

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: P1034834

Luminaire Tested: S125RDIW-B375D770UB2750-4F0-XX-W2A-F1\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1034834  
REPORT IS A COMBINATION OF REPORTS P1006548 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-F1\_5000K  
Description: Define 5 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}  
{m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

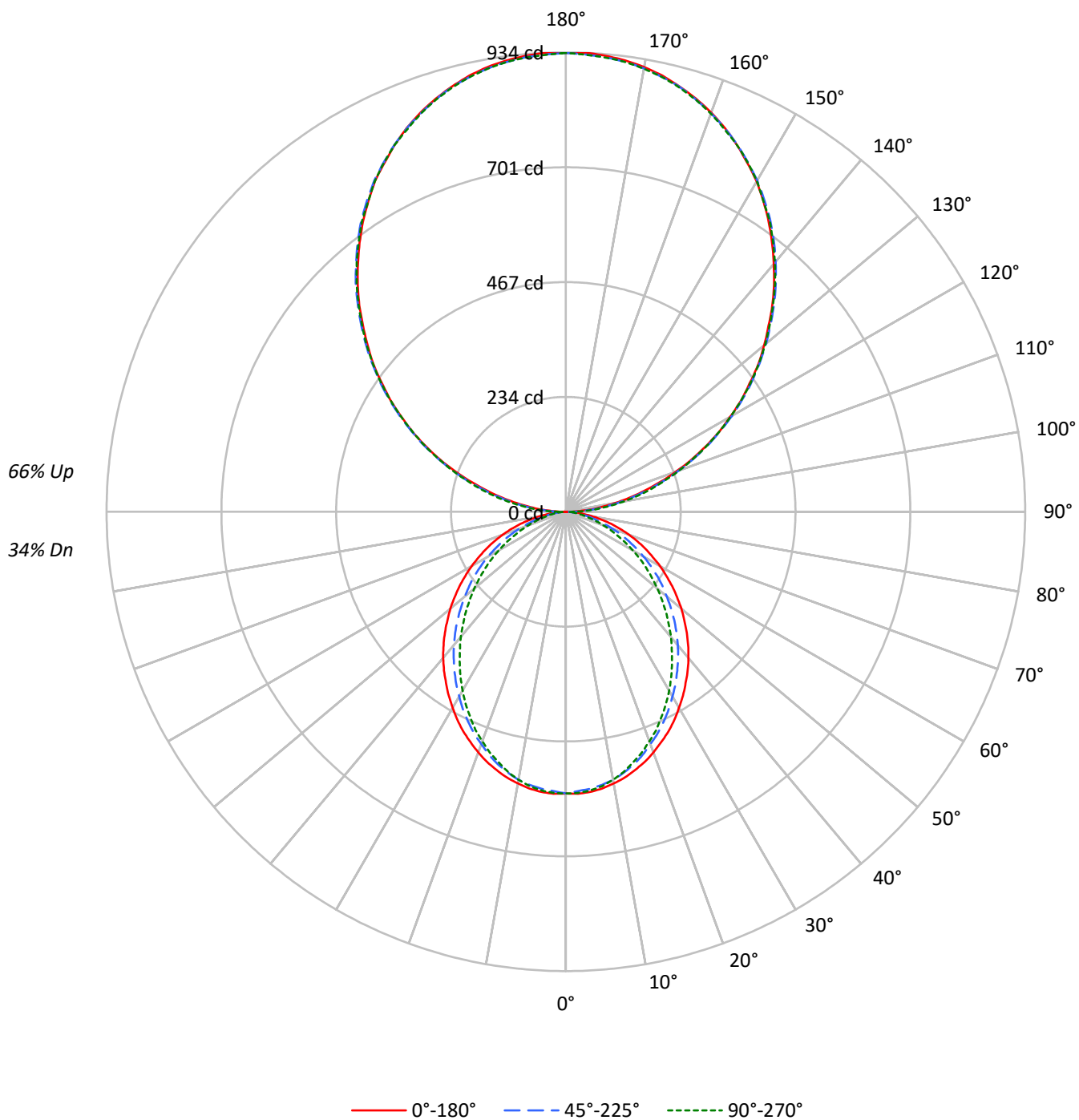
Lumens per Lamp: N/A  
Luminaire Lumens: 3957.9 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

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 | 93 | 93 | 93 | 93 | 75 | 75 | 75 | 57 | 57 | 57 | 42 | 42 | 42 |
| 1   | 94  | 90  | 87  | 83  | 85 | 82 | 78 | 76 | 65 | 63 | 61 | 51 | 49 | 48 | 37 | 36 | 35 |
| 2   | 86  | 79  | 73  | 68  | 77 | 71 | 66 | 62 | 58 | 54 | 51 | 45 | 42 | 40 | 33 | 31 | 30 |
| 3   | 79  | 69  | 62  | 57  | 71 | 63 | 57 | 52 | 51 | 47 | 43 | 40 | 37 | 34 | 29 | 27 | 26 |
| 4   | 72  | 61  | 54  | 48  | 65 | 56 | 49 | 44 | 45 | 40 | 37 | 35 | 32 | 29 | 26 | 24 | 22 |
| 5   | 66  | 55  | 47  | 41  | 59 | 50 | 43 | 38 | 40 | 35 | 32 | 32 | 28 | 25 | 24 | 21 | 19 |
| 6   | 61  | 49  | 41  | 36  | 55 | 45 | 38 | 33 | 36 | 31 | 28 | 29 | 25 | 22 | 21 | 19 | 17 |
| 7   | 56  | 44  | 36  | 31  | 50 | 40 | 34 | 29 | 33 | 28 | 24 | 26 | 22 | 20 | 20 | 17 | 15 |
| 8   | 52  | 40  | 33  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 18 | 18 | 15 | 14 |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 23 | 27 | 23 | 19 | 22 | 18 | 16 | 17 | 14 | 12 |
| 10  | 45  | 33  | 26  | 22  | 41 | 31 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 15 | 13 | 11 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3669 | 3669 | 3669 |
| 5°  | 3670 | 3578 | 3584 |
| 10° | 3634 | 3487 | 3457 |
| 15° | 3582 | 3361 | 3290 |
| 20° | 3519 | 3210 | 3115 |
| 25° | 3446 | 3061 | 2928 |
| 30° | 3356 | 2898 | 2732 |
| 35° | 3265 | 2733 | 2523 |
| 40° | 3179 | 2562 | 2319 |
| 45° | 3075 | 2379 | 2105 |
| 50° | 2969 | 2184 | 1888 |
| 55° | 2845 | 1993 | 1662 |
| 60° | 2721 | 1774 | 1428 |
| 65° | 2570 | 1528 | 1176 |
| 70° | 2396 | 1243 | 925  |
| 75° | 2156 | 935  | 675  |
| 80° | 1816 | 605  | 455  |
| 85° | 1361 | 324  | 257  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3075 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.9   | 1.4       |
| 10°-20°   | 150.6  | 3.8       |
| 20°-30°   | 218.4  | 5.5       |
| 30°-40°   | 248.8  | 6.3       |
| 40°-50°   | 242.5  | 6.1       |
| 50°-60°   | 204.1  | 5.2       |
| 60°-70°   | 143.0  | 3.6       |
| 70°-80°   | 73.3   | 1.9       |
| 80°-90°   | 19.7   | 0.5       |
| 90°-100°  | 62.0   | 1.6       |
| 100°-110° | 184.3  | 4.7       |
| 110°-120° | 312.5  | 7.9       |
| 120°-130° | 411.4  | 10.4      |
| 130°-140° | 461.1  | 11.6      |
| 140°-150° | 451.9  | 11.4      |
| 150°-160° | 379.6  | 9.6       |
| 160°-170° | 252.3  | 6.4       |
| 170°-180° | 88.3   | 2.2       |
| 0°-30°    | 422.9  | 10.7      |
| 0°-40°    | 671.7  | 17.0      |
| 0°-60°    | 1118.4 | 28.3      |
| 0°-90°    | 1354.4 | 34.2      |
| 90°-120°  | 558.8  | 14.1      |
| 90°-150°  | 1883.3 | 47.6      |
| 90°-180°  | 2603.0 | 65.8      |
| 0°-180°   | 3957.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 573 | 573   | 573 | 573   | 573 |      |
| 5°   | 572 | 570   | 565 | 570   | 569 | 54   |
| 15°  | 544 | 541   | 532 | 532   | 528 | 153  |
| 25°  | 493 | 487   | 471 | 465   | 460 | 227  |
| 35°  | 425 | 414   | 395 | 382   | 376 | 266  |
| 45°  | 348 | 335   | 311 | 294   | 288 | 268  |
| 55°  | 264 | 250   | 226 | 206   | 199 | 236  |
| 65°  | 179 | 164   | 141 | 124   | 117 | 177  |
| 75°  | 95  | 82    | 64  | 54    | 52  | 101  |
| 85°  | 24  | 16    | 14  | 13    | 13  | 26   |
| 90°  | 1   | 6     | 12  | 15    | 17  | 5    |
| 95°  | 47  | 49    | 56  | 61    | 62  | 49   |
| 105° | 166 | 169   | 174 | 178   | 180 | 176  |
| 115° | 313 | 316   | 317 | 316   | 316 | 310  |
| 125° | 457 | 461   | 462 | 460   | 460 | 409  |
| 135° | 594 | 598   | 599 | 599   | 596 | 458  |
| 145° | 719 | 722   | 724 | 724   | 722 | 450  |
| 155° | 823 | 823   | 824 | 827   | 823 | 379  |
| 165° | 895 | 894   | 894 | 897   | 893 | 253  |
| 175° | 931 | 928   | 928 | 932   | 927 | 88   |
| 180° | 933 | 933   | 933 | 933   | 933 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 572.7 | 572.7 | 572.7 | 572.7 | 572.7 |
| 2.5°   | 574.0 | 572.7 | 568.3 | 572.7 | 572.2 |
| 5°     | 571.8 | 570.1 | 565.3 | 569.6 | 568.8 |
| 7.5°   | 567.5 | 565.7 | 560.1 | 563.6 | 562.7 |
| 10°    | 561.0 | 559.7 | 553.6 | 554.9 | 553.6 |
| 12.5°  | 553.6 | 551.9 | 543.3 | 544.1 | 542.0 |
| 15°    | 543.7 | 541.1 | 532.0 | 531.6 | 527.7 |
| 17.5°  | 533.3 | 529.4 | 518.6 | 516.4 | 513.4 |
| 20°    | 520.8 | 516.4 | 502.6 | 500.4 | 496.5 |
| 22.5°  | 506.9 | 502.6 | 487.9 | 483.1 | 480.1 |
| 25°    | 493.1 | 486.6 | 470.6 | 465.0 | 460.2 |
| 27.5°  | 477.5 | 469.7 | 452.9 | 445.5 | 440.7 |
| 30°    | 460.2 | 452.0 | 433.8 | 423.9 | 420.0 |
| 32.5°  | 443.3 | 433.4 | 414.8 | 403.5 | 398.4 |
| 35°    | 424.7 | 414.4 | 394.9 | 382.4 | 376.3 |
| 37.5°  | 407.0 | 394.5 | 374.6 | 359.9 | 353.8 |
| 40°    | 388.0 | 375.0 | 354.2 | 337.8 | 332.6 |
| 42.5°  | 368.1 | 354.7 | 333.0 | 317.5 | 309.3 |
| 45°    | 347.8 | 335.2 | 311.4 | 294.1 | 287.6 |
| 47.5°  | 326.6 | 313.6 | 289.8 | 272.1 | 264.7 |
| 50°    | 306.7 | 292.4 | 267.7 | 249.6 | 243.1 |
| 52.5°  | 285.0 | 270.3 | 247.4 | 227.5 | 221.0 |
| 55°    | 263.8 | 250.0 | 225.8 | 206.3 | 199.4 |
| 57.5°  | 242.2 | 227.5 | 204.2 | 185.1 | 179.1 |
| 60°    | 221.5 | 206.3 | 183.0 | 163.9 | 157.4 |
| 62.5°  | 199.4 | 185.1 | 161.3 | 144.0 | 137.5 |
| 65°    | 178.6 | 163.9 | 141.0 | 123.7 | 117.2 |
| 67.5°  | 157.9 | 143.2 | 121.1 | 104.7 | 99.5  |
| 70°    | 136.7 | 122.0 | 100.3 | 86.9  | 81.7  |
| 72.5°  | 115.9 | 101.6 | 81.7  | 69.6  | 66.6  |
| 75°    | 95.2  | 82.2  | 64.0  | 54.5  | 51.5  |
| 77.5°  | 74.0  | 63.6  | 48.4  | 41.1  | 38.5  |
| 80°    | 56.2  | 45.8  | 33.7  | 29.8  | 29.0  |
| 82.5°  | 38.9  | 29.8  | 22.5  | 21.2  | 20.8  |
| 85°    | 23.8  | 16.0  | 13.8  | 13.4  | 13.0  |
| 87.5°  | 9.9   | 6.9   | 6.5   | 6.5   | 6.1   |
| 90°    | 0.7   | 6.5   | 11.6  | 15.2  | 17.4  |
| 92.5°  | 21.8  | 25.4  | 31.9  | 37.0  | 38.5  |
| 95°    | 47.2  | 48.6  | 55.9  | 61.0  | 62.4  |
| 97.5°  | 72.6  | 73.3  | 83.5  | 87.8  | 88.6  |
| 100°   | 101.6 | 101.6 | 111.1 | 117.6 | 119.1 |
| 102.5° | 132.9 | 136.5 | 140.1 | 147.4 | 149.5 |
| 105°   | 165.5 | 169.1 | 173.5 | 177.9 | 180.0 |
| 107.5° | 201.1 | 204.7 | 208.4 | 210.5 | 210.5 |
| 110°   | 238.1 | 241.7 | 243.9 | 246.1 | 245.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 275.9 | 277.3 | 280.2 | 280.9 | 279.5 |
| 115°   | 312.9 | 315.8 | 317.2 | 316.5 | 315.8 |
| 117.5° | 350.6 | 351.4 | 352.8 | 353.5 | 350.6 |
| 120°   | 385.5 | 389.1 | 389.8 | 389.8 | 386.9 |
| 122.5° | 423.2 | 424.0 | 426.1 | 425.4 | 423.2 |
| 125°   | 456.6 | 461.0 | 461.7 | 460.3 | 459.5 |
| 127.5° | 493.7 | 495.8 | 496.6 | 495.8 | 494.4 |
| 130°   | 526.3 | 530.0 | 531.4 | 530.7 | 529.2 |
| 132.5° | 559.0 | 565.5 | 564.8 | 564.1 | 561.9 |
| 135°   | 593.8 | 598.2 | 598.9 | 598.9 | 596.0 |
| 137.5° | 626.5 | 630.9 | 632.3 | 633.0 | 629.4 |
| 140°   | 657.7 | 661.4 | 663.5 | 665.0 | 661.4 |
| 142.5° | 688.9 | 691.8 | 694.7 | 695.5 | 691.8 |
| 145°   | 719.4 | 722.3 | 724.5 | 724.5 | 722.3 |
| 147.5° | 747.7 | 749.9 | 751.4 | 753.6 | 747.7 |
| 150°   | 776.1 | 775.3 | 778.2 | 778.2 | 776.8 |
| 152.5° | 799.3 | 800.7 | 801.5 | 803.6 | 800.7 |
| 155°   | 823.2 | 823.2 | 824.0 | 826.9 | 823.2 |
| 157.5° | 845.0 | 843.6 | 844.3 | 847.2 | 842.1 |
| 160°   | 863.9 | 861.7 | 862.4 | 865.3 | 861.7 |
| 162.5° | 880.6 | 879.1 | 879.1 | 882.8 | 878.4 |
| 165°   | 895.1 | 893.7 | 894.4 | 897.3 | 892.9 |
| 167.5° | 908.2 | 905.3 | 905.3 | 909.6 | 905.3 |
| 170°   | 918.3 | 915.4 | 915.4 | 919.8 | 914.7 |
| 172.5° | 925.6 | 922.7 | 922.7 | 927.1 | 922.7 |
| 175°   | 930.7 | 927.8 | 927.8 | 932.1 | 927.1 |
| 177.5° | 934.3 | 931.4 | 930.7 | 935.0 | 930.0 |
| 180°   | 932.9 | 932.9 | 932.9 | 932.9 | 932.9 |

(END OF REPORT)