

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: P995838

Luminaire Tested: S122DRP-B675DB2750-4F0-XX-W2A-D\_4000K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P995838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DRP-B675DB2750-4F0-XX-W2A-D\_4000K  
Description: Define 2 Direct Perimeter with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

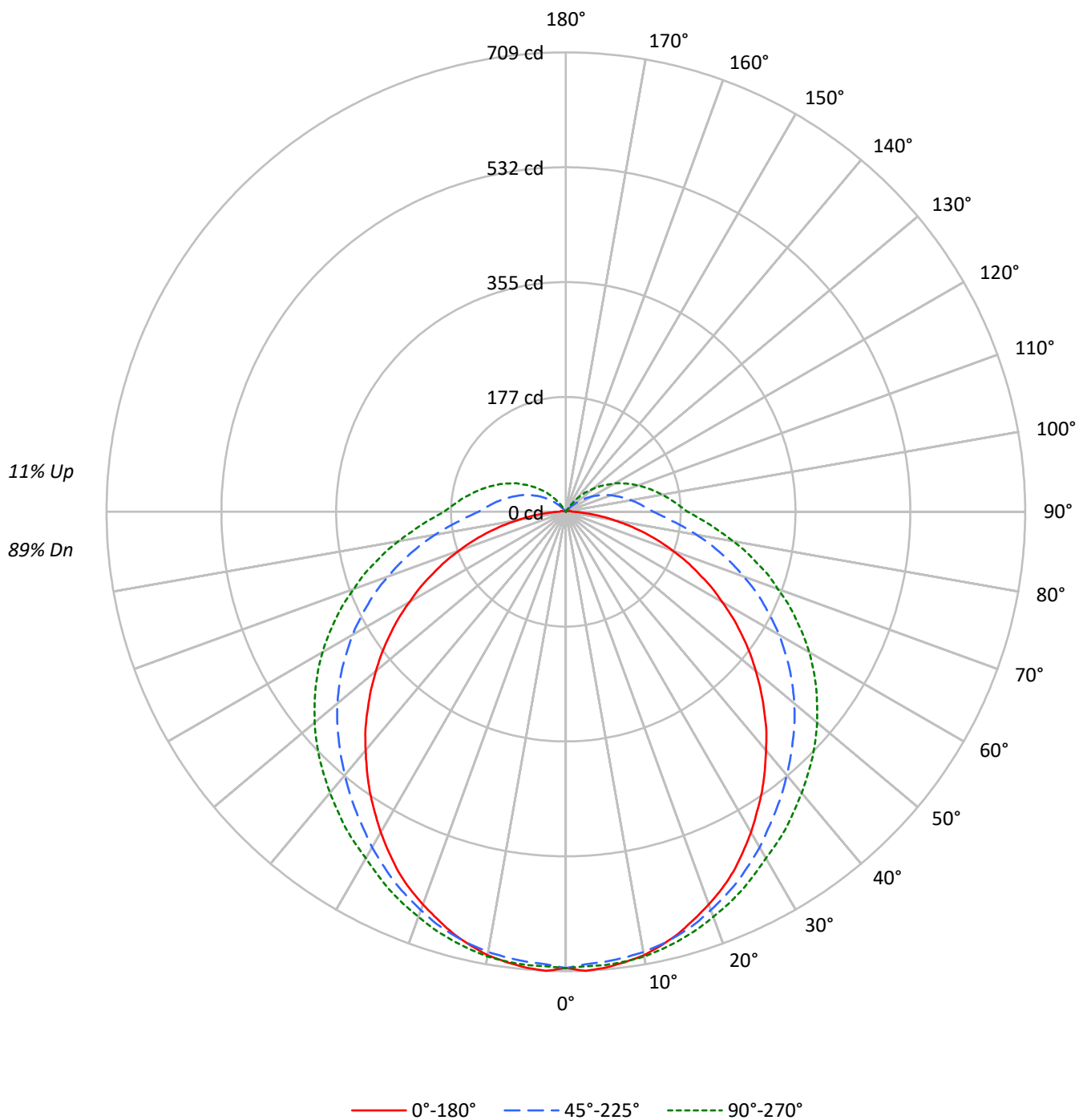
Lumens per Lamp: N/A  
Luminaire Lumens: 2687.0 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 35.9  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 |
| 1   | 104 | 98  | 93  | 88  | 100 | 95  | 90  | 86  | 88  | 85  | 81  | 82 | 79 | 77 | 77 | 75 | 72 |
| 2   | 94  | 84  | 77  | 70  | 90  | 81  | 74  | 68  | 76  | 70  | 65  | 71 | 66 | 62 | 66 | 62 | 59 |
| 3   | 85  | 73  | 64  | 57  | 81  | 71  | 63  | 56  | 66  | 59  | 54  | 62 | 56 | 51 | 58 | 53 | 49 |
| 4   | 77  | 64  | 55  | 48  | 74  | 62  | 54  | 47  | 58  | 51  | 45  | 55 | 48 | 43 | 51 | 46 | 42 |
| 5   | 71  | 57  | 48  | 41  | 68  | 56  | 47  | 40  | 52  | 44  | 39  | 49 | 42 | 37 | 46 | 40 | 36 |
| 6   | 65  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 47  | 39  | 34  | 44 | 37 | 32 | 42 | 36 | 31 |
| 7   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 43  | 35  | 30  | 40 | 34 | 29 | 38 | 32 | 28 |
| 8   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 27  | 39  | 32  | 26  | 37 | 30 | 25 | 35 | 29 | 25 |
| 9   | 52  | 39  | 30  | 25  | 50  | 38  | 30  | 24  | 36  | 29  | 24  | 34 | 27 | 23 | 32 | 26 | 22 |
| 10  | 49  | 36  | 28  | 22  | 47  | 35  | 27  | 22  | 33  | 26  | 21  | 31 | 25 | 21 | 30 | 24 | 20 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11147 | 11147 | 11147 |
| 5°  | 11221 | 11077 | 11158 |
| 10° | 11171 | 11089 | 11205 |
| 15° | 11039 | 11072 | 11206 |
| 20° | 10865 | 11020 | 11209 |
| 25° | 10696 | 10981 | 11248 |
| 30° | 10446 | 10932 | 11287 |
| 35° | 10195 | 10906 | 11478 |
| 40° | 9933  | 10966 | 11704 |
| 45° | 9686  | 11103 | 12039 |
| 50° | 9424  | 11335 | 12466 |
| 55° | 9154  | 11632 | 13012 |
| 60° | 8820  | 12052 | 13730 |
| 65° | 8487  | 12615 | 14679 |
| 70° | 8122  | 13510 | 16106 |
| 75° | 7676  | 15168 | 18666 |
| 80° | 6974  | 18696 | 23911 |
| 85° | 6665  | 30022 | 40411 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 74067 cd/sqm

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CATALOG NUMBER: S122DRP-B675DB2750-4F0-XX-W2A-D\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.8   | 2.5       |
| 10°-20°   | 191.5  | 7.1       |
| 20°-30°   | 290.1  | 10.8      |
| 30°-40°   | 353.3  | 13.1      |
| 40°-50°   | 380.1  | 14.1      |
| 50°-60°   | 369.1  | 13.7      |
| 60°-70°   | 322.4  | 12.0      |
| 70°-80°   | 248.1  | 9.2       |
| 80°-90°   | 166.2  | 6.2       |
| 90°-100°  | 114.6  | 4.3       |
| 100°-110° | 83.7   | 3.1       |
| 110°-120° | 55.3   | 2.1       |
| 120°-130° | 30.8   | 1.1       |
| 130°-140° | 12.9   | 0.5       |
| 140°-150° | 2.2    | 0.1       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| <hr/>     |        |           |
| 0°-30°    | 548.3  | 20.4      |
| 0°-40°    | 901.6  | 33.6      |
| 0°-60°    | 1650.8 | 61.4      |
| 0°-90°    | 2387.4 | 88.9      |
| 90°-120°  | 253.6  | 9.4       |
| 90°-150°  | 299.5  | 11.1      |
| 90°-180°  | 300.0  | 11.2      |
| 0°-180°   | 2687.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 704 | 704   | 704 | 704   | 704 |      |
| 5°   | 706 | 703   | 697 | 703   | 702 | 67   |
| 15°  | 674 | 676   | 676 | 685   | 684 | 190  |
| 25°  | 612 | 620   | 629 | 641   | 644 | 282  |
| 35°  | 528 | 545   | 564 | 587   | 594 | 330  |
| 45°  | 433 | 460   | 496 | 528   | 538 | 334  |
| 55°  | 332 | 368   | 422 | 458   | 472 | 297  |
| 65°  | 227 | 277   | 337 | 379   | 392 | 225  |
| 75°  | 126 | 183   | 248 | 292   | 305 | 133  |
| 85°  | 37  | 100   | 165 | 208   | 222 | 39   |
| 90°  | 10  | 69    | 135 | 176   | 188 | 7    |
| 95°  | 8   | 56    | 117 | 156   | 168 | 6    |
| 105° | 5   | 35    | 88  | 124   | 135 | 6    |
| 115° | 4   | 15    | 61  | 92    | 103 | 4    |
| 125° | 2   | 2     | 35  | 62    | 71  | 2    |
| 135° | 1   | 1     | 11  | 33    | 41  | 1    |
| 145° | 0   | 0     | 0   | 6     | 11  | 0    |
| 155° | 0   | 0     | 0   | 0     | 0   | 0    |
| 165° | 0   | 0     | 0   | 0     | 0   | 0    |
| 175° | 0   | 0     | 0   | 0     | 0   | 0    |
| 180° | 0   | 0     | 0   | 0     | 0   | 0    |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 |
| 2.5°   | 709.3 | 706.2 | 699.1 | 704.2 | 702.2 |
| 5°     | 706.2 | 703.2 | 697.1 | 703.2 | 702.2 |
| 7.5°   | 701.1 | 699.1 | 694.0 | 701.1 | 700.1 |
| 10°    | 695.0 | 693.0 | 689.9 | 698.1 | 697.1 |
| 12.5°  | 684.8 | 685.8 | 683.8 | 692.0 | 690.9 |
| 15°    | 673.6 | 675.6 | 675.6 | 684.8 | 683.8 |
| 17.5°  | 659.3 | 663.4 | 666.4 | 675.6 | 675.6 |
| 20°    | 645.0 | 650.1 | 654.2 | 665.4 | 665.4 |
| 22.5°  | 629.7 | 635.8 | 641.9 | 653.2 | 655.2 |
| 25°    | 612.4 | 619.5 | 628.7 | 640.9 | 644.0 |
| 27.5°  | 591.9 | 603.2 | 613.4 | 628.7 | 630.7 |
| 30°    | 571.5 | 584.8 | 598.1 | 614.4 | 617.5 |
| 32.5°  | 549.1 | 564.4 | 580.7 | 600.1 | 606.2 |
| 35°    | 527.6 | 545.0 | 564.4 | 586.8 | 594.0 |
| 37.5°  | 504.2 | 523.6 | 548.1 | 572.5 | 579.7 |
| 40°    | 480.7 | 503.1 | 530.7 | 557.2 | 566.4 |
| 42.5°  | 458.2 | 480.7 | 513.4 | 543.0 | 552.1 |
| 45°    | 432.7 | 460.3 | 496.0 | 527.6 | 537.8 |
| 47.5°  | 408.2 | 437.8 | 478.7 | 511.3 | 522.5 |
| 50°    | 382.7 | 414.4 | 460.3 | 495.0 | 506.2 |
| 52.5°  | 358.2 | 391.9 | 440.9 | 476.6 | 488.9 |
| 55°    | 331.7 | 368.4 | 421.5 | 458.2 | 471.5 |
| 57.5°  | 306.2 | 347.0 | 400.1 | 439.9 | 453.1 |
| 60°    | 278.6 | 322.5 | 380.7 | 419.5 | 433.7 |
| 62.5°  | 254.1 | 300.1 | 358.2 | 400.1 | 413.3 |
| 65°    | 226.6 | 276.6 | 336.8 | 378.6 | 391.9 |
| 67.5°  | 202.1 | 254.1 | 315.4 | 357.2 | 371.5 |
| 70°    | 175.5 | 228.6 | 291.9 | 335.8 | 348.0 |
| 72.5°  | 151.0 | 206.2 | 270.5 | 313.3 | 328.6 |
| 75°    | 125.5 | 182.7 | 248.0 | 291.9 | 305.2 |
| 77.5°  | 101.0 | 160.2 | 226.6 | 270.5 | 284.7 |
| 80°    | 76.5  | 138.8 | 205.1 | 248.0 | 262.3 |
| 82.5°  | 56.1  | 117.4 | 184.7 | 227.6 | 240.9 |
| 85°    | 36.7  | 100.0 | 165.3 | 208.2 | 222.5 |
| 87.5°  | 22.5  | 83.7  | 149.0 | 190.8 | 204.1 |
| 90°    | 10.2  | 69.4  | 134.7 | 175.5 | 187.8 |
| 92.5°  | 9.2   | 63.3  | 125.5 | 165.3 | 177.6 |
| 95°    | 8.2   | 56.1  | 117.4 | 156.1 | 168.4 |
| 97.5°  | 7.1   | 51.0  | 110.2 | 148.0 | 160.2 |
| 100°   | 7.1   | 44.9  | 102.1 | 139.8 | 151.0 |
| 102.5° | 6.1   | 39.8  | 94.9  | 131.7 | 142.9 |
| 105°   | 5.1   | 34.7  | 87.8  | 123.5 | 134.7 |
| 107.5° | 5.1   | 29.6  | 80.6  | 115.3 | 126.6 |
| 110°   | 4.1   | 24.5  | 74.5  | 107.2 | 118.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 4.1 | 20.4  | 67.4 | 100.0 | 111.2 |
| 115°   | 4.1 | 15.3  | 61.2 | 91.9  | 103.1 |
| 117.5° | 3.1 | 11.2  | 54.1 | 84.7  | 94.9  |
| 120°   | 3.1 | 7.1   | 48.0 | 76.5  | 87.8  |
| 122.5° | 3.1 | 4.1   | 41.8 | 69.4  | 78.6  |
| 125°   | 2.0 | 2.0   | 34.7 | 62.3  | 71.4  |
| 127.5° | 2.0 | 1.0   | 28.6 | 54.1  | 63.3  |
| 130°   | 2.0 | 1.0   | 22.5 | 46.9  | 55.1  |
| 132.5° | 2.0 | 1.0   | 16.3 | 39.8  | 48.0  |
| 135°   | 1.0 | 1.0   | 11.2 | 32.7  | 40.8  |
| 137.5° | 1.0 | 1.0   | 6.1  | 25.5  | 32.7  |
| 140°   | 1.0 | 0.0   | 2.0  | 18.4  | 24.5  |
| 142.5° | 1.0 | 0.0   | 0.0  | 12.2  | 17.3  |
| 145°   | 0.0 | 0.0   | 0.0  | 6.1   | 11.2  |
| 147.5° | 0.0 | 0.0   | 0.0  | 1.0   | 4.1   |
| 150°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 152.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 155°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 157.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 160°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 162.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 165°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 167.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 170°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 172.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 175°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 177.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 180°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |

(END OF REPORT)