

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: P1035574

Luminaire Tested: S125DIW-B850D1340UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035574  
REPORT IS A COMBINATION OF REPORTS P1004151 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B850D1340UB35-4F0-XX-W2A-F1  
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

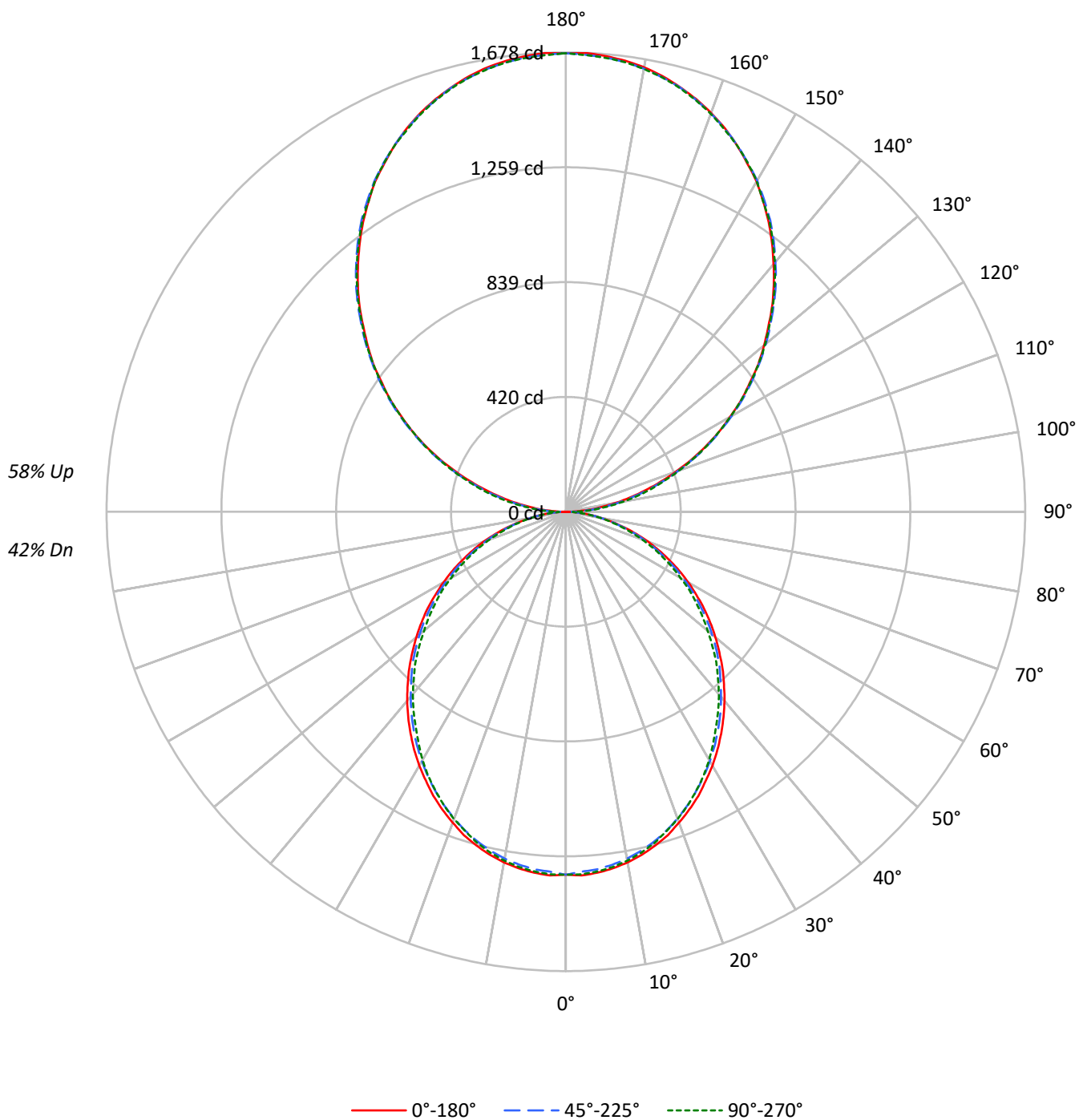
Lumens per Lamp: N/A  
Luminaire Lumens: 8127.0 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 78  
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   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 49 | 49 | 49 |
| 1   | 96  | 92  | 88  | 84  | 88 | 84 | 81 | 78 | 69 | 67 | 65 | 56 | 54 | 53 | 43 | 42 | 41 |
| 2   | 87  | 80  | 74  | 69  | 80 | 73 | 68 | 64 | 61 | 57 | 54 | 49 | 46 | 44 | 38 | 36 | 35 |
| 3   | 80  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 49 | 45 | 43 | 40 | 37 | 34 | 32 | 30 |
| 4   | 73  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 39 | 35 | 32 | 30 | 28 | 25 |
| 5   | 67  | 55  | 47  | 41  | 61 | 51 | 44 | 39 | 42 | 37 | 33 | 35 | 31 | 28 | 27 | 24 | 22 |
| 6   | 62  | 50  | 42  | 36  | 56 | 46 | 39 | 33 | 38 | 33 | 29 | 31 | 27 | 24 | 25 | 22 | 20 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 35 | 29 | 25 | 28 | 24 | 21 | 22 | 20 | 17 |
| 8   | 53  | 41  | 33  | 28  | 48 | 37 | 31 | 26 | 31 | 26 | 22 | 26 | 22 | 19 | 21 | 18 | 16 |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 27 | 21 | 18 | 22 | 18 | 15 | 18 | 15 | 13 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8493 | 8493 | 8493 |
| 5°  | 8493 | 8295 | 8311 |
| 10° | 8423 | 8105 | 8080 |
| 15° | 8313 | 7878 | 7807 |
| 20° | 8163 | 7614 | 7494 |
| 25° | 8002 | 7327 | 7160 |
| 30° | 7809 | 7027 | 6807 |
| 35° | 7602 | 6713 | 6412 |
| 40° | 7388 | 6380 | 6060 |
| 45° | 7157 | 6057 | 5687 |
| 50° | 6902 | 5690 | 5252 |
| 55° | 6650 | 5285 | 4852 |
| 60° | 6350 | 4858 | 4386 |
| 65° | 5990 | 4364 | 3905 |
| 70° | 5625 | 3796 | 3349 |
| 75° | 5011 | 3125 | 2708 |
| 80° | 4269 | 2334 | 1992 |
| 85° | 3299 | 1380 | 1098 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7157 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.1  | 1.5       |
| 10°-20°   | 353.3  | 4.3       |
| 20°-30°   | 521.6  | 6.4       |
| 30°-40°   | 608.6  | 7.5       |
| 40°-50°   | 611.2  | 7.5       |
| 50°-60°   | 536.5  | 6.6       |
| 60°-70°   | 399.6  | 4.9       |
| 70°-80°   | 228.2  | 2.8       |
| 80°-90°   | 68.5   | 0.8       |
| 90°-100°  | 111.4  | 1.4       |
| 100°-110° | 330.9  | 4.1       |
| 110°-120° | 561.1  | 6.9       |
| 120°-130° | 738.7  | 9.1       |
| 130°-140° | 827.8  | 10.2      |
| 140°-150° | 811.4  | 10.0      |
| 150°-160° | 681.5  | 8.4       |
| 160°-170° | 453.0  | 5.6       |
| 170°-180° | 158.5  | 2.0       |
| 0°-30°    | 1000.0 | 12.3      |
| 0°-40°    | 1608.5 | 19.8      |
| 0°-60°    | 2756.3 | 33.9      |
| 0°-90°    | 3452.6 | 42.5      |
| 90°-120°  | 1003.4 | 12.3      |
| 90°-150°  | 3381.3 | 41.6      |
| 90°-180°  | 4674.0 | 57.5      |
| 0°-180°   | 8127.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1326 | 1326  | 1326 | 1326  | 1326 |      |
| 5°   | 1323 | 1321  | 1311 | 1320  | 1319 | 126  |
| 15°  | 1262 | 1258  | 1247 | 1252  | 1252 | 356  |
| 25°  | 1145 | 1140  | 1126 | 1128  | 1125 | 527  |
| 35°  | 989  | 985   | 970  | 965   | 956  | 619  |
| 45°  | 810  | 805   | 793  | 780   | 777  | 624  |
| 55°  | 617  | 614   | 599  | 589   | 582  | 550  |
| 65°  | 416  | 414   | 403  | 393   | 389  | 413  |
| 75°  | 221  | 219   | 214  | 211   | 207  | 236  |
| 85°  | 58   | 59    | 59   | 58    | 56   | 63   |
| 90°  | 1    | 12    | 21   | 27    | 31   | 10   |
| 95°  | 85   | 87    | 100  | 110   | 112  | 89   |
| 105° | 297  | 304   | 312  | 319   | 323  | 317  |
| 115° | 562  | 567   | 570  | 568   | 567  | 556  |
| 125° | 820  | 828   | 829  | 826   | 825  | 735  |
| 135° | 1066 | 1074  | 1075 | 1075  | 1070 | 822  |
| 145° | 1292 | 1297  | 1301 | 1301  | 1297 | 808  |
| 155° | 1478 | 1478  | 1479 | 1485  | 1478 | 681  |
| 165° | 1607 | 1604  | 1606 | 1611  | 1603 | 453  |
| 175° | 1671 | 1666  | 1666 | 1674  | 1664 | 159  |
| 180° | 1675 | 1675  | 1675 | 1675  | 1675 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1325.5 | 1325.5 | 1325.5 | 1325.5 | 1325.5 |
| 2.5°   | 1329.7 | 1326.6 | 1316.1 | 1326.6 | 1325.5 |
| 5°     | 1323.4 | 1321.3 | 1310.8 | 1320.3 | 1319.2 |
| 7.5°   | 1314.0 | 1311.9 | 1300.4 | 1309.8 | 1308.7 |
| 10°    | 1300.4 | 1298.3 | 1286.7 | 1295.1 | 1294.1 |
| 12.5°  | 1283.6 | 1279.4 | 1268.9 | 1275.2 | 1275.2 |
| 15°    | 1261.6 | 1258.4 | 1246.9 | 1252.1 | 1252.1 |
| 17.5°  | 1238.5 | 1233.2 | 1221.7 | 1228.0 | 1222.7 |
| 20°    | 1208.1 | 1206.0 | 1192.3 | 1199.7 | 1194.4 |
| 22.5°  | 1177.7 | 1173.5 | 1160.9 | 1165.1 | 1161.9 |
| 25°    | 1145.1 | 1139.9 | 1126.3 | 1128.4 | 1125.2 |
| 27.5°  | 1107.4 | 1104.2 | 1090.6 | 1091.7 | 1088.5 |
| 30°    | 1070.7 | 1067.5 | 1051.8 | 1049.7 | 1046.6 |
| 32.5°  | 1030.8 | 1025.6 | 1012.0 | 1007.8 | 1001.5 |
| 35°    | 988.9  | 984.7  | 970.0  | 964.8  | 956.4  |
| 37.5°  | 945.9  | 940.7  | 927.0  | 919.7  | 914.4  |
| 40°    | 901.9  | 896.6  | 881.9  | 872.5  | 869.3  |
| 42.5°  | 854.7  | 850.5  | 835.8  | 827.4  | 822.2  |
| 45°    | 809.6  | 805.4  | 792.8  | 780.2  | 777.1  |
| 47.5°  | 760.3  | 761.3  | 745.6  | 733.0  | 725.7  |
| 50°    | 713.1  | 709.9  | 697.4  | 683.7  | 676.4  |
| 52.5°  | 664.9  | 662.8  | 649.1  | 637.6  | 629.2  |
| 55°    | 616.6  | 613.5  | 598.8  | 589.4  | 582.0  |
| 57.5°  | 565.2  | 564.2  | 551.6  | 539.0  | 535.9  |
| 60°    | 517.0  | 512.8  | 501.3  | 490.8  | 483.4  |
| 62.5°  | 466.7  | 463.5  | 454.1  | 442.5  | 437.3  |
| 65°    | 416.3  | 414.2  | 402.7  | 393.3  | 389.1  |
| 67.5°  | 367.0  | 362.8  | 354.5  | 346.1  | 344.0  |
| 70°    | 320.9  | 315.6  | 306.2  | 299.9  | 295.7  |
| 72.5°  | 270.6  | 267.4  | 262.2  | 254.8  | 250.6  |
| 75°    | 221.3  | 219.2  | 213.9  | 210.8  | 206.6  |
| 77.5°  | 175.1  | 174.1  | 170.9  | 168.8  | 165.7  |
| 80°    | 132.1  | 132.1  | 130.0  | 129.0  | 126.9  |
| 82.5°  | 94.4   | 92.3   | 92.3   | 90.2   | 90.2   |
| 85°    | 57.7   | 58.7   | 58.7   | 57.7   | 55.6   |
| 87.5°  | 28.3   | 28.3   | 27.3   | 27.3   | 25.2   |
| 90°    | 1.3    | 11.7   | 20.9   | 27.4   | 31.3   |
| 92.5°  | 39.1   | 45.6   | 57.3   | 66.5   | 69.1   |
| 95°    | 84.7   | 87.3   | 100.4  | 109.5  | 112.1  |
| 97.5°  | 130.3  | 131.6  | 149.9  | 157.7  | 159.0  |
| 100°   | 182.5  | 182.5  | 199.4  | 211.1  | 213.8  |
| 102.5° | 238.5  | 245.0  | 251.6  | 264.6  | 268.5  |
| 105°   | 297.2  | 303.7  | 311.5  | 319.3  | 323.2  |
| 107.5° | 361.0  | 367.6  | 374.1  | 378.0  | 378.0  |
| 110°   | 427.5  | 434.0  | 437.9  | 441.8  | 440.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 495.3  | 497.9  | 503.1  | 504.4  | 501.8  |
| 115°   | 561.8  | 567.0  | 569.6  | 568.3  | 567.0  |
| 117.5° | 629.5  | 630.8  | 633.4  | 634.8  | 629.5  |
| 120°   | 692.1  | 698.6  | 699.9  | 699.9  | 694.7  |
| 122.5° | 759.9  | 761.2  | 765.1  | 763.8  | 759.9  |
| 125°   | 819.8  | 827.7  | 829.0  | 826.4  | 825.0  |
| 127.5° | 886.3  | 890.2  | 891.5  | 890.2  | 887.6  |
| 130°   | 945.0  | 951.5  | 954.1  | 952.8  | 950.2  |
| 132.5° | 1003.6 | 1015.3 | 1014.0 | 1012.7 | 1008.8 |
| 135°   | 1066.2 | 1074.0 | 1075.3 | 1075.3 | 1070.1 |
| 137.5° | 1124.8 | 1132.6 | 1135.3 | 1136.6 | 1130.0 |
| 140°   | 1180.9 | 1187.4 | 1191.3 | 1193.9 | 1187.4 |
| 142.5° | 1236.9 | 1242.1 | 1247.3 | 1248.6 | 1242.1 |
| 145°   | 1291.7 | 1296.9 | 1300.8 | 1300.8 | 1296.9 |
| 147.5° | 1342.5 | 1346.4 | 1349.0 | 1352.9 | 1342.5 |
| 150°   | 1393.3 | 1392.0 | 1397.2 | 1397.2 | 1394.6 |
| 152.5° | 1435.0 | 1437.6 | 1438.9 | 1442.9 | 1437.6 |
| 155°   | 1478.0 | 1478.0 | 1479.3 | 1484.6 | 1478.0 |
| 157.5° | 1517.1 | 1514.5 | 1515.8 | 1521.1 | 1511.9 |
| 160°   | 1551.0 | 1547.1 | 1548.4 | 1553.6 | 1547.1 |
| 162.5° | 1581.0 | 1578.4 | 1578.4 | 1584.9 | 1577.1 |
| 165°   | 1607.1 | 1604.5 | 1605.8 | 1611.0 | 1603.2 |
| 167.5° | 1630.5 | 1625.3 | 1625.3 | 1633.1 | 1625.3 |
| 170°   | 1648.8 | 1643.6 | 1643.6 | 1651.4 | 1642.3 |
| 172.5° | 1661.8 | 1656.6 | 1656.6 | 1664.4 | 1656.6 |
| 175°   | 1670.9 | 1665.7 | 1665.7 | 1673.6 | 1664.4 |
| 177.5° | 1677.5 | 1672.3 | 1670.9 | 1678.8 | 1669.6 |
| 180°   | 1674.9 | 1674.9 | 1674.9 | 1674.9 | 1674.9 |

(END OF REPORT)