

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: P1008322

Luminaire Tested: S122RDIP-B1005D530UB2750-4F0-XX-W2A-F\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008322  
REPORT IS A COMBINATION OF REPORTS P987912 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-B1005D530UB2750-4F0-XX-W2A-F\_4000K  
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}  
{m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

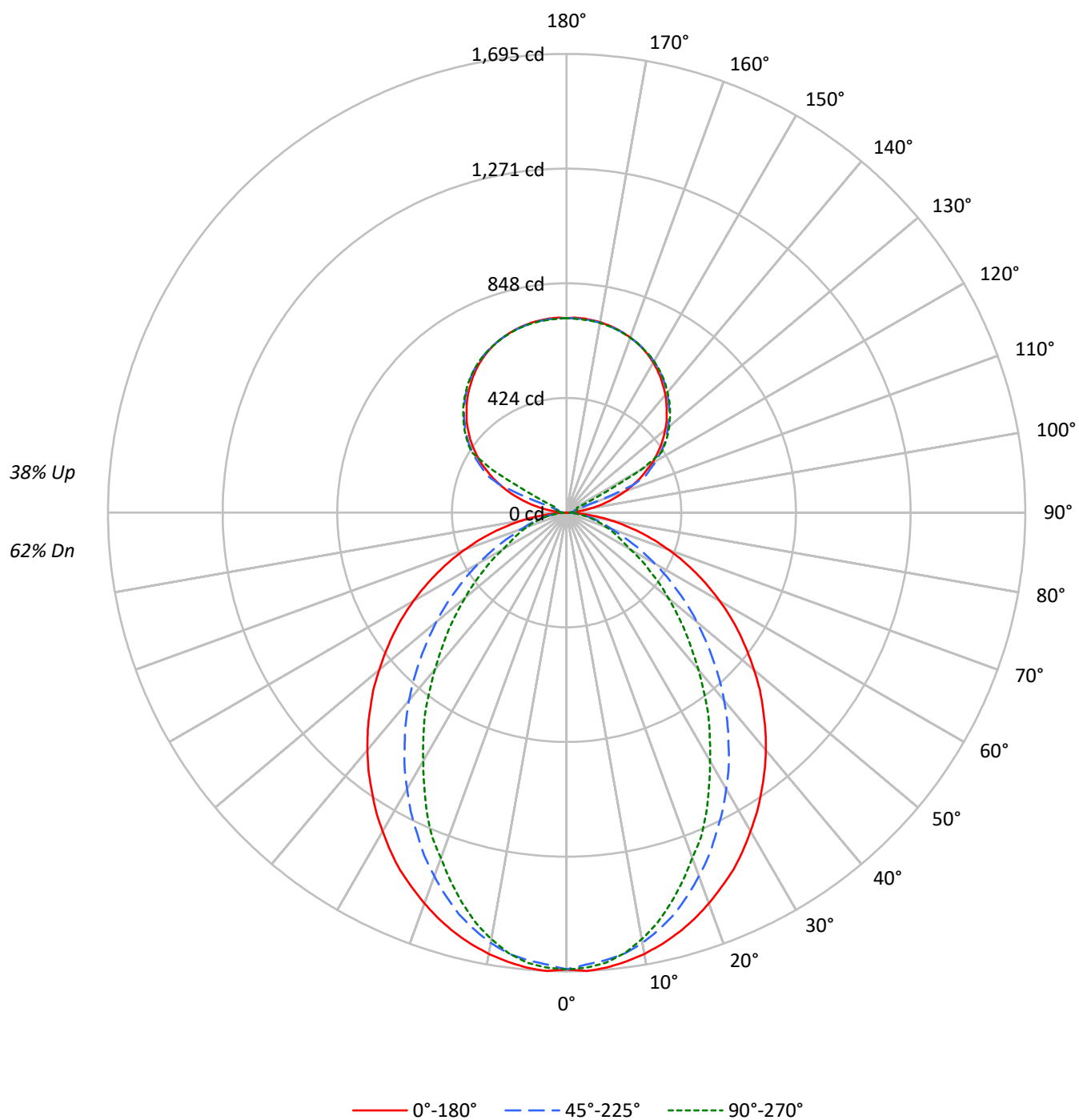
Lumens per Lamp: N/A  
Luminaire Lumens: 5579.0 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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: P1008322

CATALOG NUMBER: S122RDIP-B1005D530UB2750-4F0-XX-W2A-F\_4000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1008322

CATALOG NUMBER: S122RDIP-B1005D530UB2750-4F0-XX-W2A-F\_4000K

**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 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 67 | 67 | 67 |
| 1   | 101 | 97  | 93  | 90  | 95  | 91  | 88  | 85  | 80 | 78 | 75 | 70 | 68 | 66 | 60 | 59 | 58 | 58 | 58 | 54 |
| 2   | 93  | 85  | 79  | 74  | 87  | 80  | 75  | 71  | 71 | 67 | 63 | 62 | 59 | 56 | 54 | 52 | 50 | 50 | 46 | 46 |
| 3   | 85  | 76  | 68  | 63  | 79  | 71  | 65  | 60  | 63 | 58 | 54 | 55 | 52 | 48 | 48 | 46 | 43 | 43 | 40 | 40 |
| 4   | 78  | 67  | 60  | 54  | 73  | 64  | 57  | 51  | 56 | 51 | 47 | 50 | 46 | 42 | 44 | 40 | 38 | 38 | 34 | 34 |
| 5   | 72  | 60  | 52  | 47  | 67  | 57  | 50  | 45  | 51 | 45 | 41 | 45 | 41 | 37 | 40 | 36 | 33 | 33 | 30 | 30 |
| 6   | 66  | 55  | 47  | 41  | 62  | 52  | 44  | 39  | 46 | 40 | 36 | 41 | 36 | 33 | 36 | 32 | 30 | 30 | 27 | 27 |
| 7   | 62  | 50  | 42  | 36  | 58  | 47  | 40  | 35  | 42 | 36 | 32 | 38 | 33 | 29 | 33 | 29 | 27 | 27 | 24 | 24 |
| 8   | 57  | 45  | 37  | 32  | 54  | 43  | 36  | 31  | 39 | 33 | 29 | 34 | 30 | 26 | 31 | 27 | 24 | 24 | 22 | 22 |
| 9   | 54  | 41  | 34  | 29  | 50  | 39  | 33  | 28  | 36 | 30 | 26 | 32 | 27 | 24 | 28 | 25 | 22 | 22 | 20 | 20 |
| 10  | 50  | 38  | 31  | 26  | 47  | 36  | 30  | 25  | 33 | 27 | 24 | 30 | 25 | 22 | 26 | 23 | 20 | 20 | 18 | 18 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 26715 | 26715 | 26715 |
| 5°  | 26759 | 25416 | 25228 |
| 10° | 26494 | 24106 | 23311 |
| 15° | 26130 | 22559 | 21124 |
| 20° | 25649 | 20799 | 18839 |
| 25° | 25156 | 18994 | 16748 |
| 30° | 24492 | 17236 | 14463 |
| 35° | 23844 | 15464 | 12501 |
| 40° | 23184 | 13722 | 10481 |
| 45° | 22417 | 11925 | 8719  |
| 50° | 21623 | 10191 | 7098  |
| 55° | 20797 | 8460  | 5635  |
| 60° | 19836 | 6765  | 4264  |
| 65° | 18731 | 5159  | 3465  |
| 70° | 17396 | 3742  | 2756  |
| 75° | 15719 | 2854  | 2105  |
| 80° | 13293 | 1932  | 1413  |
| 85° | 9281  | 884   | 682   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22417 cd/sqm

TEST NUMBER: P1008322

CATALOG NUMBER: S122RDIP-B1005D530UB2750-4F0-XX-W2A-F\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 158.2  | 2.8       |
| 10°-20°   | 434.2  | 7.8       |
| 20°-30°   | 609.6  | 10.9      |
| 30°-40°   | 664.5  | 11.9      |
| 40°-50°   | 610.8  | 10.9      |
| 50°-60°   | 479.7  | 8.6       |
| 60°-70°   | 312.2  | 5.6       |
| 70°-80°   | 160.7  | 2.9       |
| 80°-90°   | 42.3   | 0.8       |
| 90°-100°  | 23.7   | 0.4       |
| 100°-110° | 88.3   | 1.6       |
| 110°-120° | 234.3  | 4.2       |
| 120°-130° | 388.6  | 7.0       |
| 130°-140° | 412.7  | 7.4       |
| 140°-150° | 383.6  | 6.9       |
| 150°-160° | 308.4  | 5.5       |
| 160°-170° | 198.7  | 3.6       |
| 170°-180° | 68.4   | 1.2       |
| 0°-30°    | 1202.0 | 21.5      |
| 0°-40°    | 1866.6 | 33.5      |
| 0°-60°    | 2957.0 | 53.0      |
| 0°-90°    | 3472.3 | 62.2      |
| 90°-120°  | 346.3  | 6.2       |
| 90°-150°  | 1531.2 | 27.4      |
| 90°-180°  | 2107.0 | 37.8      |
| 0°-180°   | 5579.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1688 | 1688  | 1688 | 1688  | 1688 |      |
| 5°   | 1688 | 1680  | 1660 | 1674  | 1669 | 160  |
| 15°  | 1605 | 1588  | 1536 | 1508  | 1492 | 452  |
| 25°  | 1457 | 1408  | 1307 | 1245  | 1222 | 670  |
| 35°  | 1256 | 1178  | 1043 | 947   | 913  | 786  |
| 45°  | 1026 | 924   | 764  | 655   | 619  | 793  |
| 55°  | 780  | 661   | 496  | 405   | 376  | 697  |
| 65°  | 527  | 403   | 266  | 214   | 209  | 522  |
| 75°  | 281  | 174   | 122  | 112   | 110  | 297  |
| 85°  | 66   | 34    | 29   | 29    | 29   | 75   |
| 90°  | 0    | 6     | 10   | 13    | 14   | 5    |
| 95°  | 34   | 17    | 20   | 23    | 22   | 40   |
| 105° | 158  | 174   | 32   | 37    | 40   | 169  |
| 115° | 299  | 308   | 321  | 80    | 43   | 294  |
| 125° | 423  | 430   | 439  | 443   | 445  | 377  |
| 135° | 523  | 531   | 536  | 541   | 540  | 404  |
| 145° | 607  | 606   | 615  | 619   | 616  | 380  |
| 155° | 668  | 664   | 670  | 673   | 669  | 308  |
| 165° | 704  | 701   | 702  | 706   | 702  | 199  |
| 175° | 720  | 716   | 718  | 721   | 716  | 69   |
| 180° | 719  | 719   | 719  | 719   | 719  |      |

TEST NUMBER: P1008322

CATALOG NUMBER: S122RDIP-B1005D530UB2750-4F0-XX-W2A-F\_4000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1687.7 | 1687.7 | 1687.7 | 1687.7 | 1687.7 |
| 2.5°   | 1695.4 | 1687.7 | 1670.9 | 1686.2 | 1683.1 |
| 5°     | 1687.7 | 1680.1 | 1660.2 | 1674.0 | 1669.4 |
| 7.5°   | 1674.0 | 1664.8 | 1643.4 | 1649.5 | 1641.9 |
| 10°    | 1655.6 | 1644.9 | 1614.4 | 1609.8 | 1600.7 |
| 12.5°  | 1632.7 | 1619.0 | 1577.7 | 1568.6 | 1551.8 |
| 15°    | 1605.2 | 1588.4 | 1536.5 | 1507.5 | 1492.2 |
| 17.5°  | 1573.2 | 1548.7 | 1484.6 | 1451.0 | 1426.5 |
| 20°    | 1536.5 | 1506.0 | 1429.6 | 1391.4 | 1357.8 |
| 22.5°  | 1496.8 | 1461.7 | 1373.1 | 1321.2 | 1298.2 |
| 25°    | 1457.1 | 1408.2 | 1307.4 | 1244.8 | 1221.9 |
| 27.5°  | 1409.7 | 1357.8 | 1246.3 | 1174.5 | 1139.4 |
| 30°    | 1359.3 | 1301.3 | 1179.1 | 1101.2 | 1060.0 |
| 32.5°  | 1310.5 | 1240.2 | 1115.0 | 1023.3 | 985.1  |
| 35°    | 1255.5 | 1177.6 | 1043.2 | 947.0  | 913.4  |
| 37.5°  | 1202.0 | 1118.0 | 976.0  | 870.6  | 832.4  |
| 40°    | 1145.5 | 1053.9 | 905.7  | 797.3  | 757.6  |
| 42.5°  | 1087.5 | 989.7  | 835.5  | 722.4  | 684.2  |
| 45°    | 1026.4 | 924.0  | 763.7  | 655.2  | 618.6  |
| 47.5°  | 968.3  | 859.9  | 694.9  | 586.5  | 552.9  |
| 50°    | 904.2  | 795.7  | 627.7  | 522.4  | 490.3  |
| 52.5°  | 841.6  | 727.0  | 563.6  | 462.8  | 433.8  |
| 55°    | 780.5  | 661.3  | 496.4  | 404.7  | 375.7  |
| 57.5°  | 717.9  | 595.7  | 436.8  | 351.3  | 326.9  |
| 60°    | 653.7  | 531.5  | 374.2  | 296.3  | 271.9  |
| 62.5°  | 591.1  | 468.9  | 320.7  | 247.4  | 235.2  |
| 65°    | 526.9  | 403.2  | 265.8  | 213.8  | 209.2  |
| 67.5°  | 465.8  | 342.1  | 213.8  | 187.9  | 183.3  |
| 70°    | 401.7  | 282.6  | 177.2  | 161.9  | 155.8  |
| 72.5°  | 340.6  | 227.6  | 148.2  | 135.9  | 132.9  |
| 75°    | 281.0  | 174.1  | 122.2  | 111.5  | 110.0  |
| 77.5°  | 221.5  | 123.7  | 96.2   | 90.1   | 87.1   |
| 80°    | 166.5  | 88.6   | 73.3   | 67.2   | 67.2   |
| 82.5°  | 116.1  | 59.6   | 50.4   | 47.3   | 47.3   |
| 85°    | 65.7   | 33.6   | 29.0   | 29.0   | 29.0   |
| 87.5°  | 24.4   | 12.2   | 12.2   | 10.7   | 10.7   |
| 90°    | 0.5    | 6.2    | 10.4   | 13.0   | 14.0   |
| 92.5°  | 13.0   | 10.9   | 12.5   | 13.5   | 14.0   |
| 95°    | 33.8   | 16.6   | 20.3   | 22.9   | 22.4   |
| 97.5°  | 60.8   | 18.2   | 26.5   | 28.1   | 28.6   |
| 100°   | 92.0   | 20.8   | 29.6   | 33.8   | 34.8   |
| 102.5° | 126.4  | 125.3  | 30.7   | 36.4   | 38.0   |
| 105°   | 158.1  | 173.7  | 31.7   | 37.4   | 39.5   |
| 107.5° | 195.0  | 208.0  | 32.8   | 38.5   | 40.6   |
| 110°   | 230.4  | 241.3  | 91.0   | 39.0   | 41.1   |



TEST NUMBER: P1008322

CATALOG NUMBER: S122RDIP-B1005D530UB2750-4F0-XX-W2A-F\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 263.6 | 273.0 | 264.2 | 40.0  | 41.6  |
| 115°   | 299.0 | 307.8 | 320.8 | 80.1  | 42.6  |
| 117.5° | 329.7 | 340.1 | 348.9 | 274.6 | 138.3 |
| 120°   | 364.0 | 371.8 | 381.1 | 387.4 | 317.2 |
| 122.5° | 393.1 | 401.4 | 411.8 | 414.9 | 415.5 |
| 125°   | 422.7 | 429.5 | 439.4 | 443.0 | 444.6 |
| 127.5° | 449.8 | 457.1 | 464.9 | 470.1 | 470.6 |
| 130°   | 475.3 | 483.6 | 489.3 | 495.0 | 494.5 |
| 132.5° | 501.3 | 508.0 | 513.7 | 518.4 | 517.9 |
| 135°   | 523.1 | 531.4 | 536.1 | 541.3 | 540.3 |
| 137.5° | 546.0 | 552.2 | 557.4 | 562.6 | 561.1 |
| 140°   | 568.3 | 572.5 | 578.2 | 582.9 | 580.3 |
| 142.5° | 587.1 | 590.7 | 597.5 | 601.6 | 599.0 |
| 145°   | 606.8 | 606.3 | 615.1 | 618.8 | 616.2 |
| 147.5° | 624.0 | 622.4 | 631.3 | 633.9 | 631.8 |
| 150°   | 640.6 | 637.0 | 645.3 | 648.4 | 645.8 |
| 152.5° | 654.7 | 650.5 | 658.3 | 661.4 | 657.8 |
| 155°   | 668.2 | 663.5 | 669.7 | 672.9 | 668.7 |
| 157.5° | 679.1 | 674.9 | 679.6 | 683.3 | 679.1 |
| 160°   | 688.5 | 685.3 | 688.5 | 691.6 | 687.9 |
| 162.5° | 696.8 | 693.7 | 696.3 | 699.9 | 695.2 |
| 165°   | 704.1 | 700.9 | 702.5 | 706.1 | 702.5 |
| 167.5° | 709.8 | 706.7 | 708.2 | 711.9 | 707.2 |
| 170°   | 714.5 | 711.3 | 712.4 | 716.0 | 711.3 |
| 172.5° | 717.6 | 714.5 | 715.5 | 719.1 | 714.5 |
| 175°   | 720.2 | 716.5 | 717.6 | 721.2 | 716.0 |
| 177.5° | 721.2 | 717.6 | 718.1 | 721.7 | 717.1 |
| 180°   | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |

(END OF REPORT)