

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: P511741

Luminaire Tested: **SQW-F-025U-100D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511741
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-15,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

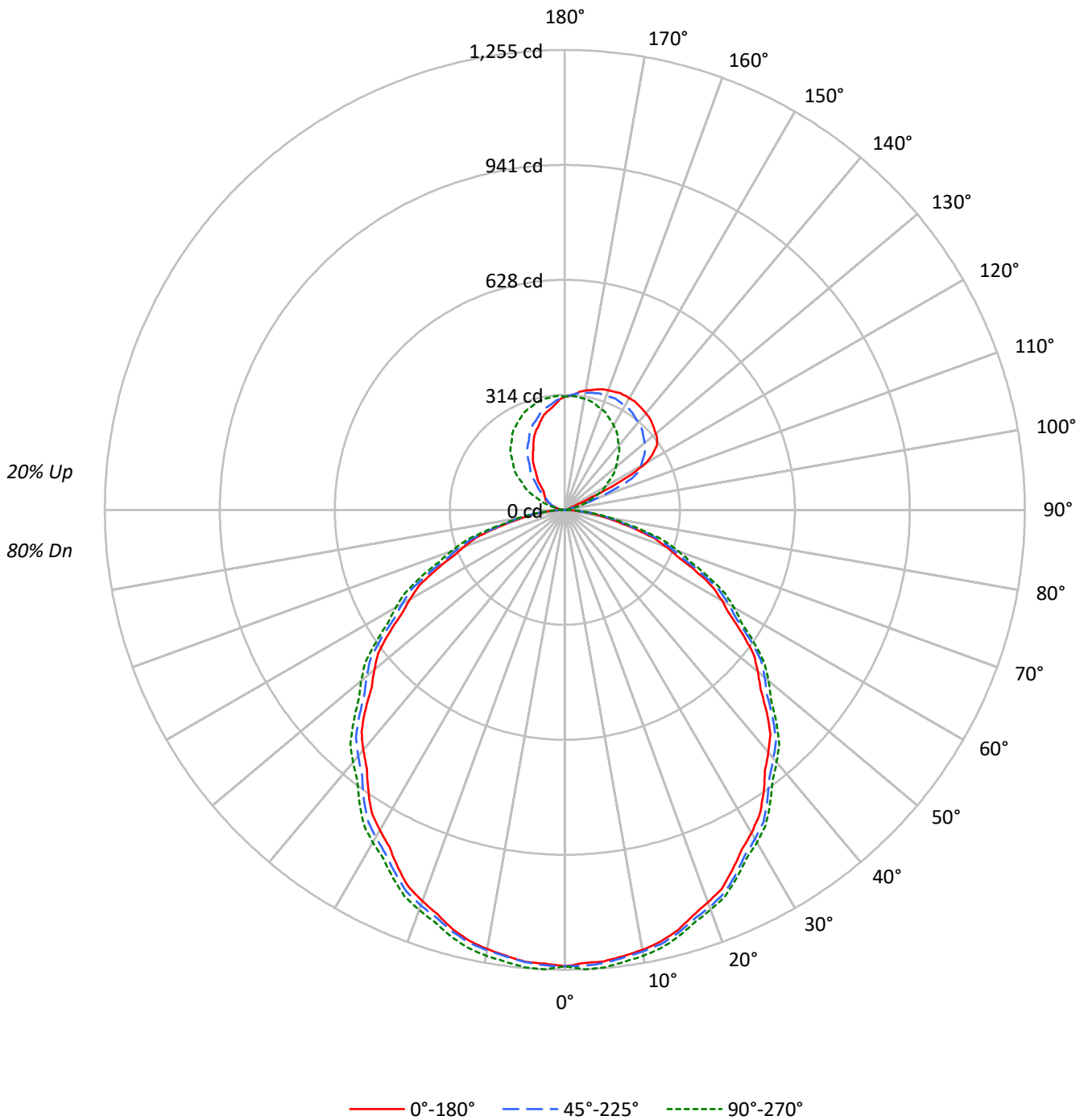
Lumens per Lamp: N/A
Luminaire Lumens: 4248.4 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

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



TEST NUMBER: P511741
CATALOG NUMBER: SQW-F-025U-100D-935-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P511741

CATALOG NUMBER: SQW-F-025U-100D-935-1D-UNV-STD-W-4

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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80				
1	104	100	96	92	100	96	92	89	88	85	82	81	78	76	74	72	71	67				
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	59	56				
3	87	77	69	63	83	74	66	61	68	62	57	62	58	54	57	54	50	47				
4	79	68	59	53	76	65	57	52	60	54	49	56	50	46	51	47	43	41				
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	35				
6	67	54	46	40	64	52	44	39	49	42	37	45	39	35	42	37	33	31				
7	62	49	41	35	59	48	40	34	44	37	33	41	35	31	38	33	29	27				
8	58	45	37	31	55	43	36	30	40	34	29	38	32	28	35	30	26	24				
9	54	41	33	28	52	40	32	27	37	31	26	35	29	25	32	27	24	22				
10	51	38	30	25	48	37	29	25	34	28	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40223	40223	40223
5°	40078	40623	40130
10°	39987	40512	39905
15°	39726	40261	39586
20°	39182	39935	39038
25°	38584	39514	38374
30°	37955	39088	37642
35°	37237	38499	36871
40°	36404	37896	36050
45°	35511	37205	35086
50°	34528	36437	34066
55°	33380	35418	32901
60°	31917	34371	31485
65°	30029	32993	29639
70°	27626	31138	27314
75°	23993	28197	24517
80°	19284	23375	20381
85°	10634	15932	13746



TEST NUMBER: P511741

CATALOG NUMBER: SQW-F-025U-100D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	2.8
10°-20°	335.7	7.9
20°-30°	503.2	11.8
30°-40°	598.3	14.1
40°-50°	612.5	14.4
50°-60°	546.0	12.9
60°-70°	407.0	9.6
70°-80°	222.4	5.2
80°-90°	52.3	1.2
90°-100°	7.6	0.2
100°-110°	34.6	0.8
110°-120°	100.4	2.4
120°-130°	151.5	3.6
130°-140°	162.2	3.8
140°-150°	155.0	3.6
150°-160°	128.3	3.0
160°-170°	84.3	2.0
170°-180°	29.2	0.7
0°-30°	956.7	22.5
0°-40°	1555.0	36.6
0°-60°	2713.5	63.9
0°-90°	3395.2	79.9
90°-120°	142.6	3.4
90°-150°	611.3	14.4
90°-180°	853.0	20.1
0°-180°	4248.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1246	1246	1246	1246	1246	
5°	1236	1241	1253	1239	1238	117
15°	1188	1195	1204	1190	1184	334
25°	1083	1101	1109	1095	1077	499
35°	945	964	977	957	935	590
45°	778	801	815	792	768	600
55°	593	616	629	611	584	529
65°	393	412	432	409	388	389
75°	192	208	226	209	196	206
85°	29	40	43	44	37	42
90°	1	1	0	1	2	1
95°	3	3	6	10	8	3
105°	9	23	40	26	28	11
115°	79	201	99	49	54	106
125°	307	265	156	73	67	269
135°	336	300	206	122	93	259
145°	350	322	250	176	146	219
155°	352	332	281	228	202	162
165°	340	330	302	269	252	97
175°	317	317	311	298	290	31
180°	309	309	309	309	309	



TEST NUMBER: P511741

CATALOG NUMBER: SQW-F-025U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
2.5°	1237.5	1243.5	1245.0	1243.9	1255.1	1244.5	1244.3	1243.5	1239.6
5°	1236.4	1238.0	1241.4	1239.2	1253.2	1239.2	1238.9	1237.2	1238.0
7.5°	1228.3	1229.9	1231.8	1229.6	1243.6	1229.3	1229.1	1226.3	1227.1
10°	1219.5	1221.1	1223.7	1221.5	1235.5	1219.8	1220.3	1216.1	1217.0
12.5°	1207.3	1209.0	1213.6	1210.7	1224.0	1209.0	1209.5	1204.7	1204.8
15°	1188.3	1190.8	1195.0	1190.3	1204.3	1189.5	1190.0	1184.9	1184.1
17.5°	1161.1	1166.1	1171.3	1167.2	1179.7	1165.5	1166.2	1158.4	1156.2
20°	1140.2	1145.2	1153.7	1149.0	1162.1	1147.3	1148.7	1136.8	1136.0
22.5°	1119.3	1122.9	1133.5	1128.7	1141.9	1127.1	1127.7	1113.9	1113.7
25°	1082.9	1087.8	1100.6	1096.6	1109.0	1094.2	1094.7	1079.4	1077.0
27.5°	1045.6	1050.7	1063.6	1059.9	1072.6	1057.4	1058.4	1041.4	1036.5
30°	1017.9	1023.7	1037.3	1034.3	1048.3	1031.8	1031.4	1014.4	1009.5
32.5°	988.2	995.3	1009.0	1007.3	1020.0	1004.1	1002.4	985.4	980.5
35°	944.6	952.0	964.0	965.1	976.6	961.8	957.2	941.1	935.3
37.5°	897.3	904.3	917.2	919.5	930.7	915.2	908.8	894.1	887.5
40°	863.6	871.8	885.5	889.1	899.0	884.2	877.1	861.8	855.2
42.5°	830.5	838.8	853.1	858.7	866.0	851.8	843.4	828.7	820.8
45°	777.6	785.8	801.2	808.9	814.7	801.5	791.9	776.5	768.3
47.5°	723.8	732.8	748.4	757.9	761.7	749.7	740.8	723.7	714.5
50°	687.3	696.4	712.6	722.8	725.3	714.6	705.0	688.0	678.1
52.5°	650.2	658.0	674.2	685.7	686.8	678.1	667.9	650.9	641.6
55°	592.9	601.1	616.5	630.0	629.1	623.4	610.6	593.5	584.4
57.5°	534.0	540.6	556.6	571.0	571.3	564.7	552.4	535.5	526.6
60°	494.2	500.8	516.1	530.5	532.2	525.6	511.9	495.7	487.5
62.5°	454.4	460.3	475.0	490.7	492.4	485.8	471.4	455.9	447.7
65°	393.0	398.0	412.4	428.5	431.8	424.4	409.0	395.4	387.9
67.5°	332.5	337.2	350.7	366.6	370.9	362.5	348.6	335.7	328.4
70°	292.6	296.8	309.5	324.8	329.8	320.7	309.5	295.9	289.3
72.5°	252.2	256.3	269.0	283.6	287.9	279.5	269.0	256.8	254.2
75°	192.3	196.4	207.5	222.7	226.0	218.6	209.2	198.2	196.5
77.5°	138.8	141.5	151.5	162.0	164.1	159.7	154.0	144.2	143.4
80°	103.7	107.0	116.4	124.8	125.7	123.2	118.9	110.5	109.6
82.5°	72.7	75.3	83.3	91.1	89.9	90.1	87.2	79.4	79.3
85°	28.7	31.1	39.6	46.3	43.0	45.5	43.9	37.9	37.1
87.5°	2.9	3.5	6.9	13.5	12.1	14.1	12.3	8.9	9.1
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	1.7
92.5°	0.9	1.5	0.9	1.4	1.4	3.4	2.9	2.2	2.4
95°	2.6	2.6	2.6	6.0	6.0	8.4	10.2	9.3	8.5
97.5°	3.7	3.7	4.9	16.8	13.3	11.3	15.8	16.3	16.3
100°	5.1	5.1	7.7	26.2	18.7	15.4	17.9	20.4	20.4
102.5°	6.5	7.1	11.7	41.0	26.2	18.9	20.6	22.5	23.1
105°	9.4	10.2	23.0	69.9	40.0	25.8	26.4	27.2	28.1
107.5°	13.9	17.3	57.6	99.9	56.6	33.4	35.2	33.7	33.7
110°	18.7	25.4	97.8	118.8	68.9	38.9	40.0	39.1	39.1



TEST NUMBER: P511741

CATALOG NUMBER: SQW-F-025U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	29.6	49.5	146.1	134.3	81.1	45.9	44.0	45.9	44.6
115°	79.1	129.0	200.7	156.0	98.6	57.1	49.3	52.7	53.6
117.5°	188.4	225.5	227.5	174.2	116.7	69.6	53.6	57.5	59.2
120°	258.5	264.3	239.8	185.7	127.5	78.5	57.0	59.6	61.2
122.5°	285.0	279.5	250.7	196.6	138.4	88.7	62.4	62.3	63.9
125°	307.0	295.3	265.3	213.0	155.6	104.9	73.1	66.3	67.2
127.5°	317.8	306.2	277.4	226.5	171.8	122.0	86.6	72.1	71.4
130°	324.0	312.3	284.8	236.0	182.0	132.9	96.1	78.2	74.8
132.5°	329.4	318.4	291.6	243.5	192.2	143.1	106.3	85.6	80.9
135°	335.9	325.1	300.2	254.8	205.8	159.2	121.6	99.3	92.7
137.5°	341.6	331.7	308.0	264.9	220.1	173.7	137.1	115.5	108.2
140°	344.4	334.4	312.1	271.1	229.6	183.9	147.9	125.7	119.0
142.5°	347.1	337.8	316.1	277.3	237.7	194.0	158.8	136.6	129.9
145°	349.5	341.2	322.3	285.7	250.0	208.4	176.0	152.9	146.2
147.5°	352.0	343.2	326.2	292.9	260.0	222.6	191.5	169.2	162.7
150°	352.0	344.5	328.2	297.7	266.1	232.1	202.4	180.1	174.3
152.5°	352.7	344.6	330.3	301.9	272.9	240.8	212.6	191.0	185.9
155°	352.0	344.5	332.5	307.2	280.6	252.3	227.9	207.4	202.4
157.5°	349.0	344.1	332.5	310.4	288.4	262.5	241.1	225.0	218.0
160°	346.9	342.8	332.5	312.5	292.5	269.2	250.0	234.6	229.6
162.5°	344.9	340.7	331.8	314.5	296.6	275.3	257.5	242.8	239.1
165°	340.1	336.8	329.9	316.0	301.9	283.6	268.7	255.9	252.5
167.5°	334.8	332.5	326.8	316.9	305.8	291.5	278.6	268.6	264.8
170°	330.8	329.1	324.8	316.9	307.8	296.2	284.0	275.4	272.9
172.5°	325.3	324.3	322.1	315.6	309.2	299.5	290.1	282.2	279.7
175°	317.2	317.2	317.2	314.5	311.2	304.6	297.6	291.6	289.9
177.5°	310.7	311.4	312.1	311.4	311.4	308.0	304.6	301.2	301.9
180°	308.7	308.7	308.7	308.7	308.7	308.7	308.7	308.7	308.7

(END OF REPORT)