

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: P563148

Luminaire Tested: **SQ4-PC3-150U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563148  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-150U-100D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

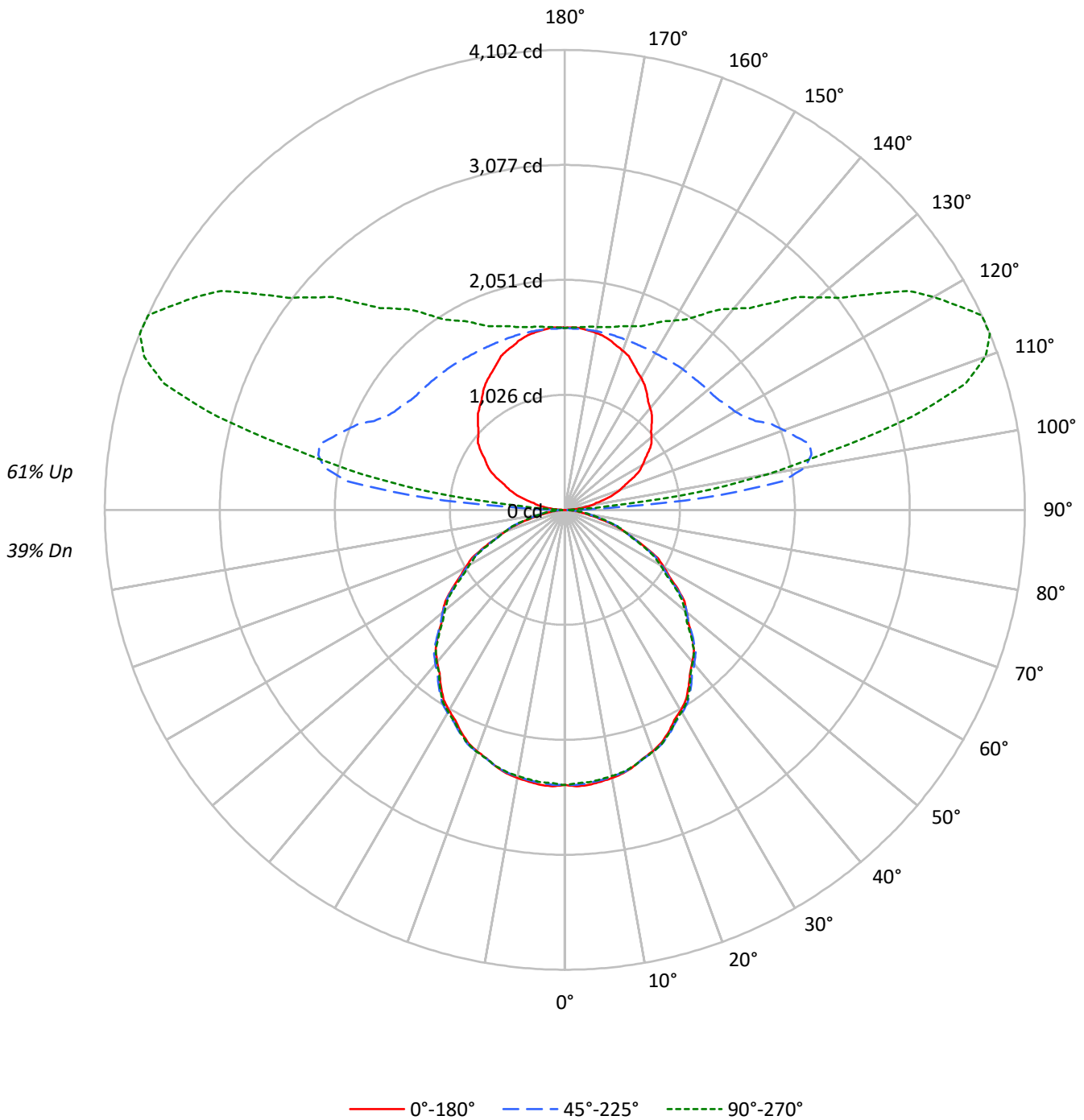
Lumens per Lamp: N/A  
Luminaire Lumens: 17169.1 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 148.4  
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



TEST NUMBER: P563148  
CATALOG NUMBER: SQ4-PC3-150U-100D-935-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P563148

CATALOG NUMBER: SQ4-PC3-150U-100D-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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

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

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11137	11218	11184
30°	11002	11135	11087
35°	10838	11005	10928
40°	10659	10809	10700
45°	10466	10539	10376
50°	10192	10192	10029
55°	9868	9741	9594
60°	9391	9203	9056
65°	8681	8508	8432
70°	7600	7661	7631
75°	6115	6764	6803
80°	4346	5736	5794
85°	2646	4811	4811



TEST NUMBER: P563148

CATALOG NUMBER: SQ4-PC3-150U-100D-935-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.2	1.4
10°-20°	666.5	3.9
20°-30°	1009.3	5.9
30°-40°	1210.0	7.0
40°-50°	1233.8	7.2
50°-60°	1077.0	6.3
60°-70°	771.0	4.5
70°-80°	397.1	2.3
80°-90°	103.8	0.6
90°-100°	754.6	4.4
100°-110°	2040.2	11.9
110°-120°	2145.0	12.5
120°-130°	1742.3	10.1
130°-140°	1366.7	8.0
140°-150°	1049.0	6.1
150°-160°	754.4	4.4
160°-170°	460.8	2.7
170°-180°	155.4	0.9
0°-30°	1908.0	11.1
0°-40°	3118.0	18.2
0°-60°	5428.7	31.6
0°-90°	6700.7	39.0
90°-120°	4939.8	28.8
90°-150°	9097.7	53.0
90°-180°	10468.0	61.0
0°-180°	17169.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2454	2454	2454	2454	2454	
5°	2463	2439	2447	2440	2438	234
15°	2370	2350	2370	2370	2368	668
25°	2188	2173	2204	2197	2197	1007
35°	1925	1920	1954	1940	1940	1204
45°	1604	1600	1616	1595	1590	1235
55°	1227	1211	1211	1193	1193	1094
65°	795	778	779	772	772	787
75°	343	359	380	382	382	371
85°	50	77	91	93	91	68
90°	4	10	23	24	23	10
95°	117	411	1255	649	386	123
105°	379	586	2263	3339	3202	399
115°	668	816	1877	3634	4102	659
125°	914	1047	1692	2855	3354	815
135°	1096	1226	1646	2305	2609	847
145°	1274	1370	1624	1973	2124	797
155°	1438	1495	1610	1770	1828	663
165°	1566	1581	1617	1680	1688	441
175°	1625	1624	1618	1639	1636	154
180°	1624	1624	1624	1624	1624	

TEST NUMBER: P563148

CATALOG NUMBER: SQ4-PC3-150U-100D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2454.0	2454.0	2454.0	2454.0	2454.0
2.5°	2468.5	2447.2	2454.0	2448.3	2439.4
5°	2463.1	2438.6	2447.2	2440.3	2438.1
7.5°	2445.3	2420.9	2432.2	2427.6	2425.3
10°	2429.0	2404.5	2417.6	2413.0	2410.8
12.5°	2407.2	2384.5	2399.4	2394.9	2394.4
15°	2369.9	2349.9	2369.9	2369.9	2367.6
17.5°	2323.1	2304.9	2326.3	2327.6	2326.3
20°	2290.4	2270.4	2297.2	2295.0	2297.2
22.5°	2250.4	2233.9	2262.7	2256.8	2259.0
25°	2188.1	2172.6	2204.0	2197.2	2197.2
27.5°	2114.5	2103.4	2137.7	2130.4	2130.4
30°	2065.4	2054.3	2090.4	2081.3	2081.3
32.5°	2010.9	2003.3	2037.7	2026.8	2026.8
35°	1924.6	1920.1	1954.1	1940.5	1940.5
37.5°	1835.5	1831.5	1862.3	1845.8	1840.5
40°	1770.0	1767.8	1795.0	1776.9	1776.9
42.5°	1704.6	1702.4	1726.0	1704.1	1704.1
45°	1604.2	1599.7	1615.5	1595.0	1590.5
47.5°	1494.7	1490.2	1500.1	1477.8	1475.6
50°	1420.1	1415.7	1420.1	1399.6	1397.4
52.5°	1343.8	1335.8	1336.5	1316.0	1315.6
55°	1227.0	1211.4	1211.1	1192.9	1192.9
57.5°	1103.4	1082.9	1084.7	1069.2	1067.0
60°	1017.9	995.7	997.5	983.8	981.6
62.5°	934.3	908.6	913.9	898.4	898.0
65°	795.3	777.5	779.4	772.5	772.5
67.5°	661.7	645.2	657.1	651.7	651.2
70°	563.5	552.4	568.0	568.0	565.8
72.5°	472.6	472.2	491.7	491.7	493.1
75°	343.1	358.7	379.5	381.7	381.7
77.5°	229.0	256.6	279.5	280.4	279.9
80°	163.6	194.7	215.9	220.4	218.1
82.5°	110.9	143.8	161.3	165.8	163.6
85°	50.0	76.6	90.9	93.1	90.9
87.5°	15.2	32.6	40.9	41.2	37.3
90°	3.5	10.3	22.7	24.4	22.7
92.5°	49.6	180.9	356.9	154.9	112.2
95°	117.1	411.0	1254.9	649.4	386.3
97.5°	188.1	471.4	1956.1	1618.8	1188.8
100°	241.2	495.8	2174.2	2267.5	1833.4
102.5°	290.1	529.7	2251.1	2759.3	2434.6
105°	379.3	586.0	2263.3	3338.6	3201.9
107.5°	461.8	650.4	2164.4	3700.0	3745.4
110°	526.1	697.0	2076.3	3797.0	3990.1

TEST NUMBER: P563148

CATALOG NUMBER: SQ4-PC3-150U-100D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	583.4	743.4	1995.2	3777.6	4102.0
115°	667.6	816.3	1877.1	3633.7	4102.0
117.5°	750.1	889.6	1799.1	3413.9	3944.7
120°	800.5	937.2	1753.0	3256.1	3797.9
122.5°	848.0	982.0	1725.0	3087.0	3632.9
125°	914.1	1047.4	1691.8	2854.9	3353.9
127.5°	974.9	1105.8	1672.2	2665.5	3104.4
130°	1008.5	1143.5	1663.9	2548.5	2945.0
132.5°	1043.4	1177.0	1655.5	2442.9	2807.9
135°	1095.8	1225.7	1646.4	2305.2	2609.4
137.5°	1148.6	1271.3	1638.7	2193.5	2441.3
140°	1185.0	1299.5	1635.9	2121.5	2342.0
142.5°	1219.9	1327.6	1630.3	2056.6	2249.7
145°	1274.1	1369.8	1623.7	1973.1	2123.5
147.5°	1323.4	1408.2	1616.0	1897.5	2013.1
150°	1359.7	1434.9	1613.2	1856.5	1948.7
152.5°	1393.3	1458.9	1611.8	1818.3	1894.2
155°	1438.4	1494.8	1609.7	1770.0	1828.1
157.5°	1485.2	1524.5	1610.0	1736.4	1774.7
160°	1511.8	1544.3	1611.4	1715.2	1742.5
162.5°	1532.8	1559.8	1612.8	1698.2	1718.7
165°	1566.0	1581.4	1616.7	1679.8	1688.3
167.5°	1588.7	1599.3	1617.0	1664.0	1668.1
170°	1602.7	1607.8	1618.4	1656.9	1656.9
172.5°	1613.9	1614.9	1618.4	1648.4	1647.1
175°	1625.4	1623.7	1618.4	1639.3	1635.9
177.5°	1629.3	1625.2	1618.1	1632.0	1627.9
180°	1623.7	1623.7	1623.7	1623.7	1623.7

(END OF REPORT)