

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: P520492

Luminaire Tested: **4WSLA-125-L850-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520492
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-125-L850-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

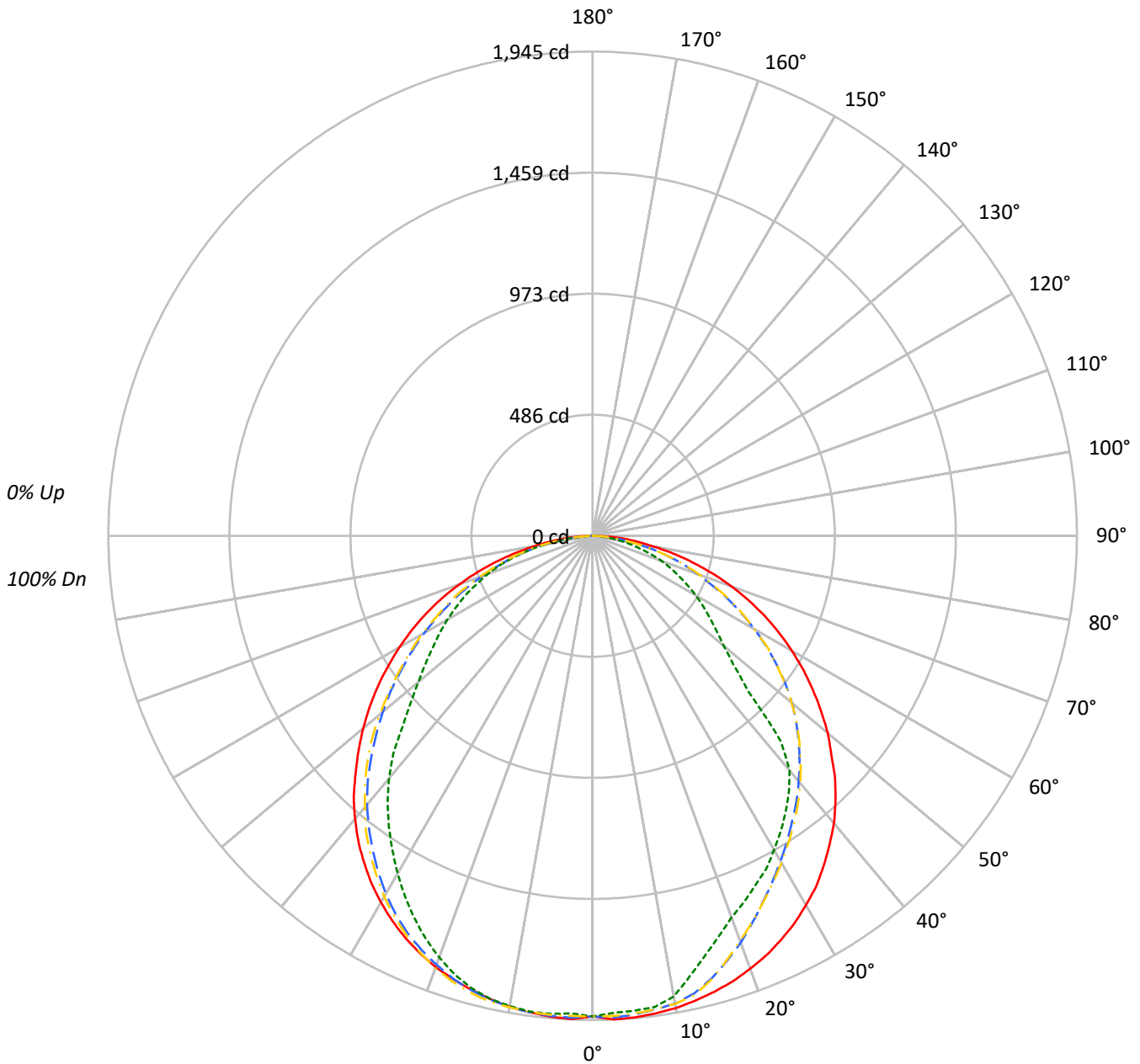
Lumens per Lamp: N/A
Luminaire Lumens: 5179.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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°	10390	10390	10390	10390
5°	10492	10346	10474	10413
10°	10528	10268	10499	10482
15°	10560	9724	10515	10479
20°	10600	9342	10559	10321
25°	10634	9188	10579	10062
30°	10646	9056	10568	9732
35°	10629	8880	10520	9370
40°	10595	8644	10427	8935
45°	10477	6716	10240	8198
50°	10320	5750	10068	7649
55°	10136	5384	9874	7356
60°	9945	5140	9643	7236
65°	9708	4867	9378	7149
70°	9322	4628	8932	7040
75°	8680	4069	8270	6698
80°	7705	3403	7221	5681
85°	7293	2433	6397	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	3.5
10°-20°	523.2	10.1
20°-30°	781.8	15.1
30°-40°	930.6	18.0
40°-50°	930.2	18.0
50°-60°	800.4	15.5
60°-70°	602.4	11.6
70°-80°	343.3	6.6
80°-90°	83.6	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°	1488.4	28.7
0°-40°	2419.0	46.7
0°-60°	4149.7	80.1
0°-90°	5179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5179.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1931	1931	1931	1931	1931	
5°	1942	1915	1939	1928	1942	185
15°	1895	1745	1887	1881	1895	535
25°	1791	1547	1781	1694	1791	826
35°	1618	1352	1601	1426	1618	1012
45°	1376	882	1345	1077	1376	1060
55°	1080	574	1052	784	1080	966
65°	762	382	736	561	762	753
75°	417	196	398	322	417	442
85°	118	39	104	53	118	128
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°	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6
2.5°	1945.1	1927.5	1937.8	1934.7	1918.1	1924.3	1930.6	1924.3	1943.0	1926.4	1937.8
5°	1942.0	1923.3	1929.5	1923.3	1915.0	1917.1	1926.4	1920.2	1938.8	1921.2	1935.7
7.5°	1935.7	1913.0	1919.2	1916.1	1908.8	1909.8	1919.2	1914.0	1930.6	1914.0	1930.6
10°	1926.4	1902.6	1907.8	1894.3	1878.8	1890.2	1908.8	1903.6	1921.2	1902.6	1921.2
12.5°	1911.9	1888.1	1882.9	1838.4	1810.4	1832.2	1889.1	1889.1	1905.7	1888.1	1907.8
15°	1895.3	1869.5	1841.5	1774.2	1745.2	1766.9	1845.6	1872.6	1887.1	1869.5	1889.1
17.5°	1875.7	1845.6	1791.8	1713.1	1686.1	1707.9	1788.7	1847.7	1866.3	1847.7	1865.3
20°	1850.8	1815.6	1739.0	1648.8	1631.2	1650.9	1731.7	1817.7	1843.6	1820.8	1833.2
22.5°	1823.9	1781.4	1679.9	1599.1	1590.8	1603.3	1676.8	1780.4	1814.6	1790.7	1799.0
25°	1790.7	1741.0	1620.9	1553.6	1547.3	1554.6	1623.0	1736.9	1781.4	1756.6	1759.7
27.5°	1755.5	1701.7	1565.0	1515.2	1509.0	1512.1	1569.1	1688.2	1743.1	1718.2	1713.1
30°	1713.1	1655.1	1509.0	1463.5	1457.2	1468.6	1517.3	1638.5	1700.6	1675.8	1660.2
32.5°	1670.6	1604.3	1454.1	1418.9	1406.5	1416.8	1463.5	1586.7	1654.0	1628.1	1602.2
35°	1617.8	1550.5	1397.2	1362.0	1351.6	1363.0	1409.6	1532.8	1601.2	1575.3	1540.1
37.5°	1562.9	1493.5	1345.4	1313.3	1294.6	1308.1	1354.7	1476.9	1546.3	1519.4	1475.9
40°	1508.0	1433.4	1287.4	1254.2	1230.4	1250.1	1297.7	1417.9	1484.2	1459.3	1409.6
42.5°	1443.8	1373.3	1230.4	1183.8	1116.5	1179.7	1236.6	1358.8	1420.0	1396.1	1336.1
45°	1376.5	1309.1	1170.4	1057.5	882.4	1067.8	1174.5	1296.7	1345.4	1322.6	1257.3
47.5°	1299.8	1242.8	1109.2	937.3	767.5	947.7	1111.3	1237.7	1275.0	1250.1	1177.6
50°	1232.5	1176.6	1045.0	835.8	686.7	847.2	1044.0	1171.4	1202.5	1179.7	1098.9
52.5°	1155.9	1107.2	975.6	745.7	626.6	757.1	973.6	1103.0	1127.9	1101.0	1020.2
55°	1080.2	1036.7	902.1	666.0	573.8	676.3	900.0	1032.6	1052.3	1021.2	937.3
57.5°	1003.6	964.2	826.5	594.5	525.1	605.9	831.7	960.1	973.6	934.2	857.6
60°	923.9	890.7	749.9	531.3	477.5	540.6	747.8	887.6	895.9	853.4	779.9
62.5°	844.1	814.1	673.2	473.3	428.8	479.5	678.4	811.0	816.1	775.7	700.1
65°	762.3	734.3	598.6	412.2	382.2	422.6	603.8	731.2	736.4	690.8	622.5
67.5°	677.4	654.6	518.9	365.6	337.6	368.7	529.2	650.4	653.5	609.0	546.9
70°	592.4	572.7	448.5	314.9	294.1	315.9	455.7	561.4	567.6	519.9	470.2
72.5°	505.4	489.9	380.1	262.0	243.4	262.0	384.2	479.5	483.7	444.3	395.6
75°	417.4	406.0	310.7	210.2	195.7	209.2	312.8	397.7	397.7	360.4	322.1
77.5°	332.5	324.2	238.2	161.6	151.2	159.5	239.2	314.9	312.8	283.8	253.7
80°	248.6	242.4	170.9	117.0	109.8	113.9	170.9	233.0	233.0	212.3	176.1
82.5°	178.1	170.9	112.9	76.6	72.5	74.6	110.8	162.6	165.7	150.2	119.1
85°	118.1	101.5	61.1	42.5	39.4	40.4	58.0	94.2	103.6	87.0	62.1
87.5°	51.8	34.2	15.5	6.2	3.1	4.1	12.4	30.0	39.4	25.9	8.3
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°	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6
2.5°	1936.8	1920.2	1926.4	1930.6	1926.4	1945.1
5°	1934.7	1927.5	1926.4	1931.6	1923.3	1942.0
7.5°	1931.6	1927.5	1926.4	1928.5	1918.1	1935.7
10°	1924.3	1918.1	1920.2	1923.3	1909.8	1926.4
12.5°	1910.9	1904.7	1905.7	1916.1	1897.4	1911.9
15°	1888.1	1880.8	1888.1	1899.5	1882.9	1895.3
17.5°	1858.1	1846.7	1859.1	1876.7	1864.3	1875.7
20°	1819.7	1802.1	1815.6	1847.7	1836.3	1850.8
22.5°	1773.1	1751.4	1764.8	1811.5	1808.3	1823.9
25°	1720.3	1694.4	1713.1	1770.0	1776.2	1790.7
27.5°	1661.3	1632.3	1657.1	1724.5	1739.0	1755.5
30°	1597.1	1566.0	1595.0	1673.7	1695.5	1713.1
32.5°	1530.8	1496.6	1529.7	1616.7	1647.8	1670.6
35°	1461.4	1426.2	1463.5	1557.7	1595.0	1617.8
37.5°	1386.8	1352.6	1393.0	1495.6	1540.1	1562.9
40°	1310.2	1271.8	1317.4	1422.0	1481.1	1508.0
42.5°	1231.5	1183.8	1239.7	1352.6	1416.8	1443.8
45°	1143.4	1077.1	1152.7	1279.1	1346.4	1376.5
47.5°	1055.4	989.1	1065.7	1200.4	1272.9	1299.8
50°	970.5	913.5	974.6	1114.4	1198.3	1232.5
52.5°	892.8	846.2	898.0	1030.5	1121.7	1155.9
55°	820.3	784.0	826.5	947.7	1040.9	1080.2
57.5°	751.9	729.1	758.1	869.0	966.3	1003.6
60°	687.7	672.2	692.9	791.3	878.3	923.9
62.5°	624.5	616.2	631.8	709.5	796.5	844.1
65°	563.4	561.4	569.6	638.0	710.5	762.3
67.5°	502.3	501.3	506.5	562.4	626.6	677.4
70°	441.2	447.4	444.3	480.6	542.7	592.4
72.5°	379.1	388.4	383.2	406.0	466.1	505.4
75°	309.7	322.1	311.7	337.6	374.9	417.4
77.5°	238.2	251.7	239.2	262.0	302.4	332.5
80°	170.9	183.3	173.0	190.6	225.8	248.6
82.5°	107.7	117.0	108.7	126.4	161.6	178.1
85°	47.6	52.8	54.9	68.4	99.4	118.1
87.5°	2.1	1.0	2.1	13.5	35.2	51.8
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)