

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: P511849

Luminaire Tested: **SQW-F-100U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511849
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-18,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-100U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

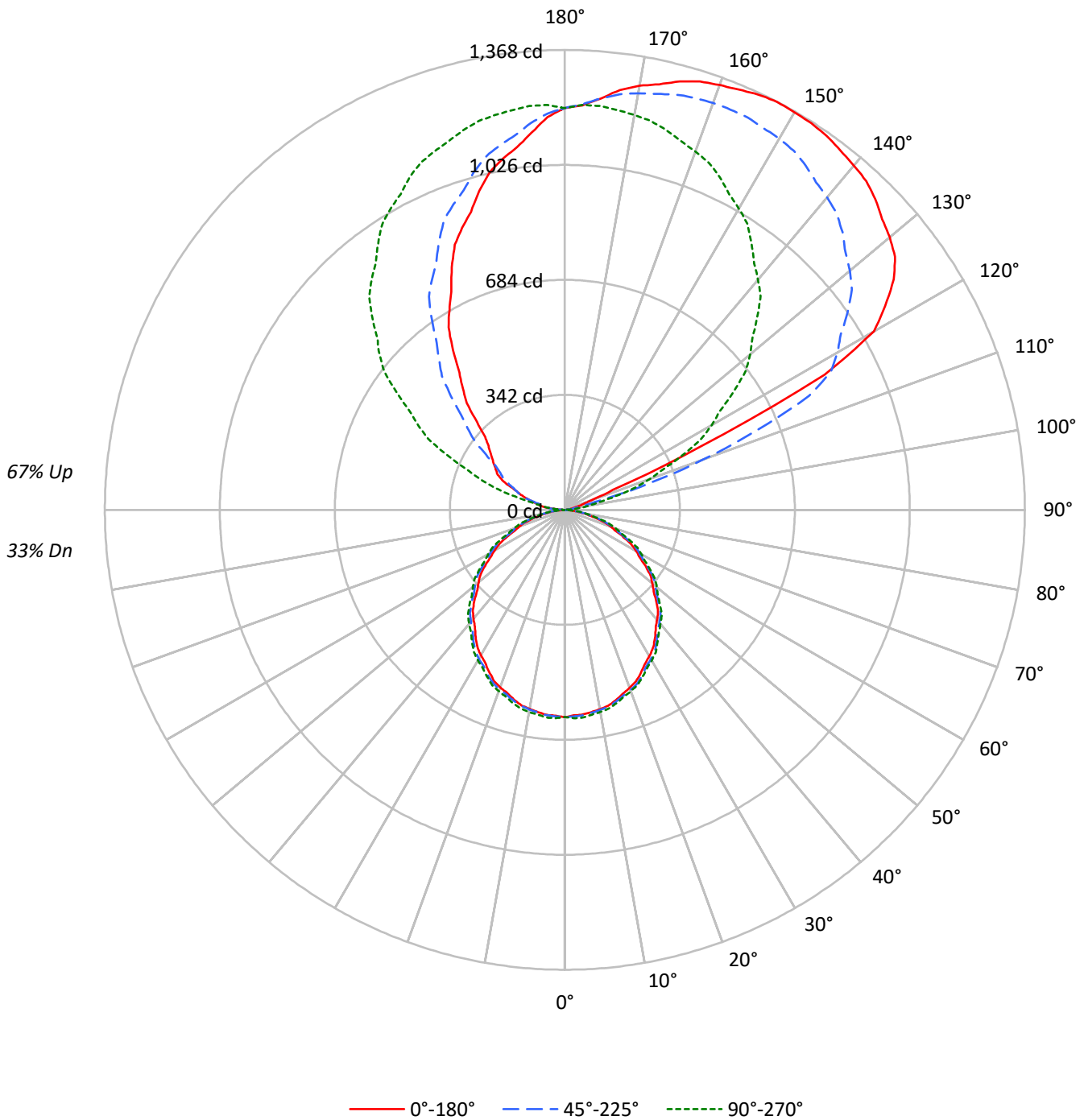
Lumens per Lamp: N/A
Luminaire Lumens: 5022.3 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	61	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	28	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19908	19908	19908
5°	19819	20094	19848
10°	19746	20022	19717
15°	19594	19905	19537
20°	19361	19735	19302
25°	19080	19500	18962
30°	18741	19278	18618
35°	18418	18950	18220
40°	17987	18666	17810
45°	17523	18331	17331
50°	17076	17920	16819
55°	16524	17475	16287
60°	15797	16940	15578
65°	14755	16107	14564
70°	13615	15210	13454
75°	11990	13787	11890
80°	9726	11604	9875
85°	5632	7818	6558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	1.2
10°-20°	165.9	3.3
20°-30°	248.6	4.9
30°-40°	295.4	5.9
40°-50°	302.3	6.0
50°-60°	269.6	5.4
60°-70°	200.0	4.0
70°-80°	109.5	2.2
80°-90°	26.5	0.5
90°-100°	29.4	0.6
100°-110°	138.8	2.8
110°-120°	407.7	8.1
120°-130°	592.8	11.8
130°-140°	634.2	12.6
140°-150°	604.5	12.0
150°-160°	498.8	9.9
160°-170°	326.7	6.5
170°-180°	113.3	2.3
0°-30°	472.7	9.4
0°-40°	768.0	15.3
0°-60°	1340.0	26.7
0°-90°	1676.1	33.4
90°-120°	575.9	11.5
90°-150°	2407.4	47.9
90°-180°	3346.0	66.6
0°-180°	5022.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	616	616	616	616	616	
5°	611	614	620	613	612	58
15°	586	590	595	588	584	165
25°	536	544	547	542	532	246
35°	467	476	481	474	462	292
45°	384	396	401	392	380	296
55°	294	304	310	303	289	262
65°	193	202	211	202	191	191
75°	96	103	110	103	95	102
85°	15	20	21	22	18	21
90°	2	2	2	3	7	2
95°	8	10	22	36	32	10
105°	37	104	154	98	105	46
115°	438	802	389	186	202	498
125°	1194	1028	612	285	263	1057
135°	1306	1167	810	478	370	1008
145°	1358	1250	968	690	579	851
155°	1363	1287	1092	884	796	630
165°	1319	1279	1169	1041	982	374
175°	1228	1228	1206	1155	1127	119
180°	1195	1195	1195	1195	1195	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5
2.5°	611.8	614.4	615.1	614.6	620.5	615.3	615.1	614.4	613.1
5°	611.4	612.3	614.0	612.4	619.9	612.4	613.1	611.5	612.3
7.5°	606.9	607.7	608.7	607.9	614.6	607.9	608.4	606.7	606.7
10°	602.2	603.0	604.7	603.2	610.6	603.2	603.0	601.3	601.3
12.5°	596.8	597.6	599.3	597.8	605.2	597.8	597.6	595.3	595.9
15°	586.1	588.6	590.3	588.0	595.4	588.0	587.8	586.1	584.4
17.5°	573.5	576.0	578.9	576.3	583.1	575.5	576.3	572.6	571.1
20°	563.4	565.8	570.1	566.9	574.3	566.1	567.6	562.5	561.7
22.5°	552.6	554.4	560.7	557.4	564.2	556.6	557.5	551.0	550.2
25°	535.5	537.2	544.0	541.6	547.3	539.9	542.3	533.0	532.2
27.5°	516.1	518.6	524.7	523.2	529.8	521.6	523.9	514.2	512.8
30°	502.6	505.1	511.9	510.4	517.0	508.7	511.1	500.1	499.3
32.5°	487.8	491.6	497.7	497.5	502.8	495.2	496.2	485.9	484.4
35°	467.2	469.7	475.7	475.8	480.7	474.1	474.0	463.8	462.2
37.5°	443.6	446.9	453.2	454.2	459.0	451.7	450.5	441.4	438.7
40°	426.7	430.0	437.7	438.6	442.8	436.2	434.3	425.8	422.5
42.5°	410.5	413.8	421.5	422.4	426.6	420.6	417.5	409.6	405.0
45°	383.7	387.9	395.5	398.1	401.4	395.7	392.2	382.8	379.5
47.5°	358.1	361.4	369.2	373.5	375.0	371.0	366.5	356.5	353.0
50°	339.9	343.2	351.7	355.9	356.7	353.4	348.3	338.9	334.8
52.5°	321.0	324.3	333.5	337.7	338.5	335.2	330.1	320.7	316.6
55°	293.5	296.8	303.6	310.4	310.4	308.7	302.8	292.6	289.3
57.5°	264.1	267.3	275.8	281.7	281.8	279.5	273.4	264.1	260.8
60°	244.6	247.0	255.5	261.5	262.3	260.6	253.9	244.5	241.2
62.5°	223.0	226.1	234.6	241.2	242.7	240.4	232.9	224.2	219.6
65°	193.1	194.8	202.4	209.2	210.8	208.4	201.6	193.1	190.6
67.5°	163.8	164.8	172.0	178.8	180.6	178.0	171.2	165.4	161.4
70°	144.2	145.9	151.8	158.6	161.1	157.8	151.0	145.8	142.5
72.5°	124.6	126.3	132.2	138.4	140.8	138.2	132.1	126.9	123.6
75°	96.1	97.0	102.9	108.8	110.5	108.0	102.9	98.6	95.3
77.5°	69.2	70.0	76.2	79.8	81.3	79.8	75.7	71.6	69.3
80°	52.3	53.1	57.3	61.6	62.4	61.6	58.2	54.8	53.1
82.5°	36.1	36.9	41.8	44.7	44.9	45.4	42.7	39.9	37.6
85°	15.2	16.0	20.2	22.7	21.1	23.6	21.9	19.4	17.7
87.5°	2.5	2.5	4.5	6.4	6.4	7.2	6.1	5.9	4.7
90°	2.5	2.5	2.5	1.7	1.7	2.5	3.3	5.8	6.7
92.5°	4.5	4.5	4.5	5.7	6.3	13.0	8.7	9.8	9.3
95°	8.3	9.1	10.0	25.7	22.5	33.0	35.8	34.1	31.6
97.5°	14.6	15.5	20.8	70.4	49.8	44.9	58.6	62.0	58.7
100°	20.0	20.8	30.8	113.9	72.4	57.7	66.6	77.4	77.4
102.5°	26.0	27.4	48.8	171.8	101.7	72.7	76.6	86.8	89.4
105°	37.4	41.5	104.0	290.6	153.9	97.0	98.2	102.4	104.8
107.5°	58.4	75.0	268.8	402.6	219.5	126.8	129.5	128.0	126.8
110°	82.4	119.8	441.8	471.4	268.8	150.0	148.1	147.2	144.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	154.3	256.1	619.6	531.7	317.4	175.8	162.8	172.5	168.1
115°	438.5	624.0	802.2	615.6	388.6	221.0	185.6	198.9	202.2
117.5°	870.6	941.7	892.2	686.6	458.2	273.0	206.4	218.7	225.0
120°	1060.9	1045.5	936.1	734.5	503.4	309.8	223.0	230.6	236.3
122.5°	1129.5	1093.2	972.7	775.8	546.7	349.8	244.3	241.3	248.3
125°	1194.1	1146.9	1027.7	832.1	612.4	413.9	285.4	258.1	262.9
127.5°	1237.5	1188.2	1075.9	886.6	677.2	479.8	339.2	284.6	279.6
130°	1261.5	1213.5	1105.9	917.5	719.8	523.7	377.8	308.4	296.2
132.5°	1280.1	1236.0	1131.8	950.8	756.4	565.5	417.7	339.6	321.5
135°	1306.4	1264.9	1167.4	995.1	809.6	627.4	478.5	395.5	369.5
137.5°	1326.5	1287.8	1195.9	1033.7	861.7	687.5	540.4	458.0	431.2
140°	1337.2	1299.8	1213.2	1057.2	893.7	725.3	581.6	498.7	471.8
142.5°	1346.5	1310.4	1227.9	1080.0	924.3	762.4	625.6	540.0	514.4
145°	1358.0	1323.8	1249.8	1112.6	967.7	817.2	689.8	602.7	579.1
147.5°	1363.5	1332.9	1266.8	1141.3	1009.8	869.6	751.9	668.6	643.2
150°	1365.5	1336.2	1274.8	1158.8	1035.1	903.3	790.5	712.5	686.5
152.5°	1367.5	1336.9	1280.1	1173.6	1058.4	934.4	828.4	754.5	731.1
155°	1363.0	1336.1	1287.3	1191.8	1091.7	978.6	883.7	815.8	795.5
157.5°	1352.7	1334.6	1288.8	1206.5	1118.2	1018.8	935.6	874.1	854.1
160°	1344.7	1329.2	1288.1	1214.7	1134.2	1043.9	966.9	910.7	892.0
162.5°	1336.0	1319.9	1284.8	1220.3	1149.5	1067.6	997.5	943.4	928.6
165°	1318.9	1304.2	1278.9	1226.1	1169.1	1100.0	1041.0	994.1	981.9
167.5°	1296.6	1287.5	1266.8	1227.9	1184.4	1128.3	1077.9	1040.4	1029.7
170°	1280.6	1274.1	1258.1	1227.4	1192.4	1146.0	1102.5	1069.1	1060.9
172.5°	1260.0	1257.4	1246.8	1224.9	1199.1	1160.5	1123.8	1095.1	1087.6
175°	1228.2	1231.4	1228.2	1218.7	1205.7	1179.7	1155.0	1132.4	1126.7
177.5°	1204.2	1205.5	1207.6	1207.5	1205.6	1193.8	1180.3	1168.3	1169.6
180°	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9

(END OF REPORT)