

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: P1001407

Luminaire Tested: SA4XXDIP-B575D1035UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1001407  
REPORT IS A COMBINATION OF REPORTS P996026 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-B575D1035UB27-4F0-XX-W2A-F1  
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

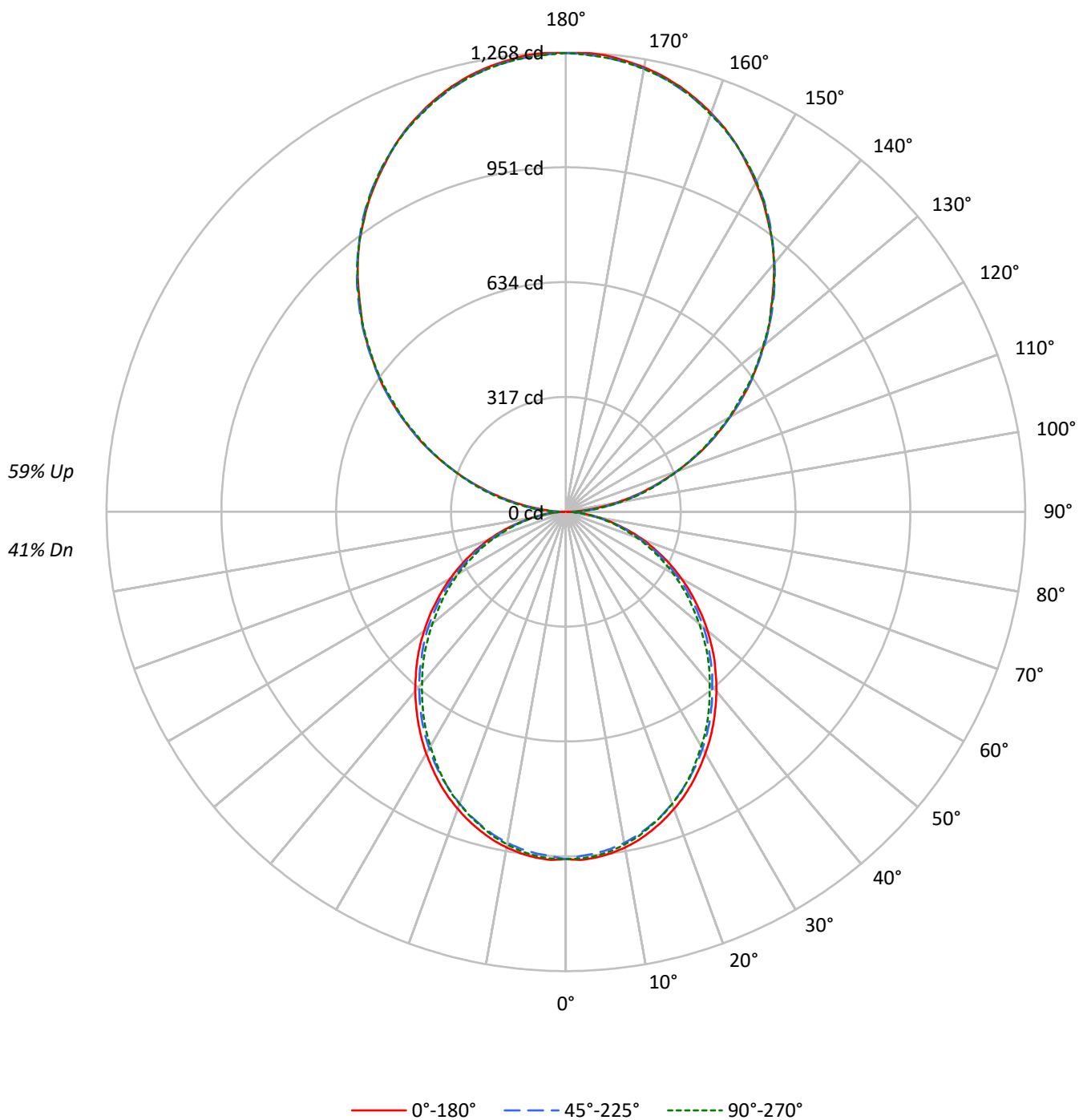
Lumens per Lamp: N/A  
Luminaire Lumens: 5978.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 |    |    |    | 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 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 63 | 63 | 63 | 48 | 48 | 48 |
| 1   | 96  | 91  | 88  | 84  | 87 | 84 | 80 | 77 | 69 | 66 | 64 | 55 | 53 | 52 | 42 | 41 | 40 |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 63 | 60 | 56 | 53 | 48 | 46 | 43 | 37 | 36 | 34 |
| 3   | 80  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 48 | 45 | 43 | 39 | 37 | 33 | 31 | 29 |
| 4   | 73  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 34 | 31 | 30 | 27 | 25 |
| 5   | 67  | 55  | 47  | 41  | 61 | 51 | 44 | 38 | 42 | 37 | 33 | 34 | 30 | 27 | 27 | 24 | 22 |
| 6   | 61  | 49  | 41  | 36  | 56 | 45 | 38 | 33 | 38 | 32 | 28 | 31 | 27 | 24 | 24 | 21 | 19 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 |
| 8   | 53  | 40  | 33  | 28  | 48 | 37 | 30 | 26 | 31 | 26 | 22 | 26 | 22 | 19 | 20 | 17 | 15 |
| 9   | 49  | 37  | 29  | 24  | 45 | 34 | 27 | 23 | 29 | 23 | 20 | 23 | 20 | 17 | 19 | 16 | 14 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 26 | 21 | 18 | 22 | 18 | 15 | 17 | 14 | 12 |

**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  | 4.3       |
| 20°-30°   | 374.7  | 6.3       |
| 30°-40°   | 435.6  | 7.3       |
| 40°-50°   | 435.5  | 7.3       |
| 50°-60°   | 380.9  | 6.4       |
| 60°-70°   | 282.8  | 4.7       |
| 70°-80°   | 160.5  | 2.7       |
| 80°-90°   | 48.7   | 0.8       |
| 90°-100°  | 82.6   | 1.4       |
| 100°-110° | 247.3  | 4.1       |
| 110°-120° | 420.1  | 7.0       |
| 120°-130° | 554.0  | 9.3       |
| 130°-140° | 622.3  | 10.4      |
| 140°-150° | 611.6  | 10.2      |
| 150°-160° | 514.4  | 8.6       |
| 160°-170° | 342.3  | 5.7       |
| 170°-180° | 119.8  | 2.0       |
| 0°-30°    | 719.7  | 12.0      |
| 0°-40°    | 1155.3 | 19.3      |
| 0°-60°    | 1971.8 | 33.0      |
| 0°-90°    | 2463.7 | 41.2      |
| 90°-120°  | 749.9  | 12.5      |
| 90°-150°  | 2537.8 | 42.5      |
| 90°-180°  | 3514.0 | 58.8      |
| 0°-180°   | 5978.0 | 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°  | 3    | 14    | 22   | 27    | 29   | 7    |
| 95°  | 59   | 68    | 74   | 77    | 77   | 64   |
| 105° | 228  | 229   | 233  | 236   | 239  | 242  |
| 115° | 427  | 427   | 425  | 424   | 423  | 421  |
| 125° | 622  | 622   | 621  | 619   | 617  | 554  |
| 135° | 802  | 808   | 808  | 806   | 803  | 621  |
| 145° | 975  | 979   | 980  | 979   | 976  | 610  |
| 155° | 1117 | 1117  | 1116 | 1120  | 1116 | 514  |
| 165° | 1216 | 1213  | 1211 | 1217  | 1213 | 343  |
| 175° | 1265 | 1260  | 1259 | 1266  | 1259 | 120  |
| 180° | 1267 | 1267  | 1267 | 1267  | 1267 |      |

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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°    | 2.9   | 13.7  | 21.6  | 27.4  | 29.4  |
| 92.5°  | 25.5  | 38.2  | 43.1  | 46.0  | 47.0  |
| 95°    | 58.8  | 67.6  | 74.4  | 77.4  | 77.4  |
| 97.5°  | 94.0  | 101.9 | 109.7 | 113.6 | 113.6 |
| 100°   | 137.1 | 141.1 | 149.9 | 151.8 | 151.8 |
| 102.5° | 182.2 | 183.2 | 191.0 | 194.0 | 194.9 |
| 105°   | 228.2 | 229.2 | 233.1 | 236.1 | 239.0 |
| 107.5° | 276.2 | 277.2 | 278.2 | 282.1 | 281.1 |
| 110°   | 325.2 | 327.2 | 326.2 | 324.2 | 327.2 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 376.2  | 376.2  | 374.2  | 374.2  | 374.2  |
| 115°   | 427.1  | 427.1  | 425.1  | 424.2  | 423.2  |
| 117.5° | 475.1  | 475.1  | 474.1  | 471.2  | 468.2  |
| 120°   | 523.1  | 527.0  | 524.1  | 519.2  | 521.1  |
| 122.5° | 573.0  | 574.0  | 573.0  | 570.1  | 565.2  |
| 125°   | 622.0  | 622.0  | 621.0  | 619.1  | 617.1  |
| 127.5° | 666.1  | 669.0  | 667.1  | 665.1  | 664.1  |
| 130°   | 713.1  | 716.1  | 716.1  | 714.1  | 710.2  |
| 132.5° | 761.1  | 763.1  | 762.1  | 760.1  | 759.2  |
| 135°   | 802.3  | 808.1  | 808.1  | 806.2  | 803.2  |
| 137.5° | 848.3  | 851.2  | 853.2  | 850.3  | 851.2  |
| 140°   | 894.3  | 896.3  | 896.3  | 895.3  | 894.3  |
| 142.5° | 936.5  | 938.4  | 937.4  | 937.4  | 937.4  |
| 145°   | 974.7  | 978.6  | 979.6  | 978.6  | 975.6  |
| 147.5° | 1013.9 | 1018.7 | 1017.8 | 1016.8 | 1015.8 |
| 150°   | 1049.1 | 1053.0 | 1053.0 | 1053.0 | 1052.1 |
| 152.5° | 1082.4 | 1084.4 | 1085.4 | 1088.3 | 1085.4 |
| 155°   | 1116.7 | 1116.7 | 1115.7 | 1119.6 | 1115.7 |
| 157.5° | 1146.1 | 1144.1 | 1144.1 | 1147.1 | 1144.1 |
| 160°   | 1171.6 | 1170.6 | 1169.6 | 1172.5 | 1167.6 |
| 162.5° | 1195.1 | 1192.1 | 1191.2 | 1197.0 | 1192.1 |
| 165°   | 1215.6 | 1212.7 | 1210.7 | 1216.6 | 1212.7 |
| 167.5° | 1232.3 | 1228.4 | 1228.4 | 1234.3 | 1228.4 |
| 170°   | 1246.0 | 1241.1 | 1242.1 | 1248.0 | 1241.1 |
| 172.5° | 1255.8 | 1251.9 | 1251.9 | 1258.7 | 1251.9 |
| 175°   | 1264.6 | 1259.7 | 1258.7 | 1265.6 | 1258.7 |
| 177.5° | 1268.5 | 1263.6 | 1263.6 | 1270.5 | 1262.7 |
| 180°   | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 |

(END OF REPORT)