

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: P511860

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

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511860  
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-100D-930-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

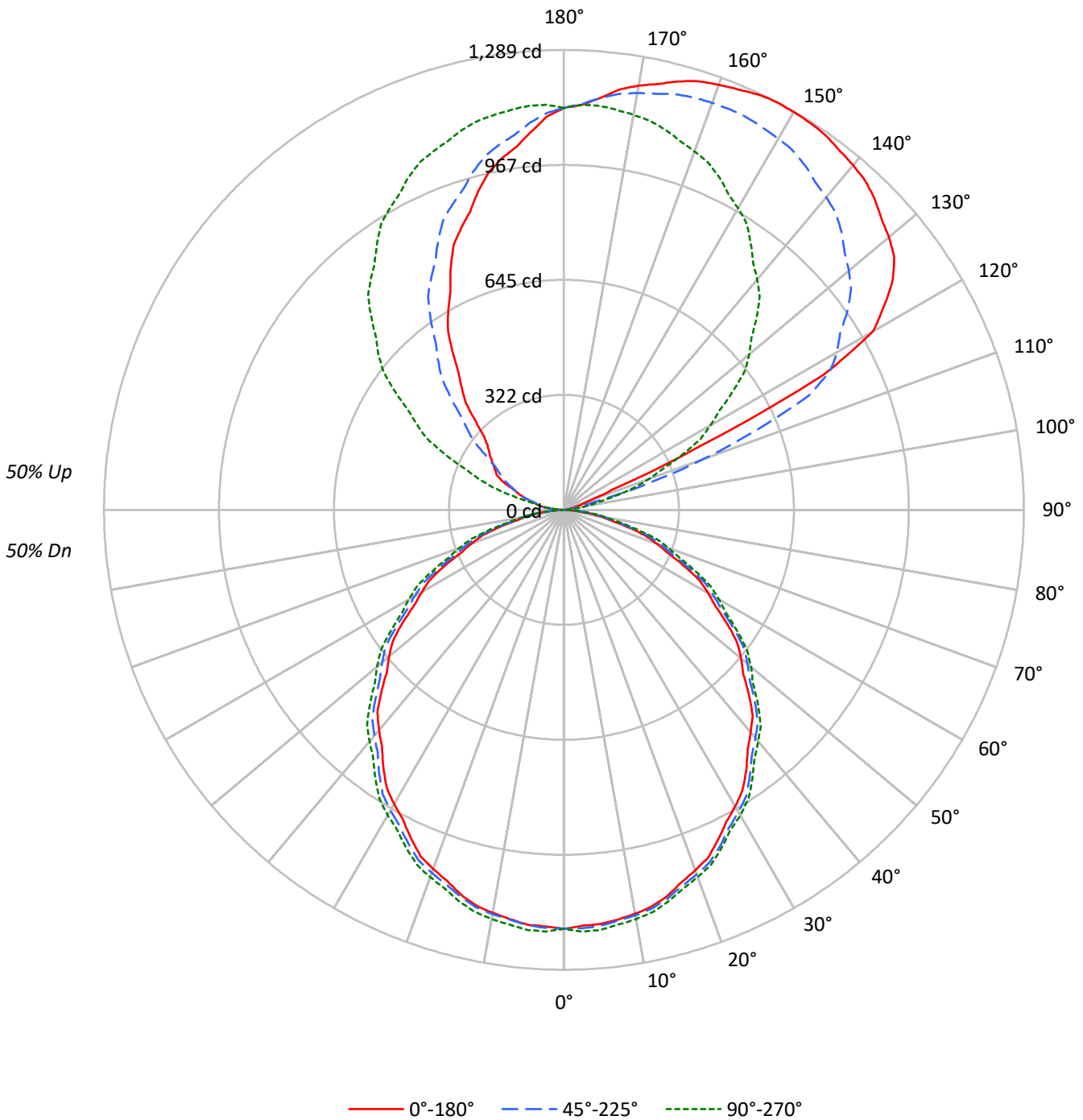
Lumens per Lamp: N/A  
Luminaire Lumens: 6356.1 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 63.4  
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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	50	49	48	42				
2	89	82	75	70	82	75	70	66	64	60	57	54	51	48	44	42	40	35				
3	81	72	64	58	75	66	60	55	56	52	48	47	44	41	39	36	34	30				
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	35	32	29	26				
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22				
6	63	50	42	36	58	47	40	34	40	35	30	34	30	26	28	25	22	19				
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17				
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	24	20	18	15				
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14				
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	37924	37924	37924
5°	37783	38299	37835
10°	37699	38194	37620
15°	37453	37958	37319
20°	36942	37650	36804
25°	36375	37255	36175
30°	35785	36851	35486
35°	35104	36295	34762
40°	34322	35730	33985
45°	33479	35077	33077
50°	32554	34352	32117
55°	31471	33391	31021
60°	30090	32402	29683
65°	28310	31106	27943
70°	26049	29354	25747
75°	22620	26588	23119
80°	18187	22036	19228
85°	10004	15006	12968



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.0	1.7
10°-20°	316.5	5.0
20°-30°	474.4	7.5
30°-40°	564.1	8.9
40°-50°	577.5	9.1
50°-60°	514.8	8.1
60°-70°	383.7	6.0
70°-80°	209.7	3.3
80°-90°	49.8	0.8
90°-100°	27.7	0.4
100°-110°	130.8	2.1
110°-120°	384.4	6.0
120°-130°	558.8	8.8
130°-140°	597.9	9.4
140°-150°	569.9	9.0
150°-160°	470.3	7.4
160°-170°	308.0	4.8
170°-180°	106.8	1.7
0°-30°	901.9	14.2
0°-40°	1466.0	23.1
0°-60°	2558.2	40.2
0°-90°	3201.4	50.4
90°-120°	542.9	8.5
90°-150°	2269.6	35.7
90°-180°	3155.0	49.6
0°-180°	6356.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1174	1174	1174	1174	1174	
5°	1166	1170	1182	1168	1167	111
15°	1120	1127	1135	1122	1116	315
25°	1021	1038	1046	1032	1015	470
35°	890	909	921	902	882	556
45°	733	755	768	747	724	565
55°	559	581	593	576	551	499
65°	370	389	407	386	366	367
75°	181	196	213	197	185	194
85°	27	37	40	41	35	40
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°	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1166.7	1172.3	1173.7	1172.7	1183.3	1173.3	1173.1	1172.4	1168.6
5°	1165.6	1167.2	1170.4	1168.3	1181.5	1168.3	1168.0	1166.4	1167.2
7.5°	1158.0	1159.5	1161.3	1159.2	1172.4	1158.9	1158.8	1156.1	1156.9
10°	1149.7	1151.3	1153.7	1151.6	1164.8	1150.0	1150.5	1146.5	1147.3
12.5°	1138.3	1139.8	1144.1	1141.4	1154.0	1139.9	1140.3	1135.7	1135.9
15°	1120.3	1122.6	1126.6	1122.2	1135.4	1121.4	1121.9	1117.1	1116.3
17.5°	1094.7	1099.4	1104.2	1100.4	1112.2	1098.8	1099.5	1092.1	1090.1
20°	1075.0	1079.6	1087.7	1083.2	1095.6	1081.6	1082.9	1071.8	1071.0
22.5°	1055.3	1058.7	1068.6	1064.1	1076.6	1062.6	1063.2	1050.2	1050.0
25°	1020.9	1025.6	1037.6	1033.9	1045.6	1031.6	1032.0	1017.7	1015.3
27.5°	985.8	990.6	1002.8	999.2	1011.2	996.9	997.8	981.8	977.2
30°	959.7	965.1	978.0	975.1	988.3	972.8	972.4	956.4	951.7
32.5°	931.7	938.4	951.3	949.6	961.6	946.7	945.1	929.0	924.4
35°	890.5	897.5	908.8	909.8	920.7	906.7	902.4	887.2	881.8
37.5°	846.0	852.5	864.7	866.9	877.5	862.9	856.8	843.0	836.8
40°	814.2	822.0	834.8	838.2	847.6	833.6	826.9	812.4	806.2
42.5°	783.0	790.8	804.3	809.6	816.4	803.0	795.1	781.2	773.8
45°	733.1	740.9	755.3	762.6	768.1	755.6	746.6	732.1	724.3
47.5°	682.4	690.9	705.6	714.6	718.1	706.8	698.4	682.3	673.6
50°	648.0	656.6	671.9	681.4	683.8	673.7	664.7	648.6	639.3
52.5°	613.0	620.3	635.6	646.4	647.5	639.3	629.7	613.6	604.9
55°	559.0	566.7	581.2	593.9	593.1	587.7	575.6	559.6	551.0
57.5°	503.5	509.7	524.8	538.3	538.6	532.4	520.8	504.9	496.5
60°	465.9	472.1	486.6	500.2	501.7	495.5	482.6	467.3	459.6
62.5°	428.4	434.0	447.8	462.6	464.2	458.0	444.5	429.8	422.0
65°	370.5	375.2	388.8	404.0	407.1	400.1	385.6	372.7	365.7
67.5°	313.4	317.9	330.6	345.6	349.7	341.8	328.7	316.5	309.6
70°	275.9	279.8	291.8	306.2	310.9	302.3	291.8	278.9	272.7
72.5°	237.7	241.6	253.6	267.4	271.4	263.5	253.6	242.1	239.6
75°	181.3	185.2	195.6	210.0	213.1	206.1	197.2	186.8	185.3
77.5°	130.9	133.4	142.8	152.7	154.7	150.5	145.2	135.9	135.2
80°	97.8	100.9	109.7	117.7	118.5	116.1	112.1	104.1	103.4
82.5°	68.5	71.0	78.6	85.8	84.8	84.9	82.2	74.9	74.7
85°	27.0	29.4	37.4	43.7	40.5	42.9	41.3	35.8	35.0
87.5°	3.0	3.6	6.8	13.0	11.8	13.8	12.1	9.4	9.5
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)