

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: P1008533

Luminaire Tested: S122RDIP-B865D725UB2750-4F0-XX-W2A-F\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008533  
REPORT IS A COMBINATION OF REPORTS P988754 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-B865D725UB2750-4F0-XX-W2A-F\_5000K  
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}  
{m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

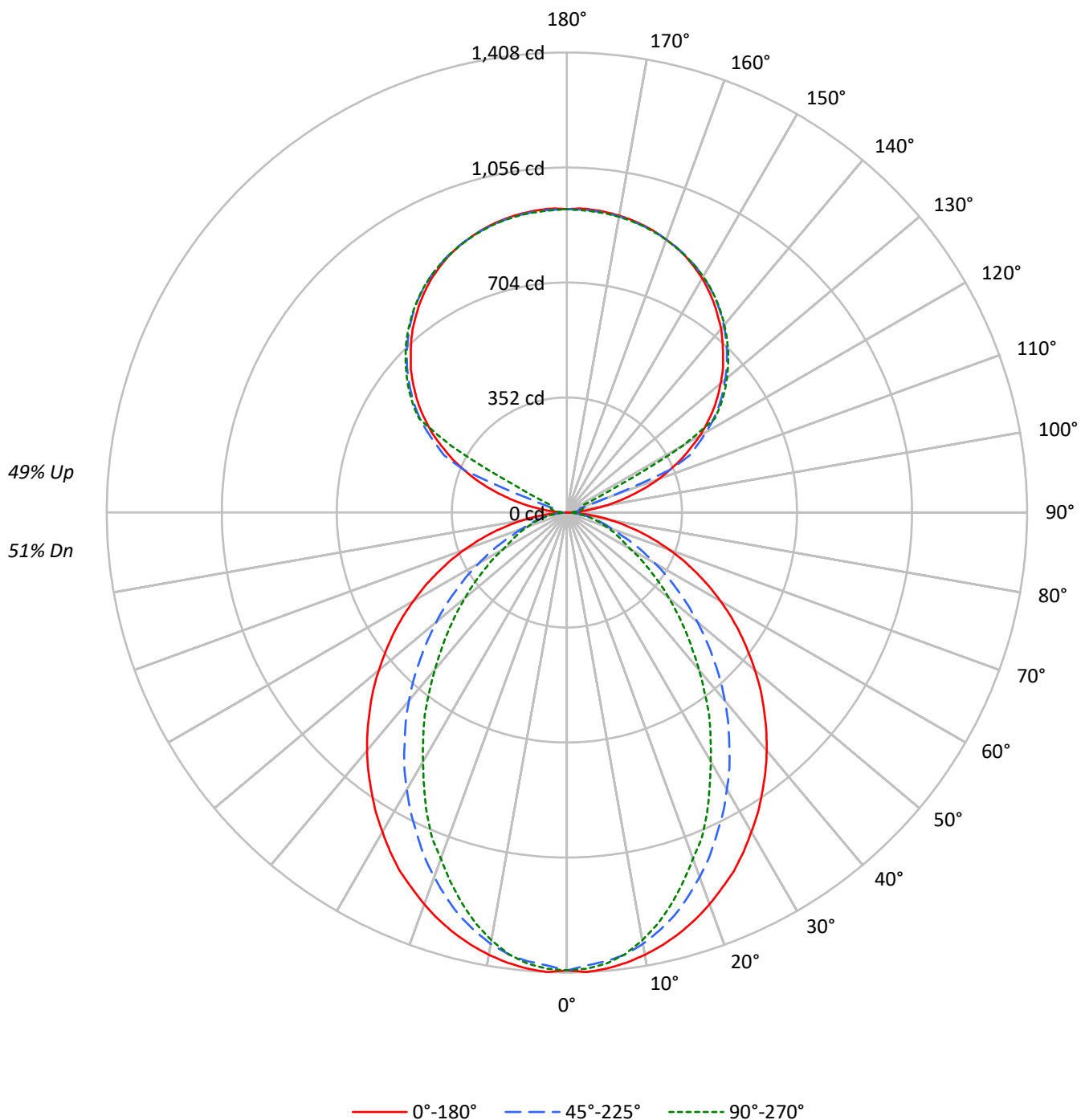
Lumens per Lamp: N/A  
Luminaire Lumens: 5605.0 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 67.9  
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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 |  | 84 | 84 | 84 |  | 70 | 70 | 70 |  | 57 | 57 | 57 |
| 1   | 99  | 94  | 91  | 87  | 91 | 88 | 84 | 81 |  | 75 | 72 | 70 |  | 63 | 61 | 59 |  | 52 | 50 | 49 |
| 2   | 90  | 83  | 77  | 72  | 83 | 77 | 72 | 68 |  | 66 | 62 | 59 |  | 56 | 53 | 50 |  | 46 | 44 | 42 |
| 3   | 83  | 73  | 66  | 61  | 76 | 68 | 62 | 57 |  | 59 | 54 | 50 |  | 50 | 46 | 43 |  | 41 | 39 | 37 |
| 4   | 76  | 65  | 58  | 52  | 70 | 61 | 54 | 49 |  | 52 | 47 | 43 |  | 44 | 41 | 38 |  | 37 | 34 | 32 |
| 5   | 70  | 58  | 51  | 45  | 64 | 55 | 48 | 42 |  | 47 | 42 | 38 |  | 40 | 36 | 33 |  | 34 | 31 | 28 |
| 6   | 64  | 53  | 45  | 39  | 60 | 49 | 42 | 37 |  | 43 | 37 | 33 |  | 36 | 32 | 29 |  | 31 | 28 | 25 |
| 7   | 60  | 48  | 40  | 34  | 55 | 45 | 38 | 33 |  | 39 | 33 | 29 |  | 33 | 29 | 26 |  | 28 | 25 | 23 |
| 8   | 56  | 43  | 36  | 31  | 51 | 41 | 34 | 29 |  | 36 | 30 | 26 |  | 31 | 26 | 23 |  | 26 | 23 | 20 |
| 9   | 52  | 40  | 32  | 27  | 48 | 37 | 31 | 26 |  | 33 | 27 | 24 |  | 28 | 24 | 21 |  | 24 | 21 | 18 |
| 10  | 48  | 37  | 29  | 25  | 45 | 34 | 28 | 24 |  | 30 | 25 | 21 |  | 26 | 22 | 19 |  | 22 | 19 | 17 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 22182 | 22182 | 22182 |
| 5°  | 22218 | 21103 | 20947 |
| 10° | 21999 | 20016 | 19354 |
| 15° | 21696 | 18731 | 17540 |
| 20° | 21297 | 17270 | 15642 |
| 25° | 20886 | 15770 | 13905 |
| 30° | 20337 | 14311 | 12008 |
| 35° | 19797 | 12840 | 10380 |
| 40° | 19249 | 11394 | 8702  |
| 45° | 18612 | 9901  | 7239  |
| 50° | 17954 | 8462  | 5894  |
| 55° | 17267 | 7025  | 4679  |
| 60° | 16471 | 5617  | 3539  |
| 65° | 15553 | 4283  | 2877  |
| 70° | 14443 | 3107  | 2289  |
| 75° | 13051 | 2371  | 1748  |
| 80° | 11034 | 1605  | 1173  |
| 85° | 7698  | 735   | 567   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18612 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 131.3  | 2.3       |
| 10°-20°   | 360.5  | 6.4       |
| 20°-30°   | 506.2  | 9.0       |
| 30°-40°   | 551.8  | 9.8       |
| 40°-50°   | 507.1  | 9.0       |
| 50°-60°   | 398.3  | 7.1       |
| 60°-70°   | 259.2  | 4.6       |
| 70°-80°   | 133.5  | 2.4       |
| 80°-90°   | 35.7   | 0.6       |
| 90°-100°  | 30.6   | 0.5       |
| 100°-110° | 114.1  | 2.0       |
| 110°-120° | 302.6  | 5.4       |
| 120°-130° | 501.9  | 9.0       |
| 130°-140° | 533.2  | 9.5       |
| 140°-150° | 495.5  | 8.8       |
| 150°-160° | 398.4  | 7.1       |
| 160°-170° | 256.7  | 4.6       |
| 170°-180° | 88.4   | 1.6       |
| 0°-30°    | 998.1  | 17.8      |
| 0°-40°    | 1549.8 | 27.7      |
| 0°-60°    | 2455.2 | 43.8      |
| 0°-90°    | 2883.6 | 51.4      |
| 90°-120°  | 447.3  | 8.0       |
| 90°-150°  | 1977.9 | 35.3      |
| 90°-180°  | 2721.0 | 48.5      |
| 0°-180°   | 5605.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1401 | 1401  | 1401 | 1401  | 1401 |      |
| 5°   | 1401 | 1395  | 1378 | 1390  | 1386 | 133  |
| 15°  | 1333 | 1319  | 1276 | 1252  | 1239 | 376  |
| 25°  | 1210 | 1169  | 1086 | 1034  | 1014 | 556  |
| 35°  | 1042 | 978   | 866  | 786   | 758  | 652  |
| 45°  | 852  | 767   | 634  | 544   | 514  | 658  |
| 55°  | 648  | 549   | 412  | 336   | 312  | 579  |
| 65°  | 438  | 335   | 221  | 178   | 174  | 434  |
| 75°  | 233  | 145   | 102  | 93    | 91   | 247  |
| 85°  | 54   | 28    | 24   | 24    | 24   | 63   |
| 90°  | 1    | 8     | 13   | 17    | 18   | 5    |
| 95°  | 44   | 22    | 26   | 30    | 29   | 52   |
| 105° | 204  | 224   | 41   | 48    | 51   | 218  |
| 115° | 386  | 398   | 414  | 103   | 55   | 380  |
| 125° | 546  | 555   | 568  | 572   | 574  | 487  |
| 135° | 676  | 686   | 692  | 699   | 698  | 522  |
| 145° | 784  | 783   | 795  | 799   | 796  | 490  |
| 155° | 863  | 857   | 865  | 869   | 864  | 398  |
| 165° | 910  | 905   | 907  | 912   | 907  | 257  |
| 175° | 930  | 926   | 927  | 932   | 925  | 89   |
| 180° | 928  | 928   | 928  | 928   | 928  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1401.3 | 1401.3 | 1401.3 | 1401.3 | 1401.3 |
| 2.5°   | 1407.7 | 1401.3 | 1387.4 | 1400.1 | 1397.5 |
| 5°     | 1401.3 | 1395.0 | 1378.5 | 1389.9 | 1386.1 |
| 7.5°   | 1389.9 | 1382.3 | 1364.5 | 1369.6 | 1363.3 |
| 10°    | 1374.7 | 1365.8 | 1340.5 | 1336.6 | 1329.0 |
| 12.5°  | 1355.7 | 1344.3 | 1310.0 | 1302.4 | 1288.5 |
| 15°    | 1332.8 | 1318.9 | 1275.8 | 1251.7 | 1239.0 |
| 17.5°  | 1306.2 | 1285.9 | 1232.7 | 1204.8 | 1184.5 |
| 20°    | 1275.8 | 1250.4 | 1187.0 | 1155.3 | 1127.4 |
| 22.5°  | 1242.8 | 1213.6 | 1140.1 | 1097.0 | 1077.9 |
| 25°    | 1209.8 | 1169.2 | 1085.5 | 1033.6 | 1014.5 |
| 27.5°  | 1170.5 | 1127.4 | 1034.8 | 975.2  | 946.1  |
| 30°    | 1128.7 | 1080.5 | 979.0  | 914.3  | 880.1  |
| 32.5°  | 1088.1 | 1029.8 | 925.8  | 849.7  | 818.0  |
| 35°    | 1042.4 | 977.8  | 866.2  | 786.3  | 758.4  |
| 37.5°  | 998.0  | 928.3  | 810.4  | 722.9  | 691.2  |
| 40°    | 951.1  | 875.0  | 752.0  | 662.0  | 629.0  |
| 42.5°  | 902.9  | 821.8  | 693.7  | 599.8  | 568.1  |
| 45°    | 852.2  | 767.2  | 634.1  | 544.0  | 513.6  |
| 47.5°  | 804.0  | 714.0  | 577.0  | 487.0  | 459.1  |
| 50°    | 750.8  | 660.7  | 521.2  | 433.7  | 407.1  |
| 52.5°  | 698.8  | 603.6  | 468.0  | 384.3  | 360.2  |
| 55°    | 648.0  | 549.1  | 412.2  | 336.1  | 312.0  |
| 57.5°  | 596.0  | 494.6  | 362.7  | 291.7  | 271.4  |
| 60°    | 542.8  | 441.3  | 310.7  | 246.0  | 225.7  |
| 62.5°  | 490.8  | 389.3  | 266.3  | 205.4  | 195.3  |
| 65°    | 437.5  | 334.8  | 220.7  | 177.5  | 173.7  |
| 67.5°  | 386.8  | 284.1  | 177.5  | 156.0  | 152.2  |
| 70°    | 333.5  | 234.6  | 147.1  | 134.4  | 129.4  |
| 72.5°  | 282.8  | 189.0  | 123.0  | 112.9  | 110.3  |
| 75°    | 233.3  | 144.6  | 101.5  | 92.6   | 91.3   |
| 77.5°  | 183.9  | 102.7  | 79.9   | 74.8   | 72.3   |
| 80°    | 138.2  | 73.6   | 60.9   | 55.8   | 55.8   |
| 82.5°  | 96.4   | 49.5   | 41.8   | 39.3   | 39.3   |
| 85°    | 54.5   | 27.9   | 24.1   | 24.1   | 24.1   |
| 87.5°  | 20.3   | 10.1   | 10.1   | 8.9    | 8.9    |
| 90°    | 0.7    | 8.1    | 13.4   | 16.8   | 18.1   |
| 92.5°  | 16.8   | 14.1   | 16.1   | 17.5   | 18.1   |
| 95°    | 43.7   | 21.5   | 26.2   | 29.6   | 28.9   |
| 97.5°  | 78.6   | 23.5   | 34.3   | 36.3   | 36.9   |
| 100°   | 118.9  | 26.9   | 38.3   | 43.7   | 45.0   |
| 102.5° | 163.2  | 161.9  | 39.6   | 47.0   | 49.0   |
| 105°   | 204.2  | 224.3  | 41.0   | 48.4   | 51.0   |
| 107.5° | 251.9  | 268.7  | 42.3   | 49.7   | 52.4   |
| 110°   | 297.6  | 311.7  | 117.5  | 50.4   | 53.1   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 340.5 | 352.6 | 341.2 | 51.7  | 53.7  |
| 115°   | 386.2 | 397.6 | 414.4 | 103.4 | 55.1  |
| 117.5° | 425.8 | 439.3 | 450.7 | 354.7 | 178.7 |
| 120°   | 470.2 | 480.3 | 492.3 | 500.4 | 409.7 |
| 122.5° | 507.8 | 518.5 | 532.0 | 536.0 | 536.7 |
| 125°   | 546.1 | 554.8 | 567.6 | 572.3 | 574.3 |
| 127.5° | 581.0 | 590.4 | 600.5 | 607.2 | 607.9 |
| 130°   | 613.9 | 624.7 | 632.1 | 639.4 | 638.8 |
| 132.5° | 647.5 | 656.2 | 663.6 | 669.7 | 669.0 |
| 135°   | 675.7 | 686.5 | 692.5 | 699.2 | 697.9 |
| 137.5° | 705.3 | 713.3 | 720.0 | 726.8 | 724.8 |
| 140°   | 734.2 | 739.5 | 746.9 | 753.0 | 749.6 |
| 142.5° | 758.3 | 763.0 | 771.8 | 777.1 | 773.8 |
| 145°   | 783.9 | 783.2 | 794.6 | 799.3 | 795.9 |
| 147.5° | 806.0 | 804.0 | 815.4 | 818.8 | 816.1 |
| 150°   | 827.5 | 822.8 | 833.6 | 837.6 | 834.2 |
| 152.5° | 845.7 | 840.3 | 850.4 | 854.4 | 849.7 |
| 155°   | 863.1 | 857.1 | 865.1 | 869.2 | 863.8 |
| 157.5° | 877.2 | 871.8 | 877.9 | 882.6 | 877.2 |
| 160°   | 889.3 | 885.3 | 889.3 | 893.3 | 888.6 |
| 162.5° | 900.1 | 896.0 | 899.4 | 904.1 | 898.0 |
| 165°   | 909.5 | 905.4 | 907.4 | 912.2 | 907.4 |
| 167.5° | 916.9 | 912.8 | 914.8 | 919.5 | 913.5 |
| 170°   | 922.9 | 918.9 | 920.2 | 924.9 | 918.9 |
| 172.5° | 926.9 | 922.9 | 924.2 | 928.9 | 922.9 |
| 175°   | 930.3 | 925.6 | 926.9 | 931.6 | 924.9 |
| 177.5° | 931.6 | 926.9 | 927.6 | 932.3 | 926.3 |
| 180°   | 928.3 | 928.3 | 928.3 | 928.3 | 928.3 |

(END OF REPORT)