

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: P520778

Luminaire Tested: **8WSLA-75-L840-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-75-L840-UPL15-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

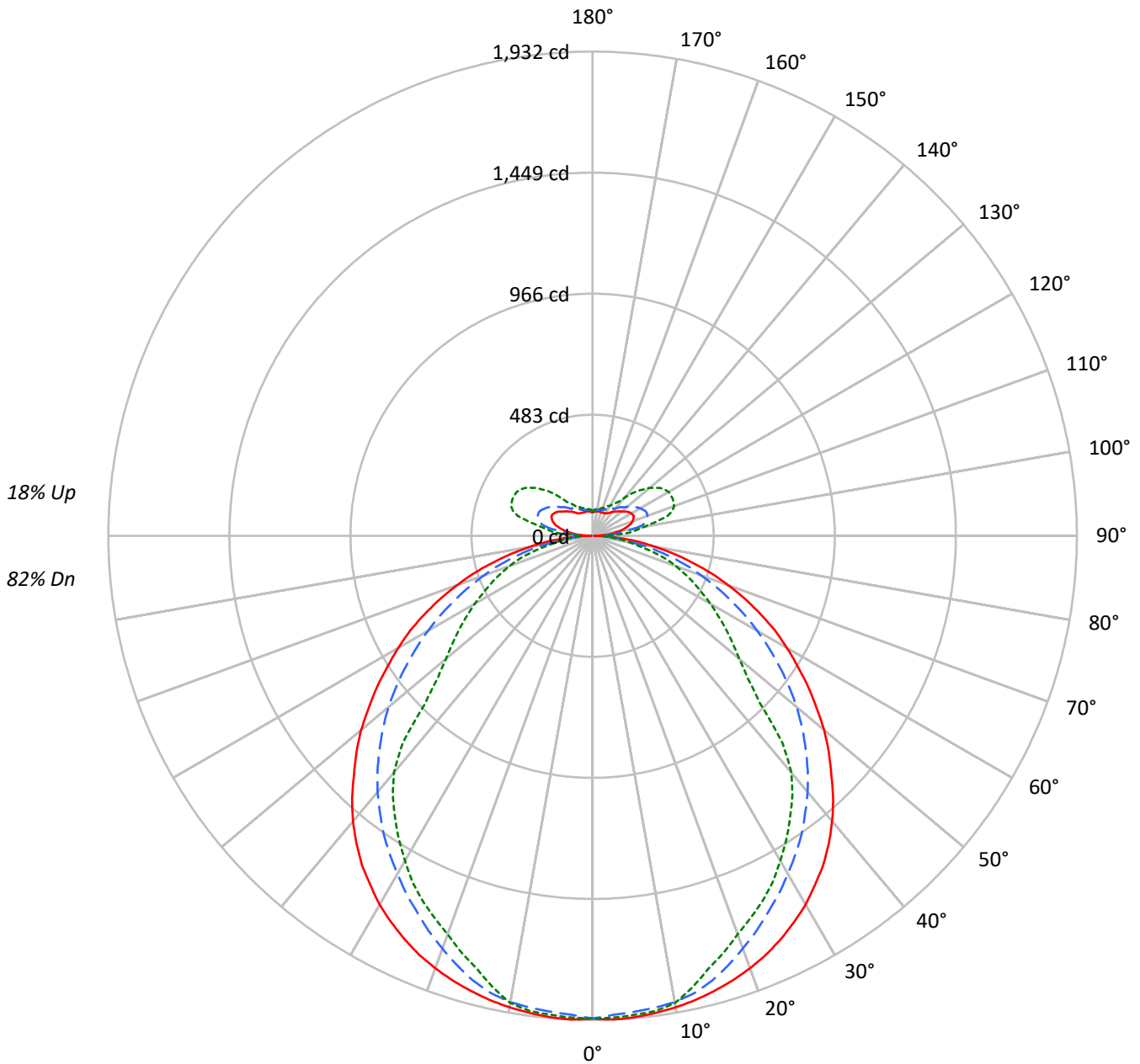
Lumens per Lamp: N/A
Luminaire Lumens: 6239.0 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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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CATALOG NUMBER: 8WSLA-75-L840-UPL15-UNV-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 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 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 110 | 101 | 101 | 101 | 93 | 93 | 93 | 86 | 86 | 86 | 86 | 86 | 86 | 82 |
| 1 | 105 | 100 | 96 | 92 | 100 | 96 | 93 | 89 | 89 | 86 | 83 | 82 | 80 | 78 | 76 | 74 | 72 | 72 | 72 | 72 | 69 |
| 2 | 96 | 88 | 81 | 76 | 91 | 84 | 78 | 73 | 78 | 73 | 69 | 72 | 68 | 65 | 67 | 64 | 61 | 61 | 61 | 61 | 58 |
| 3 | 87 | 77 | 69 | 63 | 83 | 74 | 67 | 61 | 69 | 63 | 58 | 64 | 59 | 55 | 59 | 55 | 52 | 52 | 52 | 52 | 49 |
| 4 | 80 | 68 | 60 | 53 | 76 | 66 | 58 | 52 | 61 | 55 | 50 | 57 | 51 | 47 | 53 | 48 | 45 | 45 | 45 | 45 | 42 |
| 5 | 73 | 61 | 52 | 46 | 70 | 59 | 51 | 45 | 55 | 48 | 43 | 51 | 45 | 41 | 48 | 43 | 39 | 39 | 39 | 39 | 36 |
| 6 | 68 | 55 | 46 | 40 | 65 | 53 | 45 | 39 | 50 | 43 | 38 | 46 | 40 | 36 | 43 | 38 | 34 | 34 | 34 | 34 | 32 |
| 7 | 63 | 50 | 41 | 35 | 60 | 48 | 40 | 35 | 45 | 38 | 33 | 42 | 36 | 32 | 39 | 34 | 30 | 30 | 30 | 30 | 28 |
| 8 | 58 | 45 | 37 | 32 | 56 | 44 | 36 | 31 | 41 | 35 | 30 | 39 | 33 | 29 | 36 | 31 | 27 | 27 | 27 | 27 | 25 |
| 9 | 55 | 42 | 34 | 28 | 52 | 40 | 33 | 28 | 38 | 31 | 27 | 36 | 30 | 26 | 33 | 28 | 25 | 25 | 25 | 25 | 23 |
| 10 | 51 | 38 | 31 | 26 | 49 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 27 | 23 | 31 | 26 | 23 | 23 | 23 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5184 | 5184 | 5184 |
| 5° | 5209 | 5151 | 5183 |
| 10° | 5221 | 5162 | 5173 |
| 15° | 5236 | 5122 | 4980 |
| 20° | 5259 | 5019 | 4845 |
| 25° | 5273 | 4919 | 4768 |
| 30° | 5282 | 4839 | 4650 |
| 35° | 5270 | 4775 | 4512 |
| 40° | 5223 | 4688 | 4331 |
| 45° | 5123 | 4573 | 3591 |
| 50° | 5047 | 4450 | 3198 |
| 55° | 4922 | 4272 | 3043 |
| 60° | 4816 | 4080 | 2923 |
| 65° | 4702 | 3857 | 2837 |
| 70° | 4519 | 3612 | 2782 |
| 75° | 4266 | 3311 | 2560 |
| 80° | 3905 | 2785 | 2270 |
| 85° | 3498 | 2414 | 2291 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 182.6 | 2.9 |
| 10°-20° | 518.6 | 8.3 |
| 20°-30° | 774.0 | 12.4 |
| 30°-40° | 922.2 | 14.8 |
| 40°-50° | 917.3 | 14.7 |
| 50°-60° | 786.2 | 12.6 |
| 60°-70° | 592.1 | 9.5 |
| 70°-80° | 342.9 | 5.5 |
| 80°-90° | 103.1 | 1.7 |
| 90°-100° | 110.6 | 1.8 |
| 100°-110° | 227.2 | 3.6 |
| 110°-120° | 240.2 | 3.9 |
| 120°-130° | 200.4 | 3.2 |
| 130°-140° | 140.0 | 2.2 |
| 140°-150° | 87.1 | 1.4 |
| 150°-160° | 54.0 | 0.9 |
| 160°-170° | 30.4 | 0.5 |
| 170°-180° | 9.8 | 0.2 |
| 0°-30° | 1475.2 | 23.6 |
| 0°-40° | 2397.5 | 38.4 |
| 0°-60° | 4101.0 | 65.7 |
| 0°-90° | 5139.1 | 82.4 |
| 90°-120° | 578.1 | 9.3 |
| 90°-150° | 1005.7 | 16.1 |
| 90°-180° | 1100.0 | 17.6 |
| 0°-180° | 6239.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1926 | 1926 | 1926 | 1926 | 1926 | |
| 5° | 1928 | 1922 | 1907 | 1921 | 1919 | 183 |
| 15° | 1880 | 1878 | 1838 | 1807 | 1788 | 531 |
| 25° | 1776 | 1751 | 1657 | 1616 | 1606 | 819 |
| 35° | 1604 | 1561 | 1454 | 1397 | 1374 | 1002 |
| 45° | 1346 | 1313 | 1202 | 1082 | 944 | 1041 |
| 55° | 1049 | 1034 | 910 | 723 | 649 | 938 |
| 65° | 738 | 721 | 606 | 471 | 446 | 730 |
| 75° | 410 | 397 | 318 | 254 | 246 | 435 |
| 85° | 113 | 100 | 78 | 74 | 74 | 121 |
| 90° | 6 | 27 | 47 | 59 | 62 | 12 |
| 95° | 62 | 84 | 96 | 141 | 152 | 60 |
| 105° | 146 | 152 | 219 | 293 | 311 | 152 |
| 115° | 182 | 154 | 232 | 320 | 352 | 177 |
| 125° | 168 | 148 | 201 | 295 | 332 | 149 |
| 135° | 137 | 148 | 162 | 219 | 252 | 107 |
| 145° | 111 | 129 | 141 | 150 | 160 | 71 |
| 155° | 102 | 108 | 115 | 125 | 127 | 47 |
| 165° | 100 | 104 | 108 | 111 | 111 | 28 |
| 175° | 98 | 100 | 102 | 104 | 106 | 9 |
| 180° | 96 | 96 | 96 | 96 | 96 | |



TEST NUMBER: P520778

CATALOG NUMBER: 8WSLA-75-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1926.4 | 1926.4 | 1926.4 | 1926.4 | 1926.4 |
| 2.5° | 1932.3 | 1928.4 | 1912.8 | 1928.4 | 1924.5 |
| 5° | 1928.4 | 1922.5 | 1906.9 | 1920.6 | 1918.6 |
| 7.5° | 1920.6 | 1916.7 | 1899.1 | 1914.7 | 1912.8 |
| 10° | 1910.8 | 1904.9 | 1889.3 | 1901.0 | 1893.2 |
| 12.5° | 1897.1 | 1893.2 | 1869.8 | 1860.0 | 1844.4 |
| 15° | 1879.5 | 1877.6 | 1838.5 | 1807.2 | 1787.7 |
| 17.5° | 1860.0 | 1852.2 | 1797.5 | 1760.4 | 1742.8 |
| 20° | 1836.6 | 1824.8 | 1752.5 | 1709.6 | 1692.0 |
| 22.5° | 1809.2 | 1791.6 | 1707.6 | 1666.6 | 1649.0 |
| 25° | 1776.0 | 1750.6 | 1656.8 | 1615.8 | 1606.0 |
| 27.5° | 1738.9 | 1709.6 | 1609.9 | 1568.9 | 1557.2 |
| 30° | 1699.8 | 1662.7 | 1557.2 | 1518.1 | 1496.6 |
| 32.5° | 1650.9 | 1615.8 | 1506.4 | 1461.4 | 1438.0 |
| 35° | 1604.1 | 1561.1 | 1453.6 | 1397.0 | 1373.5 |
| 37.5° | 1547.4 | 1504.4 | 1393.0 | 1336.4 | 1309.0 |
| 40° | 1486.8 | 1443.8 | 1334.4 | 1268.0 | 1232.8 |
| 42.5° | 1420.4 | 1381.3 | 1270.0 | 1189.9 | 1121.5 |
| 45° | 1346.2 | 1312.9 | 1201.6 | 1082.4 | 943.7 |
| 47.5° | 1277.8 | 1246.5 | 1133.2 | 978.8 | 836.2 |
| 50° | 1205.5 | 1176.2 | 1062.9 | 881.2 | 763.9 |
| 52.5° | 1125.4 | 1103.9 | 986.7 | 797.1 | 703.4 |
| 55° | 1049.2 | 1033.6 | 910.5 | 722.9 | 648.7 |
| 57.5° | 969.1 | 953.4 | 834.3 | 652.6 | 594.0 |
| 60° | 894.8 | 879.2 | 758.1 | 590.0 | 543.2 |
| 62.5° | 820.6 | 799.1 | 683.8 | 529.5 | 490.4 |
| 65° | 738.5 | 720.9 | 605.7 | 470.9 | 445.5 |
| 67.5° | 656.5 | 640.8 | 533.4 | 416.2 | 398.6 |
| 70° | 574.4 | 560.7 | 459.1 | 363.4 | 353.6 |
| 72.5° | 494.3 | 476.7 | 392.7 | 310.7 | 306.7 |
| 75° | 410.3 | 396.6 | 318.5 | 254.0 | 246.2 |
| 77.5° | 330.2 | 318.5 | 250.1 | 193.4 | 187.6 |
| 80° | 252.0 | 240.3 | 179.7 | 140.7 | 146.5 |
| 82.5° | 185.6 | 170.0 | 121.1 | 109.4 | 115.3 |
| 85° | 113.3 | 99.6 | 78.2 | 74.2 | 74.2 |
| 87.5° | 39.1 | 37.1 | 35.2 | 41.0 | 43.0 |
| 90° | 5.9 | 27.4 | 46.9 | 58.6 | 62.5 |
| 92.5° | 33.2 | 48.8 | 64.5 | 76.2 | 80.1 |
| 95° | 62.5 | 84.0 | 95.7 | 140.7 | 152.4 |
| 97.5° | 86.0 | 111.4 | 125.0 | 166.1 | 177.8 |
| 100° | 109.4 | 132.9 | 175.8 | 197.3 | 211.0 |
| 102.5° | 128.9 | 146.5 | 207.1 | 250.1 | 257.9 |
| 105° | 146.5 | 152.4 | 218.8 | 293.1 | 310.7 |



TEST NUMBER: P520778

CATALOG NUMBER: 8WSLA-75-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 175.8 | 156.3 | 234.5 | 318.5 | 349.7 |
| 115° | 181.7 | 154.3 | 232.5 | 320.4 | 351.7 |
| 117.5° | 181.7 | 154.3 | 226.6 | 320.4 | 351.7 |
| 120° | 177.8 | 156.3 | 218.8 | 316.5 | 349.7 |
| 122.5° | 173.9 | 152.4 | 211.0 | 308.7 | 341.9 |
| 125° | 168.0 | 148.5 | 201.2 | 295.0 | 332.1 |
| 127.5° | 158.3 | 152.4 | 191.5 | 277.4 | 314.6 |
| 130° | 150.4 | 154.3 | 179.7 | 259.9 | 297.0 |
| 132.5° | 144.6 | 150.4 | 168.0 | 240.3 | 273.5 |
| 135° | 136.8 | 148.5 | 162.2 | 218.8 | 252.0 |
| 137.5° | 130.9 | 142.6 | 152.4 | 199.3 | 226.6 |
| 140° | 125.0 | 138.7 | 142.6 | 173.9 | 197.3 |
| 142.5° | 117.2 | 132.9 | 134.8 | 162.2 | 171.9 |
| 145° | 111.4 | 128.9 | 140.7 | 150.4 | 160.2 |
| 147.5° | 105.5 | 121.1 | 136.8 | 138.7 | 148.5 |
| 150° | 103.6 | 113.3 | 130.9 | 132.9 | 136.8 |
| 152.5° | 101.6 | 109.4 | 121.1 | 132.9 | 134.8 |
| 155° | 101.6 | 107.5 | 115.3 | 125.0 | 127.0 |
| 157.5° | 99.6 | 107.5 | 111.4 | 119.2 | 121.1 |
| 160° | 99.6 | 105.5 | 109.4 | 115.3 | 117.2 |
| 162.5° | 99.6 | 105.5 | 107.5 | 113.3 | 115.3 |
| 165° | 99.6 | 103.6 | 107.5 | 111.4 | 111.4 |
| 167.5° | 99.6 | 103.6 | 105.5 | 109.4 | 109.4 |
| 170° | 99.6 | 101.6 | 105.5 | 107.5 | 107.5 |
| 172.5° | 97.7 | 101.6 | 103.6 | 107.5 | 107.5 |
| 175° | 97.7 | 99.6 | 101.6 | 103.6 | 105.5 |
| 177.5° | 93.8 | 99.6 | 101.6 | 103.6 | 101.6 |
| 180° | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 160.2 | 154.3 | 226.6 | 308.7 | 334.1 |
| 110° | 170.0 | 156.3 | 232.5 | 314.6 | 345.8 |



(END OF REPORT)