

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: P983454

Luminaire Tested: S125IW-B1340UB40-4F0-XX-W2A-1

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P983454  
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-B1340UB40-4F0-XX-W2A-1  
Description: Define 5 Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

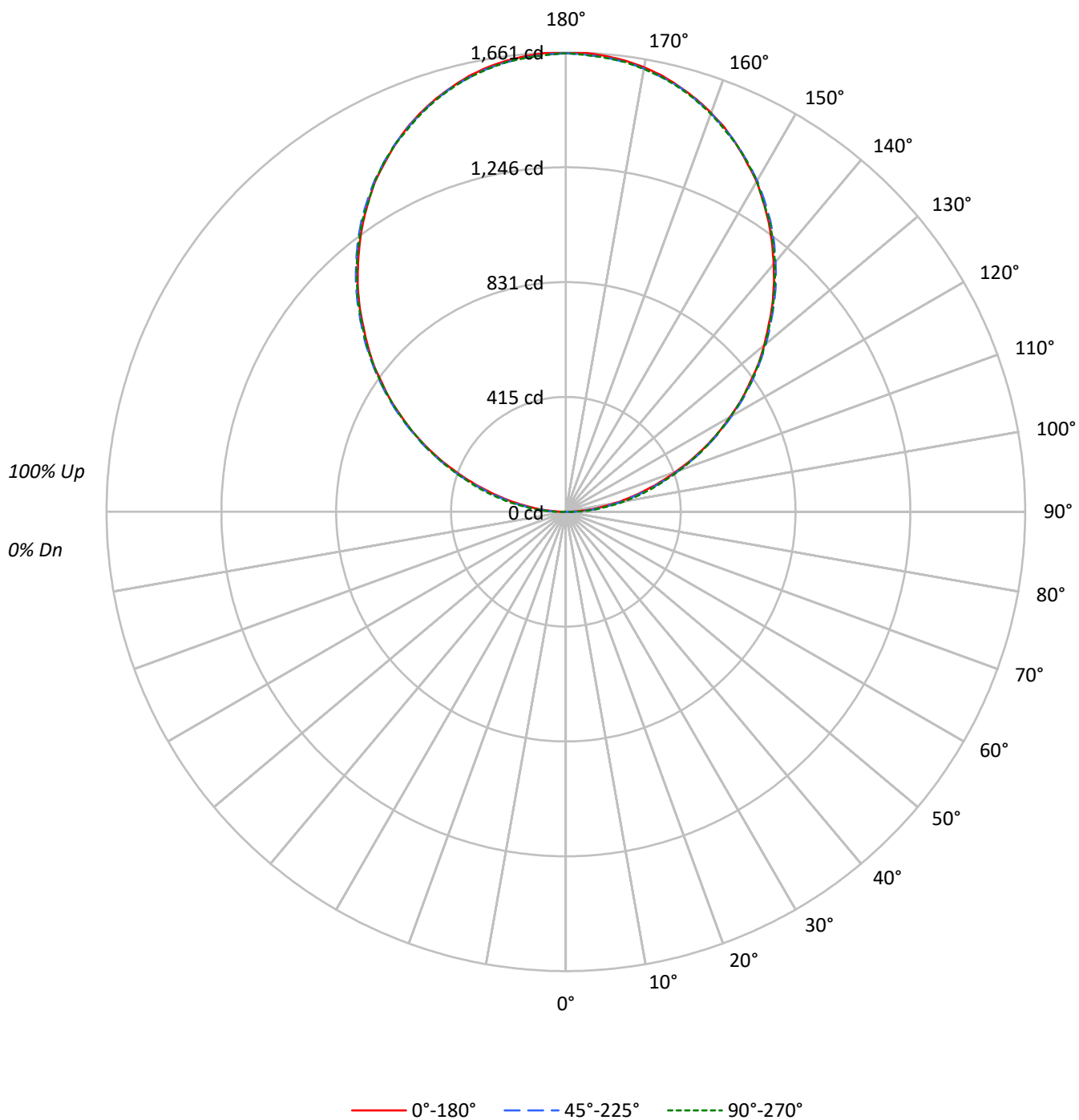
Lumens per Lamp: N/A  
Luminaire Lumens: 4630.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 42.1  
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°   | 2.6    | 0.1       |
| 90°-100°  | 110.3  | 2.4       |
| 100°-110° | 327.5  | 7.1       |
| 110°-120° | 555.5  | 12.0      |
| 120°-130° | 731.3  | 15.8      |
| 130°-140° | 819.5  | 17.7      |
| 140°-150° | 803.2  | 17.3      |
| 150°-160° | 674.7  | 14.6      |
| 160°-170° | 448.5  | 9.7       |
| 170°-180° | 157.0  | 3.4       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 2.6    | 0.1       |
| 90°-120°  | 993.3  | 21.5      |
| 90°-150°  | 3347.3 | 72.3      |
| 90°-180°  | 4627.0 | 99.9      |
| 0°-180°   | 4630.0 | 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°  | 1    | 12    | 21   | 27    | 31   | 6    |
| 95°  | 84   | 86    | 99   | 108   | 111  | 88   |
| 105° | 294  | 301   | 308  | 316   | 320  | 314  |
| 115° | 556  | 561   | 564  | 563   | 561  | 550  |
| 125° | 812  | 819   | 821  | 818   | 817  | 727  |
| 135° | 1056 | 1063  | 1064 | 1064  | 1059 | 814  |
| 145° | 1279 | 1284  | 1288 | 1288  | 1284 | 799  |
| 155° | 1463 | 1463  | 1464 | 1470  | 1463 | 674  |
| 165° | 1591 | 1588  | 1590 | 1595  | 1587 | 449  |
| 175° | 1654 | 1649  | 1649 | 1657  | 1648 | 157  |
| 180° | 1658 | 1658  | 1658 | 1658  | 1658 |      |

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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°    | 1.3   | 11.6  | 20.6  | 27.1  | 31.0  |
| 92.5°  | 38.7  | 45.2  | 56.8  | 65.8  | 68.4  |
| 95°    | 83.9  | 86.4  | 99.4  | 108.4 | 111.0 |
| 97.5°  | 129.0 | 130.3 | 148.4 | 156.1 | 157.4 |
| 100°   | 180.6 | 180.6 | 197.4 | 209.0 | 211.6 |
| 102.5° | 236.1 | 242.6 | 249.0 | 261.9 | 265.8 |
| 105°   | 294.2 | 300.6 | 308.4 | 316.1 | 320.0 |
| 107.5° | 357.4 | 363.9 | 370.3 | 374.2 | 374.2 |
| 110°   | 423.2 | 429.7 | 433.5 | 437.4 | 436.1 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 490.3  | 492.9  | 498.1  | 499.3  | 496.8  |
| 115°   | 556.1  | 561.3  | 563.9  | 562.6  | 561.3  |
| 117.5° | 623.2  | 624.5  | 627.1  | 628.4  | 623.2  |
| 120°   | 685.1  | 691.6  | 692.9  | 692.9  | 687.7  |
| 122.5° | 752.2  | 753.5  | 757.4  | 756.1  | 752.2  |
| 125°   | 811.6  | 819.3  | 820.6  | 818.0  | 816.8  |
| 127.5° | 877.4  | 881.3  | 882.6  | 881.3  | 878.7  |
| 130°   | 935.5  | 941.9  | 944.5  | 943.2  | 940.6  |
| 132.5° | 993.5  | 1005.1 | 1003.8 | 1002.6 | 998.7  |
| 135°   | 1055.5 | 1063.2 | 1064.5 | 1064.5 | 1059.3 |
| 137.5° | 1113.5 | 1121.3 | 1123.8 | 1125.1 | 1118.7 |
| 140°   | 1169.0 | 1175.5 | 1179.3 | 1181.9 | 1175.5 |
| 142.5° | 1224.5 | 1229.6 | 1234.8 | 1236.1 | 1229.6 |
| 145°   | 1278.7 | 1283.8 | 1287.7 | 1287.7 | 1283.8 |
| 147.5° | 1329.0 | 1332.9 | 1335.5 | 1339.3 | 1329.0 |
| 150°   | 1379.3 | 1378.0 | 1383.2 | 1383.2 | 1380.6 |
| 152.5° | 1420.6 | 1423.2 | 1424.5 | 1428.4 | 1423.2 |
| 155°   | 1463.2 | 1463.2 | 1464.5 | 1469.6 | 1463.2 |
| 157.5° | 1501.9 | 1499.3 | 1500.6 | 1505.8 | 1496.7 |
| 160°   | 1535.4 | 1531.6 | 1532.9 | 1538.0 | 1531.6 |
| 162.5° | 1565.1 | 1562.5 | 1562.5 | 1569.0 | 1561.3 |
| 165°   | 1590.9 | 1588.4 | 1589.6 | 1594.8 | 1587.1 |
| 167.5° | 1614.2 | 1609.0 | 1609.0 | 1616.7 | 1609.0 |
| 170°   | 1632.2 | 1627.1 | 1627.1 | 1634.8 | 1625.8 |
| 172.5° | 1645.1 | 1640.0 | 1640.0 | 1647.7 | 1640.0 |
| 175°   | 1654.2 | 1649.0 | 1649.0 | 1656.7 | 1647.7 |
| 177.5° | 1660.6 | 1655.4 | 1654.2 | 1661.9 | 1652.9 |
| 180°   | 1658.0 | 1658.0 | 1658.0 | 1658.0 | 1658.0 |

(END OF REPORT)