

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: P1007695

Luminaire Tested: S124IP-B365UB2750-4F0-XX-W2A\_4000K

Issue Date: 5/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007695  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124IP-B365UB2750-4F0-XX-W2A\_4000K  
Description: Define 4 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

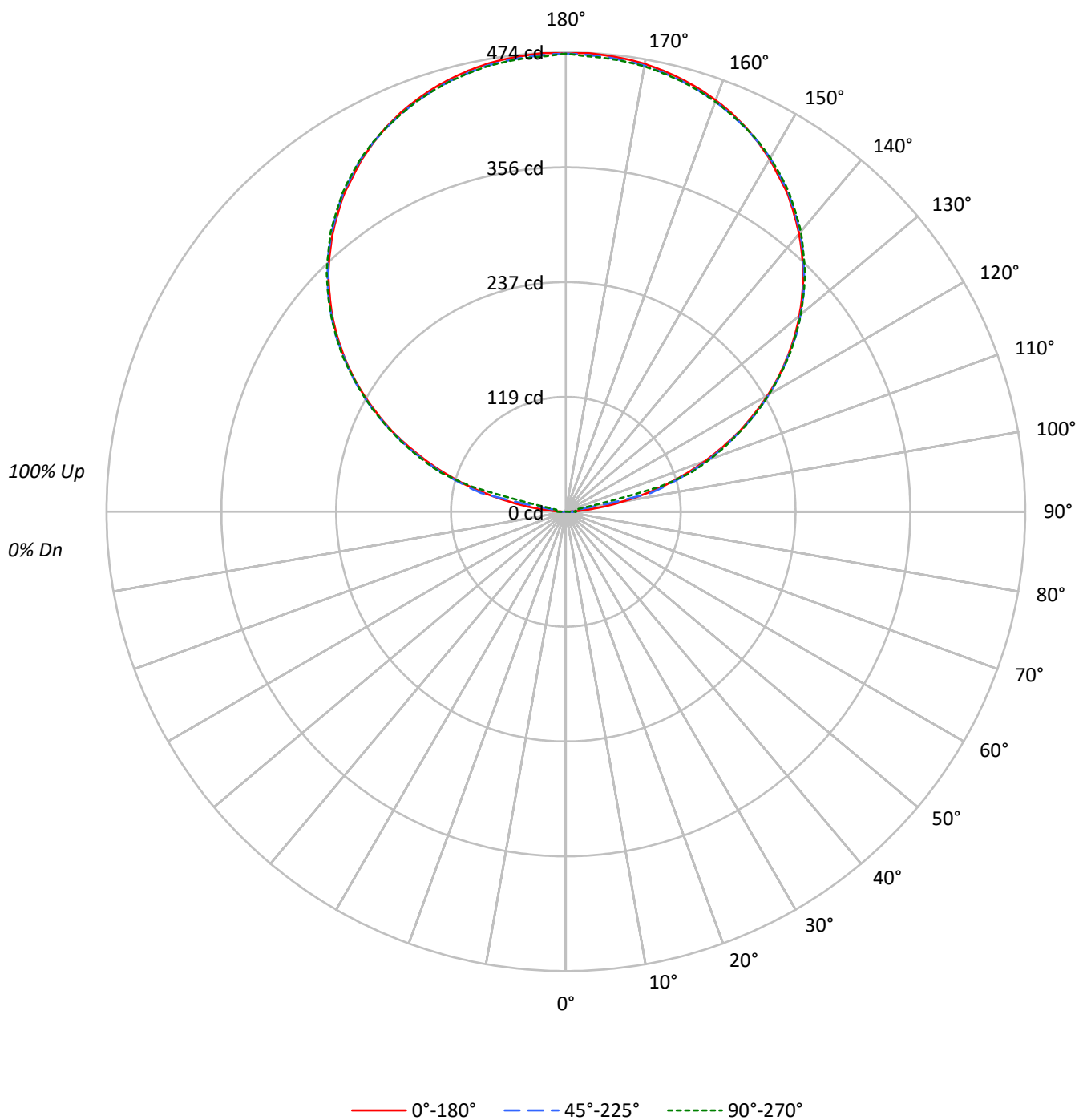
Lumens per Lamp: N/A  
Luminaire Lumens: 1464.0 lumens  
Efficiency: N/A  
Efficacy: 157.4 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 9.3  
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   | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 8  |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  |
| 3   | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  |

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

|     | 0° | 45° | 90° |
|-----|----|-----|-----|
| 0°  | 0  | 0   | 0   |
| 5°  | 0  | 0   | 0   |
| 10° | 0  | 0   | 0   |
| 15° | 0  | 0   | 0   |
| 20° | 0  | 0   | 0   |
| 25° | 0  | 0   | 0   |
| 30° | 0  | 0   | 0   |
| 35° | 0  | 0   | 0   |
| 40° | 0  | 0   | 0   |
| 45° | 0  | 0   | 0   |
| 50° | 0  | 0   | 0   |
| 55° | 0  | 0   | 0   |
| 60° | 0  | 0   | 0   |
| 65° | 0  | 0   | 0   |
| 70° | 0  | 0   | 0   |
| 75° | 0  | 0   | 0   |
| 80° | 0  | 0   | 0   |
| 85° | 0  | 0   | 0   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 0°  
Luminance: 0 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.0    | 0.0       |
| 10°-20°   | 0.0    | 0.0       |
| 20°-30°   | 0.0    | 0.0       |
| 30°-40°   | 0.0    | 0.0       |
| 40°-50°   | 0.0    | 0.0       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 1.0    | 0.1       |
| 90°-100°  | 15.7   | 1.1       |
| 100°-110° | 103.4  | 7.1       |
| 110°-120° | 197.4  | 13.5      |
| 120°-130° | 250.5  | 17.1      |
| 130°-140° | 268.0  | 18.3      |
| 140°-150° | 250.6  | 17.1      |
| 150°-160° | 202.1  | 13.8      |
| 160°-170° | 130.3  | 8.9       |
| 170°-180° | 44.9   | 3.1       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 1.0    | 0.1       |
| 90°-120°  | 316.4  | 21.6      |
| 90°-150°  | 1085.6 | 74.2      |
| 90°-180°  | 1463.0 | 99.9      |
| 0°-180°   | 1464.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 0   | 0     | 0   | 0     | 0   |      |
| 5°   | 0   | 0     | 0   | 0     | 0   | 0    |
| 15°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 25°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 35°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 45°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 55°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 65°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 75°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 85°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 90°  | 1   | 5     | 8   | 10    | 11  | 1    |
| 95°  | 19  | 7     | 8   | 10    | 10  | 24   |
| 105° | 106 | 109   | 110 | 114   | 101 | 111  |
| 115° | 199 | 200   | 199 | 200   | 200 | 196  |
| 125° | 279 | 281   | 280 | 281   | 282 | 249  |
| 135° | 347 | 346   | 348 | 348   | 349 | 267  |
| 145° | 400 | 401   | 401 | 401   | 402 | 250  |
| 155° | 438 | 438   | 437 | 439   | 438 | 202  |
| 165° | 462 | 460   | 460 | 463   | 460 | 131  |
| 175° | 473 | 471   | 471 | 474   | 470 | 45   |
| 180° | 473 | 473   | 473 | 473   | 473 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2.5°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5°     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7.5°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 17.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 22.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 25°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 32.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 35°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 37.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 40°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 42.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 45°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 47.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 50°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 52.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°    | 1.1   | 5.0   | 7.8   | 9.9   | 10.6  |
| 92.5°  | 5.3   | 4.6   | 7.4   | 9.5   | 9.5   |
| 95°    | 19.4  | 7.4   | 7.8   | 9.9   | 10.3  |
| 97.5°  | 37.1  | 44.9  | 7.8   | 9.5   | 9.9   |
| 100°   | 58.0  | 64.4  | 15.6  | 9.5   | 9.9   |
| 102.5° | 81.3  | 85.6  | 89.8  | 10.3  | 10.3  |
| 105°   | 106.4 | 108.6 | 110.3 | 113.5 | 100.8 |
| 107.5° | 129.4 | 130.5 | 133.0 | 134.7 | 136.1 |
| 110°   | 152.8 | 153.8 | 156.0 | 156.7 | 157.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 175.4 | 177.5 | 178.2 | 177.9 | 179.3 |
| 115°   | 198.7 | 199.8 | 199.4 | 200.2 | 200.2 |
| 117.5° | 219.6 | 221.0 | 222.1 | 221.7 | 221.7 |
| 120°   | 240.8 | 242.2 | 241.9 | 242.6 | 241.9 |
| 122.5° | 260.6 | 261.3 | 262.0 | 262.4 | 261.7 |
| 125°   | 279.4 | 280.8 | 280.1 | 281.1 | 281.5 |
| 127.5° | 297.4 | 297.8 | 299.5 | 299.2 | 298.8 |
| 130°   | 314.7 | 315.1 | 316.1 | 316.5 | 316.5 |
| 132.5° | 330.6 | 331.4 | 332.8 | 333.1 | 332.8 |
| 135°   | 346.6 | 346.2 | 347.6 | 348.3 | 349.0 |
| 137.5° | 360.7 | 360.7 | 362.5 | 363.2 | 362.8 |
| 140°   | 374.5 | 375.2 | 375.9 | 377.0 | 377.3 |
| 142.5° | 386.9 | 388.3 | 388.6 | 389.3 | 389.3 |
| 145°   | 399.6 | 400.7 | 400.7 | 401.0 | 401.7 |
| 147.5° | 409.5 | 411.6 | 411.3 | 411.6 | 412.0 |
| 150°   | 420.5 | 421.9 | 421.5 | 421.5 | 421.9 |
| 152.5° | 429.7 | 430.7 | 430.0 | 430.7 | 430.4 |
| 155°   | 438.1 | 438.5 | 437.4 | 438.9 | 437.8 |
| 157.5° | 445.6 | 445.6 | 444.2 | 445.9 | 444.2 |
| 160°   | 451.9 | 450.9 | 450.5 | 452.6 | 450.5 |
| 162.5° | 457.6 | 456.2 | 455.8 | 458.0 | 455.5 |
| 165°   | 462.2 | 460.4 | 460.4 | 463.3 | 460.1 |
| 167.5° | 466.1 | 464.3 | 464.0 | 467.1 | 463.6 |
| 170°   | 469.3 | 467.1 | 467.5 | 470.3 | 466.8 |
| 172.5° | 471.4 | 469.3 | 469.6 | 472.5 | 468.6 |
| 175°   | 472.8 | 470.7 | 471.0 | 474.2 | 470.0 |
| 177.5° | 473.9 | 471.4 | 472.1 | 474.9 | 470.7 |
| 180°   | 472.8 | 472.8 | 472.8 | 472.8 | 472.8 |

(END OF REPORT)