

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: NEO-RAY

Report Number: P334589

Luminaire Tested: **S122IW-S1440U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IW-S1440U835-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1440 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5765.7 lumens
Efficiency: N/A
Efficacy: 188.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

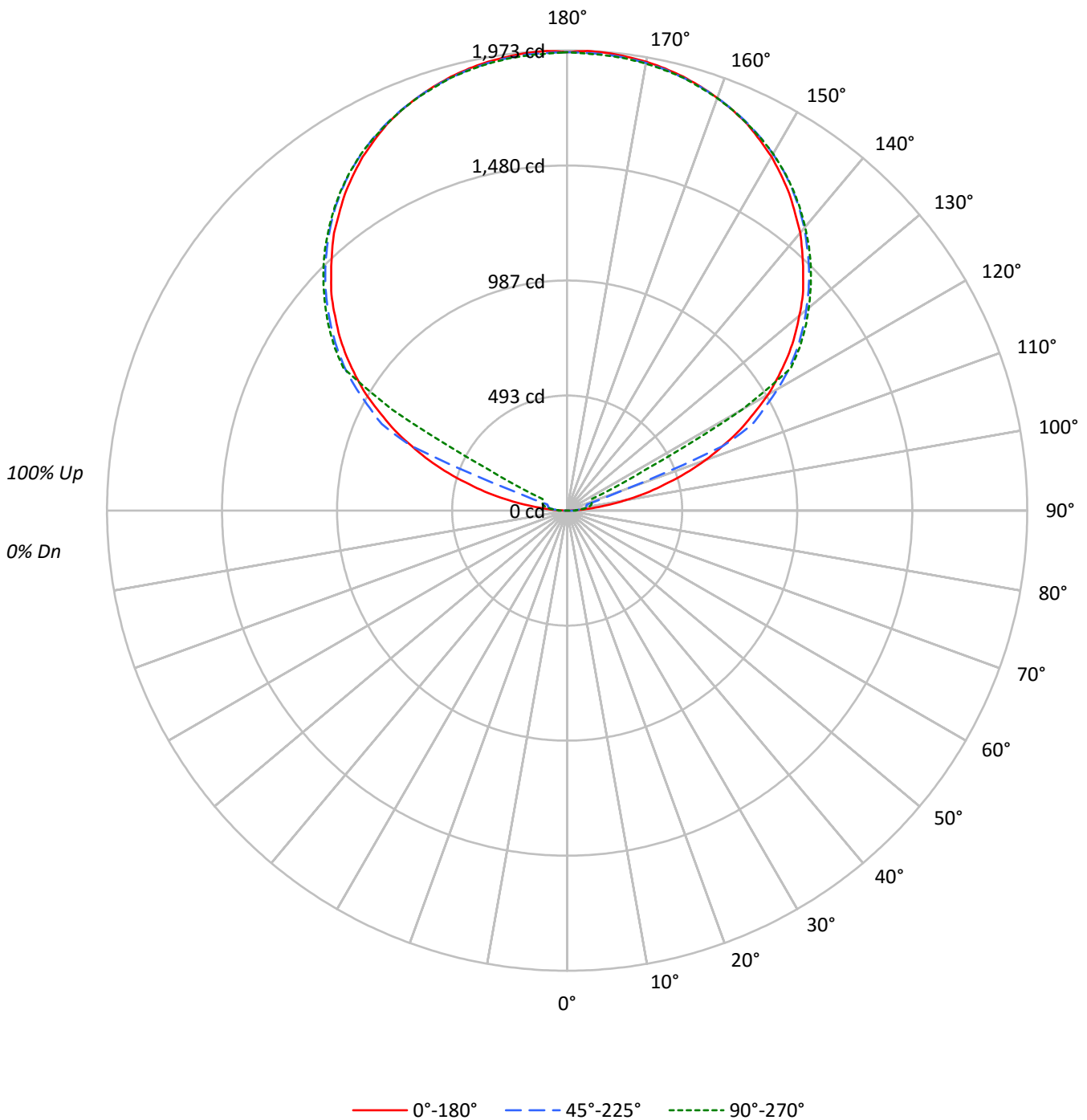
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|----|-----|-----|
| 0° | 0 | 0 | 0 |
| 5° | 0 | 0 | 0 |
| 10° | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 |
| 20° | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 |
| 30° | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 3.5 | 0.1 |
| 90°-100° | 64.8 | 1.1 |
| 100°-110° | 241.6 | 4.2 |
| 110°-120° | 640.8 | 11.1 |
| 120°-130° | 1062.8 | 18.4 |
| 130°-140° | 1128.9 | 19.6 |
| 140°-150° | 1049.2 | 18.2 |
| 150°-160° | 843.5 | 14.6 |
| 160°-170° | 543.5 | 9.4 |
| 170°-180° | 187.1 | 3.2 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 3.5 | 0.1 |
| 90°-120° | 947.2 | 16.4 |
| 90°-150° | 4188.1 | 72.6 |
| 90°-180° | 5762.0 | 99.9 |
| 0°-180° | 5765.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 0 | 0 | 0 | 0 | 0 | |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 1 | 17 | 28 | 36 | 38 | 5 |
| 95° | 92 | 46 | 56 | 63 | 61 | 109 |
| 105° | 432 | 475 | 87 | 102 | 108 | 462 |
| 115° | 818 | 842 | 878 | 219 | 117 | 805 |
| 125° | 1156 | 1175 | 1202 | 1212 | 1216 | 1031 |
| 135° | 1431 | 1454 | 1466 | 1481 | 1478 | 1105 |
| 145° | 1660 | 1658 | 1682 | 1692 | 1685 | 1038 |
| 155° | 1828 | 1815 | 1832 | 1840 | 1829 | 842 |
| 165° | 1926 | 1917 | 1921 | 1931 | 1921 | 544 |
| 175° | 1970 | 1960 | 1963 | 1973 | 1958 | 187 |
| 180° | 1966 | 1966 | 1966 | 1966 | 1966 | |



TEST NUMBER: P334589

CATALOG NUMBER: S122IW-S1440U835-4F0-1E-UDD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 1.4 | 17.1 | 28.4 | 35.6 | 38.4 |
| 92.5° | 35.6 | 29.9 | 34.1 | 37.0 | 38.4 |
| 95° | 92.4 | 45.5 | 55.5 | 62.6 | 61.2 |
| 97.5° | 166.4 | 49.8 | 72.5 | 76.8 | 78.2 |
| 100° | 251.7 | 56.9 | 81.1 | 92.4 | 95.3 |
| 102.5° | 345.6 | 342.8 | 83.9 | 99.6 | 103.8 |
| 105° | 432.4 | 475.0 | 86.8 | 102.4 | 108.1 |
| 107.5° | 533.3 | 568.9 | 89.6 | 105.2 | 110.9 |
| 110° | 630.1 | 659.9 | 248.9 | 106.7 | 112.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 721.1 | 746.7 | 722.5 | 109.5 | 113.8 |
| 115° | 817.8 | 842.0 | 877.5 | 219.0 | 116.6 |
| 117.5° | 901.7 | 930.1 | 954.3 | 750.9 | 378.3 |
| 120° | 995.6 | 1016.9 | 1042.5 | 1059.6 | 867.6 |
| 122.5° | 1075.2 | 1098.0 | 1126.4 | 1134.9 | 1136.4 |
| 125° | 1156.3 | 1174.8 | 1201.8 | 1211.7 | 1216.0 |
| 127.5° | 1230.2 | 1250.1 | 1271.5 | 1285.7 | 1287.1 |
| 130° | 1299.9 | 1322.7 | 1338.3 | 1354.0 | 1352.5 |
| 132.5° | 1371.0 | 1389.5 | 1405.2 | 1418.0 | 1416.5 |
| 135° | 1430.8 | 1453.5 | 1466.3 | 1480.6 | 1477.7 |
| 137.5° | 1493.4 | 1510.4 | 1524.6 | 1538.9 | 1534.6 |
| 140° | 1554.5 | 1565.9 | 1581.5 | 1594.3 | 1587.2 |
| 142.5° | 1605.7 | 1615.7 | 1634.2 | 1645.5 | 1638.4 |
| 145° | 1659.8 | 1658.3 | 1682.5 | 1692.5 | 1685.4 |
| 147.5° | 1706.7 | 1702.4 | 1726.6 | 1733.7 | 1728.0 |
| 150° | 1752.2 | 1742.2 | 1765.0 | 1773.5 | 1766.4 |
| 152.5° | 1790.6 | 1779.2 | 1800.6 | 1809.1 | 1799.1 |
| 155° | 1827.6 | 1814.8 | 1831.8 | 1840.4 | 1829.0 |
| 157.5° | 1857.4 | 1846.1 | 1858.9 | 1868.8 | 1857.4 |
| 160° | 1883.0 | 1874.5 | 1883.0 | 1891.6 | 1881.6 |
| 162.5° | 1905.8 | 1897.3 | 1904.4 | 1914.3 | 1901.5 |
| 165° | 1925.7 | 1917.2 | 1921.4 | 1931.4 | 1921.4 |
| 167.5° | 1941.4 | 1932.8 | 1937.1 | 1947.0 | 1934.2 |
| 170° | 1954.2 | 1945.6 | 1948.5 | 1958.4 | 1945.6 |
| 172.5° | 1962.7 | 1954.2 | 1957.0 | 1967.0 | 1954.2 |
| 175° | 1969.8 | 1959.8 | 1962.7 | 1972.6 | 1958.4 |
| 177.5° | 1972.6 | 1962.7 | 1964.1 | 1974.1 | 1961.3 |
| 180° | 1965.5 | 1965.5 | 1965.5 | 1965.5 | 1965.5 |

(END OF REPORT)