

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: P1027464

Luminaire Tested: S125DIP-B1090D610UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027464  
REPORT IS A COMBINATION OF REPORTS P1001439 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1090D610UB35-4F0-XX-W2A-F1  
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

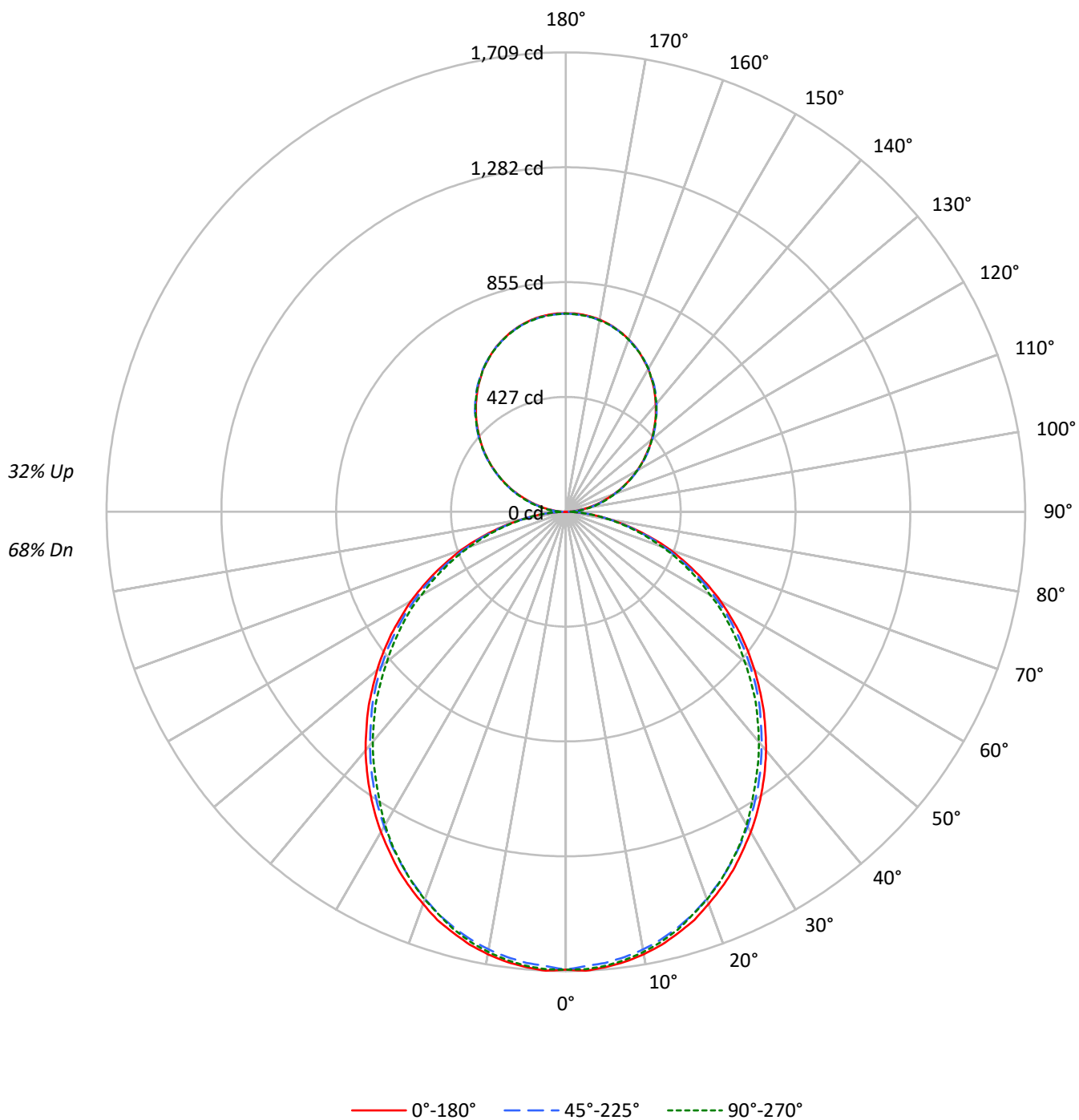
Lumens per Lamp: N/A  
Luminaire Lumens: 6494.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 62.2  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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   | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 83 | 83 | 83 | 73 | 73 | 73 |
| 1   | 102 | 97  | 93  | 90  | 96  | 92  | 88  | 85  | 82 | 79 | 77 | 73 | 71 | 69 | 64 | 63 | 61 |
| 2   | 93  | 85  | 79  | 73  | 87  | 80  | 75  | 70  | 72 | 67 | 64 | 64 | 61 | 58 | 57 | 54 | 52 |
| 3   | 85  | 75  | 67  | 61  | 79  | 71  | 64  | 58  | 63 | 58 | 53 | 57 | 52 | 49 | 50 | 47 | 44 |
| 4   | 77  | 66  | 58  | 52  | 73  | 63  | 55  | 50  | 56 | 50 | 46 | 50 | 46 | 42 | 45 | 41 | 38 |
| 5   | 71  | 59  | 51  | 44  | 67  | 56  | 48  | 43  | 50 | 44 | 39 | 45 | 40 | 36 | 40 | 36 | 33 |
| 6   | 66  | 53  | 45  | 39  | 62  | 51  | 43  | 37  | 46 | 39 | 34 | 41 | 36 | 32 | 37 | 32 | 29 |
| 7   | 61  | 48  | 40  | 34  | 57  | 46  | 38  | 33  | 41 | 35 | 30 | 37 | 32 | 28 | 33 | 29 | 26 |
| 8   | 56  | 44  | 36  | 30  | 53  | 42  | 34  | 29  | 38 | 32 | 27 | 34 | 29 | 25 | 31 | 26 | 23 |
| 9   | 53  | 40  | 32  | 27  | 50  | 38  | 31  | 26  | 35 | 29 | 24 | 32 | 26 | 23 | 28 | 24 | 21 |
| 10  | 49  | 37  | 29  | 24  | 47  | 35  | 28  | 24  | 32 | 26 | 22 | 29 | 24 | 21 | 26 | 22 | 19 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10915 | 10915 | 10915 |
| 5°  | 10916 | 10662 | 10682 |
| 10° | 10825 | 10417 | 10384 |
| 15° | 10683 | 10125 | 10034 |
| 20° | 10491 | 9786  | 9632  |
| 25° | 10285 | 9416  | 9202  |
| 30° | 10036 | 9031  | 8749  |
| 35° | 9769  | 8627  | 8241  |
| 40° | 9495  | 8200  | 7789  |
| 45° | 9198  | 7784  | 7309  |
| 50° | 8871  | 7313  | 6750  |
| 55° | 8547  | 6792  | 6235  |
| 60° | 8162  | 6243  | 5637  |
| 65° | 7700  | 5608  | 5018  |
| 70° | 7229  | 4878  | 4305  |
| 75° | 6440  | 4017  | 3480  |
| 80° | 5487  | 3000  | 2560  |
| 85° | 4237  | 1775  | 1410  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9198 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.8  | 2.5       |
| 10°-20°   | 454.1  | 7.0       |
| 20°-30°   | 670.4  | 10.3      |
| 30°-40°   | 782.1  | 12.0      |
| 40°-50°   | 785.5  | 12.1      |
| 50°-60°   | 689.5  | 10.6      |
| 60°-70°   | 513.6  | 7.9       |
| 70°-80°   | 293.3  | 4.5       |
| 80°-90°   | 85.8   | 1.3       |
| 90°-100°  | 49.1   | 0.8       |
| 100°-110° | 145.7  | 2.2       |
| 110°-120° | 247.2  | 3.8       |
| 120°-130° | 325.4  | 5.0       |
| 130°-140° | 364.6  | 5.6       |
| 140°-150° | 357.4  | 5.5       |
| 150°-160° | 300.2  | 4.6       |
| 160°-170° | 199.5  | 3.1       |
| 170°-180° | 69.8   | 1.1       |
| 0°-30°    | 1285.2 | 19.8      |
| 0°-40°    | 2067.3 | 31.8      |
| 0°-60°    | 3542.4 | 54.5      |
| 0°-90°    | 4435.1 | 68.3      |
| 90°-120°  | 442.0  | 6.8       |
| 90°-150°  | 1489.3 | 22.9      |
| 90°-180°  | 2059.0 | 31.7      |
| 0°-180°   | 6494.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1704 | 1704  | 1704 | 1704  | 1704 |      |
| 5°   | 1701 | 1698  | 1685 | 1697  | 1696 | 161  |
| 15°  | 1621 | 1617  | 1602 | 1609  | 1609 | 457  |
| 25°  | 1472 | 1465  | 1448 | 1450  | 1446 | 677  |
| 35°  | 1271 | 1266  | 1247 | 1240  | 1229 | 795  |
| 45°  | 1040 | 1035  | 1019 | 1003  | 999  | 802  |
| 55°  | 792  | 788   | 770  | 757   | 748  | 707  |
| 65°  | 535  | 532   | 518  | 505   | 500  | 531  |
| 75°  | 284  | 282   | 275  | 271   | 266  | 303  |
| 85°  | 74   | 76    | 76   | 74    | 71   | 81   |
| 90°  | 1    | 5     | 9    | 12    | 14   | 8    |
| 95°  | 37   | 38    | 44   | 48    | 49   | 39   |
| 105° | 131  | 134   | 137  | 141   | 142  | 140  |
| 115° | 247  | 250   | 251  | 250   | 250  | 245  |
| 125° | 361  | 364   | 365  | 364   | 363  | 324  |
| 135° | 470  | 473   | 474  | 474   | 471  | 362  |
| 145° | 569  | 571   | 573  | 573   | 571  | 356  |
| 155° | 651  | 651   | 652  | 654   | 651  | 300  |
| 165° | 708  | 707   | 707  | 710   | 706  | 200  |
| 175° | 736  | 734   | 734  | 737   | 733  | 70   |
| 180° | 738  | 738   | 738  | 738   | 738  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1703.6 | 1703.6 | 1703.6 | 1703.6 | 1703.6 |
| 2.5°   | 1709.0 | 1704.9 | 1691.5 | 1704.9 | 1703.6 |
| 5°     | 1700.9 | 1698.2 | 1684.7 | 1696.8 | 1695.5 |
| 7.5°   | 1688.8 | 1686.1 | 1671.2 | 1683.4 | 1682.0 |
| 10°    | 1671.2 | 1668.5 | 1653.7 | 1664.5 | 1663.1 |
| 12.5°  | 1649.7 | 1644.3 | 1630.8 | 1638.9 | 1638.9 |
| 15°    | 1621.4 | 1617.3 | 1602.5 | 1609.2 | 1609.2 |
| 17.5°  | 1591.7 | 1585.0 | 1570.2 | 1578.2 | 1571.5 |
| 20°    | 1552.6 | 1549.9 | 1532.4 | 1541.8 | 1535.1 |
| 22.5°  | 1513.5 | 1508.2 | 1492.0 | 1497.4 | 1493.3 |
| 25°    | 1471.8 | 1465.0 | 1447.5 | 1450.2 | 1446.2 |
| 27.5°  | 1423.2 | 1419.2 | 1401.7 | 1403.0 | 1399.0 |
| 30°    | 1376.1 | 1372.0 | 1351.8 | 1349.1 | 1345.1 |
| 32.5°  | 1324.9 | 1318.1 | 1300.6 | 1295.2 | 1287.1 |
| 35°    | 1270.9 | 1265.6 | 1246.7 | 1239.9 | 1229.2 |
| 37.5°  | 1215.7 | 1208.9 | 1191.4 | 1182.0 | 1175.3 |
| 40°    | 1159.1 | 1152.3 | 1133.5 | 1121.3 | 1117.3 |
| 42.5°  | 1098.4 | 1093.0 | 1074.2 | 1063.4 | 1056.7 |
| 45°    | 1040.5 | 1035.1 | 1018.9 | 1002.7 | 998.7  |
| 47.5°  | 977.1  | 978.5  | 958.3  | 942.1  | 932.7  |
| 50°    | 916.5  | 912.4  | 896.3  | 878.7  | 869.3  |
| 52.5°  | 854.5  | 851.8  | 834.3  | 819.4  | 808.7  |
| 55°    | 792.5  | 788.4  | 769.6  | 757.4  | 748.0  |
| 57.5°  | 726.4  | 725.1  | 708.9  | 692.8  | 688.7  |
| 60°    | 664.5  | 659.1  | 644.2  | 630.8  | 621.3  |
| 62.5°  | 599.8  | 595.7  | 583.6  | 568.8  | 562.0  |
| 65°    | 535.1  | 532.4  | 517.5  | 505.4  | 500.0  |
| 67.5°  | 471.7  | 466.3  | 455.5  | 444.8  | 442.1  |
| 70°    | 412.4  | 405.7  | 393.5  | 385.5  | 380.1  |
| 72.5°  | 347.7  | 343.7  | 336.9  | 327.5  | 322.1  |
| 75°    | 284.4  | 281.7  | 274.9  | 270.9  | 265.5  |
| 77.5°  | 225.1  | 223.7  | 219.7  | 217.0  | 212.9  |
| 80°    | 169.8  | 169.8  | 167.1  | 165.8  | 163.1  |
| 82.5°  | 121.3  | 118.6  | 118.6  | 115.9  | 115.9  |
| 85°    | 74.1   | 75.5   | 75.5   | 74.1   | 71.4   |
| 87.5°  | 36.4   | 36.4   | 35.0   | 35.0   | 32.3   |
| 90°    | 0.6    | 5.2    | 9.2    | 12.1   | 13.8   |
| 92.5°  | 17.2   | 20.1   | 25.3   | 29.3   | 30.4   |
| 95°    | 37.3   | 38.5   | 44.2   | 48.2   | 49.4   |
| 97.5°  | 57.4   | 58.0   | 66.0   | 69.5   | 70.0   |
| 100°   | 80.4   | 80.4   | 87.8   | 93.0   | 94.1   |
| 102.5° | 105.1  | 107.9  | 110.8  | 116.5  | 118.3  |
| 105°   | 130.9  | 133.8  | 137.2  | 140.7  | 142.4  |
| 107.5° | 159.0  | 161.9  | 164.8  | 166.5  | 166.5  |
| 110°   | 188.3  | 191.2  | 192.9  | 194.6  | 194.0  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 218.2 | 219.3 | 221.6 | 222.2 | 221.0 |
| 115°   | 247.4 | 249.7 | 250.9 | 250.3 | 249.7 |
| 117.5° | 277.3 | 277.9 | 279.0 | 279.6 | 277.3 |
| 120°   | 304.8 | 307.7 | 308.3 | 308.3 | 306.0 |
| 122.5° | 334.7 | 335.3 | 337.0 | 336.4 | 334.7 |
| 125°   | 361.1 | 364.5 | 365.1 | 364.0 | 363.4 |
| 127.5° | 390.4 | 392.1 | 392.7 | 392.1 | 391.0 |
| 130°   | 416.2 | 419.1 | 420.2 | 419.7 | 418.5 |
| 132.5° | 442.0 | 447.2 | 446.6 | 446.1 | 444.3 |
| 135°   | 469.6 | 473.0 | 473.6 | 473.6 | 471.3 |
| 137.5° | 495.4 | 498.9 | 500.0 | 500.6 | 497.7 |
| 140°   | 520.1 | 523.0 | 524.7 | 525.9 | 523.0 |
| 142.5° | 544.8 | 547.1 | 549.4 | 550.0 | 547.1 |
| 145°   | 568.9 | 571.2 | 572.9 | 572.9 | 571.2 |
| 147.5° | 591.3 | 593.0 | 594.2 | 595.9 | 591.3 |
| 150°   | 613.7 | 613.1 | 615.4 | 615.4 | 614.3 |
| 152.5° | 632.1 | 633.2 | 633.8 | 635.5 | 633.2 |
| 155°   | 651.0 | 651.0 | 651.6 | 653.9 | 651.0 |
| 157.5° | 668.2 | 667.1 | 667.7 | 670.0 | 665.9 |
| 160°   | 683.2 | 681.4 | 682.0 | 684.3 | 681.4 |
| 162.5° | 696.4 | 695.2 | 695.2 | 698.1 | 694.6 |
| 165°   | 707.8 | 706.7 | 707.3 | 709.6 | 706.1 |
| 167.5° | 718.2 | 715.9 | 715.9 | 719.3 | 715.9 |
| 170°   | 726.2 | 723.9 | 723.9 | 727.4 | 723.3 |
| 172.5° | 732.0 | 729.7 | 729.7 | 733.1 | 729.7 |
| 175°   | 736.0 | 733.7 | 733.7 | 737.1 | 733.1 |
| 177.5° | 738.8 | 736.5 | 736.0 | 739.4 | 735.4 |
| 180°   | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 |

(END OF REPORT)