

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: P1028104

Luminaire Tested: S125DIP-B610D375UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1028104  
REPORT IS A COMBINATION OF REPORTS P1002298 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B610D375UB50-4F0-XX-W2A-F4  
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

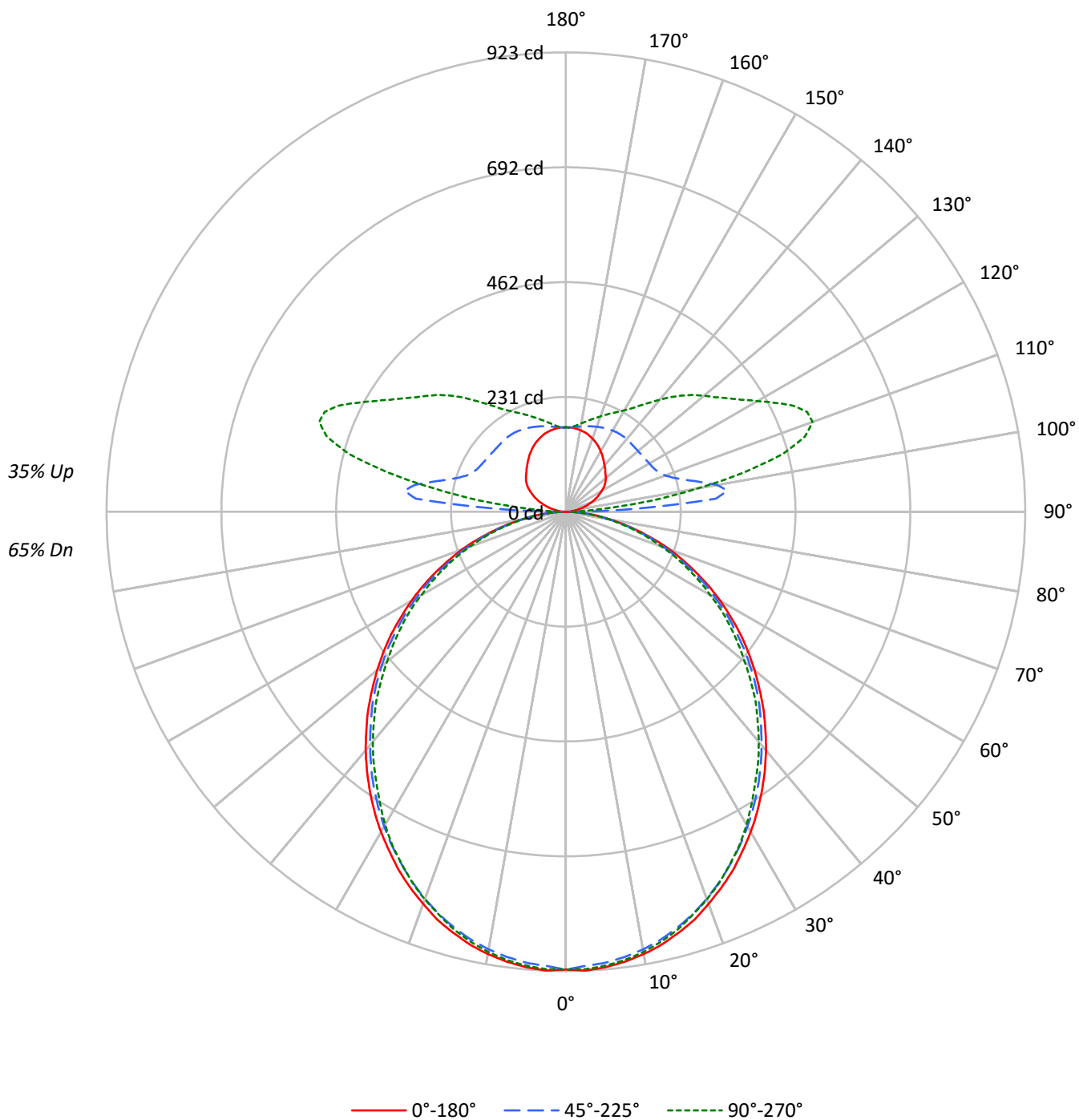
Lumens per Lamp: N/A  
Luminaire Lumens: 3670.6 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 33.3  
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   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 80 | 80 | 80 | 70 | 70 | 70 |
| 1   | 101 | 97  | 93  | 89  | 95  | 91  | 88  | 84  | 80 | 78 | 75 | 71 | 69 | 67 | 62 | 60 | 59 |
| 2   | 92  | 84  | 78  | 73  | 86  | 80  | 74  | 69  | 71 | 66 | 62 | 62 | 59 | 56 | 54 | 52 | 50 |
| 3   | 84  | 74  | 67  | 61  | 79  | 70  | 63  | 58  | 62 | 57 | 52 | 55 | 51 | 47 | 48 | 45 | 42 |
| 4   | 77  | 66  | 58  | 51  | 72  | 62  | 55  | 49  | 55 | 49 | 45 | 49 | 44 | 41 | 43 | 39 | 36 |
| 5   | 71  | 59  | 50  | 44  | 66  | 55  | 48  | 42  | 50 | 43 | 39 | 44 | 39 | 35 | 39 | 35 | 32 |
| 6   | 65  | 53  | 44  | 38  | 61  | 50  | 42  | 37  | 45 | 38 | 34 | 40 | 35 | 31 | 35 | 31 | 28 |
| 7   | 60  | 48  | 39  | 34  | 57  | 45  | 38  | 32  | 41 | 34 | 30 | 36 | 31 | 27 | 32 | 28 | 25 |
| 8   | 56  | 43  | 35  | 30  | 53  | 41  | 34  | 29  | 37 | 31 | 27 | 33 | 28 | 24 | 30 | 25 | 22 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 31 | 26 | 22 | 27 | 23 | 20 |
| 10  | 49  | 36  | 29  | 24  | 46  | 35  | 28  | 23  | 31 | 26 | 22 | 28 | 23 | 20 | 25 | 21 | 18 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5893 | 5893 | 5893 |
| 5°  | 5893 | 5756 | 5767 |
| 10° | 5845 | 5625 | 5607 |
| 15° | 5768 | 5466 | 5418 |
| 20° | 5664 | 5284 | 5200 |
| 25° | 5553 | 5084 | 4968 |
| 30° | 5419 | 4876 | 4723 |
| 35° | 5275 | 4658 | 4449 |
| 40° | 5127 | 4428 | 4206 |
| 45° | 4966 | 4203 | 3946 |
| 50° | 4789 | 3948 | 3645 |
| 55° | 4615 | 3667 | 3367 |
| 60° | 4406 | 3371 | 3044 |
| 65° | 4157 | 3028 | 2710 |
| 70° | 3904 | 2634 | 2324 |
| 75° | 3476 | 2168 | 1880 |
| 80° | 2963 | 1619 | 1381 |
| 85° | 2287 | 959  | 763  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4966 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.8   | 2.4       |
| 10°-20°   | 245.2  | 6.7       |
| 20°-30°   | 361.9  | 9.9       |
| 30°-40°   | 422.3  | 11.5      |
| 40°-50°   | 424.1  | 11.6      |
| 50°-60°   | 372.3  | 10.1      |
| 60°-70°   | 277.3  | 7.6       |
| 70°-80°   | 158.4  | 4.3       |
| 80°-90°   | 46.4   | 1.3       |
| 90°-100°  | 127.6  | 3.5       |
| 100°-110° | 265.2  | 7.2       |
| 110°-120° | 247.7  | 6.7       |
| 120°-130° | 200.4  | 5.5       |
| 130°-140° | 161.0  | 4.4       |
| 140°-150° | 121.6  | 3.3       |
| 150°-160° | 85.6   | 2.3       |
| 160°-170° | 50.4   | 1.4       |
| 170°-180° | 16.4   | 0.4       |
| 0°-30°    | 693.9  | 18.9      |
| 0°-40°    | 1116.2 | 30.4      |
| 0°-60°    | 1912.6 | 52.1      |
| 0°-90°    | 2394.7 | 65.2      |
| 90°-120°  | 640.5  | 17.4      |
| 90°-150°  | 1123.5 | 30.6      |
| 90°-180°  | 1276.0 | 34.8      |
| 0°-180°   | 3670.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 920 | 920   | 920 | 920   | 920 |      |
| 5°   | 918 | 917   | 910 | 916   | 915 | 87   |
| 15°  | 875 | 873   | 865 | 869   | 869 | 247  |
| 25°  | 795 | 791   | 782 | 783   | 781 | 366  |
| 35°  | 686 | 683   | 673 | 670   | 664 | 429  |
| 45°  | 562 | 559   | 550 | 541   | 539 | 433  |
| 55°  | 428 | 426   | 416 | 409   | 404 | 382  |
| 65°  | 289 | 287   | 279 | 273   | 270 | 287  |
| 75°  | 154 | 152   | 148 | 146   | 143 | 163  |
| 85°  | 40  | 41    | 41  | 40    | 39  | 44   |
| 90°  | 0   | 3     | 6   | 7     | 8   | 3    |
| 95°  | 11  | 33    | 303 | 137   | 80  | 12   |
| 105° | 39  | 54    | 248 | 488   | 453 | 41   |
| 115° | 69  | 83    | 199 | 429   | 504 | 68   |
| 125° | 96  | 112   | 191 | 341   | 398 | 85   |
| 135° | 112 | 135   | 189 | 286   | 330 | 87   |
| 145° | 131 | 150   | 190 | 237   | 260 | 82   |
| 155° | 149 | 160   | 185 | 209   | 218 | 69   |
| 165° | 163 | 167   | 178 | 188   | 191 | 46   |
| 175° | 169 | 169   | 171 | 173   | 172 | 16   |
| 180° | 170 | 170   | 170 | 170   | 170 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 919.8 | 919.8 | 919.8 | 919.8 | 919.8 |
| 2.5°   | 922.7 | 920.5 | 913.2 | 920.5 | 919.8 |
| 5°     | 918.3 | 916.9 | 909.6 | 916.2 | 915.4 |
| 7.5°   | 911.8 | 910.3 | 902.3 | 908.9 | 908.2 |
| 10°    | 902.3 | 900.9 | 892.9 | 898.7 | 898.0 |
| 12.5°  | 890.7 | 887.8 | 880.5 | 884.9 | 884.9 |
| 15°    | 875.4 | 873.2 | 865.2 | 868.9 | 868.9 |
| 17.5°  | 859.4 | 855.8 | 847.8 | 852.1 | 848.5 |
| 20°    | 838.3 | 836.8 | 827.4 | 832.5 | 828.8 |
| 22.5°  | 817.2 | 814.3 | 805.5 | 808.5 | 806.3 |
| 25°    | 794.6 | 791.0 | 781.5 | 783.0 | 780.8 |
| 27.5°  | 768.4 | 766.3 | 756.8 | 757.5 | 755.3 |
| 30°    | 743.0 | 740.8 | 729.9 | 728.4 | 726.2 |
| 32.5°  | 715.3 | 711.7 | 702.2 | 699.3 | 694.9 |
| 35°    | 686.2 | 683.3 | 673.1 | 669.5 | 663.6 |
| 37.5°  | 656.4 | 652.7 | 643.3 | 638.2 | 634.5 |
| 40°    | 625.8 | 622.2 | 612.0 | 605.4 | 603.3 |
| 42.5°  | 593.1 | 590.2 | 580.0 | 574.1 | 570.5 |
| 45°    | 561.8 | 558.9 | 550.1 | 541.4 | 539.2 |
| 47.5°  | 527.6 | 528.3 | 517.4 | 508.7 | 503.6 |
| 50°    | 494.8 | 492.6 | 483.9 | 474.5 | 469.4 |
| 52.5°  | 461.4 | 459.9 | 450.4 | 442.4 | 436.6 |
| 55°    | 427.9 | 425.7 | 415.5 | 409.0 | 403.9 |
| 57.5°  | 392.2 | 391.5 | 382.8 | 374.0 | 371.8 |
| 60°    | 358.7 | 355.8 | 347.8 | 340.6 | 335.5 |
| 62.5°  | 323.8 | 321.6 | 315.1 | 307.1 | 303.4 |
| 65°    | 288.9 | 287.4 | 279.4 | 272.9 | 270.0 |
| 67.5°  | 254.7 | 251.8 | 246.0 | 240.1 | 238.7 |
| 70°    | 222.7 | 219.0 | 212.5 | 208.1 | 205.2 |
| 72.5°  | 187.7 | 185.6 | 181.9 | 176.8 | 173.9 |
| 75°    | 153.5 | 152.1 | 148.4 | 146.3 | 143.4 |
| 77.5°  | 121.5 | 120.8 | 118.6 | 117.2 | 115.0 |
| 80°    | 91.7  | 91.7  | 90.2  | 89.5  | 88.0  |
| 82.5°  | 65.5  | 64.0  | 64.0  | 62.6  | 62.6  |
| 85°    | 40.0  | 40.8  | 40.8  | 40.0  | 38.6  |
| 87.5°  | 19.6  | 19.6  | 18.9  | 18.9  | 17.5  |
| 90°    | 0.3   | 3.0   | 5.5   | 7.2   | 7.9   |
| 92.5°  | 5.1   | 28.0  | 136.4 | 36.4  | 25.3  |
| 95°    | 11.3  | 33.3  | 302.8 | 137.4 | 80.3  |
| 97.5°  | 17.4  | 36.0  | 327.1 | 248.1 | 176.0 |
| 100°   | 23.9  | 41.4  | 308.6 | 350.7 | 266.6 |
| 102.5° | 31.1  | 47.3  | 276.2 | 437.5 | 367.8 |
| 105°   | 38.6  | 54.0  | 247.8 | 487.9 | 452.9 |
| 107.5° | 45.8  | 61.0  | 226.6 | 502.1 | 504.1 |
| 110°   | 53.7  | 68.4  | 212.6 | 488.6 | 527.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 61.5  | 75.7  | 204.4 | 460.4 | 524.6 |
| 115°   | 69.0  | 83.2  | 198.9 | 428.8 | 504.5 |
| 117.5° | 75.9  | 90.9  | 195.8 | 400.1 | 474.1 |
| 120°   | 82.7  | 98.2  | 193.8 | 376.0 | 444.7 |
| 122.5° | 89.9  | 105.4 | 192.1 | 356.6 | 418.7 |
| 125°   | 95.7  | 112.2 | 190.7 | 341.1 | 397.5 |
| 127.5° | 100.5 | 118.6 | 190.0 | 327.8 | 378.0 |
| 130°   | 104.9 | 124.8 | 189.4 | 314.3 | 362.6 |
| 132.5° | 108.3 | 130.2 | 189.4 | 299.8 | 347.3 |
| 135°   | 112.1 | 134.8 | 189.4 | 285.9 | 330.2 |
| 137.5° | 116.9 | 139.1 | 189.7 | 271.4 | 312.4 |
| 140°   | 121.0 | 142.7 | 190.0 | 258.0 | 293.6 |
| 142.5° | 125.8 | 146.1 | 190.4 | 246.6 | 276.2 |
| 145°   | 130.6 | 149.6 | 190.0 | 236.7 | 260.4 |
| 147.5° | 135.7 | 152.6 | 189.4 | 228.2 | 246.4 |
| 150°   | 140.1 | 155.3 | 188.3 | 221.2 | 235.2 |
| 152.5° | 144.9 | 158.0 | 187.0 | 215.2 | 226.3 |
| 155°   | 149.0 | 160.3 | 185.3 | 209.4 | 218.4 |
| 157.5° | 152.8 | 162.5 | 183.5 | 203.9 | 211.2 |
| 160°   | 156.5 | 164.2 | 181.8 | 198.4 | 204.0 |
| 162.5° | 159.6 | 165.9 | 179.8 | 193.4 | 197.6 |
| 165°   | 162.7 | 167.1 | 177.7 | 188.5 | 191.4 |
| 167.5° | 164.7 | 167.8 | 175.7 | 183.9 | 185.6 |
| 170°   | 166.8 | 168.7 | 174.0 | 179.4 | 180.5 |
| 172.5° | 168.2 | 169.0 | 171.9 | 175.8 | 175.7 |
| 175°   | 169.2 | 169.2 | 170.6 | 172.6 | 171.9 |
| 177.5° | 169.9 | 169.2 | 169.5 | 170.6 | 169.5 |
| 180°   | 169.5 | 169.5 | 169.5 | 169.5 | 169.5 |

(END OF REPORT)