

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P983472

Luminaire Tested: S125IW-B1560UB35-4F0-XX-W2A-1

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P983472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125IW-B1560UB35-4F0-XX-W2A-1  
Description: Define 5 Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

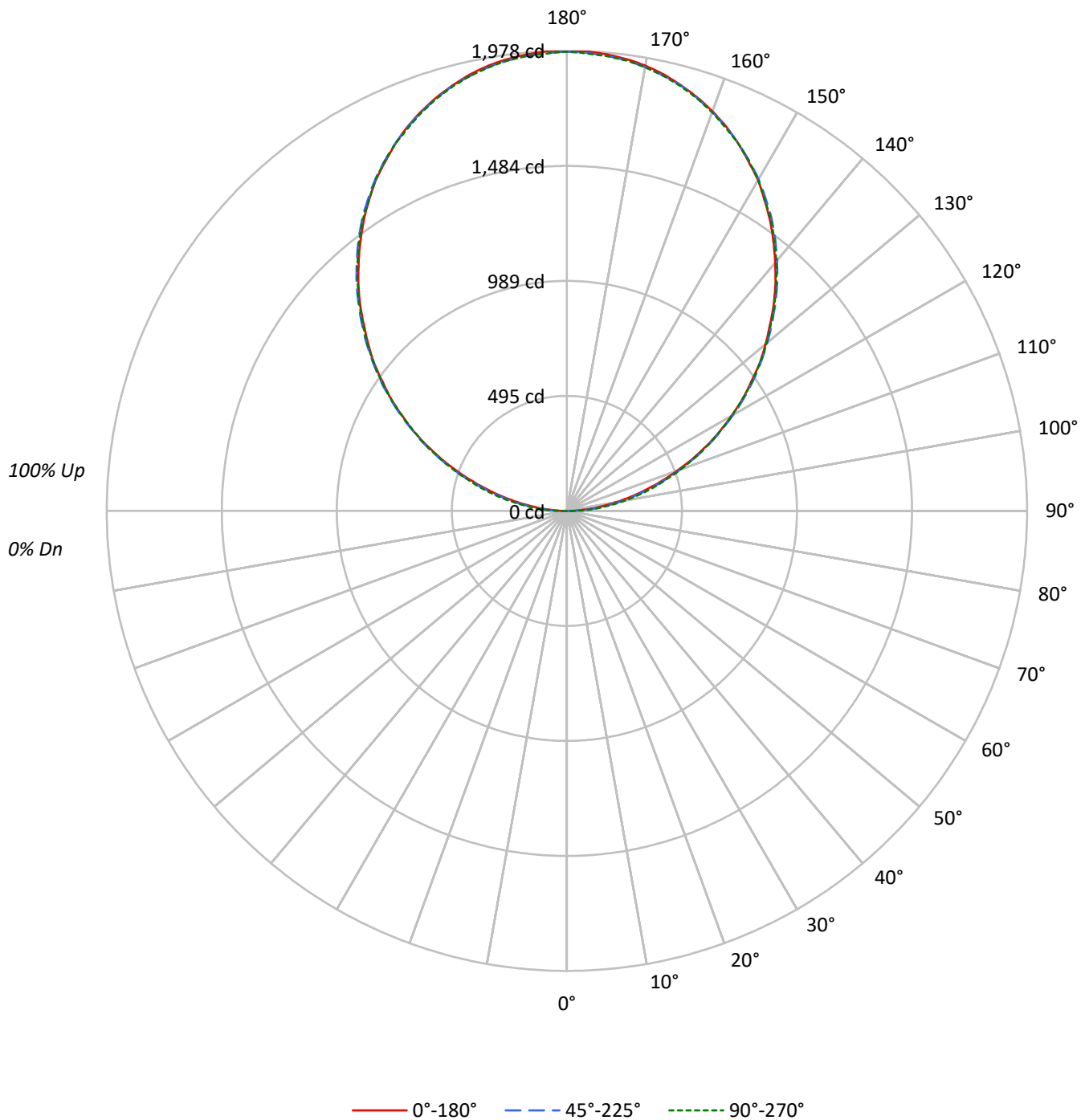
Lumens per Lamp: N/A  
Luminaire Lumens: 5515.0 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 52.2  
Input Voltage (V):  
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: 24 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 |
| RW  | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 8  |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  |
| 3   | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  |

**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   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 0°  
Luminance: 0 cd/sqm

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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°   | 3.1    | 0.1       |
| 90°-100°  | 131.3  | 2.4       |
| 100°-110° | 390.1  | 7.1       |
| 110°-120° | 661.7  | 12.0      |
| 120°-130° | 871.1  | 15.8      |
| 130°-140° | 976.1  | 17.7      |
| 140°-150° | 956.8  | 17.3      |
| 150°-160° | 803.6  | 14.6      |
| 160°-170° | 534.2  | 9.7       |
| 170°-180° | 186.9  | 3.4       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 3.1    | 0.1       |
| 90°-120°  | 1183.1 | 21.5      |
| 90°-150°  | 3987.1 | 72.3      |
| 90°-180°  | 5512.0 | 99.9      |
| 0°-180°   | 5515.0 | 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°  | 2    | 14    | 25   | 32    | 37   | 7    |
| 95°  | 100  | 103   | 118  | 129   | 132  | 104  |
| 105° | 350  | 358   | 367  | 376   | 381  | 374  |
| 115° | 662  | 669   | 672  | 670   | 669  | 655  |
| 125° | 967  | 976   | 978  | 974   | 973  | 866  |
| 135° | 1257 | 1266  | 1268 | 1268  | 1262 | 969  |
| 145° | 1523 | 1529  | 1534 | 1534  | 1529 | 952  |
| 155° | 1743 | 1743  | 1744 | 1751  | 1743 | 803  |
| 165° | 1895 | 1892  | 1894 | 1900  | 1890 | 535  |
| 175° | 1970 | 1964  | 1964 | 1973  | 1963 | 187  |
| 180° | 1975 | 1975  | 1975 | 1975  | 1975 |      |

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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°    | 1.5   | 13.8  | 24.6  | 32.3  | 36.9  |
| 92.5°  | 46.1  | 53.8  | 67.6  | 78.4  | 81.5  |
| 95°    | 99.9  | 103.0 | 118.3 | 129.1 | 132.2 |
| 97.5°  | 153.7 | 155.2 | 176.7 | 186.0 | 187.5 |
| 100°   | 215.2 | 215.2 | 235.1 | 249.0 | 252.1 |
| 102.5° | 281.3 | 288.9 | 296.6 | 312.0 | 316.6 |
| 105°   | 350.4 | 358.1 | 367.3 | 376.5 | 381.2 |
| 107.5° | 425.7 | 433.4 | 441.1 | 445.7 | 445.7 |
| 110°   | 504.1 | 511.8 | 516.4 | 521.0 | 519.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 584.0  | 587.1  | 593.3  | 594.8  | 591.7  |
| 115°   | 662.4  | 668.6  | 671.6  | 670.1  | 668.6  |
| 117.5° | 742.3  | 743.9  | 746.9  | 748.5  | 742.3  |
| 120°   | 816.1  | 823.8  | 825.3  | 825.3  | 819.2  |
| 122.5° | 896.0  | 897.6  | 902.2  | 900.6  | 896.0  |
| 125°   | 966.7  | 975.9  | 977.5  | 974.4  | 972.9  |
| 127.5° | 1045.1 | 1049.7 | 1051.3 | 1049.7 | 1046.6 |
| 130°   | 1114.3 | 1122.0 | 1125.0 | 1123.5 | 1120.4 |
| 132.5° | 1183.4 | 1197.3 | 1195.7 | 1194.2 | 1189.6 |
| 135°   | 1257.2 | 1266.4 | 1268.0 | 1268.0 | 1261.8 |
| 137.5° | 1326.4 | 1335.6 | 1338.7 | 1340.2 | 1332.5 |
| 140°   | 1392.5 | 1400.1 | 1404.8 | 1407.8 | 1400.1 |
| 142.5° | 1458.5 | 1464.7 | 1470.8 | 1472.4 | 1464.7 |
| 145°   | 1523.1 | 1529.2 | 1533.9 | 1533.9 | 1529.2 |
| 147.5° | 1583.0 | 1587.6 | 1590.7 | 1595.3 | 1583.0 |
| 150°   | 1643.0 | 1641.4 | 1647.6 | 1647.6 | 1644.5 |
| 152.5° | 1692.2 | 1695.2 | 1696.8 | 1701.4 | 1695.2 |
| 155°   | 1742.9 | 1742.9 | 1744.4 | 1750.6 | 1742.9 |
| 157.5° | 1789.0 | 1785.9 | 1787.4 | 1793.6 | 1782.8 |
| 160°   | 1828.9 | 1824.3 | 1825.9 | 1832.0 | 1824.3 |
| 162.5° | 1864.3 | 1861.2 | 1861.2 | 1868.9 | 1859.7 |
| 165°   | 1895.0 | 1892.0 | 1893.5 | 1899.6 | 1890.4 |
| 167.5° | 1922.7 | 1916.5 | 1916.5 | 1925.8 | 1916.5 |
| 170°   | 1944.2 | 1938.1 | 1938.1 | 1947.3 | 1936.5 |
| 172.5° | 1959.6 | 1953.4 | 1953.4 | 1962.7 | 1953.4 |
| 175°   | 1970.3 | 1964.2 | 1964.2 | 1973.4 | 1962.7 |
| 177.5° | 1978.0 | 1971.9 | 1970.3 | 1979.6 | 1968.8 |
| 180°   | 1974.9 | 1974.9 | 1974.9 | 1974.9 | 1974.9 |

(END OF REPORT)