

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: P1028496

Luminaire Tested: S125RDIP-B1090D375UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1028496  
REPORT IS A COMBINATION OF REPORTS P1005031 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIP-B1090D375UB40-4F0-XX-W2A-F1  
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}  
{m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

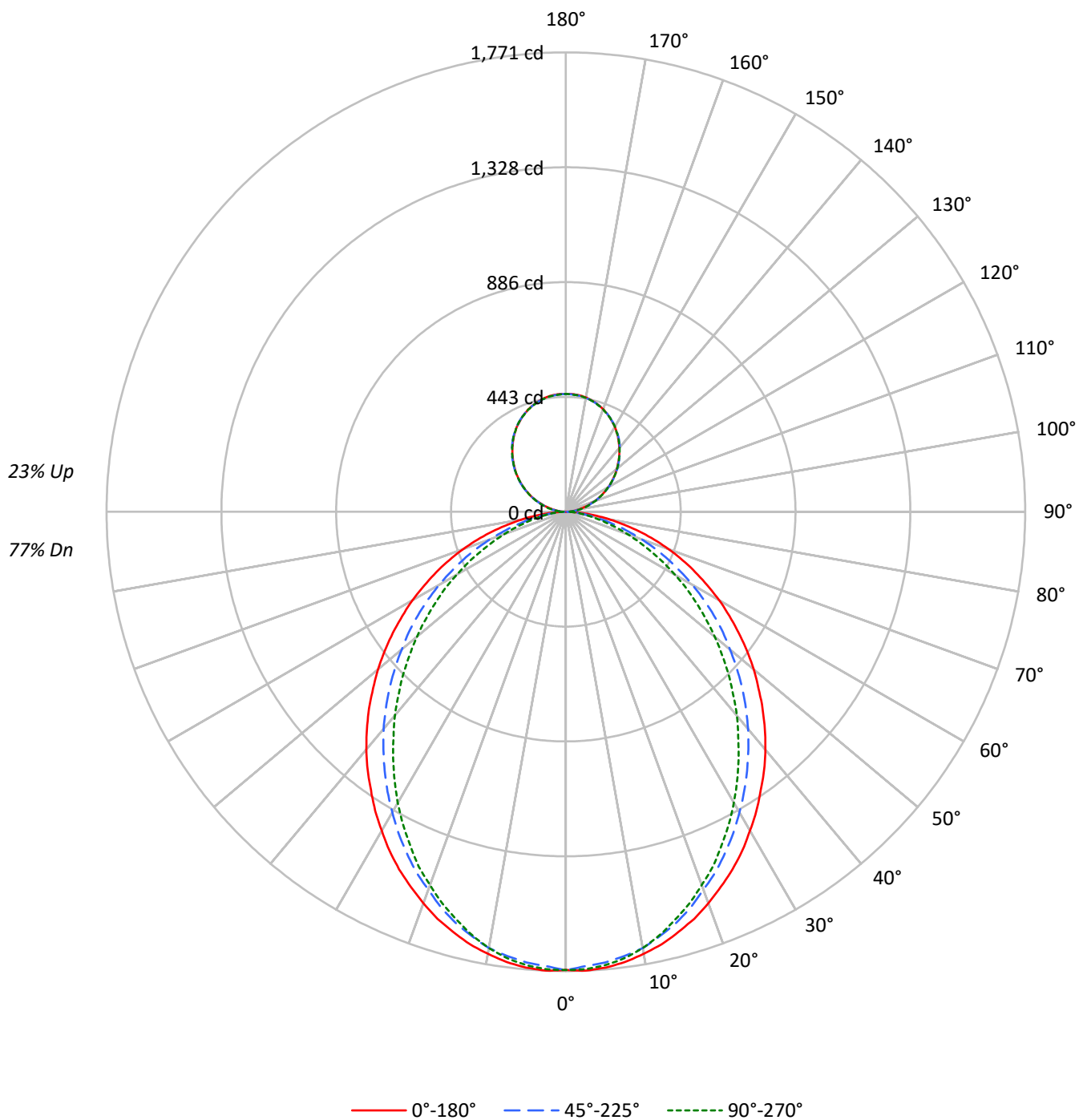
Lumens per Lamp: N/A  
Luminaire Lumens: 5443.0 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 56.1  
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   | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 98 | 98 | 98 | 89 | 89 | 89 | 81 | 81 | 81 |
| 1   | 104 | 100 | 96  | 92  | 99  | 95  | 92  | 89  | 87 | 84 | 82 | 79 | 77 | 75 | 72 | 70 | 69 |
| 2   | 95  | 88  | 81  | 76  | 90  | 84  | 78  | 73  | 76 | 72 | 68 | 70 | 66 | 63 | 64 | 61 | 59 |
| 3   | 87  | 77  | 70  | 64  | 83  | 74  | 67  | 62  | 68 | 62 | 58 | 62 | 58 | 54 | 57 | 53 | 50 |
| 4   | 80  | 69  | 61  | 54  | 76  | 66  | 58  | 53  | 61 | 54 | 50 | 56 | 51 | 46 | 51 | 47 | 43 |
| 5   | 74  | 62  | 53  | 47  | 70  | 59  | 51  | 46  | 54 | 48 | 43 | 50 | 45 | 41 | 46 | 42 | 38 |
| 6   | 68  | 55  | 47  | 41  | 65  | 53  | 46  | 40  | 49 | 43 | 38 | 45 | 40 | 36 | 42 | 37 | 34 |
| 7   | 63  | 50  | 42  | 36  | 60  | 48  | 41  | 35  | 45 | 38 | 34 | 41 | 36 | 32 | 38 | 34 | 30 |
| 8   | 59  | 46  | 38  | 32  | 56  | 44  | 37  | 32  | 41 | 35 | 30 | 38 | 33 | 29 | 35 | 31 | 27 |
| 9   | 55  | 42  | 34  | 29  | 52  | 41  | 33  | 29  | 38 | 32 | 27 | 35 | 30 | 26 | 33 | 28 | 25 |
| 10  | 51  | 39  | 31  | 26  | 49  | 38  | 31  | 26  | 35 | 29 | 25 | 33 | 27 | 24 | 30 | 26 | 22 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11319 | 11319 | 11319 |
| 5°  | 11321 | 11037 | 11055 |
| 10° | 11210 | 10759 | 10664 |
| 15° | 11052 | 10369 | 10150 |
| 20° | 10855 | 9901  | 9611  |
| 25° | 10629 | 9444  | 9034  |
| 30° | 10354 | 8941  | 8427  |
| 35° | 10072 | 8431  | 7783  |
| 40° | 9805  | 7906  | 7153  |
| 45° | 9484  | 7339  | 6494  |
| 50° | 9157  | 6739  | 5823  |
| 55° | 8778  | 6147  | 5127  |
| 60° | 8391  | 5470  | 4407  |
| 65° | 7930  | 4714  | 3629  |
| 70° | 7392  | 3838  | 2856  |
| 75° | 6648  | 2886  | 2082  |
| 80° | 5607  | 1869  | 1403  |
| 85° | 4197  | 1004  | 790   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9484 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 166.3  | 3.1       |
| 10°-20°   | 464.7  | 8.5       |
| 20°-30°   | 673.8  | 12.4      |
| 30°-40°   | 767.6  | 14.1      |
| 40°-50°   | 748.2  | 13.7      |
| 50°-60°   | 629.6  | 11.6      |
| 60°-70°   | 441.2  | 8.1       |
| 70°-80°   | 226.2  | 4.2       |
| 80°-90°   | 57.1   | 1.0       |
| 90°-100°  | 30.2   | 0.6       |
| 100°-110° | 89.8   | 1.6       |
| 110°-120° | 152.3  | 2.8       |
| 120°-130° | 200.4  | 3.7       |
| 130°-140° | 224.6  | 4.1       |
| 140°-150° | 220.1  | 4.0       |
| 150°-160° | 184.9  | 3.4       |
| 160°-170° | 122.9  | 2.3       |
| 170°-180° | 43.0   | 0.8       |
| 0°-30°    | 1304.7 | 24.0      |
| 0°-40°    | 2072.3 | 38.1      |
| 0°-60°    | 3450.1 | 63.4      |
| 0°-90°    | 4174.7 | 76.7      |
| 90°-120°  | 272.3  | 5.0       |
| 90°-150°  | 917.4  | 16.9      |
| 90°-180°  | 1268.0 | 23.3      |
| 0°-180°   | 5443.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1767 | 1767  | 1767 | 1767  | 1767 |      |
| 5°   | 1764 | 1759  | 1744 | 1757  | 1755 | 167  |
| 15°  | 1677 | 1669  | 1641 | 1640  | 1628 | 473  |
| 25°  | 1521 | 1501  | 1452 | 1434  | 1420 | 700  |
| 35°  | 1310 | 1278  | 1218 | 1180  | 1161 | 821  |
| 45°  | 1073 | 1034  | 961  | 907   | 887  | 827  |
| 55°  | 814  | 771   | 696  | 636   | 615  | 728  |
| 65°  | 551  | 506   | 435  | 382   | 362  | 546  |
| 75°  | 294  | 254   | 198  | 168   | 159  | 310  |
| 85°  | 73   | 49    | 43   | 41    | 40   | 80   |
| 90°  | 0    | 3     | 6    | 7     | 8    | 6    |
| 95°  | 23   | 24    | 27   | 30    | 30   | 24   |
| 105° | 81   | 82    | 84   | 87    | 88   | 86   |
| 115° | 152  | 154   | 154  | 154   | 154  | 151  |
| 125° | 222  | 225   | 225  | 224   | 224  | 199  |
| 135° | 289  | 291   | 292  | 292   | 290  | 223  |
| 145° | 350  | 352   | 353  | 353   | 352  | 219  |
| 155° | 401  | 401   | 401  | 403   | 401  | 185  |
| 165° | 436  | 435   | 436  | 437   | 435  | 123  |
| 175° | 453  | 452   | 452  | 454   | 452  | 43   |
| 180° | 454  | 454   | 454  | 454   | 454  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1766.7 | 1766.7 | 1766.7 | 1766.7 | 1766.7 |
| 2.5°   | 1770.7 | 1766.7 | 1753.3 | 1766.7 | 1765.3 |
| 5°     | 1764.0 | 1758.7 | 1744.0 | 1757.3 | 1754.7 |
| 7.5°   | 1750.7 | 1745.3 | 1728.0 | 1738.6 | 1736.0 |
| 10°    | 1730.6 | 1726.6 | 1708.0 | 1712.0 | 1708.0 |
| 12.5°  | 1708.0 | 1702.6 | 1675.9 | 1678.6 | 1671.9 |
| 15°    | 1677.3 | 1669.3 | 1641.2 | 1639.9 | 1627.9 |
| 17.5°  | 1645.2 | 1633.2 | 1599.9 | 1593.2 | 1583.9 |
| 20°    | 1606.5 | 1593.2 | 1550.5 | 1543.8 | 1531.8 |
| 22.5°  | 1563.8 | 1550.5 | 1505.1 | 1490.5 | 1481.1 |
| 25°    | 1521.1 | 1501.1 | 1451.8 | 1434.4 | 1419.7 |
| 27.5°  | 1473.1 | 1449.1 | 1397.1 | 1374.4 | 1359.7 |
| 30°    | 1419.7 | 1394.4 | 1338.3 | 1307.7 | 1295.6 |
| 32.5°  | 1367.7 | 1337.0 | 1279.6 | 1244.9 | 1228.9 |
| 35°    | 1310.3 | 1278.3 | 1218.3 | 1179.6 | 1160.9 |
| 37.5°  | 1255.6 | 1216.9 | 1155.5 | 1110.2 | 1091.5 |
| 40°    | 1196.9 | 1156.9 | 1092.8 | 1042.1 | 1026.1 |
| 42.5°  | 1135.5 | 1094.2 | 1027.4 | 979.4  | 954.1  |
| 45°    | 1072.8 | 1034.1 | 960.7  | 907.4  | 887.3  |
| 47.5°  | 1007.4 | 967.4  | 894.0  | 839.3  | 816.6  |
| 50°    | 946.0  | 902.0  | 826.0  | 769.9  | 749.9  |
| 52.5°  | 879.3  | 834.0  | 763.2  | 701.9  | 681.8  |
| 55°    | 813.9  | 771.2  | 696.5  | 636.5  | 615.1  |
| 57.5°  | 747.2  | 701.9  | 629.8  | 571.1  | 552.4  |
| 60°    | 683.2  | 636.5  | 564.4  | 505.7  | 485.7  |
| 62.5°  | 615.1  | 571.1  | 497.7  | 444.3  | 424.3  |
| 65°    | 551.1  | 505.7  | 435.0  | 381.6  | 361.6  |
| 67.5°  | 487.0  | 441.7  | 373.6  | 322.9  | 306.9  |
| 70°    | 421.7  | 376.3  | 309.6  | 268.2  | 252.2  |
| 72.5°  | 357.6  | 313.6  | 252.2  | 214.8  | 205.5  |
| 75°    | 293.6  | 253.5  | 197.5  | 168.1  | 158.8  |
| 77.5°  | 228.2  | 196.1  | 149.4  | 126.8  | 118.8  |
| 80°    | 173.5  | 141.4  | 104.1  | 92.1   | 89.4   |
| 82.5°  | 120.1  | 92.1   | 69.4   | 65.4   | 64.0   |
| 85°    | 73.4   | 49.4   | 42.7   | 41.4   | 40.0   |
| 87.5°  | 30.7   | 21.3   | 20.0   | 20.0   | 18.7   |
| 90°    | 0.4    | 3.2    | 5.7    | 7.4    | 8.5    |
| 92.5°  | 10.6   | 12.4   | 15.6   | 18.0   | 18.7   |
| 95°    | 23.0   | 23.7   | 27.2   | 29.7   | 30.4   |
| 97.5°  | 35.4   | 35.7   | 40.7   | 42.8   | 43.1   |
| 100°   | 49.5   | 49.5   | 54.1   | 57.3   | 58.0   |
| 102.5° | 64.7   | 66.5   | 68.3   | 71.8   | 72.9   |
| 105°   | 80.6   | 82.4   | 84.5   | 86.6   | 87.7   |
| 107.5° | 98.0   | 99.7   | 101.5  | 102.6  | 102.6  |
| 110°   | 116.0  | 117.8  | 118.8  | 119.9  | 119.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 134.4 | 135.1 | 136.5 | 136.9 | 136.2 |
| 115°   | 152.4 | 153.8 | 154.5 | 154.2 | 153.8 |
| 117.5° | 170.8 | 171.2 | 171.9 | 172.2 | 170.8 |
| 120°   | 187.8 | 189.6 | 189.9 | 189.9 | 188.5 |
| 122.5° | 206.2 | 206.5 | 207.6 | 207.2 | 206.2 |
| 125°   | 222.4 | 224.6 | 224.9 | 224.2 | 223.9 |
| 127.5° | 240.5 | 241.5 | 241.9 | 241.5 | 240.8 |
| 130°   | 256.4 | 258.2 | 258.9 | 258.5 | 257.8 |
| 132.5° | 272.3 | 275.5 | 275.1 | 274.8 | 273.7 |
| 135°   | 289.3 | 291.4 | 291.8 | 291.8 | 290.3 |
| 137.5° | 305.2 | 307.3 | 308.0 | 308.4 | 306.6 |
| 140°   | 320.4 | 322.2 | 323.2 | 323.9 | 322.2 |
| 142.5° | 335.6 | 337.0 | 338.4 | 338.8 | 337.0 |
| 145°   | 350.5 | 351.9 | 352.9 | 352.9 | 351.9 |
| 147.5° | 364.3 | 365.3 | 366.0 | 367.1 | 364.3 |
| 150°   | 378.0 | 377.7 | 379.1 | 379.1 | 378.4 |
| 152.5° | 389.4 | 390.1 | 390.4 | 391.5 | 390.1 |
| 155°   | 401.0 | 401.0 | 401.4 | 402.8 | 401.0 |
| 157.5° | 411.6 | 410.9 | 411.3 | 412.7 | 410.2 |
| 160°   | 420.8 | 419.8 | 420.1 | 421.5 | 419.8 |
| 162.5° | 429.0 | 428.3 | 428.3 | 430.0 | 427.9 |
| 165°   | 436.0 | 435.3 | 435.7 | 437.1 | 435.0 |
| 167.5° | 442.4 | 441.0 | 441.0 | 443.1 | 441.0 |
| 170°   | 447.4 | 445.9 | 445.9 | 448.1 | 445.6 |
| 172.5° | 450.9 | 449.5 | 449.5 | 451.6 | 449.5 |
| 175°   | 453.4 | 452.0 | 452.0 | 454.1 | 451.6 |
| 177.5° | 455.1 | 453.7 | 453.4 | 455.5 | 453.0 |
| 180°   | 454.4 | 454.4 | 454.4 | 454.4 | 454.4 |

(END OF REPORT)