

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: P563604

Luminaire Tested: **SQ4-PP3-100U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563604  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-075D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

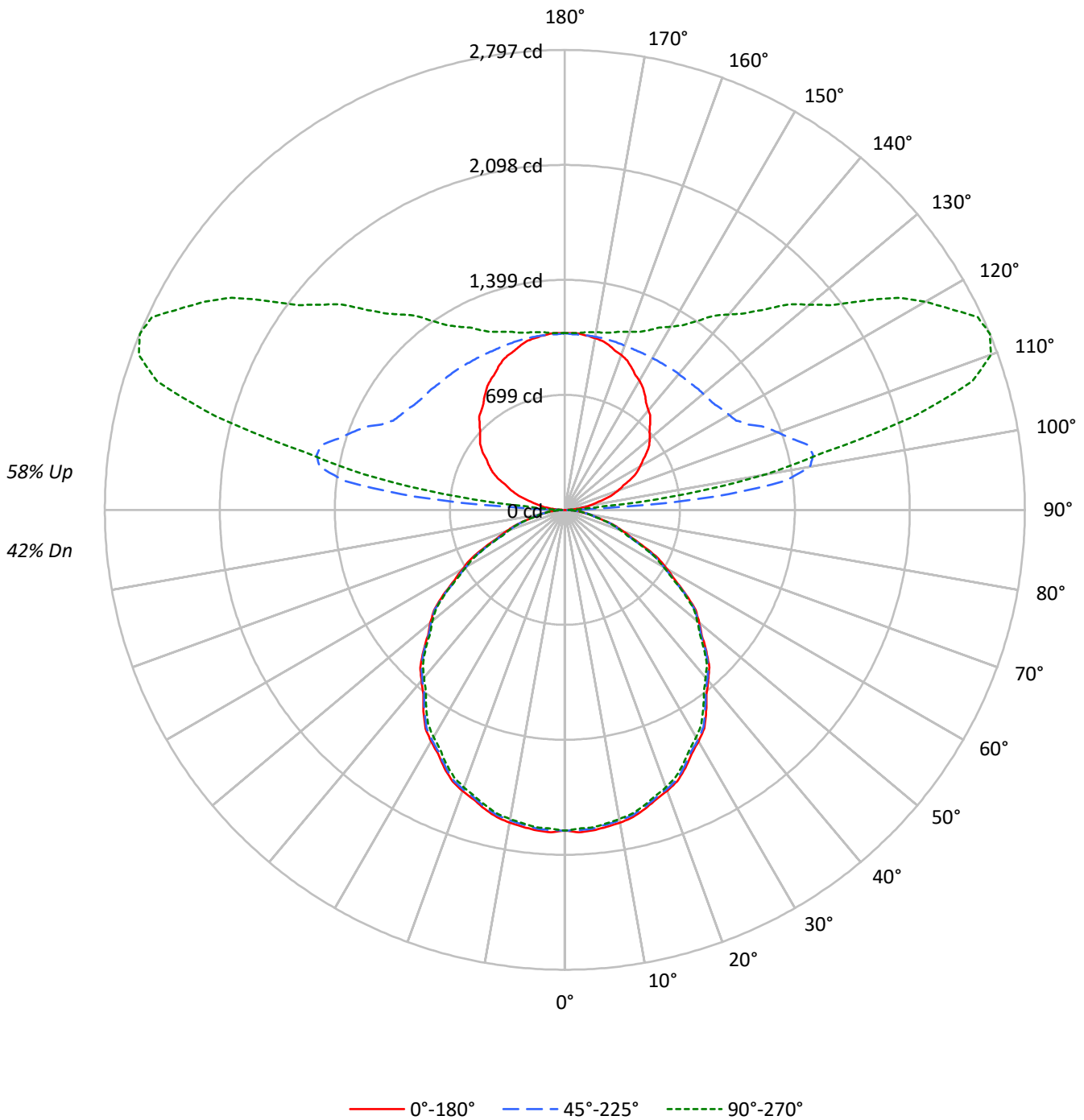
Lumens per Lamp: N/A  
Luminaire Lumens: 11974.5 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 103.9  
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: P563604  
CATALOG NUMBER: SQ4-PP3-100U-075D-935-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P563604

CATALOG NUMBER: SQ4-PP3-100U-075D-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	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42				
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35				
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30				
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26				
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22				
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17				
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15				
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11				

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

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7942	7885	7808
50°	7656	7607	7533
55°	7260	7164	7109
60°	6610	6420	6388
65°	5822	5580	5561
70°	5027	4819	4819
75°	4328	4267	4205
80°	3815	3860	3770
85°	2985	3255	3255



TEST NUMBER: P563604

CATALOG NUMBER: SQ4-PP3-100U-075D-935-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.5	1.5
10°-20°	526.7	4.4
20°-30°	788.9	6.6
30°-40°	925.4	7.7
40°-50°	928.3	7.8
50°-60°	791.9	6.6
60°-70°	516.4	4.3
70°-80°	259.1	2.2
80°-90°	73.9	0.6
90°-100°	503.0	4.2
100°-110°	1388.8	11.6
110°-120°	1432.3	12.0
120°-130°	1150.9	9.6
130°-140°	904.5	7.6
140°-150°	693.7	5.8
150°-160°	498.6	4.2
160°-170°	304.9	2.5
170°-180°	102.8	0.9
0°-30°	1500.1	12.5
0°-40°	2425.5	20.3
0°-60°	4145.6	34.6
0°-90°	4995.0	41.7
90°-120°	3324.1	27.8
90°-150°	6073.2	50.7
90°-180°	6979.0	58.3
0°-180°	11974.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1958	1939	1946	1939	1939	186
15°	1882	1864	1872	1865	1862	531
25°	1734	1714	1722	1706	1705	797
35°	1498	1483	1487	1470	1469	936
45°	1217	1209	1209	1197	1197	937
55°	903	899	891	886	884	802
65°	533	523	511	508	510	532
75°	243	243	239	238	236	263
85°	56	61	62	62	62	66
90°	3	7	14	16	17	7
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: P563604

CATALOG NUMBER: SQ4-PP3-100U-075D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1963.1	1947.0	1950.7	1947.8	1939.8
5°	1957.6	1939.2	1945.6	1938.8	1938.8
7.5°	1944.3	1924.2	1930.6	1923.7	1923.4
10°	1931.9	1911.9	1918.3	1911.4	1909.7
12.5°	1914.2	1894.1	1901.9	1893.6	1893.3
15°	1882.4	1864.0	1872.1	1865.2	1861.8
17.5°	1846.5	1826.4	1836.2	1826.6	1825.3
20°	1819.1	1799.0	1808.8	1795.2	1795.2
22.5°	1786.3	1766.2	1777.4	1759.6	1759.6
25°	1733.6	1713.6	1721.7	1706.2	1704.6
27.5°	1671.0	1651.3	1659.8	1642.3	1642.0
30°	1625.9	1607.5	1617.4	1598.5	1596.8
32.5°	1576.7	1559.6	1566.8	1547.9	1546.2
35°	1497.7	1482.6	1487.4	1470.3	1468.6
37.5°	1414.6	1399.2	1404.7	1390.0	1389.3
40°	1355.8	1345.7	1347.2	1335.2	1331.8
42.5°	1301.1	1289.7	1291.2	1279.2	1278.5
45°	1217.3	1208.9	1208.7	1196.8	1196.8
47.5°	1128.4	1122.0	1120.2	1110.3	1109.9
50°	1066.8	1061.8	1060.0	1051.4	1049.7
52.5°	1002.6	1000.2	994.4	987.2	986.8
55°	902.7	899.4	890.7	885.6	883.9
57.5°	794.3	787.6	777.9	770.4	771.8
60°	716.4	709.7	695.8	692.4	692.4
62.5°	641.1	633.1	619.2	614.5	617.2
65°	533.4	523.4	511.2	507.8	509.5
67.5°	435.6	426.6	413.4	413.4	412.0
70°	372.7	367.7	357.3	357.3	357.3
72.5°	316.6	314.3	306.7	306.7	305.3
75°	242.8	242.8	239.4	237.6	235.9
77.5°	181.9	182.6	180.9	179.1	176.1
80°	143.6	147.0	145.3	143.6	141.9
82.5°	108.1	111.4	111.1	108.0	107.7
85°	56.4	61.4	61.5	61.5	61.5
87.5°	15.7	21.8	24.6	25.0	26.7
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: P563604

CATALOG NUMBER: SQ4-PP3-100U-075D-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)