

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: P996847

Luminaire Tested: S125DRP-B375DB27-4F0-XX-W2A-D

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P996847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DRP-B375DB27-4F0-XX-W2A-D  
Description: Define 5 Direct Perimeter with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

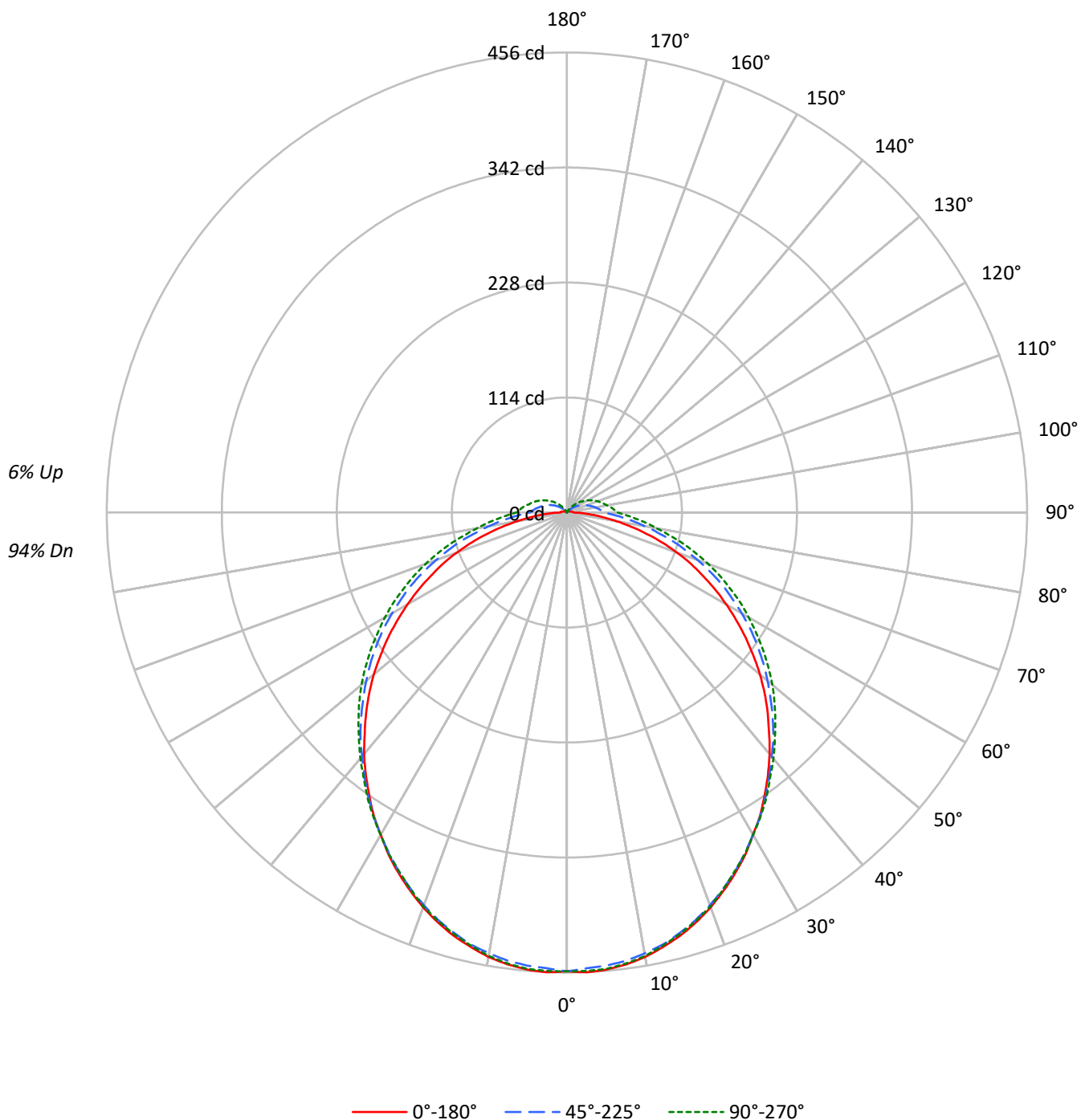
Lumens per Lamp: N/A  
Luminaire Lumens: 1409.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 13  
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   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 |
| 1   | 106 | 101 | 96  | 92  | 103 | 98  | 94  | 90  | 93  | 89  | 86  | 88  | 85  | 82  | 83 | 81 | 79 |
| 2   | 96  | 88  | 80  | 74  | 93  | 85  | 78  | 73  | 81  | 75  | 70  | 76  | 72  | 68  | 72 | 69 | 65 |
| 3   | 88  | 77  | 68  | 61  | 84  | 75  | 67  | 60  | 71  | 64  | 59  | 67  | 61  | 57  | 64 | 59 | 55 |
| 4   | 80  | 68  | 59  | 52  | 77  | 66  | 58  | 51  | 63  | 55  | 50  | 60  | 53  | 48  | 57 | 51 | 47 |
| 5   | 74  | 60  | 51  | 44  | 71  | 59  | 50  | 44  | 56  | 49  | 43  | 53  | 47  | 42  | 51 | 45 | 41 |
| 6   | 68  | 54  | 45  | 39  | 66  | 53  | 45  | 38  | 51  | 43  | 38  | 48  | 42  | 37  | 46 | 40 | 36 |
| 7   | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 34  | 46  | 39  | 33  | 44  | 37  | 33  | 42 | 36 | 32 |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 42  | 35  | 30  | 40  | 34  | 29  | 39 | 33 | 29 |
| 9   | 55  | 41  | 33  | 27  | 53  | 40  | 33  | 27  | 39  | 32  | 27  | 37  | 31  | 26  | 36 | 30 | 26 |
| 10  | 51  | 38  | 30  | 25  | 50  | 37  | 30  | 25  | 36  | 29  | 24  | 35  | 28  | 24  | 33 | 28 | 23 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2914 | 2914 | 2914 |
| 5°  | 2925 | 2899 | 2919 |
| 10° | 2910 | 2887 | 2904 |
| 15° | 2881 | 2863 | 2869 |
| 20° | 2840 | 2825 | 2834 |
| 25° | 2790 | 2780 | 2778 |
| 30° | 2728 | 2728 | 2731 |
| 35° | 2672 | 2686 | 2696 |
| 40° | 2615 | 2640 | 2663 |
| 45° | 2550 | 2614 | 2647 |
| 50° | 2489 | 2587 | 2649 |
| 55° | 2416 | 2575 | 2650 |
| 60° | 2337 | 2565 | 2668 |
| 65° | 2257 | 2576 | 2705 |
| 70° | 2171 | 2581 | 2789 |
| 75° | 2030 | 2671 | 2948 |
| 80° | 1860 | 2911 | 3339 |
| 85° | 1801 | 4029 | 5014 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 8578 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.0   | 3.1       |
| 10°-20°   | 122.2  | 8.7       |
| 20°-30°   | 181.7  | 12.9      |
| 30°-40°   | 215.2  | 15.3      |
| 40°-50°   | 222.5  | 15.8      |
| 50°-60°   | 204.9  | 14.5      |
| 60°-70°   | 165.7  | 11.8      |
| 70°-80°   | 110.8  | 7.9       |
| 80°-90°   | 57.3   | 4.1       |
| 90°-100°  | 32.3   | 2.3       |
| 100°-110° | 23.8   | 1.7       |
| 110°-120° | 15.9   | 1.1       |
| 120°-130° | 9.0    | 0.6       |
| 130°-140° | 3.9    | 0.3       |
| 140°-150° | 0.8    | 0.1       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| <hr/>     |        |           |
| 0°-30°    | 346.9  | 24.6      |
| 0°-40°    | 562.1  | 39.9      |
| 0°-60°    | 989.5  | 70.2      |
| 0°-90°    | 1323.2 | 93.9      |
| 90°-120°  | 72.0   | 5.1       |
| 90°-150°  | 85.7   | 6.1       |
| 90°-180°  | 86.0   | 6.1       |
| 0°-180°   | 1409.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 455 | 455   | 455 | 455   | 455 |      |
| 5°   | 455 | 454   | 451 | 454   | 454 | 43   |
| 15°  | 434 | 435   | 432 | 434   | 432 | 122  |
| 25°  | 395 | 396   | 393 | 395   | 393 | 182  |
| 35°  | 342 | 345   | 343 | 345   | 345 | 214  |
| 45°  | 281 | 286   | 288 | 292   | 292 | 217  |
| 55°  | 216 | 223   | 230 | 235   | 237 | 193  |
| 65°  | 149 | 159   | 170 | 177   | 178 | 148  |
| 75°  | 82  | 94    | 108 | 117   | 119 | 87   |
| 85°  | 24  | 39    | 55  | 65    | 68  | 26   |
| 90°  | 7   | 21    | 37  | 47    | 50  | 5    |
| 95°  | 6   | 17    | 33  | 42    | 46  | 5    |
| 105° | 4   | 11    | 24  | 33    | 37  | 4    |
| 115° | 3   | 6     | 17  | 25    | 28  | 3    |
| 125° | 2   | 1     | 10  | 17    | 20  | 1    |
| 135° | 1   | 0     | 4   | 9     | 12  | 1    |
| 145° | 0   | 0     | 0   | 2     | 4   | 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°     | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 |
| 2.5°   | 456.2 | 455.3 | 452.2 | 455.3 | 454.8 |
| 5°     | 454.8 | 453.9 | 450.8 | 454.4 | 453.9 |
| 7.5°   | 451.7 | 451.3 | 448.1 | 451.3 | 450.8 |
| 10°    | 447.3 | 447.3 | 443.7 | 446.8 | 446.4 |
| 12.5°  | 441.0 | 441.5 | 438.8 | 441.0 | 439.7 |
| 15°    | 434.3 | 434.8 | 431.6 | 434.3 | 432.5 |
| 17.5°  | 425.9 | 426.7 | 423.6 | 425.9 | 424.5 |
| 20°    | 416.5 | 417.4 | 414.3 | 415.6 | 415.6 |
| 22.5°  | 405.8 | 407.6 | 404.0 | 405.8 | 404.4 |
| 25°    | 394.6 | 396.0 | 393.3 | 395.1 | 392.9 |
| 27.5°  | 382.6 | 384.4 | 381.3 | 382.6 | 381.7 |
| 30°    | 368.8 | 371.4 | 368.8 | 369.7 | 369.2 |
| 32.5°  | 356.3 | 358.5 | 356.7 | 357.6 | 357.2 |
| 35°    | 341.6 | 344.7 | 343.4 | 344.7 | 344.7 |
| 37.5°  | 327.3 | 330.0 | 329.5 | 331.3 | 330.9 |
| 40°    | 312.6 | 316.2 | 315.7 | 317.5 | 318.4 |
| 42.5°  | 296.5 | 301.4 | 302.8 | 305.0 | 305.0 |
| 45°    | 281.4 | 286.3 | 288.5 | 291.6 | 292.1 |
| 47.5°  | 265.8 | 270.2 | 273.8 | 278.3 | 279.1 |
| 50°    | 249.7 | 254.6 | 259.5 | 264.4 | 265.8 |
| 52.5°  | 232.8 | 239.0 | 245.3 | 250.6 | 251.5 |
| 55°    | 216.3 | 223.4 | 230.5 | 235.4 | 237.2 |
| 57.5°  | 199.3 | 207.8 | 215.8 | 221.2 | 222.5 |
| 60°    | 182.4 | 191.3 | 200.2 | 206.9 | 208.2 |
| 62.5°  | 165.9 | 174.8 | 184.6 | 192.2 | 194.0 |
| 65°    | 148.9 | 159.2 | 169.9 | 176.6 | 178.4 |
| 67.5°  | 133.3 | 143.1 | 153.8 | 161.9 | 164.1 |
| 70°    | 115.9 | 126.2 | 137.8 | 146.3 | 148.9 |
| 72.5°  | 99.0  | 109.7 | 122.6 | 132.0 | 133.8 |
| 75°    | 82.0  | 93.6  | 107.9 | 116.8 | 119.1 |
| 77.5°  | 65.5  | 78.9  | 92.3  | 102.1 | 103.9 |
| 80°    | 50.4  | 63.8  | 78.9  | 88.7  | 90.5  |
| 82.5°  | 36.6  | 50.8  | 66.4  | 75.8  | 79.4  |
| 85°    | 24.5  | 39.2  | 54.8  | 64.7  | 68.2  |
| 87.5°  | 15.6  | 29.9  | 45.0  | 55.3  | 58.4  |
| 90°    | 7.1   | 21.4  | 36.6  | 46.8  | 49.9  |
| 92.5°  | 6.2   | 19.2  | 34.8  | 44.6  | 47.7  |
| 95°    | 5.8   | 17.4  | 32.6  | 42.4  | 45.5  |
| 97.5°  | 5.4   | 16.1  | 30.8  | 40.1  | 43.3  |
| 100°   | 4.9   | 14.3  | 28.5  | 37.9  | 40.6  |
| 102.5° | 4.5   | 12.9  | 26.8  | 35.7  | 38.3  |
| 105°   | 4.0   | 11.1  | 24.5  | 33.4  | 36.6  |
| 107.5° | 3.6   | 9.8   | 22.7  | 31.7  | 34.3  |
| 110°   | 3.1   | 8.5   | 21.0  | 29.4  | 32.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 3.1 | 7.1   | 19.2 | 27.2  | 30.3 |
| 115°   | 2.7 | 5.8   | 17.4 | 25.4  | 28.1 |
| 117.5° | 2.2 | 4.5   | 15.6 | 23.2  | 26.3 |
| 120°   | 2.2 | 3.6   | 13.8 | 21.4  | 24.1 |
| 122.5° | 1.8 | 2.2   | 12.0 | 19.2  | 21.8 |
| 125°   | 1.8 | 1.3   | 10.3 | 17.4  | 19.6 |
| 127.5° | 1.3 | 0.9   | 8.5  | 15.2  | 17.8 |
| 130°   | 1.3 | 0.9   | 7.1  | 13.4  | 15.6 |
| 132.5° | 0.9 | 0.9   | 5.4  | 11.6  | 13.4 |
| 135°   | 0.9 | 0.4   | 3.6  | 9.4   | 11.6 |
| 137.5° | 0.9 | 0.4   | 2.2  | 7.6   | 9.4  |
| 140°   | 0.4 | 0.4   | 0.9  | 5.8   | 7.6  |
| 142.5° | 0.4 | 0.0   | 0.0  | 4.0   | 5.8  |
| 145°   | 0.4 | 0.0   | 0.0  | 2.2   | 4.0  |
| 147.5° | 0.0 | 0.0   | 0.0  | 0.9   | 1.8  |
| 150°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.4  |
| 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)