

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: P1000060

Luminaire Tested: SA2XXRDIP-B675D925UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1000060  
REPORT IS A COMBINATION OF REPORTS P988617 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-B675D925UB50-4F0-XX-W2A-F4  
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}  
{m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

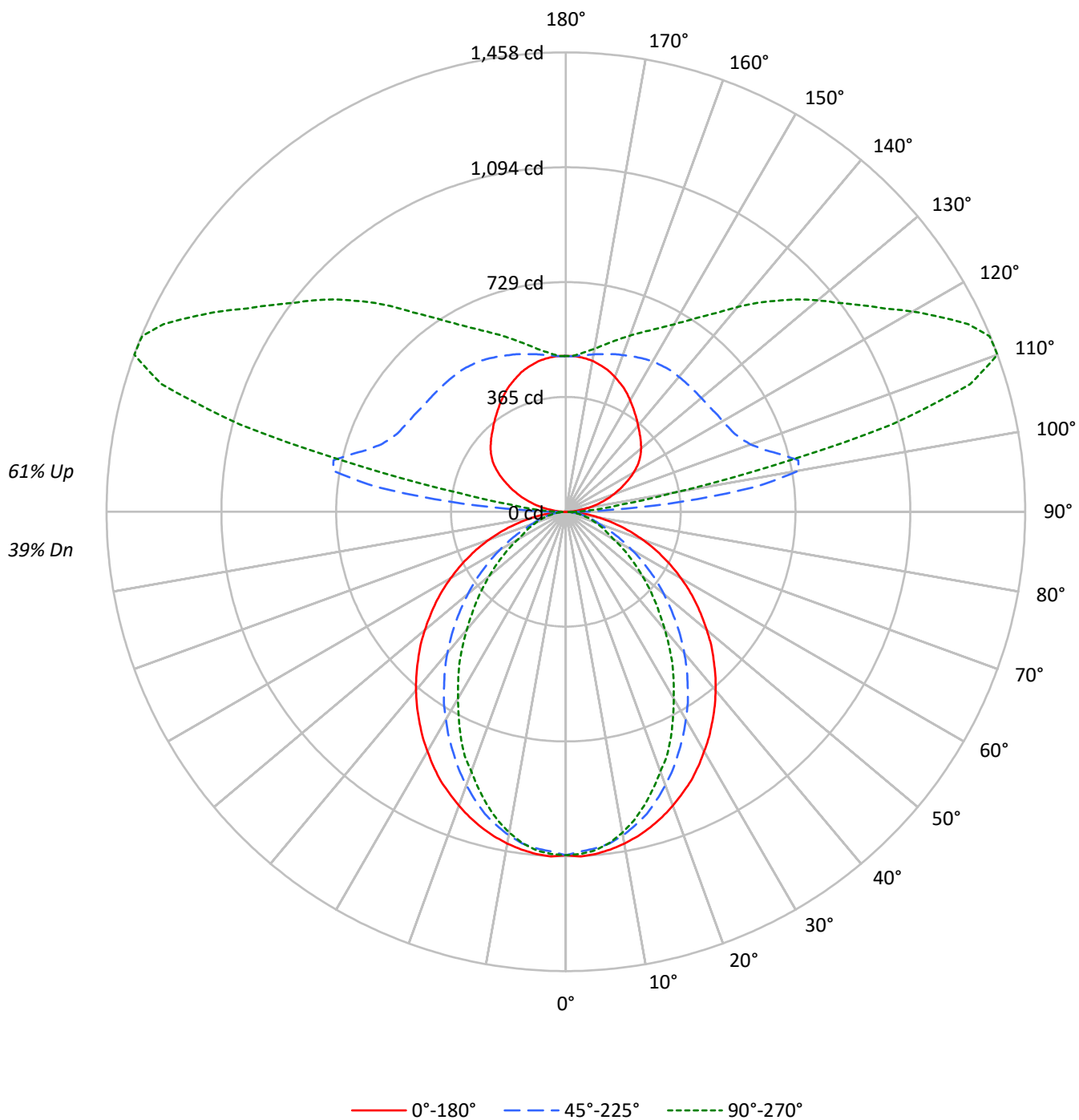
Lumens per Lamp: N/A  
Luminaire Lumens: 5689.9 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 64.4  
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 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 |
| 1   | 96  | 92  | 88  | 85  | 87 | 84 | 80 | 78 | 68 | 66 | 64 | 54 | 53 | 52 | 42 | 41 | 40 |
| 2   | 88  | 80  | 75  | 70  | 79 | 73 | 69 | 64 | 60 | 57 | 54 | 48 | 46 | 44 | 37 | 36 | 34 |
| 3   | 80  | 71  | 64  | 59  | 73 | 65 | 59 | 54 | 54 | 49 | 46 | 43 | 40 | 37 | 33 | 31 | 30 |
| 4   | 73  | 63  | 56  | 50  | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 39 | 35 | 32 | 30 | 28 | 26 |
| 5   | 67  | 56  | 49  | 43  | 61 | 52 | 45 | 40 | 43 | 38 | 34 | 35 | 31 | 28 | 27 | 25 | 23 |
| 6   | 62  | 51  | 43  | 37  | 56 | 46 | 40 | 35 | 39 | 34 | 30 | 31 | 28 | 25 | 25 | 22 | 20 |
| 7   | 58  | 46  | 38  | 33  | 52 | 42 | 35 | 31 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 18 |
| 8   | 53  | 42  | 34  | 29  | 49 | 38 | 32 | 27 | 32 | 27 | 23 | 26 | 23 | 20 | 21 | 18 | 16 |
| 9   | 50  | 38  | 31  | 26  | 45 | 35 | 29 | 24 | 29 | 25 | 21 | 24 | 21 | 18 | 19 | 17 | 15 |
| 10  | 46  | 35  | 28  | 23  | 42 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 19 | 16 | 18 | 15 | 13 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17256 | 17256 | 17256 |
| 5°  | 17284 | 16417 | 16295 |
| 10° | 17114 | 15571 | 15057 |
| 15° | 16879 | 14572 | 13645 |
| 20° | 16568 | 13435 | 12168 |
| 25° | 16249 | 12269 | 10817 |
| 30° | 15820 | 11133 | 9342  |
| 35° | 15400 | 9988  | 8075  |
| 40° | 14975 | 8863  | 6769  |
| 45° | 14480 | 7703  | 5632  |
| 50° | 13965 | 6584  | 4585  |
| 55° | 13432 | 5464  | 3640  |
| 60° | 12811 | 4370  | 2754  |
| 65° | 12101 | 3332  | 2239  |
| 70° | 11238 | 2416  | 1780  |
| 75° | 10153 | 1843  | 1359  |
| 80° | 8583  | 1249  | 912   |
| 85° | 5989  | 570   | 440   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14480 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.2  | 1.8       |
| 10°-20°   | 280.5  | 4.9       |
| 20°-30°   | 393.8  | 6.9       |
| 30°-40°   | 429.2  | 7.5       |
| 40°-50°   | 394.5  | 6.9       |
| 50°-60°   | 309.8  | 5.4       |
| 60°-70°   | 201.7  | 3.5       |
| 70°-80°   | 103.8  | 1.8       |
| 80°-90°   | 29.7   | 0.5       |
| 90°-100°  | 200.3  | 3.5       |
| 100°-110° | 677.1  | 11.9      |
| 110°-120° | 711.8  | 12.5      |
| 120°-130° | 585.3  | 10.3      |
| 130°-140° | 470.3  | 8.3       |
| 140°-150° | 355.3  | 6.2       |
| 150°-160° | 249.8  | 4.4       |
| 160°-170° | 147.1  | 2.6       |
| 170°-180° | 47.8   | 0.8       |
| 0°-30°    | 776.4  | 13.6      |
| 0°-40°    | 1205.7 | 21.2      |
| 0°-60°    | 1910.0 | 33.6      |
| 0°-90°    | 2245.2 | 39.5      |
| 90°-120°  | 1589.2 | 27.9      |
| 90°-150°  | 3000.1 | 52.7      |
| 90°-180°  | 3445.0 | 60.5      |
| 0°-180°   | 5689.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1090 | 1090  | 1090 | 1090  | 1090 |      |
| 5°   | 1090 | 1085  | 1072 | 1081  | 1078 | 103  |
| 15°  | 1037 | 1026  | 992  | 974   | 964  | 292  |
| 25°  | 941  | 910   | 844  | 804   | 789  | 433  |
| 35°  | 811  | 761   | 674  | 612   | 590  | 508  |
| 45°  | 663  | 597   | 493  | 423   | 400  | 512  |
| 55°  | 504  | 427   | 321  | 261   | 243  | 450  |
| 65°  | 340  | 260   | 172  | 138   | 135  | 337  |
| 75°  | 182  | 112   | 79   | 72    | 71   | 192  |
| 85°  | 42   | 22    | 19   | 19    | 19   | 49   |
| 90°  | 1    | 13    | 32   | 31    | 31   | 4    |
| 95°  | 33   | 82    | 372  | 141   | 108  | 34   |
| 105° | 116  | 175   | 704  | 1258  | 1071 | 123  |
| 115° | 204  | 258   | 589  | 1216  | 1409 | 203  |
| 125° | 285  | 337   | 566  | 985   | 1143 | 253  |
| 135° | 334  | 399   | 560  | 828   | 947  | 258  |
| 145° | 382  | 439   | 557  | 691   | 756  | 240  |
| 155° | 434  | 469   | 541  | 611   | 636  | 200  |
| 165° | 473  | 487   | 518  | 549   | 558  | 133  |
| 175° | 493  | 494   | 498  | 504   | 503  | 47   |
| 180° | 494  | 494   | 494  | 494   | 494  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1090.1 | 1090.1 | 1090.1 | 1090.1 | 1090.1 |
| 2.5°   | 1095.1 | 1090.1 | 1079.3 | 1089.1 | 1087.2 |
| 5°     | 1090.1 | 1085.2 | 1072.4 | 1081.3 | 1078.3 |
| 7.5°   | 1081.3 | 1075.3 | 1061.5 | 1065.5 | 1060.5 |
| 10°    | 1069.4 | 1062.5 | 1042.8 | 1039.8 | 1033.9 |
| 12.5°  | 1054.6 | 1045.7 | 1019.1 | 1013.2 | 1002.3 |
| 15°    | 1036.9 | 1026.0 | 992.5  | 973.7  | 963.9  |
| 17.5°  | 1016.1 | 1000.4 | 958.9  | 937.2  | 921.4  |
| 20°    | 992.5  | 972.7  | 923.4  | 898.7  | 877.0  |
| 22.5°  | 966.8  | 944.1  | 886.9  | 853.4  | 838.6  |
| 25°    | 941.2  | 909.6  | 844.5  | 804.0  | 789.2  |
| 27.5°  | 910.6  | 877.0  | 805.0  | 758.7  | 736.0  |
| 30°    | 878.0  | 840.5  | 761.6  | 711.3  | 684.7  |
| 32.5°  | 846.5  | 801.1  | 720.2  | 661.0  | 636.3  |
| 35°    | 810.9  | 760.6  | 673.8  | 611.7  | 590.0  |
| 37.5°  | 776.4  | 722.2  | 630.4  | 562.3  | 537.7  |
| 40°    | 739.9  | 680.7  | 585.0  | 515.0  | 489.3  |
| 42.5°  | 702.4  | 639.3  | 539.6  | 466.6  | 442.0  |
| 45°    | 663.0  | 596.9  | 493.3  | 423.2  | 399.6  |
| 47.5°  | 625.5  | 555.4  | 448.9  | 378.8  | 357.1  |
| 50°    | 584.0  | 514.0  | 405.5  | 337.4  | 316.7  |
| 52.5°  | 543.6  | 469.6  | 364.0  | 298.9  | 280.2  |
| 55°    | 504.1  | 427.2  | 320.6  | 261.4  | 242.7  |
| 57.5°  | 463.7  | 384.8  | 282.2  | 226.9  | 211.1  |
| 60°    | 422.2  | 343.3  | 241.7  | 191.4  | 175.6  |
| 62.5°  | 381.8  | 302.9  | 207.2  | 159.8  | 151.9  |
| 65°    | 340.4  | 260.4  | 171.7  | 138.1  | 135.2  |
| 67.5°  | 300.9  | 221.0  | 138.1  | 121.3  | 118.4  |
| 70°    | 259.5  | 182.5  | 114.4  | 104.6  | 100.6  |
| 72.5°  | 220.0  | 147.0  | 95.7   | 87.8   | 85.8   |
| 75°    | 181.5  | 112.5  | 78.9   | 72.0   | 71.0   |
| 77.5°  | 143.0  | 79.9   | 62.2   | 58.2   | 56.2   |
| 80°    | 107.5  | 57.2   | 47.4   | 43.4   | 43.4   |
| 82.5°  | 75.0   | 38.5   | 32.6   | 30.6   | 30.6   |
| 85°    | 42.4   | 21.7   | 18.7   | 18.7   | 18.7   |
| 87.5°  | 15.8   | 7.9    | 7.9    | 6.9    | 6.9    |
| 90°    | 1.0    | 12.8   | 32.3   | 30.9   | 31.4   |
| 92.5°  | 14.3   | 45.2   | 146.3  | 67.5   | 58.0   |
| 95°    | 33.3   | 81.7   | 372.5  | 140.6  | 108.3  |
| 97.5°  | 49.4   | 107.8  | 607.2  | 282.2  | 181.5  |
| 100°   | 73.2   | 132.1  | 750.6  | 562.0  | 340.2  |
| 102.5° | 95.0   | 153.9  | 755.4  | 950.2  | 663.2  |
| 105°   | 115.9  | 174.8  | 704.1  | 1258.5 | 1070.8 |
| 107.5° | 138.7  | 195.7  | 656.6  | 1370.1 | 1345.4 |
| 110°   | 161.5  | 217.1  | 624.3  | 1352.0 | 1457.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 182.4 | 237.6 | 603.4 | 1290.8 | 1455.7 |
| 115°   | 204.3 | 258.0 | 589.1 | 1215.8 | 1409.1 |
| 117.5° | 227.1 | 278.4 | 581.5 | 1144.0 | 1338.8 |
| 120°   | 248.0 | 298.4 | 574.8 | 1079.8 | 1271.3 |
| 122.5° | 267.9 | 318.8 | 571.0 | 1030.0 | 1201.0 |
| 125°   | 285.0 | 337.3 | 566.3 | 984.8  | 1143.0 |
| 127.5° | 299.3 | 354.9 | 563.4 | 946.4  | 1088.9 |
| 130°   | 311.7 | 370.6 | 561.5 | 907.4  | 1044.2 |
| 132.5° | 323.1 | 385.8 | 560.6 | 867.0  | 997.7  |
| 135°   | 334.5 | 399.1 | 559.6 | 827.6  | 947.3  |
| 137.5° | 344.9 | 410.4 | 559.6 | 787.6  | 898.9  |
| 140°   | 357.3 | 421.0 | 558.7 | 752.5  | 848.5  |
| 142.5° | 369.6 | 429.5 | 558.7 | 718.8  | 798.1  |
| 145°   | 382.0 | 439.0 | 556.8 | 691.2  | 756.3  |
| 147.5° | 395.3 | 446.6 | 553.9 | 667.0  | 719.3  |
| 150°   | 408.6 | 454.2 | 551.1 | 646.2  | 687.0  |
| 152.5° | 421.9 | 461.8 | 546.3 | 628.6  | 659.4  |
| 155°   | 434.2 | 468.9 | 540.6 | 611.4  | 635.7  |
| 157.5° | 444.7 | 474.6 | 534.9 | 595.3  | 614.8  |
| 160°   | 455.1 | 480.3 | 529.2 | 579.2  | 594.8  |
| 162.5° | 465.6 | 484.6 | 524.5 | 563.9  | 575.8  |
| 165°   | 473.2 | 487.4 | 517.8 | 549.2  | 557.7  |
| 167.5° | 479.8 | 490.3 | 512.1 | 535.9  | 540.6  |
| 170°   | 486.5 | 491.7 | 507.4 | 523.6  | 525.4  |
| 172.5° | 490.3 | 493.2 | 501.7 | 512.6  | 513.1  |
| 175°   | 493.1 | 493.6 | 497.9 | 504.0  | 502.6  |
| 177.5° | 495.0 | 494.1 | 494.1 | 497.9  | 495.0  |
| 180°   | 494.1 | 494.1 | 494.1 | 494.1  | 494.1  |

(END OF REPORT)