

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: P1008278

Luminaire Tested: S122DIP-B865D725UB2750-4F0-XX-W2A-F\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008278  
REPORT IS A COMBINATION OF REPORTS P984921 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B865D725UB2750-4F0-XX-W2A-F\_5000K  
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

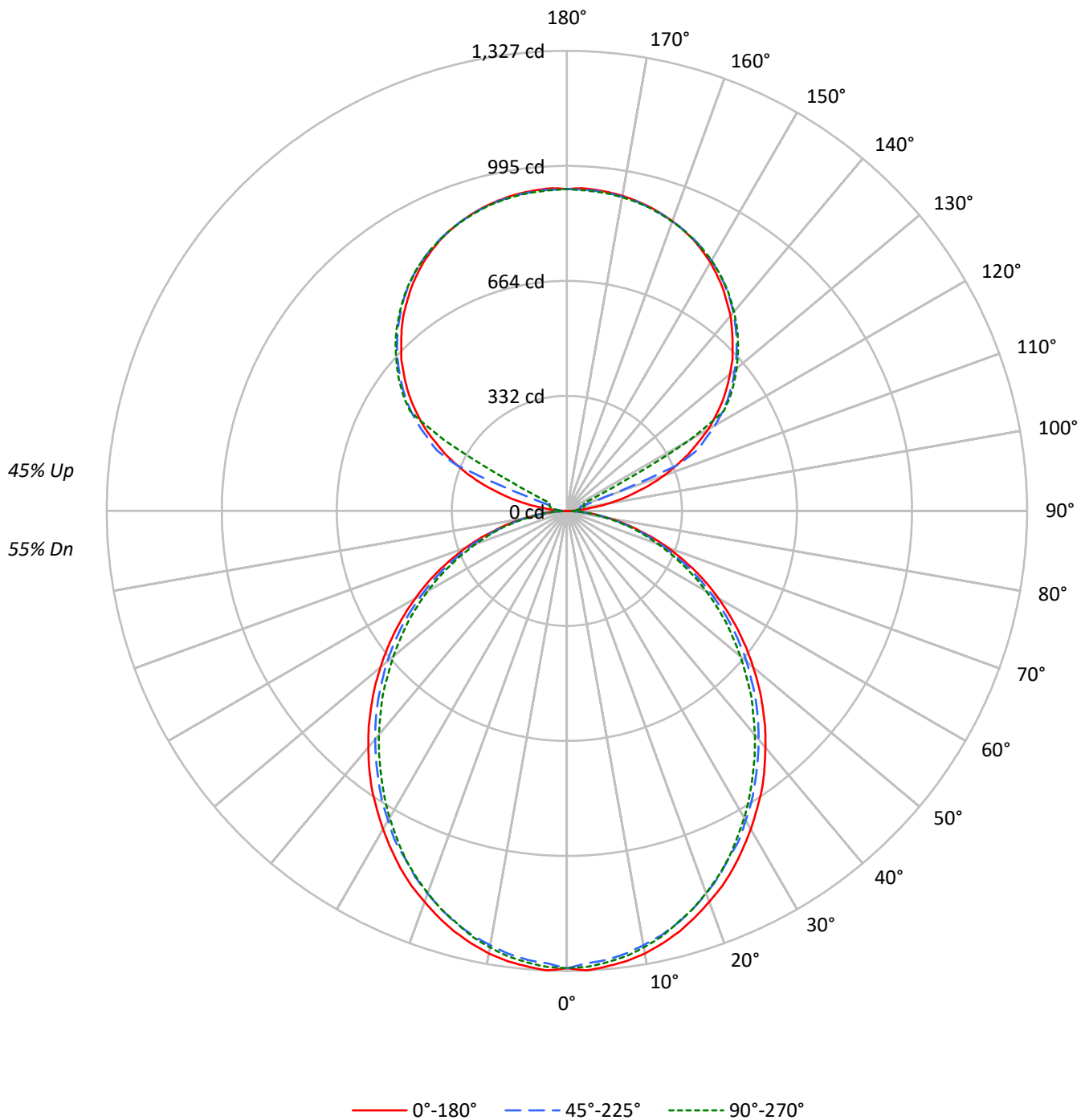
Lumens per Lamp: N/A  
Luminaire Lumens: 6079.0 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 55 |    |    |
| 1   | 99  | 95  | 91  | 87  | 92  | 88  | 85  | 82  | 76 | 73 | 71 | 64 | 63 | 61 | 54 | 53 | 51 | 47 |    |    |
| 2   | 90  | 83  | 76  | 71  | 83  | 77  | 72  | 67  | 66 | 62 | 59 | 56 | 53 | 51 | 47 | 45 | 43 | 39 |    |    |
| 3   | 82  | 73  | 65  | 59  | 76  | 68  | 61  | 56  | 59 | 54 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 |    |    |
| 4   | 75  | 64  | 56  | 50  | 70  | 60  | 53  | 47  | 52 | 46 | 42 | 45 | 40 | 37 | 38 | 34 | 32 | 28 |    |    |
| 5   | 69  | 57  | 49  | 43  | 64  | 54  | 46  | 41  | 47 | 41 | 36 | 40 | 36 | 32 | 34 | 30 | 28 | 25 |    |    |
| 6   | 64  | 51  | 43  | 37  | 59  | 48  | 41  | 36  | 42 | 36 | 32 | 36 | 32 | 28 | 31 | 27 | 24 | 22 |    |    |
| 7   | 59  | 47  | 38  | 33  | 55  | 44  | 36  | 31  | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 19 |    |    |
| 8   | 55  | 42  | 34  | 29  | 51  | 40  | 33  | 28  | 35 | 29 | 25 | 30 | 26 | 22 | 26 | 22 | 20 | 17 |    |    |
| 9   | 51  | 39  | 31  | 26  | 47  | 36  | 29  | 25  | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 18 | 16 |    |    |
| 10  | 48  | 35  | 28  | 23  | 44  | 33  | 27  | 22  | 29 | 24 | 20 | 26 | 21 | 18 | 22 | 19 | 16 | 14 |    |    |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 20880 | 20880 | 20880 |
| 5°  | 20914 | 19903 | 19762 |
| 10° | 20745 | 18996 | 18619 |
| 15° | 20441 | 18082 | 17417 |
| 20° | 20030 | 17088 | 16278 |
| 25° | 19621 | 16049 | 15141 |
| 30° | 19106 | 15074 | 13949 |
| 35° | 18619 | 14045 | 12776 |
| 40° | 18021 | 13030 | 11670 |
| 45° | 17424 | 12022 | 10584 |
| 50° | 16773 | 10997 | 9456  |
| 55° | 16086 | 9900  | 8388  |
| 60° | 15318 | 8714  | 7279  |
| 65° | 14472 | 7509  | 6113  |
| 70° | 13404 | 6188  | 4936  |
| 75° | 11921 | 4770  | 3811  |
| 80° | 10123 | 3241  | 2453  |
| 85° | 7345  | 1509  | 1044  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17424 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.1  | 2.0       |
| 10°-20°   | 349.3  | 5.7       |
| 20°-30°   | 513.3  | 8.4       |
| 30°-40°   | 596.2  | 9.8       |
| 40°-50°   | 595.5  | 9.8       |
| 50°-60°   | 519.2  | 8.5       |
| 60°-70°   | 383.8  | 6.3       |
| 70°-80°   | 217.2  | 3.6       |
| 80°-90°   | 58.9   | 1.0       |
| 90°-100°  | 30.6   | 0.5       |
| 100°-110° | 114.1  | 1.9       |
| 110°-120° | 302.6  | 5.0       |
| 120°-130° | 501.9  | 8.3       |
| 130°-140° | 533.2  | 8.8       |
| 140°-150° | 495.5  | 8.2       |
| 150°-160° | 398.4  | 6.6       |
| 160°-170° | 256.7  | 4.2       |
| 170°-180° | 88.4   | 1.5       |
| 0°-30°    | 986.8  | 16.2      |
| 0°-40°    | 1583.0 | 26.0      |
| 0°-60°    | 2697.7 | 44.4      |
| 0°-90°    | 3357.6 | 55.2      |
| 90°-120°  | 447.3  | 7.4       |
| 90°-150°  | 1977.9 | 32.5      |
| 90°-180°  | 2721.0 | 44.8      |
| 0°-180°   | 6079.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1319 | 1319  | 1319 | 1319  | 1319 |      |
| 5°   | 1319 | 1314  | 1300 | 1310  | 1308 | 125  |
| 15°  | 1256 | 1248  | 1232 | 1237  | 1230 | 354  |
| 25°  | 1136 | 1126  | 1105 | 1107  | 1105 | 523  |
| 35°  | 980  | 968   | 948  | 940   | 934  | 612  |
| 45°  | 798  | 789   | 770  | 756   | 751  | 616  |
| 55°  | 604  | 596   | 581  | 566   | 559  | 540  |
| 65°  | 407  | 400   | 387  | 375   | 369  | 403  |
| 75°  | 213  | 210   | 204  | 197   | 199  | 227  |
| 85°  | 52   | 51    | 50   | 46    | 44   | 58   |
| 90°  | 1    | 8     | 13   | 17    | 18   | 6    |
| 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°     | 1319.1 | 1319.1 | 1319.1 | 1319.1 | 1319.1 |
| 2.5°   | 1326.7 | 1320.4 | 1306.4 | 1319.1 | 1316.6 |
| 5°     | 1319.1 | 1314.0 | 1300.1 | 1310.2 | 1307.7 |
| 7.5°   | 1310.2 | 1302.6 | 1288.7 | 1298.8 | 1296.3 |
| 10°    | 1296.3 | 1287.4 | 1272.2 | 1282.3 | 1278.5 |
| 12.5°  | 1277.2 | 1269.6 | 1254.4 | 1260.8 | 1258.2 |
| 15°    | 1255.7 | 1248.1 | 1231.6 | 1236.7 | 1230.3 |
| 17.5°  | 1229.0 | 1221.4 | 1204.9 | 1211.3 | 1204.9 |
| 20°    | 1199.9 | 1192.3 | 1174.5 | 1178.3 | 1173.2 |
| 22.5°  | 1170.7 | 1159.3 | 1142.8 | 1142.8 | 1140.3 |
| 25°    | 1136.5 | 1126.3 | 1104.7 | 1107.3 | 1104.7 |
| 27.5°  | 1098.4 | 1089.5 | 1073.0 | 1069.2 | 1062.9 |
| 30°    | 1060.4 | 1050.2 | 1031.2 | 1027.4 | 1022.3 |
| 32.5°  | 1019.8 | 1012.2 | 991.9  | 984.3  | 979.2  |
| 35°    | 980.4  | 967.8  | 947.5  | 939.9  | 933.5  |
| 37.5°  | 936.1  | 924.6  | 904.3  | 895.5  | 889.1  |
| 40°    | 890.4  | 880.2  | 860.0  | 848.5  | 843.5  |
| 42.5°  | 846.0  | 835.9  | 815.6  | 802.9  | 795.3  |
| 45°    | 797.8  | 788.9  | 769.9  | 755.9  | 750.9  |
| 47.5°  | 750.9  | 742.0  | 721.7  | 707.7  | 700.1  |
| 50°    | 701.4  | 695.1  | 677.3  | 659.5  | 653.2  |
| 52.5°  | 653.2  | 644.3  | 627.8  | 613.9  | 605.0  |
| 55°    | 603.7  | 596.1  | 580.9  | 565.7  | 559.3  |
| 57.5°  | 554.3  | 547.9  | 531.4  | 516.2  | 511.2  |
| 60°    | 504.8  | 499.7  | 482.0  | 468.0  | 464.2  |
| 62.5°  | 456.6  | 447.7  | 435.0  | 422.4  | 417.3  |
| 65°    | 407.1  | 399.5  | 386.9  | 375.4  | 369.1  |
| 67.5°  | 356.4  | 350.1  | 338.7  | 329.8  | 324.7  |
| 70°    | 309.5  | 304.4  | 293.0  | 284.1  | 279.0  |
| 72.5°  | 261.3  | 256.2  | 249.9  | 241.0  | 237.2  |
| 75°    | 213.1  | 210.5  | 204.2  | 196.6  | 199.1  |
| 77.5°  | 170.0  | 164.9  | 162.4  | 158.5  | 154.7  |
| 80°    | 126.8  | 125.6  | 123.0  | 119.2  | 116.7  |
| 82.5°  | 86.2   | 86.2   | 85.0   | 79.9   | 79.9   |
| 85°    | 52.0   | 50.7   | 49.5   | 45.7   | 44.4   |
| 87.5°  | 22.8   | 20.3   | 17.8   | 14.0   | 12.7   |
| 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)