

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: P1001743

Luminaire Tested: SA4XXDIP-B795D1035UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1001743  
REPORT IS A COMBINATION OF REPORTS P996365 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-B795D1035UB40-4F0-XX-W2A-D1  
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

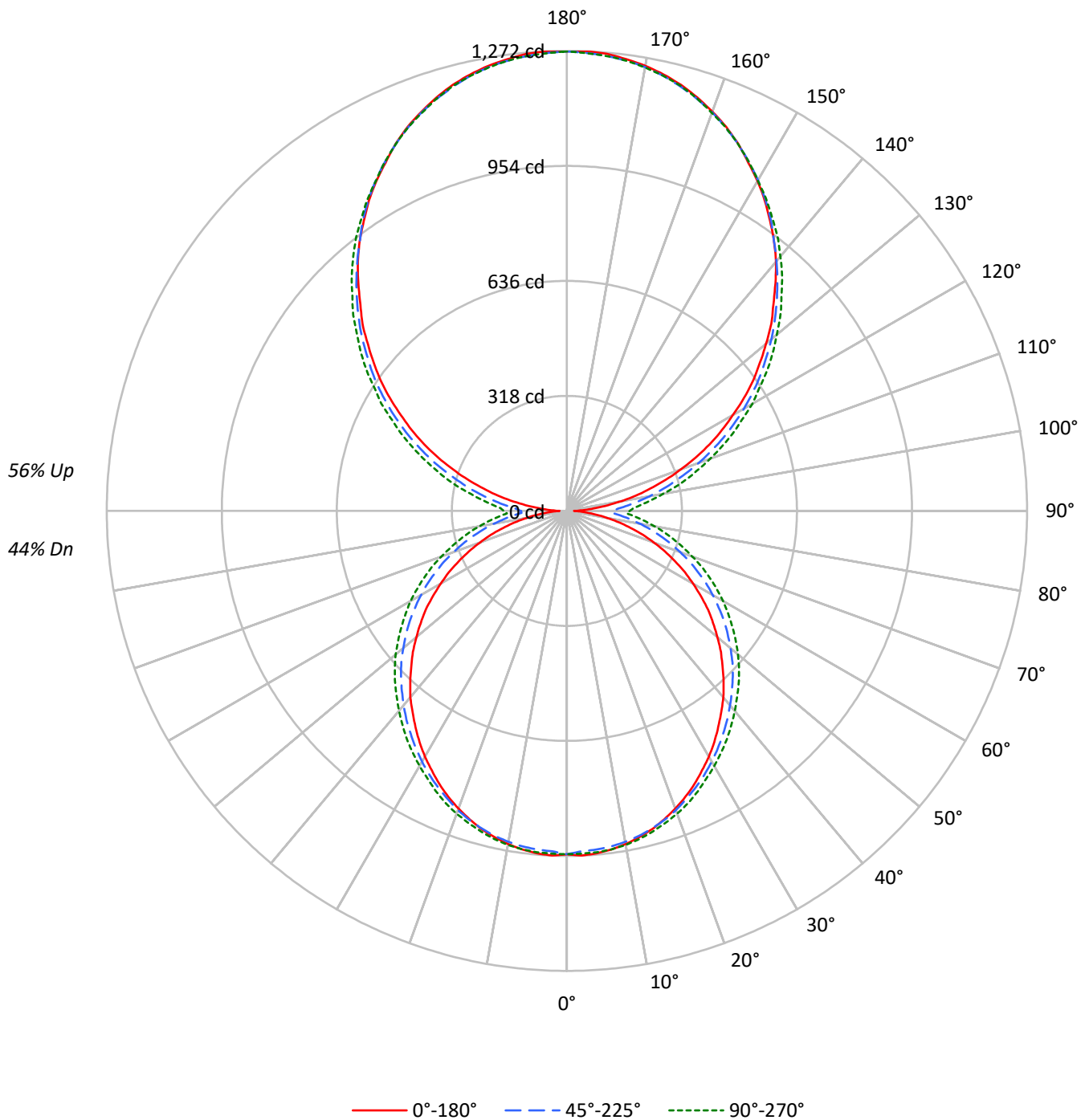
Lumens per Lamp: N/A  
Luminaire Lumens: 6765.0 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 |
| 1   | 96  | 91  | 87  | 83  | 87 | 83 | 80 | 76 | 69 | 66 | 64 | 56 | 54 | 52 | 44 | 42 | 41 |
| 2   | 87  | 79  | 72  | 67  | 79 | 72 | 67 | 62 | 60 | 56 | 52 | 48 | 45 | 43 | 38 | 36 | 34 |
| 3   | 79  | 69  | 61  | 55  | 72 | 63 | 57 | 51 | 52 | 47 | 43 | 42 | 39 | 36 | 33 | 31 | 28 |
| 4   | 72  | 61  | 53  | 46  | 65 | 56 | 49 | 43 | 46 | 41 | 37 | 38 | 34 | 30 | 29 | 27 | 24 |
| 5   | 66  | 54  | 46  | 40  | 60 | 50 | 42 | 37 | 41 | 36 | 31 | 34 | 29 | 26 | 26 | 23 | 21 |
| 6   | 61  | 48  | 40  | 34  | 55 | 44 | 37 | 32 | 37 | 31 | 27 | 30 | 26 | 23 | 24 | 21 | 18 |
| 7   | 56  | 43  | 35  | 30  | 51 | 40 | 33 | 28 | 34 | 28 | 24 | 27 | 23 | 20 | 22 | 19 | 16 |
| 8   | 52  | 39  | 32  | 26  | 47 | 36 | 29 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 14 |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 22 | 28 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 13 |
| 10  | 45  | 33  | 26  | 21  | 41 | 30 | 24 | 19 | 26 | 20 | 17 | 21 | 17 | 14 | 17 | 14 | 12 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7742 | 7742 | 7742 |
| 5°  | 7763 | 7541 | 7554 |
| 10° | 7713 | 7392 | 7371 |
| 15° | 7641 | 7225 | 7164 |
| 20° | 7534 | 7044 | 6964 |
| 25° | 7413 | 6845 | 6747 |
| 30° | 7283 | 6648 | 6527 |
| 35° | 7136 | 6446 | 6330 |
| 40° | 7017 | 6253 | 6127 |
| 45° | 6842 | 6071 | 5947 |
| 50° | 6693 | 5865 | 5757 |
| 55° | 6538 | 5665 | 5539 |
| 60° | 6300 | 5418 | 5333 |
| 65° | 6036 | 5152 | 5085 |
| 70° | 5716 | 4846 | 4799 |
| 75° | 5271 | 4507 | 4527 |
| 80° | 4767 | 4162 | 4242 |
| 85° | 4097 | 3813 | 4012 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6842 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.0   | 1.3       |
| 10°-20°   | 257.7  | 3.8       |
| 20°-30°   | 389.7  | 5.8       |
| 30°-40°   | 471.5  | 7.0       |
| 40°-50°   | 498.4  | 7.4       |
| 50°-60°   | 469.1  | 6.9       |
| 60°-70°   | 389.3  | 5.8       |
| 70°-80°   | 273.2  | 4.0       |
| 80°-90°   | 156.7  | 2.3       |
| 90°-100°  | 174.5  | 2.6       |
| 100°-110° | 316.0  | 4.7       |
| 110°-120° | 467.0  | 6.9       |
| 120°-130° | 581.4  | 8.6       |
| 130°-140° | 635.3  | 9.4       |
| 140°-150° | 615.7  | 9.1       |
| 150°-160° | 516.0  | 7.6       |
| 160°-170° | 343.3  | 5.1       |
| 170°-180° | 120.2  | 1.8       |
| 0°-30°    | 737.4  | 10.9      |
| 0°-40°    | 1208.9 | 17.9      |
| 0°-60°    | 2176.5 | 32.2      |
| 0°-90°    | 2995.6 | 44.3      |
| 90°-120°  | 957.4  | 14.2      |
| 90°-150°  | 2789.9 | 41.2      |
| 90°-180°  | 3769.0 | 55.7      |
| 0°-180°   | 6765.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 949  | 949   | 949  | 949   | 949  |      |
| 5°   | 950  | 947   | 940  | 948   | 947  | 90   |
| 15°  | 911  | 912   | 909  | 919   | 918  | 257  |
| 25°  | 834  | 840   | 843  | 855   | 856  | 384  |
| 35°  | 729  | 742   | 753  | 768   | 771  | 457  |
| 45°  | 608  | 628   | 648  | 667   | 672  | 470  |
| 55°  | 476  | 499   | 530  | 552   | 558  | 424  |
| 65°  | 330  | 364   | 400  | 426   | 435  | 327  |
| 75°  | 183  | 222   | 267  | 297   | 306  | 194  |
| 85°  | 56   | 101   | 149  | 181   | 191  | 59   |
| 90°  | 20   | 73    | 127  | 164   | 174  | 16   |
| 95°  | 73   | 117   | 167  | 199   | 208  | 75   |
| 105° | 239  | 261   | 304  | 334   | 345  | 254  |
| 115° | 435  | 444   | 476  | 499   | 505  | 429  |
| 125° | 628  | 627   | 653  | 671   | 675  | 560  |
| 135° | 807  | 813   | 820  | 835   | 839  | 625  |
| 145° | 979  | 982   | 983  | 988   | 989  | 613  |
| 155° | 1120 | 1120  | 1119 | 1123  | 1119 | 516  |
| 165° | 1219 | 1216  | 1214 | 1220  | 1216 | 344  |
| 175° | 1269 | 1264  | 1263 | 1270  | 1263 | 120  |
| 180° | 1270 | 1270  | 1270 | 1270  | 1270 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 949.4 | 949.4 | 949.4 | 949.4 | 949.4 |
| 2.5°   | 953.7 | 950.5 | 942.0 | 949.4 | 948.4 |
| 5°     | 950.5 | 947.3 | 939.9 | 948.4 | 947.3 |
| 7.5°   | 944.1 | 942.0 | 935.6 | 945.2 | 944.1 |
| 10°    | 935.6 | 934.5 | 929.2 | 938.8 | 937.7 |
| 12.5°  | 923.9 | 923.9 | 920.7 | 929.2 | 929.2 |
| 15°    | 911.2 | 912.2 | 909.0 | 918.6 | 917.5 |
| 17.5°  | 894.1 | 897.3 | 896.3 | 905.8 | 904.8 |
| 20°    | 876.1 | 879.3 | 880.3 | 891.0 | 891.0 |
| 22.5°  | 855.9 | 860.1 | 862.2 | 872.9 | 875.0 |
| 25°    | 833.5 | 839.9 | 843.1 | 854.8 | 855.9 |
| 27.5°  | 809.1 | 818.7 | 822.9 | 833.5 | 834.6 |
| 30°    | 784.6 | 793.1 | 800.6 | 812.3 | 814.4 |
| 32.5°  | 758.1 | 768.7 | 777.2 | 791.0 | 793.1 |
| 35°    | 729.4 | 742.1 | 752.7 | 767.6 | 770.8 |
| 37.5°  | 700.6 | 715.5 | 728.3 | 743.2 | 746.4 |
| 40°    | 673.0 | 686.8 | 701.7 | 717.7 | 721.9 |
| 42.5°  | 641.1 | 657.1 | 675.1 | 693.2 | 696.4 |
| 45°    | 608.1 | 628.3 | 648.5 | 666.6 | 671.9 |
| 47.5°  | 577.3 | 597.5 | 620.9 | 639.0 | 645.4 |
| 50°    | 543.3 | 566.7 | 590.1 | 611.3 | 617.7 |
| 52.5°  | 509.3 | 532.7 | 560.3 | 581.6 | 587.9 |
| 55°    | 476.3 | 498.6 | 530.5 | 551.8 | 558.2 |
| 57.5°  | 439.1 | 466.7 | 497.6 | 523.1 | 528.4 |
| 60°    | 403.0 | 430.6 | 465.7 | 490.1 | 498.6 |
| 62.5°  | 367.9 | 398.7 | 433.8 | 458.2 | 466.7 |
| 65°    | 329.6 | 363.6 | 399.8 | 426.3 | 434.8 |
| 67.5°  | 293.4 | 329.6 | 367.9 | 394.4 | 403.0 |
| 70°    | 256.2 | 292.4 | 332.8 | 361.5 | 368.9 |
| 72.5°  | 220.1 | 257.3 | 300.9 | 328.5 | 337.0 |
| 75°    | 182.9 | 222.2 | 266.9 | 296.6 | 306.2 |
| 77.5°  | 147.8 | 189.2 | 236.0 | 265.8 | 276.4 |
| 80°    | 115.9 | 158.4 | 205.2 | 237.1 | 245.6 |
| 82.5°  | 84.0  | 128.6 | 175.4 | 208.4 | 218.0 |
| 85°    | 56.3  | 101.0 | 148.8 | 180.7 | 191.4 |
| 87.5°  | 35.1  | 78.7  | 125.5 | 156.3 | 165.9 |
| 90°    | 19.9  | 73.3  | 126.9 | 163.6 | 174.1 |
| 92.5°  | 41.4  | 91.5  | 142.1 | 174.8 | 184.4 |
| 95°    | 72.8  | 116.7 | 167.2 | 198.8 | 208.4 |
| 97.5°  | 107.1 | 145.8 | 197.3 | 228.8 | 238.4 |
| 100°   | 149.3 | 180.8 | 231.1 | 261.8 | 269.3 |
| 102.5° | 194.5 | 218.9 | 267.1 | 297.7 | 307.1 |
| 105°   | 238.6 | 260.7 | 304.1 | 333.6 | 345.1 |
| 107.5° | 286.7 | 305.7 | 344.0 | 374.4 | 380.9 |
| 110°   | 334.7 | 351.6 | 387.8 | 410.4 | 421.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 384.7  | 397.5  | 430.7  | 454.1  | 462.6  |
| 115°   | 434.8  | 444.3  | 476.5  | 498.9  | 505.3  |
| 117.5° | 483.0  | 489.4  | 520.3  | 539.6  | 545.2  |
| 120°   | 530.0  | 537.2  | 565.0  | 581.4  | 591.9  |
| 122.5° | 580.1  | 581.1  | 608.8  | 627.2  | 629.7  |
| 125°   | 628.3  | 627.2  | 652.8  | 671.0  | 675.4  |
| 127.5° | 672.5  | 674.3  | 693.7  | 710.8  | 717.2  |
| 130°   | 718.6  | 720.4  | 737.4  | 754.6  | 757.1  |
| 132.5° | 766.7  | 767.6  | 779.4  | 795.5  | 800.8  |
| 135°   | 806.9  | 812.8  | 820.3  | 835.3  | 838.8  |
| 137.5° | 853.1  | 855.0  | 861.2  | 874.2  | 880.5  |
| 140°   | 899.2  | 900.2  | 901.2  | 914.0  | 918.4  |
| 142.5° | 940.5  | 942.5  | 940.4  | 952.1  | 956.3  |
| 145°   | 978.8  | 981.6  | 982.6  | 988.0  | 989.3  |
| 147.5° | 1018.1 | 1021.9 | 1021.0 | 1021.1 | 1024.3 |
| 150°   | 1053.5 | 1056.3 | 1056.3 | 1056.3 | 1055.3 |
| 152.5° | 1085.8 | 1087.8 | 1088.8 | 1091.7 | 1088.8 |
| 155°   | 1120.2 | 1120.2 | 1119.2 | 1123.1 | 1119.2 |
| 157.5° | 1149.7 | 1147.7 | 1147.7 | 1150.7 | 1147.7 |
| 160°   | 1175.2 | 1174.2 | 1173.3 | 1176.2 | 1171.3 |
| 162.5° | 1198.8 | 1195.9 | 1194.9 | 1200.8 | 1195.9 |
| 165°   | 1219.4 | 1216.5 | 1214.5 | 1220.4 | 1216.5 |
| 167.5° | 1236.1 | 1232.2 | 1232.2 | 1238.1 | 1232.2 |
| 170°   | 1249.9 | 1245.0 | 1246.0 | 1251.9 | 1245.0 |
| 172.5° | 1259.7 | 1255.8 | 1255.8 | 1262.7 | 1255.8 |
| 175°   | 1268.6 | 1263.7 | 1262.7 | 1269.6 | 1262.7 |
| 177.5° | 1272.5 | 1267.6 | 1267.6 | 1274.5 | 1266.6 |
| 180°   | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 |

(END OF REPORT)