

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: P564468

Luminaire Tested: **SQ4-PR1-150U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564468  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-150U-075D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

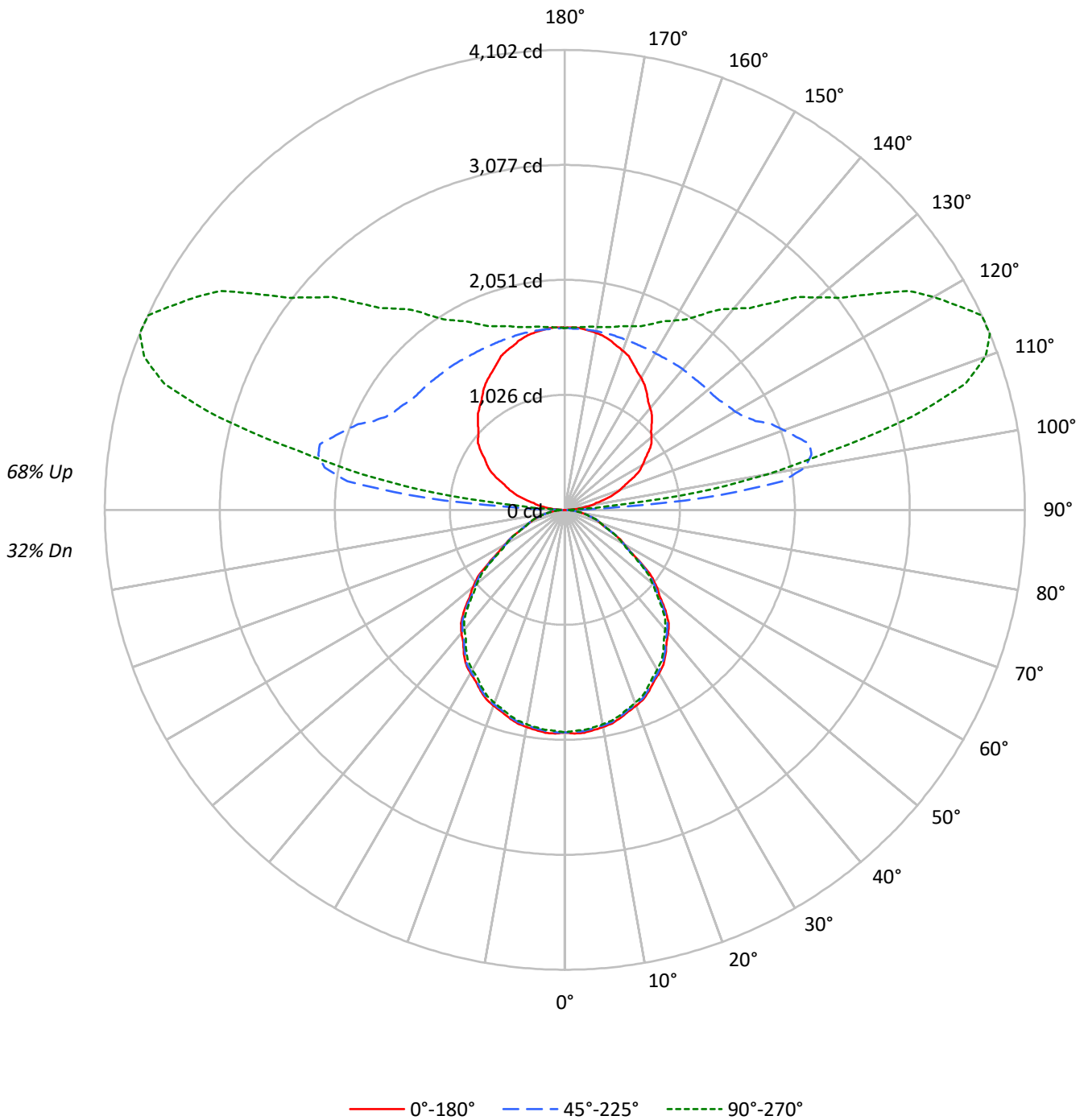
Lumens per Lamp: N/A  
Luminaire Lumens: 15435.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 131.1  
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	0
RCR																		
0	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

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

	0°	45°	90°
0°	9159	9159	9159
5°	9242	9170	9123
10°	9212	9148	9100
15°	9172	9115	9065
20°	9126	9067	8999
25°	9061	9000	8896
30°	8963	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6684	6533	6396
60°	5633	5586	5475
65°	4872	4890	4853
70°	4475	4498	4498
75°	4297	4297	4328
80°	4043	4088	4043
85°	3260	3620	3620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.8	1.2
10°-20°	537.2	3.5
20°-30°	810.2	5.2
30°-40°	965.4	6.3
40°-50°	951.8	6.2
50°-60°	727.4	4.7
60°-70°	450.1	2.9
70°-80°	255.7	1.7
80°-90°	81.2	0.5
90°-100°	754.6	4.9
100°-110°	2040.2	13.2
110°-120°	2145.0	13.9
120°-130°	1742.3	11.3
130°-140°	1366.7	8.9
140°-150°	1049.0	6.8
150°-160°	754.4	4.9
160°-170°	460.8	3.0
170°-180°	155.4	1.0
0°-30°	1535.1	9.9
0°-40°	2500.5	16.2
0°-60°	4179.7	27.1
0°-90°	4966.7	32.2
90°-120°	4939.8	32.0
90°-150°	9097.7	58.9
90°-180°	10468.0	67.8
0°-180°	15435.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1996	1974	1980	1973	1970	189
15°	1920	1900	1908	1902	1898	542
25°	1780	1758	1768	1749	1748	819
35°	1568	1550	1554	1534	1532	979
45°	1269	1252	1247	1224	1221	972
55°	831	818	812	798	795	745
65°	446	443	448	445	445	452
75°	241	241	241	243	243	255
85°	62	65	68	68	68	72
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	1997.7	1980.3	1985.4	1981.1	1971.7
5°	1995.7	1973.9	1980.3	1973.4	1970.0
7.5°	1980.3	1958.9	1965.2	1958.3	1956.3
10°	1966.6	1946.5	1952.9	1946.0	1942.7
12.5°	1951.5	1930.1	1937.9	1929.6	1926.2
15°	1920.4	1900.4	1908.5	1901.5	1898.2
17.5°	1886.2	1864.8	1872.9	1864.9	1860.6
20°	1858.9	1838.8	1846.9	1834.9	1833.2
22.5°	1828.8	1808.7	1816.8	1800.7	1800.4
25°	1780.2	1758.5	1768.2	1749.4	1747.7
27.5°	1722.4	1702.3	1710.4	1691.2	1689.2
30°	1682.7	1662.7	1670.8	1650.2	1646.8
32.5°	1637.6	1618.9	1625.6	1605.0	1603.0
35°	1568.1	1549.8	1554.5	1533.9	1532.2
37.5°	1489.1	1472.4	1475.1	1452.5	1450.8
40°	1433.1	1416.3	1417.7	1393.7	1392.0
42.5°	1371.5	1354.8	1353.4	1329.4	1327.7
45°	1268.9	1252.2	1246.7	1224.3	1221.0
47.5°	1151.9	1135.2	1124.9	1106.7	1104.4
50°	1067.1	1050.4	1041.4	1025.9	1020.9
52.5°	975.4	958.7	951.1	937.0	932.0
55°	831.1	817.7	812.3	798.5	795.2
57.5°	694.0	684.9	683.4	670.0	668.6
60°	610.5	605.5	605.4	593.4	593.4
62.5°	539.4	535.7	538.3	530.4	529.1
65°	446.3	443.0	448.0	444.6	444.6
67.5°	372.8	372.8	375.9	374.5	374.5
70°	331.8	331.8	333.5	333.5	333.5
72.5°	294.8	293.5	297.9	297.9	296.5
75°	241.1	241.1	241.1	242.8	242.8
77.5°	187.8	188.1	189.5	189.1	187.8
80°	152.2	153.9	153.9	152.2	152.2
82.5°	116.6	118.3	118.3	118.0	116.6
85°	61.6	64.9	68.4	68.4	68.4
87.5°	18.5	25.2	31.9	32.2	30.5
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

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**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)