

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: METALUX

Report Number: P217992

Luminaire Tested: **4SNLED-LD5-64SL-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P217992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35691)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-64SL-UNV-L835-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6486.0 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

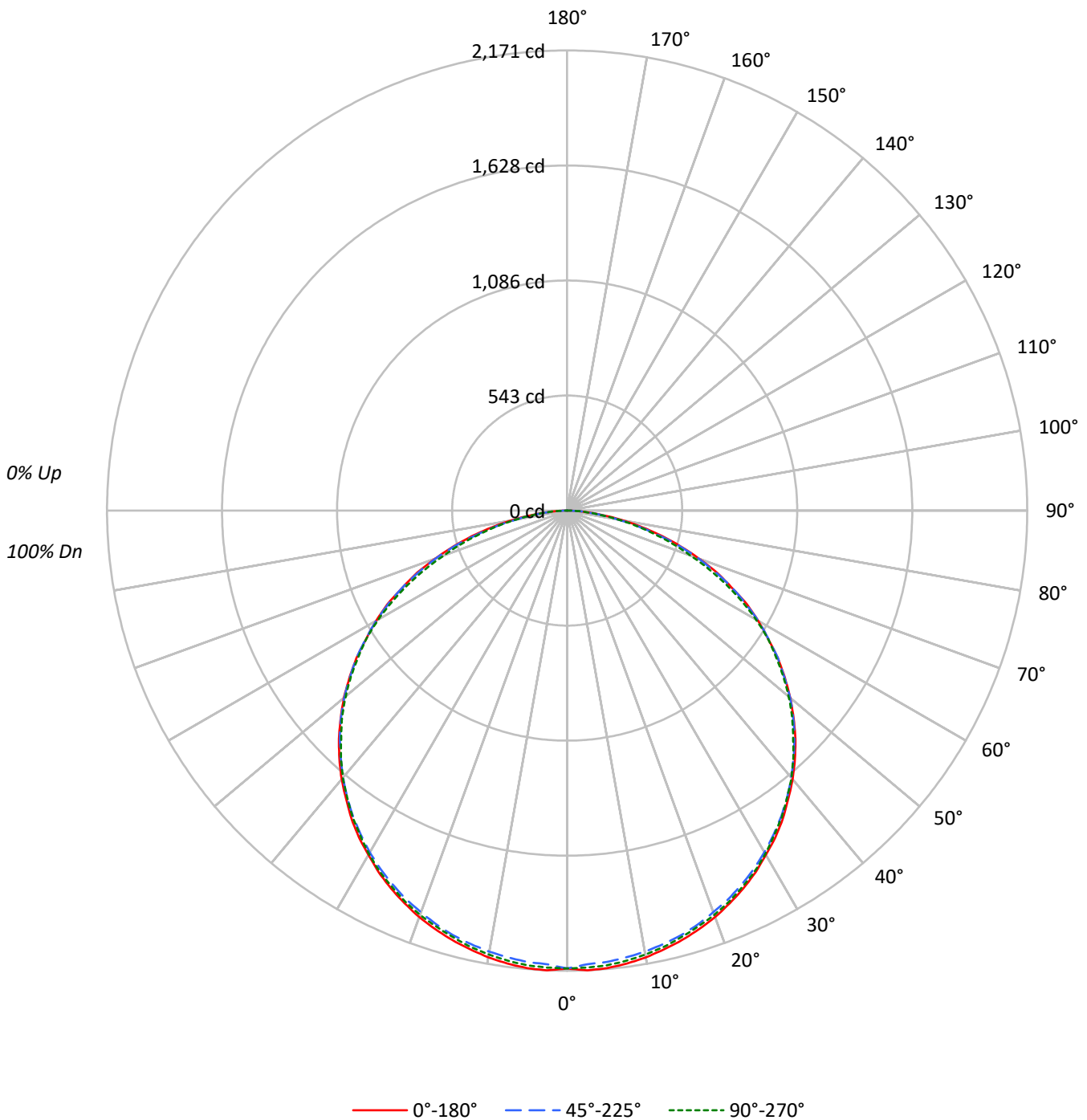
Input Watts (W): 51.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 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 | 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 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 85 | 83 | | | | | 83 | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 | | | | | 69 | | | |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | 49 | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 | | | | | 42 | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 37 | | | | | 37 | | | |
| 7 | 64 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | | | | | 32 | | | |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 | | | | | 29 | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 29 | 25 | 23 | | | | | 23 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 34807 | 34807 | 34807 |
| 5° | 34921 | 32484 | 32029 |
| 10° | 34758 | 30599 | 29579 |
| 15° | 34600 | 28908 | 27416 |
| 20° | 34478 | 27269 | 25521 |
| 25° | 34308 | 25766 | 23744 |
| 30° | 34070 | 24305 | 22067 |
| 35° | 33911 | 22851 | 20424 |
| 40° | 33643 | 21374 | 18831 |
| 45° | 33318 | 19897 | 17175 |
| 50° | 32835 | 18326 | 15599 |
| 55° | 32173 | 16614 | 13910 |
| 60° | 31280 | 14738 | 12145 |
| 65° | 29907 | 12665 | 10063 |
| 70° | 27967 | 10239 | 7783 |
| 75° | 25010 | 7375 | 5577 |
| 80° | 20025 | 4382 | 3463 |
| 85° | 12353 | 1894 | 1401 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 204.7 | 3.2 |
| 10°-20° | 589.3 | 9.1 |
| 20°-30° | 902.9 | 13.9 |
| 30°-40° | 1105.2 | 17.0 |
| 40°-50° | 1169.5 | 18.0 |
| 50°-60° | 1081.7 | 16.7 |
| 60°-70° | 839.9 | 12.9 |
| 70°-80° | 473.1 | 7.3 |
| 80°-90° | 119.7 | 1.8 |
| 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° | 1697.0 | 26.2 |
| 0°-40° | 2802.1 | 43.2 |
| 0°-60° | 5053.3 | 77.9 |
| 0°-90° | 6486.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6486.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2160 | 2160 | 2160 | 2160 | 2160 | |
| 5° | 2167 | 2158 | 2138 | 2158 | 2153 | 206 |
| 15° | 2097 | 2091 | 2075 | 2093 | 2084 | 592 |
| 25° | 1967 | 1960 | 1947 | 1963 | 1958 | 907 |
| 35° | 1774 | 1768 | 1761 | 1765 | 1765 | 1109 |
| 45° | 1523 | 1521 | 1516 | 1514 | 1507 | 1174 |
| 55° | 1214 | 1218 | 1214 | 1209 | 1202 | 1083 |
| 65° | 855 | 861 | 857 | 846 | 830 | 848 |
| 75° | 464 | 464 | 444 | 433 | 424 | 489 |
| 85° | 99 | 99 | 96 | 96 | 94 | 123 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P217992

CATALOG NUMBER: 4SNLED-LD5-64SL-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2160.1 | 2160.1 | 2160.1 | 2160.1 | 2160.1 |
| 2.5° | 2171.3 | 2162.4 | 2142.2 | 2162.4 | 2157.9 |
| 5° | 2166.8 | 2157.9 | 2137.7 | 2157.9 | 2153.4 |
| 7.5° | 2155.6 | 2148.9 | 2126.5 | 2146.7 | 2142.2 |
| 10° | 2139.9 | 2133.2 | 2113.0 | 2133.2 | 2126.5 |
| 12.5° | 2119.7 | 2113.0 | 2095.1 | 2113.0 | 2108.5 |
| 15° | 2097.3 | 2090.6 | 2074.9 | 2092.8 | 2083.8 |
| 17.5° | 2070.4 | 2065.9 | 2048.0 | 2065.9 | 2056.9 |
| 20° | 2041.2 | 2032.3 | 2016.6 | 2034.5 | 2030.0 |
| 22.5° | 2005.3 | 2000.8 | 1985.1 | 2000.8 | 1996.4 |
| 25° | 1967.2 | 1960.5 | 1947.0 | 1962.7 | 1958.2 |
| 27.5° | 1924.6 | 1920.1 | 1906.6 | 1917.9 | 1917.9 |
| 30° | 1875.2 | 1873.0 | 1861.8 | 1873.0 | 1870.7 |
| 32.5° | 1828.1 | 1823.6 | 1812.4 | 1821.4 | 1816.9 |
| 35° | 1774.3 | 1767.6 | 1760.8 | 1765.3 | 1765.3 |
| 37.5° | 1713.7 | 1711.5 | 1704.8 | 1711.5 | 1704.8 |
| 40° | 1655.4 | 1650.9 | 1644.2 | 1646.4 | 1646.4 |
| 42.5° | 1590.4 | 1588.1 | 1581.4 | 1581.4 | 1579.1 |
| 45° | 1523.1 | 1520.8 | 1516.3 | 1514.1 | 1507.4 |
| 47.5° | 1449.0 | 1446.8 | 1446.8 | 1444.6 | 1440.1 |
| 50° | 1375.0 | 1375.0 | 1372.8 | 1366.1 | 1363.8 |
| 52.5° | 1294.3 | 1298.8 | 1292.0 | 1287.5 | 1285.3 |
| 55° | 1213.5 | 1218.0 | 1213.5 | 1209.0 | 1202.3 |
| 57.5° | 1123.8 | 1132.8 | 1126.0 | 1123.8 | 1121.6 |
| 60° | 1040.8 | 1045.3 | 1040.8 | 1034.1 | 1029.6 |
| 62.5° | 955.6 | 955.6 | 948.8 | 944.3 | 930.9 |
| 65° | 854.6 | 861.4 | 856.9 | 845.7 | 829.9 |
| 67.5° | 764.9 | 760.4 | 755.9 | 742.5 | 724.5 |
| 70° | 661.7 | 664.0 | 657.2 | 637.0 | 619.1 |
| 72.5° | 563.0 | 567.5 | 554.0 | 527.1 | 522.6 |
| 75° | 464.3 | 464.3 | 444.1 | 432.9 | 423.9 |
| 77.5° | 363.4 | 365.6 | 338.7 | 336.5 | 334.2 |
| 80° | 266.9 | 271.4 | 244.5 | 251.2 | 249.0 |
| 82.5° | 181.7 | 177.2 | 166.0 | 166.0 | 163.7 |
| 85° | 98.7 | 98.7 | 96.5 | 96.5 | 94.2 |
| 87.5° | 38.1 | 40.4 | 44.9 | 49.3 | 47.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)