

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: P1026154

Luminaire Tested: S124RDIP-B1195D365UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026154  
REPORT IS A COMBINATION OF REPORTS P999124 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDIP-B1195D365UB35-4F0-XX-W2A-F  
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}  
{m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

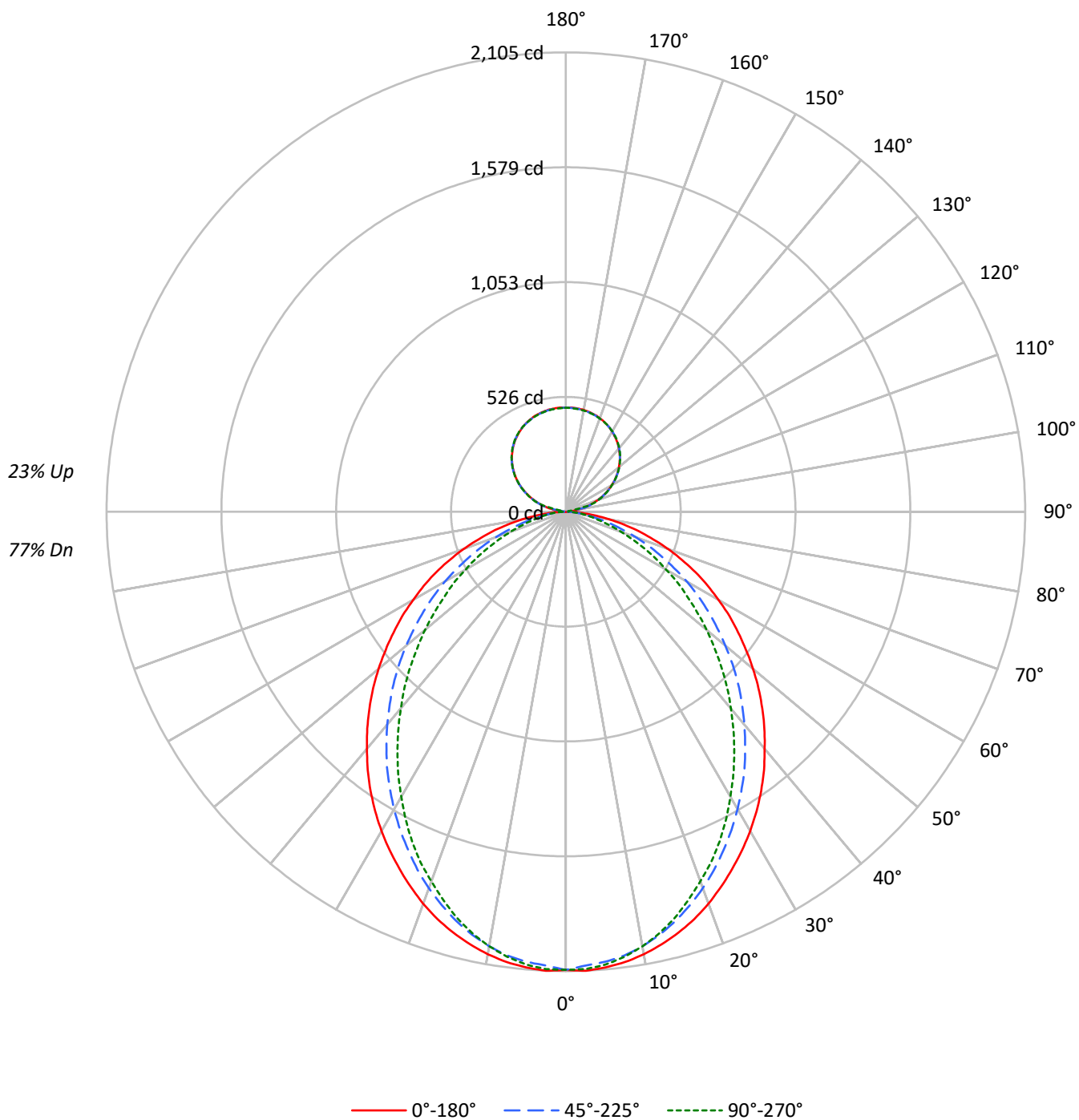
Lumens per Lamp: N/A  
Luminaire Lumens: 6328.0 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 70.6  
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  | 82  | 76  | 91  | 84  | 78  | 74  | 77 | 72 | 68 | 70 | 67 | 63 | 64 | 61 | 59 |
| 3   | 87  | 78  | 70  | 64  | 83  | 74  | 67  | 62  | 68 | 63 | 58 | 62 | 58 | 54 | 57 | 53 | 50 |
| 4   | 80  | 69  | 61  | 55  | 76  | 66  | 59  | 53  | 61 | 55 | 50 | 56 | 51 | 47 | 51 | 47 | 44 |
| 5   | 74  | 62  | 53  | 47  | 70  | 59  | 52  | 46  | 55 | 48 | 43 | 50 | 45 | 41 | 46 | 42 | 38 |
| 6   | 68  | 56  | 47  | 41  | 65  | 54  | 46  | 40  | 50 | 43 | 38 | 46 | 40 | 36 | 42 | 38 | 34 |
| 7   | 63  | 51  | 42  | 37  | 60  | 49  | 41  | 36  | 45 | 39 | 34 | 42 | 36 | 32 | 39 | 34 | 30 |
| 8   | 59  | 46  | 38  | 33  | 56  | 45  | 37  | 32  | 41 | 35 | 30 | 38 | 33 | 29 | 36 | 31 | 27 |
| 9   | 55  | 42  | 35  | 29  | 52  | 41  | 34  | 29  | 38 | 32 | 27 | 35 | 30 | 26 | 33 | 28 | 25 |
| 10  | 52  | 39  | 32  | 27  | 49  | 38  | 31  | 26  | 35 | 29 | 25 | 33 | 28 | 24 | 31 | 26 | 23 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17116 | 17116 | 17116 |
| 5°  | 17118 | 16608 | 16610 |
| 10° | 16973 | 16084 | 15893 |
| 15° | 16740 | 15431 | 15046 |
| 20° | 16434 | 14687 | 14082 |
| 25° | 16052 | 13885 | 13139 |
| 30° | 15679 | 13066 | 12082 |
| 35° | 15268 | 12236 | 11047 |
| 40° | 14780 | 11342 | 9985  |
| 45° | 14321 | 10456 | 8933  |
| 50° | 13800 | 9489  | 7864  |
| 55° | 13237 | 8496  | 6762  |
| 60° | 12612 | 7443  | 5673  |
| 65° | 12008 | 6234  | 4624  |
| 70° | 11150 | 4961  | 3534  |
| 75° | 10052 | 3611  | 2471  |
| 80° | 8394  | 2217  | 1777  |
| 85° | 6316  | 1276  | 977   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14321 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 197.4  | 3.1       |
| 10°-20°   | 550.3  | 8.7       |
| 20°-30°   | 794.5  | 12.6      |
| 30°-40°   | 900.5  | 14.2      |
| 40°-50°   | 869.4  | 13.7      |
| 50°-60°   | 722.8  | 11.4      |
| 60°-70°   | 498.9  | 7.9       |
| 70°-80°   | 252.1  | 4.0       |
| 80°-90°   | 65.0   | 1.0       |
| 90°-100°  | 15.8   | 0.3       |
| 100°-110° | 104.3  | 1.6       |
| 110°-120° | 199.2  | 3.1       |
| 120°-130° | 252.9  | 4.0       |
| 130°-140° | 270.6  | 4.3       |
| 140°-150° | 253.0  | 4.0       |
| 150°-160° | 204.0  | 3.2       |
| 160°-170° | 131.6  | 2.1       |
| 170°-180° | 45.4   | 0.7       |
| 0°-30°    | 1542.2 | 24.4      |
| 0°-40°    | 2442.7 | 38.6      |
| 0°-60°    | 4035.0 | 63.8      |
| 0°-90°    | 4851.0 | 76.7      |
| 90°-120°  | 319.4  | 5.0       |
| 90°-150°  | 1096.0 | 17.3      |
| 90°-180°  | 1477.0 | 23.3      |
| 0°-180°   | 6328.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2099 | 2099  | 2099 | 2099  | 2099 |      |
| 5°   | 2096 | 2089  | 2070 | 2086  | 2083 | 199  |
| 15°  | 1996 | 1982  | 1942 | 1938  | 1927 | 563  |
| 25°  | 1805 | 1776  | 1710 | 1683  | 1667 | 832  |
| 35°  | 1561 | 1509  | 1429 | 1374  | 1345 | 975  |
| 45°  | 1273 | 1213  | 1117 | 1038  | 1009 | 982  |
| 55°  | 964  | 900   | 796  | 712   | 682  | 863  |
| 65°  | 656  | 587   | 484  | 415   | 395  | 648  |
| 75°  | 349  | 289   | 214  | 177   | 167  | 368  |
| 85°  | 87   | 55    | 50   | 47    | 47   | 95   |
| 90°  | 1    | 5     | 8    | 10    | 11   | 6    |
| 95°  | 20   | 8     | 8    | 10    | 10   | 24   |
| 105° | 108  | 110   | 111  | 115   | 102  | 112  |
| 115° | 201  | 202   | 201  | 202   | 202  | 197  |
| 125° | 282  | 284   | 283  | 284   | 284  | 252  |
| 135° | 350  | 350   | 351  | 352   | 352  | 270  |
| 145° | 403  | 404   | 404  | 405   | 406  | 252  |
| 155° | 442  | 443   | 442  | 443   | 442  | 204  |
| 165° | 467  | 465   | 465  | 468   | 464  | 132  |
| 175° | 477  | 475   | 476  | 479   | 474  | 45   |
| 180° | 477  | 477   | 477  | 477   | 477  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2099.0 | 2099.0 | 2099.0 | 2099.0 | 2099.0 |
| 2.5°   | 2105.4 | 2099.0 | 2081.3 | 2099.0 | 2097.4 |
| 5°     | 2095.8 | 2089.4 | 2070.1 | 2086.2 | 2082.9 |
| 7.5°   | 2081.3 | 2074.9 | 2050.8 | 2062.1 | 2057.2 |
| 10°    | 2058.8 | 2050.8 | 2021.9 | 2028.3 | 2021.9 |
| 12.5°  | 2029.9 | 2020.3 | 1984.9 | 1988.1 | 1978.5 |
| 15°    | 1996.2 | 1981.7 | 1941.5 | 1938.3 | 1927.0 |
| 17.5°  | 1957.6 | 1936.7 | 1890.1 | 1882.0 | 1866.0 |
| 20°    | 1911.0 | 1890.1 | 1835.4 | 1822.6 | 1801.7 |
| 22.5°  | 1859.5 | 1835.4 | 1776.0 | 1755.1 | 1739.0 |
| 25°    | 1804.9 | 1776.0 | 1710.1 | 1682.7 | 1666.7 |
| 27.5°  | 1748.6 | 1713.3 | 1644.2 | 1612.0 | 1589.5 |
| 30°    | 1689.2 | 1649.0 | 1573.5 | 1533.3 | 1507.6 |
| 32.5°  | 1626.5 | 1579.9 | 1501.1 | 1452.9 | 1428.8 |
| 35°    | 1560.6 | 1509.2 | 1428.8 | 1374.2 | 1345.2 |
| 37.5°  | 1491.5 | 1438.5 | 1350.1 | 1290.6 | 1261.7 |
| 40°    | 1417.6 | 1364.5 | 1272.9 | 1205.4 | 1176.5 |
| 42.5°  | 1346.8 | 1290.6 | 1194.2 | 1125.0 | 1094.5 |
| 45°    | 1272.9 | 1213.4 | 1117.0 | 1038.3 | 1009.3 |
| 47.5°  | 1197.4 | 1136.3 | 1036.7 | 954.7  | 922.5  |
| 50°    | 1120.2 | 1057.5 | 954.7  | 874.3  | 843.8  |
| 52.5°  | 1041.5 | 980.4  | 874.3  | 792.4  | 760.2  |
| 55°    | 964.3  | 900.0  | 795.6  | 712.0  | 681.5  |
| 57.5°  | 888.8  | 821.3  | 718.4  | 633.2  | 610.7  |
| 60°    | 806.8  | 742.5  | 639.7  | 556.1  | 530.4  |
| 62.5°  | 732.9  | 665.4  | 559.3  | 483.8  | 464.5  |
| 65°    | 655.7  | 586.6  | 483.8  | 414.7  | 395.4  |
| 67.5°  | 575.4  | 509.5  | 413.1  | 352.0  | 329.5  |
| 70°    | 499.8  | 432.3  | 340.7  | 287.7  | 271.6  |
| 72.5°  | 419.5  | 360.0  | 274.8  | 231.4  | 217.0  |
| 75°    | 348.8  | 289.3  | 213.8  | 176.8  | 167.1  |
| 77.5°  | 274.8  | 223.4  | 159.1  | 133.4  | 130.2  |
| 80°    | 204.1  | 157.5  | 109.3  | 104.5  | 102.9  |
| 82.5°  | 143.0  | 101.3  | 78.8   | 75.5   | 73.9   |
| 85°    | 86.8   | 54.6   | 49.8   | 46.6   | 46.6   |
| 87.5°  | 37.0   | 24.1   | 22.5   | 20.9   | 22.5   |
| 90°    | 1.1    | 5.0    | 7.9    | 10.0   | 10.7   |
| 92.5°  | 5.4    | 4.6    | 7.5    | 9.6    | 9.6    |
| 95°    | 19.6   | 7.5    | 7.9    | 10.0   | 10.4   |
| 97.5°  | 37.5   | 45.3   | 7.9    | 9.6    | 10.0   |
| 100°   | 58.6   | 65.0   | 15.7   | 9.6    | 10.0   |
| 102.5° | 82.1   | 86.4   | 90.7   | 10.4   | 10.4   |
| 105°   | 107.5  | 109.6  | 111.4  | 114.6  | 101.7  |
| 107.5° | 130.7  | 131.7  | 134.2  | 136.0  | 137.4  |
| 110°   | 154.2  | 155.3  | 157.4  | 158.2  | 159.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 177.1 | 179.2 | 179.9 | 179.6 | 181.0 |
| 115°   | 200.6 | 201.7 | 201.4 | 202.1 | 202.1 |
| 117.5° | 221.7 | 223.1 | 224.2 | 223.8 | 223.8 |
| 120°   | 243.1 | 244.6 | 244.2 | 244.9 | 244.2 |
| 122.5° | 263.1 | 263.8 | 264.5 | 264.9 | 264.2 |
| 125°   | 282.0 | 283.5 | 282.8 | 283.8 | 284.2 |
| 127.5° | 300.2 | 300.6 | 302.4 | 302.0 | 301.7 |
| 130°   | 317.7 | 318.1 | 319.2 | 319.5 | 319.5 |
| 132.5° | 333.8 | 334.5 | 335.9 | 336.3 | 335.9 |
| 135°   | 349.9 | 349.5 | 350.9 | 351.7 | 352.4 |
| 137.5° | 364.2 | 364.2 | 365.9 | 366.7 | 366.3 |
| 140°   | 378.1 | 378.8 | 379.5 | 380.6 | 380.9 |
| 142.5° | 390.6 | 392.0 | 392.4 | 393.1 | 393.1 |
| 145°   | 403.4 | 404.5 | 404.5 | 404.9 | 405.6 |
| 147.5° | 413.4 | 415.6 | 415.2 | 415.6 | 415.9 |
| 150°   | 424.5 | 425.9 | 425.6 | 425.6 | 425.9 |
| 152.5° | 433.8 | 434.8 | 434.1 | 434.8 | 434.5 |
| 155°   | 442.3 | 442.7 | 441.6 | 443.1 | 442.0 |
| 157.5° | 449.8 | 449.8 | 448.4 | 450.2 | 448.4 |
| 160°   | 456.3 | 455.2 | 454.8 | 457.0 | 454.8 |
| 162.5° | 462.0 | 460.5 | 460.2 | 462.3 | 459.8 |
| 165°   | 466.6 | 464.8 | 464.8 | 467.7 | 464.5 |
| 167.5° | 470.5 | 468.8 | 468.4 | 471.6 | 468.0 |
| 170°   | 473.8 | 471.6 | 472.0 | 474.8 | 471.3 |
| 172.5° | 475.9 | 473.8 | 474.1 | 477.0 | 473.0 |
| 175°   | 477.3 | 475.2 | 475.5 | 478.8 | 474.5 |
| 177.5° | 478.4 | 475.9 | 476.6 | 479.5 | 475.2 |
| 180°   | 477.3 | 477.3 | 477.3 | 477.3 | 477.3 |

(END OF REPORT)