

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: P1035334

Luminaire Tested: S125DIW-B375D470UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035334  
REPORT IS A COMBINATION OF REPORTS P1003619 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B375D470UB35-4F0-XX-W2A-D  
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

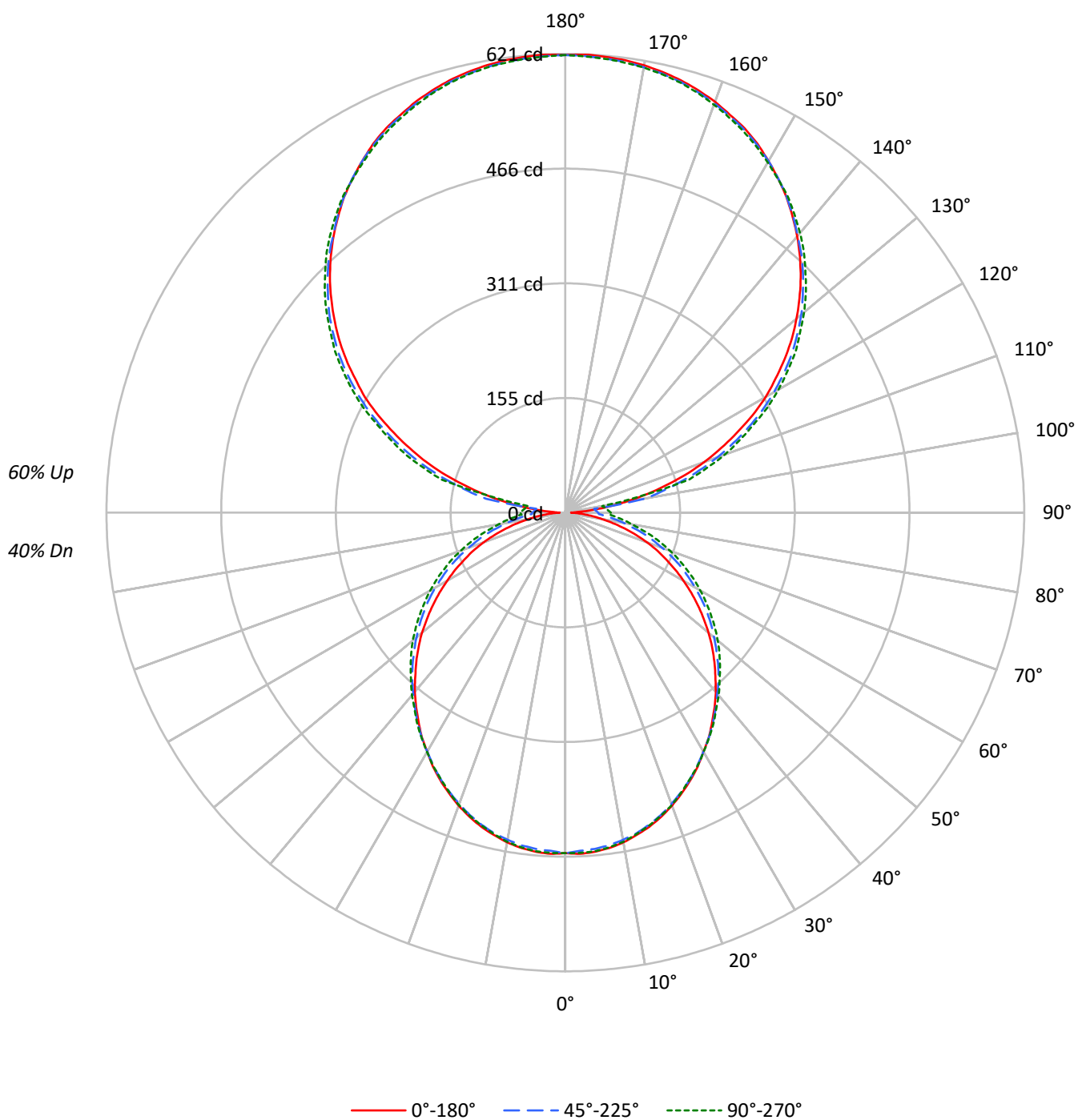
Lumens per Lamp: N/A  
Luminaire Lumens: 3332.0 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2954 | 2954 | 2954 |
| 5°  | 2958 | 2892 | 2899 |
| 10° | 2936 | 2833 | 2825 |
| 15° | 2900 | 2764 | 2734 |
| 20° | 2852 | 2681 | 2643 |
| 25° | 2795 | 2593 | 2534 |
| 30° | 2725 | 2497 | 2434 |
| 35° | 2661 | 2408 | 2342 |
| 40° | 2595 | 2315 | 2250 |
| 45° | 2521 | 2234 | 2166 |
| 50° | 2450 | 2146 | 2092 |
| 55° | 2364 | 2062 | 2004 |
| 60° | 2270 | 1966 | 1915 |
| 65° | 2171 | 1866 | 1815 |
| 70° | 2060 | 1731 | 1709 |
| 75° | 1884 | 1598 | 1582 |
| 80° | 1651 | 1436 | 1440 |
| 85° | 1424 | 1307 | 1365 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2521 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.6   | 1.3       |
| 10°-20°   | 123.8  | 3.7       |
| 20°-30°   | 184.1  | 5.5       |
| 30°-40°   | 218.1  | 6.5       |
| 40°-50°   | 225.5  | 6.8       |
| 50°-60°   | 207.7  | 6.2       |
| 60°-70°   | 167.9  | 5.0       |
| 70°-80°   | 112.3  | 3.4       |
| 80°-90°   | 59.0   | 1.8       |
| 90°-100°  | 53.7   | 1.6       |
| 100°-110° | 163.9  | 4.9       |
| 110°-120° | 267.9  | 8.0       |
| 120°-130° | 332.3  | 10.0      |
| 130°-140° | 351.6  | 10.6      |
| 140°-150° | 327.0  | 9.8       |
| 150°-160° | 263.9  | 7.9       |
| 160°-170° | 170.7  | 5.1       |
| 170°-180° | 58.9   | 1.8       |
| 0°-30°    | 351.6  | 10.6      |
| 0°-40°    | 569.7  | 17.1      |
| 0°-60°    | 1002.8 | 30.1      |
| 0°-90°    | 1342.0 | 40.3      |
| 90°-120°  | 485.6  | 14.6      |
| 90°-150°  | 1496.6 | 44.9      |
| 90°-180°  | 1990.0 | 59.7      |
| 0°-180°   | 3332.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 461 | 461   | 461 | 461   | 461 |      |
| 5°   | 461 | 460   | 457 | 460   | 460 | 44   |
| 15°  | 440 | 441   | 438 | 440   | 438 | 124  |
| 25°  | 400 | 401   | 399 | 400   | 398 | 184  |
| 35°  | 346 | 349   | 348 | 349   | 349 | 217  |
| 45°  | 285 | 290   | 292 | 296   | 296 | 220  |
| 55°  | 219 | 226   | 234 | 239   | 240 | 196  |
| 65°  | 151 | 161   | 172 | 179   | 181 | 150  |
| 75°  | 83  | 95    | 109 | 118   | 121 | 88   |
| 85°  | 25  | 40    | 56  | 66    | 69  | 26   |
| 90°  | 8   | 26    | 44  | 57    | 62  | 6    |
| 95°  | 32  | 42    | 40  | 52    | 56  | 37   |
| 105° | 139 | 148   | 162 | 171   | 174 | 147  |
| 115° | 256 | 262   | 274 | 280   | 280 | 254  |
| 125° | 362 | 365   | 374 | 380   | 380 | 324  |
| 135° | 450 | 453   | 455 | 460   | 460 | 347  |
| 145° | 522 | 522   | 522 | 525   | 524 | 326  |
| 155° | 574 | 571   | 572 | 574   | 570 | 265  |
| 165° | 606 | 603   | 604 | 606   | 602 | 171  |
| 175° | 620 | 617   | 617 | 621   | 617 | 59   |
| 180° | 620 | 620   | 620 | 620   | 620 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 461.0 | 461.0 | 461.0 | 461.0 | 461.0 |
| 2.5°   | 462.3 | 461.4 | 458.3 | 461.4 | 461.0 |
| 5°     | 461.0 | 460.1 | 456.9 | 460.5 | 460.1 |
| 7.5°   | 457.8 | 457.4 | 454.2 | 457.4 | 456.9 |
| 10°    | 453.3 | 453.3 | 449.7 | 452.8 | 452.4 |
| 12.5°  | 447.0 | 447.4 | 444.7 | 447.0 | 445.6 |
| 15°    | 440.2 | 440.6 | 437.5 | 440.2 | 438.4 |
| 17.5°  | 431.6 | 432.5 | 429.3 | 431.6 | 430.2 |
| 20°    | 422.1 | 423.0 | 419.8 | 421.2 | 421.2 |
| 22.5°  | 411.3 | 413.1 | 409.4 | 411.3 | 409.9 |
| 25°    | 400.0 | 401.3 | 398.6 | 400.4 | 398.2 |
| 27.5°  | 387.8 | 389.6 | 386.4 | 387.8 | 386.9 |
| 30°    | 373.7 | 376.5 | 373.7 | 374.6 | 374.2 |
| 32.5°  | 361.1 | 363.4 | 361.5 | 362.4 | 362.0 |
| 35°    | 346.2 | 349.3 | 348.0 | 349.3 | 349.3 |
| 37.5°  | 331.7 | 334.4 | 334.0 | 335.8 | 335.3 |
| 40°    | 316.8 | 320.4 | 320.0 | 321.8 | 322.7 |
| 42.5°  | 300.5 | 305.5 | 306.9 | 309.1 | 309.1 |
| 45°    | 285.2 | 290.1 | 292.4 | 295.6 | 296.0 |
| 47.5°  | 269.4 | 273.9 | 277.5 | 282.0 | 282.9 |
| 50°    | 253.1 | 258.1 | 263.0 | 268.0 | 269.4 |
| 52.5°  | 235.9 | 242.2 | 248.6 | 254.0 | 254.9 |
| 55°    | 219.2 | 226.4 | 233.6 | 238.6 | 240.4 |
| 57.5°  | 202.0 | 210.6 | 218.7 | 224.2 | 225.5 |
| 60°    | 184.8 | 193.9 | 202.9 | 209.7 | 211.1 |
| 62.5°  | 168.1 | 177.2 | 187.1 | 194.8 | 196.6 |
| 65°    | 150.9 | 161.3 | 172.2 | 179.0 | 180.8 |
| 67.5°  | 135.1 | 145.1 | 155.9 | 164.1 | 166.3 |
| 70°    | 117.5 | 127.9 | 139.6 | 148.2 | 150.9 |
| 72.5°  | 100.3 | 111.2 | 124.3 | 133.8 | 135.6 |
| 75°    | 83.2  | 94.9  | 109.4 | 118.4 | 120.7 |
| 77.5°  | 66.4  | 80.0  | 93.5  | 103.5 | 105.3 |
| 80°    | 51.1  | 64.6  | 80.0  | 89.9  | 91.7  |
| 82.5°  | 37.1  | 51.5  | 67.3  | 76.8  | 80.4  |
| 85°    | 24.9  | 39.8  | 55.6  | 65.5  | 69.1  |
| 87.5°  | 15.8  | 30.3  | 45.6  | 56.0  | 59.2  |
| 90°    | 7.7   | 25.8  | 44.4  | 57.1  | 61.6  |
| 92.5°  | 15.0  | 24.0  | 42.6  | 54.8  | 58.5  |
| 95°    | 32.1  | 42.4  | 40.3  | 52.5  | 55.7  |
| 97.5°  | 54.5  | 68.2  | 39.5  | 49.9  | 53.4  |
| 100°   | 81.7  | 92.6  | 108.8 | 49.9  | 50.7  |
| 102.5° | 109.2 | 119.6 | 134.6 | 144.6 | 108.7 |
| 105°   | 139.1 | 148.2 | 161.8 | 170.8 | 173.5 |
| 107.5° | 169.9 | 176.2 | 190.2 | 199.7 | 200.6 |
| 110°   | 199.8 | 205.2 | 218.7 | 225.9 | 229.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 228.2 | 233.6 | 246.3 | 252.6 | 254.8 |
| 115°   | 256.2 | 261.7 | 273.9 | 280.2 | 280.2 |
| 117.5° | 285.7 | 287.9 | 301.0 | 305.9 | 308.2 |
| 120°   | 313.2 | 314.1 | 325.8 | 332.6 | 333.0 |
| 122.5° | 337.1 | 339.9 | 350.2 | 356.5 | 356.4 |
| 125°   | 362.3 | 365.1 | 374.1 | 379.5 | 380.4 |
| 127.5° | 386.3 | 388.1 | 395.3 | 401.2 | 400.2 |
| 130°   | 408.3 | 410.1 | 416.9 | 421.9 | 421.8 |
| 132.5° | 429.8 | 432.6 | 435.7 | 442.1 | 441.6 |
| 135°   | 450.5 | 452.9 | 455.0 | 460.0 | 459.6 |
| 137.5° | 469.8 | 472.2 | 473.0 | 478.4 | 477.9 |
| 140°   | 488.2 | 489.1 | 489.1 | 495.0 | 494.1 |
| 142.5° | 505.2 | 505.2 | 506.1 | 510.2 | 509.2 |
| 145°   | 521.8 | 522.2 | 522.2 | 524.9 | 524.0 |
| 147.5° | 536.0 | 536.0 | 536.4 | 537.8 | 535.5 |
| 150°   | 549.7 | 548.8 | 549.7 | 550.6 | 547.5 |
| 152.5° | 563.0 | 560.8 | 561.7 | 562.6 | 559.4 |
| 155°   | 574.1 | 571.3 | 572.2 | 573.6 | 569.9 |
| 157.5° | 582.8 | 581.4 | 581.4 | 582.8 | 579.1 |
| 160°   | 592.0 | 589.2 | 589.7 | 591.5 | 587.8 |
| 162.5° | 599.3 | 596.6 | 597.0 | 599.8 | 595.7 |
| 165°   | 605.8 | 603.0 | 603.5 | 606.2 | 602.5 |
| 167.5° | 610.8 | 608.1 | 608.5 | 611.7 | 607.6 |
| 170°   | 614.9 | 611.7 | 612.2 | 615.9 | 611.7 |
| 172.5° | 617.7 | 614.5 | 615.4 | 618.6 | 614.5 |
| 175°   | 619.5 | 616.8 | 617.2 | 620.9 | 616.8 |
| 177.5° | 620.9 | 618.2 | 618.6 | 621.8 | 618.2 |
| 180°   | 619.5 | 619.5 | 619.5 | 619.5 | 619.5 |

(END OF REPORT)