

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: P1008679

Luminaire Tested: S122DIP-B1005D725UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008679  
REPORT IS A COMBINATION OF REPORTS P983701 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B1005D725UB27-4F0-XX-W2A-D  
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

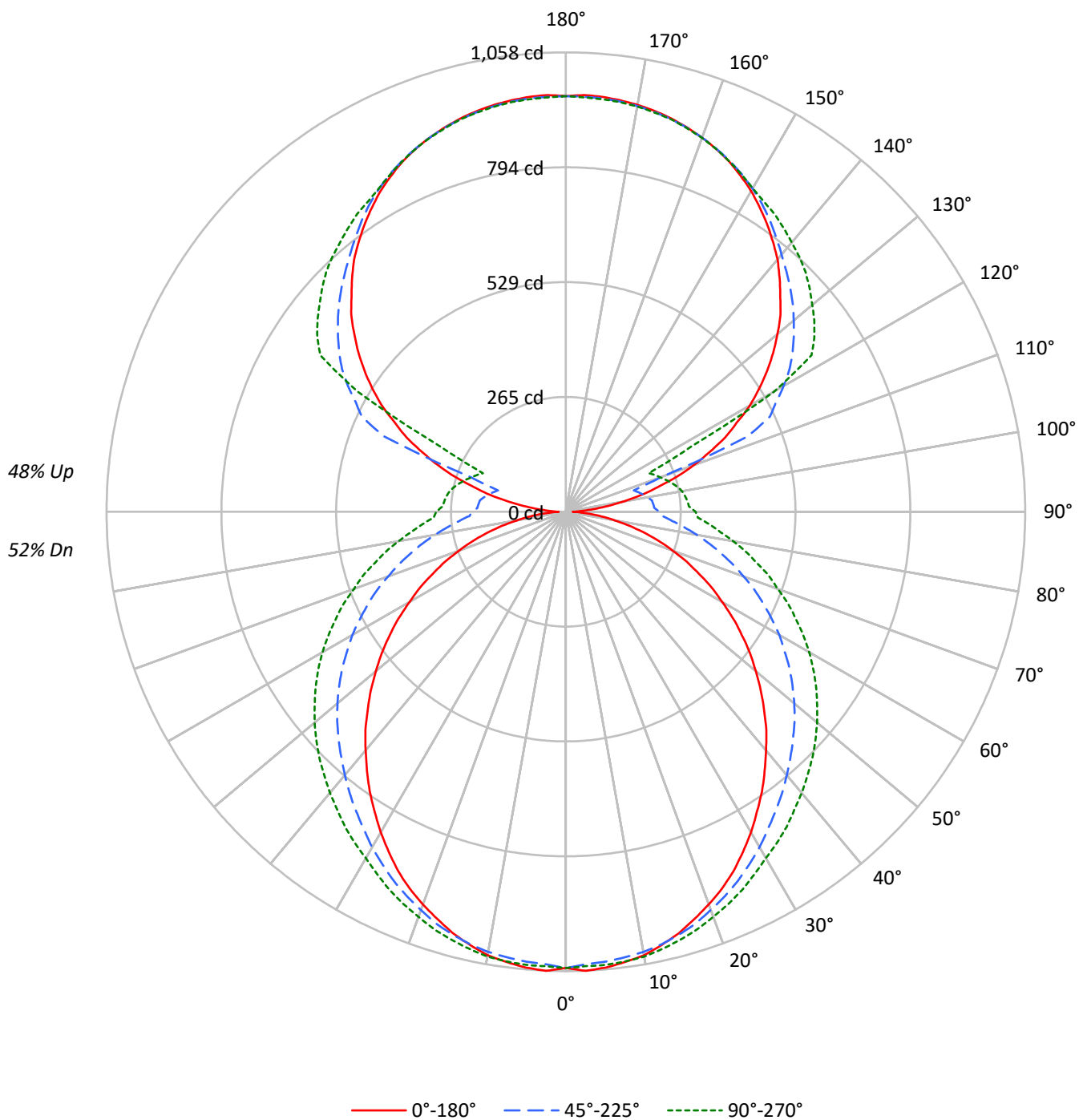
Lumens per Lamp: N/A  
Luminaire Lumens: 6817.0 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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

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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   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 58 | 58 | 58 |
| 1   | 97  | 92  | 87  | 83  | 89  | 85  | 81  | 77  | 72 | 69 | 66 | 60 | 58 | 56 | 49 | 47 | 46 |
| 2   | 87  | 79  | 72  | 67  | 80  | 73  | 67  | 62  | 62 | 58 | 54 | 52 | 48 | 45 | 42 | 40 | 38 |
| 3   | 79  | 69  | 61  | 55  | 73  | 64  | 57  | 51  | 54 | 49 | 44 | 45 | 41 | 38 | 37 | 34 | 31 |
| 4   | 72  | 61  | 52  | 46  | 66  | 56  | 49  | 43  | 48 | 42 | 37 | 40 | 36 | 32 | 33 | 29 | 27 |
| 5   | 66  | 54  | 45  | 39  | 61  | 50  | 42  | 37  | 43 | 37 | 32 | 36 | 31 | 27 | 29 | 26 | 23 |
| 6   | 61  | 48  | 40  | 34  | 56  | 45  | 37  | 32  | 38 | 32 | 28 | 32 | 27 | 24 | 26 | 23 | 20 |
| 7   | 56  | 43  | 35  | 29  | 52  | 40  | 33  | 28  | 35 | 29 | 24 | 29 | 24 | 21 | 24 | 20 | 18 |
| 8   | 52  | 39  | 31  | 26  | 48  | 37  | 29  | 24  | 31 | 26 | 21 | 27 | 22 | 19 | 22 | 18 | 16 |
| 9   | 49  | 36  | 28  | 23  | 45  | 33  | 26  | 22  | 29 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 |
| 10  | 45  | 33  | 25  | 20  | 42  | 31  | 24  | 19  | 27 | 21 | 17 | 23 | 18 | 15 | 19 | 15 | 13 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16632 | 16632 | 16632 |
| 5°  | 16706 | 15921 | 15831 |
| 10° | 16595 | 15371 | 15146 |
| 15° | 16360 | 14799 | 14442 |
| 20° | 16066 | 14201 | 13775 |
| 25° | 15773 | 13627 | 13169 |
| 30° | 15364 | 13044 | 12569 |
| 35° | 14950 | 12483 | 12129 |
| 40° | 14515 | 11997 | 11692 |
| 45° | 14100 | 11555 | 11311 |
| 50° | 13655 | 11149 | 10935 |
| 55° | 13187 | 10718 | 10551 |
| 60° | 12614 | 10269 | 10149 |
| 65° | 12016 | 9752  | 9684  |
| 70° | 11342 | 9198  | 9185  |
| 75° | 10478 | 8643  | 8715  |
| 80° | 9117  | 8066  | 8226  |
| 85° | 7741  | 7522  | 7807  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.6   | 1.5       |
| 10°-20°   | 285.7  | 4.2       |
| 20°-30°   | 432.8  | 6.3       |
| 30°-40°   | 527.1  | 7.7       |
| 40°-50°   | 567.1  | 8.3       |
| 50°-60°   | 550.7  | 8.1       |
| 60°-70°   | 481.0  | 7.1       |
| 70°-80°   | 370.2  | 5.4       |
| 80°-90°   | 249.6  | 3.7       |
| 90°-100°  | 202.6  | 3.0       |
| 100°-110° | 242.6  | 3.6       |
| 110°-120° | 394.5  | 5.8       |
| 120°-130° | 563.5  | 8.3       |
| 130°-140° | 569.1  | 8.3       |
| 140°-150° | 514.2  | 7.5       |
| 150°-160° | 410.8  | 6.0       |
| 160°-170° | 264.7  | 3.9       |
| 170°-180° | 91.1   | 1.3       |
| <hr/>     |        |           |
| 0°-30°    | 818.1  | 12.0      |
| 0°-40°    | 1345.2 | 19.7      |
| 0°-60°    | 2463.0 | 36.1      |
| 0°-90°    | 3563.8 | 52.3      |
| 90°-120°  | 839.7  | 12.3      |
| 90°-150°  | 2486.6 | 36.5      |
| 90°-180°  | 3253.0 | 47.7      |
| 0°-180°   | 6817.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1051 | 1051  | 1051 | 1051  | 1051 |      |
| 5°   | 1054 | 1049  | 1040 | 1049  | 1048 | 100  |
| 15°  | 1005 | 1008  | 1008 | 1022  | 1020 | 283  |
| 25°  | 914  | 924   | 938  | 956   | 961  | 420  |
| 35°  | 787  | 813   | 842  | 876   | 886  | 492  |
| 45°  | 646  | 687   | 740  | 787   | 802  | 498  |
| 55°  | 495  | 550   | 629  | 684   | 704  | 443  |
| 65°  | 338  | 413   | 502  | 565   | 585  | 336  |
| 75°  | 187  | 273   | 370  | 436   | 455  | 198  |
| 85°  | 55   | 149   | 247  | 311   | 332  | 58   |
| 90°  | 16   | 112   | 215  | 279   | 299  | 13   |
| 95°  | 57   | 106   | 202  | 264   | 281  | 63   |
| 105° | 218  | 283   | 173  | 234   | 254  | 234  |
| 115° | 404  | 433   | 519  | 244   | 211  | 398  |
| 125° | 566  | 575   | 637  | 683   | 699  | 505  |
| 135° | 698  | 709   | 731  | 770   | 781  | 540  |
| 145° | 808  | 808   | 819  | 833   | 838  | 506  |
| 155° | 890  | 884   | 892  | 896   | 891  | 410  |
| 165° | 938  | 934   | 936  | 941   | 936  | 265  |
| 175° | 959  | 954   | 956  | 961   | 954  | 91   |
| 180° | 957  | 957   | 957  | 957   | 957  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1050.7 | 1050.7 | 1050.7 | 1050.7 | 1050.7 |
| 2.5°   | 1058.3 | 1053.7 | 1043.1 | 1050.7 | 1047.6 |
| 5°     | 1053.7 | 1049.2 | 1040.0 | 1049.2 | 1047.6 |
| 7.5°   | 1046.1 | 1043.1 | 1035.4 | 1046.1 | 1044.6 |
| 10°    | 1037.0 | 1033.9 | 1029.4 | 1041.5 | 1040.0 |
| 12.5°  | 1021.7 | 1023.3 | 1020.2 | 1032.4 | 1030.9 |
| 15°    | 1005.0 | 1008.0 | 1008.0 | 1021.7 | 1020.2 |
| 17.5°  | 983.7  | 989.8  | 994.3  | 1008.0 | 1008.0 |
| 20°    | 962.4  | 970.0  | 976.1  | 992.8  | 992.8  |
| 22.5°  | 939.5  | 948.7  | 957.8  | 974.5  | 977.6  |
| 25°    | 913.6  | 924.3  | 938.0  | 956.3  | 960.8  |
| 27.5°  | 883.2  | 899.9  | 915.2  | 938.0  | 941.0  |
| 30°    | 852.7  | 872.5  | 892.3  | 916.7  | 921.2  |
| 32.5°  | 819.2  | 842.1  | 866.4  | 895.4  | 904.5  |
| 35°    | 787.2  | 813.1  | 842.1  | 875.6  | 886.2  |
| 37.5°  | 752.2  | 781.2  | 817.7  | 854.2  | 864.9  |
| 40°    | 717.2  | 750.7  | 791.8  | 831.4  | 845.1  |
| 42.5°  | 683.7  | 717.2  | 765.9  | 810.1  | 823.8  |
| 45°    | 645.6  | 686.7  | 740.0  | 787.2  | 802.5  |
| 47.5°  | 609.1  | 653.2  | 714.2  | 762.9  | 779.6  |
| 50°    | 571.0  | 618.2  | 686.7  | 738.5  | 755.3  |
| 52.5°  | 534.5  | 584.7  | 657.8  | 711.1  | 729.4  |
| 55°    | 494.9  | 549.7  | 628.9  | 683.7  | 703.5  |
| 57.5°  | 456.8  | 517.7  | 596.9  | 656.3  | 676.1  |
| 60°    | 415.7  | 481.2  | 568.0  | 625.8  | 647.2  |
| 62.5°  | 379.2  | 447.7  | 534.5  | 596.9  | 616.7  |
| 65°    | 338.0  | 412.7  | 502.5  | 564.9  | 584.7  |
| 67.5°  | 301.5  | 379.2  | 470.5  | 533.0  | 554.3  |
| 70°    | 261.9  | 341.1  | 435.5  | 501.0  | 519.2  |
| 72.5°  | 225.4  | 307.6  | 403.5  | 467.5  | 490.3  |
| 75°    | 187.3  | 272.6  | 370.0  | 435.5  | 455.3  |
| 77.5°  | 150.7  | 239.1  | 338.0  | 403.5  | 424.8  |
| 80°    | 114.2  | 207.1  | 306.1  | 370.0  | 391.3  |
| 82.5°  | 83.7   | 175.1  | 275.6  | 339.6  | 359.4  |
| 85°    | 54.8   | 149.2  | 246.7  | 310.6  | 332.0  |
| 87.5°  | 33.5   | 124.9  | 222.3  | 284.7  | 304.5  |
| 90°    | 15.9   | 111.8  | 214.9  | 279.2  | 298.9  |
| 92.5°  | 31.0   | 108.9  | 203.9  | 264.7  | 283.7  |
| 95°    | 57.2   | 105.9  | 202.1  | 263.5  | 281.0  |
| 97.5°  | 91.7   | 100.3  | 199.8  | 258.2  | 277.2  |
| 100°   | 133.3  | 94.7   | 191.8  | 253.6  | 271.8  |
| 102.5° | 177.4  | 226.3  | 182.5  | 244.9  | 263.8  |
| 105°   | 218.2  | 283.1  | 173.3  | 234.1  | 253.6  |
| 107.5° | 267.3  | 321.3  | 163.9  | 223.4  | 242.8  |
| 110°   | 312.9  | 357.9  | 232.4  | 211.8  | 231.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 357.3 | 394.1 | 452.4 | 202.5 | 221.4 |
| 115°   | 404.4 | 432.9 | 518.8 | 243.7 | 210.6 |
| 117.5° | 443.7 | 469.7 | 545.5 | 492.1 | 325.8 |
| 120°   | 489.5 | 505.9 | 579.3 | 630.2 | 553.5 |
| 122.5° | 528.2 | 540.8 | 611.0 | 656.2 | 670.6 |
| 125°   | 566.1 | 575.1 | 637.1 | 683.0 | 698.8 |
| 127.5° | 602.1 | 610.3 | 661.8 | 706.9 | 721.3 |
| 130°   | 636.1 | 645.7 | 685.3 | 729.4 | 740.9 |
| 132.5° | 670.7 | 678.2 | 708.7 | 750.0 | 761.5 |
| 135°   | 698.3 | 709.4 | 730.8 | 769.8 | 780.6 |
| 137.5° | 728.8 | 737.1 | 751.6 | 787.6 | 796.1 |
| 140°   | 758.6 | 762.6 | 773.2 | 803.9 | 809.5 |
| 142.5° | 783.5 | 786.9 | 795.9 | 819.7 | 823.8 |
| 145°   | 808.3 | 807.6 | 819.4 | 833.4 | 837.5 |
| 147.5° | 831.2 | 829.1 | 840.9 | 845.8 | 847.7 |
| 150°   | 853.3 | 848.5 | 859.6 | 863.7 | 860.3 |
| 152.5° | 872.1 | 866.5 | 876.9 | 881.1 | 876.2 |
| 155°   | 890.1 | 883.8 | 892.1 | 896.3 | 890.8 |
| 157.5° | 904.6 | 899.1 | 905.3 | 910.1 | 904.6 |
| 160°   | 917.1 | 912.9 | 917.1 | 921.2 | 916.4 |
| 162.5° | 928.2 | 924.0 | 927.5 | 932.3 | 926.1 |
| 165°   | 937.9 | 933.7 | 935.8 | 940.6 | 935.8 |
| 167.5° | 945.5 | 941.3 | 943.4 | 948.2 | 942.0 |
| 170°   | 951.7 | 947.6 | 948.9 | 953.8 | 947.6 |
| 172.5° | 955.9 | 951.7 | 953.1 | 957.9 | 951.7 |
| 175°   | 959.3 | 954.5 | 955.9 | 960.7 | 953.8 |
| 177.5° | 960.7 | 955.9 | 956.6 | 961.4 | 955.2 |
| 180°   | 957.2 | 957.2 | 957.2 | 957.2 | 957.2 |

(END OF REPORT)