

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: P1035188

Luminaire Tested: S125DIW-B1270D470UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035188  
REPORT IS A COMBINATION OF REPORTS P1003290 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B1270D470UB35-4F0-XX-W2A-D1  
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

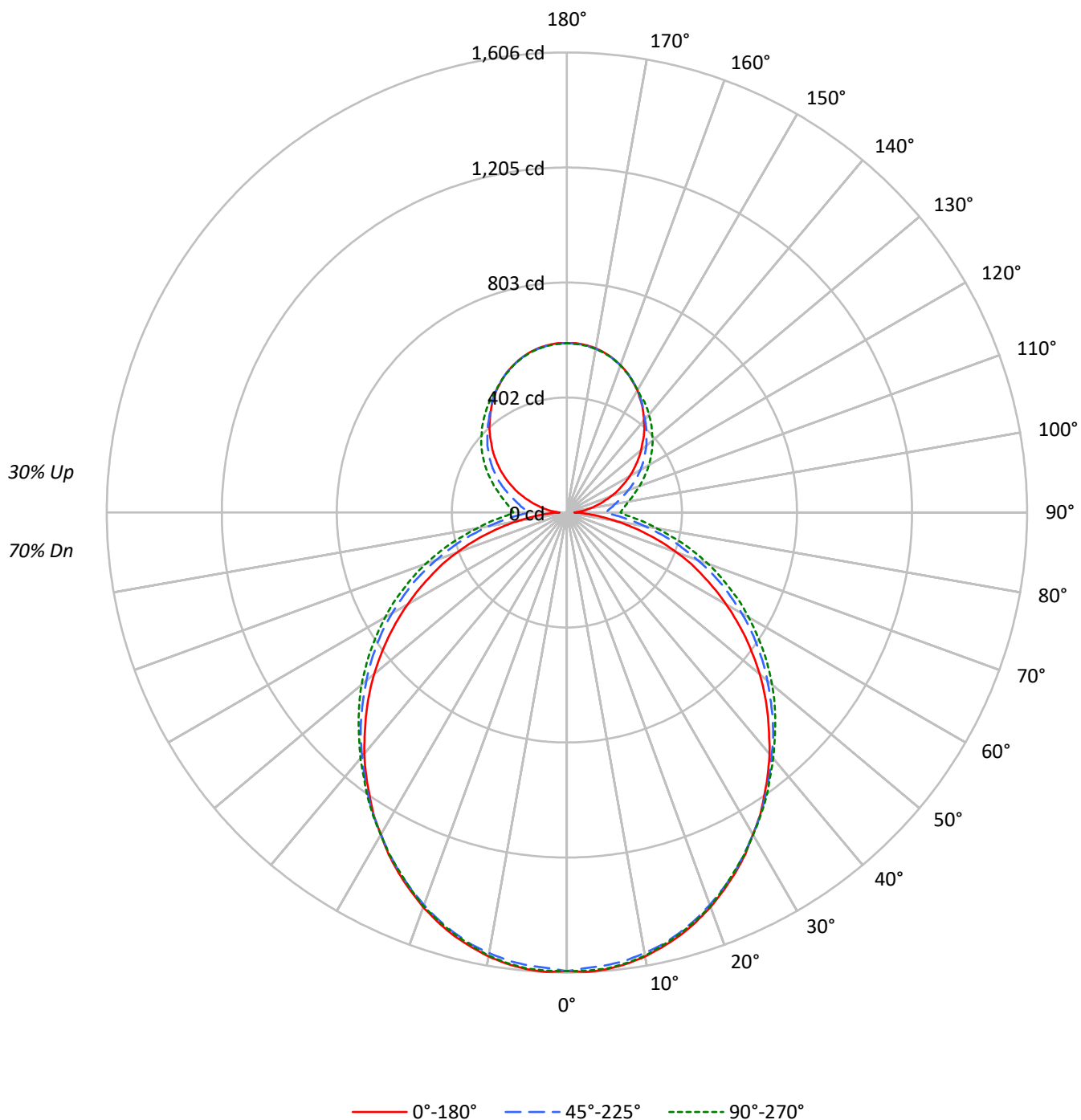
Lumens per Lamp: N/A  
Luminaire Lumens: 6610.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 74.5  
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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 84 | 84 | 84 | 75 | 75 | 75 |
| 1   | 101 | 96  | 92  | 88  | 96  | 91  | 87  | 84  | 82 | 79 | 76 | 73 | 70 | 68 | 65 | 63 | 61 |
| 2   | 92  | 84  | 77  | 71  | 87  | 79  | 73  | 68  | 71 | 66 | 62 | 63 | 60 | 56 | 56 | 53 | 51 |
| 3   | 84  | 73  | 65  | 59  | 79  | 69  | 62  | 56  | 62 | 56 | 52 | 56 | 51 | 47 | 50 | 46 | 43 |
| 4   | 76  | 65  | 56  | 50  | 72  | 61  | 54  | 48  | 55 | 49 | 44 | 49 | 44 | 40 | 44 | 40 | 37 |
| 5   | 70  | 58  | 49  | 42  | 66  | 55  | 47  | 41  | 49 | 43 | 38 | 44 | 39 | 35 | 40 | 35 | 32 |
| 6   | 65  | 52  | 43  | 37  | 61  | 49  | 41  | 36  | 44 | 38 | 33 | 40 | 35 | 30 | 36 | 31 | 28 |
| 7   | 60  | 47  | 38  | 32  | 56  | 45  | 37  | 31  | 40 | 34 | 29 | 36 | 31 | 27 | 33 | 28 | 25 |
| 8   | 56  | 43  | 34  | 29  | 52  | 41  | 33  | 28  | 37 | 30 | 26 | 33 | 28 | 24 | 30 | 26 | 22 |
| 9   | 52  | 39  | 31  | 26  | 49  | 37  | 30  | 25  | 34 | 28 | 23 | 31 | 25 | 22 | 28 | 23 | 20 |
| 10  | 48  | 36  | 28  | 23  | 46  | 34  | 27  | 22  | 31 | 25 | 21 | 28 | 23 | 20 | 26 | 21 | 18 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10256 | 10256 | 10256 |
| 5°  | 10273 | 10042 | 10066 |
| 10° | 10196 | 9837  | 9809  |
| 15° | 10072 | 9599  | 9492  |
| 20° | 9904  | 9311  | 9178  |
| 25° | 9706  | 9004  | 8798  |
| 30° | 9466  | 8671  | 8452  |
| 35° | 9241  | 8362  | 8133  |
| 40° | 9013  | 8038  | 7812  |
| 45° | 8754  | 7757  | 7523  |
| 50° | 8507  | 7452  | 7263  |
| 55° | 8210  | 7161  | 6960  |
| 60° | 7884  | 6830  | 6649  |
| 65° | 7543  | 6479  | 6301  |
| 70° | 7152  | 6011  | 5936  |
| 75° | 6539  | 5549  | 5492  |
| 80° | 5729  | 4988  | 5002  |
| 85° | 4934  | 4538  | 4743  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 8754 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 151.5  | 2.3       |
| 10°-20°   | 430.0  | 6.5       |
| 20°-30°   | 639.5  | 9.7       |
| 30°-40°   | 757.3  | 11.5      |
| 40°-50°   | 782.9  | 11.8      |
| 50°-60°   | 721.2  | 10.9      |
| 60°-70°   | 583.0  | 8.8       |
| 70°-80°   | 390.1  | 5.9       |
| 80°-90°   | 202.6  | 3.1       |
| 90°-100°  | 152.9  | 2.3       |
| 100°-110° | 200.5  | 3.0       |
| 110°-120° | 254.1  | 3.8       |
| 120°-130° | 292.5  | 4.4       |
| 130°-140° | 306.1  | 4.6       |
| 140°-150° | 289.2  | 4.4       |
| 150°-160° | 240.6  | 3.6       |
| 160°-170° | 159.9  | 2.4       |
| 170°-180° | 56.0   | 0.8       |
| 0°-30°    | 1221.0 | 18.5      |
| 0°-40°    | 1978.3 | 29.9      |
| 0°-60°    | 3482.4 | 52.7      |
| 0°-90°    | 4658.2 | 70.5      |
| 90°-120°  | 607.5  | 9.2       |
| 90°-150°  | 1495.3 | 22.6      |
| 90°-180°  | 1952.0 | 29.5      |
| 0°-180°   | 6610.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1601 | 1601  | 1601 | 1601  | 1601 |      |
| 5°   | 1601 | 1598  | 1587 | 1599  | 1598 | 152  |
| 15°  | 1529 | 1530  | 1519 | 1529  | 1522 | 431  |
| 25°  | 1389 | 1394  | 1384 | 1390  | 1383 | 639  |
| 35°  | 1202 | 1213  | 1208 | 1213  | 1213 | 753  |
| 45°  | 990  | 1008  | 1015 | 1026  | 1028 | 764  |
| 55°  | 761  | 786   | 811  | 829   | 835  | 680  |
| 65°  | 524  | 560   | 598  | 622   | 628  | 520  |
| 75°  | 289  | 330   | 380  | 411   | 419  | 306  |
| 85°  | 86   | 138   | 193  | 228   | 240  | 90   |
| 90°  | 26   | 79    | 136  | 174   | 187  | 19   |
| 95°  | 50   | 92    | 150  | 188   | 200  | 47   |
| 105° | 119  | 146   | 196  | 230   | 243  | 127  |
| 115° | 208  | 220   | 262  | 290   | 299  | 206  |
| 125° | 296  | 297   | 329  | 353   | 360  | 265  |
| 135° | 380  | 381   | 392  | 413   | 418  | 293  |
| 145° | 458  | 458   | 459  | 467   | 472  | 286  |
| 155° | 522  | 522   | 522  | 524   | 522  | 240  |
| 165° | 567  | 566   | 567  | 569   | 566  | 160  |
| 175° | 590  | 588   | 588  | 591   | 588  | 56   |
| 180° | 591  | 591   | 591  | 591   | 591  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1600.8 | 1600.8 | 1600.8 | 1600.8 | 1600.8 |
| 2.5°   | 1605.5 | 1602.4 | 1591.4 | 1602.4 | 1600.8 |
| 5°     | 1600.8 | 1597.7 | 1586.7 | 1599.2 | 1597.7 |
| 7.5°   | 1589.8 | 1588.2 | 1577.3 | 1588.2 | 1586.7 |
| 10°    | 1574.1 | 1574.1 | 1561.6 | 1572.6 | 1571.0 |
| 12.5°  | 1552.1 | 1553.7 | 1544.3 | 1552.1 | 1547.4 |
| 15°    | 1528.6 | 1530.2 | 1519.2 | 1528.6 | 1522.3 |
| 17.5°  | 1498.8 | 1501.9 | 1490.9 | 1498.8 | 1494.1 |
| 20°    | 1465.8 | 1469.0 | 1458.0 | 1462.7 | 1462.7 |
| 22.5°  | 1428.2 | 1434.4 | 1421.9 | 1428.2 | 1423.5 |
| 25°    | 1388.9 | 1393.6 | 1384.2 | 1390.5 | 1382.7 |
| 27.5°  | 1346.6 | 1352.8 | 1341.8 | 1346.6 | 1343.4 |
| 30°    | 1297.9 | 1307.3 | 1297.9 | 1301.0 | 1299.5 |
| 32.5°  | 1254.0 | 1261.8 | 1255.5 | 1258.7 | 1257.1 |
| 35°    | 1202.2 | 1213.2 | 1208.4 | 1213.2 | 1213.2 |
| 37.5°  | 1151.9 | 1161.4 | 1159.8 | 1166.1 | 1164.5 |
| 40°    | 1100.2 | 1112.7 | 1111.1 | 1117.4 | 1120.6 |
| 42.5°  | 1043.7 | 1060.9 | 1065.6 | 1073.5 | 1073.5 |
| 45°    | 990.3  | 1007.6 | 1015.4 | 1026.4 | 1028.0 |
| 47.5°  | 935.4  | 951.1  | 963.6  | 979.3  | 982.5  |
| 50°    | 878.9  | 896.1  | 913.4  | 930.7  | 935.4  |
| 52.5°  | 819.2  | 841.2  | 863.2  | 882.0  | 885.1  |
| 55°    | 761.2  | 786.3  | 811.4  | 828.6  | 834.9  |
| 57.5°  | 701.5  | 731.3  | 759.6  | 778.4  | 783.1  |
| 60°    | 641.9  | 673.3  | 704.7  | 728.2  | 732.9  |
| 62.5°  | 583.8  | 615.2  | 649.7  | 676.4  | 682.7  |
| 65°    | 524.2  | 560.3  | 597.9  | 621.5  | 627.8  |
| 67.5°  | 469.3  | 503.8  | 541.4  | 569.7  | 577.5  |
| 70°    | 408.0  | 444.1  | 484.9  | 514.8  | 524.2  |
| 72.5°  | 348.4  | 386.1  | 431.6  | 464.5  | 470.8  |
| 75°    | 288.8  | 329.6  | 379.8  | 411.2  | 419.0  |
| 77.5°  | 230.7  | 277.8  | 324.9  | 359.4  | 365.7  |
| 80°    | 177.3  | 224.4  | 277.8  | 312.3  | 318.6  |
| 82.5°  | 128.7  | 178.9  | 233.8  | 266.8  | 279.4  |
| 85°    | 86.3   | 138.1  | 193.0  | 227.6  | 240.1  |
| 87.5°  | 54.9   | 105.2  | 158.5  | 194.6  | 205.6  |
| 90°    | 25.6   | 79.4   | 136.1  | 174.5  | 186.8  |
| 92.5°  | 35.8   | 83.6   | 142.6  | 180.4  | 192.3  |
| 95°    | 50.3   | 92.0   | 150.0  | 187.7  | 199.7  |
| 97.5°  | 64.8   | 103.0  | 161.2  | 196.9  | 208.3  |
| 100°   | 81.7   | 114.6  | 170.8  | 207.9  | 218.3  |
| 102.5° | 99.9   | 132.0  | 183.0  | 219.0  | 229.8  |
| 105°   | 119.0  | 146.4  | 196.3  | 230.4  | 242.8  |
| 107.5° | 140.0  | 164.2  | 212.0  | 244.8  | 254.2  |
| 110°   | 161.9  | 183.0  | 228.4  | 259.6  | 270.1  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 185.8 | 200.9 | 245.1 | 273.8 | 283.8 |
| 115°   | 207.7 | 220.5 | 262.3 | 290.1 | 299.0 |
| 117.5° | 230.0 | 238.4 | 278.5 | 305.7 | 314.8 |
| 120°   | 252.1 | 259.2 | 295.8 | 322.4 | 329.9 |
| 122.5° | 274.5 | 276.5 | 312.5 | 337.1 | 345.1 |
| 125°   | 295.7 | 296.9 | 328.7 | 352.9 | 360.3 |
| 127.5° | 317.6 | 317.3 | 344.5 | 367.6 | 376.1 |
| 130°   | 338.3 | 339.0 | 361.9 | 383.4 | 390.3 |
| 132.5° | 357.4 | 361.5 | 376.8 | 398.3 | 403.2 |
| 135°   | 379.5 | 380.7 | 392.2 | 412.6 | 418.5 |
| 137.5° | 400.2 | 401.4 | 408.5 | 427.9 | 431.9 |
| 140°   | 418.5 | 420.8 | 423.6 | 441.9 | 445.9 |
| 142.5° | 438.2 | 438.5 | 440.3 | 454.9 | 458.9 |
| 145°   | 457.6 | 457.8 | 459.2 | 467.0 | 471.9 |
| 147.5° | 473.9 | 475.3 | 476.2 | 480.7 | 480.2 |
| 150°   | 491.8 | 491.4 | 493.2 | 493.2 | 493.9 |
| 152.5° | 506.6 | 507.5 | 508.0 | 509.3 | 507.5 |
| 155°   | 521.8 | 521.8 | 522.2 | 524.1 | 521.8 |
| 157.5° | 535.6 | 534.6 | 535.1 | 536.9 | 533.7 |
| 160°   | 547.5 | 546.1 | 546.6 | 548.4 | 546.1 |
| 162.5° | 558.1 | 557.2 | 557.2 | 559.5 | 556.7 |
| 165°   | 567.3 | 566.4 | 566.8 | 568.7 | 565.9 |
| 167.5° | 575.6 | 573.7 | 573.7 | 576.5 | 573.7 |
| 170°   | 582.0 | 580.2 | 580.2 | 582.9 | 579.7 |
| 172.5° | 586.6 | 584.8 | 584.8 | 587.6 | 584.8 |
| 175°   | 589.9 | 588.0 | 588.0 | 590.8 | 587.6 |
| 177.5° | 592.2 | 590.3 | 589.9 | 592.6 | 589.4 |
| 180°   | 591.2 | 591.2 | 591.2 | 591.2 | 591.2 |

(END OF REPORT)