

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: P520540

Luminaire Tested: **4WSLA-175-L850-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520540  
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-L850-UNV-U  
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

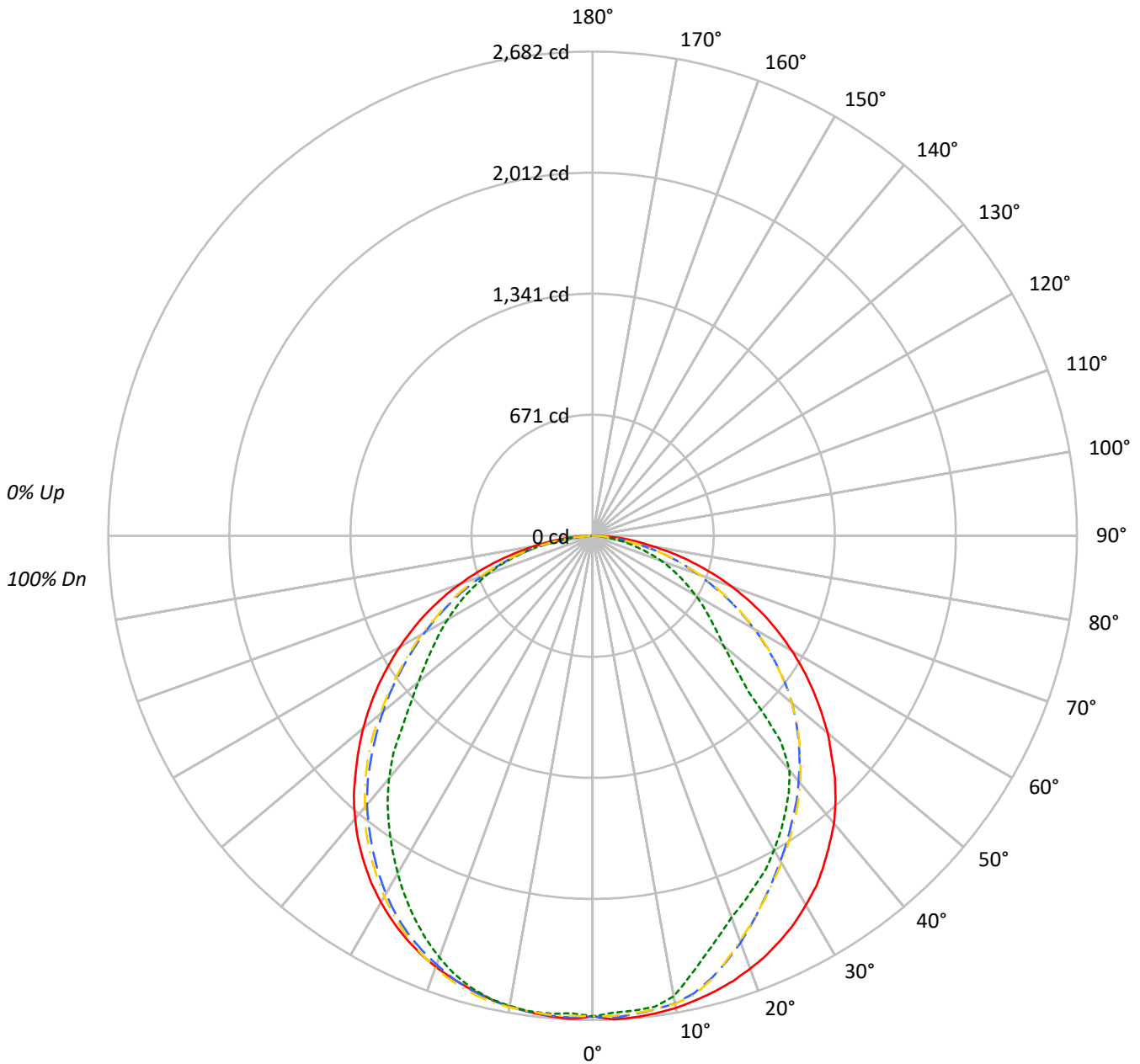
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7140.0 lumens  
Efficiency: N/A  
Efficacy: 120.0 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				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°	14325	14325	14325	14325
5°	14464	14263	14441	14356
10°	14514	14155	14475	14452
15°	14559	13406	14496	14448
20°	14614	12880	14557	14230
25°	14661	12668	14584	13872
30°	14677	12485	14571	13417
35°	14653	12243	14504	12918
40°	14606	11918	14375	12319
45°	14443	9259	14117	11303
50°	14227	7927	13880	10545
55°	13974	7422	13612	10142
60°	13710	7085	13295	9975
65°	13383	6710	12928	9855
70°	12851	6381	12313	9706
75°	11965	5612	11402	9235
80°	10621	4692	9958	7832
85°	10053	3353	8818	4495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.9	3.5
10°-20°	721.3	10.1
20°-30°	1077.8	15.1
30°-40°	1283.0	18.0
40°-50°	1282.4	18.0
50°-60°	1103.5	15.5
60°-70°	830.6	11.6
70°-80°	473.3	6.6
80°-90°	115.2	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°	2052.0	28.7
0°-40°	3335.0	46.7
0°-60°	5720.9	80.1
0°-90°	7140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2662	2662	2662	2662	2662	
5°	2677	2640	2673	2657	2677	255
15°	2613	2406	2602	2593	2613	738
25°	2469	2133	2456	2336	2469	1138
35°	2230	1863	2208	1966	2230	1396
45°	1898	1216	1855	1485	1898	1461
55°	1489	791	1451	1081	1489	1332
65°	1051	527	1015	774	1051	1038
75°	575	270	548	444	575	609
85°	163	54	143	73	163	177
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°	2661.6	2661.6	2661.6	2661.6	2661.6	2661.6	2661.6	2661.6	2661.6	2661.6	2661.6
2.5°	2681.5	2657.3	2671.6	2667.3	2644.4	2653.0	2661.6	2653.0	2678.7	2655.8	2671.6
5°	2677.3	2651.6	2660.1	2651.6	2640.1	2643.0	2655.8	2647.3	2673.0	2648.7	2668.7
7.5°	2668.7	2637.3	2645.8	2641.6	2631.6	2633.0	2645.8	2638.7	2661.6	2638.7	2661.6
10°	2655.8	2623.0	2630.1	2611.6	2590.2	2605.9	2631.6	2624.4	2648.7	2623.0	2648.7
12.5°	2635.9	2603.0	2595.9	2534.5	2495.9	2525.9	2604.4	2604.4	2627.3	2603.0	2630.1
15°	2613.0	2577.3	2538.8	2445.9	2406.0	2436.0	2544.5	2581.6	2601.6	2577.3	2604.4
17.5°	2585.9	2544.5	2470.2	2361.7	2324.6	2354.6	2465.9	2547.3	2573.0	2547.3	2571.6
20°	2551.6	2503.1	2397.4	2273.2	2248.9	2276.0	2387.4	2505.9	2541.6	2510.2	2527.3
22.5°	2514.5	2455.9	2316.0	2204.6	2193.2	2210.3	2311.7	2454.5	2501.6	2468.8	2480.2
25°	2468.8	2400.3	2234.6	2141.8	2133.2	2143.2	2237.5	2394.5	2455.9	2421.7	2426.0
27.5°	2420.2	2346.0	2157.5	2089.0	2080.4	2084.7	2163.2	2327.4	2403.1	2368.8	2361.7
30°	2361.7	2281.7	2080.4	2017.6	2009.0	2024.7	2091.8	2258.9	2344.6	2310.3	2288.9
32.5°	2303.2	2211.8	2004.7	1956.2	1939.1	1953.3	2017.6	2187.5	2280.3	2244.6	2208.9
35°	2230.3	2137.5	1926.2	1877.7	1863.4	1879.1	1943.3	2113.3	2207.5	2171.8	2123.2
37.5°	2154.7	2059.0	1854.8	1810.5	1784.8	1803.4	1867.7	2036.1	2131.8	2094.7	2034.7
40°	2079.0	1976.2	1774.8	1729.2	1696.3	1723.4	1789.1	1954.8	2046.1	2011.9	1943.3
42.5°	1990.5	1893.4	1696.3	1632.1	1539.2	1626.3	1704.9	1873.4	1957.6	1924.8	1842.0
45°	1897.6	1804.8	1613.5	1457.9	1216.5	1472.1	1619.2	1787.7	1854.8	1823.4	1733.4
47.5°	1792.0	1713.4	1529.3	1292.2	1058.1	1306.5	1532.1	1706.3	1757.7	1723.4	1623.5
50°	1699.2	1622.1	1440.7	1152.3	946.7	1168.0	1439.3	1614.9	1657.8	1626.3	1515.0
52.5°	1593.5	1526.4	1345.1	1028.1	863.9	1043.8	1342.2	1520.7	1555.0	1517.8	1406.5
55°	1489.3	1429.3	1243.7	918.1	791.0	932.4	1240.8	1423.6	1450.7	1407.9	1292.2
57.5°	1383.6	1329.4	1139.4	819.6	723.9	835.3	1146.6	1323.6	1342.2	1287.9	1182.3
60°	1273.7	1228.0	1033.8	732.5	658.2	745.3	1030.9	1223.7	1235.1	1176.6	1075.2
62.5°	1163.7	1122.3	928.1	652.5	591.1	661.1	935.3	1118.0	1125.2	1069.5	965.2
65°	1050.9	1012.4	825.3	568.3	526.9	582.6	832.5	1008.1	1015.2	952.4	858.2
67.5°	933.8	902.4	715.4	504.0	465.5	508.3	729.6	896.7	901.0	839.6	753.9
70°	816.7	789.6	618.3	434.1	405.5	435.5	628.3	773.9	782.5	716.8	648.3
72.5°	696.8	675.4	524.0	361.3	335.6	361.3	529.7	661.1	666.8	612.6	545.4
75°	575.4	559.7	428.4	289.9	269.9	288.4	431.2	548.3	548.3	496.9	444.1
77.5°	458.3	446.9	328.4	222.7	208.5	219.9	329.8	434.1	431.2	391.2	349.8
80°	342.7	334.1	235.6	161.3	151.4	157.1	235.6	321.3	321.3	292.7	242.7
82.5°	245.6	235.6	155.6	105.7	100.0	102.8	152.8	224.2	228.5	207.0	164.2
85°	162.8	139.9	84.2	58.5	54.3	55.7	80.0	129.9	142.8	119.9	85.7
87.5°	71.4	47.1	21.4	8.6	4.3	5.7	17.1	41.4	54.3	35.7	11.4
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°	2661.6	2661.6	2661.6	2661.6	2661.6	2661.6
2.5°	2670.1	2647.3	2655.8	2661.6	2655.8	2681.5
5°	2667.3	2657.3	2655.8	2663.0	2651.6	2677.3
7.5°	2663.0	2657.3	2655.8	2658.7	2644.4	2668.7
10°	2653.0	2644.4	2647.3	2651.6	2633.0	2655.8
12.5°	2634.4	2625.9	2627.3	2641.6	2615.9	2635.9
15°	2603.0	2593.0	2603.0	2618.7	2595.9	2613.0
17.5°	2561.6	2545.9	2563.0	2587.3	2570.2	2585.9
20°	2508.8	2484.5	2503.1	2547.3	2531.6	2551.6
22.5°	2444.5	2414.5	2433.1	2497.4	2493.1	2514.5
25°	2371.7	2336.0	2361.7	2440.2	2448.8	2468.8
27.5°	2290.3	2250.3	2284.6	2377.4	2397.4	2420.2
30°	2201.8	2158.9	2198.9	2307.4	2337.4	2361.7
32.5°	2110.4	2063.3	2109.0	2228.9	2271.7	2303.2
35°	2014.7	1966.2	2017.6	2147.5	2198.9	2230.3
37.5°	1911.9	1864.8	1920.5	2061.8	2123.2	2154.7
40°	1806.3	1753.4	1816.3	1960.5	2041.9	2079.0
42.5°	1697.7	1632.1	1709.2	1864.8	1953.3	1990.5
45°	1576.4	1485.0	1589.2	1763.4	1856.2	1897.6
47.5°	1455.0	1363.6	1469.3	1654.9	1754.9	1792.0
50°	1337.9	1259.4	1343.6	1536.4	1652.0	1699.2
52.5°	1230.8	1166.6	1238.0	1420.7	1546.4	1593.5
55°	1130.9	1080.9	1139.4	1306.5	1435.0	1489.3
57.5°	1036.6	1005.2	1045.2	1198.0	1332.2	1383.6
60°	948.1	926.7	955.2	1090.9	1210.8	1273.7
62.5°	861.0	849.6	871.0	978.1	1098.0	1163.7
65°	776.8	773.9	785.3	879.6	979.5	1050.9
67.5°	692.5	691.1	698.2	775.3	863.9	933.8
70°	608.3	616.8	612.6	662.5	748.2	816.7
72.5°	522.6	535.5	528.3	559.7	642.5	696.8
75°	426.9	444.1	429.8	465.5	516.9	575.4
77.5°	328.4	347.0	329.8	361.3	416.9	458.3
80°	235.6	252.7	238.5	262.7	311.3	342.7
82.5°	148.5	161.3	149.9	174.2	222.7	245.6
85°	65.7	72.8	75.7	94.2	137.1	162.8
87.5°	2.9	1.4	2.9	18.6	48.5	71.4
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)