

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P564924

Luminaire Tested: **SQ4-PW1-100U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564924
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-100U-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

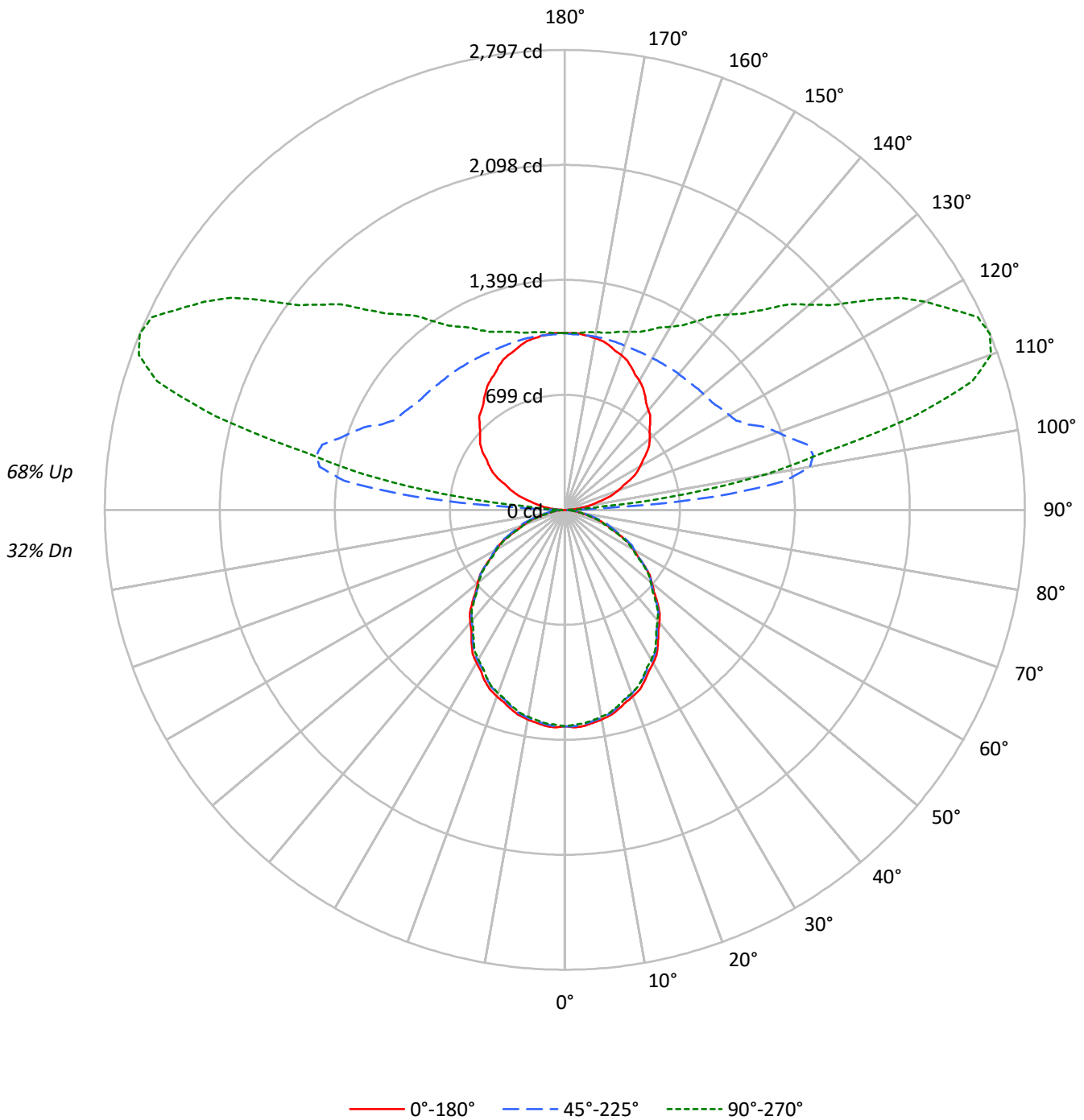
Lumens per Lamp: N/A
Luminaire Lumens: 10332.2 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.7
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: P564924
CATALOG NUMBER: SQ4-PW1-100U-050D-935-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P564924

CATALOG NUMBER: SQ4-PW1-100U-050D-935-1D-UNV-STD-W-8

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	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	86	78	72	67	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	35	33	28	26	24	20
4	71	61	53	47	64	55	49	43	44	40	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	35	31	31	27	24	22	20	18	15
6	60	48	41	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	44	36	31	50	40	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	15	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6066	6016	5984
15°	6001	5934	5912
20°	5929	5838	5827
25°	5847	5740	5723
30°	5723	5637	5599
35°	5561	5482	5450
40°	5387	5303	5282
45°	5177	5110	5087
50°	4963	4921	4888
55°	4732	4732	4657
60°	4442	4528	4368
65°	4065	4268	3965
70°	3584	3928	3489
75°	3060	3515	2978
80°	2372	2959	2404
85°	1535	2271	2027



TEST NUMBER: P564924

CATALOG NUMBER: SQ4-PW1-100U-050D-935-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.2
10°-20°	350.1	3.4
20°-30°	519.3	5.0
30°-40°	607.7	5.9
40°-50°	604.9	5.9
50°-60°	522.4	5.1
60°-70°	376.0	3.6
70°-80°	197.2	1.9
80°-90°	51.1	0.5
90°-100°	503.0	4.9
100°-110°	1388.8	13.4
110°-120°	1432.3	13.9
120°-130°	1150.9	11.1
130°-140°	904.5	8.8
140°-150°	693.7	6.7
150°-160°	498.6	4.8
160°-170°	304.9	3.0
170°-180°	102.8	1.0
0°-30°	993.4	9.6
0°-40°	1601.1	15.5
0°-60°	2728.4	26.4
0°-90°	3352.8	32.4
90°-120°	3324.1	32.2
90°-150°	6073.2	58.8
90°-180°	6979.0	67.5
0°-180°	10332.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1320	1306	1310	1306	1304	125
15°	1257	1241	1243	1240	1238	354
25°	1149	1129	1128	1121	1124	528
35°	987	974	974	964	968	617
45°	794	787	783	781	780	612
55°	588	587	588	580	579	525
65°	372	384	391	376	363	369
75°	172	188	197	184	167	184
85°	29	38	43	41	38	38
90°	3	7	14	16	17	6
95°	74	272	913	375	244	79
105°	248	382	1528	2333	2196	263
115°	443	536	1231	2436	2770	436
125°	608	692	1115	1888	2215	541
135°	732	811	1084	1529	1724	566
145°	849	908	1071	1302	1401	532
155°	957	989	1062	1168	1205	441
165°	1036	1050	1067	1109	1117	292
175°	1074	1076	1069	1084	1081	102
180°	1074	1074	1074	1074	1074	



TEST NUMBER: P564924

CATALOG NUMBER: SQ4-PW1-100U-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.9	1316.9	1316.9	1316.9	1316.9
2.5°	1324.3	1313.4	1316.9	1314.0	1307.6
5°	1320.4	1305.6	1309.9	1306.4	1304.1
7.5°	1306.9	1293.3	1296.5	1292.7	1291.4
10°	1294.9	1281.2	1284.4	1279.7	1277.4
12.5°	1280.9	1266.4	1269.6	1264.9	1263.5
15°	1256.6	1240.7	1242.6	1240.3	1238.0
17.5°	1228.3	1212.1	1212.5	1208.7	1208.3
20°	1207.8	1190.8	1189.3	1184.7	1186.9
22.5°	1185.6	1167.6	1166.1	1159.6	1162.8
25°	1148.7	1129.4	1127.8	1120.9	1124.3
27.5°	1106.0	1086.9	1086.9	1077.3	1080.9
30°	1074.4	1056.3	1058.2	1046.7	1051.2
32.5°	1041.0	1024.6	1025.7	1014.2	1018.7
35°	987.4	973.8	973.5	964.3	967.7
37.5°	932.6	920.6	918.7	913.4	914.3
40°	894.6	884.4	880.6	877.2	877.2
42.5°	854.6	845.3	841.7	839.1	838.2
45°	793.6	786.8	783.2	780.8	779.7
47.5°	733.3	726.9	723.8	722.1	721.0
50°	691.5	687.0	685.7	682.2	681.1
52.5°	649.7	647.0	645.8	641.4	640.2
55°	588.3	587.1	588.3	580.1	579.0
57.5°	524.2	526.0	529.8	518.8	516.1
60°	481.5	486.0	490.8	477.9	473.4
62.5°	437.9	445.1	451.8	437.0	430.7
65°	372.4	383.8	391.0	375.6	363.2
67.5°	309.3	323.4	332.1	315.5	301.4
70°	265.7	281.6	291.2	274.6	258.7
72.5°	227.6	245.3	253.2	237.5	221.6
75°	171.7	187.6	197.2	184.1	167.1
77.5°	121.8	136.8	144.8	133.3	119.3
80°	89.3	105.2	111.4	101.8	90.5
82.5°	63.4	76.5	80.8	75.0	67.3
85°	29.0	38.1	42.9	40.6	38.3
87.5°	8.1	15.1	20.4	20.8	22.0
90°	3.4	6.8	13.7	15.5	17.2
92.5°	30.9	128.4	229.6	83.8	65.3
95°	73.9	272.2	912.6	375.1	244.1
97.5°	122.4	304.9	1351.9	1040.9	753.8
100°	158.1	324.5	1514.2	1524.9	1239.2
102.5°	192.5	346.8	1545.8	1884.1	1613.2
105°	247.5	381.9	1527.9	2332.6	2196.5
107.5°	305.9	425.6	1442.7	2548.9	2598.7
110°	347.2	454.7	1376.7	2595.5	2756.8

TEST NUMBER: P564924

CATALOG NUMBER: SQ4-PW1-100U-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.3	487.8	1314.8	2558.7	2796.7
115°	443.4	535.9	1230.6	2436.1	2770.5
117.5°	495.0	587.1	1175.2	2263.6	2644.0
120°	529.4	620.1	1153.2	2146.8	2529.9
122.5°	562.4	649.1	1135.4	2037.7	2400.7
125°	608.4	692.4	1115.4	1887.7	2215.4
127.5°	647.6	731.6	1103.7	1760.9	2043.5
130°	673.7	757.8	1098.2	1683.3	1940.4
132.5°	698.5	778.5	1092.7	1618.1	1851.0
135°	732.2	811.1	1084.5	1528.9	1723.9
137.5°	770.0	841.9	1080.4	1454.0	1620.4
140°	790.6	861.2	1077.6	1404.1	1550.3
142.5°	814.0	879.2	1074.9	1359.7	1488.4
145°	849.0	907.9	1070.7	1301.6	1400.7
147.5°	882.7	934.1	1067.0	1252.6	1329.6
150°	907.5	949.5	1065.6	1223.4	1285.6
152.5°	926.7	966.0	1064.2	1198.4	1249.8
155°	957.3	989.2	1062.2	1167.8	1204.8
157.5°	985.5	1010.0	1062.5	1145.6	1170.8
160°	1002.0	1023.8	1063.9	1133.0	1151.5
162.5°	1015.8	1034.9	1065.2	1122.0	1136.4
165°	1036.4	1049.8	1067.3	1108.8	1117.2
167.5°	1052.2	1060.3	1069.0	1100.7	1103.4
170°	1060.4	1067.2	1069.0	1096.5	1096.5
172.5°	1067.3	1071.3	1069.0	1091.0	1089.7
175°	1074.2	1075.9	1069.0	1084.4	1081.1
177.5°	1076.9	1075.6	1068.7	1078.2	1075.6
180°	1074.2	1074.2	1074.2	1074.2	1074.2

(END OF REPORT)