

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: P999367

Luminaire Tested: SA2XXRDIP-B1005D530UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P999367  
REPORT IS A COMBINATION OF REPORTS P987918 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-B1005D530UB30-4F0-XX-W2A-F1  
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}  
{m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

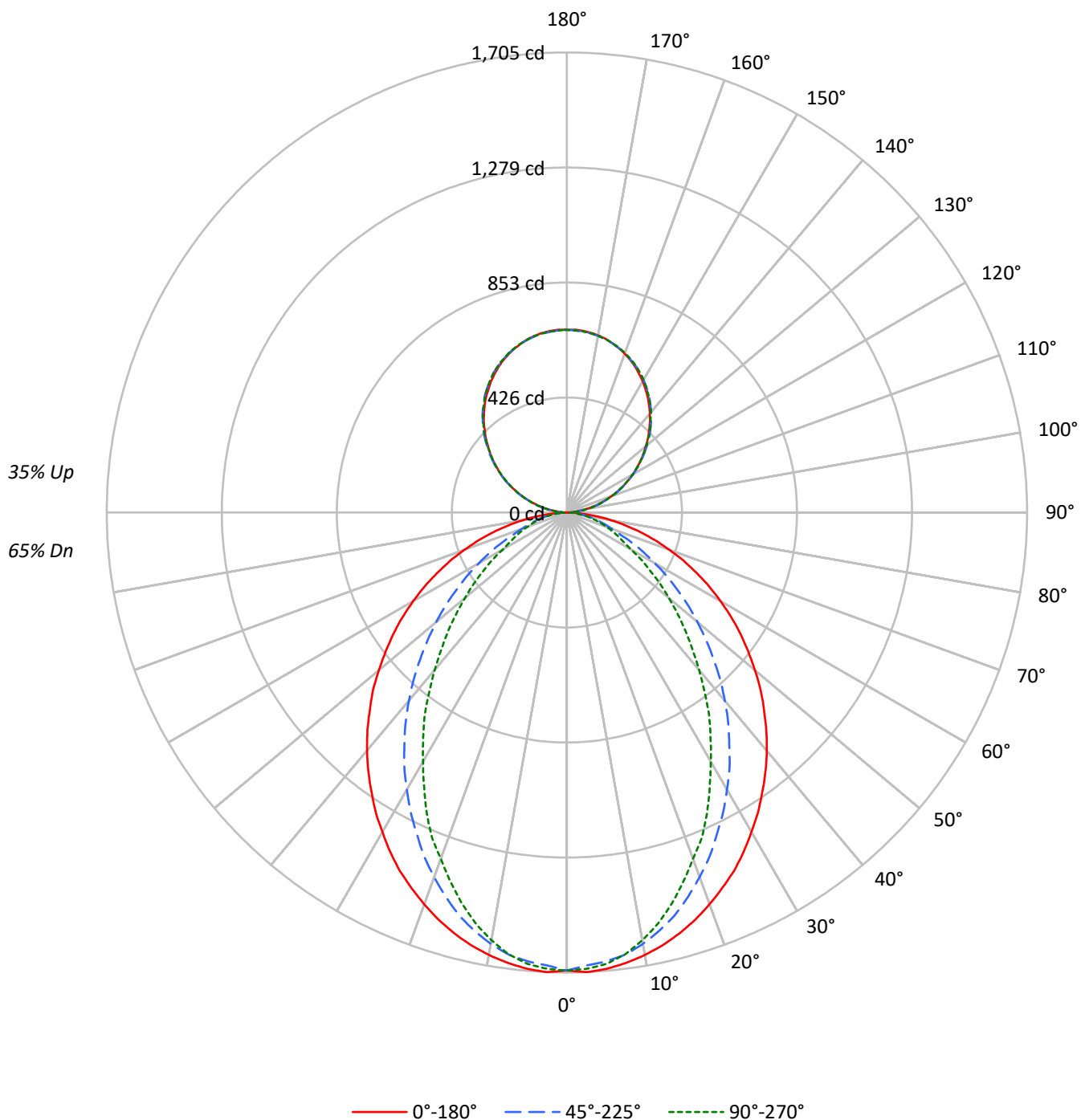
Lumens per Lamp: N/A  
Luminaire Lumens: 5386.0 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 76.7  
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

TEST NUMBER: P999367

CATALOG NUMBER: SA2XXRDIP-B1005D530UB30-4F0-XX-W2A-F1

### Luminous Intensity Polar Plot



TEST NUMBER: P999367

CATALOG NUMBER: SA2XXRDIP-B1005D530UB30-4F0-XX-W2A-F1

**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 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 80 | 80 | 80 | 70 | 70 | 70 |
| 1   | 102 | 98  | 94  | 90  | 96  | 92  | 89  | 86  | 81 | 79 | 77 | 72 | 70 | 68 | 63 | 61 | 60 |
| 2   | 93  | 86  | 80  | 75  | 87  | 81  | 76  | 71  | 72 | 68 | 64 | 64 | 61 | 58 | 56 | 54 | 52 |
| 3   | 85  | 76  | 69  | 63  | 80  | 72  | 66  | 60  | 64 | 59 | 55 | 57 | 53 | 50 | 50 | 47 | 45 |
| 4   | 79  | 68  | 60  | 54  | 74  | 64  | 57  | 52  | 57 | 52 | 47 | 51 | 47 | 43 | 45 | 42 | 39 |
| 5   | 72  | 61  | 53  | 47  | 68  | 58  | 51  | 45  | 52 | 46 | 41 | 46 | 42 | 38 | 41 | 37 | 34 |
| 6   | 67  | 55  | 47  | 41  | 63  | 52  | 45  | 40  | 47 | 41 | 37 | 42 | 37 | 34 | 38 | 34 | 31 |
| 7   | 62  | 50  | 42  | 36  | 58  | 47  | 40  | 35  | 43 | 37 | 33 | 39 | 34 | 30 | 34 | 31 | 28 |
| 8   | 58  | 46  | 38  | 33  | 54  | 43  | 36  | 31  | 39 | 33 | 29 | 35 | 31 | 27 | 32 | 28 | 25 |
| 9   | 54  | 42  | 34  | 29  | 51  | 40  | 33  | 28  | 36 | 30 | 26 | 33 | 28 | 25 | 29 | 26 | 23 |
| 10  | 51  | 39  | 31  | 27  | 48  | 37  | 30  | 26  | 34 | 28 | 24 | 30 | 26 | 22 | 27 | 24 | 21 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 26869 | 26869 | 26869 |
| 5°  | 26912 | 25563 | 25373 |
| 10° | 26648 | 24245 | 23445 |
| 15° | 26282 | 22689 | 21246 |
| 20° | 25798 | 20919 | 18947 |
| 25° | 25301 | 19103 | 16843 |
| 30° | 24634 | 17336 | 14546 |
| 35° | 23981 | 15553 | 12573 |
| 40° | 23317 | 13801 | 10541 |
| 45° | 22545 | 11994 | 8768  |
| 50° | 21747 | 10251 | 7139  |
| 55° | 20917 | 8508  | 5668  |
| 60° | 19952 | 6805  | 4287  |
| 65° | 18841 | 5188  | 3486  |
| 70° | 17496 | 3764  | 2772  |
| 75° | 15814 | 2871  | 2117  |
| 80° | 13365 | 1942  | 1421  |
| 85° | 9337  | 890   | 687   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22545 cd/sqm

TEST NUMBER: P999367

CATALOG NUMBER: SA2XXRDIP-B1005D530UB30-4F0-XX-W2A-F1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 159.1  | 3.0       |
| 10°-20°   | 436.7  | 8.1       |
| 20°-30°   | 613.1  | 11.4      |
| 30°-40°   | 668.4  | 12.4      |
| 40°-50°   | 614.3  | 11.4      |
| 50°-60°   | 482.4  | 9.0       |
| 60°-70°   | 314.0  | 5.8       |
| 70°-80°   | 161.7  | 3.0       |
| 80°-90°   | 43.2   | 0.8       |
| 90°-100°  | 41.9   | 0.8       |
| 100°-110° | 133.2  | 2.5       |
| 110°-120° | 227.8  | 4.2       |
| 120°-130° | 299.7  | 5.6       |
| 130°-140° | 336.4  | 6.2       |
| 140°-150° | 329.9  | 6.1       |
| 150°-160° | 276.7  | 5.1       |
| 160°-170° | 183.5  | 3.4       |
| 170°-180° | 64.1   | 1.2       |
| 0°-30°    | 1209.0 | 22.4      |
| 0°-40°    | 1877.3 | 34.9      |
| 0°-60°    | 2974.0 | 55.2      |
| 0°-90°    | 3492.9 | 64.9      |
| 90°-120°  | 402.9  | 7.5       |
| 90°-150°  | 1368.8 | 25.4      |
| 90°-180°  | 1893.0 | 35.1      |
| 0°-180°   | 5386.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1697 | 1697  | 1697 | 1697  | 1697 |      |
| 5°   | 1697 | 1690  | 1670 | 1684  | 1679 | 161  |
| 15°  | 1614 | 1598  | 1545 | 1516  | 1501 | 455  |
| 25°  | 1466 | 1416  | 1315 | 1252  | 1229 | 674  |
| 35°  | 1263 | 1184  | 1049 | 952   | 919  | 790  |
| 45°  | 1032 | 929   | 768  | 659   | 622  | 797  |
| 55°  | 785  | 665   | 499  | 407   | 378  | 701  |
| 65°  | 530  | 406   | 267  | 215   | 210  | 525  |
| 75°  | 283  | 175   | 123  | 112   | 111  | 299  |
| 85°  | 66   | 34    | 29   | 29    | 29   | 76   |
| 90°  | 1    | 7     | 20   | 19    | 19   | 5    |
| 95°  | 30   | 35    | 37   | 37    | 35   | 33   |
| 105° | 123  | 125   | 126  | 127   | 127  | 130  |
| 115° | 229  | 232   | 231  | 230   | 229  | 226  |
| 125° | 333  | 338   | 336  | 334   | 334  | 297  |
| 135° | 430  | 437   | 438  | 437   | 435  | 332  |
| 145° | 522  | 526   | 530  | 530   | 528  | 326  |
| 155° | 597  | 599   | 600  | 603   | 602  | 275  |
| 165° | 650  | 649   | 649  | 653   | 650  | 183  |
| 175° | 676  | 674   | 673  | 677   | 674  | 64   |
| 180° | 677  | 677   | 677  | 677   | 677  |      |

TEST NUMBER: P999367

CATALOG NUMBER: SA2XXRDIP-B1005D530UB30-4F0-XX-W2A-F1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1697.4 | 1697.4 | 1697.4 | 1697.4 | 1697.4 |
| 2.5°   | 1705.1 | 1697.4 | 1680.5 | 1695.9 | 1692.8 |
| 5°     | 1697.4 | 1689.8 | 1669.8 | 1683.6 | 1679.0 |
| 7.5°   | 1683.6 | 1674.4 | 1652.9 | 1659.0 | 1651.4 |
| 10°    | 1665.2 | 1654.4 | 1623.7 | 1619.1 | 1609.9 |
| 12.5°  | 1642.1 | 1628.3 | 1586.8 | 1577.6 | 1560.7 |
| 15°    | 1614.5 | 1597.6 | 1545.4 | 1516.2 | 1500.8 |
| 17.5°  | 1582.2 | 1557.6 | 1493.1 | 1459.3 | 1434.8 |
| 20°    | 1545.4 | 1514.6 | 1437.8 | 1399.4 | 1365.6 |
| 22.5°  | 1505.4 | 1470.1 | 1381.0 | 1328.8 | 1305.7 |
| 25°    | 1465.5 | 1416.3 | 1314.9 | 1252.0 | 1228.9 |
| 27.5°  | 1417.9 | 1365.6 | 1253.5 | 1181.3 | 1146.0 |
| 30°    | 1367.2 | 1308.8 | 1185.9 | 1107.6 | 1066.1 |
| 32.5°  | 1318.0 | 1247.3 | 1121.4 | 1029.2 | 990.8  |
| 35°    | 1262.7 | 1184.4 | 1049.2 | 952.4  | 918.6  |
| 37.5°  | 1208.9 | 1124.5 | 981.6  | 875.6  | 837.2  |
| 40°    | 1152.1 | 1059.9 | 910.9  | 801.9  | 761.9  |
| 42.5°  | 1093.7 | 995.4  | 840.3  | 726.6  | 688.2  |
| 45°    | 1032.3 | 929.4  | 768.1  | 659.0  | 622.1  |
| 47.5°  | 973.9  | 864.8  | 698.9  | 589.9  | 556.1  |
| 50°    | 909.4  | 800.3  | 631.4  | 525.4  | 493.1  |
| 52.5°  | 846.4  | 731.2  | 566.8  | 465.5  | 436.3  |
| 55°    | 785.0  | 665.2  | 499.2  | 407.1  | 377.9  |
| 57.5°  | 722.0  | 599.1  | 439.3  | 353.3  | 328.7  |
| 60°    | 657.5  | 534.6  | 376.4  | 298.0  | 273.4  |
| 62.5°  | 594.5  | 471.6  | 322.6  | 248.9  | 236.6  |
| 65°    | 530.0  | 405.5  | 267.3  | 215.1  | 210.5  |
| 67.5°  | 468.5  | 344.1  | 215.1  | 188.9  | 184.3  |
| 70°    | 404.0  | 284.2  | 178.2  | 162.8  | 156.7  |
| 72.5°  | 342.6  | 228.9  | 149.0  | 136.7  | 133.6  |
| 75°    | 282.7  | 175.1  | 122.9  | 112.1  | 110.6  |
| 77.5°  | 222.7  | 124.4  | 96.8   | 90.6   | 87.6   |
| 80°    | 167.4  | 89.1   | 73.7   | 67.6   | 67.6   |
| 82.5°  | 116.7  | 59.9   | 50.7   | 47.6   | 47.6   |
| 85°    | 66.1   | 33.8   | 29.2   | 29.2   | 29.2   |
| 87.5°  | 24.6   | 12.3   | 12.3   | 10.8   | 10.8   |
| 90°    | 0.6    | 7.4    | 20.0   | 18.9   | 19.4   |
| 92.5°  | 12.6   | 17.1   | 17.7   | 18.3   | 18.3   |
| 95°    | 29.7   | 35.4   | 36.6   | 36.6   | 35.4   |
| 97.5°  | 49.7   | 54.9   | 57.1   | 57.1   | 57.1   |
| 100°   | 72.6   | 77.1   | 78.9   | 78.9   | 78.3   |
| 102.5° | 96.6   | 100.0  | 102.3  | 102.9  | 102.3  |
| 105°   | 122.9  | 124.6  | 125.7  | 126.9  | 126.9  |
| 107.5° | 149.1  | 151.4  | 151.4  | 152.0  | 149.1  |
| 110°   | 174.3  | 177.7  | 177.7  | 177.7  | 176.0  |

TEST NUMBER: P999367

CATALOG NUMBER: SA2XXRDIP-B1005D530UB30-4F0-XX-W2A-F1

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 201.7 | 205.1 | 204.6 | 202.8 | 201.7 |
| 115°   | 228.6 | 232.0 | 230.8 | 230.3 | 228.6 |
| 117.5° | 255.4 | 260.0 | 257.1 | 255.4 | 253.7 |
| 120°   | 282.3 | 286.8 | 282.3 | 282.3 | 280.6 |
| 122.5° | 306.8 | 312.6 | 309.7 | 308.0 | 306.8 |
| 125°   | 332.6 | 337.7 | 336.0 | 334.3 | 333.7 |
| 127.5° | 357.7 | 364.0 | 361.7 | 359.4 | 357.7 |
| 130°   | 381.1 | 388.6 | 387.4 | 386.3 | 384.0 |
| 132.5° | 407.4 | 413.1 | 413.7 | 410.8 | 409.1 |
| 135°   | 430.3 | 436.6 | 437.7 | 437.1 | 435.4 |
| 137.5° | 455.4 | 460.5 | 461.7 | 461.1 | 458.8 |
| 140°   | 477.7 | 482.8 | 485.7 | 485.7 | 483.4 |
| 142.5° | 500.5 | 505.7 | 507.4 | 508.0 | 505.7 |
| 145°   | 522.3 | 526.3 | 529.7 | 530.3 | 528.0 |
| 147.5° | 541.7 | 546.8 | 549.1 | 550.3 | 548.0 |
| 150°   | 561.7 | 565.1 | 567.4 | 569.1 | 567.4 |
| 152.5° | 579.4 | 582.8 | 585.7 | 588.0 | 585.7 |
| 155°   | 597.1 | 598.8 | 600.5 | 603.4 | 601.7 |
| 157.5° | 612.5 | 613.7 | 614.8 | 618.8 | 616.0 |
| 160°   | 626.3 | 627.4 | 628.0 | 631.4 | 629.1 |
| 162.5° | 638.8 | 638.8 | 639.4 | 643.4 | 640.5 |
| 165°   | 649.7 | 649.1 | 649.1 | 653.1 | 650.3 |
| 167.5° | 659.4 | 657.7 | 657.7 | 661.7 | 658.8 |
| 170°   | 666.8 | 665.1 | 664.5 | 668.5 | 665.1 |
| 172.5° | 672.0 | 670.3 | 669.7 | 673.7 | 670.3 |
| 175°   | 676.0 | 674.3 | 673.1 | 677.1 | 673.7 |
| 177.5° | 678.3 | 676.5 | 675.4 | 678.8 | 675.4 |
| 180°   | 677.1 | 677.1 | 677.1 | 677.1 | 677.1 |

(END OF REPORT)