

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: P520519

Luminaire Tested: **4WSLA-150-L930-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520519  
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-L930-UNV-U  
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

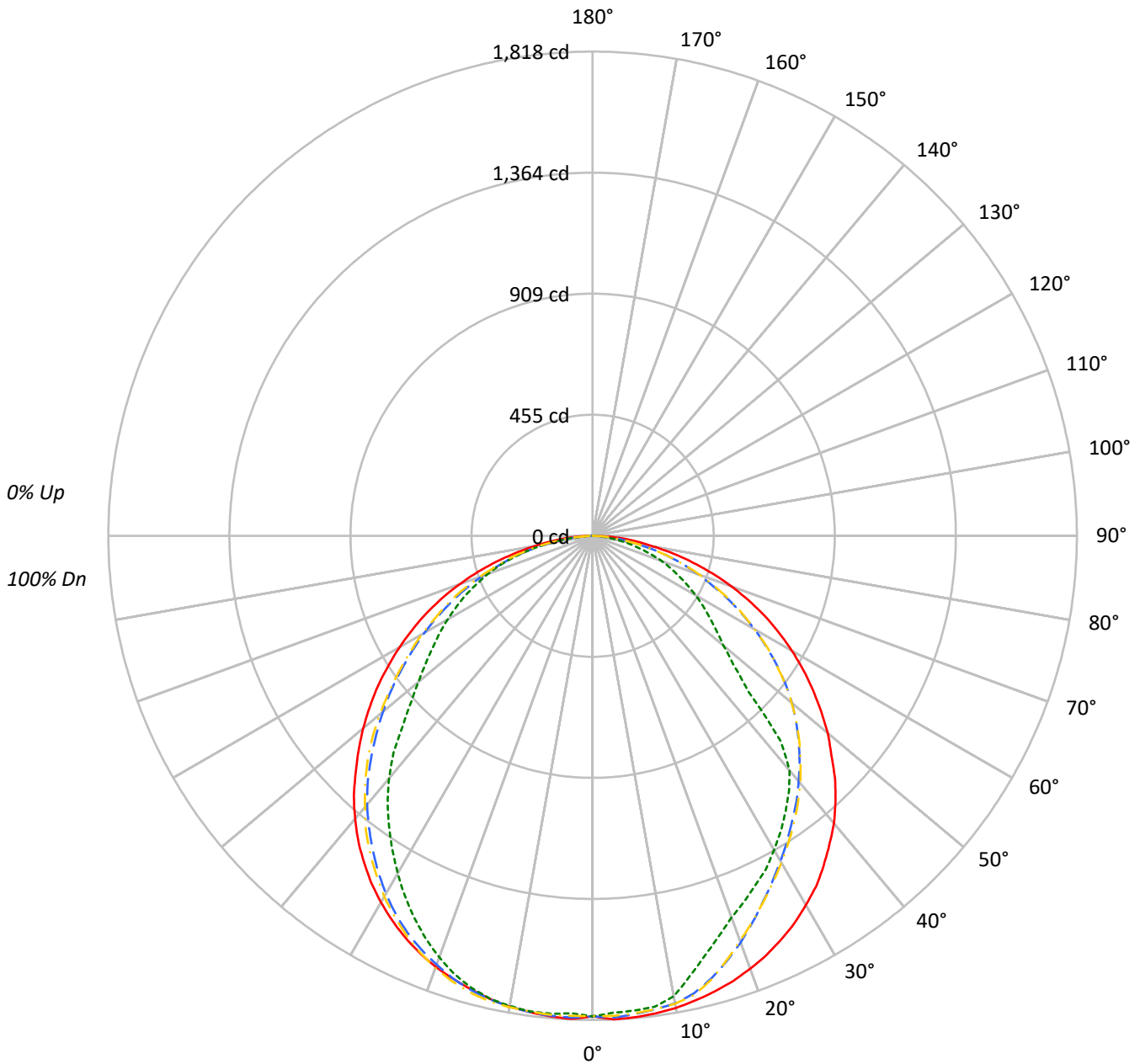
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4840.0 lumens  
Efficiency: N/A  
Efficacy: 101.5 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				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			100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84			84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70			70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60			60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44			44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39			39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25			25

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

	0°	90°	180°	270°
0°	9710	9710	9710	9710
5°	9804	9669	9789	9732
10°	9839	9595	9812	9797
15°	9869	9087	9826	9794
20°	9907	8731	9868	9646
25°	9938	8587	9886	9403
30°	9949	8464	9877	9095
35°	9933	8299	9832	8757
40°	9901	8079	9745	8351
45°	9791	6277	9570	7661
50°	9644	5373	9409	7148
55°	9472	5031	9227	6875
60°	9294	4803	9012	6762
65°	9072	4549	8764	6681
70°	8711	4326	8346	6579
75°	8112	3803	7729	6259
80°	7200	3180	6750	5309
85°	6811	2272	5978	3051



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	3.5
10°-20°	488.9	10.1
20°-30°	730.6	15.1
30°-40°	869.7	18.0
40°-50°	869.3	18.0
50°-60°	748.0	15.5
60°-70°	563.0	11.6
70°-80°	320.8	6.6
80°-90°	78.1	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°	1391.0	28.7
0°-40°	2260.7	46.7
0°-60°	3878.1	80.1
0°-90°	4840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4840.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1804	1804	1804	1804	1804	
5°	1815	1790	1812	1801	1815	173
15°	1771	1631	1764	1758	1771	500
25°	1674	1446	1665	1584	1674	772
35°	1512	1263	1496	1333	1512	946
45°	1286	825	1257	1007	1286	991
55°	1010	536	983	733	1010	903
65°	712	357	688	525	712	703
75°	390	183	372	301	390	413
85°	110	37	97	49	110	120
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°	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2
2.5°	1817.7	1801.3	1811.0	1808.1	1792.6	1798.4	1804.2	1798.4	1815.8	1800.3	1811.0
5°	1814.8	1797.4	1803.2	1797.4	1789.7	1791.6	1800.3	1794.5	1811.9	1795.5	1809.0
7.5°	1809.0	1787.7	1793.5	1790.6	1783.9	1784.8	1793.5	1788.7	1804.2	1788.7	1804.2
10°	1800.3	1778.1	1782.9	1770.3	1755.8	1766.4	1783.9	1779.0	1795.5	1778.1	1795.5
12.5°	1786.8	1764.5	1759.7	1718.0	1691.9	1712.2	1765.5	1765.5	1781.0	1764.5	1782.9
15°	1771.3	1747.1	1721.0	1658.0	1630.9	1651.3	1724.8	1750.0	1763.5	1747.1	1765.5
17.5°	1752.9	1724.8	1674.5	1600.9	1575.8	1596.1	1671.6	1726.8	1744.2	1726.8	1743.2
20°	1729.7	1696.8	1625.1	1540.9	1524.5	1542.9	1618.4	1698.7	1722.9	1701.6	1713.2
22.5°	1704.5	1664.8	1570.0	1494.5	1486.7	1498.3	1567.1	1663.8	1695.8	1673.5	1681.3
25°	1673.5	1627.1	1514.8	1451.9	1446.1	1452.8	1516.7	1623.2	1664.8	1641.6	1644.5
27.5°	1640.6	1590.3	1462.5	1416.1	1410.3	1413.2	1466.4	1577.7	1629.0	1605.8	1600.9
30°	1600.9	1546.7	1410.3	1367.7	1361.9	1372.5	1418.0	1531.2	1589.3	1566.1	1551.6
32.5°	1561.2	1499.3	1359.0	1326.0	1314.4	1324.1	1367.7	1482.8	1545.8	1521.6	1497.4
35°	1511.9	1449.0	1305.7	1272.8	1263.1	1273.8	1317.3	1432.5	1496.4	1472.2	1439.3
37.5°	1460.6	1395.7	1257.3	1227.3	1209.9	1222.5	1266.0	1380.2	1445.1	1419.9	1379.3
40°	1409.3	1339.6	1203.1	1172.1	1149.9	1168.3	1212.8	1325.1	1387.0	1363.8	1317.3
42.5°	1349.3	1283.5	1149.9	1106.3	1043.4	1102.5	1155.7	1269.9	1327.0	1304.7	1248.6
45°	1286.4	1223.4	1093.7	988.2	824.7	997.9	1097.6	1211.8	1257.3	1236.0	1175.0
47.5°	1214.7	1161.5	1036.6	876.0	717.2	885.6	1038.6	1156.7	1191.5	1168.3	1100.5
50°	1151.8	1099.6	976.6	781.1	641.7	791.8	975.7	1094.7	1123.7	1102.5	1027.0
52.5°	1080.2	1034.7	911.8	696.9	585.6	707.5	909.8	1030.8	1054.1	1028.9	953.4
55°	1009.5	968.9	843.1	622.4	536.2	632.0	841.1	965.0	983.4	954.4	876.0
57.5°	937.9	901.1	772.4	555.6	490.7	566.2	777.2	897.3	909.8	873.1	801.4
60°	863.4	832.4	700.8	496.5	446.2	505.3	698.8	829.5	837.2	797.6	728.8
62.5°	788.9	760.8	629.1	442.3	400.7	448.1	634.0	757.9	762.7	725.0	654.3
65°	712.4	686.3	559.5	385.2	357.2	394.9	564.3	683.3	688.2	645.6	581.7
67.5°	633.0	611.7	484.9	341.7	315.5	344.6	494.6	607.9	610.8	569.1	511.1
70°	553.6	535.3	419.1	294.2	274.9	295.2	425.9	524.6	530.4	485.9	439.4
72.5°	472.3	457.8	355.2	244.9	227.5	244.9	359.1	448.1	452.0	415.2	369.7
75°	390.1	379.4	290.4	196.5	182.9	195.5	292.3	371.7	371.7	336.8	301.0
77.5°	310.7	303.0	222.6	151.0	141.3	149.1	223.6	294.2	292.3	265.2	237.1
80°	232.3	226.5	159.7	109.4	102.6	106.5	159.7	217.8	217.8	198.4	164.5
82.5°	166.5	159.7	105.5	71.6	67.8	69.7	103.6	152.0	154.9	140.3	111.3
85°	110.3	94.9	57.1	39.7	36.8	37.7	54.2	88.1	96.8	81.3	58.1
87.5°	48.4	31.9	14.5	5.8	2.9	3.9	11.6	28.1	36.8	24.2	7.7
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°	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2
2.5°	1810.0	1794.5	1800.3	1804.2	1800.3	1817.7
5°	1808.1	1801.3	1800.3	1805.2	1797.4	1814.8
7.5°	1805.2	1801.3	1800.3	1802.3	1792.6	1809.0
10°	1798.4	1792.6	1794.5	1797.4	1784.8	1800.3
12.5°	1785.8	1780.0	1781.0	1790.6	1773.2	1786.8
15°	1764.5	1757.7	1764.5	1775.2	1759.7	1771.3
17.5°	1736.4	1725.8	1737.4	1753.9	1742.2	1752.9
20°	1700.6	1684.2	1696.8	1726.8	1716.1	1729.7
22.5°	1657.1	1636.7	1649.3	1692.9	1690.0	1704.5
25°	1607.7	1583.5	1600.9	1654.2	1660.0	1673.5
27.5°	1552.5	1525.4	1548.7	1611.6	1625.1	1640.6
30°	1492.5	1463.5	1490.6	1564.1	1584.5	1600.9
32.5°	1430.6	1398.6	1429.6	1510.9	1540.0	1561.2
35°	1365.7	1332.8	1367.7	1455.7	1490.6	1511.9
37.5°	1296.0	1264.1	1301.8	1397.7	1439.3	1460.6
40°	1224.4	1188.6	1231.2	1328.9	1384.1	1409.3
42.5°	1150.8	1106.3	1158.6	1264.1	1324.1	1349.3
45°	1068.6	1006.6	1077.3	1195.4	1258.3	1286.4
47.5°	986.3	924.4	996.0	1121.8	1189.6	1214.7
50°	906.9	853.7	910.8	1041.5	1119.9	1151.8
52.5°	834.3	790.8	839.2	963.1	1048.3	1080.2
55°	766.6	732.7	772.4	885.6	972.8	1009.5
57.5°	702.7	681.4	708.5	812.1	903.1	937.9
60°	642.7	628.2	647.5	739.5	820.8	863.4
62.5°	583.7	575.9	590.4	663.0	744.3	788.9
65°	526.5	524.6	532.4	596.2	664.0	712.4
67.5°	469.4	468.5	473.3	525.6	585.6	633.0
70°	412.3	418.1	415.2	449.1	507.2	553.6
72.5°	354.3	363.0	358.1	379.4	435.6	472.3
75°	289.4	301.0	291.3	315.5	350.4	390.1
77.5°	222.6	235.2	223.6	244.9	282.6	310.7
80°	159.7	171.3	161.6	178.1	211.0	232.3
82.5°	100.7	109.4	101.6	118.1	151.0	166.5
85°	44.5	49.4	51.3	63.9	92.9	110.3
87.5°	1.9	1.0	1.9	12.6	32.9	48.4
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)