

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: P334868

Luminaire Tested: **S124IW-S1340U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IW-S1340U835-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1340 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4656.3 lumens
Efficiency: N/A
Efficacy: 181.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

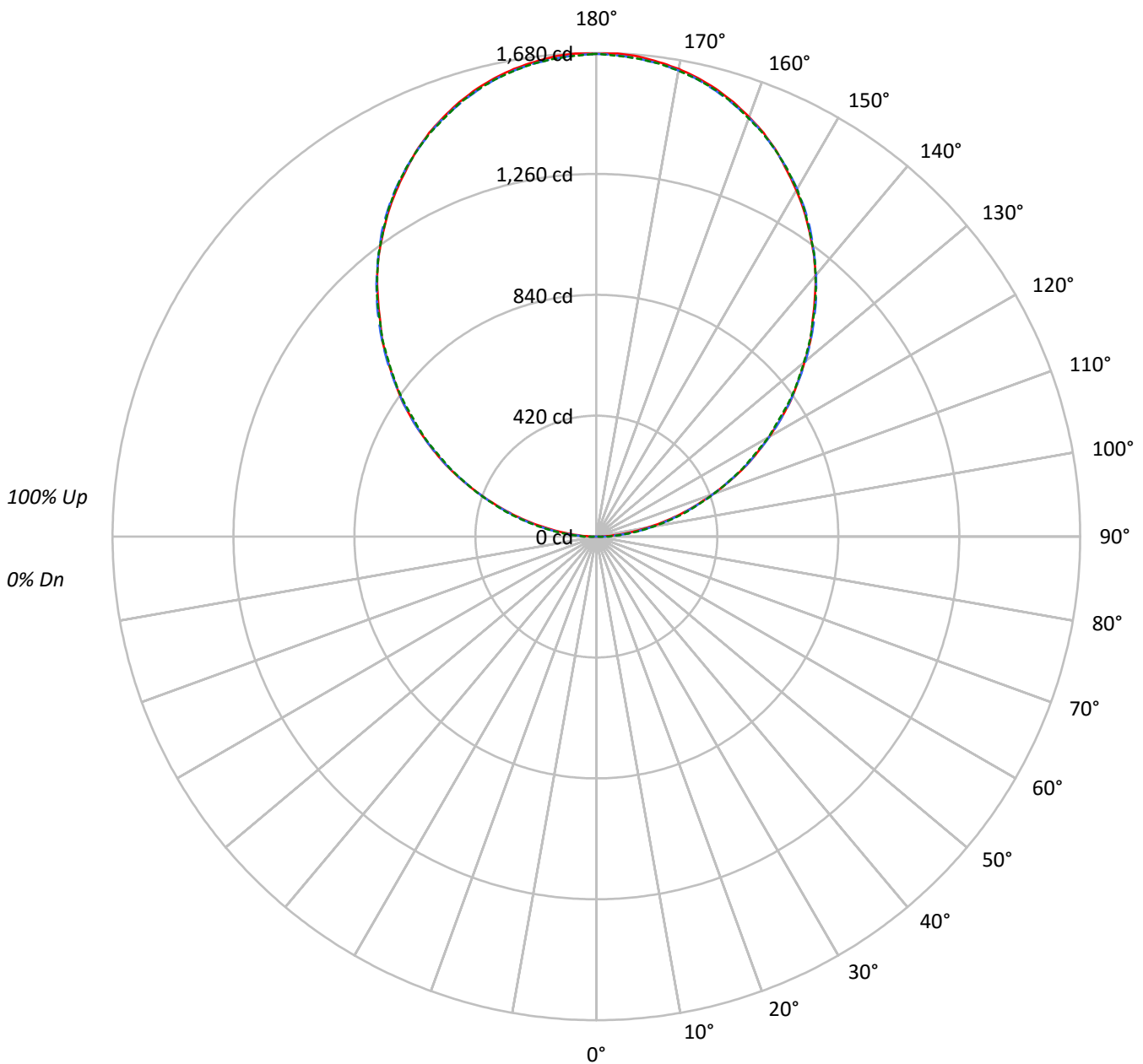
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



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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° | 3.6 | 0.1 |
| 90°-100° | 109.3 | 2.3 |
| 100°-110° | 327.4 | 7.0 |
| 110°-120° | 556.2 | 11.9 |
| 120°-130° | 733.5 | 15.8 |
| 130°-140° | 823.8 | 17.7 |
| 140°-150° | 809.7 | 17.4 |
| 150°-160° | 681.0 | 14.6 |
| 160°-170° | 453.1 | 9.7 |
| 170°-180° | 158.7 | 3.4 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 3.6 | 0.1 |
| 90°-120° | 992.9 | 21.3 |
| 90°-150° | 3359.9 | 72.2 |
| 90°-180° | 4653.0 | 99.9 |
| 0°-180° | 4656.3 | 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° | 4 | 18 | 28 | 36 | 39 | 6 |
| 95° | 78 | 90 | 99 | 102 | 102 | 84 |
| 105° | 302 | 304 | 309 | 312 | 316 | 320 |
| 115° | 565 | 565 | 563 | 562 | 560 | 558 |
| 125° | 824 | 824 | 822 | 820 | 817 | 734 |
| 135° | 1062 | 1070 | 1070 | 1067 | 1063 | 822 |
| 145° | 1290 | 1296 | 1297 | 1296 | 1292 | 808 |
| 155° | 1478 | 1478 | 1477 | 1482 | 1477 | 680 |
| 165° | 1609 | 1606 | 1603 | 1611 | 1606 | 454 |
| 175° | 1674 | 1668 | 1666 | 1676 | 1666 | 159 |
| 180° | 1677 | 1677 | 1677 | 1677 | 1677 | |



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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° | 3.9 | 18.2 | 28.5 | 36.3 | 38.9 |
| 92.5° | 33.7 | 50.6 | 57.1 | 61.0 | 62.3 |
| 95° | 77.8 | 89.5 | 98.6 | 102.5 | 102.5 |
| 97.5° | 124.5 | 134.9 | 145.3 | 150.4 | 150.4 |
| 100° | 181.6 | 186.8 | 198.4 | 201.0 | 201.0 |
| 102.5° | 241.2 | 242.5 | 252.9 | 256.8 | 258.1 |
| 105° | 302.2 | 303.5 | 308.7 | 312.5 | 316.4 |
| 107.5° | 365.7 | 367.0 | 368.3 | 373.5 | 372.2 |
| 110° | 430.6 | 433.2 | 431.9 | 429.3 | 433.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 498.0 | 498.0 | 495.4 | 495.4 | 495.4 |
| 115° | 565.4 | 565.4 | 562.8 | 561.6 | 560.3 |
| 117.5° | 629.0 | 629.0 | 627.7 | 623.8 | 619.9 |
| 120° | 692.5 | 697.7 | 693.8 | 687.3 | 689.9 |
| 122.5° | 758.7 | 760.0 | 758.7 | 754.8 | 748.3 |
| 125° | 823.5 | 823.5 | 822.2 | 819.6 | 817.0 |
| 127.5° | 881.9 | 885.8 | 883.2 | 880.6 | 879.3 |
| 130° | 944.1 | 948.0 | 948.0 | 945.4 | 940.2 |
| 132.5° | 1007.7 | 1010.3 | 1009.0 | 1006.4 | 1005.1 |
| 135° | 1062.1 | 1069.9 | 1069.9 | 1067.3 | 1063.4 |
| 137.5° | 1123.1 | 1127.0 | 1129.6 | 1125.7 | 1127.0 |
| 140° | 1184.1 | 1186.6 | 1186.6 | 1185.4 | 1184.1 |
| 142.5° | 1239.8 | 1242.4 | 1241.1 | 1241.1 | 1241.1 |
| 145° | 1290.4 | 1295.6 | 1296.9 | 1295.6 | 1291.7 |
| 147.5° | 1342.3 | 1348.8 | 1347.5 | 1346.2 | 1344.9 |
| 150° | 1389.0 | 1394.1 | 1394.1 | 1394.1 | 1392.9 |
| 152.5° | 1433.1 | 1435.7 | 1436.9 | 1440.8 | 1436.9 |
| 155° | 1478.4 | 1478.4 | 1477.2 | 1482.3 | 1477.2 |
| 157.5° | 1517.4 | 1514.8 | 1514.8 | 1518.7 | 1514.8 |
| 160° | 1551.1 | 1549.8 | 1548.5 | 1552.4 | 1545.9 |
| 162.5° | 1582.2 | 1578.3 | 1577.0 | 1584.8 | 1578.3 |
| 165° | 1609.4 | 1605.5 | 1602.9 | 1610.7 | 1605.5 |
| 167.5° | 1631.5 | 1626.3 | 1626.3 | 1634.1 | 1626.3 |
| 170° | 1649.6 | 1643.2 | 1644.4 | 1652.2 | 1643.2 |
| 172.5° | 1662.6 | 1657.4 | 1657.4 | 1666.5 | 1657.4 |
| 175° | 1674.3 | 1667.8 | 1666.5 | 1675.6 | 1666.5 |
| 177.5° | 1679.5 | 1673.0 | 1673.0 | 1682.1 | 1671.7 |
| 180° | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 |

(END OF REPORT)