1254.5	1254.5	1255.9
20°	1241.2	1252.7	1260.7	1252.2	1260.7	1244.5	1241.2	1229.2	1216.8
22.5°	1227.2	1224.9	1241.2	1224.1	1235.7	1215.7	1224.8	1203.9	1210.6
25°	1195.3	1185.8	1202.2	1192.5	1198.2	1182.0	1185.6	1160.0	1154.3
27.5°	1152.9	1152.9	1162.9	1158.9	1162.9	1149.9	1146.3	1123.0	1120.7
30°	1127.9	1120.3	1138.7	1130.2	1142.6	1112.0	1114.3	1095.6	1091.8
32.5°	1094.3	1097.4	1109.8	1099.0	1113.7	1084.6	1090.0	1061.4	1066.0
35°	1042.0	1047.7	1067.4	1053.0	1063.5	1046.3	1040.0	1021.3	1014.7
37.5°	1008.6	999.8	1009.4	1010.2	1013.5	994.6	987.7	965.1	967.2
40°	964.8	962.9	976.6	980.5	981.5	963.3	958.0	930.6	929.7
42.5°	925.0	926.9	938.3	943.0	943.2	925.0	924.4	894.8	898.4
45°	881.8	879.0	888.7	887.7	889.7	870.6	870.1	841.8	842.8
47.5°	814.1	820.2	826.8	828.7	836.1	819.9	808.4	785.9	782.4
50°	773.4	784.9	786.1	795.0	797.9	777.8	768.6	749.9	744.1
52.5°	737.5	743.6	748.6	754.4	758.8	740.3	726.4	708.6	707.4
55°	683.6	679.8	695.3	693.5	698.2	683.9	669.9	650.2	640.6
57.5°	613.9	621.3	624.8	632.1	635.4	619.7	607.4	586.5	585.7
60°	569.3	579.8	581.1	593.7	590.8	577.5	564.5	545.7	538.1
62.5°	528.7	531.6	539.7	548.5	549.4	534.5	524.6	504.4	499.0
65°	460.0	465.7	472.7	484.4	483.4	472.9	450.2	439.3	431.6
67.5°	397.7	399.6	409.0	414.5	418.4	403.8	390.8	375.5	372.3
70°	355.5	353.6	365.2	369.2	373.0	361.6	348.6	334.8	326.2
72.5°	309.4	311.3	319.9	326.2	328.5	317.1	303.3	292.6	287.1
75°	250.0	248.1	256.8	260.7	259.8	251.2	237.3	230.3	222.7
77.5°	184.2	188.0	193.2	196.7	195.3	189.6	178.7	168.1	164.8
80°	143.6	147.4	153.3	155.2	152.3	146.6	139.6	129.8	125.0
82.5°	106.1	108.3	114.3	117.7	113.3	109.8	103.7	96.2	90.6
85°	53.7	55.6	61.5	63.4	59.6	59.6	53.7	46.8	43.0
87.5°	12.5	13.3	18.0	23.3	18.8	20.3	15.6	11.6	8.6
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	3.2	4.7	16.9	18.8	16.4	16.4
95°	4.9	4.9	6.8	21.5	20.5	34.8	48.8	45.9	45.9
97.5°	10.0	10.9	15.6	63.5	47.9	46.5	66.0	73.5	74.8
100°	14.6	15.6	23.4	103.8	71.3	60.8	72.3	86.0	88.9
102.5°	20.1	21.8	37.5	163.2	100.2	71.4	82.4	94.6	98.2
105°	30.3	33.1	77.1	273.6	151.4	93.1	103.5	108.5	111.3
107.5°	44.9	56.6	207.8	384.4	214.8	123.0	134.0	133.3	135.7
110°	60.5	84.4	359.4	445.1	261.7	146.2	146.5	154.2	151.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	100.4	167.8	535.9	503.4	308.6	174.0	158.2	175.4	176.4
115°	275.4	473.0	732.4	585.1	377.9	223.2	179.7	196.4	203.1
117.5°	682.8	823.0	833.0	657.7	447.1	278.3	204.3	211.7	220.5
120°	925.8	954.4	879.9	702.3	493.2	317.5	224.6	221.9	231.4
122.5°	1021.1	1010.8	918.2	743.8	538.5	359.0	249.6	234.3	240.8
125°	1097.7	1070.9	965.8	801.2	604.5	421.2	296.9	254.9	254.9
127.5°	1143.4	1112.2	1009.6	852.2	664.1	484.0	353.7	288.3	279.3
130°	1169.9	1136.5	1036.1	887.4	703.1	524.6	393.6	317.1	302.7
132.5°	1190.2	1159.9	1061.1	915.0	741.4	564.4	433.4	352.8	329.3
135°	1214.8	1189.1	1099.6	957.3	794.9	624.0	493.2	414.5	390.6
137.5°	1230.7	1210.6	1134.2	992.0	844.5	683.2	553.5	474.5	452.9
140°	1239.3	1223.0	1151.4	1012.5	875.0	721.3	595.7	515.2	495.1
142.5°	1247.9	1234.7	1163.9	1035.3	904.7	759.4	637.1	556.5	535.0
145°	1265.6	1250.4	1184.6	1062.8	947.3	812.6	701.2	616.8	597.7
147.5°	1278.1	1259.8	1201.6	1092.3	987.5	860.9	760.0	678.5	659.6
150°	1281.3	1262.2	1210.9	1108.2	1011.7	890.5	795.9	718.3	700.2
152.5°	1278.9	1264.4	1218.0	1121.6	1032.0	919.2	828.7	756.7	740.0
155°	1280.3	1266.9	1223.6	1139.7	1057.6	959.3	877.9	814.1	796.9
157.5°	1274.4	1265.6	1227.5	1153.6	1081.3	995.1	923.1	869.3	852.0
160°	1274.4	1261.1	1227.5	1161.6	1097.7	1018.4	951.2	903.0	888.7
162.5°	1265.8	1254.0	1226.8	1167.3	1113.3	1040.1	977.7	932.8	922.3
165°	1250.0	1240.5	1222.7	1174.8	1132.8	1069.8	1015.6	975.4	968.8
167.5°	1237.7	1224.5	1214.8	1174.6	1146.1	1091.1	1047.7	1014.4	1010.6
170°	1223.6	1215.0	1207.0	1172.4	1152.3	1106.5	1070.3	1037.0	1033.2
172.5°	1205.7	1200.9	1196.9	1171.0	1156.3	1119.6	1089.8	1059.6	1052.7
175°	1177.7	1181.6	1180.7	1167.8	1160.2	1136.3	1118.2	1096.5	1087.9
177.5°	1160.6	1159.0	1162.9	1160.5	1159.8	1145.3	1140.2	1125.5	1130.1
180°	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4	1150.4

(END OF REPORT)