

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: P1036056

Luminaire Tested: S125RDIW-B610D770UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036056
REPORT IS A COMBINATION OF REPORTS P1006784 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D770UB35-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

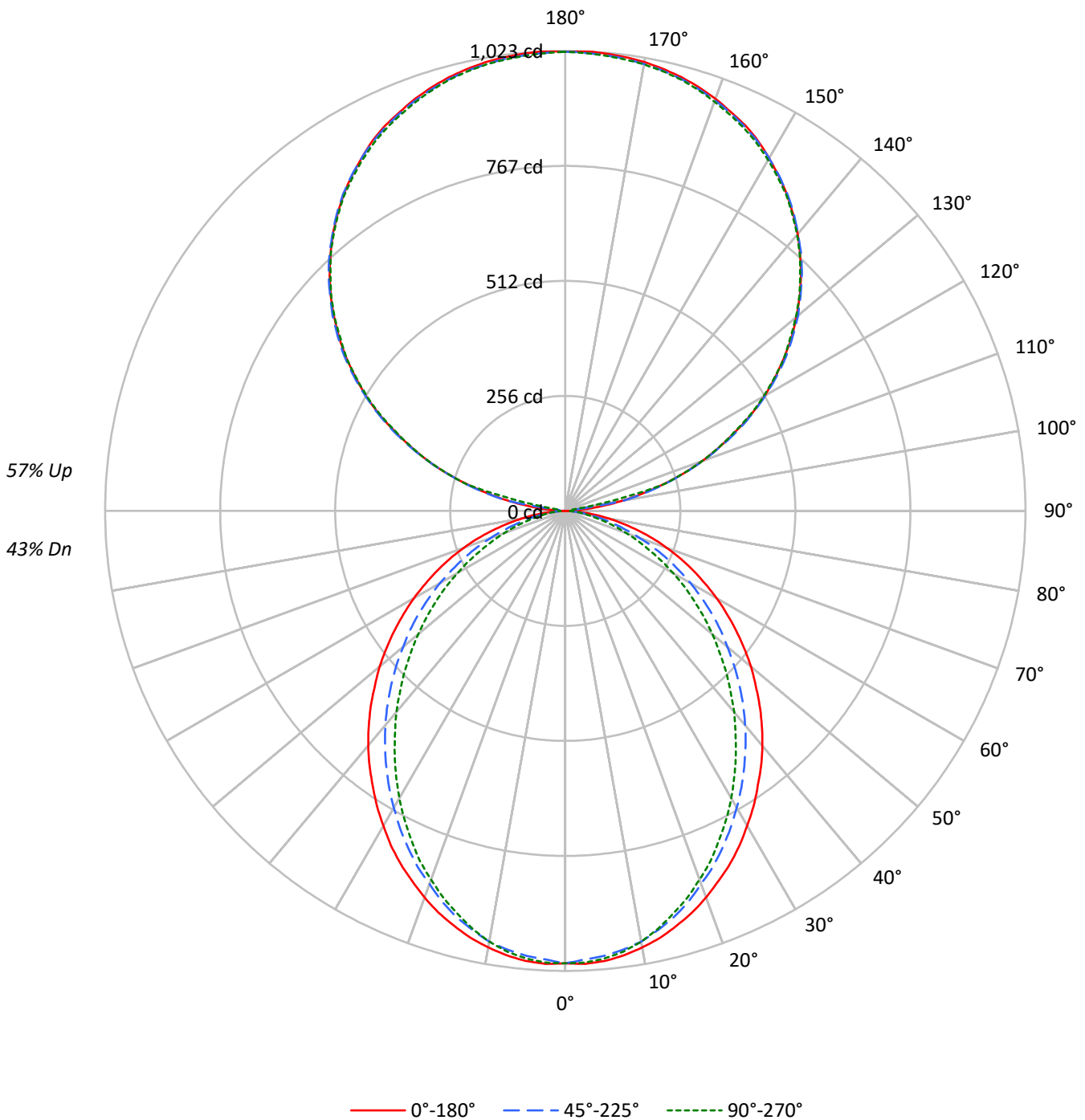
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5515.0 lumens
Efficiency: N/A
Efficacy: 116.8 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: General Diffuse

Input Watts (W): 47.2
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 | | | | 20 |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 106 | 106 | 106 | 106 | 96 | 96 | 96 | 96 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | | | | 43 |
| 1 | 96 | 92 | 88 | 85 | 88 | 84 | 81 | 78 | 70 | 68 | 66 | 57 | 55 | 54 | 44 | 43 | 42 | | | | 37 |
| 2 | 88 | 81 | 75 | 70 | 80 | 74 | 69 | 65 | 62 | 58 | 55 | 50 | 47 | 45 | 39 | 38 | 36 | | | | 31 |
| 3 | 80 | 71 | 64 | 58 | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 44 | 41 | 38 | 35 | 33 | 31 | | | | 26 |
| 4 | 74 | 63 | 55 | 49 | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 40 | 36 | 33 | 31 | 29 | 27 | | | | 23 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 40 | 43 | 38 | 34 | 36 | 32 | 29 | 28 | 26 | 23 | | | | 20 |
| 6 | 62 | 50 | 42 | 37 | 57 | 46 | 39 | 34 | 39 | 34 | 30 | 32 | 28 | 25 | 26 | 23 | 21 | | | | 18 |
| 7 | 58 | 45 | 38 | 32 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 21 | 18 | | | | 16 |
| 8 | 53 | 41 | 34 | 28 | 49 | 38 | 31 | 27 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 | | | | 14 |
| 9 | 50 | 38 | 30 | 25 | 45 | 35 | 28 | 24 | 30 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | | | | 13 |
| 10 | 46 | 35 | 27 | 23 | 42 | 32 | 26 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 18 | 16 | 14 | | | | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6446 | 6446 | 6446 |
| 5° | 6447 | 6286 | 6295 |
| 10° | 6384 | 6127 | 6073 |
| 15° | 6294 | 5905 | 5780 |
| 20° | 6182 | 5639 | 5473 |
| 25° | 6054 | 5378 | 5144 |
| 30° | 5896 | 5092 | 4799 |
| 35° | 5736 | 4801 | 4432 |
| 40° | 5584 | 4502 | 4073 |
| 45° | 5400 | 4180 | 3698 |
| 50° | 5215 | 3838 | 3316 |
| 55° | 4999 | 3501 | 2920 |
| 60° | 4779 | 3115 | 2510 |
| 65° | 4515 | 2684 | 2066 |
| 70° | 4209 | 2186 | 1626 |
| 75° | 3786 | 1644 | 1185 |
| 80° | 3193 | 1065 | 799 |
| 85° | 2390 | 571 | 450 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5400 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.7 | 1.7 |
| 10°-20° | 264.6 | 4.8 |
| 20°-30° | 383.7 | 7.0 |
| 30°-40° | 437.1 | 7.9 |
| 40°-50° | 426.1 | 7.7 |
| 50°-60° | 358.6 | 6.5 |
| 60°-70° | 251.3 | 4.6 |
| 70°-80° | 128.8 | 2.3 |
| 80°-90° | 33.6 | 0.6 |
| 90°-100° | 34.7 | 0.6 |
| 100°-110° | 230.4 | 4.2 |
| 110°-120° | 415.0 | 7.5 |
| 120°-130° | 532.7 | 9.7 |
| 130°-140° | 572.9 | 10.4 |
| 140°-150° | 537.7 | 9.7 |
| 150°-160° | 434.9 | 7.9 |
| 160°-170° | 281.3 | 5.1 |
| 170°-180° | 97.0 | 1.8 |
| 0°-30° | 743.0 | 13.5 |
| 0°-40° | 1180.1 | 21.4 |
| 0°-60° | 1964.8 | 35.6 |
| 0°-90° | 2378.5 | 43.1 |
| 90°-120° | 680.1 | 12.3 |
| 90°-150° | 2323.3 | 42.1 |
| 90°-180° | 3136.0 | 56.9 |
| 0°-180° | 5515.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1006 | 1006 | 1006 | 1006 | 1006 | |
| 5° | 1005 | 1002 | 993 | 1001 | 999 | 95 |
| 15° | 955 | 951 | 935 | 934 | 927 | 269 |
| 25° | 866 | 855 | 827 | 817 | 808 | 399 |
| 35° | 746 | 728 | 694 | 672 | 661 | 467 |
| 45° | 611 | 589 | 547 | 517 | 505 | 471 |
| 55° | 464 | 439 | 397 | 362 | 350 | 414 |
| 65° | 314 | 288 | 248 | 217 | 206 | 311 |
| 75° | 167 | 144 | 112 | 96 | 90 | 177 |
| 85° | 42 | 28 | 24 | 24 | 23 | 46 |
| 90° | 1 | 7 | 12 | 16 | 18 | 5 |
| 95° | 43 | 41 | 12 | 16 | 16 | 53 |
| 105° | 222 | 226 | 226 | 226 | 225 | 236 |
| 115° | 418 | 422 | 422 | 419 | 415 | 414 |
| 125° | 594 | 600 | 600 | 596 | 594 | 531 |
| 135° | 741 | 746 | 744 | 742 | 738 | 571 |
| 145° | 859 | 861 | 861 | 861 | 857 | 537 |
| 155° | 946 | 942 | 943 | 945 | 939 | 436 |
| 165° | 998 | 994 | 995 | 999 | 993 | 282 |
| 175° | 1021 | 1016 | 1017 | 1023 | 1016 | 97 |
| 180° | 1021 | 1021 | 1021 | 1021 | 1021 | |



TEST NUMBER: P1036056

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1006.1 | 1006.1 | 1006.1 | 1006.1 | 1006.1 |
| 2.5° | 1008.4 | 1006.1 | 998.5 | 1006.1 | 1005.3 |
| 5° | 1004.6 | 1001.5 | 993.2 | 1000.8 | 999.2 |
| 7.5° | 997.0 | 993.9 | 984.0 | 990.1 | 988.6 |
| 10° | 985.6 | 983.3 | 972.6 | 974.9 | 972.6 |
| 12.5° | 972.6 | 969.6 | 954.4 | 955.9 | 952.1 |
| 15° | 955.2 | 950.6 | 934.6 | 933.9 | 927.0 |
| 17.5° | 936.9 | 930.1 | 911.1 | 907.3 | 902.0 |
| 20° | 914.9 | 907.3 | 883.0 | 879.2 | 872.3 |
| 22.5° | 890.6 | 883.0 | 857.1 | 848.8 | 843.5 |
| 25° | 866.3 | 854.9 | 826.7 | 816.9 | 808.5 |
| 27.5° | 838.9 | 825.2 | 795.6 | 782.7 | 774.3 |
| 30° | 808.5 | 794.1 | 762.2 | 744.7 | 737.8 |
| 32.5° | 778.9 | 761.4 | 728.7 | 709.0 | 699.8 |
| 35° | 746.2 | 728.0 | 693.8 | 671.7 | 661.1 |
| 37.5° | 715.0 | 693.0 | 658.1 | 632.2 | 621.6 |
| 40° | 681.6 | 658.8 | 622.3 | 593.5 | 584.3 |
| 42.5° | 646.7 | 623.1 | 585.1 | 557.7 | 543.3 |
| 45° | 610.9 | 588.9 | 547.1 | 516.7 | 505.3 |
| 47.5° | 573.7 | 550.9 | 509.1 | 478.0 | 465.0 |
| 50° | 538.8 | 513.7 | 470.4 | 438.4 | 427.1 |
| 52.5° | 500.8 | 474.9 | 434.6 | 399.7 | 388.3 |
| 55° | 463.5 | 439.2 | 396.7 | 362.5 | 350.3 |
| 57.5° | 425.5 | 399.7 | 358.7 | 325.2 | 314.6 |
| 60° | 389.1 | 362.5 | 321.4 | 288.0 | 276.6 |
| 62.5° | 350.3 | 325.2 | 283.4 | 253.0 | 241.6 |
| 65° | 313.8 | 288.0 | 247.7 | 217.3 | 205.9 |
| 67.5° | 277.4 | 251.5 | 212.8 | 183.9 | 174.8 |
| 70° | 240.1 | 214.3 | 176.3 | 152.7 | 143.6 |
| 72.5° | 203.6 | 178.6 | 143.6 | 122.3 | 117.0 |
| 75° | 167.2 | 144.4 | 112.5 | 95.7 | 90.4 |
| 77.5° | 129.9 | 111.7 | 85.1 | 72.2 | 67.6 |
| 80° | 98.8 | 80.5 | 59.3 | 52.4 | 50.9 |
| 82.5° | 68.4 | 52.4 | 39.5 | 37.2 | 36.5 |
| 85° | 41.8 | 28.1 | 24.3 | 23.6 | 22.8 |
| 87.5° | 17.5 | 12.2 | 11.4 | 11.4 | 10.6 |
| 90° | 0.8 | 6.8 | 12.1 | 15.9 | 18.2 |
| 92.5° | 14.4 | 7.6 | 12.1 | 15.9 | 16.7 |
| 95° | 43.1 | 40.9 | 12.1 | 15.9 | 15.9 |
| 97.5° | 81.0 | 85.5 | 13.6 | 15.1 | 15.9 |
| 100° | 126.4 | 128.7 | 131.7 | 18.9 | 15.9 |
| 102.5° | 172.6 | 175.6 | 177.1 | 178.6 | 115.0 |
| 105° | 222.5 | 225.6 | 225.6 | 225.6 | 224.8 |
| 107.5° | 274.0 | 274.0 | 275.5 | 276.3 | 273.2 |
| 110° | 324.0 | 324.0 | 325.5 | 323.2 | 324.0 |



TEST NUMBER: P1036056

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 370.9 | 373.2 | 373.9 | 370.9 | 369.4 |
| 115° | 417.8 | 421.6 | 422.4 | 419.3 | 414.8 |
| 117.5° | 467.0 | 467.0 | 470.0 | 465.5 | 464.0 |
| 120° | 512.4 | 511.7 | 513.9 | 512.4 | 508.6 |
| 122.5° | 552.5 | 556.3 | 557.1 | 555.6 | 551.0 |
| 125° | 594.2 | 599.5 | 599.5 | 596.4 | 594.2 |
| 127.5° | 634.3 | 638.1 | 637.3 | 635.8 | 629.7 |
| 130° | 670.6 | 674.4 | 675.2 | 672.9 | 669.1 |
| 132.5° | 706.9 | 711.5 | 709.2 | 709.2 | 705.4 |
| 135° | 741.0 | 745.5 | 744.0 | 742.5 | 738.0 |
| 137.5° | 772.8 | 777.3 | 775.8 | 775.8 | 772.0 |
| 140° | 803.8 | 805.3 | 804.6 | 806.1 | 801.6 |
| 142.5° | 831.8 | 832.6 | 834.1 | 834.1 | 829.6 |
| 145° | 859.1 | 860.6 | 860.6 | 861.4 | 856.8 |
| 147.5° | 883.3 | 883.3 | 884.1 | 884.8 | 879.5 |
| 150° | 906.0 | 904.5 | 906.0 | 907.5 | 901.5 |
| 152.5° | 928.0 | 924.2 | 925.7 | 927.2 | 921.9 |
| 155° | 946.1 | 941.6 | 943.1 | 945.4 | 939.3 |
| 157.5° | 960.5 | 958.2 | 958.2 | 960.5 | 954.5 |
| 160° | 975.6 | 971.1 | 971.9 | 974.9 | 968.8 |
| 162.5° | 987.8 | 983.2 | 984.0 | 988.5 | 981.7 |
| 165° | 998.4 | 993.8 | 994.6 | 999.1 | 993.1 |
| 167.5° | 1006.7 | 1002.1 | 1002.9 | 1008.2 | 1001.4 |
| 170° | 1013.5 | 1008.2 | 1009.0 | 1015.0 | 1008.2 |
| 172.5° | 1018.0 | 1012.7 | 1014.2 | 1019.5 | 1012.7 |
| 175° | 1021.1 | 1016.5 | 1017.3 | 1023.3 | 1016.5 |
| 177.5° | 1023.3 | 1018.8 | 1019.5 | 1024.8 | 1018.8 |
| 180° | 1021.1 | 1021.1 | 1021.1 | 1021.1 | 1021.1 |

(END OF REPORT)