

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: P520789

Luminaire Tested: **8WSLA-75-L940-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520789
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: 8WSLA-75-L940-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

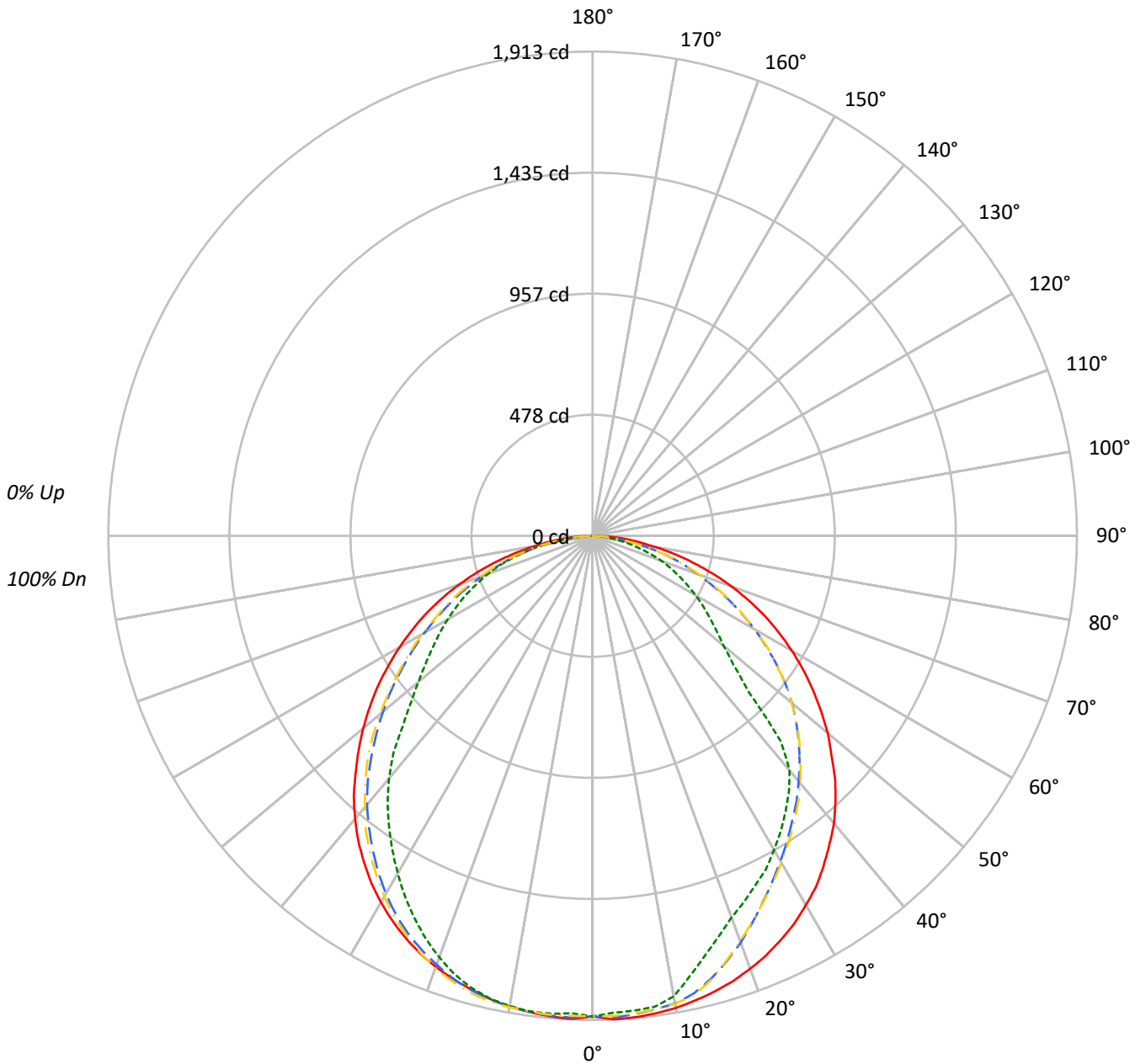
Lumens per Lamp: N/A
Luminaire Lumens: 5093.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 46.6
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°	5109	5109	5109	5109
5°	5159	5087	5150	5120
10°	5176	5049	5162	5154
15°	5193	4781	5170	5153
20°	5212	4594	5192	5075
25°	5229	4518	5201	4948
30°	5235	4453	5197	4785
35°	5226	4367	5173	4607
40°	5210	4251	5127	4393
45°	5151	3303	5035	4031
50°	5074	2827	4950	3761
55°	4984	2647	4855	3617
60°	4890	2527	4742	3557
65°	4773	2393	4611	3515
70°	4584	2276	4391	3462
75°	4268	2001	4066	3294
80°	3787	1674	3552	2794
85°	3585	1195	3146	1602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	3.5
10°-20°	514.5	10.1
20°-30°	768.8	15.1
30°-40°	915.2	18.0
40°-50°	914.8	18.0
50°-60°	787.1	15.5
60°-70°	592.4	11.6
70°-80°	337.6	6.6
80°-90°	82.2	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°	1463.7	28.7
0°-40°	2378.9	46.7
0°-60°	4080.8	80.1
0°-90°	5093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5093.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1898	1898	1898	1898	1898	
5°	1910	1883	1907	1895	1910	182
15°	1864	1716	1856	1850	1864	527
25°	1761	1522	1752	1666	1761	812
35°	1591	1329	1575	1402	1591	995
45°	1354	868	1323	1059	1354	1042
55°	1062	564	1035	771	1062	950
65°	750	376	724	552	750	740
75°	410	192	391	317	410	435
85°	116	39	102	52	116	126
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°	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5
2.5°	1912.8	1895.4	1905.6	1902.6	1886.3	1892.4	1898.5	1892.4	1910.7	1894.4	1905.6
5°	1909.7	1891.4	1897.5	1891.4	1883.2	1885.3	1894.4	1888.3	1906.7	1889.3	1903.6
7.5°	1903.6	1881.2	1887.3	1884.2	1877.1	1878.1	1887.3	1882.2	1898.5	1882.2	1898.5
10°	1894.4	1871.0	1876.1	1862.9	1847.6	1858.8	1877.1	1872.0	1889.3	1871.0	1889.3
12.5°	1880.2	1856.7	1851.7	1807.9	1780.4	1801.7	1857.8	1857.8	1874.1	1856.7	1876.1
15°	1863.9	1838.4	1810.9	1744.7	1716.2	1737.6	1815.0	1841.5	1855.7	1838.4	1857.8
17.5°	1844.5	1815.0	1762.0	1684.6	1658.1	1679.5	1759.0	1817.0	1835.4	1817.0	1834.3
20°	1820.1	1785.4	1710.1	1621.5	1604.2	1623.5	1702.9	1787.5	1812.9	1790.5	1802.8
22.5°	1793.6	1751.8	1652.0	1572.6	1564.4	1576.7	1649.0	1750.8	1784.4	1761.0	1769.2
25°	1761.0	1712.1	1594.0	1527.8	1521.7	1528.8	1596.0	1708.0	1751.8	1727.4	1730.4
27.5°	1726.4	1673.4	1539.0	1490.1	1484.0	1487.0	1543.0	1660.2	1714.2	1689.7	1684.6
30°	1684.6	1627.6	1484.0	1439.2	1433.0	1444.2	1492.1	1611.3	1672.4	1647.9	1632.7
32.5°	1642.9	1577.7	1430.0	1395.4	1383.1	1393.3	1439.2	1560.4	1626.6	1601.1	1575.6
35°	1590.9	1524.7	1374.0	1339.3	1329.2	1340.4	1386.2	1507.4	1574.6	1549.2	1514.5
37.5°	1536.9	1468.7	1323.0	1291.5	1273.1	1286.4	1332.2	1452.4	1520.6	1494.2	1451.4
40°	1483.0	1409.6	1266.0	1233.4	1210.0	1229.3	1276.2	1394.3	1459.5	1435.1	1386.2
42.5°	1419.8	1350.5	1210.0	1164.2	1098.0	1160.1	1216.1	1336.3	1396.4	1373.0	1313.9
45°	1353.6	1287.4	1150.9	1039.9	867.8	1050.1	1155.0	1275.2	1323.0	1300.6	1236.5
47.5°	1278.2	1222.2	1090.8	921.8	754.7	931.9	1092.9	1217.1	1253.8	1229.3	1158.0
50°	1212.0	1157.0	1027.7	821.9	675.3	833.1	1026.7	1151.9	1182.5	1160.1	1080.6
52.5°	1136.7	1088.8	959.4	733.3	616.2	744.5	957.4	1084.7	1109.2	1082.7	1003.2
55°	1062.3	1019.5	887.1	654.9	564.3	665.1	885.1	1015.5	1034.8	1004.3	921.8
57.5°	986.9	948.2	812.8	584.6	516.4	595.8	817.9	944.2	957.4	918.7	843.3
60°	908.5	875.9	737.4	522.5	469.5	531.7	735.4	872.9	881.0	839.3	766.9
62.5°	830.1	800.5	662.0	465.5	421.7	471.6	667.1	797.5	802.6	762.9	688.5
65°	749.6	722.1	588.7	405.4	375.8	415.6	593.8	719.1	724.2	679.3	612.1
67.5°	666.1	643.7	510.3	359.5	332.0	362.6	520.5	639.6	642.7	598.9	537.8
70°	582.6	563.2	441.0	309.6	289.3	310.6	448.1	552.0	558.1	511.3	462.4
72.5°	497.0	481.8	373.8	257.7	239.3	257.7	377.9	471.6	475.6	436.9	389.1
75°	410.5	399.3	305.6	206.8	192.5	205.7	307.6	391.1	391.1	354.4	316.8
77.5°	326.9	318.8	234.3	158.9	148.7	156.9	235.3	309.6	307.6	279.1	249.5
80°	244.4	238.3	168.1	115.1	108.0	112.0	168.1	229.2	229.2	208.8	173.1
82.5°	175.2	168.1	111.0	75.4	71.3	73.3	109.0	159.9	163.0	147.7	117.1
85°	116.1	99.8	60.1	41.8	38.7	39.7	57.0	92.7	101.9	85.6	61.1
87.5°	50.9	33.6	15.3	6.1	3.1	4.1	12.2	29.5	38.7	25.5	8.1
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°	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5
2.5°	1904.6	1888.3	1894.4	1898.5	1894.4	1912.8
5°	1902.6	1895.4	1894.4	1899.5	1891.4	1909.7
7.5°	1899.5	1895.4	1894.4	1896.5	1886.3	1903.6
10°	1892.4	1886.3	1888.3	1891.4	1878.1	1894.4
12.5°	1879.2	1873.0	1874.1	1884.2	1865.9	1880.2
15°	1856.7	1849.6	1856.7	1867.9	1851.7	1863.9
17.5°	1827.2	1816.0	1828.2	1845.5	1833.3	1844.5
20°	1789.5	1772.2	1785.4	1817.0	1805.8	1820.1
22.5°	1743.7	1722.3	1735.5	1781.4	1778.3	1793.6
25°	1691.7	1666.3	1684.6	1740.6	1746.7	1761.0
27.5°	1633.7	1605.2	1629.6	1695.8	1710.1	1726.4
30°	1570.5	1540.0	1568.5	1645.9	1667.3	1684.6
32.5°	1505.4	1471.7	1504.3	1589.9	1620.4	1642.9
35°	1437.1	1402.5	1439.2	1531.8	1568.5	1590.9
37.5°	1363.8	1330.2	1369.9	1470.7	1514.5	1536.9
40°	1288.4	1250.7	1295.5	1398.4	1456.5	1483.0
42.5°	1211.0	1164.2	1219.2	1330.2	1393.3	1419.8
45°	1124.4	1059.3	1133.6	1257.9	1324.1	1353.6
47.5°	1037.9	972.7	1048.0	1180.5	1251.7	1278.2
50°	954.3	898.3	958.4	1095.9	1178.4	1212.0
52.5°	878.0	832.1	883.0	1013.4	1103.0	1136.7
55°	806.7	771.0	812.8	931.9	1023.6	1062.3
57.5°	739.4	717.0	745.5	854.5	950.3	986.9
60°	676.3	661.0	681.4	778.1	863.7	908.5
62.5°	614.2	606.0	621.3	697.7	783.2	830.1
65°	554.1	552.0	560.2	627.4	698.7	749.6
67.5°	494.0	493.0	498.1	553.1	616.2	666.1
70°	433.9	440.0	436.9	472.6	533.7	582.6
72.5°	372.8	381.9	376.8	399.3	458.3	497.0
75°	304.5	316.8	306.6	332.0	368.7	410.5
77.5°	234.3	247.5	235.3	257.7	297.4	326.9
80°	168.1	180.3	170.1	187.4	222.0	244.4
82.5°	105.9	115.1	106.9	124.3	158.9	175.2
85°	46.9	51.9	54.0	67.2	97.8	116.1
87.5°	2.0	1.0	2.0	13.2	34.6	50.9
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)