

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: P520525

Luminaire Tested: **4WSLA-150-L940-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520525  
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-L940-UNV-U  
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

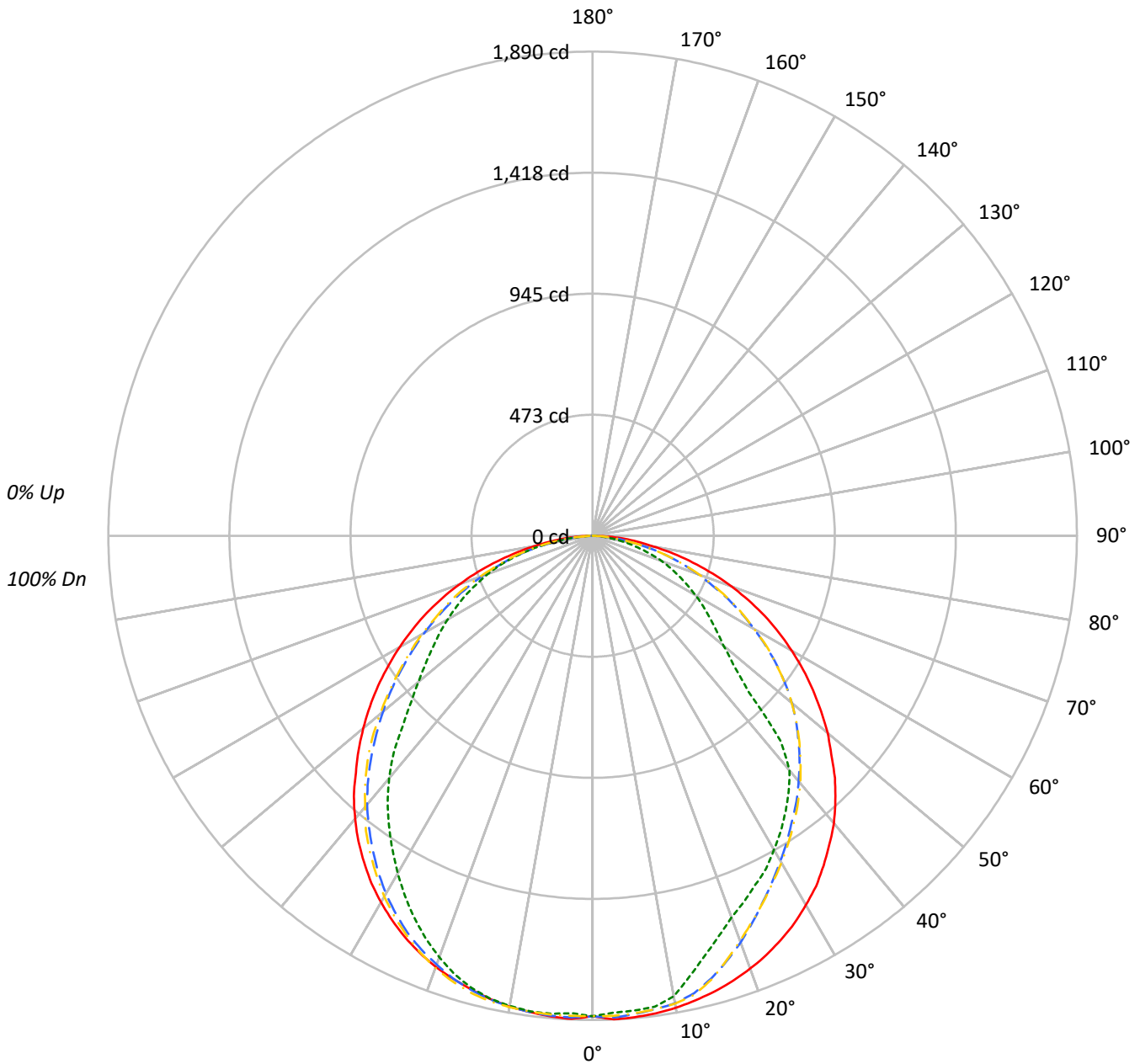
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5031.0 lumens  
Efficiency: N/A  
Efficacy: 105.5 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									
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°	10093	10093	10093	10093
5°	10192	10050	10175	10116
10°	10227	9974	10199	10183
15°	10259	9446	10214	10180
20°	10297	9076	10257	10026
25°	10330	8926	10276	9774
30°	10342	8797	10266	9454
35°	10325	8627	10219	9102
40°	10292	8398	10130	8680
45°	10177	6524	9947	7964
50°	10025	5586	9780	7430
55°	9847	5230	9591	7146
60°	9661	4992	9368	7029
65°	9430	4728	9109	6944
70°	9056	4496	8675	6839
75°	8432	3955	8033	6507
80°	7485	3304	7017	5520
85°	7083	2359	6212	3168



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.2	3.5
10°-20°	508.2	10.1
20°-30°	759.5	15.1
30°-40°	904.0	18.0
40°-50°	903.6	18.0
50°-60°	777.6	15.5
60°-70°	585.2	11.6
70°-80°	333.5	6.6
80°-90°	81.2	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°	1445.9	28.7
0°-40°	2349.9	46.7
0°-60°	4031.1	80.1
0°-90°	5031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5031.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1875	1875	1875	1875	1875	
5°	1886	1860	1883	1872	1886	180
15°	1841	1695	1833	1827	1841	520
25°	1740	1503	1730	1646	1740	802
35°	1572	1313	1555	1385	1572	983
45°	1337	857	1307	1046	1337	1030
55°	1049	557	1022	762	1049	938
65°	740	371	715	545	740	731
75°	406	190	386	313	406	429
85°	115	38	101	51	115	125
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°	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4
2.5°	1889.5	1872.4	1882.4	1879.4	1863.3	1869.4	1875.4	1869.4	1887.5	1871.4	1882.4
5°	1886.5	1868.3	1874.4	1868.3	1860.3	1862.3	1871.4	1865.3	1883.4	1866.3	1880.4
7.5°	1880.4	1858.3	1864.3	1861.3	1854.3	1855.3	1864.3	1859.3	1875.4	1859.3	1875.4
10°	1871.4	1848.2	1853.3	1840.2	1825.1	1836.2	1854.3	1849.2	1866.3	1848.2	1866.3
12.5°	1857.3	1834.1	1829.1	1785.8	1758.7	1779.8	1835.1	1835.1	1851.2	1834.1	1853.3
15°	1841.2	1816.0	1788.9	1723.5	1695.3	1716.4	1792.9	1819.0	1833.1	1816.0	1835.1
17.5°	1822.1	1792.9	1740.6	1664.1	1637.9	1659.1	1737.6	1794.9	1813.0	1794.9	1812.0
20°	1797.9	1763.7	1689.3	1601.7	1584.6	1603.7	1682.2	1765.7	1790.9	1768.7	1780.8
22.5°	1771.8	1730.5	1631.9	1553.4	1545.4	1557.5	1628.9	1729.5	1762.7	1739.6	1747.6
25°	1739.6	1691.3	1574.6	1509.2	1503.1	1510.2	1576.6	1687.2	1730.5	1706.4	1709.4
27.5°	1705.4	1653.0	1520.2	1471.9	1465.9	1468.9	1524.3	1640.0	1693.3	1669.1	1664.1
30°	1664.1	1607.8	1465.9	1421.6	1415.6	1426.7	1474.0	1591.7	1652.0	1627.9	1612.8
32.5°	1622.9	1558.5	1412.6	1378.4	1366.3	1376.4	1421.6	1541.4	1606.8	1581.6	1556.5
35°	1571.5	1506.1	1357.2	1323.0	1313.0	1324.0	1369.3	1489.0	1555.4	1530.3	1496.1
37.5°	1518.2	1450.8	1306.9	1275.7	1257.6	1270.7	1316.0	1434.7	1502.1	1476.0	1433.7
40°	1464.9	1392.5	1250.6	1218.4	1195.3	1214.4	1260.7	1377.4	1441.8	1417.6	1369.3
42.5°	1402.5	1334.1	1195.3	1150.0	1084.6	1146.0	1201.3	1320.0	1379.4	1356.2	1297.9
45°	1337.1	1271.7	1136.9	1027.2	857.2	1037.3	1140.9	1259.7	1306.9	1284.8	1221.4
47.5°	1262.7	1207.3	1077.5	910.5	745.5	920.6	1079.6	1202.3	1238.5	1214.4	1143.9
50°	1197.3	1142.9	1015.2	811.9	667.1	823.0	1014.2	1137.9	1168.1	1146.0	1067.5
52.5°	1122.8	1075.5	947.8	724.4	608.7	735.5	945.7	1071.5	1095.7	1069.5	991.0
55°	1049.4	1007.1	876.3	646.9	557.4	657.0	874.3	1003.1	1022.2	992.0	910.5
57.5°	974.9	936.7	802.9	577.5	510.1	588.6	807.9	932.7	945.7	907.5	833.1
60°	897.5	865.3	728.4	516.1	463.8	525.2	726.4	862.2	870.3	829.0	757.6
62.5°	820.0	790.8	654.0	459.8	416.5	465.8	659.0	787.8	792.8	753.6	680.1
65°	740.5	713.3	581.5	400.4	371.3	410.5	586.6	710.3	715.3	671.1	604.7
67.5°	658.0	635.9	504.1	355.2	328.0	358.2	514.1	631.8	634.9	591.6	531.2
70°	575.5	556.4	435.6	305.9	285.7	306.9	442.7	545.3	551.3	505.1	456.8
72.5°	491.0	475.9	369.2	254.5	236.4	254.5	373.3	465.8	469.9	431.6	384.3
75°	405.5	394.4	301.8	204.2	190.2	203.2	303.8	386.3	386.3	350.1	312.9
77.5°	323.0	314.9	231.4	157.0	146.9	154.9	232.4	305.9	303.8	275.7	246.5
80°	241.5	235.4	166.0	113.7	106.6	110.7	166.0	226.4	226.4	206.3	171.0
82.5°	173.1	166.0	109.7	74.5	70.4	72.4	107.7	158.0	161.0	145.9	115.7
85°	114.7	98.6	59.4	41.3	38.2	39.2	56.3	91.6	100.6	84.5	60.4
87.5°	50.3	33.2	15.1	6.0	3.0	4.0	12.1	29.2	38.2	25.2	8.0
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°	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4
2.5°	1881.4	1865.3	1871.4	1875.4	1871.4	1889.5
5°	1879.4	1872.4	1871.4	1876.4	1868.3	1886.5
7.5°	1876.4	1872.4	1871.4	1873.4	1863.3	1880.4
10°	1869.4	1863.3	1865.3	1868.3	1855.3	1871.4
12.5°	1856.3	1850.2	1851.2	1861.3	1843.2	1857.3
15°	1834.1	1827.1	1834.1	1845.2	1829.1	1841.2
17.5°	1805.0	1793.9	1806.0	1823.1	1811.0	1822.1
20°	1767.7	1750.6	1763.7	1794.9	1783.8	1797.9
22.5°	1722.5	1701.3	1714.4	1759.7	1756.7	1771.8
25°	1671.2	1646.0	1664.1	1719.4	1725.5	1739.6
27.5°	1613.8	1585.6	1609.8	1675.2	1689.3	1705.4
30°	1551.4	1521.2	1549.4	1625.9	1647.0	1664.1
32.5°	1487.0	1453.8	1486.0	1570.5	1600.7	1622.9
35°	1419.6	1385.4	1421.6	1513.2	1549.4	1571.5
37.5°	1347.2	1314.0	1353.2	1452.8	1496.1	1518.2
40°	1272.7	1235.5	1279.8	1381.4	1438.7	1464.9
42.5°	1196.3	1150.0	1204.3	1314.0	1376.4	1402.5
45°	1110.7	1046.4	1119.8	1242.5	1307.9	1337.1
47.5°	1025.2	960.8	1035.3	1166.1	1236.5	1262.7
50°	942.7	887.4	946.8	1082.6	1164.1	1197.3
52.5°	867.3	822.0	872.3	1001.1	1089.6	1122.8
55°	796.8	761.6	802.9	920.6	1011.1	1049.4
57.5°	730.4	708.3	736.5	844.1	938.7	974.9
60°	668.1	653.0	673.1	768.7	853.2	897.5
62.5°	606.7	598.6	613.7	689.2	773.7	820.0
65°	547.3	545.3	553.4	619.8	690.2	740.5
67.5°	488.0	487.0	492.0	546.3	608.7	658.0
70°	428.6	434.6	431.6	466.8	527.2	575.5
72.5°	368.2	377.3	372.3	394.4	452.7	491.0
75°	300.8	312.9	302.8	328.0	364.2	405.5
77.5°	231.4	244.5	232.4	254.5	293.8	323.0
80°	166.0	178.1	168.0	185.1	219.3	241.5
82.5°	104.6	113.7	105.6	122.7	157.0	173.1
85°	46.3	51.3	53.3	66.4	96.6	114.7
87.5°	2.0	1.0	2.0	13.1	34.2	50.3
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)