

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: P1027704

Luminaire Tested: S125DIP-B1270D610UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027704  
REPORT IS A COMBINATION OF REPORTS P1001757 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1270D610UB50-4F0-XX-W2A-F1  
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

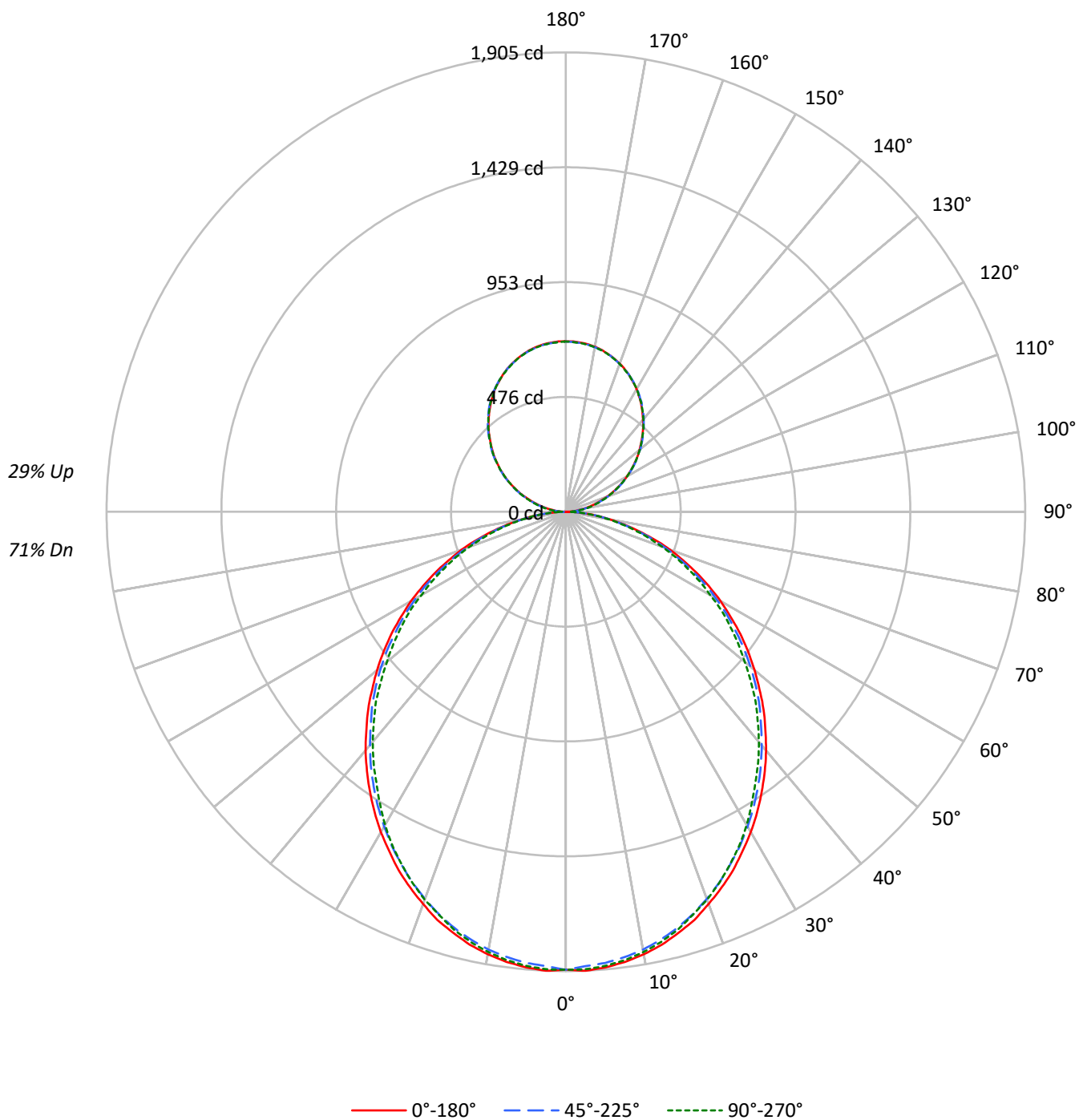
Lumens per Lamp: N/A  
Luminaire Lumens: 6915.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 76.7  
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 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |  |    |    |    |  |    |
| 0   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 |  | 85 | 85 | 85 |  | 76 |
| 1   | 103 | 98  | 94  | 90  | 97  | 93  | 89  | 86  | 84 | 81 | 78 |  | 75 | 73 | 71 |  | 67 |
| 2   | 93  | 86  | 79  | 74  | 88  | 81  | 76  | 71  | 73 | 69 | 65 |  | 66 | 62 | 59 |  | 59 |
| 3   | 85  | 75  | 68  | 61  | 80  | 72  | 65  | 59  | 65 | 59 | 55 |  | 58 | 54 | 50 |  | 52 |
| 4   | 78  | 67  | 58  | 52  | 74  | 63  | 56  | 50  | 57 | 51 | 47 |  | 52 | 47 | 43 |  | 47 |
| 5   | 72  | 60  | 51  | 45  | 68  | 57  | 49  | 43  | 51 | 45 | 40 |  | 47 | 41 | 37 |  | 42 |
| 6   | 66  | 54  | 45  | 39  | 62  | 51  | 43  | 38  | 46 | 40 | 35 |  | 42 | 37 | 33 |  | 38 |
| 7   | 61  | 48  | 40  | 34  | 58  | 46  | 39  | 33  | 42 | 36 | 31 |  | 38 | 33 | 29 |  | 35 |
| 8   | 57  | 44  | 36  | 31  | 54  | 42  | 35  | 30  | 39 | 32 | 28 |  | 35 | 30 | 26 |  | 32 |
| 9   | 53  | 40  | 33  | 27  | 50  | 39  | 32  | 27  | 36 | 29 | 25 |  | 32 | 27 | 23 |  | 30 |
| 10  | 50  | 37  | 30  | 25  | 47  | 36  | 29  | 24  | 33 | 27 | 23 |  | 30 | 25 | 21 |  | 27 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12168 | 12168 | 12168 |
| 5°  | 12168 | 11886 | 11908 |
| 10° | 12068 | 11613 | 11577 |
| 15° | 11910 | 11287 | 11186 |
| 20° | 11695 | 10909 | 10738 |
| 25° | 11465 | 10497 | 10258 |
| 30° | 11187 | 10068 | 9753  |
| 35° | 10891 | 9618  | 9186  |
| 40° | 10585 | 9142  | 8683  |
| 45° | 10254 | 8678  | 8148  |
| 50° | 9889  | 8152  | 7525  |
| 55° | 9529  | 7571  | 6951  |
| 60° | 9098  | 6960  | 6284  |
| 65° | 8583  | 6253  | 5594  |
| 70° | 8060  | 5438  | 4798  |
| 75° | 7178  | 4478  | 3880  |
| 80° | 6117  | 3345  | 2854  |
| 85° | 4723  | 1977  | 1572  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10254 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 179.2  | 2.6       |
| 10°-20°   | 506.2  | 7.3       |
| 20°-30°   | 747.3  | 10.8      |
| 30°-40°   | 871.9  | 12.6      |
| 40°-50°   | 875.7  | 12.7      |
| 50°-60°   | 768.7  | 11.1      |
| 60°-70°   | 572.6  | 8.3       |
| 70°-80°   | 327.0  | 4.7       |
| 80°-90°   | 95.5   | 1.4       |
| 90°-100°  | 47.0   | 0.7       |
| 100°-110° | 139.5  | 2.0       |
| 110°-120° | 236.6  | 3.4       |
| 120°-130° | 311.5  | 4.5       |
| 130°-140° | 349.0  | 5.0       |
| 140°-150° | 342.1  | 4.9       |
| 150°-160° | 287.4  | 4.2       |
| 160°-170° | 191.0  | 2.8       |
| 170°-180° | 66.8   | 1.0       |
| 0°-30°    | 1432.7 | 20.7      |
| 0°-40°    | 2304.6 | 33.3      |
| 0°-60°    | 3949.0 | 57.1      |
| 0°-90°    | 4944.1 | 71.5      |
| 90°-120°  | 423.1  | 6.1       |
| 90°-150°  | 1425.7 | 20.6      |
| 90°-180°  | 1971.0 | 28.5      |
| 0°-180°   | 6915.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1899 | 1899  | 1899 | 1899  | 1899 |      |
| 5°   | 1896 | 1893  | 1878 | 1892  | 1890 | 180  |
| 15°  | 1808 | 1803  | 1786 | 1794  | 1794 | 510  |
| 25°  | 1641 | 1633  | 1614 | 1617  | 1612 | 755  |
| 35°  | 1417 | 1411  | 1390 | 1382  | 1370 | 886  |
| 45°  | 1160 | 1154  | 1136 | 1118  | 1113 | 894  |
| 55°  | 884  | 879   | 858  | 844   | 834  | 789  |
| 65°  | 596  | 594   | 577  | 563   | 557  | 592  |
| 75°  | 317  | 314   | 306  | 302   | 296  | 337  |
| 85°  | 83   | 84    | 84   | 83    | 80   | 90   |
| 90°  | 0    | 5     | 9    | 12    | 13   | 8    |
| 95°  | 36   | 37    | 42   | 46    | 47   | 37   |
| 105° | 125  | 128   | 131  | 135   | 136  | 134  |
| 115° | 237  | 239   | 240  | 240   | 239  | 234  |
| 125° | 346  | 349   | 350  | 348   | 348  | 310  |
| 135° | 450  | 453   | 453  | 453   | 451  | 346  |
| 145° | 545  | 547   | 548  | 548   | 547  | 340  |
| 155° | 623  | 623   | 624  | 626   | 623  | 287  |
| 165° | 678  | 676   | 677  | 679   | 676  | 191  |
| 175° | 704  | 702   | 702  | 706   | 702  | 67   |
| 180° | 706  | 706   | 706  | 706   | 706  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1899.1 | 1899.1 | 1899.1 | 1899.1 | 1899.1 |
| 2.5°   | 1905.2 | 1900.6 | 1885.6 | 1900.6 | 1899.1 |
| 5°     | 1896.1 | 1893.1 | 1878.1 | 1891.6 | 1890.1 |
| 7.5°   | 1882.6 | 1879.6 | 1863.1 | 1876.6 | 1875.1 |
| 10°    | 1863.1 | 1860.1 | 1843.6 | 1855.6 | 1854.1 |
| 12.5°  | 1839.0 | 1833.0 | 1818.0 | 1827.0 | 1827.0 |
| 15°    | 1807.5 | 1803.0 | 1786.5 | 1794.0 | 1794.0 |
| 17.5°  | 1774.4 | 1766.9 | 1750.4 | 1759.4 | 1751.9 |
| 20°    | 1730.9 | 1727.9 | 1708.3 | 1718.8 | 1711.3 |
| 22.5°  | 1687.3 | 1681.3 | 1663.3 | 1669.3 | 1664.8 |
| 25°    | 1640.7 | 1633.2 | 1613.7 | 1616.7 | 1612.2 |
| 27.5°  | 1586.6 | 1582.1 | 1562.6 | 1564.1 | 1559.6 |
| 30°    | 1534.0 | 1529.5 | 1507.0 | 1504.0 | 1499.5 |
| 32.5°  | 1476.9 | 1469.4 | 1449.9 | 1443.9 | 1434.9 |
| 35°    | 1416.8 | 1410.8 | 1389.8 | 1382.3 | 1370.3 |
| 37.5°  | 1355.2 | 1347.7 | 1328.2 | 1317.7 | 1310.2 |
| 40°    | 1292.1 | 1284.6 | 1263.6 | 1250.1 | 1245.6 |
| 42.5°  | 1224.5 | 1218.5 | 1197.5 | 1185.5 | 1177.9 |
| 45°    | 1159.9 | 1153.9 | 1135.9 | 1117.8 | 1113.3 |
| 47.5°  | 1089.3 | 1090.8 | 1068.3 | 1050.2 | 1039.7 |
| 50°    | 1021.7 | 1017.2 | 999.2  | 979.6  | 969.1  |
| 52.5°  | 952.6  | 949.6  | 930.0  | 913.5  | 901.5  |
| 55°    | 883.5  | 879.0  | 857.9  | 844.4  | 833.9  |
| 57.5°  | 809.8  | 808.3  | 790.3  | 772.3  | 767.8  |
| 60°    | 740.7  | 734.7  | 718.2  | 703.2  | 692.6  |
| 62.5°  | 668.6  | 664.1  | 650.6  | 634.0  | 626.5  |
| 65°    | 596.5  | 593.5  | 577.0  | 563.4  | 557.4  |
| 67.5°  | 525.9  | 519.9  | 507.8  | 495.8  | 492.8  |
| 70°    | 459.8  | 452.2  | 438.7  | 429.7  | 423.7  |
| 72.5°  | 387.6  | 383.1  | 375.6  | 365.1  | 359.1  |
| 75°    | 317.0  | 314.0  | 306.5  | 302.0  | 296.0  |
| 77.5°  | 250.9  | 249.4  | 244.9  | 241.9  | 237.4  |
| 80°    | 189.3  | 189.3  | 186.3  | 184.8  | 181.8  |
| 82.5°  | 135.2  | 132.2  | 132.2  | 129.2  | 129.2  |
| 85°    | 82.6   | 84.1   | 84.1   | 82.6   | 79.6   |
| 87.5°  | 40.6   | 40.6   | 39.1   | 39.1   | 36.1   |
| 90°    | 0.5    | 4.9    | 8.8    | 11.5   | 13.2   |
| 92.5°  | 16.5   | 19.2   | 24.2   | 28.0   | 29.1   |
| 95°    | 35.7   | 36.8   | 42.3   | 46.2   | 47.3   |
| 97.5°  | 55.0   | 55.5   | 63.2   | 66.5   | 67.0   |
| 100°   | 76.9   | 76.9   | 84.1   | 89.0   | 90.1   |
| 102.5° | 100.6  | 103.3  | 106.1  | 111.6  | 113.2  |
| 105°   | 125.3  | 128.0  | 131.3  | 134.6  | 136.3  |
| 107.5° | 152.2  | 155.0  | 157.7  | 159.4  | 159.4  |
| 110°   | 180.3  | 183.0  | 184.7  | 186.3  | 185.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 208.8 | 209.9 | 212.1 | 212.7 | 211.6 |
| 115°   | 236.9 | 239.1 | 240.2 | 239.6 | 239.1 |
| 117.5° | 265.4 | 266.0 | 267.1 | 267.6 | 265.4 |
| 120°   | 291.8 | 294.6 | 295.1 | 295.1 | 292.9 |
| 122.5° | 320.4 | 320.9 | 322.6 | 322.0 | 320.4 |
| 125°   | 345.7 | 349.0 | 349.5 | 348.4 | 347.9 |
| 127.5° | 373.7 | 375.3 | 375.9 | 375.3 | 374.2 |
| 130°   | 398.4 | 401.2 | 402.3 | 401.7 | 400.6 |
| 132.5° | 423.2 | 428.1 | 427.6 | 427.0 | 425.4 |
| 135°   | 449.5 | 452.8 | 453.4 | 453.4 | 451.2 |
| 137.5° | 474.3 | 477.6 | 478.7 | 479.2 | 476.5 |
| 140°   | 497.9 | 500.6 | 502.3 | 503.4 | 500.6 |
| 142.5° | 521.5 | 523.7 | 525.9 | 526.5 | 523.7 |
| 145°   | 544.6 | 546.8 | 548.5 | 548.5 | 546.8 |
| 147.5° | 566.0 | 567.7 | 568.8 | 570.4 | 566.0 |
| 150°   | 587.5 | 586.9 | 589.1 | 589.1 | 588.0 |
| 152.5° | 605.1 | 606.2 | 606.7 | 608.4 | 606.2 |
| 155°   | 623.2 | 623.2 | 623.7 | 625.9 | 623.2 |
| 157.5° | 639.7 | 638.6 | 639.1 | 641.3 | 637.5 |
| 160°   | 654.0 | 652.3 | 652.9 | 655.1 | 652.3 |
| 162.5° | 666.6 | 665.5 | 665.5 | 668.3 | 665.0 |
| 165°   | 677.6 | 676.5 | 677.1 | 679.3 | 676.0 |
| 167.5° | 687.5 | 685.3 | 685.3 | 688.6 | 685.3 |
| 170°   | 695.2 | 693.0 | 693.0 | 696.3 | 692.4 |
| 172.5° | 700.7 | 698.5 | 698.5 | 701.8 | 698.5 |
| 175°   | 704.5 | 702.3 | 702.3 | 705.6 | 701.8 |
| 177.5° | 707.3 | 705.1 | 704.5 | 707.8 | 704.0 |
| 180°   | 706.2 | 706.2 | 706.2 | 706.2 | 706.2 |

(END OF REPORT)