

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: P1009759

Luminaire Tested: S122RDIP-B1005D725UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009759  
REPORT IS A COMBINATION OF REPORTS P987965 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-B1005D725UB35-4F0-XX-W2A-F4  
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}  
{m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

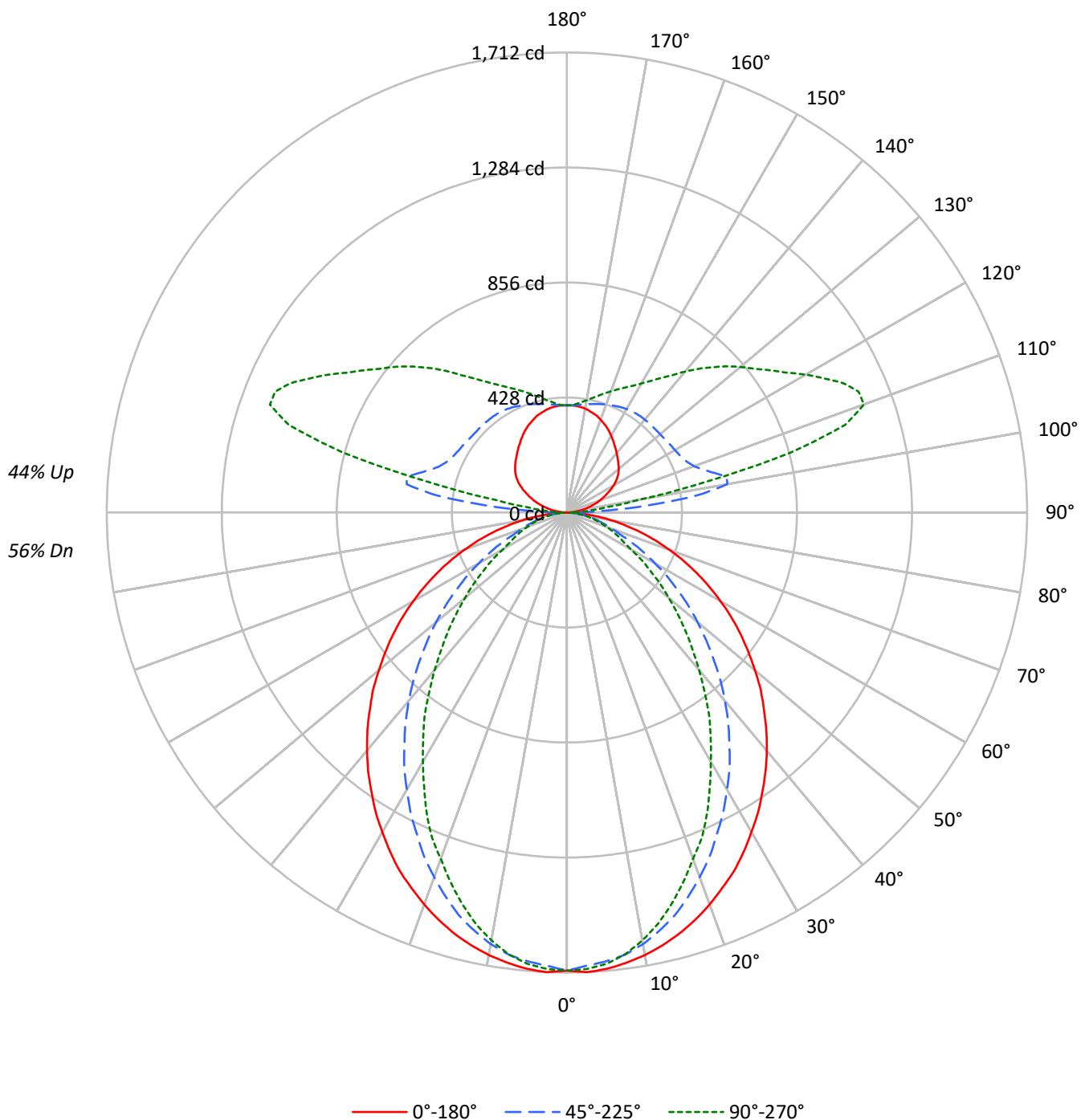
Lumens per Lamp: N/A  
Luminaire Lumens: 6288.2 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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

TEST NUMBER: P1009759

CATALOG NUMBER: S122RDIP-B1005D725UB35-4F0-XX-W2A-F4

### Luminous Intensity Polar Plot



TEST NUMBER: P1009759

CATALOG NUMBER: S122RDIP-B1005D725UB35-4F0-XX-W2A-F4

**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   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 73 | 73 | 73 | 61 | 61 | 61 |
| 1   | 100 | 95  | 92  | 88  | 92  | 89  | 86  | 83  | 77 | 74 | 72 | 65 | 64 | 62 | 55 | 54 | 53 |
| 2   | 91  | 84  | 78  | 73  | 85  | 78  | 73  | 69  | 68 | 64 | 61 | 58 | 55 | 53 | 49 | 47 | 45 |
| 3   | 84  | 74  | 67  | 62  | 77  | 69  | 63  | 58  | 60 | 56 | 52 | 52 | 48 | 45 | 44 | 41 | 39 |
| 4   | 77  | 66  | 58  | 53  | 71  | 62  | 55  | 50  | 54 | 49 | 45 | 47 | 43 | 39 | 40 | 37 | 34 |
| 5   | 71  | 59  | 51  | 45  | 66  | 56  | 49  | 43  | 49 | 43 | 39 | 42 | 38 | 34 | 36 | 33 | 30 |
| 6   | 65  | 53  | 45  | 40  | 61  | 50  | 43  | 38  | 44 | 38 | 34 | 38 | 34 | 31 | 33 | 30 | 27 |
| 7   | 60  | 48  | 41  | 35  | 56  | 46  | 39  | 34  | 40 | 34 | 30 | 35 | 31 | 27 | 30 | 27 | 24 |
| 8   | 56  | 44  | 37  | 31  | 52  | 42  | 35  | 30  | 37 | 31 | 27 | 32 | 28 | 24 | 28 | 24 | 22 |
| 9   | 53  | 40  | 33  | 28  | 49  | 38  | 31  | 27  | 34 | 28 | 25 | 30 | 25 | 22 | 26 | 22 | 20 |
| 10  | 49  | 37  | 30  | 25  | 46  | 35  | 29  | 24  | 31 | 26 | 22 | 28 | 23 | 20 | 24 | 21 | 18 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 26984 | 26984 | 26984 |
| 5°  | 27028 | 25673 | 25482 |
| 10° | 26762 | 24349 | 23545 |
| 15° | 26394 | 22786 | 21338 |
| 20° | 25908 | 21009 | 19029 |
| 25° | 25410 | 19186 | 16916 |
| 30° | 24739 | 17410 | 14609 |
| 35° | 24083 | 15619 | 12627 |
| 40° | 23419 | 13860 | 10586 |
| 45° | 22642 | 12045 | 8806  |
| 50° | 21840 | 10295 | 7169  |
| 55° | 21005 | 8545  | 5692  |
| 60° | 20037 | 6834  | 4306  |
| 65° | 18919 | 5209  | 3501  |
| 70° | 17570 | 3780  | 2785  |
| 75° | 15881 | 2882  | 2126  |
| 80° | 13429 | 1953  | 1427  |
| 85° | 9365  | 893   | 689   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22642 cd/sqm

TEST NUMBER: P1009759

CATALOG NUMBER: S122RDIP-B1005D725UB35-4F0-XX-W2A-F4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 159.8  | 2.5       |
| 10°-20°   | 438.6  | 7.0       |
| 20°-30°   | 615.8  | 9.8       |
| 30°-40°   | 671.2  | 10.7      |
| 40°-50°   | 616.9  | 9.8       |
| 50°-60°   | 484.5  | 7.7       |
| 60°-70°   | 315.4  | 5.0       |
| 70°-80°   | 162.4  | 2.6       |
| 80°-90°   | 44.0   | 0.7       |
| 90°-100°  | 161.6  | 2.6       |
| 100°-110° | 546.4  | 8.7       |
| 110°-120° | 574.3  | 9.1       |
| 120°-130° | 472.3  | 7.5       |
| 130°-140° | 379.5  | 6.0       |
| 140°-150° | 286.7  | 4.6       |
| 150°-160° | 201.6  | 3.2       |
| 160°-170° | 118.7  | 1.9       |
| 170°-180° | 38.6   | 0.6       |
| 0°-30°    | 1214.2 | 19.3      |
| 0°-40°    | 1885.4 | 30.0      |
| 0°-60°    | 2986.8 | 47.5      |
| 0°-90°    | 3508.5 | 55.8      |
| 90°-120°  | 1282.3 | 20.4      |
| 90°-150°  | 2420.8 | 38.5      |
| 90°-180°  | 2780.0 | 44.2      |
| 0°-180°   | 6288.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1705 | 1705  | 1705 | 1705  | 1705 |      |
| 5°   | 1705 | 1697  | 1677 | 1691  | 1686 | 162  |
| 15°  | 1621 | 1604  | 1552 | 1523  | 1507 | 457  |
| 25°  | 1472 | 1422  | 1321 | 1257  | 1234 | 677  |
| 35°  | 1268 | 1190  | 1054 | 956   | 923  | 794  |
| 45°  | 1037 | 933   | 771  | 662   | 625  | 801  |
| 55°  | 788  | 668   | 501  | 409   | 380  | 704  |
| 65°  | 532  | 407   | 268  | 216   | 211  | 528  |
| 75°  | 284  | 176   | 123  | 113   | 111  | 300  |
| 85°  | 66   | 34    | 29   | 29    | 29   | 76   |
| 90°  | 1    | 10    | 26   | 25    | 25   | 5    |
| 95°  | 27   | 66    | 300  | 113   | 87   | 28   |
| 105° | 94   | 141   | 568  | 1015  | 864  | 99   |
| 115° | 165  | 208   | 475  | 981   | 1137 | 163  |
| 125° | 230  | 272   | 457  | 795   | 922  | 204  |
| 135° | 270  | 322   | 452  | 668   | 764  | 208  |
| 145° | 308  | 354   | 449  | 558   | 610  | 193  |
| 155° | 350  | 378   | 436  | 493   | 513  | 161  |
| 165° | 382  | 393   | 418  | 443   | 450  | 108  |
| 175° | 398  | 398   | 402  | 407   | 406  | 38   |
| 180° | 399  | 399   | 399  | 399   | 399  |      |

TEST NUMBER: P1009759

CATALOG NUMBER: S122RDIP-B1005D725UB35-4F0-XX-W2A-F4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1704.7 | 1704.7 | 1704.7 | 1704.7 | 1704.7 |
| 2.5°   | 1712.4 | 1704.7 | 1687.8 | 1703.2 | 1700.1 |
| 5°     | 1704.7 | 1697.0 | 1677.0 | 1690.8 | 1686.2 |
| 7.5°   | 1690.8 | 1681.6 | 1660.0 | 1666.2 | 1658.4 |
| 10°    | 1672.3 | 1661.5 | 1630.7 | 1626.1 | 1616.8 |
| 12.5°  | 1649.2 | 1635.3 | 1593.7 | 1584.4 | 1567.4 |
| 15°    | 1621.4 | 1604.5 | 1552.0 | 1522.7 | 1507.3 |
| 17.5°  | 1589.0 | 1564.3 | 1499.5 | 1465.6 | 1440.9 |
| 20°    | 1552.0 | 1521.1 | 1444.0 | 1405.4 | 1371.5 |
| 22.5°  | 1511.9 | 1476.4 | 1386.9 | 1334.5 | 1311.3 |
| 25°    | 1471.8 | 1422.4 | 1320.6 | 1257.3 | 1234.2 |
| 27.5°  | 1424.0 | 1371.5 | 1258.9 | 1186.4 | 1150.9 |
| 30°    | 1373.0 | 1314.4 | 1191.0 | 1112.3 | 1070.7 |
| 32.5°  | 1323.7 | 1252.7 | 1126.2 | 1033.6 | 995.1  |
| 35°    | 1268.1 | 1189.5 | 1053.7 | 956.5  | 922.6  |
| 37.5°  | 1214.1 | 1129.3 | 985.8  | 879.4  | 840.8  |
| 40°    | 1157.1 | 1064.5 | 914.8  | 805.3  | 765.2  |
| 42.5°  | 1098.4 | 999.7  | 843.9  | 729.7  | 691.1  |
| 45°    | 1036.7 | 933.4  | 771.4  | 661.8  | 624.8  |
| 47.5°  | 978.1  | 868.6  | 701.9  | 592.4  | 558.5  |
| 50°    | 913.3  | 803.8  | 634.1  | 527.6  | 495.2  |
| 52.5°  | 850.1  | 734.3  | 569.3  | 467.5  | 438.1  |
| 55°    | 788.3  | 668.0  | 501.4  | 408.8  | 379.5  |
| 57.5°  | 725.1  | 601.7  | 441.2  | 354.8  | 330.1  |
| 60°    | 660.3  | 536.9  | 378.0  | 299.3  | 274.6  |
| 62.5°  | 597.0  | 473.6  | 324.0  | 249.9  | 237.6  |
| 65°    | 532.2  | 407.3  | 268.4  | 216.0  | 211.4  |
| 67.5°  | 470.5  | 345.6  | 216.0  | 189.8  | 185.1  |
| 70°    | 405.7  | 285.4  | 179.0  | 163.5  | 157.4  |
| 72.5°  | 344.0  | 229.9  | 149.6  | 137.3  | 134.2  |
| 75°    | 283.9  | 175.9  | 123.4  | 112.6  | 111.1  |
| 77.5°  | 223.7  | 125.0  | 97.2   | 91.0   | 87.9   |
| 80°    | 168.2  | 89.5   | 74.1   | 67.9   | 67.9   |
| 82.5°  | 117.2  | 60.2   | 50.9   | 47.8   | 47.8   |
| 85°    | 66.3   | 33.9   | 29.3   | 29.3   | 29.3   |
| 87.5°  | 24.7   | 12.3   | 12.3   | 10.8   | 10.8   |
| 90°    | 0.8    | 10.4   | 26.1   | 24.9   | 25.3   |
| 92.5°  | 11.5   | 36.4   | 118.1  | 54.4   | 46.8   |
| 95°    | 26.8   | 65.9   | 300.5  | 113.4  | 87.4   |
| 97.5°  | 39.9   | 87.1   | 489.9  | 227.7  | 146.4  |
| 100°   | 59.0   | 106.6  | 605.7  | 453.5  | 274.5  |
| 102.5° | 76.7   | 124.2  | 609.5  | 766.7  | 535.2  |
| 105°   | 93.5   | 141.0  | 568.1  | 1015.4 | 864.1  |
| 107.5° | 111.9  | 158.0  | 529.8  | 1105.6 | 1085.6 |
| 110°   | 130.3  | 175.2  | 503.7  | 1091.0 | 1176.1 |



TEST NUMBER: P1009759

CATALOG NUMBER: S122RDIP-B1005D725UB35-4F0-XX-W2A-F4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 147.2 | 191.7 | 486.9 | 1041.6 | 1174.6 |
| 115°   | 164.8 | 208.2 | 475.4 | 981.0  | 1137.0 |
| 117.5° | 183.2 | 224.6 | 469.2 | 923.1  | 1080.3 |
| 120°   | 200.1 | 240.8 | 463.9 | 871.4  | 1025.8 |
| 122.5° | 216.2 | 257.2 | 460.8 | 831.1  | 969.1  |
| 125°   | 230.0 | 272.2 | 457.0 | 794.6  | 922.3  |
| 127.5° | 241.5 | 286.4 | 454.7 | 763.6  | 878.6  |
| 130°   | 251.5 | 299.0 | 453.1 | 732.2  | 842.6  |
| 132.5° | 260.7 | 311.2 | 452.4 | 699.6  | 805.0  |
| 135°   | 269.9 | 322.0 | 451.6 | 667.8  | 764.4  |
| 137.5° | 278.3 | 331.2 | 451.6 | 635.6  | 725.3  |
| 140°   | 288.3 | 339.6 | 450.8 | 607.2  | 684.7  |
| 142.5° | 298.2 | 346.5 | 450.8 | 580.0  | 644.0  |
| 145°   | 308.2 | 354.2 | 449.3 | 557.8  | 610.3  |
| 147.5° | 318.9 | 360.4 | 447.0 | 538.2  | 580.4  |
| 150°   | 329.7 | 366.5 | 444.7 | 521.4  | 554.3  |
| 152.5° | 340.4 | 372.6 | 440.9 | 507.2  | 532.1  |
| 155°   | 350.4 | 378.4 | 436.3 | 493.4  | 512.9  |
| 157.5° | 358.8 | 383.0 | 431.7 | 480.4  | 496.1  |
| 160°   | 367.2 | 387.6 | 427.1 | 467.3  | 480.0  |
| 162.5° | 375.7 | 391.0 | 423.2 | 455.0  | 464.6  |
| 165°   | 381.8 | 393.3 | 417.9 | 443.2  | 450.1  |
| 167.5° | 387.2 | 395.6 | 413.3 | 432.4  | 436.3  |
| 170°   | 392.5 | 396.8 | 409.4 | 422.4  | 424.0  |
| 172.5° | 395.6 | 397.9 | 404.8 | 413.6  | 414.0  |
| 175°   | 397.9 | 398.3 | 401.7 | 406.7  | 405.6  |
| 177.5° | 399.4 | 398.7 | 398.7 | 401.7  | 399.4  |
| 180°   | 398.7 | 398.7 | 398.7 | 398.7  | 398.7  |

(END OF REPORT)