

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: P520552

Luminaire Tested: **4WSLA-175-L950-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520552  
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-175-L950-UNV-U  
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

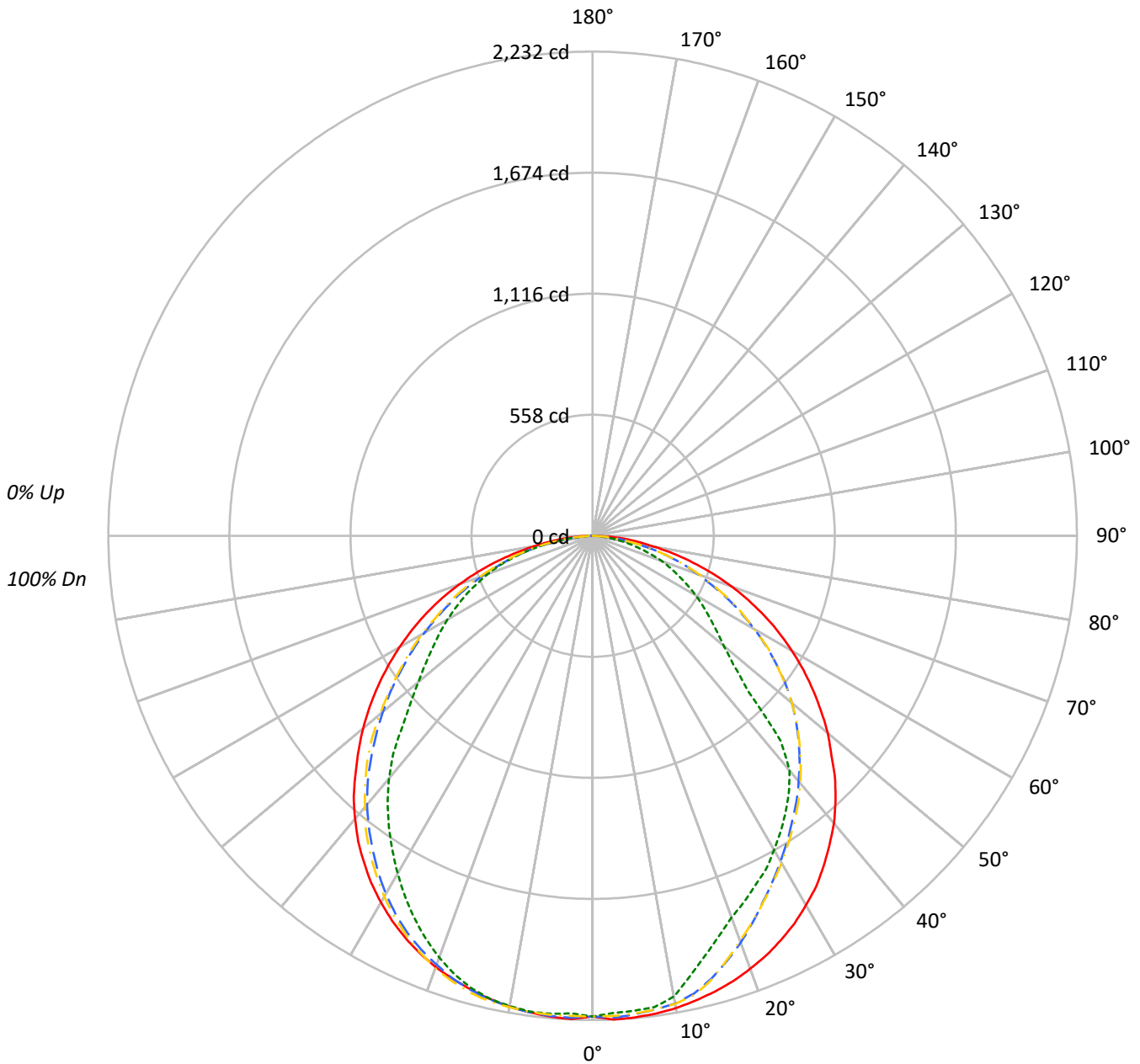
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5944.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 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): 59.5  
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									
RC	80									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°	11925	11925	11925	11925
5°	12041	11874	12022	11951
10°	12083	11784	12050	12031
15°	12120	11160	12067	12028
20°	12166	10723	12119	11846
25°	12205	10546	12142	11548
30°	12218	10394	12130	11169
35°	12199	10192	12074	10754
40°	12159	9922	11967	10255
45°	12024	7709	11753	9409
50°	11843	6599	11555	8778
55°	11633	6179	11332	8443
60°	11413	5899	11067	8304
65°	11142	5585	10763	8205
70°	10699	5312	10250	8080
75°	9960	4672	9493	7688
80°	8842	3905	8291	6521
85°	8367	2791	7342	3742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.5	3.5
10°-20°	600.5	10.1
20°-30°	897.3	15.1
30°-40°	1068.1	18.0
40°-50°	1067.6	18.0
50°-60°	918.7	15.5
60°-70°	691.4	11.6
70°-80°	394.0	6.6
80°-90°	95.9	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°	1708.3	28.7
0°-40°	2776.4	46.7
0°-60°	4762.6	80.1
0°-90°	5944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5944.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2216	2216	2216	2216	2216	
5°	2229	2198	2225	2212	2229	212
15°	2175	2003	2166	2159	2175	615
25°	2055	1776	2045	1945	2055	948
35°	1857	1551	1838	1637	1857	1162
45°	1580	1013	1544	1236	1580	1217
55°	1240	658	1208	900	1240	1108
65°	875	439	845	644	875	864
75°	479	225	456	370	479	507
85°	136	45	119	61	136	147
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°	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7
2.5°	2232.4	2212.2	2224.0	2220.5	2201.5	2208.6	2215.7	2208.6	2230.0	2211.0	2224.0
5°	2228.8	2207.4	2214.5	2207.4	2197.9	2200.3	2211.0	2203.8	2225.2	2205.0	2221.7
7.5°	2221.7	2195.5	2202.7	2199.1	2190.8	2192.0	2202.7	2196.7	2215.7	2196.7	2215.7
10°	2211.0	2183.6	2189.6	2174.1	2156.3	2169.4	2190.8	2184.8	2205.0	2183.6	2205.0
12.5°	2194.3	2167.0	2161.0	2109.9	2077.8	2102.8	2168.2	2168.2	2187.2	2167.0	2189.6
15°	2175.3	2145.6	2113.5	2036.2	2003.0	2027.9	2118.3	2149.2	2165.8	2145.6	2168.2
17.5°	2152.7	2118.3	2056.4	1966.1	1935.2	1960.2	2052.9	2120.6	2142.0	2120.6	2140.8
20°	2124.2	2083.8	1995.8	1892.4	1872.2	1894.8	1987.5	2086.2	2115.9	2089.7	2104.0
22.5°	2093.3	2044.6	1928.1	1835.3	1825.8	1840.1	1924.5	2043.4	2082.6	2055.3	2064.8
25°	2055.3	1998.2	1860.3	1783.0	1775.9	1784.2	1862.7	1993.4	2044.6	2016.0	2019.6
27.5°	2014.8	1953.0	1796.1	1739.1	1731.9	1735.5	1800.9	1937.6	2000.6	1972.0	1966.1
30°	1966.1	1899.5	1731.9	1679.6	1672.5	1685.6	1741.4	1880.5	1951.8	1923.3	1905.5
32.5°	1917.4	1841.3	1668.9	1628.5	1614.2	1626.1	1679.6	1821.1	1898.3	1868.6	1838.9
35°	1856.7	1779.5	1603.5	1563.1	1551.2	1564.3	1617.8	1759.3	1837.7	1808.0	1767.6
37.5°	1793.7	1714.1	1544.1	1507.3	1485.9	1501.3	1554.8	1695.1	1774.7	1743.8	1693.9
40°	1730.7	1645.2	1477.5	1439.5	1412.2	1434.8	1489.4	1627.3	1703.4	1674.9	1617.8
42.5°	1657.0	1576.2	1412.2	1358.7	1281.4	1353.9	1419.3	1559.6	1629.7	1602.4	1533.4
45°	1579.8	1502.5	1343.2	1213.7	1012.8	1225.5	1348.0	1488.2	1544.1	1518.0	1443.1
47.5°	1491.8	1426.4	1273.1	1075.8	880.8	1087.7	1275.5	1420.5	1463.3	1434.8	1351.5
50°	1414.5	1350.4	1199.4	959.3	788.1	972.4	1198.2	1344.4	1380.1	1353.9	1261.2
52.5°	1326.6	1270.7	1119.8	855.9	719.2	868.9	1117.4	1266.0	1294.5	1263.6	1170.9
55°	1239.8	1189.9	1035.4	764.3	658.5	776.2	1033.0	1185.1	1207.7	1172.1	1075.8
57.5°	1151.8	1106.7	948.6	682.3	602.7	695.4	954.5	1101.9	1117.4	1072.2	984.2
60°	1060.3	1022.3	860.6	609.8	548.0	620.5	858.2	1018.7	1028.2	979.5	895.1
62.5°	968.8	934.3	772.7	543.2	492.1	550.4	778.6	930.7	936.7	890.3	803.6
65°	874.9	842.8	687.1	473.1	438.6	485.0	693.0	839.2	845.2	792.9	714.4
67.5°	777.4	751.3	595.5	419.6	387.5	423.2	607.4	746.5	750.1	699.0	627.6
70°	679.9	657.3	514.7	361.4	337.6	362.6	523.0	644.3	651.4	596.7	539.7
72.5°	580.1	562.3	436.3	300.7	279.3	300.7	441.0	550.4	555.1	510.0	454.1
75°	479.0	466.0	356.6	241.3	224.7	240.1	359.0	456.5	456.5	413.7	369.7
77.5°	381.6	372.1	273.4	185.4	173.5	183.1	274.6	361.4	359.0	325.7	291.2
80°	285.3	278.2	196.1	134.3	126.0	130.8	196.1	267.5	267.5	243.7	202.1
82.5°	204.5	196.1	129.6	88.0	83.2	85.6	127.2	186.6	190.2	172.4	136.7
85°	135.5	116.5	70.1	48.7	45.2	46.4	66.6	108.2	118.9	99.9	71.3
87.5°	59.4	39.2	17.8	7.1	3.6	4.8	14.3	34.5	45.2	29.7	9.5
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°	2215.7	2215.7	2215.7	2215.7	2215.7	2215.7
2.5°	2222.9	2203.8	2211.0	2215.7	2211.0	2232.4
5°	2220.5	2212.2	2211.0	2216.9	2207.4	2228.8
7.5°	2216.9	2212.2	2211.0	2213.3	2201.5	2221.7
10°	2208.6	2201.5	2203.8	2207.4	2192.0	2211.0
12.5°	2193.1	2186.0	2187.2	2199.1	2177.7	2194.3
15°	2167.0	2158.7	2167.0	2180.1	2161.0	2175.3
17.5°	2132.5	2119.4	2133.7	2153.9	2139.7	2152.7
20°	2088.5	2068.3	2083.8	2120.6	2107.6	2124.2
22.5°	2035.0	2010.1	2025.5	2079.0	2075.5	2093.3
25°	1974.4	1944.7	1966.1	2031.5	2038.6	2055.3
27.5°	1906.7	1873.4	1901.9	1979.2	1995.8	2014.8
30°	1833.0	1797.3	1830.6	1920.9	1945.9	1966.1
32.5°	1756.9	1717.7	1755.7	1855.6	1891.2	1917.4
35°	1677.2	1636.8	1679.6	1787.8	1830.6	1856.7
37.5°	1591.7	1552.4	1598.8	1716.5	1767.6	1793.7
40°	1503.7	1459.7	1512.0	1632.1	1699.8	1730.7
42.5°	1413.4	1358.7	1422.9	1552.4	1626.1	1657.0
45°	1312.3	1236.2	1323.0	1468.0	1545.3	1579.8
47.5°	1211.3	1135.2	1223.2	1377.7	1460.9	1491.8
50°	1113.8	1048.4	1118.6	1279.0	1375.3	1414.5
52.5°	1024.7	971.2	1030.6	1182.8	1287.4	1326.6
55°	941.4	899.8	948.6	1087.7	1194.6	1239.8
57.5°	863.0	836.8	870.1	997.3	1109.1	1151.8
60°	789.3	771.5	795.2	908.2	1008.0	1060.3
62.5°	716.8	707.3	725.1	814.3	914.1	968.8
65°	646.6	644.3	653.8	732.2	815.4	874.9
67.5°	576.5	575.3	581.3	645.5	719.2	777.4
70°	506.4	513.5	510.0	551.6	622.9	679.9
72.5°	435.1	445.8	439.8	466.0	534.9	580.1
75°	355.4	369.7	357.8	387.5	430.3	479.0
77.5°	273.4	288.9	274.6	300.7	347.1	381.6
80°	196.1	210.4	198.5	218.7	259.1	285.3
82.5°	123.6	134.3	124.8	145.0	185.4	204.5
85°	54.7	60.6	63.0	78.5	114.1	135.5
87.5°	2.4	1.2	2.4	15.5	40.4	59.4
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)