

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: P565132

Luminaire Tested: **SQ4-PW1-150U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565132  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PW1-150U-075D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

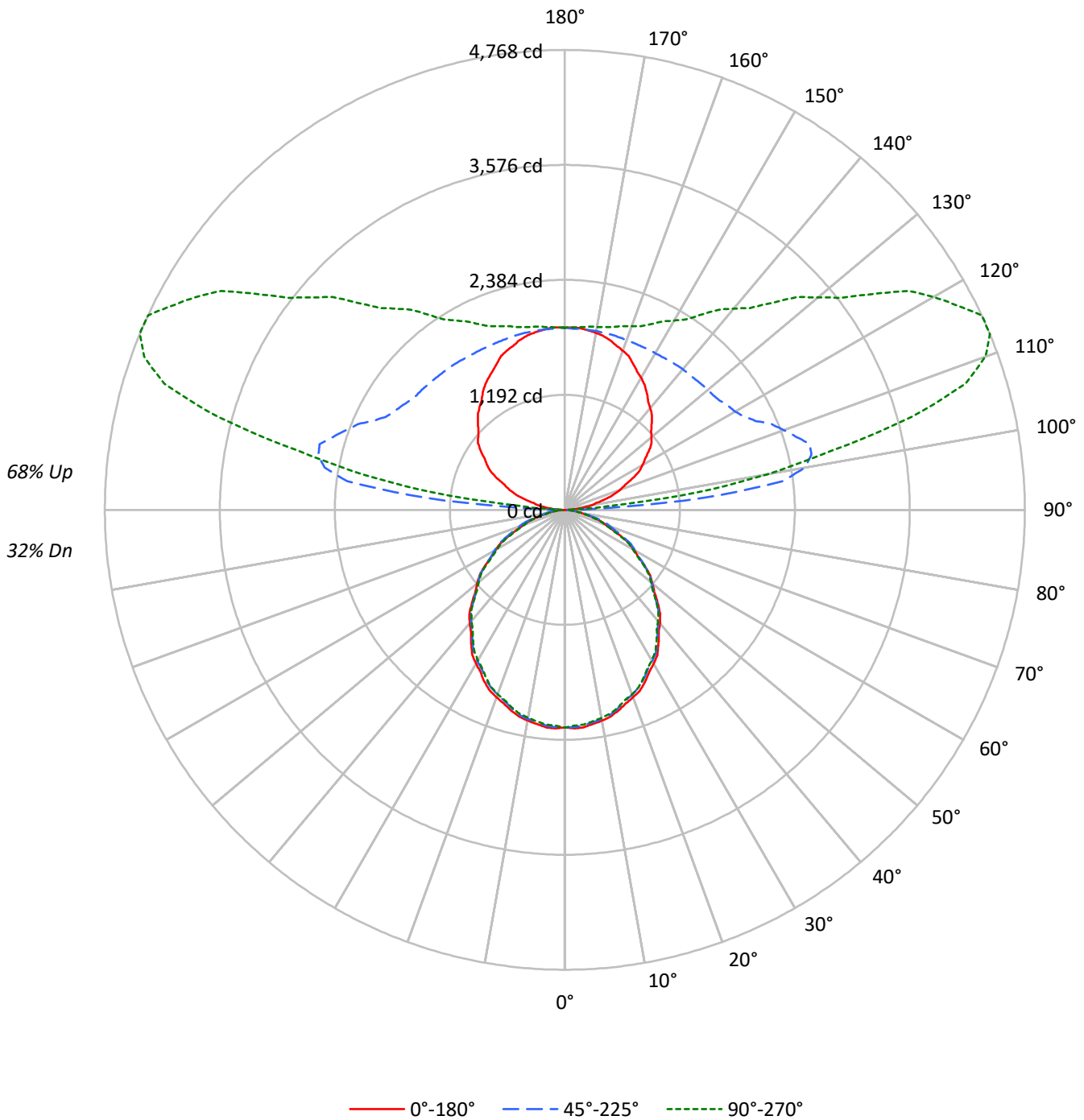
Lumens per Lamp: N/A  
Luminaire Lumens: 17913.7 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 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	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	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	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	10409	10409	10409
5°	10476	10393	10347
10°	10392	10308	10252
15°	10282	10168	10130
20°	10159	10003	9984
25°	10018	9835	9805
30°	9805	9657	9594
35°	9527	9393	9337
40°	9230	9086	9050
45°	8871	8754	8715
50°	8503	8432	8375
55°	8106	8106	7978
60°	7612	7758	7483
65°	6965	7312	6792
70°	6140	6730	5979
75°	5244	6023	5103
80°	4067	5069	4120
85°	2631	3896	3472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.5	1.2
10°-20°	599.8	3.3
20°-30°	889.8	5.0
30°-40°	1041.1	5.8
40°-50°	1036.5	5.8
50°-60°	895.0	5.0
60°-70°	644.3	3.6
70°-80°	337.9	1.9
80°-90°	87.7	0.5
90°-100°	877.2	4.9
100°-110°	2371.7	13.2
110°-120°	2493.5	13.9
120°-130°	2025.4	11.3
130°-140°	1588.7	8.9
140°-150°	1219.4	6.8
150°-160°	877.0	4.9
160°-170°	535.7	3.0
170°-180°	180.6	1.0
0°-30°	1702.1	9.5
0°-40°	2743.2	15.3
0°-60°	4674.7	26.1
0°-90°	5744.6	32.1
90°-120°	5742.4	32.1
90°-150°	10575.8	59.0
90°-180°	12169.0	67.9
0°-180°	17913.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2256	2256	2256	2256	2256	
5°	2262	2237	2244	2238	2234	214
15°	2153	2126	2129	2125	2121	607
25°	1968	1935	1932	1920	1926	905
35°	1692	1668	1668	1652	1658	1058
45°	1360	1348	1342	1338	1336	1049
55°	1008	1006	1008	994	992	899
65°	638	658	670	644	622	632
75°	294	321	338	315	286	315
85°	50	65	74	70	66	66
90°	4	12	26	28	26	11
95°	136	478	1459	755	449	142
105°	441	681	2631	3881	3722	464
115°	776	949	2182	4224	4768	766
125°	1063	1218	1967	3319	3899	947
135°	1274	1425	1914	2680	3033	984
145°	1481	1592	1888	2294	2468	927
155°	1672	1738	1871	2058	2125	771
165°	1820	1838	1879	1953	1963	513
175°	1890	1888	1881	1906	1902	179
180°	1888	1888	1888	1888	1888	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2256.3	2256.3	2256.3	2256.3	2256.3
2.5°	2269.0	2250.4	2256.3	2251.3	2240.4
5°	2262.3	2237.0	2244.4	2238.3	2234.4
7.5°	2239.2	2215.9	2221.3	2214.9	2212.6
10°	2218.5	2195.2	2200.6	2192.6	2188.7
12.5°	2194.7	2169.8	2175.2	2167.2	2164.9
15°	2152.9	2125.7	2129.1	2125.0	2121.1
17.5°	2104.4	2076.8	2077.4	2071.0	2070.2
20°	2069.4	2040.3	2037.6	2029.8	2033.7
22.5°	2031.3	2000.6	1997.9	1986.9	1992.3
25°	1968.1	1935.0	1932.3	1920.5	1926.3
27.5°	1894.9	1862.2	1862.3	1845.7	1852.0
30°	1840.8	1809.7	1813.0	1793.3	1801.1
32.5°	1783.6	1755.6	1757.3	1737.6	1745.4
35°	1691.7	1668.4	1667.9	1652.1	1657.9
37.5°	1597.9	1577.3	1574.0	1564.9	1566.5
40°	1532.7	1515.2	1508.8	1502.9	1502.9
42.5°	1464.3	1448.4	1442.0	1437.6	1436.1
45°	1359.7	1348.1	1341.9	1337.8	1335.9
47.5°	1256.4	1245.5	1240.1	1237.2	1235.3
50°	1184.8	1177.0	1174.9	1168.9	1166.9
52.5°	1113.2	1108.6	1106.5	1098.9	1096.9
55°	1007.9	1005.9	1007.9	993.9	992.0
57.5°	898.1	901.3	907.7	888.9	884.2
60°	825.0	832.8	840.9	818.9	811.1
62.5°	750.2	762.7	774.1	748.8	737.9
65°	638.1	657.6	669.9	643.6	622.2
67.5°	530.0	554.1	568.9	540.6	516.5
70°	455.2	482.4	499.0	470.5	443.3
72.5°	390.0	420.4	433.8	406.9	379.7
75°	294.2	321.4	337.9	315.4	286.3
77.5°	208.7	234.4	248.1	228.5	204.4
80°	153.1	180.3	190.8	174.5	155.1
82.5°	108.5	131.1	138.4	128.5	115.3
85°	49.7	65.2	73.6	69.5	65.6
87.5°	13.5	26.0	35.5	35.9	37.1
90°	4.1	12.0	26.4	28.4	26.4
92.5°	57.7	210.3	414.9	180.1	130.4
95°	136.1	477.8	1458.8	754.9	449.0
97.5°	218.6	548.0	2273.9	1881.8	1382.0
100°	280.4	576.4	2527.4	2635.8	2131.3
102.5°	337.3	615.8	2616.8	3207.6	2830.2
105°	440.9	681.3	2631.1	3881.0	3722.1
107.5°	536.8	756.1	2516.1	4301.1	4354.0
110°	611.5	810.2	2413.7	4413.9	4638.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	678.2	864.1	2319.4	4391.4	4768.4
115°	776.1	948.9	2182.1	4224.1	4768.4
117.5°	872.0	1034.1	2091.4	3968.5	4585.6
120°	930.5	1089.4	2037.8	3785.2	4414.9
122.5°	985.8	1141.5	2005.3	3588.6	4223.1
125°	1062.6	1217.5	1966.7	3318.8	3898.8
127.5°	1133.3	1285.5	1943.9	3098.6	3608.7
130°	1172.3	1329.2	1934.2	2962.5	3423.4
132.5°	1212.9	1368.3	1924.4	2839.8	3264.1
135°	1273.9	1424.9	1913.9	2679.7	3033.3
137.5°	1335.2	1477.9	1904.9	2549.8	2837.9
140°	1377.5	1510.6	1901.7	2466.2	2722.5
142.5°	1418.1	1543.3	1895.2	2390.7	2615.2
145°	1481.1	1592.4	1887.5	2293.7	2468.5
147.5°	1538.4	1636.9	1878.5	2205.8	2340.1
150°	1580.7	1668.1	1875.3	2158.1	2265.4
152.5°	1619.7	1696.0	1873.6	2113.8	2202.0
155°	1672.1	1737.7	1871.2	2057.6	2125.2
157.5°	1726.5	1772.2	1871.6	2018.5	2063.0
160°	1757.4	1795.2	1873.2	1993.8	2025.6
162.5°	1781.8	1813.2	1874.9	1974.1	1998.0
165°	1820.4	1838.3	1879.3	1952.7	1962.6
167.5°	1846.8	1859.1	1879.7	1934.3	1939.1
170°	1863.1	1869.0	1881.4	1926.1	1926.1
172.5°	1876.1	1877.3	1881.4	1916.3	1914.7
175°	1889.5	1887.5	1881.4	1905.7	1901.7
177.5°	1894.0	1889.2	1881.0	1897.1	1892.3
180°	1887.5	1887.5	1887.5	1887.5	1887.5

(END OF REPORT)