

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: P999399

Luminaire Tested: SA2XXRDIP-B1005D725UB2750-4F0-XX-W2A-F\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P999399  
REPORT IS A COMBINATION OF REPORTS P987950 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-B1005D725UB2750-4F0-XX-W2A-F\_3000K  
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}  
{m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

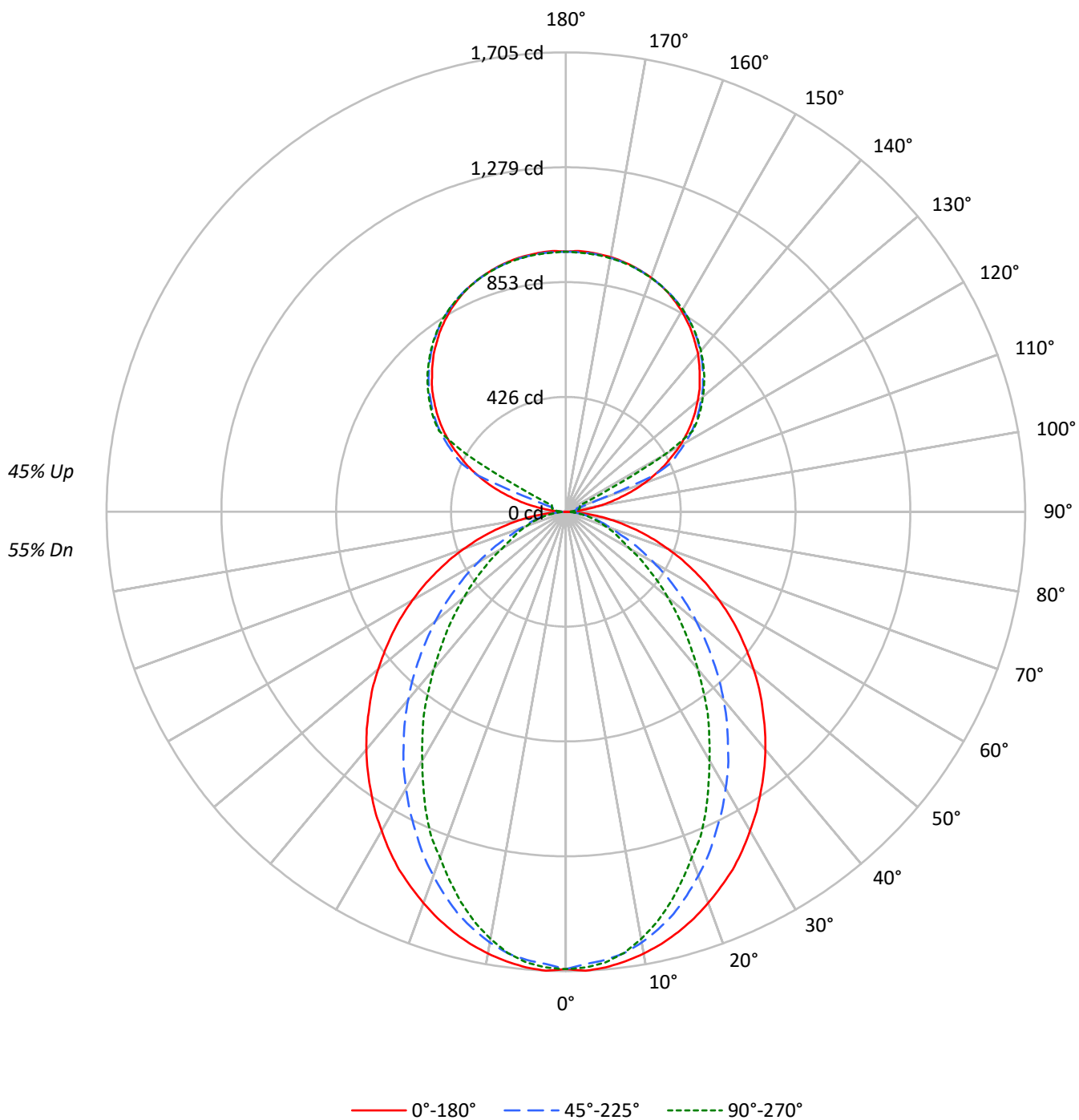
Lumens per Lamp: N/A  
Luminaire Lumens: 6323.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 82.4  
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   | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 |
| 1   | 99  | 95  | 92  | 88  | 92  | 89  | 86  | 83  | 76 | 74 | 72 | 65 | 63 | 62 | 55 | 54 | 53 |
| 2   | 91  | 84  | 78  | 73  | 84  | 78  | 73  | 69  | 68 | 64 | 60 | 58 | 55 | 53 | 49 | 47 | 45 |
| 3   | 83  | 74  | 67  | 61  | 77  | 69  | 63  | 58  | 60 | 55 | 51 | 52 | 48 | 45 | 44 | 41 | 39 |
| 4   | 77  | 66  | 58  | 52  | 71  | 62  | 55  | 50  | 54 | 49 | 44 | 46 | 42 | 39 | 39 | 36 | 34 |
| 5   | 71  | 59  | 51  | 45  | 65  | 55  | 48  | 43  | 48 | 43 | 39 | 42 | 38 | 34 | 36 | 33 | 30 |
| 6   | 65  | 53  | 45  | 40  | 60  | 50  | 43  | 38  | 44 | 38 | 34 | 38 | 34 | 30 | 33 | 29 | 27 |
| 7   | 60  | 48  | 41  | 35  | 56  | 45  | 38  | 33  | 40 | 34 | 30 | 35 | 30 | 27 | 30 | 27 | 24 |
| 8   | 56  | 44  | 36  | 31  | 52  | 41  | 35  | 30  | 37 | 31 | 27 | 32 | 28 | 24 | 28 | 24 | 22 |
| 9   | 52  | 40  | 33  | 28  | 49  | 38  | 31  | 27  | 34 | 28 | 24 | 30 | 25 | 22 | 26 | 22 | 20 |
| 10  | 49  | 37  | 30  | 25  | 46  | 35  | 29  | 24  | 31 | 26 | 22 | 27 | 23 | 20 | 24 | 20 | 18 |

**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

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 159.1  | 2.5       |
| 10°-20°   | 436.7  | 6.9       |
| 20°-30°   | 613.1  | 9.7       |
| 30°-40°   | 668.4  | 10.6      |
| 40°-50°   | 614.3  | 9.7       |
| 50°-60°   | 482.4  | 7.6       |
| 60°-70°   | 314.0  | 5.0       |
| 70°-80°   | 161.7  | 2.6       |
| 80°-90°   | 43.0   | 0.7       |
| 90°-100°  | 31.8   | 0.5       |
| 100°-110° | 118.7  | 1.9       |
| 110°-120° | 314.7  | 5.0       |
| 120°-130° | 522.0  | 8.3       |
| 130°-140° | 554.5  | 8.8       |
| 140°-150° | 515.4  | 8.2       |
| 150°-160° | 414.3  | 6.6       |
| 160°-170° | 267.0  | 4.2       |
| 170°-180° | 91.9   | 1.5       |
| 0°-30°    | 1209.0 | 19.1      |
| 0°-40°    | 1877.3 | 29.7      |
| 0°-60°    | 2974.0 | 47.0      |
| 0°-90°    | 3492.7 | 55.2      |
| 90°-120°  | 465.3  | 7.4       |
| 90°-150°  | 2057.1 | 32.5      |
| 90°-180°  | 2830.0 | 44.8      |
| 0°-180°   | 6323.0 | 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    | 8     | 14   | 18    | 19   | 6    |
| 95°  | 45   | 22    | 27   | 31    | 30   | 54   |
| 105° | 212  | 233   | 43   | 50    | 53   | 227  |
| 115° | 402  | 414   | 431  | 108   | 57   | 395  |
| 125° | 568  | 577   | 590  | 595   | 597  | 507  |
| 135° | 703  | 714   | 720  | 727   | 726  | 543  |
| 145° | 815  | 814   | 826  | 831   | 828  | 510  |
| 155° | 898  | 891   | 900  | 904   | 898  | 414  |
| 165° | 946  | 942   | 944  | 949   | 944  | 267  |
| 175° | 968  | 963   | 964  | 969   | 962  | 92   |
| 180° | 965  | 965   | 965  | 965   | 965  |      |

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**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°    | 0.7    | 8.4    | 14.0   | 17.5   | 18.9   |
| 92.5°  | 17.5   | 14.7   | 16.8   | 18.2   | 18.9   |
| 95°    | 45.4   | 22.4   | 27.2   | 30.7   | 30.0   |
| 97.5°  | 81.7   | 24.5   | 35.6   | 37.7   | 38.4   |
| 100°   | 123.6  | 27.9   | 39.8   | 45.4   | 46.8   |
| 102.5° | 169.8  | 168.4  | 41.2   | 48.9   | 51.0   |
| 105°   | 212.4  | 233.3  | 42.6   | 50.3   | 53.1   |
| 107.5° | 262.0  | 279.4  | 44.0   | 51.7   | 54.5   |
| 110°   | 309.5  | 324.1  | 122.3  | 52.4   | 55.2   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 354.2 | 366.8 | 354.9 | 53.8  | 55.9  |
| 115°   | 401.7 | 413.6 | 431.0 | 107.6 | 57.3  |
| 117.5° | 442.9 | 456.9 | 468.7 | 368.8 | 185.8 |
| 120°   | 489.0 | 499.5 | 512.1 | 520.4 | 426.1 |
| 122.5° | 528.1 | 539.3 | 553.3 | 557.5 | 558.2 |
| 125°   | 567.9 | 577.0 | 590.3 | 595.2 | 597.3 |
| 127.5° | 604.3 | 614.0 | 624.5 | 631.5 | 632.2 |
| 130°   | 638.5 | 649.7 | 657.4 | 665.0 | 664.3 |
| 132.5° | 673.4 | 682.5 | 690.2 | 696.5 | 695.8 |
| 135°   | 702.8 | 713.9 | 720.2 | 727.2 | 725.8 |
| 137.5° | 733.5 | 741.9 | 748.9 | 755.9 | 753.8 |
| 140°   | 763.5 | 769.1 | 776.8 | 783.1 | 779.6 |
| 142.5° | 788.7 | 793.6 | 802.7 | 808.3 | 804.8 |
| 145°   | 815.2 | 814.5 | 826.4 | 831.3 | 827.8 |
| 147.5° | 838.3 | 836.2 | 848.1 | 851.6 | 848.8 |
| 150°   | 860.6 | 855.8 | 866.9 | 871.1 | 867.6 |
| 152.5° | 879.5 | 873.9 | 884.4 | 888.6 | 883.7 |
| 155°   | 897.7 | 891.4 | 899.8 | 904.0 | 898.4 |
| 157.5° | 912.3 | 906.7 | 913.0 | 917.9 | 912.3 |
| 160°   | 924.9 | 920.7 | 924.9 | 929.1 | 924.2 |
| 162.5° | 936.1 | 931.9 | 935.4 | 940.3 | 934.0 |
| 165°   | 945.9 | 941.7 | 943.8 | 948.7 | 943.8 |
| 167.5° | 953.6 | 949.4 | 951.5 | 956.3 | 950.1 |
| 170°   | 959.8 | 955.6 | 957.0 | 961.9 | 955.6 |
| 172.5° | 964.0 | 959.8 | 961.2 | 966.1 | 959.8 |
| 175°   | 967.5 | 962.6 | 964.0 | 968.9 | 961.9 |
| 177.5° | 968.9 | 964.0 | 964.7 | 969.6 | 963.3 |
| 180°   | 965.4 | 965.4 | 965.4 | 965.4 | 965.4 |

(END OF REPORT)