

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: P1025487

Luminaire Tested: S124DIP-B575D1035UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025487  
REPORT IS A COMBINATION OF REPORTS P996027 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B575D1035UB27-4F0-XX-W2A-F4  
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

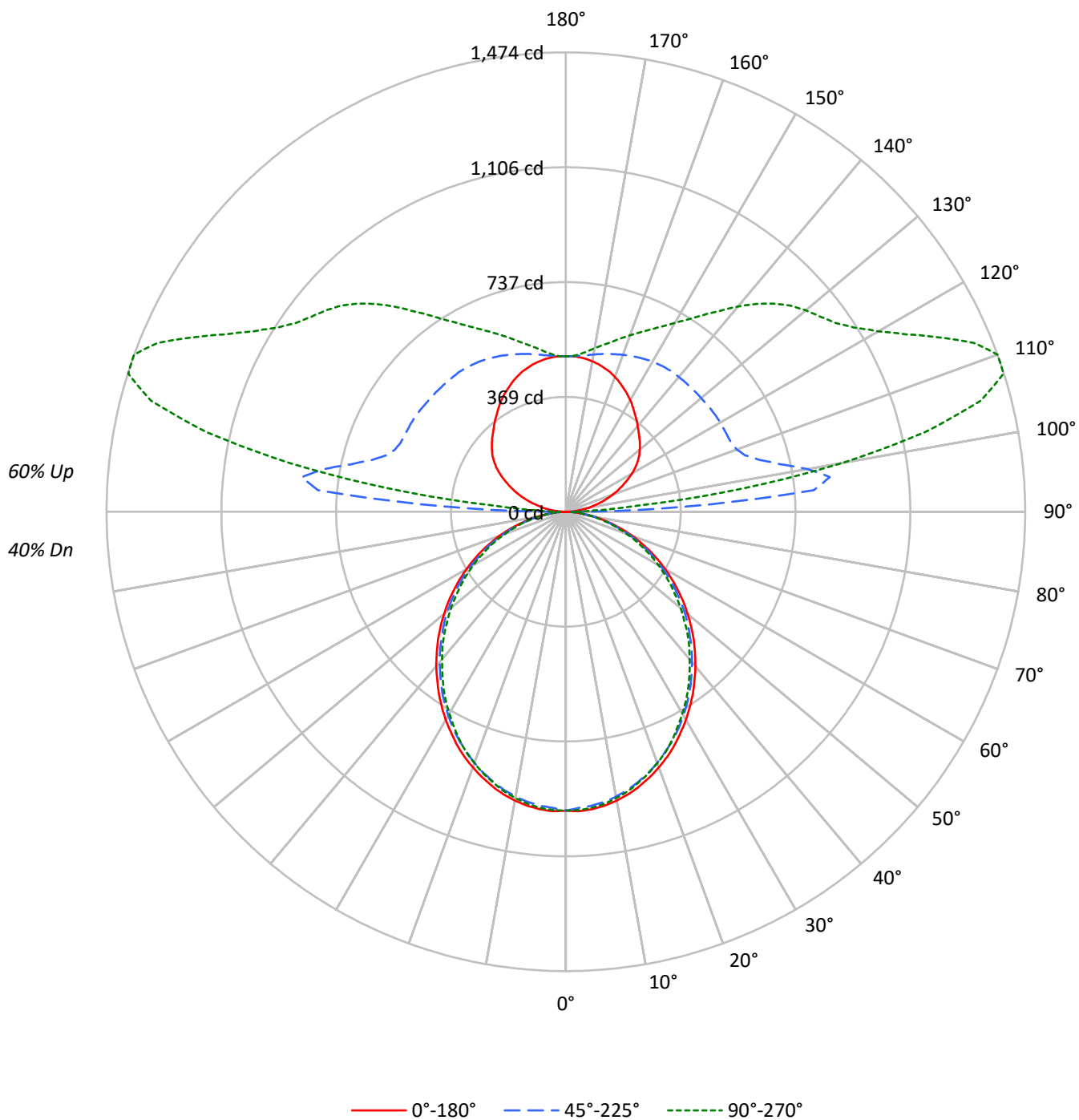
Lumens per Lamp: N/A  
Luminaire Lumens: 6102.3 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 52.5  
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 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 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 | 47 | 47 | 40 |
| 1   | 96  | 91  | 87  | 84  | 87 | 83 | 80 | 77 | 68 | 66 | 64 | 54 | 53 | 51 | 42 | 41 | 40 | 40 | 40 | 34 |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 63 | 60 | 56 | 53 | 48 | 45 | 43 | 37 | 35 | 34 | 34 | 34 | 28 |
| 3   | 79  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 48 | 44 | 42 | 39 | 36 | 33 | 30 | 29 | 29 | 29 | 24 |
| 4   | 73  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 34 | 31 | 29 | 27 | 25 | 25 | 25 | 21 |
| 5   | 67  | 55  | 47  | 41  | 60 | 51 | 44 | 38 | 42 | 37 | 33 | 34 | 30 | 27 | 26 | 24 | 21 | 21 | 21 | 18 |
| 6   | 61  | 49  | 41  | 36  | 56 | 45 | 38 | 33 | 38 | 32 | 28 | 30 | 27 | 24 | 24 | 21 | 19 | 19 | 19 | 16 |
| 7   | 57  | 44  | 37  | 31  | 51 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 | 17 | 17 | 14 |
| 8   | 52  | 40  | 33  | 27  | 48 | 37 | 30 | 26 | 31 | 26 | 22 | 25 | 21 | 18 | 20 | 17 | 15 | 15 | 15 | 12 |
| 9   | 49  | 37  | 29  | 24  | 44 | 34 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 18 | 16 | 13 | 13 | 13 | 11 |
| 10  | 46  | 34  | 27  | 22  | 41 | 31 | 25 | 20 | 26 | 21 | 18 | 21 | 18 | 15 | 17 | 14 | 12 | 12 | 12 | 10 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7819 | 7819 | 7819 |
| 5°  | 7826 | 7594 | 7603 |
| 10° | 7759 | 7383 | 7331 |
| 15° | 7648 | 7133 | 7025 |
| 20° | 7506 | 6861 | 6708 |
| 25° | 7345 | 6575 | 6366 |
| 30° | 7153 | 6265 | 5990 |
| 35° | 6953 | 5948 | 5628 |
| 40° | 6745 | 5607 | 5242 |
| 45° | 6527 | 5265 | 4882 |
| 50° | 6284 | 4933 | 4482 |
| 55° | 6022 | 4545 | 4086 |
| 60° | 5753 | 4121 | 3673 |
| 65° | 5445 | 3683 | 3208 |
| 70° | 5091 | 3156 | 2709 |
| 75° | 4562 | 2543 | 2169 |
| 80° | 3887 | 1839 | 1527 |
| 85° | 3020 | 1025 | 822  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6527 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.4   | 1.5       |
| 10°-20°   | 254.6  | 4.2       |
| 20°-30°   | 374.7  | 6.1       |
| 30°-40°   | 435.6  | 7.1       |
| 40°-50°   | 435.5  | 7.1       |
| 50°-60°   | 380.9  | 6.2       |
| 60°-70°   | 282.8  | 4.6       |
| 70°-80°   | 160.5  | 2.6       |
| 80°-90°   | 47.9   | 0.8       |
| 90°-100°  | 370.4  | 6.1       |
| 100°-110° | 753.4  | 12.3      |
| 110°-120° | 671.5  | 11.0      |
| 120°-130° | 564.1  | 9.2       |
| 130°-140° | 470.7  | 7.7       |
| 140°-150° | 359.5  | 5.9       |
| 150°-160° | 252.7  | 4.1       |
| 160°-170° | 148.6  | 2.4       |
| 170°-180° | 48.3   | 0.8       |
| 0°-30°    | 719.7  | 11.8      |
| 0°-40°    | 1155.3 | 18.9      |
| 0°-60°    | 1971.8 | 32.3      |
| 0°-90°    | 2462.9 | 40.4      |
| 90°-120°  | 1795.4 | 29.4      |
| 90°-150°  | 3189.7 | 52.3      |
| 90°-180°  | 3639.0 | 59.6      |
| 0°-180°   | 6102.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 959 | 959   | 959 | 959   | 959  |      |
| 5°   | 958 | 955   | 946 | 955   | 953  | 91   |
| 15°  | 912 | 909   | 897 | 902   | 900  | 257  |
| 25°  | 826 | 820   | 810 | 810   | 808  | 380  |
| 35°  | 711 | 705   | 694 | 689   | 685  | 444  |
| 45°  | 580 | 575   | 562 | 554   | 552  | 447  |
| 55°  | 439 | 436   | 426 | 416   | 412  | 393  |
| 65°  | 297 | 294   | 286 | 278   | 274  | 294  |
| 75°  | 158 | 154   | 151 | 148   | 147  | 168  |
| 85°  | 42  | 42    | 40  | 40    | 39   | 45   |
| 90°  | 1   | 8     | 18  | 20    | 21   | 5    |
| 95°  | 32  | 102   | 798 | 395   | 239  | 35   |
| 105° | 115 | 166   | 643 | 1384  | 1378 | 122  |
| 115° | 202 | 253   | 573 | 1101  | 1324 | 200  |
| 125° | 281 | 334   | 570 | 937   | 1056 | 251  |
| 135° | 334 | 398   | 565 | 832   | 944  | 258  |
| 145° | 385 | 441   | 562 | 702   | 771  | 242  |
| 155° | 438 | 473   | 547 | 619   | 646  | 202  |
| 165° | 477 | 492   | 524 | 555   | 563  | 135  |
| 175° | 498 | 499   | 503 | 510   | 508  | 47   |
| 180° | 499 | 499   | 499 | 499   | 499  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 0°     | 958.8 | 958.8 | 958.8 | 958.8  | 958.8  |
| 2.5°   | 961.9 | 959.6 | 951.1 | 958.8  | 958.1  |
| 5°     | 958.1 | 955.0 | 946.5 | 955.0  | 953.4  |
| 7.5°   | 951.1 | 948.1 | 938.8 | 945.8  | 945.0  |
| 10°    | 941.2 | 938.1 | 928.1 | 934.2  | 932.7  |
| 12.5°  | 928.1 | 925.0 | 914.3 | 921.2  | 918.9  |
| 15°    | 912.0 | 908.9 | 897.4 | 902.0  | 899.7  |
| 17.5°  | 893.5 | 889.7 | 878.9 | 882.0  | 880.5  |
| 20°    | 872.8 | 868.9 | 857.4 | 859.7  | 858.2  |
| 22.5°  | 850.5 | 845.1 | 833.6 | 838.2  | 835.1  |
| 25°    | 825.9 | 820.5 | 809.8 | 810.5  | 807.5  |
| 27.5°  | 798.2 | 792.9 | 782.9 | 781.3  | 777.5  |
| 30°    | 770.6 | 764.4 | 754.5 | 751.4  | 747.5  |
| 32.5°  | 741.4 | 736.0 | 725.3 | 721.4  | 717.6  |
| 35°    | 710.7 | 705.3 | 694.5 | 689.2  | 685.3  |
| 37.5°  | 678.4 | 673.8 | 662.3 | 656.9  | 651.5  |
| 40°    | 646.9 | 640.8 | 629.2 | 621.5  | 617.7  |
| 42.5°  | 613.1 | 610.0 | 597.0 | 587.7  | 585.4  |
| 45°    | 580.1 | 574.7 | 562.4 | 553.9  | 551.6  |
| 47.5°  | 545.5 | 541.6 | 530.1 | 520.9  | 514.8  |
| 50°    | 510.1 | 507.1 | 496.3 | 485.6  | 480.9  |
| 52.5°  | 475.6 | 471.7 | 460.2 | 451.0  | 444.8  |
| 55°    | 438.7 | 436.4 | 425.6 | 416.4  | 411.8  |
| 57.5°  | 404.1 | 401.8 | 391.1 | 381.8  | 377.2  |
| 60°    | 368.0 | 364.2 | 354.2 | 347.3  | 343.4  |
| 62.5°  | 332.7 | 329.6 | 318.8 | 312.7  | 308.9  |
| 65°    | 297.3 | 293.5 | 285.8 | 278.1  | 274.3  |
| 67.5°  | 261.2 | 258.1 | 250.5 | 242.8  | 242.0  |
| 70°    | 228.2 | 222.8 | 216.7 | 210.5  | 208.2  |
| 72.5°  | 192.8 | 187.5 | 182.9 | 178.2  | 175.9  |
| 75°    | 158.3 | 154.4 | 150.6 | 147.5  | 146.7  |
| 77.5°  | 124.5 | 122.9 | 119.1 | 118.3  | 116.0  |
| 80°    | 94.5  | 92.2  | 90.7  | 89.1   | 88.4   |
| 82.5°  | 65.3  | 64.5  | 64.5  | 63.8   | 63.0   |
| 85°    | 41.5  | 41.5  | 40.0  | 40.0   | 39.2   |
| 87.5°  | 20.0  | 19.2  | 18.4  | 18.4   | 18.4   |
| 90°    | 1.0   | 7.8   | 17.6  | 19.6   | 20.6   |
| 92.5°  | 13.7  | 75.4  | 384.1 | 126.8  | 89.2   |
| 95°    | 32.3  | 101.9 | 798.5 | 395.3  | 239.1  |
| 97.5°  | 53.9  | 112.6 | 854.3 | 807.3  | 574.1  |
| 100°   | 74.5  | 127.4 | 787.7 | 1116.8 | 898.4  |
| 102.5° | 94.1  | 145.0 | 704.4 | 1310.9 | 1180.6 |
| 105°   | 114.6 | 166.1 | 642.7 | 1383.9 | 1378.5 |
| 107.5° | 137.2 | 187.6 | 602.5 | 1361.8 | 1472.5 |
| 110°   | 159.7 | 209.2 | 583.9 | 1283.4 | 1474.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 181.3 | 230.8 | 575.1 | 1187.4 | 1416.7 |
| 115°   | 201.8 | 253.2 | 573.1 | 1101.2 | 1323.6 |
| 117.5° | 223.4 | 274.3 | 572.2 | 1033.6 | 1232.5 |
| 120°   | 244.9 | 294.9 | 572.2 | 988.0  | 1158.0 |
| 122.5° | 264.5 | 315.0 | 571.2 | 958.2  | 1099.3 |
| 125°   | 281.2 | 334.1 | 570.2 | 937.2  | 1056.2 |
| 127.5° | 296.9 | 351.7 | 568.2 | 917.0  | 1028.7 |
| 130°   | 309.6 | 368.9 | 567.3 | 893.0  | 1005.2 |
| 132.5° | 322.3 | 383.6 | 566.3 | 864.6  | 978.8  |
| 135°   | 334.1 | 397.8 | 565.3 | 831.8  | 944.5  |
| 137.5° | 345.8 | 410.0 | 565.3 | 796.6  | 904.3  |
| 140°   | 358.6 | 421.2 | 564.3 | 762.2  | 860.2  |
| 142.5° | 372.3 | 431.6 | 564.3 | 730.4  | 813.2  |
| 145°   | 385.0 | 440.9 | 562.4 | 701.5  | 771.0  |
| 147.5° | 399.7 | 449.7 | 559.4 | 677.5  | 731.9  |
| 150°   | 413.4 | 458.0 | 556.5 | 655.4  | 699.5  |
| 152.5° | 426.2 | 465.8 | 551.6 | 636.8  | 670.1  |
| 155°   | 437.9 | 472.8 | 546.7 | 619.2  | 645.6  |
| 157.5° | 449.7 | 479.1 | 541.8 | 602.5  | 623.1  |
| 160°   | 460.5 | 484.5 | 535.9 | 585.9  | 602.5  |
| 162.5° | 470.3 | 488.9 | 530.0 | 569.7  | 582.9  |
| 165°   | 477.1 | 491.8 | 524.2 | 555.0  | 563.3  |
| 167.5° | 485.0 | 494.2 | 518.3 | 542.3  | 547.7  |
| 170°   | 489.9 | 496.2 | 512.4 | 529.6  | 533.0  |
| 172.5° | 494.8 | 497.7 | 506.5 | 518.3  | 518.3  |
| 175°   | 497.7 | 498.7 | 502.6 | 509.5  | 507.5  |
| 177.5° | 499.7 | 498.7 | 499.7 | 503.1  | 499.7  |
| 180°   | 498.7 | 498.7 | 498.7 | 498.7  | 498.7  |

(END OF REPORT)