

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: P1034973

Luminaire Tested: S125DIW-B1090D1340UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1034973  
REPORT IS A COMBINATION OF REPORTS P1002791 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B1090D1340UB27-4F0-XX-W2A-F  
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

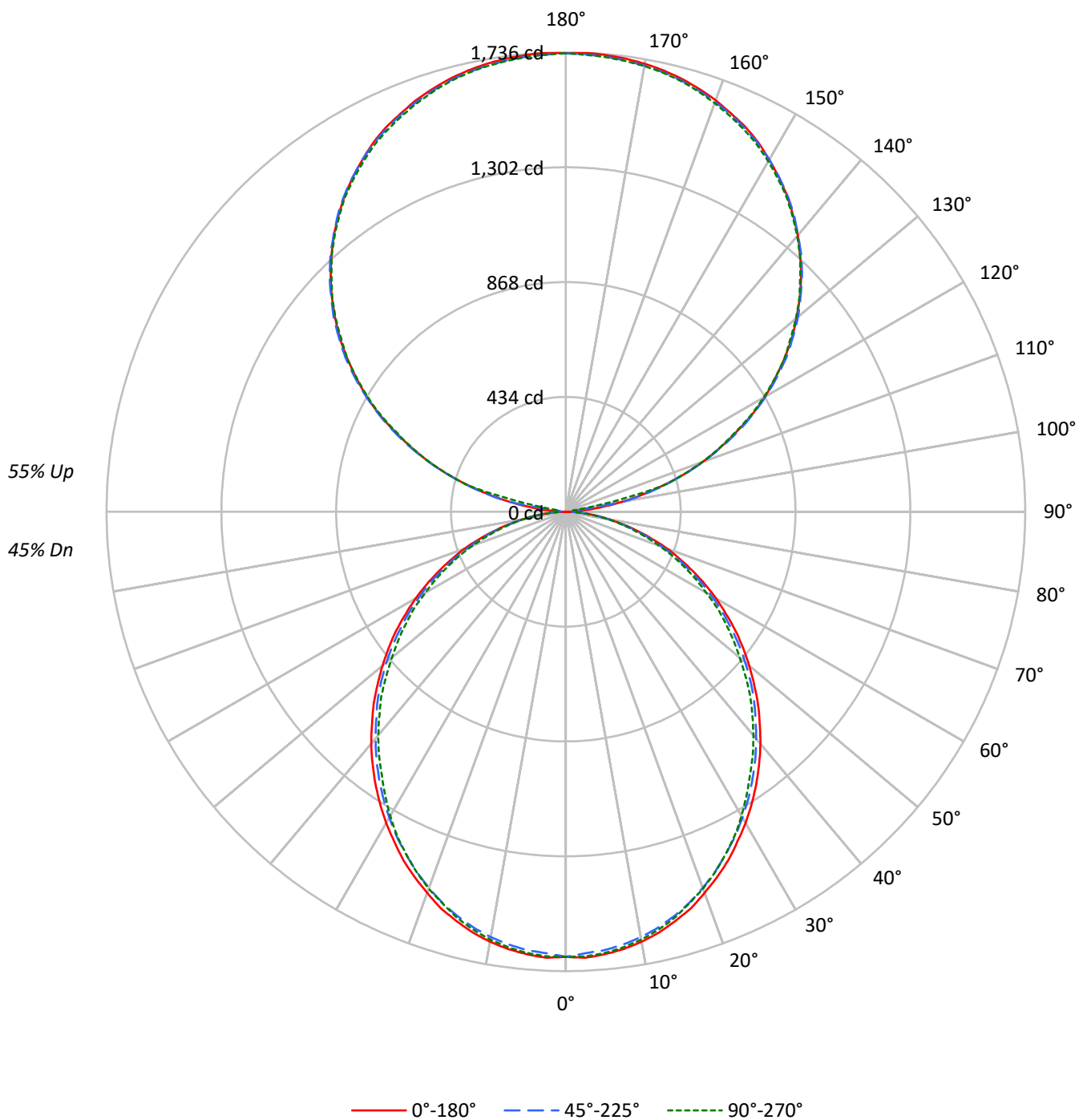
Lumens per Lamp: N/A  
Luminaire Lumens: 9701.0 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 88.9  
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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 |
| 1   | 97  | 92  | 88  | 85  | 88 | 85 | 81 | 78 | 71 | 68 | 66 | 58 | 56 | 54 | 46 | 44 | 44 |
| 2   | 88  | 81  | 74  | 69  | 80 | 74 | 69 | 64 | 62 | 58 | 55 | 51 | 48 | 45 | 40 | 38 | 37 |
| 3   | 80  | 71  | 63  | 58  | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 45 | 41 | 38 | 35 | 33 | 31 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 45 | 48 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 28 | 29 | 26 | 23 |
| 6   | 62  | 50  | 42  | 36  | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 21 |
| 7   | 57  | 45  | 37  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 21 | 18 |
| 8   | 53  | 41  | 33  | 28  | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 |
| 9   | 49  | 37  | 30  | 25  | 45 | 35 | 28 | 23 | 29 | 24 | 20 | 25 | 20 | 18 | 20 | 17 | 15 |
| 10  | 46  | 34  | 27  | 22  | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 19 | 16 | 13 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10775 | 10775 | 10775 |
| 5°  | 10775 | 10525 | 10545 |
| 10° | 10686 | 10284 | 10251 |
| 15° | 10546 | 9995  | 9905  |
| 20° | 10356 | 9660  | 9508  |
| 25° | 10152 | 9295  | 9084  |
| 30° | 9907  | 8915  | 8636  |
| 35° | 9644  | 8517  | 8135  |
| 40° | 9373  | 8095  | 7688  |
| 45° | 9080  | 7684  | 7215  |
| 50° | 8757  | 7218  | 6663  |
| 55° | 8437  | 6705  | 6155  |
| 60° | 8056  | 6164  | 5564  |
| 65° | 7600  | 5537  | 4954  |
| 70° | 7136  | 4816  | 4249  |
| 75° | 6356  | 3965  | 3436  |
| 80° | 5416  | 2962  | 2528  |
| 85° | 4185  | 1752  | 1393  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9080 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 158.7  | 1.6       |
| 10°-20°   | 448.2  | 4.6       |
| 20°-30°   | 661.7  | 6.8       |
| 30°-40°   | 772.1  | 8.0       |
| 40°-50°   | 775.4  | 8.0       |
| 50°-60°   | 680.7  | 7.0       |
| 60°-70°   | 507.0  | 5.2       |
| 70°-80°   | 289.6  | 3.0       |
| 80°-90°   | 86.2   | 0.9       |
| 90°-100°  | 58.8   | 0.6       |
| 100°-110° | 391.0  | 4.0       |
| 110°-120° | 704.1  | 7.3       |
| 120°-130° | 903.7  | 9.3       |
| 130°-140° | 972.0  | 10.0      |
| 140°-150° | 912.2  | 9.4       |
| 150°-160° | 737.9  | 7.6       |
| 160°-170° | 477.2  | 4.9       |
| 170°-180° | 164.6  | 1.7       |
| 0°-30°    | 1268.7 | 13.1      |
| 0°-40°    | 2040.7 | 21.0      |
| 0°-60°    | 3496.8 | 36.0      |
| 0°-90°    | 4379.6 | 45.1      |
| 90°-120°  | 1153.8 | 11.9      |
| 90°-150°  | 3941.7 | 40.6      |
| 90°-180°  | 5321.0 | 54.9      |
| 0°-180°   | 9701.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1682 | 1682  | 1682 | 1682  | 1682 |      |
| 5°   | 1679 | 1676  | 1663 | 1675  | 1674 | 159  |
| 15°  | 1600 | 1596  | 1582 | 1588  | 1588 | 451  |
| 25°  | 1453 | 1446  | 1429 | 1432  | 1428 | 668  |
| 35°  | 1255 | 1249  | 1231 | 1224  | 1213 | 785  |
| 45°  | 1027 | 1022  | 1006 | 990   | 986  | 791  |
| 55°  | 782  | 778   | 760  | 748   | 738  | 698  |
| 65°  | 528  | 526   | 511  | 499   | 494  | 524  |
| 75°  | 281  | 278   | 271  | 267   | 262  | 299  |
| 85°  | 73   | 74    | 74   | 73    | 70   | 80   |
| 90°  | 1    | 12    | 20   | 27    | 31   | 9    |
| 95°  | 73   | 69    | 20   | 27    | 27   | 90   |
| 105° | 378  | 383   | 383  | 383   | 381  | 400  |
| 115° | 709  | 715   | 717  | 711   | 704  | 703  |
| 125° | 1008 | 1017  | 1017 | 1012  | 1008 | 900  |
| 135° | 1257 | 1265  | 1262 | 1260  | 1252 | 969  |
| 145° | 1458 | 1460  | 1460 | 1461  | 1454 | 912  |
| 155° | 1605 | 1598  | 1600 | 1604  | 1594 | 740  |
| 165° | 1694 | 1686  | 1687 | 1695  | 1685 | 478  |
| 175° | 1732 | 1725  | 1726 | 1736  | 1725 | 165  |
| 180° | 1732 | 1732  | 1732 | 1732  | 1732 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1681.7 | 1681.7 | 1681.7 | 1681.7 | 1681.7 |
| 2.5°   | 1687.0 | 1683.0 | 1669.7 | 1683.0 | 1681.7 |
| 5°     | 1679.0 | 1676.4 | 1663.1 | 1675.0 | 1673.7 |
| 7.5°   | 1667.0 | 1664.4 | 1649.7 | 1661.7 | 1660.4 |
| 10°    | 1649.7 | 1647.1 | 1632.5 | 1643.1 | 1641.8 |
| 12.5°  | 1628.5 | 1623.1 | 1609.8 | 1617.8 | 1617.8 |
| 15°    | 1600.5 | 1596.5 | 1581.9 | 1588.5 | 1588.5 |
| 17.5°  | 1571.3 | 1564.6 | 1550.0 | 1557.9 | 1551.3 |
| 20°    | 1532.7 | 1530.0 | 1512.7 | 1522.0 | 1515.4 |
| 22.5°  | 1494.1 | 1488.8 | 1472.8 | 1478.1 | 1474.1 |
| 25°    | 1452.8 | 1446.2 | 1428.9 | 1431.6 | 1427.6 |
| 27.5°  | 1404.9 | 1401.0 | 1383.7 | 1385.0 | 1381.0 |
| 30°    | 1358.4 | 1354.4 | 1334.4 | 1331.8 | 1327.8 |
| 32.5°  | 1307.8 | 1301.2 | 1283.9 | 1278.6 | 1270.6 |
| 35°    | 1254.6 | 1249.3 | 1230.7 | 1224.0 | 1213.4 |
| 37.5°  | 1200.1 | 1193.4 | 1176.1 | 1166.8 | 1160.1 |
| 40°    | 1144.2 | 1137.5 | 1118.9 | 1106.9 | 1102.9 |
| 42.5°  | 1084.3 | 1079.0 | 1060.4 | 1049.7 | 1043.1 |
| 45°    | 1027.1 | 1021.8 | 1005.8 | 989.8  | 985.9  |
| 47.5°  | 964.6  | 965.9  | 945.9  | 930.0  | 920.7  |
| 50°    | 904.7  | 900.7  | 884.7  | 867.4  | 858.1  |
| 52.5°  | 843.5  | 840.8  | 823.5  | 808.9  | 798.3  |
| 55°    | 782.3  | 778.3  | 759.7  | 747.7  | 738.4  |
| 57.5°  | 717.1  | 715.8  | 699.8  | 683.8  | 679.9  |
| 60°    | 655.9  | 650.6  | 636.0  | 622.6  | 613.3  |
| 62.5°  | 592.0  | 588.1  | 576.1  | 561.4  | 554.8  |
| 65°    | 528.2  | 525.5  | 510.9  | 498.9  | 493.6  |
| 67.5°  | 465.7  | 460.3  | 449.7  | 439.0  | 436.4  |
| 70°    | 407.1  | 400.5  | 388.5  | 380.5  | 375.2  |
| 72.5°  | 343.3  | 339.3  | 332.6  | 323.3  | 318.0  |
| 75°    | 280.7  | 278.1  | 271.4  | 267.4  | 262.1  |
| 77.5°  | 222.2  | 220.9  | 216.9  | 214.2  | 210.2  |
| 80°    | 167.6  | 167.6  | 165.0  | 163.6  | 161.0  |
| 82.5°  | 119.7  | 117.1  | 117.1  | 114.4  | 114.4  |
| 85°    | 73.2   | 74.5   | 74.5   | 73.2   | 70.5   |
| 87.5°  | 35.9   | 35.9   | 34.6   | 34.6   | 31.9   |
| 90°    | 1.3    | 11.6   | 20.5   | 27.0   | 30.8   |
| 92.5°  | 24.4   | 12.8   | 20.5   | 27.0   | 28.3   |
| 95°    | 73.2   | 69.3   | 20.5   | 27.0   | 27.0   |
| 97.5°  | 137.4  | 145.1  | 23.1   | 25.7   | 27.0   |
| 100°   | 214.5  | 218.3  | 223.4  | 32.1   | 27.0   |
| 102.5° | 292.8  | 297.9  | 300.5  | 303.1  | 195.2  |
| 105°   | 377.5  | 382.7  | 382.7  | 382.7  | 381.4  |
| 107.5° | 464.9  | 464.9  | 467.4  | 468.7  | 463.6  |
| 110°   | 549.6  | 549.6  | 552.2  | 548.3  | 549.6  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 629.2  | 633.1  | 634.4  | 629.2  | 626.7  |
| 115°   | 708.9  | 715.3  | 716.6  | 711.4  | 703.7  |
| 117.5° | 792.3  | 792.3  | 797.5  | 789.8  | 787.2  |
| 120°   | 869.4  | 868.1  | 872.0  | 869.4  | 863.0  |
| 122.5° | 937.4  | 943.9  | 945.2  | 942.6  | 934.9  |
| 125°   | 1008.1 | 1017.1 | 1017.1 | 1011.9 | 1008.1 |
| 127.5° | 1076.1 | 1082.6 | 1081.3 | 1078.7 | 1068.4 |
| 130°   | 1137.8 | 1144.2 | 1145.5 | 1141.6 | 1135.2 |
| 132.5° | 1199.4 | 1207.1 | 1203.3 | 1203.3 | 1196.9 |
| 135°   | 1257.2 | 1264.9 | 1262.3 | 1259.8 | 1252.1 |
| 137.5° | 1311.1 | 1318.9 | 1316.3 | 1316.3 | 1309.9 |
| 140°   | 1363.8 | 1366.4 | 1365.1 | 1367.6 | 1359.9 |
| 142.5° | 1411.3 | 1412.6 | 1415.2 | 1415.2 | 1407.5 |
| 145°   | 1457.5 | 1460.1 | 1460.1 | 1461.4 | 1453.7 |
| 147.5° | 1498.6 | 1498.6 | 1499.9 | 1501.2 | 1492.2 |
| 150°   | 1537.2 | 1534.6 | 1537.2 | 1539.7 | 1529.5 |
| 152.5° | 1574.4 | 1568.0 | 1570.5 | 1573.1 | 1564.1 |
| 155°   | 1605.2 | 1597.5 | 1600.1 | 1603.9 | 1593.7 |
| 157.5° | 1629.6 | 1625.8 | 1625.8 | 1629.6 | 1619.3 |
| 160°   | 1655.3 | 1647.6 | 1648.9 | 1654.0 | 1643.7 |
| 162.5° | 1675.9 | 1668.1 | 1669.4 | 1677.1 | 1665.6 |
| 165°   | 1693.8 | 1686.1 | 1687.4 | 1695.1 | 1684.8 |
| 167.5° | 1708.0 | 1700.3 | 1701.5 | 1710.5 | 1699.0 |
| 170°   | 1719.5 | 1710.5 | 1711.8 | 1722.1 | 1710.5 |
| 172.5° | 1727.2 | 1718.2 | 1720.8 | 1729.8 | 1718.2 |
| 175°   | 1732.4 | 1724.7 | 1725.9 | 1736.2 | 1724.7 |
| 177.5° | 1736.2 | 1728.5 | 1729.8 | 1738.8 | 1728.5 |
| 180°   | 1732.4 | 1732.4 | 1732.4 | 1732.4 | 1732.4 |

(END OF REPORT)