

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P520516

Luminaire Tested: **4WSLA-150-L850-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 4WSLA-150-L850-UNV-U  
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

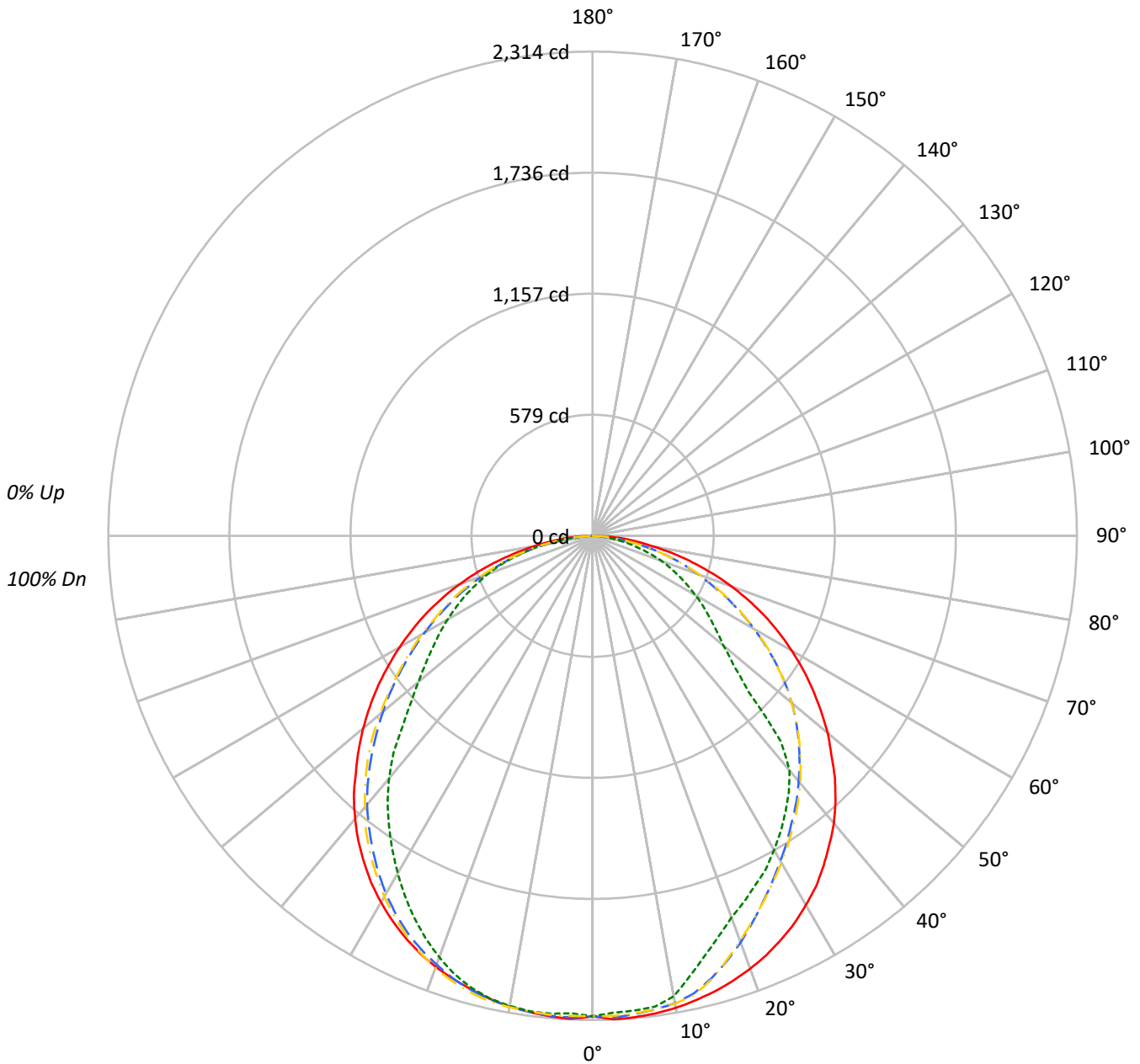
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6160.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 47.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84								
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70								
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60								
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51								
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44								
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39								
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34								
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31								
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28								
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25								

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

	0°	90°	180°	270°
0°	12358	12358	12358	12358
5°	12479	12306	12459	12385
10°	12522	12212	12489	12468
15°	12561	11565	12506	12465
20°	12608	11112	12559	12277
25°	12648	10929	12583	11968
30°	12662	10772	12571	11575
35°	12642	10562	12513	11145
40°	12601	10282	12402	10628
45°	12461	7989	12180	9752
50°	12275	6838	11975	9097
55°	12056	6404	11744	8750
60°	11827	6113	11470	8606
65°	11547	5789	11154	8503
70°	11087	5506	10623	8375
75°	10324	4841	9836	7966
80°	9165	4048	8591	6757
85°	8670	2890	7608	3878



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.2	3.5
10°-20°	622.3	10.1
20°-30°	929.9	15.1
30°-40°	1106.9	18.0
40°-50°	1106.4	18.0
50°-60°	952.0	15.5
60°-70°	716.6	11.6
70°-80°	408.3	6.6
80°-90°	99.4	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1770.4	28.7
0°-40°	2877.3	46.7
0°-60°	4935.7	80.1
0°-90°	6160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6160.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2296	2296	2296	2296	2296	
5°	2310	2278	2306	2292	2310	220
15°	2254	2076	2244	2237	2254	637
25°	2130	1840	2119	2015	2130	982
35°	1924	1608	1904	1696	1924	1204
45°	1637	1050	1600	1281	1637	1261
55°	1285	682	1252	932	1285	1149
65°	907	455	876	668	907	895
75°	496	233	473	383	496	526
85°	140	47	123	63	140	153
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2
2.5°	2313.5	2292.5	2304.9	2301.2	2281.5	2288.9	2296.2	2288.9	2311.0	2291.3	2304.9
5°	2309.8	2287.6	2295.0	2287.6	2277.8	2280.2	2291.3	2283.9	2306.1	2285.2	2302.4
7.5°	2302.4	2275.3	2282.7	2279.0	2270.4	2271.6	2282.7	2276.5	2296.2	2276.5	2296.2
10°	2291.3	2263.0	2269.1	2253.1	2234.6	2248.2	2270.4	2264.2	2285.2	2263.0	2285.2
12.5°	2274.1	2245.7	2239.6	2186.6	2153.3	2179.2	2247.0	2247.0	2266.7	2245.7	2269.1
15°	2254.4	2223.6	2190.3	2110.2	2075.7	2101.6	2195.2	2227.3	2244.5	2223.6	2247.0
17.5°	2231.0	2195.2	2131.2	2037.5	2005.5	2031.4	2127.5	2197.7	2219.9	2197.7	2218.6
20°	2201.4	2159.5	2068.3	1961.2	1940.2	1963.6	2059.7	2162.0	2192.8	2165.7	2180.4
22.5°	2169.4	2118.9	1998.1	1902.0	1892.2	1907.0	1994.4	2117.6	2158.3	2129.9	2139.8
25°	2129.9	2070.8	1927.9	1847.8	1840.4	1849.1	1930.4	2065.9	2118.9	2089.3	2093.0
27.5°	2088.1	2024.0	1861.4	1802.3	1794.9	1798.6	1866.3	2008.0	2073.3	2043.7	2037.5
30°	2037.5	1968.6	1794.9	1740.7	1733.3	1746.8	1804.7	1948.9	2022.8	1993.2	1974.7
32.5°	1987.0	1908.2	1729.6	1687.7	1672.9	1685.2	1740.7	1887.3	1967.3	1936.5	1905.7
35°	1924.2	1844.1	1661.8	1619.9	1607.6	1621.2	1676.6	1823.2	1904.5	1873.7	1831.8
37.5°	1858.9	1776.4	1600.2	1562.0	1539.9	1555.9	1611.3	1756.7	1839.2	1807.2	1755.4
40°	1793.6	1704.9	1531.2	1491.8	1463.5	1486.9	1543.6	1686.5	1765.3	1735.7	1676.6
42.5°	1717.3	1633.5	1463.5	1408.1	1328.0	1403.1	1470.9	1616.2	1688.9	1660.6	1589.1
45°	1637.2	1557.1	1392.0	1257.8	1049.6	1270.1	1397.0	1542.3	1600.2	1573.1	1495.5
47.5°	1546.0	1478.3	1319.4	1114.9	912.8	1127.2	1321.8	1472.1	1516.5	1486.9	1400.7
50°	1466.0	1399.4	1243.0	994.1	816.7	1007.7	1241.7	1393.3	1430.2	1403.1	1307.0
52.5°	1374.8	1316.9	1160.4	887.0	745.3	900.5	1158.0	1312.0	1341.5	1309.5	1213.4
55°	1284.9	1233.1	1073.0	792.1	682.5	804.4	1070.5	1228.2	1251.6	1214.6	1114.9
57.5°	1193.7	1146.9	983.0	707.1	624.6	720.7	989.2	1142.0	1158.0	1111.2	1020.0
60°	1098.8	1059.4	891.9	632.0	567.9	643.0	889.4	1055.7	1065.6	1015.1	927.6
62.5°	1004.0	968.3	800.7	563.0	510.0	570.4	806.9	964.6	970.7	922.7	832.8
65°	906.7	873.4	712.0	490.3	454.6	502.6	718.2	869.7	875.9	821.7	740.4
67.5°	805.7	778.6	617.2	434.9	401.6	438.6	629.5	773.6	777.3	724.4	650.4
70°	704.6	681.2	533.4	374.5	349.9	375.7	542.0	667.7	675.1	618.4	559.3
72.5°	601.2	582.7	452.1	311.7	289.5	311.7	457.0	570.4	575.3	528.5	470.6
75°	496.5	482.9	369.6	250.1	232.8	248.8	372.0	473.0	473.0	428.7	383.1
77.5°	395.4	385.6	283.3	192.2	179.9	189.7	284.6	374.5	372.0	337.5	301.8
80°	295.7	288.3	203.3	139.2	130.6	135.5	203.3	277.2	277.2	252.5	209.4
82.5°	211.9	203.3	134.3	91.2	86.2	88.7	131.8	193.4	197.1	178.6	141.7
85°	140.4	120.7	72.7	50.5	46.8	48.0	69.0	112.1	123.2	103.5	73.9
87.5°	61.6	40.7	18.5	7.4	3.7	4.9	14.8	35.7	46.8	30.8	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2296.2	2296.2	2296.2	2296.2	2296.2	2296.2
2.5°	2303.6	2283.9	2291.3	2296.2	2291.3	2313.5
5°	2301.2	2292.5	2291.3	2297.5	2287.6	2309.8
7.5°	2297.5	2292.5	2291.3	2293.8	2281.5	2302.4
10°	2288.9	2281.5	2283.9	2287.6	2271.6	2291.3
12.5°	2272.8	2265.4	2266.7	2279.0	2256.8	2274.1
15°	2245.7	2237.1	2245.7	2259.3	2239.6	2254.4
17.5°	2210.0	2196.5	2211.2	2232.2	2217.4	2231.0
20°	2164.4	2143.5	2159.5	2197.7	2184.1	2201.4
22.5°	2109.0	2083.1	2099.1	2154.6	2150.9	2169.4
25°	2046.2	2015.4	2037.5	2105.3	2112.7	2129.9
27.5°	1976.0	1941.5	1971.0	2051.1	2068.3	2088.1
30°	1899.6	1862.6	1897.1	1990.7	2016.6	2037.5
32.5°	1820.7	1780.1	1819.5	1923.0	1959.9	1987.0
35°	1738.2	1696.3	1740.7	1852.8	1897.1	1924.2
37.5°	1649.5	1608.8	1656.9	1778.9	1831.8	1858.9
40°	1558.3	1512.8	1567.0	1691.4	1761.6	1793.6
42.5°	1464.7	1408.1	1474.6	1608.8	1685.2	1717.3
45°	1360.0	1281.2	1371.1	1521.4	1601.5	1637.2
47.5°	1255.3	1176.5	1267.6	1427.8	1514.0	1546.0
50°	1154.3	1086.5	1159.2	1325.5	1425.3	1466.0
52.5°	1061.9	1006.5	1068.0	1225.7	1334.1	1374.8
55°	975.7	932.5	983.0	1127.2	1238.1	1284.9
57.5°	894.4	867.3	901.7	1033.6	1149.4	1193.7
60°	818.0	799.5	824.1	941.2	1044.6	1098.8
62.5°	742.8	733.0	751.5	843.8	947.3	1004.0
65°	670.1	667.7	677.5	758.8	845.1	906.7
67.5°	597.5	596.2	602.4	668.9	745.3	805.7
70°	524.8	532.2	528.5	571.6	645.5	704.6
72.5°	450.9	462.0	455.8	482.9	554.4	601.2
75°	368.3	383.1	370.8	401.6	445.9	496.5
77.5°	283.3	299.3	284.6	311.7	359.7	395.4
80°	203.3	218.0	205.7	226.7	268.6	295.7
82.5°	128.1	139.2	129.3	150.3	192.2	211.9
85°	56.7	62.8	65.3	81.3	118.3	140.4
87.5°	2.5	1.2	2.5	16.0	41.9	61.6
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°









(END OF REPORT)