

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: P511855

Luminaire Tested: **SQW-F-100U-075D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511855
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-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

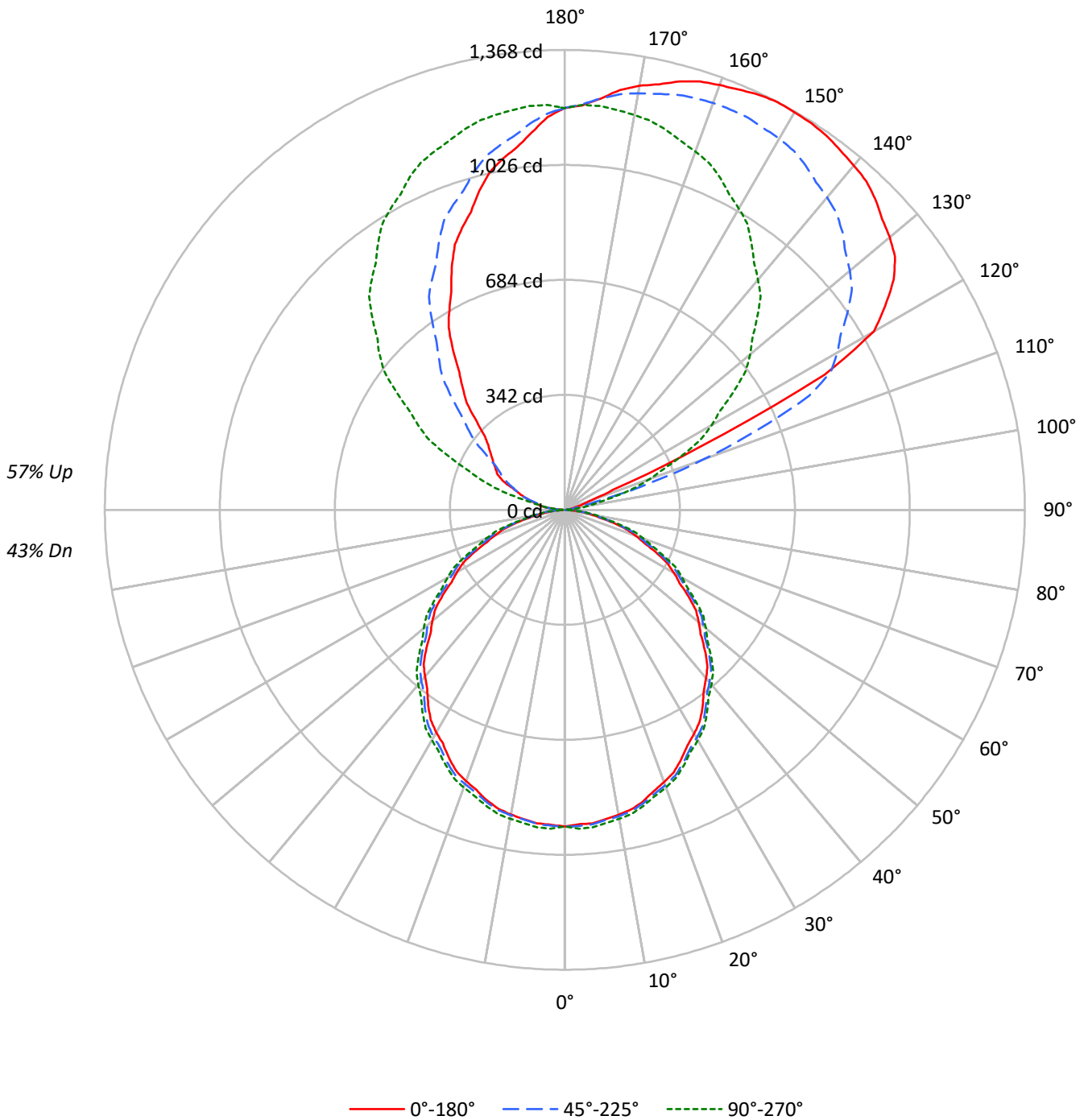
Lumens per Lamp: N/A
Luminaire Lumens: 5913.5 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 54.2
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	37
2	88	80	74	69	80	74	68	64	61	57	54	50	47	44	39	37	35	30
3	80	70	63	57	73	65	58	53	54	49	45	44	40	38	34	32	30	26
4	73	62	54	48	66	57	50	45	48	43	38	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	39	43	37	33	35	31	28	28	25	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	28	24	21	23	20	17	15
8	53	40	33	28	48	37	31	26	32	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	21	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30419	30419	30419
5°	30344	30726	30344
10°	30196	30613	30170
15°	30028	30422	29914
20°	29619	30199	29502
25°	29178	29869	29028
30°	28678	29498	28491
35°	28158	29057	27926
40°	27552	28585	27269
45°	26885	28076	26574
50°	26098	27495	25802
55°	25261	26782	24929
60°	24180	25982	23909
65°	22747	24940	22556
70°	21017	23490	20866
75°	18303	21048	18303
80°	14747	17573	15212
85°	8448	11856	10004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.5
10°-20°	253.8	4.3
20°-30°	380.3	6.4
30°-40°	452.1	7.6
40°-50°	462.8	7.8
50°-60°	412.7	7.0
60°-70°	308.3	5.2
70°-80°	168.1	2.8
80°-90°	40.1	0.7
90°-100°	29.4	0.5
100°-110°	138.8	2.3
110°-120°	407.7	6.9
120°-130°	592.8	10.0
130°-140°	634.2	10.7
140°-150°	604.5	10.2
150°-160°	498.8	8.4
160°-170°	326.7	5.5
170°-180°	113.3	1.9
0°-30°	723.1	12.2
0°-40°	1175.2	19.9
0°-60°	2050.7	34.7
0°-90°	2567.3	43.4
90°-120°	575.9	9.7
90°-150°	2407.4	40.7
90°-180°	3346.0	56.6
0°-180°	5913.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	942	942	942	942	942	
5°	936	939	948	937	936	89
15°	898	903	910	900	895	253
25°	819	832	838	828	815	377
35°	714	729	737	724	708	446
45°	589	606	615	600	582	454
55°	449	466	476	461	443	400
65°	298	313	326	311	295	295
75°	147	158	169	159	147	157
85°	23	30	32	33	27	33
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	



TEST NUMBER: P511855

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	942.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0
2.5°	936.0	940.6	941.4	940.2	949.4	940.9	940.7	940.6	937.3
5°	936.1	936.1	938.7	937.2	947.9	937.2	937.0	935.3	936.1
7.5°	928.4	929.4	931.2	929.6	939.7	928.8	929.4	926.9	928.2
10°	920.9	922.6	925.2	922.9	933.6	922.0	922.6	920.1	920.1
12.5°	912.8	914.5	917.7	914.8	925.5	914.6	914.5	911.3	911.3
15°	898.2	899.8	903.2	900.1	910.0	898.4	899.9	895.6	894.8
17.5°	877.4	880.9	885.4	882.2	892.3	880.6	881.3	875.5	874.1
20°	861.9	866.0	871.2	868.1	878.8	866.4	867.8	859.4	858.5
22.5°	845.7	849.2	856.3	853.2	863.3	851.5	853.0	841.8	841.7
25°	818.9	822.2	831.5	829.2	838.3	826.8	828.2	815.5	814.7
27.5°	790.1	794.3	803.7	801.6	810.6	798.3	799.7	786.0	784.3
30°	769.1	774.1	783.5	782.0	791.1	778.7	780.1	765.7	764.1
32.5°	746.9	753.1	762.6	761.7	770.2	758.4	757.8	744.1	741.8
35°	714.3	719.3	728.7	729.7	737.1	726.4	724.4	710.9	708.4
37.5°	678.6	683.7	693.1	695.2	701.7	691.1	688.0	674.5	671.8
40°	653.6	659.4	668.8	672.3	678.1	668.2	663.7	650.2	646.9
42.5°	628.0	634.4	644.5	648.0	653.1	643.2	638.1	625.2	621.2
45°	588.7	595.3	606.4	610.7	614.8	605.7	599.6	586.0	581.9
47.5°	547.8	554.4	565.9	571.2	574.3	566.9	559.8	546.2	541.3
50°	519.5	526.1	538.9	544.9	547.3	539.9	532.2	518.6	513.6
52.5°	491.8	497.8	510.6	517.2	519.0	512.9	504.5	491.5	485.9
55°	448.7	454.4	466.4	474.0	475.7	470.7	461.3	447.7	442.8
57.5°	404.1	409.9	421.7	430.2	432.0	427.0	416.8	404.9	399.2
60°	374.4	380.2	391.3	399.8	402.3	397.3	387.1	375.2	370.2
62.5°	344.1	348.5	360.3	368.8	372.6	368.3	357.4	344.2	339.9
65°	297.7	302.7	312.9	323.1	326.4	323.1	311.2	299.3	295.2
67.5°	253.0	256.3	265.7	275.7	279.8	276.2	265.5	253.3	250.6
70°	222.6	225.9	235.3	244.7	248.8	243.8	234.5	224.3	221.0
72.5°	190.9	194.2	202.9	212.3	215.7	210.8	202.7	193.9	189.9
75°	146.7	150.0	157.7	165.4	168.7	165.4	158.6	150.9	146.7
77.5°	105.6	108.7	115.4	122.0	123.5	121.3	116.6	109.9	106.8
80°	79.3	81.7	87.7	93.6	94.5	93.6	90.2	84.3	81.8
82.5°	55.7	57.5	63.4	68.0	67.5	69.3	66.0	60.7	58.9
85°	22.8	24.4	29.5	34.5	32.0	36.2	32.9	29.5	27.0
87.5°	3.2	3.2	5.9	9.8	9.1	11.9	9.4	7.9	6.7
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)