

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: P1034518

Luminaire Tested: S125DIW-B375D470UB2750-4F0-XX-W2A-D\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1034518  
REPORT IS A COMBINATION OF REPORTS P1003599 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B375D470UB2750-4F0-XX-W2A-D\_5000K  
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

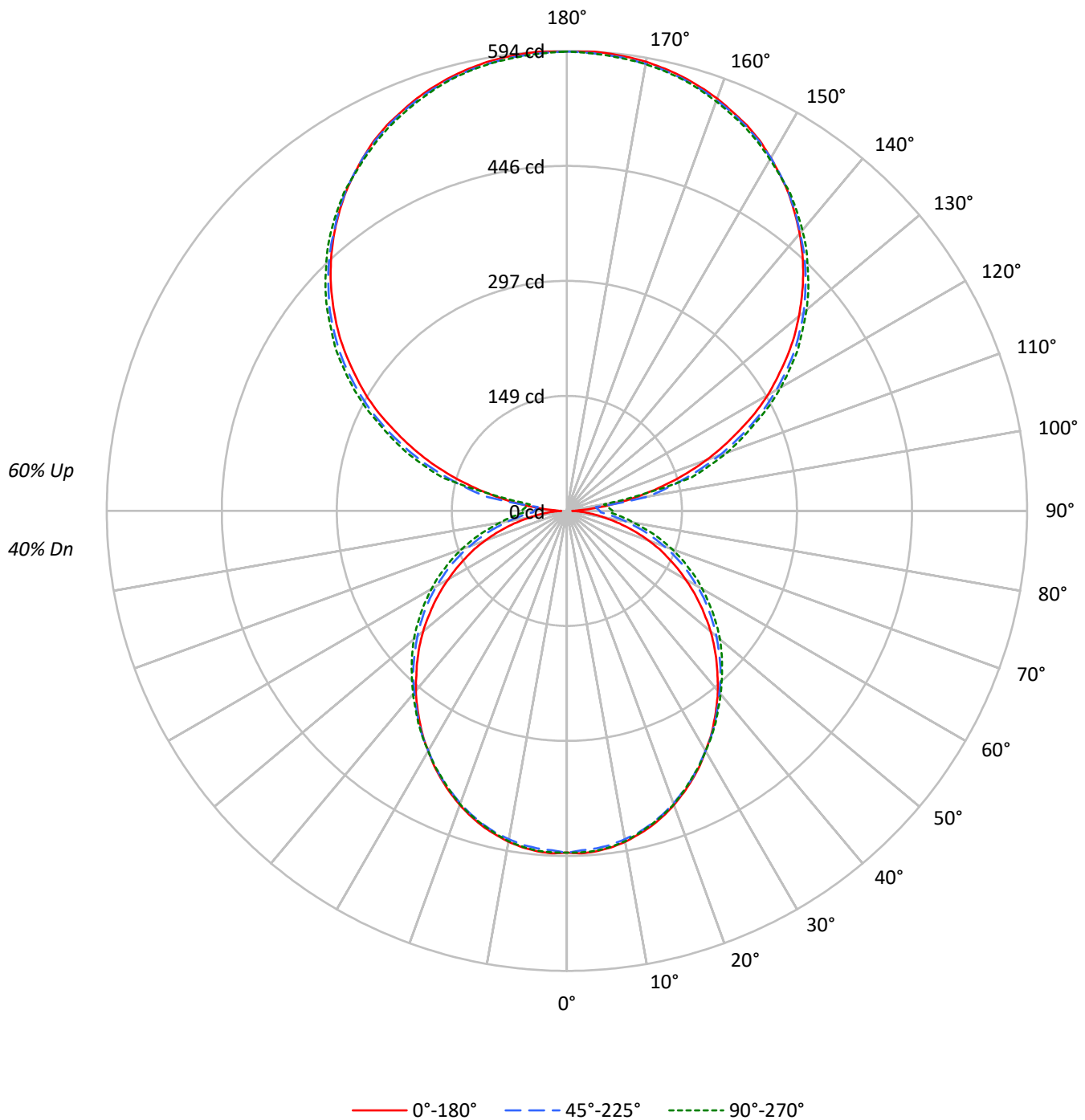
Lumens per Lamp: N/A  
Luminaire Lumens: 3190.0 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 26.2  
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 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 |    |    | 40 |
| 1   | 95  | 90  | 86  | 83  | 86 | 82 | 79 | 76 | 67 | 65 | 63 | 54 | 52 | 50 | 41 | 40 | 39 |    |    | 33 |
| 2   | 86  | 79  | 72  | 67  | 78 | 72 | 66 | 62 | 59 | 55 | 51 | 47 | 44 | 41 | 35 | 34 | 32 |    |    | 27 |
| 3   | 79  | 69  | 61  | 56  | 71 | 63 | 56 | 51 | 52 | 47 | 43 | 41 | 38 | 35 | 31 | 29 | 27 |    |    | 23 |
| 4   | 72  | 61  | 53  | 47  | 65 | 56 | 49 | 43 | 46 | 40 | 36 | 36 | 33 | 30 | 28 | 25 | 23 |    |    | 19 |
| 5   | 66  | 54  | 46  | 40  | 59 | 49 | 42 | 37 | 41 | 35 | 31 | 33 | 29 | 26 | 25 | 22 | 20 |    |    | 17 |
| 6   | 60  | 48  | 40  | 34  | 55 | 44 | 37 | 32 | 37 | 31 | 27 | 29 | 25 | 22 | 23 | 20 | 18 |    |    | 14 |
| 7   | 56  | 44  | 36  | 30  | 51 | 40 | 33 | 28 | 33 | 28 | 24 | 27 | 23 | 20 | 21 | 18 | 16 |    |    | 13 |
| 8   | 52  | 39  | 32  | 26  | 47 | 36 | 29 | 25 | 30 | 25 | 21 | 24 | 20 | 17 | 19 | 16 | 14 |    |    | 11 |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 22 | 28 | 22 | 19 | 22 | 18 | 16 | 17 | 15 | 12 |    |    | 10 |
| 10  | 45  | 33  | 26  | 21  | 41 | 30 | 24 | 19 | 25 | 20 | 17 | 21 | 17 | 14 | 16 | 13 | 11 |    |    | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2827 | 2827 | 2827 |
| 5°  | 2832 | 2768 | 2775 |
| 10° | 2811 | 2712 | 2704 |
| 15° | 2777 | 2646 | 2616 |
| 20° | 2730 | 2566 | 2530 |
| 25° | 2676 | 2482 | 2425 |
| 30° | 2609 | 2390 | 2330 |
| 35° | 2547 | 2305 | 2242 |
| 40° | 2485 | 2216 | 2153 |
| 45° | 2413 | 2138 | 2074 |
| 50° | 2345 | 2054 | 2002 |
| 55° | 2263 | 1974 | 1919 |
| 60° | 2173 | 1882 | 1833 |
| 65° | 2079 | 1786 | 1736 |
| 70° | 1972 | 1657 | 1636 |
| 75° | 1802 | 1530 | 1514 |
| 80° | 1580 | 1375 | 1378 |
| 85° | 1361 | 1251 | 1308 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2413 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.8   | 1.3       |
| 10°-20°   | 118.5  | 3.7       |
| 20°-30°   | 176.3  | 5.5       |
| 30°-40°   | 208.8  | 6.5       |
| 40°-50°   | 215.8  | 6.8       |
| 50°-60°   | 198.8  | 6.2       |
| 60°-70°   | 160.7  | 5.0       |
| 70°-80°   | 107.6  | 3.4       |
| 80°-90°   | 56.5   | 1.8       |
| 90°-100°  | 51.4   | 1.6       |
| 100°-110° | 157.0  | 4.9       |
| 110°-120° | 256.5  | 8.0       |
| 120°-130° | 318.2  | 10.0      |
| 130°-140° | 336.6  | 10.6      |
| 140°-150° | 313.1  | 9.8       |
| 150°-160° | 252.7  | 7.9       |
| 160°-170° | 163.4  | 5.1       |
| 170°-180° | 56.4   | 1.8       |
| 0°-30°    | 336.6  | 10.6      |
| 0°-40°    | 545.3  | 17.1      |
| 0°-60°    | 960.0  | 30.1      |
| 0°-90°    | 1284.7 | 40.3      |
| 90°-120°  | 464.9  | 14.6      |
| 90°-150°  | 1432.9 | 44.9      |
| 90°-180°  | 1905.0 | 59.7      |
| 0°-180°   | 3190.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 441 | 441   | 441 | 441   | 441 |      |
| 5°   | 441 | 440   | 437 | 441   | 440 | 42   |
| 15°  | 421 | 422   | 419 | 421   | 420 | 119  |
| 25°  | 383 | 384   | 382 | 383   | 381 | 176  |
| 35°  | 331 | 334   | 333 | 334   | 334 | 207  |
| 45°  | 273 | 278   | 280 | 283   | 283 | 211  |
| 55°  | 210 | 217   | 224 | 228   | 230 | 188  |
| 65°  | 144 | 154   | 165 | 171   | 173 | 143  |
| 75°  | 80  | 91    | 105 | 113   | 116 | 84   |
| 85°  | 24  | 38    | 53  | 63    | 66  | 25   |
| 90°  | 7   | 25    | 42  | 55    | 59  | 6    |
| 95°  | 31  | 41    | 39  | 50    | 53  | 35   |
| 105° | 133 | 142   | 155 | 163   | 166 | 141  |
| 115° | 245 | 250   | 262 | 268   | 268 | 243  |
| 125° | 347 | 350   | 358 | 363   | 364 | 310  |
| 135° | 431 | 434   | 436 | 440   | 440 | 333  |
| 145° | 500 | 500   | 500 | 503   | 502 | 312  |
| 155° | 550 | 547   | 548 | 549   | 546 | 253  |
| 165° | 580 | 577   | 578 | 580   | 577 | 164  |
| 175° | 593 | 590   | 591 | 594   | 590 | 56   |
| 180° | 593 | 593   | 593 | 593   | 593 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 441.3 | 441.3 | 441.3 | 441.3 | 441.3 |
| 2.5°   | 442.6 | 441.7 | 438.7 | 441.7 | 441.3 |
| 5°     | 441.3 | 440.4 | 437.4 | 440.8 | 440.4 |
| 7.5°   | 438.2 | 437.8 | 434.8 | 437.8 | 437.4 |
| 10°    | 433.9 | 433.9 | 430.5 | 433.5 | 433.1 |
| 12.5°  | 427.9 | 428.3 | 425.7 | 427.9 | 426.6 |
| 15°    | 421.4 | 421.8 | 418.8 | 421.4 | 419.6 |
| 17.5°  | 413.2 | 414.0 | 411.0 | 413.2 | 411.9 |
| 20°    | 404.1 | 404.9 | 401.9 | 403.2 | 403.2 |
| 22.5°  | 393.7 | 395.4 | 392.0 | 393.7 | 392.4 |
| 25°    | 382.9 | 384.2 | 381.6 | 383.3 | 381.1 |
| 27.5°  | 371.2 | 372.9 | 369.9 | 371.2 | 370.3 |
| 30°    | 357.8 | 360.4 | 357.8 | 358.6 | 358.2 |
| 32.5°  | 345.7 | 347.8 | 346.1 | 347.0 | 346.5 |
| 35°    | 331.4 | 334.4 | 333.1 | 334.4 | 334.4 |
| 37.5°  | 317.5 | 320.1 | 319.7 | 321.4 | 321.0 |
| 40°    | 303.3 | 306.7 | 306.3 | 308.0 | 308.9 |
| 42.5°  | 287.7 | 292.5 | 293.8 | 295.9 | 295.9 |
| 45°    | 273.0 | 277.7 | 279.9 | 282.9 | 283.4 |
| 47.5°  | 257.8 | 262.2 | 265.6 | 270.0 | 270.8 |
| 50°    | 242.3 | 247.0 | 251.8 | 256.5 | 257.8 |
| 52.5°  | 225.8 | 231.9 | 237.9 | 243.1 | 244.0 |
| 55°    | 209.8 | 216.7 | 223.7 | 228.4 | 230.2 |
| 57.5°  | 193.4 | 201.6 | 209.4 | 214.6 | 215.9 |
| 60°    | 176.9 | 185.6 | 194.2 | 200.7 | 202.0 |
| 62.5°  | 160.9 | 169.6 | 179.1 | 186.5 | 188.2 |
| 65°    | 144.5 | 154.4 | 164.8 | 171.3 | 173.0 |
| 67.5°  | 129.4 | 138.9 | 149.3 | 157.0 | 159.2 |
| 70°    | 112.5 | 122.4 | 133.7 | 141.9 | 144.5 |
| 72.5°  | 96.0  | 106.4 | 119.0 | 128.1 | 129.8 |
| 75°    | 79.6  | 90.9  | 104.7 | 113.3 | 115.5 |
| 77.5°  | 63.6  | 76.6  | 89.6  | 99.1  | 100.8 |
| 80°    | 48.9  | 61.9  | 76.6  | 86.1  | 87.8  |
| 82.5°  | 35.5  | 49.3  | 64.5  | 73.5  | 77.0  |
| 85°    | 23.8  | 38.1  | 53.2  | 62.7  | 66.2  |
| 87.5°  | 15.1  | 29.0  | 43.7  | 53.6  | 56.7  |
| 90°    | 7.3   | 24.8  | 42.5  | 54.6  | 59.1  |
| 92.5°  | 14.5  | 23.0  | 40.7  | 52.5  | 56.0  |
| 95°    | 30.7  | 40.6  | 38.6  | 50.3  | 53.3  |
| 97.5°  | 52.2  | 65.3  | 37.8  | 47.7  | 51.2  |
| 100°   | 78.2  | 88.6  | 104.2 | 47.8  | 48.6  |
| 102.5° | 104.6 | 114.5 | 128.9 | 138.4 | 104.0 |
| 105°   | 133.2 | 141.8 | 154.8 | 163.4 | 166.1 |
| 107.5° | 162.7 | 168.7 | 182.2 | 191.2 | 192.0 |
| 110°   | 191.2 | 196.4 | 209.4 | 216.4 | 219.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 218.5 | 223.7 | 235.8 | 241.9 | 244.0 |
| 115°   | 245.3 | 250.5 | 262.3 | 268.3 | 268.3 |
| 117.5° | 273.5 | 275.6 | 288.2 | 292.9 | 295.0 |
| 120°   | 299.9 | 300.7 | 312.0 | 318.5 | 318.9 |
| 122.5° | 322.7 | 325.4 | 335.3 | 341.4 | 341.3 |
| 125°   | 346.9 | 349.6 | 358.3 | 363.4 | 364.2 |
| 127.5° | 369.8 | 371.6 | 378.4 | 384.1 | 383.1 |
| 130°   | 390.9 | 392.7 | 399.1 | 403.9 | 403.8 |
| 132.5° | 411.6 | 414.2 | 417.2 | 423.2 | 422.8 |
| 135°   | 431.4 | 433.5 | 435.7 | 440.5 | 439.9 |
| 137.5° | 449.9 | 452.0 | 452.9 | 458.1 | 457.6 |
| 140°   | 467.4 | 468.3 | 468.3 | 473.9 | 473.1 |
| 142.5° | 483.6 | 483.7 | 484.6 | 488.5 | 487.5 |
| 145°   | 499.5 | 500.0 | 500.0 | 502.6 | 501.7 |
| 147.5° | 513.2 | 513.2 | 513.6 | 514.9 | 512.7 |
| 150°   | 526.3 | 525.5 | 526.3 | 527.2 | 524.1 |
| 152.5° | 539.1 | 536.9 | 537.8 | 538.7 | 535.6 |
| 155°   | 549.6 | 547.0 | 547.9 | 549.2 | 545.7 |
| 157.5° | 558.0 | 556.7 | 556.7 | 558.0 | 554.5 |
| 160°   | 566.8 | 564.2 | 564.6 | 566.4 | 562.8 |
| 162.5° | 573.8 | 571.2 | 571.6 | 574.3 | 570.3 |
| 165°   | 580.0 | 577.3 | 577.8 | 580.4 | 576.9 |
| 167.5° | 584.8 | 582.2 | 582.6 | 585.7 | 581.7 |
| 170°   | 588.8 | 585.7 | 586.1 | 589.7 | 585.7 |
| 172.5° | 591.4 | 588.3 | 589.2 | 592.3 | 588.3 |
| 175°   | 593.2 | 590.5 | 591.0 | 594.5 | 590.5 |
| 177.5° | 594.5 | 591.9 | 592.3 | 595.4 | 591.9 |
| 180°   | 593.2 | 593.2 | 593.2 | 593.2 | 593.2 |

(END OF REPORT)