

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: P520507

Luminaire Tested: **4WSLA-150-L830-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520507
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-L830-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

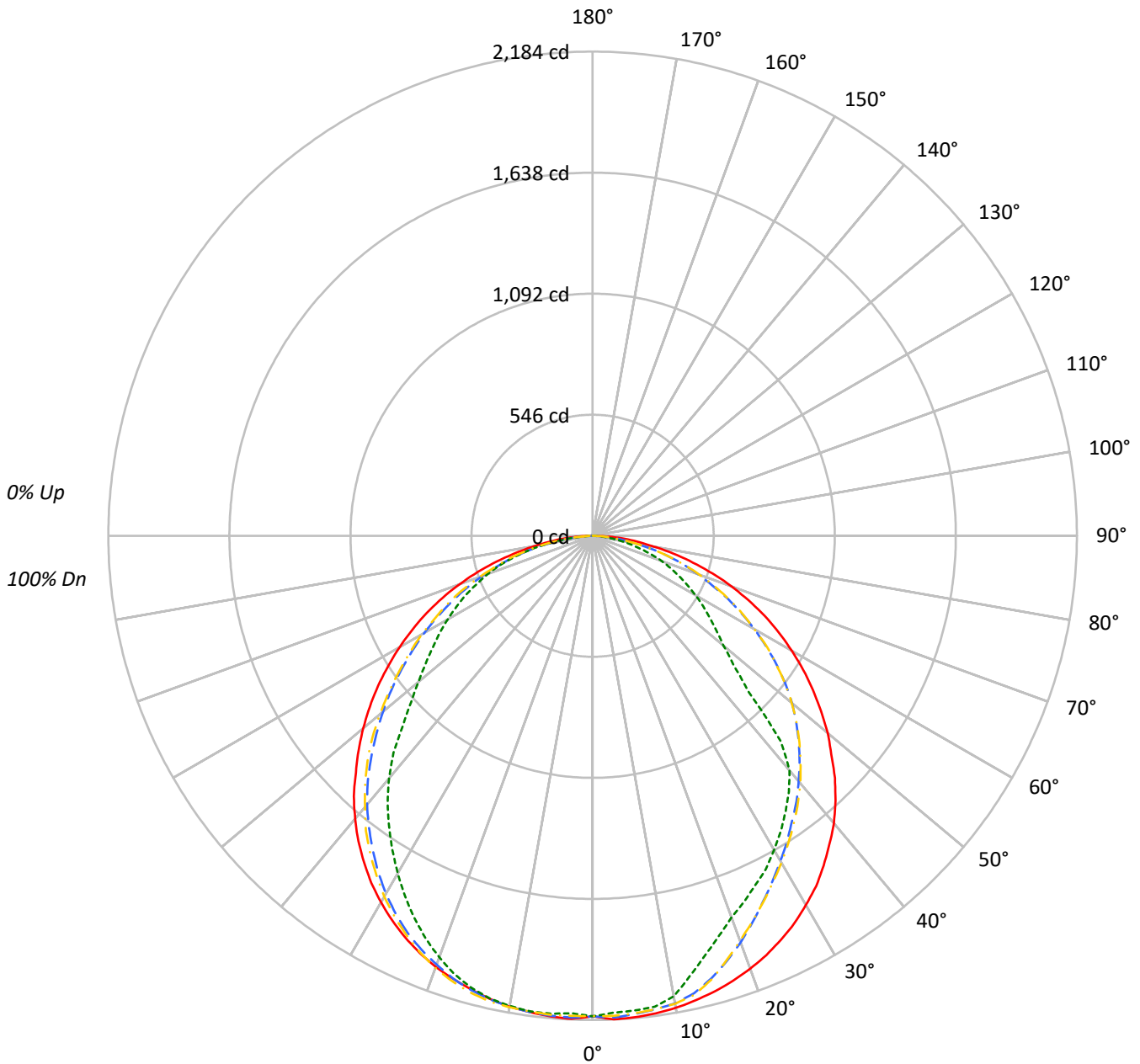
Lumens per Lamp: N/A
Luminaire Lumens: 5814.0 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	11664	11664	11664	11664
5°	11778	11614	11759	11690
10°	11819	11526	11787	11768
15°	11855	10916	11803	11765
20°	11900	10488	11853	11587
25°	11938	10315	11875	11296
30°	11951	10166	11864	10925
35°	11932	9969	11810	10519
40°	11894	9705	11705	10031
45°	11761	7540	11495	9204
50°	11585	6455	11302	8586
55°	11379	6044	11084	8259
60°	11163	5769	10825	8122
65°	10897	5463	10528	8025
70°	10466	5196	10027	7904
75°	9744	4569	9285	7519
80°	8647	3818	8108	6378
85°	8182	2729	7182	3662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	3.5
10°-20°	587.3	10.1
20°-30°	877.6	15.1
30°-40°	1044.7	18.0
40°-50°	1044.3	18.0
50°-60°	898.6	15.5
60°-70°	676.3	11.6
70°-80°	385.4	6.6
80°-90°	93.8	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°	1670.9	28.7
0°-40°	2715.6	46.7
0°-60°	4658.5	80.1
0°-90°	5814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5814.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2167	2167	2167	2167	2167	
5°	2180	2150	2177	2164	2180	207
15°	2128	1959	2118	2112	2128	601
25°	2010	1737	2000	1902	2010	927
35°	1816	1517	1798	1601	1816	1136
45°	1545	991	1510	1209	1545	1190
55°	1213	644	1181	880	1213	1084
65°	856	429	827	630	856	845
75°	469	220	446	362	469	496
85°	132	44	116	59	132	144
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°	2167.3	2167.3	2167.3	2167.3	2167.3	2167.3	2167.3	2167.3	2167.3	2167.3	2167.3
2.5°	2183.5	2163.8	2175.4	2171.9	2153.3	2160.3	2167.3	2160.3	2181.2	2162.6	2175.4
5°	2180.1	2159.1	2166.1	2159.1	2149.8	2152.2	2162.6	2155.6	2176.6	2156.8	2173.1
7.5°	2173.1	2147.5	2154.5	2151.0	2142.9	2144.0	2154.5	2148.7	2167.3	2148.7	2167.3
10°	2162.6	2135.9	2141.7	2126.6	2109.1	2121.9	2142.9	2137.0	2156.8	2135.9	2156.8
12.5°	2146.3	2119.6	2113.8	2063.8	2032.4	2056.8	2120.8	2120.8	2139.4	2119.6	2141.7
15°	2127.7	2098.7	2067.3	1991.7	1959.1	1983.6	2071.9	2102.2	2118.4	2098.7	2120.8
17.5°	2105.6	2071.9	2011.5	1923.1	1892.9	1917.3	2008.0	2074.3	2095.2	2074.3	2094.0
20°	2077.7	2038.2	1952.2	1851.0	1831.2	1853.3	1944.0	2040.5	2069.6	2044.0	2058.0
22.5°	2047.5	1999.8	1885.9	1795.2	1785.9	1799.9	1882.4	1998.7	2037.0	2010.3	2019.6
25°	2010.3	1954.5	1819.6	1744.0	1737.1	1745.2	1821.9	1949.8	1999.8	1971.9	1975.4
27.5°	1970.8	1910.3	1756.8	1701.0	1694.0	1697.5	1761.5	1895.2	1956.8	1928.9	1923.1
30°	1923.1	1858.0	1694.0	1642.9	1635.9	1648.7	1703.4	1839.4	1909.1	1881.2	1863.8
32.5°	1875.4	1801.0	1632.4	1592.9	1578.9	1590.6	1642.9	1781.3	1856.8	1827.8	1798.7
35°	1816.1	1740.6	1568.5	1528.9	1517.3	1530.1	1582.4	1720.8	1797.5	1768.5	1728.9
37.5°	1754.5	1676.6	1510.3	1474.3	1453.4	1468.5	1520.8	1658.0	1735.9	1705.7	1656.8
40°	1692.9	1609.2	1445.2	1408.0	1381.3	1403.4	1456.9	1591.7	1666.1	1638.2	1582.4
42.5°	1620.8	1541.7	1381.3	1329.0	1253.4	1324.3	1388.3	1525.5	1594.1	1567.3	1499.9
45°	1545.2	1469.6	1313.8	1187.1	990.6	1198.7	1318.5	1455.7	1510.3	1484.8	1411.5
47.5°	1459.2	1395.2	1245.2	1052.2	861.6	1063.9	1247.6	1389.4	1431.3	1403.4	1322.0
50°	1383.6	1320.8	1173.2	938.3	770.9	951.1	1172.0	1315.0	1349.9	1324.3	1233.6
52.5°	1297.6	1242.9	1095.3	837.1	703.4	849.9	1092.9	1238.3	1266.2	1235.9	1145.3
55°	1212.7	1163.9	1012.7	747.6	644.1	759.2	1010.4	1159.2	1181.3	1146.4	1052.2
57.5°	1126.7	1082.5	927.8	667.4	589.5	680.2	933.6	1077.8	1092.9	1048.8	962.7
60°	1037.1	999.9	841.8	596.5	536.0	606.9	839.5	996.4	1005.7	958.1	875.5
62.5°	947.6	913.9	755.8	531.4	481.4	538.3	761.6	910.4	916.2	870.9	786.0
65°	855.7	824.4	672.0	462.8	429.0	474.4	677.9	820.9	826.7	775.5	698.8
67.5°	760.4	734.8	582.5	410.4	379.0	413.9	594.1	730.2	733.7	683.7	613.9
70°	665.1	643.0	503.4	353.5	330.2	354.6	511.6	630.2	637.2	583.7	527.9
72.5°	567.4	550.0	426.7	294.2	273.2	294.2	431.4	538.3	543.0	498.8	444.2
75°	468.6	455.8	348.8	236.0	219.7	234.9	351.1	446.5	446.5	404.6	361.6
77.5°	373.2	363.9	267.4	181.4	169.8	179.1	268.6	353.5	351.1	318.6	284.9
80°	279.0	272.1	191.8	131.4	123.2	127.9	191.8	261.6	261.6	238.4	197.7
82.5°	200.0	191.8	126.7	86.0	81.4	83.7	124.4	182.5	186.0	168.6	133.7
85°	132.5	113.9	68.6	47.7	44.2	45.3	65.1	105.8	116.3	97.7	69.8
87.5°	58.1	38.4	17.4	7.0	3.5	4.7	14.0	33.7	44.2	29.1	9.3
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°	2167.3	2167.3	2167.3	2167.3	2167.3	2167.3
2.5°	2174.2	2155.6	2162.6	2167.3	2162.6	2183.5
5°	2171.9	2163.8	2162.6	2168.4	2159.1	2180.1
7.5°	2168.4	2163.8	2162.6	2164.9	2153.3	2173.1
10°	2160.3	2153.3	2155.6	2159.1	2144.0	2162.6
12.5°	2145.2	2138.2	2139.4	2151.0	2130.1	2146.3
15°	2119.6	2111.5	2119.6	2132.4	2113.8	2127.7
17.5°	2085.9	2073.1	2087.0	2106.8	2092.9	2105.6
20°	2042.9	2023.1	2038.2	2074.3	2061.5	2077.7
22.5°	1990.5	1966.1	1981.2	2033.6	2030.1	2047.5
25°	1931.2	1902.2	1923.1	1987.0	1994.0	2010.3
27.5°	1865.0	1832.4	1860.3	1935.9	1952.2	1970.8
30°	1792.9	1758.0	1790.6	1878.9	1903.3	1923.1
32.5°	1718.5	1680.1	1717.3	1815.0	1849.9	1875.4
35°	1640.6	1601.0	1642.9	1748.7	1790.6	1816.1
37.5°	1556.9	1518.5	1563.8	1678.9	1728.9	1754.5
40°	1470.8	1427.8	1479.0	1596.4	1662.7	1692.9
42.5°	1382.4	1329.0	1391.7	1518.5	1590.6	1620.8
45°	1283.6	1209.2	1294.1	1435.9	1511.5	1545.2
47.5°	1184.8	1110.4	1196.4	1347.6	1429.0	1459.2
50°	1089.4	1025.5	1094.1	1251.1	1345.2	1383.6
52.5°	1002.2	949.9	1008.1	1156.9	1259.2	1297.6
55°	920.9	880.2	927.8	1063.9	1168.5	1212.7
57.5°	844.1	818.5	851.1	975.5	1084.8	1126.7
60°	772.0	754.6	777.8	888.3	986.0	1037.1
62.5°	701.1	691.8	709.2	796.4	894.1	947.6
65°	632.5	630.2	639.5	716.2	797.6	855.7
67.5°	563.9	562.7	568.6	631.3	703.4	760.4
70°	495.3	502.3	498.8	539.5	609.3	665.1
72.5°	425.5	436.0	430.2	455.8	523.2	567.4
75°	347.6	361.6	350.0	379.0	420.9	468.6
77.5°	267.4	282.5	268.6	294.2	339.5	373.2
80°	191.8	205.8	194.2	213.9	253.5	279.0
82.5°	120.9	131.4	122.1	141.8	181.4	200.0
85°	53.5	59.3	61.6	76.7	111.6	132.5
87.5°	2.3	1.2	2.3	15.1	39.5	58.1
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)