

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: P1010165

Luminaire Tested: S122RDIP-B675D530UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010165  
REPORT IS A COMBINATION OF REPORTS P988517 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-B675D530UB30-4F0-XX-W2A-F  
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}  
{m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

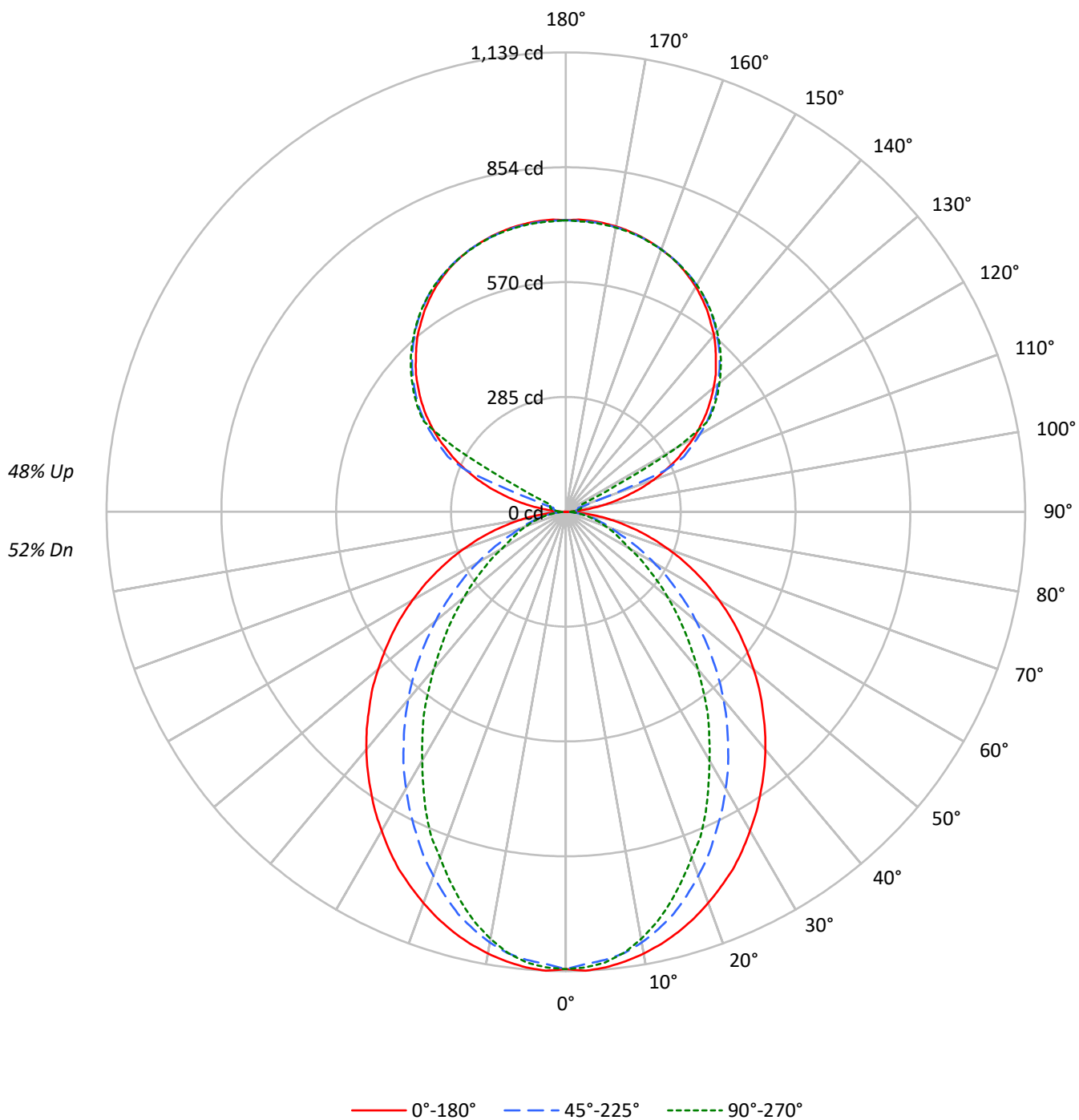
Lumens per Lamp: N/A  
Luminaire Lumens: 4452.0 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 51.3  
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: P1010165

CATALOG NUMBER: S122RDIP-B675D530UB30-4F0-XX-W2A-F

### Luminous Intensity Polar Plot



TEST NUMBER: P1010165

CATALOG NUMBER: S122RDIP-B675D530UB30-4F0-XX-W2A-F

**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 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 58 | 58 | 58 |
| 1   | 99  | 95  | 91  | 88  | 91  | 88  | 85  | 82  | 75 | 73 | 71 | 63 | 62 | 60 | 52 | 51 | 50 |
| 2   | 90  | 83  | 77  | 72  | 83  | 77  | 72  | 68  | 66 | 63 | 59 | 56 | 53 | 51 | 47 | 45 | 43 |
| 3   | 83  | 74  | 67  | 61  | 76  | 69  | 62  | 57  | 59 | 54 | 50 | 50 | 47 | 44 | 42 | 39 | 37 |
| 4   | 76  | 66  | 58  | 52  | 70  | 61  | 54  | 49  | 53 | 48 | 43 | 45 | 41 | 38 | 38 | 35 | 33 |
| 5   | 70  | 59  | 51  | 45  | 65  | 55  | 48  | 43  | 47 | 42 | 38 | 41 | 36 | 33 | 34 | 31 | 29 |
| 6   | 65  | 53  | 45  | 39  | 60  | 49  | 42  | 37  | 43 | 37 | 33 | 37 | 33 | 29 | 31 | 28 | 26 |
| 7   | 60  | 48  | 40  | 35  | 55  | 45  | 38  | 33  | 39 | 34 | 30 | 34 | 29 | 26 | 29 | 25 | 23 |
| 8   | 56  | 44  | 36  | 31  | 52  | 41  | 34  | 29  | 36 | 30 | 26 | 31 | 27 | 24 | 26 | 23 | 21 |
| 9   | 52  | 40  | 33  | 28  | 48  | 38  | 31  | 26  | 33 | 28 | 24 | 29 | 24 | 21 | 25 | 21 | 19 |
| 10  | 49  | 37  | 30  | 25  | 45  | 35  | 28  | 24  | 30 | 25 | 22 | 27 | 22 | 19 | 23 | 20 | 17 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17949 | 17949 | 17949 |
| 5°  | 17978 | 17076 | 16950 |
| 10° | 17800 | 16195 | 15661 |
| 15° | 17557 | 15156 | 14192 |
| 20° | 17232 | 13974 | 12656 |
| 25° | 16900 | 12761 | 11251 |
| 30° | 16456 | 11581 | 9716  |
| 35° | 16019 | 10390 | 8398  |
| 40° | 15576 | 9219  | 7042  |
| 45° | 15061 | 8012  | 5858  |
| 50° | 14527 | 6847  | 4769  |
| 55° | 13973 | 5684  | 3785  |
| 60° | 13327 | 4545  | 2865  |
| 65° | 12584 | 3464  | 2329  |
| 70° | 11689 | 2513  | 1852  |
| 75° | 10562 | 1918  | 1414  |
| 80° | 8934  | 1299  | 950   |
| 85° | 6229  | 595   | 459   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15061 cd/sqm

TEST NUMBER: P1010165

CATALOG NUMBER: S122RDIP-B675D530UB30-4F0-XX-W2A-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 106.3  | 2.4       |
| 10°-20°   | 291.7  | 6.6       |
| 20°-30°   | 409.6  | 9.2       |
| 30°-40°   | 446.5  | 10.0      |
| 40°-50°   | 410.3  | 9.2       |
| 50°-60°   | 322.3  | 7.2       |
| 60°-70°   | 209.8  | 4.7       |
| 70°-80°   | 108.0  | 2.4       |
| 80°-90°   | 28.9   | 0.6       |
| 90°-100°  | 23.8   | 0.5       |
| 100°-110° | 88.8   | 2.0       |
| 110°-120° | 235.6  | 5.3       |
| 120°-130° | 390.8  | 8.8       |
| 130°-140° | 415.1  | 9.3       |
| 140°-150° | 385.8  | 8.7       |
| 150°-160° | 310.2  | 7.0       |
| 160°-170° | 199.9  | 4.5       |
| 170°-180° | 68.8   | 1.5       |
| 0°-30°    | 807.6  | 18.1      |
| 0°-40°    | 1254.0 | 28.2      |
| 0°-60°    | 1986.6 | 44.6      |
| 0°-90°    | 2333.2 | 52.4      |
| 90°-120°  | 348.3  | 7.8       |
| 90°-150°  | 1539.9 | 34.6      |
| 90°-180°  | 2119.0 | 47.6      |
| 0°-180°   | 4452.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1134 | 1134  | 1134 | 1134  | 1134 |      |
| 5°   | 1134 | 1129  | 1115 | 1125  | 1122 | 108  |
| 15°  | 1078 | 1067  | 1032 | 1013  | 1002 | 304  |
| 25°  | 979  | 946   | 878  | 836   | 821  | 450  |
| 35°  | 844  | 791   | 701  | 636   | 614  | 528  |
| 45°  | 690  | 621   | 513  | 440   | 416  | 533  |
| 55°  | 524  | 444   | 334  | 272   | 252  | 469  |
| 65°  | 354  | 271   | 178  | 144   | 141  | 351  |
| 75°  | 189  | 117   | 82   | 75    | 74   | 200  |
| 85°  | 44   | 23    | 20   | 20    | 20   | 51   |
| 90°  | 0    | 6     | 10   | 13    | 14   | 4    |
| 95°  | 34   | 17    | 20   | 23    | 22   | 40   |
| 105° | 159  | 175   | 32   | 38    | 40   | 170  |
| 115° | 301  | 310   | 323  | 80    | 43   | 296  |
| 125° | 425  | 432   | 442  | 446   | 447  | 379  |
| 135° | 526  | 534   | 539  | 544   | 543  | 406  |
| 145° | 610  | 610   | 619  | 622   | 620  | 382  |
| 155° | 672  | 667   | 674  | 677   | 672  | 310  |
| 165° | 708  | 705   | 706  | 710   | 706  | 200  |
| 175° | 724  | 721   | 722  | 725   | 720  | 69   |
| 180° | 723  | 723   | 723  | 723   | 723  |      |

TEST NUMBER: P1010165

CATALOG NUMBER: S122RDIP-B675D530UB30-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 |
| 2.5°   | 1139.0 | 1133.9 | 1122.6 | 1132.9 | 1130.8 |
| 5°     | 1133.9 | 1128.8 | 1115.4 | 1124.7 | 1121.6 |
| 7.5°   | 1124.7 | 1118.5 | 1104.1 | 1108.2 | 1103.1 |
| 10°    | 1112.3 | 1105.2 | 1084.6 | 1081.6 | 1075.4 |
| 12.5°  | 1097.0 | 1087.7 | 1060.0 | 1053.9 | 1042.6 |
| 15°    | 1078.5 | 1067.2 | 1032.3 | 1012.8 | 1002.5 |
| 17.5°  | 1056.9 | 1040.5 | 997.4  | 974.8  | 958.4  |
| 20°    | 1032.3 | 1011.8 | 960.5  | 934.8  | 912.2  |
| 22.5°  | 1005.6 | 982.0  | 922.5  | 887.6  | 872.2  |
| 25°    | 978.9  | 946.1  | 878.4  | 836.3  | 820.9  |
| 27.5°  | 947.1  | 912.2  | 837.3  | 789.1  | 765.5  |
| 30°    | 913.3  | 874.3  | 792.2  | 739.9  | 712.1  |
| 32.5°  | 880.4  | 833.2  | 749.1  | 687.5  | 661.9  |
| 35°    | 843.5  | 791.2  | 700.9  | 636.2  | 613.6  |
| 37.5°  | 807.6  | 751.1  | 655.7  | 584.9  | 559.3  |
| 40°    | 769.6  | 708.0  | 608.5  | 535.6  | 509.0  |
| 42.5°  | 730.6  | 664.9  | 561.3  | 485.4  | 459.7  |
| 45°    | 689.6  | 620.8  | 513.1  | 440.2  | 415.6  |
| 47.5°  | 650.6  | 577.7  | 466.9  | 394.0  | 371.5  |
| 50°    | 607.5  | 534.6  | 421.7  | 350.9  | 329.4  |
| 52.5°  | 565.4  | 488.4  | 378.6  | 310.9  | 291.4  |
| 55°    | 524.4  | 444.3  | 333.5  | 271.9  | 252.4  |
| 57.5°  | 482.3  | 400.2  | 293.5  | 236.0  | 219.6  |
| 60°    | 439.2  | 357.1  | 251.4  | 199.1  | 182.7  |
| 62.5°  | 397.1  | 315.0  | 215.5  | 166.2  | 158.0  |
| 65°    | 354.0  | 270.9  | 178.5  | 143.7  | 140.6  |
| 67.5°  | 313.0  | 229.9  | 143.7  | 126.2  | 123.1  |
| 70°    | 269.9  | 189.8  | 119.0  | 108.8  | 104.7  |
| 72.5°  | 228.8  | 152.9  | 99.5   | 91.3   | 89.3   |
| 75°    | 188.8  | 117.0  | 82.1   | 74.9   | 73.9   |
| 77.5°  | 148.8  | 83.1   | 64.6   | 60.5   | 58.5   |
| 80°    | 111.9  | 59.5   | 49.3   | 45.2   | 45.2   |
| 82.5°  | 78.0   | 40.0   | 33.9   | 31.8   | 31.8   |
| 85°    | 44.1   | 22.6   | 19.5   | 19.5   | 19.5   |
| 87.5°  | 16.4   | 8.2    | 8.2    | 7.2    | 7.2    |
| 90°    | 0.5    | 6.3    | 10.5   | 13.1   | 14.1   |
| 92.5°  | 13.1   | 11.0   | 12.6   | 13.6   | 14.1   |
| 95°    | 34.0   | 16.7   | 20.4   | 23.0   | 22.5   |
| 97.5°  | 61.2   | 18.3   | 26.7   | 28.2   | 28.8   |
| 100°   | 92.6   | 20.9   | 29.8   | 34.0   | 35.0   |
| 102.5° | 127.1  | 126.0  | 30.9   | 36.6   | 38.2   |
| 105°   | 159.0  | 174.7  | 31.9   | 37.7   | 39.7   |
| 107.5° | 196.1  | 209.2  | 32.9   | 38.7   | 40.8   |
| 110°   | 231.7  | 242.6  | 91.5   | 39.2   | 41.3   |

TEST NUMBER: P1010165

CATALOG NUMBER: S122RDIP-B675D530UB30-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 265.1 | 274.5 | 265.7 | 40.3  | 41.8  |
| 115°   | 300.7 | 309.6 | 322.7 | 80.5  | 42.9  |
| 117.5° | 331.5 | 342.0 | 350.9 | 276.1 | 139.1 |
| 120°   | 366.1 | 373.9 | 383.3 | 389.6 | 319.0 |
| 122.5° | 395.3 | 403.7 | 414.2 | 417.3 | 417.8 |
| 125°   | 425.2 | 432.0 | 441.9 | 445.5 | 447.1 |
| 127.5° | 452.3 | 459.7 | 467.5 | 472.7 | 473.3 |
| 130°   | 478.0 | 486.3 | 492.1 | 497.8 | 497.3 |
| 132.5° | 504.1 | 510.9 | 516.7 | 521.4 | 520.9 |
| 135°   | 526.1 | 534.4 | 539.2 | 544.4 | 543.3 |
| 137.5° | 549.1 | 555.4 | 560.6 | 565.8 | 564.3 |
| 140°   | 571.6 | 575.8 | 581.5 | 586.2 | 583.6 |
| 142.5° | 590.4 | 594.1 | 600.9 | 605.0 | 602.4 |
| 145°   | 610.3 | 609.8 | 618.6 | 622.3 | 619.7 |
| 147.5° | 627.5 | 626.0 | 634.9 | 637.5 | 635.4 |
| 150°   | 644.3 | 640.6 | 649.0 | 652.1 | 649.5 |
| 152.5° | 658.4 | 654.2 | 662.0 | 665.2 | 661.5 |
| 155°   | 672.0 | 667.3 | 673.6 | 676.7 | 672.5 |
| 157.5° | 683.0 | 678.8 | 683.5 | 687.1 | 683.0 |
| 160°   | 692.4 | 689.2 | 692.4 | 695.5 | 691.9 |
| 162.5° | 700.7 | 697.6 | 700.2 | 703.9 | 699.2 |
| 165°   | 708.1 | 704.9 | 706.5 | 710.2 | 706.5 |
| 167.5° | 713.8 | 710.7 | 712.2 | 715.9 | 711.2 |
| 170°   | 718.5 | 715.4 | 716.4 | 720.1 | 715.4 |
| 172.5° | 721.7 | 718.5 | 719.6 | 723.2 | 718.5 |
| 175°   | 724.3 | 720.6 | 721.7 | 725.3 | 720.1 |
| 177.5° | 725.3 | 721.7 | 722.2 | 725.8 | 721.1 |
| 180°   | 722.7 | 722.7 | 722.7 | 722.7 | 722.7 |

(END OF REPORT)