

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: P1034836

Luminaire Tested: S125RDIW-B375D770UB2750-4F0-XX-W2A-F\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1034836  
REPORT IS A COMBINATION OF REPORTS P1006551 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIW-B375D770UB2750-4F0-XX-W2A-F\_3000K  
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}  
{m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

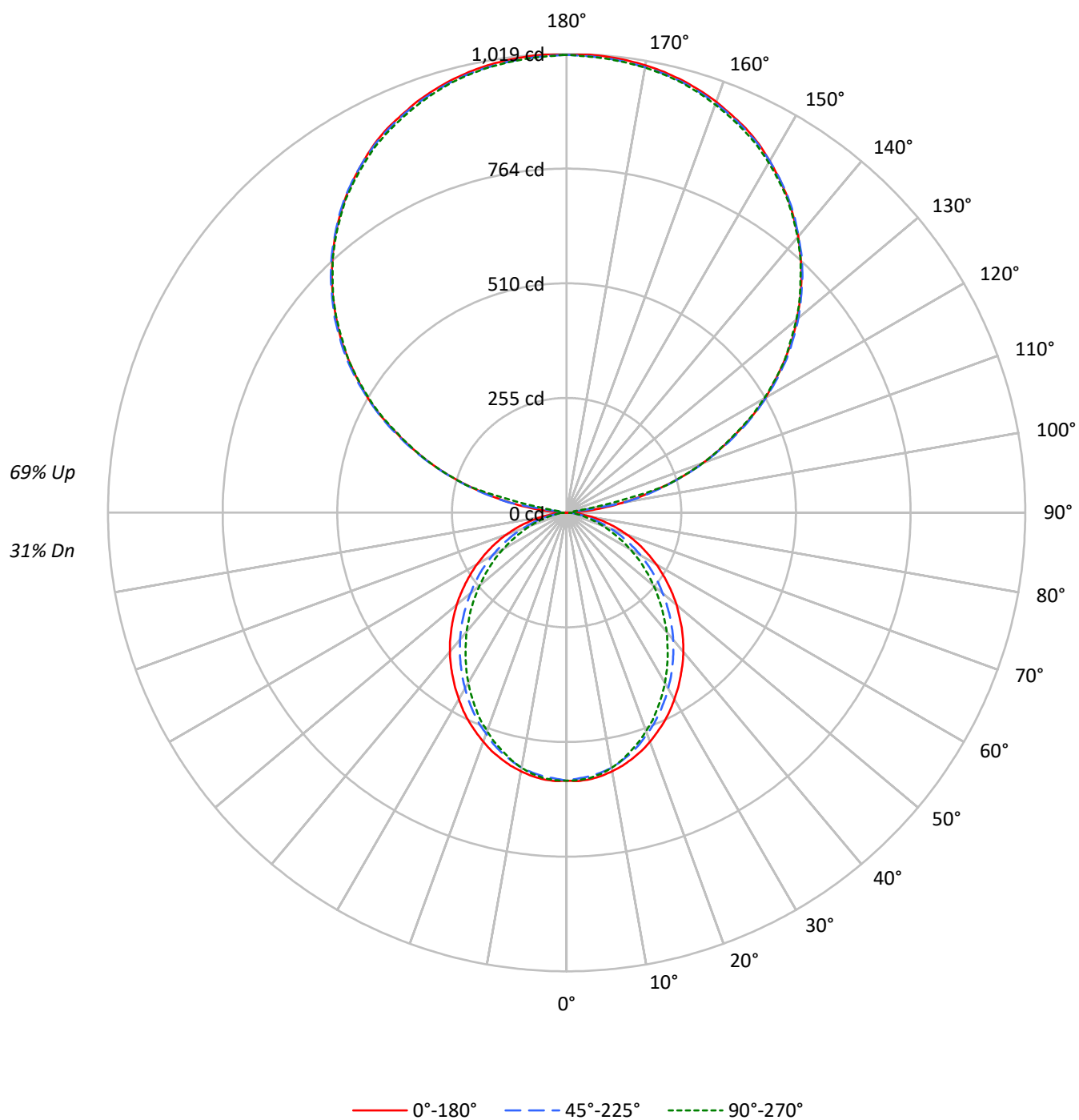
Lumens per Lamp: N/A  
Luminaire Lumens: 4532.0 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 36.2  
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   | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 |
| 1   | 94  | 90  | 86  | 82  | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 47 | 46 | 34 | 34 | 33 |
| 2   | 85  | 78  | 72  | 68  | 77 | 71 | 66 | 61 | 56 | 53 | 50 | 43 | 41 | 39 | 30 | 29 | 28 |
| 3   | 78  | 69  | 62  | 56  | 70 | 62 | 56 | 51 | 50 | 45 | 42 | 38 | 35 | 33 | 27 | 25 | 24 |
| 4   | 71  | 61  | 53  | 48  | 64 | 55 | 49 | 44 | 44 | 39 | 36 | 34 | 31 | 28 | 24 | 22 | 21 |
| 5   | 65  | 54  | 46  | 41  | 59 | 49 | 42 | 37 | 39 | 34 | 31 | 30 | 27 | 24 | 22 | 20 | 18 |
| 6   | 60  | 49  | 41  | 35  | 54 | 44 | 37 | 32 | 35 | 30 | 27 | 27 | 24 | 21 | 20 | 18 | 16 |
| 7   | 56  | 44  | 36  | 31  | 50 | 40 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 19 | 18 | 16 | 14 |
| 8   | 51  | 40  | 32  | 27  | 46 | 36 | 29 | 25 | 29 | 24 | 21 | 23 | 19 | 17 | 17 | 14 | 13 |
| 9   | 48  | 36  | 29  | 24  | 43 | 33 | 26 | 22 | 27 | 22 | 19 | 21 | 17 | 15 | 15 | 13 | 11 |
| 10  | 45  | 33  | 26  | 21  | 40 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 13 | 14 | 12 | 10 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3815 | 3815 | 3815 |
| 5°  | 3816 | 3721 | 3727 |
| 10° | 3779 | 3627 | 3595 |
| 15° | 3725 | 3495 | 3421 |
| 20° | 3659 | 3338 | 3240 |
| 25° | 3583 | 3184 | 3045 |
| 30° | 3490 | 3014 | 2840 |
| 35° | 3395 | 2842 | 2623 |
| 40° | 3305 | 2665 | 2411 |
| 45° | 3197 | 2474 | 2189 |
| 50° | 3087 | 2271 | 1963 |
| 55° | 2959 | 2072 | 1729 |
| 60° | 2829 | 1844 | 1485 |
| 65° | 2673 | 1589 | 1223 |
| 70° | 2491 | 1294 | 963  |
| 75° | 2242 | 973  | 701  |
| 80° | 1890 | 630  | 473  |
| 85° | 1412 | 339  | 267  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 3197 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.0   | 1.2       |
| 10°-20°   | 156.6  | 3.5       |
| 20°-30°   | 227.1  | 5.0       |
| 30°-40°   | 258.7  | 5.7       |
| 40°-50°   | 252.2  | 5.6       |
| 50°-60°   | 212.2  | 4.7       |
| 60°-70°   | 148.7  | 3.3       |
| 70°-80°   | 76.3   | 1.7       |
| 80°-90°   | 20.5   | 0.5       |
| 90°-100°  | 34.5   | 0.8       |
| 100°-110° | 229.5  | 5.1       |
| 110°-120° | 413.3  | 9.1       |
| 120°-130° | 530.4  | 11.7      |
| 130°-140° | 570.5  | 12.6      |
| 140°-150° | 535.5  | 11.8      |
| 150°-160° | 433.1  | 9.6       |
| 160°-170° | 280.1  | 6.2       |
| 170°-180° | 96.6   | 2.1       |
| <hr/>     |        |           |
| 0°-30°    | 439.8  | 9.7       |
| 0°-40°    | 698.5  | 15.4      |
| 0°-60°    | 1163.0 | 25.7      |
| 0°-90°    | 1408.5 | 31.1      |
| 90°-120°  | 677.3  | 14.9      |
| 90°-150°  | 2313.7 | 51.1      |
| 90°-180°  | 3124.0 | 68.9      |
| 0°-180°   | 4532.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 596  | 596   | 596  | 596   | 596  |      |
| 5°   | 595  | 593   | 588  | 592   | 592  | 56   |
| 15°  | 565  | 563   | 553  | 553   | 549  | 159  |
| 25°  | 513  | 506   | 489  | 484   | 479  | 236  |
| 35°  | 442  | 431   | 411  | 398   | 391  | 277  |
| 45°  | 362  | 349   | 324  | 306   | 299  | 279  |
| 55°  | 274  | 260   | 235  | 214   | 207  | 245  |
| 65°  | 186  | 170   | 147  | 129   | 122  | 184  |
| 75°  | 99   | 86    | 67   | 57    | 54   | 105  |
| 85°  | 25   | 17    | 14   | 14    | 14   | 27   |
| 90°  | 1    | 7     | 12   | 16    | 18   | 4    |
| 95°  | 43   | 41    | 12   | 16    | 16   | 53   |
| 105° | 222  | 225   | 225  | 225   | 224  | 235  |
| 115° | 416  | 420   | 421  | 418   | 413  | 412  |
| 125° | 592  | 597   | 597  | 594   | 592  | 529  |
| 135° | 738  | 742   | 741  | 739   | 735  | 569  |
| 145° | 856  | 857   | 857  | 858   | 853  | 535  |
| 155° | 942  | 938   | 939  | 942   | 935  | 434  |
| 165° | 994  | 990   | 990  | 995   | 989  | 281  |
| 175° | 1017 | 1012  | 1013 | 1019  | 1012 | 97   |
| 180° | 1017 | 1017  | 1017 | 1017  | 1017 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 595.5 | 595.5 | 595.5 | 595.5 | 595.5 |
| 2.5°   | 596.9 | 595.5 | 591.0 | 595.5 | 595.1 |
| 5°     | 594.6 | 592.8 | 587.9 | 592.4 | 591.5 |
| 7.5°   | 590.1 | 588.3 | 582.5 | 586.1 | 585.2 |
| 10°    | 583.4 | 582.0 | 575.7 | 577.1 | 575.7 |
| 12.5°  | 575.7 | 573.9 | 564.9 | 565.8 | 563.6 |
| 15°    | 565.4 | 562.7 | 553.2 | 552.8 | 548.7 |
| 17.5°  | 554.6 | 550.5 | 539.3 | 537.0 | 533.9 |
| 20°    | 541.5 | 537.0 | 522.7 | 520.4 | 516.4 |
| 22.5°  | 527.2 | 522.7 | 507.4 | 502.4 | 499.3 |
| 25°    | 512.8 | 506.0 | 489.4 | 483.5 | 478.6 |
| 27.5°  | 496.6 | 488.5 | 470.9 | 463.3 | 458.3 |
| 30°    | 478.6 | 470.0 | 451.1 | 440.8 | 436.7 |
| 32.5°  | 461.0 | 450.7 | 431.3 | 419.7 | 414.3 |
| 35°    | 441.7 | 430.9 | 410.7 | 397.6 | 391.3 |
| 37.5°  | 423.3 | 410.2 | 389.5 | 374.2 | 367.9 |
| 40°    | 403.5 | 390.0 | 368.4 | 351.3 | 345.9 |
| 42.5°  | 382.8 | 368.8 | 346.3 | 330.1 | 321.6 |
| 45°    | 361.6 | 348.6 | 323.8 | 305.9 | 299.1 |
| 47.5°  | 339.6 | 326.1 | 301.4 | 282.9 | 275.3 |
| 50°    | 318.9 | 304.1 | 278.4 | 259.5 | 252.8 |
| 52.5°  | 296.4 | 281.1 | 257.3 | 236.6 | 229.8 |
| 55°    | 274.4 | 260.0 | 234.8 | 214.5 | 207.4 |
| 57.5°  | 251.9 | 236.6 | 212.3 | 192.5 | 186.2 |
| 60°    | 230.3 | 214.5 | 190.3 | 170.5 | 163.7 |
| 62.5°  | 207.4 | 192.5 | 167.8 | 149.8 | 143.0 |
| 65°    | 185.8 | 170.5 | 146.6 | 128.6 | 121.9 |
| 67.5°  | 164.2 | 148.9 | 125.9 | 108.8 | 103.5 |
| 70°    | 142.1 | 126.8 | 104.4 | 90.4  | 85.0  |
| 72.5°  | 120.5 | 105.7 | 85.0  | 72.4  | 69.3  |
| 75°    | 99.0  | 85.5  | 66.6  | 56.7  | 53.5  |
| 77.5°  | 76.9  | 66.1  | 50.4  | 42.7  | 40.0  |
| 80°    | 58.5  | 47.7  | 35.1  | 31.0  | 30.1  |
| 82.5°  | 40.5  | 31.0  | 23.4  | 22.0  | 21.6  |
| 85°    | 24.7  | 16.6  | 14.4  | 13.9  | 13.5  |
| 87.5°  | 10.3  | 7.2   | 6.7   | 6.7   | 6.3   |
| 90°    | 0.8   | 6.8   | 12.1  | 15.8  | 18.1  |
| 92.5°  | 14.3  | 7.5   | 12.1  | 15.8  | 16.6  |
| 95°    | 43.0  | 40.7  | 12.1  | 15.8  | 15.8  |
| 97.5°  | 80.7  | 85.2  | 13.6  | 15.1  | 15.8  |
| 100°   | 125.9 | 128.1 | 131.2 | 18.8  | 15.8  |
| 102.5° | 171.9 | 174.9 | 176.4 | 177.9 | 114.6 |
| 105°   | 221.6 | 224.6 | 224.6 | 224.6 | 223.9 |
| 107.5° | 272.9 | 272.9 | 274.4 | 275.1 | 272.1 |
| 110°   | 322.6 | 322.6 | 324.1 | 321.9 | 322.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 369.3  | 371.6  | 372.4  | 369.3  | 367.8  |
| 115°   | 416.1  | 419.8  | 420.6  | 417.6  | 413.1  |
| 117.5° | 465.1  | 465.1  | 468.1  | 463.6  | 462.1  |
| 120°   | 510.3  | 509.5  | 511.8  | 510.3  | 506.5  |
| 122.5° | 550.2  | 554.0  | 554.8  | 553.3  | 548.7  |
| 125°   | 591.7  | 597.0  | 597.0  | 594.0  | 591.7  |
| 127.5° | 631.7  | 635.4  | 634.7  | 633.2  | 627.1  |
| 130°   | 667.8  | 671.6  | 672.4  | 670.1  | 666.3  |
| 132.5° | 704.0  | 708.5  | 706.3  | 706.3  | 702.5  |
| 135°   | 737.9  | 742.5  | 741.0  | 739.4  | 734.9  |
| 137.5° | 769.6  | 774.1  | 772.6  | 772.6  | 768.8  |
| 140°   | 800.5  | 802.0  | 801.3  | 802.8  | 798.2  |
| 142.5° | 828.4  | 829.1  | 830.7  | 830.7  | 826.1  |
| 145°   | 855.5  | 857.0  | 857.0  | 857.8  | 853.3  |
| 147.5° | 879.6  | 879.6  | 880.4  | 881.2  | 875.9  |
| 150°   | 902.3  | 900.8  | 902.3  | 903.8  | 897.7  |
| 152.5° | 924.1  | 920.3  | 921.9  | 923.4  | 918.1  |
| 155°   | 942.2  | 937.7  | 939.2  | 941.5  | 935.4  |
| 157.5° | 956.5  | 954.3  | 954.3  | 956.5  | 950.5  |
| 160°   | 971.6  | 967.1  | 967.8  | 970.9  | 964.8  |
| 162.5° | 983.7  | 979.1  | 979.9  | 984.4  | 977.6  |
| 165°   | 994.2  | 989.7  | 990.4  | 995.0  | 988.9  |
| 167.5° | 1002.5 | 998.0  | 998.7  | 1004.0 | 997.2  |
| 170°   | 1009.3 | 1004.0 | 1004.8 | 1010.8 | 1004.0 |
| 172.5° | 1013.8 | 1008.5 | 1010.0 | 1015.3 | 1008.5 |
| 175°   | 1016.8 | 1012.3 | 1013.1 | 1019.1 | 1012.3 |
| 177.5° | 1019.1 | 1014.6 | 1015.3 | 1020.6 | 1014.6 |
| 180°   | 1016.8 | 1016.8 | 1016.8 | 1016.8 | 1016.8 |

(END OF REPORT)