

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: P564492

Luminaire Tested: **SQ4-PR1-150U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564492
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-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

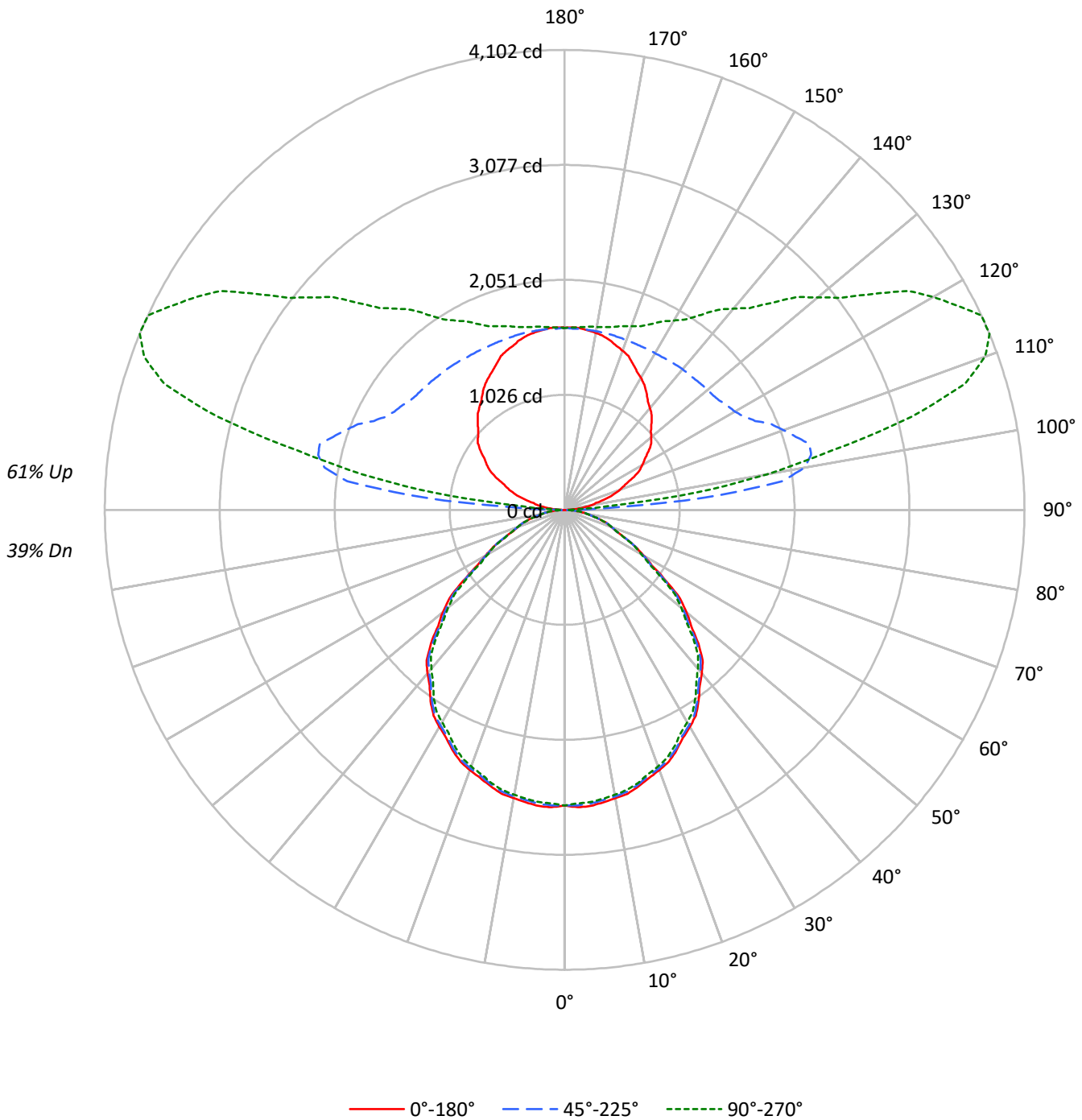
Lumens per Lamp: N/A
Luminaire Lumens: 17066.5 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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



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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	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33				
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28				
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24				
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21				
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16				
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13				
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11				
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12045
20°	12125	12047	11958
25°	12040	11958	11820
30°	11910	11825	11655
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10175	9931	9735
55°	8882	8680	8498
60°	7484	7422	7275
65°	6473	6498	6449
70°	5945	5976	5976
75°	5711	5711	5752
80°	5372	5433	5372
85°	4330	4811	4811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	1.5
10°-20°	713.7	4.2
20°-30°	1076.5	6.3
30°-40°	1282.7	7.5
40°-50°	1264.6	7.4
50°-60°	966.5	5.7
60°-70°	598.1	3.5
70°-80°	339.7	2.0
80°-90°	106.7	0.6
90°-100°	754.6	4.4
100°-110°	2040.2	12.0
110°-120°	2145.0	12.6
120°-130°	1742.3	10.2
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°	2039.8	12.0
0°-40°	3322.5	19.5
0°-60°	5553.6	32.5
0°-90°	6598.1	38.7
90°-120°	4939.8	28.9
90°-150°	9097.7	53.3
90°-180°	10468.0	61.3
0°-180°	17066.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2652	2623	2631	2622	2618	252
15°	2552	2525	2536	2527	2522	720
25°	2365	2336	2349	2324	2322	1089
35°	2084	2059	2065	2038	2036	1300
45°	1686	1664	1656	1627	1622	1292
55°	1104	1086	1079	1061	1057	989
65°	593	589	595	591	591	601
75°	320	320	320	323	323	338
85°	82	86	91	91	91	95
90°	4	10	23	24	23	11
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°	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2654.4	2631.3	2638.0	2632.3	2619.8
5°	2651.7	2622.8	2631.2	2622.0	2617.6
7.5°	2631.2	2602.8	2611.2	2602.1	2599.4
10°	2613.0	2586.4	2594.8	2585.7	2581.2
12.5°	2593.0	2564.6	2574.9	2563.8	2559.4
15°	2551.7	2525.0	2535.8	2526.6	2522.1
17.5°	2506.2	2477.8	2488.5	2477.9	2472.1
20°	2469.9	2443.2	2454.0	2438.0	2435.8
22.5°	2429.9	2403.2	2414.0	2392.6	2392.2
25°	2365.4	2336.5	2349.4	2324.4	2322.2
27.5°	2288.6	2261.9	2272.6	2247.1	2244.5
30°	2235.8	2209.2	2219.9	2192.6	2188.1
32.5°	2175.9	2151.0	2159.9	2132.6	2130.0
35°	2083.6	2059.2	2065.4	2038.1	2035.9
37.5°	1978.6	1956.4	1960.0	1930.0	1927.7
40°	1904.1	1881.9	1883.6	1851.8	1849.6
42.5°	1822.3	1800.1	1798.2	1766.4	1764.1
45°	1686.0	1663.8	1656.4	1626.8	1622.3
47.5°	1530.6	1508.3	1494.6	1470.5	1467.4
50°	1417.8	1395.6	1383.8	1363.2	1356.5
52.5°	1296.1	1273.8	1263.8	1245.0	1238.3
55°	1104.3	1086.5	1079.3	1061.0	1056.6
57.5°	922.1	910.1	908.0	890.2	888.4
60°	811.2	804.5	804.4	788.5	788.5
62.5°	716.7	711.8	715.3	704.8	703.0
65°	593.0	588.6	595.3	590.8	590.8
67.5°	495.3	495.3	499.4	497.6	497.6
70°	440.8	440.8	443.1	443.1	443.1
72.5°	391.7	389.9	395.8	395.8	394.0
75°	320.4	320.4	320.4	322.7	322.7
77.5°	249.5	249.9	251.8	251.3	249.5
80°	202.2	204.4	204.5	202.2	202.2
82.5°	155.0	157.2	157.2	156.7	155.0
85°	81.8	86.2	90.9	90.9	90.9
87.5°	24.3	32.8	40.9	41.2	39.1
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)