

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: P564460

Luminaire Tested: **SQ4-PR1-150U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564460  
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-840-1D-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

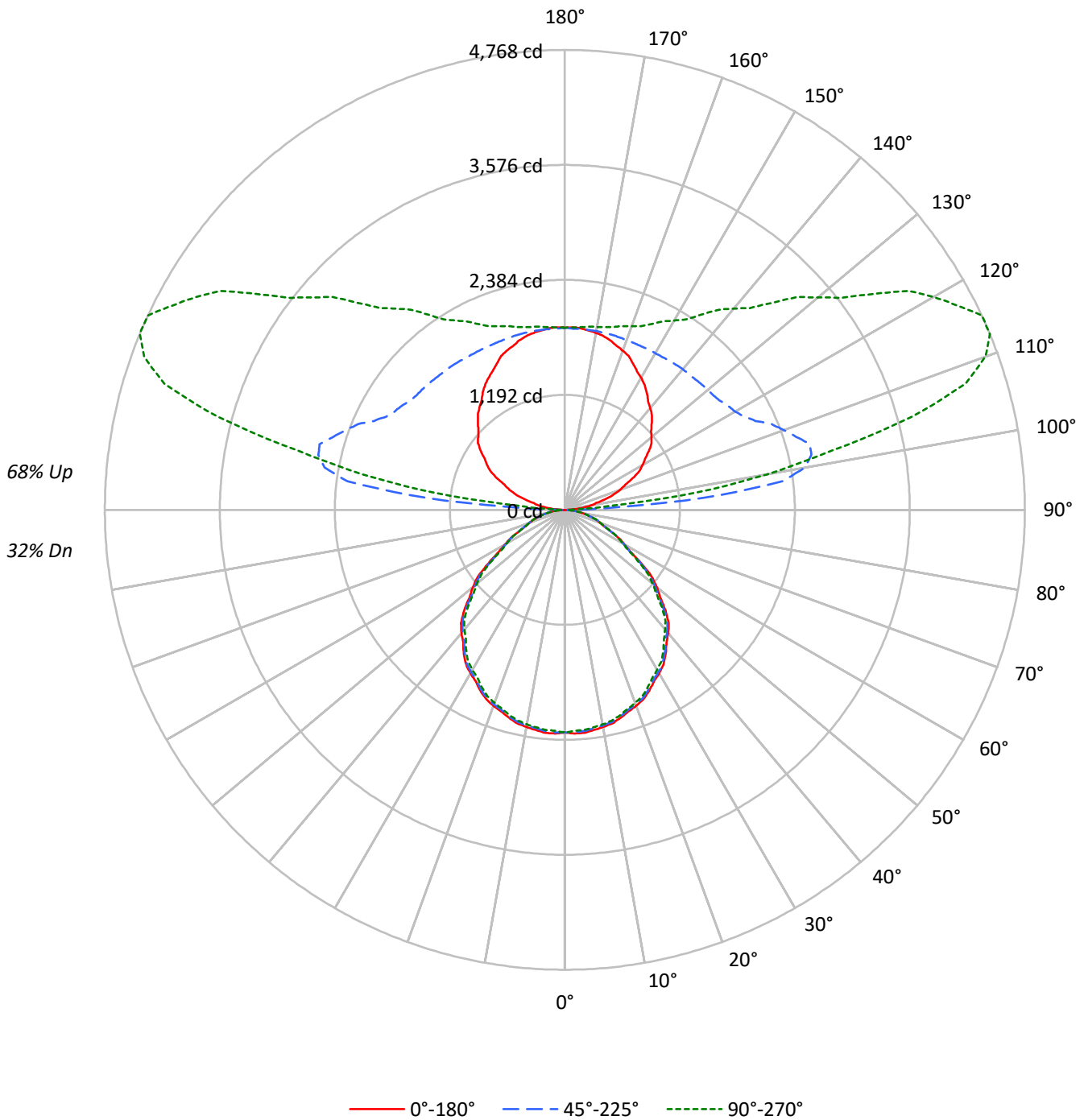
Lumens per Lamp: N/A  
Luminaire Lumens: 17942.8 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

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°	10647	10647	10647
5°	10743	10660	10605
10°	10709	10634	10578
15°	10662	10595	10538
20°	10608	10540	10462
25°	10533	10462	10341
30°	10420	10346	10198
35°	10266	10176	10031
40°	10032	9924	9745
45°	9623	9454	9260
50°	8903	8688	8517
55°	7770	7595	7435
60°	6548	6492	6364
65°	5663	5685	5642
70°	5202	5228	5228
75°	4996	4996	5032
80°	4699	4753	4699
85°	3790	4208	4208



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.3	1.2
10°-20°	624.4	3.5
20°-30°	941.9	5.2
30°-40°	1122.2	6.3
40°-50°	1106.4	6.2
50°-60°	845.6	4.7
60°-70°	523.3	2.9
70°-80°	297.2	1.7
80°-90°	94.3	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°	1784.6	9.9
0°-40°	2906.8	16.2
0°-60°	4858.8	27.1
0°-90°	5773.7	32.2
90°-120°	5742.4	32.0
90°-150°	10575.8	58.9
90°-180°	12169.0	67.8
0°-180°	17942.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2320	2295	2302	2294	2290	220
15°	2232	2209	2218	2210	2207	630
25°	2069	2044	2056	2034	2032	952
35°	1823	1802	1807	1783	1781	1138
45°	1475	1456	1449	1423	1419	1130
55°	966	951	944	928	924	866
65°	519	515	521	517	517	526
75°	280	280	280	282	282	296
85°	72	76	80	80	80	83
90°	4	12	26	28	26	12
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°	2308.0	2308.0	2308.0	2308.0	2308.0
2.5°	2322.3	2302.1	2308.0	2303.0	2292.1
5°	2319.9	2294.6	2302.0	2294.0	2290.1
7.5°	2302.0	2277.1	2284.5	2276.5	2274.2
10°	2286.1	2262.8	2270.2	2262.2	2258.3
12.5°	2268.6	2243.7	2252.7	2243.1	2239.2
15°	2232.4	2209.1	2218.5	2210.5	2206.6
17.5°	2192.7	2167.8	2177.2	2167.9	2162.9
20°	2160.9	2137.5	2147.0	2133.0	2131.1
22.5°	2125.9	2102.6	2112.0	2093.3	2092.9
25°	2069.4	2044.2	2055.5	2033.6	2031.7
27.5°	2002.2	1978.9	1988.3	1966.0	1963.7
30°	1956.1	1932.8	1942.2	1918.3	1914.4
32.5°	1903.6	1881.9	1889.7	1865.8	1863.5
35°	1822.9	1801.5	1807.0	1783.1	1781.2
37.5°	1731.1	1711.6	1714.8	1688.5	1686.6
40°	1665.9	1646.4	1648.0	1620.1	1618.2
42.5°	1594.3	1574.9	1573.2	1545.4	1543.4
45°	1475.0	1455.6	1449.2	1423.3	1419.4
47.5°	1339.1	1319.6	1307.7	1286.5	1283.8
50°	1240.5	1221.0	1210.6	1192.6	1186.8
52.5°	1133.9	1114.5	1105.7	1089.3	1083.4
55°	966.1	950.6	944.3	928.3	924.4
57.5°	806.7	796.2	794.4	778.8	777.3
60°	709.7	703.9	703.7	689.8	689.8
62.5°	627.0	622.7	625.8	616.6	615.1
65°	518.8	515.0	520.8	516.9	516.9
67.5°	433.4	433.4	436.9	435.4	435.4
70°	385.7	385.7	387.6	387.6	387.6
72.5°	342.7	341.2	346.3	346.3	344.7
75°	280.3	280.3	280.3	282.3	282.3
77.5°	218.3	218.7	220.3	219.8	218.3
80°	176.9	178.9	178.9	176.9	176.9
82.5°	135.6	137.5	137.6	137.1	135.6
85°	71.6	75.5	79.5	79.5	79.5
87.5°	21.5	29.3	37.1	37.5	35.5
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)