

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: P511854

Luminaire Tested: **SQW-F-100U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511854  
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-930-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

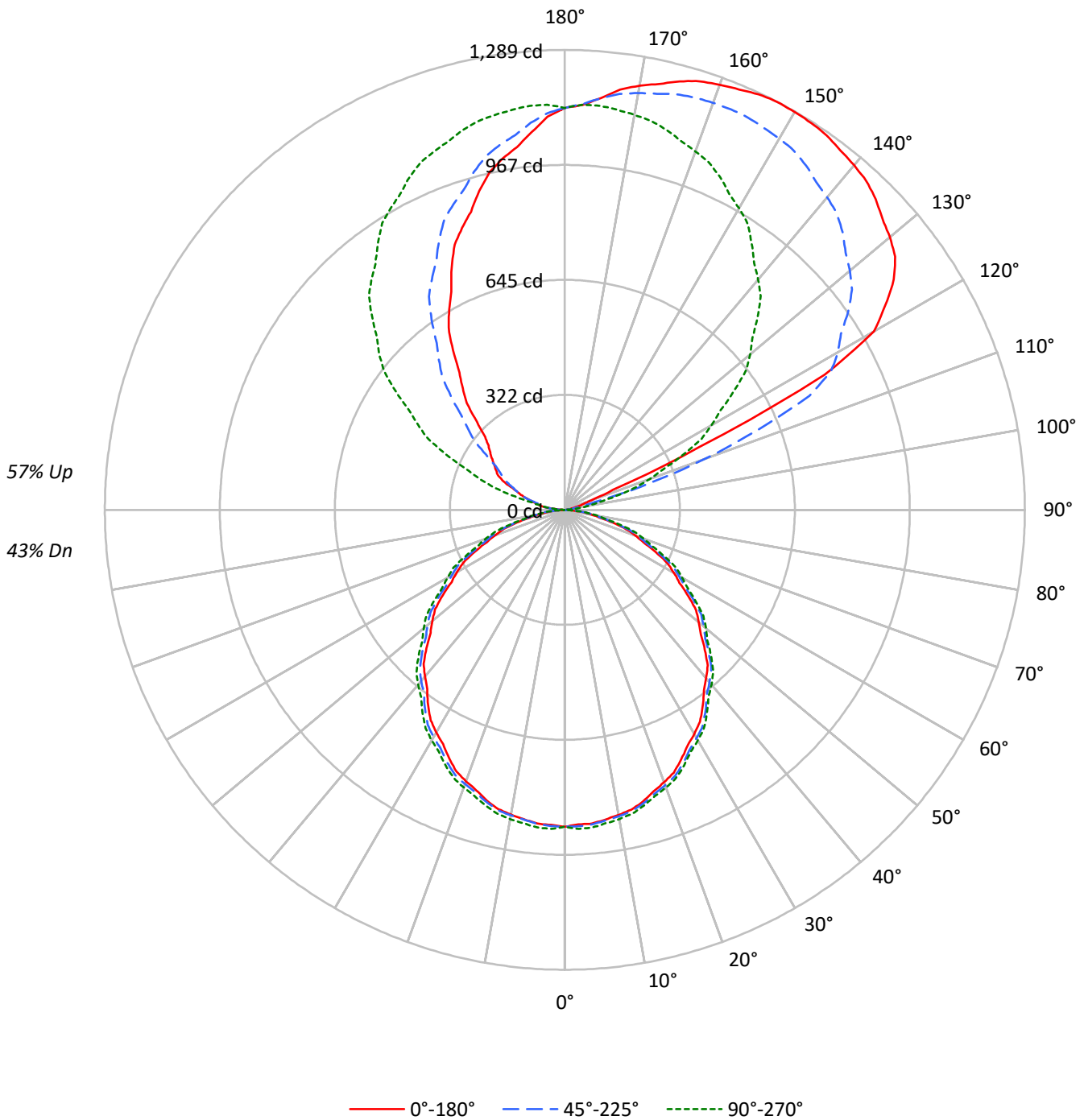
Lumens per Lamp: N/A  
Luminaire Lumens: 5575.1 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: General Diffuse

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°	28678	28678	28678
5°	28610	28969	28610
10°	28468	28862	28442
15°	28309	28680	28202
20°	27924	28471	27814
25°	27506	28159	27368
30°	27037	27809	26862
35°	26546	27394	26329
40°	25975	26949	25706
45°	25346	26469	25053
50°	24606	25922	24325
55°	23815	25245	23499
60°	22798	24497	22540
65°	21448	23511	21265
70°	19818	22150	19667
75°	17255	19838	17255
80°	13891	16569	14338
85°	7966	11189	9411



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	1.5
10°-20°	239.2	4.3
20°-30°	358.5	6.4
30°-40°	426.3	7.6
40°-50°	436.3	7.8
50°-60°	389.1	7.0
60°-70°	290.7	5.2
70°-80°	158.5	2.8
80°-90°	37.8	0.7
90°-100°	27.7	0.5
100°-110°	130.8	2.3
110°-120°	384.4	6.9
120°-130°	558.8	10.0
130°-140°	597.9	10.7
140°-150°	569.9	10.2
150°-160°	470.3	8.4
160°-170°	308.0	5.5
170°-180°	106.8	1.9
0°-30°	681.7	12.2
0°-40°	1108.0	19.9
0°-60°	1933.4	34.7
0°-90°	2420.4	43.4
90°-120°	542.9	9.7
90°-150°	2269.6	40.7
90°-180°	3155.0	56.6
0°-180°	5575.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	888	888	888	888	888	
5°	883	885	894	883	883	84
15°	847	852	858	848	844	238
25°	772	784	790	781	768	355
35°	673	687	695	683	668	421
45°	555	572	580	565	549	428
55°	423	440	448	435	417	378
65°	281	295	308	293	278	278
75°	138	149	159	150	138	148
85°	22	28	30	31	25	31
90°	2	2	2	3	6	2
95°	8	9	21	34	30	9
105°	35	98	145	93	99	43
115°	413	756	366	175	191	469
125°	1126	969	577	269	248	997
135°	1232	1101	763	451	348	951
145°	1280	1178	912	650	546	802
155°	1285	1214	1029	833	750	594
165°	1243	1206	1102	981	926	353
175°	1158	1158	1137	1089	1062	112
180°	1126	1126	1126	1126	1126	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1
2.5°	882.4	886.7	887.5	886.4	895.1	887.0	886.8	886.8	883.7
5°	882.6	882.6	884.9	883.6	893.7	883.6	883.4	881.8	882.6
7.5°	875.2	876.2	877.9	876.4	885.9	875.6	876.2	873.8	875.1
10°	868.2	869.8	872.2	870.1	880.2	869.3	869.8	867.4	867.4
12.5°	860.6	862.2	865.2	862.4	872.5	862.3	862.2	859.2	859.2
15°	846.8	848.3	851.5	848.6	857.9	847.0	848.4	844.4	843.6
17.5°	827.2	830.5	834.7	831.7	841.2	830.2	830.9	825.4	824.0
20°	812.6	816.5	821.3	818.4	828.5	816.8	818.2	810.2	809.4
22.5°	797.3	800.6	807.3	804.4	813.9	802.8	804.2	793.7	793.5
25°	772.0	775.1	784.0	781.8	790.3	779.4	780.8	768.8	768.1
27.5°	744.8	748.9	757.7	755.7	764.2	752.6	753.9	741.0	739.4
30°	725.1	729.8	738.6	737.2	745.8	734.1	735.5	721.9	720.4
32.5°	704.1	710.0	718.9	718.2	726.1	715.0	714.5	701.5	699.4
35°	673.4	678.1	687.0	687.9	694.9	684.8	683.0	670.2	667.9
37.5°	639.7	644.6	653.4	655.5	661.5	651.6	648.6	635.9	633.4
40°	616.2	621.6	630.5	633.8	639.3	629.9	625.7	612.9	609.8
42.5°	592.0	598.1	607.6	610.9	615.7	606.4	601.6	589.4	585.7
45°	555.0	561.2	571.7	575.7	579.6	571.1	565.3	552.5	548.6
47.5°	516.5	522.7	533.5	538.5	541.5	534.5	527.8	515.0	510.3
50°	489.8	496.0	508.1	513.7	516.0	509.0	501.7	488.9	484.2
52.5°	463.7	469.3	481.4	487.6	489.3	483.5	475.6	463.4	458.1
55°	423.0	428.4	439.7	446.9	448.4	443.8	434.9	422.1	417.4
57.5°	381.0	386.5	397.5	405.5	407.2	402.6	392.9	381.7	376.4
60°	353.0	358.5	368.9	376.9	379.3	374.6	364.9	353.7	349.0
62.5°	324.4	328.6	339.7	347.7	351.3	347.2	337.0	324.5	320.4
65°	280.7	285.3	295.0	304.6	307.7	304.6	293.4	282.2	278.3
67.5°	238.5	241.6	250.5	259.9	263.8	260.4	250.3	238.8	236.3
70°	209.9	213.0	221.8	230.7	234.6	229.9	221.0	211.4	208.3
72.5°	180.0	183.1	191.3	200.1	203.4	198.7	191.1	182.8	179.1
75°	138.3	141.5	148.7	155.9	159.0	155.9	149.5	142.2	138.3
77.5°	99.5	102.5	108.8	115.0	116.4	114.4	109.9	103.6	100.7
80°	74.7	77.1	82.7	88.3	89.1	88.3	85.1	79.5	77.1
82.5°	52.5	54.2	59.8	64.1	63.6	65.3	62.2	57.2	55.5
85°	21.5	23.0	27.8	32.5	30.2	34.1	31.0	27.8	25.4
87.5°	3.0	3.0	5.6	9.2	8.6	11.2	8.9	7.4	6.3
90°	2.4	2.4	2.4	1.6	1.6	2.3	3.1	5.5	6.3
92.5°	4.2	4.2	4.2	5.3	6.0	12.3	8.2	9.2	8.8
95°	7.8	8.6	9.4	24.2	21.2	31.2	33.7	32.1	29.8
97.5°	13.8	14.6	19.6	66.4	46.9	42.3	55.2	58.5	55.4
100°	18.8	19.6	29.0	107.4	68.3	54.4	62.8	73.0	73.0
102.5°	24.5	25.9	46.0	162.0	95.9	68.6	72.2	81.8	84.3
105°	35.3	39.1	98.1	274.0	145.1	91.4	92.6	96.5	98.8
107.5°	55.1	70.7	253.4	379.5	206.9	119.5	122.1	120.6	119.6
110°	77.7	112.9	416.6	444.4	253.4	141.4	139.6	138.8	136.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	145.4	241.5	584.1	501.2	299.2	165.7	153.4	162.6	158.5
115°	413.4	588.3	756.2	580.4	366.4	208.3	174.9	187.6	190.6
117.5°	820.7	887.8	841.1	647.3	431.9	257.4	194.6	206.1	212.1
120°	1000.2	985.7	882.6	692.5	474.6	292.1	210.2	217.4	222.8
122.5°	1064.9	1030.7	917.1	731.4	515.4	329.8	230.3	227.5	234.1
125°	1125.7	1081.3	968.8	784.5	577.4	390.2	269.1	243.3	247.9
127.5°	1166.7	1120.2	1014.3	835.9	638.4	452.3	319.8	268.3	263.6
130°	1189.3	1144.0	1042.6	865.0	678.6	493.7	356.2	290.8	279.3
132.5°	1206.9	1165.3	1067.1	896.4	713.1	533.2	393.8	320.2	303.1
135°	1231.7	1192.5	1100.6	938.2	763.3	591.5	451.1	372.9	348.3
137.5°	1250.6	1214.1	1127.5	974.6	812.4	648.1	509.4	431.8	406.5
140°	1260.7	1225.4	1143.8	996.7	842.5	683.8	548.4	470.1	444.8
142.5°	1269.5	1235.4	1157.6	1018.2	871.4	718.8	589.8	509.1	485.0
145°	1280.3	1248.1	1178.3	1048.9	912.4	770.5	650.3	568.3	546.0
147.5°	1285.5	1256.6	1194.3	1076.0	952.1	819.8	708.9	630.3	606.4
150°	1287.3	1259.7	1201.8	1092.5	975.9	851.6	745.3	671.8	647.2
152.5°	1289.2	1260.4	1206.9	1106.5	997.9	881.0	781.0	711.3	689.3
155°	1285.0	1259.7	1213.6	1123.6	1029.3	922.6	833.1	769.1	750.0
157.5°	1275.3	1258.2	1215.0	1137.5	1054.2	960.5	882.1	824.1	805.2
160°	1267.7	1253.2	1214.4	1145.2	1069.3	984.1	911.6	858.6	841.0
162.5°	1259.6	1244.4	1211.3	1150.4	1083.7	1006.5	940.4	889.5	875.5
165°	1243.4	1229.6	1205.8	1155.9	1102.2	1037.0	981.4	937.2	925.7
167.5°	1222.4	1213.8	1194.3	1157.6	1116.6	1063.7	1016.2	980.9	970.7
170°	1207.3	1201.2	1186.2	1157.2	1124.2	1080.5	1039.5	1007.9	1000.2
172.5°	1187.9	1185.4	1175.5	1154.8	1130.5	1094.1	1059.5	1032.4	1025.3
175°	1157.9	1161.0	1157.9	1149.0	1136.7	1112.2	1088.9	1067.6	1062.2
177.5°	1135.3	1136.5	1138.5	1138.4	1136.6	1125.5	1112.7	1101.5	1102.7
180°	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5

(END OF REPORT)