

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: P1011087

Luminaire Tested: S123DIP-B1000D1195UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1011087  
REPORT IS A COMBINATION OF REPORTS P989117 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B1000D1195UB35-4F0-XX-W2A-D4  
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

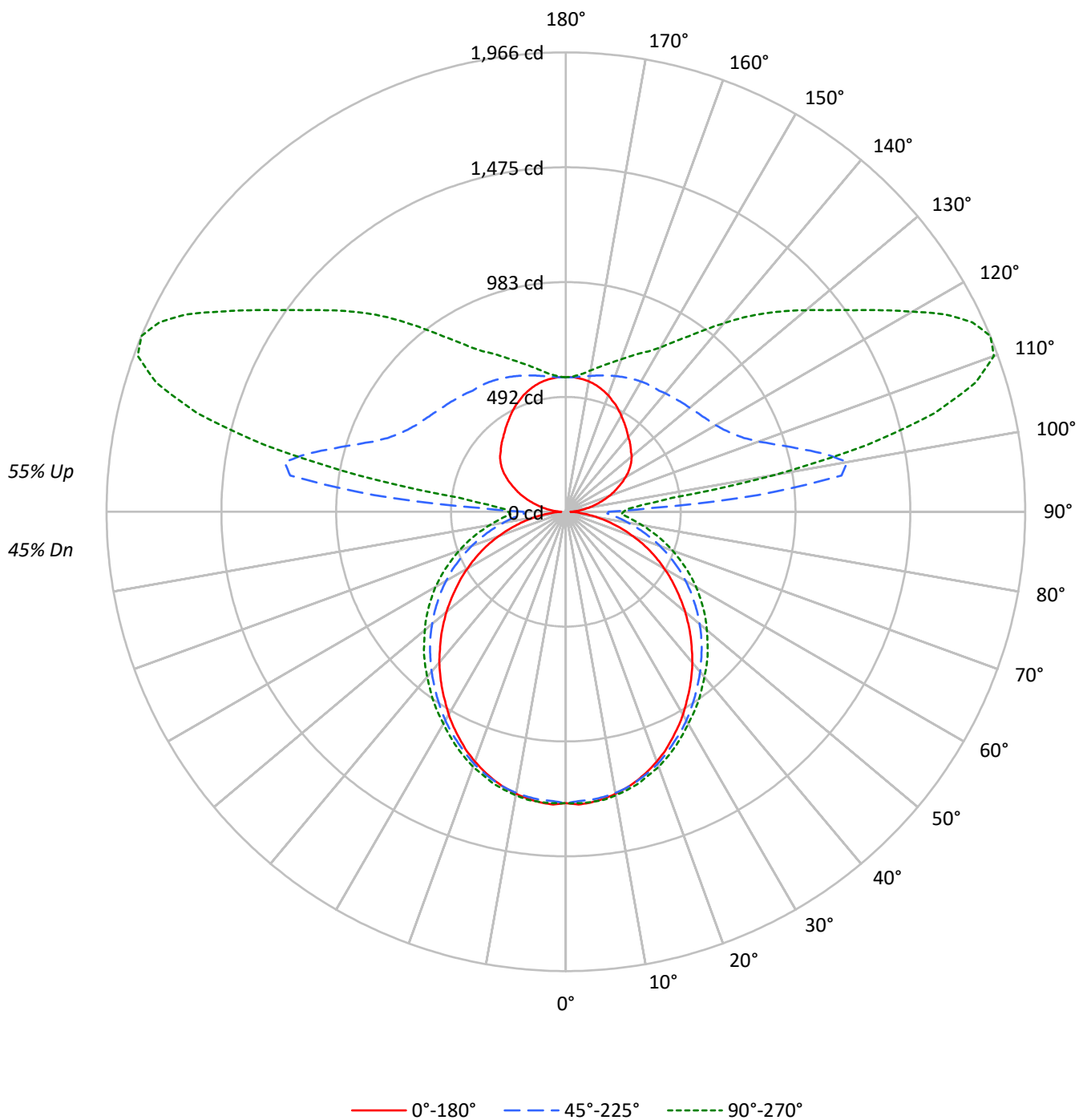
Lumens per Lamp: N/A  
Luminaire Lumens: 8538.1 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 81.8  
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 | 81 | 81 | 81 | 65 | 65 | 65 | 52 | 52 | 52 |
| 1   | 96  | 91  | 87  | 83  | 87 | 83 | 80 | 76 | 69 | 67 | 64 | 56 | 54 | 53 | 44 | 43 | 42 |
| 2   | 87  | 79  | 72  | 67  | 79 | 72 | 67 | 62 | 60 | 56 | 52 | 49 | 46 | 43 | 38 | 36 | 34 |
| 3   | 79  | 69  | 61  | 55  | 72 | 63 | 57 | 51 | 53 | 48 | 44 | 43 | 39 | 36 | 34 | 31 | 29 |
| 4   | 72  | 61  | 53  | 47  | 66 | 56 | 49 | 43 | 47 | 41 | 37 | 38 | 34 | 31 | 30 | 27 | 25 |
| 5   | 66  | 54  | 46  | 40  | 60 | 50 | 42 | 37 | 42 | 36 | 32 | 34 | 30 | 26 | 27 | 24 | 21 |
| 6   | 61  | 48  | 40  | 34  | 55 | 45 | 37 | 32 | 37 | 32 | 27 | 31 | 26 | 23 | 24 | 21 | 19 |
| 7   | 56  | 44  | 35  | 30  | 51 | 40 | 33 | 28 | 34 | 28 | 24 | 28 | 23 | 20 | 22 | 19 | 16 |
| 8   | 52  | 39  | 32  | 26  | 47 | 36 | 29 | 25 | 31 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 15 |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 22 | 28 | 23 | 19 | 23 | 19 | 16 | 19 | 15 | 13 |
| 10  | 45  | 33  | 26  | 21  | 41 | 30 | 24 | 20 | 26 | 21 | 17 | 21 | 17 | 14 | 17 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13426 | 13426 | 13426 |
| 5°  | 13463 | 13032 | 13021 |
| 10° | 13337 | 12679 | 12583 |
| 15° | 13160 | 12289 | 12116 |
| 20° | 12910 | 11855 | 11616 |
| 25° | 12602 | 11366 | 11098 |
| 30° | 12287 | 10923 | 10578 |
| 35° | 11931 | 10459 | 10154 |
| 40° | 11594 | 10033 | 9706  |
| 45° | 11220 | 9621  | 9337  |
| 50° | 10848 | 9214  | 8937  |
| 55° | 10439 | 8796  | 8568  |
| 60° | 10037 | 8369  | 8190  |
| 65° | 9624  | 7913  | 7749  |
| 70° | 9003  | 7402  | 7293  |
| 75° | 8217  | 6818  | 6823  |
| 80° | 7302  | 6228  | 6287  |
| 85° | 6397  | 5750  | 5902  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11220 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 118.3  | 1.4       |
| 10°-20°   | 337.3  | 4.0       |
| 20°-30°   | 504.4  | 5.9       |
| 30°-40°   | 602.3  | 7.1       |
| 40°-50°   | 630.1  | 7.4       |
| 50°-60°   | 591.3  | 6.9       |
| 60°-70°   | 493.9  | 5.8       |
| 70°-80°   | 353.2  | 4.1       |
| 80°-90°   | 213.4  | 2.5       |
| 90°-100°  | 459.4  | 5.4       |
| 100°-110° | 1012.0 | 11.9      |
| 110°-120° | 956.9  | 11.2      |
| 120°-130° | 747.3  | 8.8       |
| 130°-140° | 577.3  | 6.8       |
| 140°-150° | 421.8  | 4.9       |
| 150°-160° | 291.9  | 3.4       |
| 160°-170° | 171.5  | 2.0       |
| 170°-180° | 55.8   | 0.7       |
| 0°-30°    | 960.1  | 11.2      |
| 0°-40°    | 1562.3 | 18.3      |
| 0°-60°    | 2783.8 | 32.6      |
| 0°-90°    | 3844.2 | 45.0      |
| 90°-120°  | 2428.3 | 28.4      |
| 90°-150°  | 4174.8 | 48.9      |
| 90°-180°  | 4694.0 | 55.0      |
| 0°-180°   | 8538.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1247 | 1247  | 1247 | 1247  | 1247 |      |
| 5°   | 1249 | 1246  | 1238 | 1249  | 1247 | 118  |
| 15°  | 1189 | 1193  | 1192 | 1205  | 1204 | 335  |
| 25°  | 1073 | 1087  | 1091 | 1109  | 1109 | 495  |
| 35°  | 924  | 946   | 963  | 984   | 989  | 578  |
| 45°  | 756  | 788   | 822  | 848   | 859  | 583  |
| 55°  | 576  | 621   | 670  | 706   | 717  | 516  |
| 65°  | 398  | 451   | 511  | 552   | 565  | 394  |
| 75°  | 216  | 280   | 348  | 393   | 409  | 231  |
| 85°  | 67   | 134   | 206  | 253   | 266  | 69   |
| 90°  | 20   | 98    | 183  | 232   | 247  | 16   |
| 95°  | 54   | 197   | 826  | 378   | 326  | 54   |
| 105° | 146  | 243   | 1039 | 1779  | 1635 | 155  |
| 115° | 246  | 321   | 789  | 1677  | 1919 | 244  |
| 125° | 336  | 396   | 713  | 1285  | 1504 | 299  |
| 135° | 392  | 466   | 676  | 1040  | 1201 | 303  |
| 145° | 446  | 509   | 652  | 830   | 918  | 279  |
| 155° | 505  | 545   | 631  | 717   | 747  | 232  |
| 165° | 552  | 567   | 604  | 641   | 652  | 155  |
| 175° | 575  | 575   | 580  | 588   | 586  | 55   |
| 180° | 576  | 576   | 576  | 576   | 576  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1247.3 | 1247.3 | 1247.3 | 1247.3 | 1247.3 |
| 2.5°   | 1254.1 | 1250.0 | 1239.2 | 1250.0 | 1248.7 |
| 5°     | 1248.7 | 1246.0 | 1237.8 | 1248.7 | 1247.3 |
| 7.5°   | 1239.2 | 1239.2 | 1231.0 | 1244.6 | 1243.3 |
| 10°    | 1225.6 | 1228.3 | 1221.5 | 1235.1 | 1232.4 |
| 12.5°  | 1209.3 | 1213.4 | 1209.3 | 1221.5 | 1218.8 |
| 15°    | 1188.9 | 1193.0 | 1191.6 | 1205.2 | 1203.8 |
| 17.5°  | 1164.4 | 1172.6 | 1171.2 | 1183.5 | 1180.7 |
| 20°    | 1137.3 | 1145.4 | 1148.1 | 1160.4 | 1161.7 |
| 22.5°  | 1108.7 | 1116.9 | 1121.0 | 1137.3 | 1135.9 |
| 25°    | 1073.4 | 1087.0 | 1091.1 | 1108.7 | 1108.7 |
| 27.5°  | 1039.4 | 1054.4 | 1062.5 | 1077.5 | 1078.8 |
| 30°    | 1002.8 | 1020.4 | 1031.3 | 1047.6 | 1047.6 |
| 32.5°  | 962.0  | 982.4  | 997.3  | 1015.0 | 1019.1 |
| 35°    | 923.9  | 945.7  | 963.4  | 983.7  | 989.2  |
| 37.5°  | 883.2  | 907.6  | 928.0  | 951.1  | 955.2  |
| 40°    | 842.4  | 866.9  | 894.1  | 917.2  | 922.6  |
| 42.5°  | 797.6  | 828.8  | 857.4  | 883.2  | 891.3  |
| 45°    | 755.5  | 788.1  | 822.0  | 847.9  | 858.7  |
| 47.5°  | 710.6  | 747.3  | 785.4  | 813.9  | 822.0  |
| 50°    | 667.1  | 705.2  | 747.3  | 778.6  | 788.1  |
| 52.5°  | 620.9  | 661.7  | 709.3  | 741.9  | 754.1  |
| 55°    | 576.1  | 620.9  | 669.9  | 706.5  | 717.4  |
| 57.5°  | 532.6  | 578.8  | 631.8  | 668.5  | 680.7  |
| 60°    | 486.4  | 535.3  | 591.1  | 629.1  | 644.0  |
| 62.5°  | 443.0  | 493.2  | 553.0  | 591.1  | 604.6  |
| 65°    | 398.1  | 451.1  | 510.9  | 551.7  | 565.2  |
| 67.5°  | 353.3  | 409.0  | 468.8  | 513.6  | 524.5  |
| 70°    | 305.7  | 364.1  | 429.4  | 472.8  | 486.4  |
| 72.5°  | 262.2  | 320.7  | 388.6  | 433.4  | 447.0  |
| 75°    | 216.0  | 279.9  | 347.8  | 392.7  | 409.0  |
| 77.5°  | 176.6  | 240.5  | 308.4  | 356.0  | 368.2  |
| 80°    | 134.5  | 201.1  | 271.7  | 317.9  | 331.5  |
| 82.5°  | 97.8   | 165.8  | 237.8  | 284.0  | 297.6  |
| 85°    | 66.6   | 134.5  | 206.5  | 252.7  | 266.3  |
| 87.5°  | 40.8   | 108.7  | 178.0  | 224.2  | 237.8  |
| 90°    | 20.0   | 98.2   | 182.7  | 232.4  | 247.1  |
| 92.5°  | 33.8   | 144.7  | 359.6  | 261.6  | 261.5  |
| 95°    | 54.5   | 196.8  | 825.9  | 378.3  | 325.5  |
| 97.5°  | 76.6   | 210.0  | 1189.8 | 674.4  | 458.2  |
| 100°   | 98.5   | 218.4  | 1222.4 | 1218.7 | 902.3  |
| 102.5° | 121.7  | 229.0  | 1138.5 | 1568.9 | 1319.6 |
| 105°   | 146.2  | 243.4  | 1039.4 | 1779.4 | 1635.4 |
| 107.5° | 170.4  | 261.3  | 950.8  | 1866.0 | 1838.1 |
| 110°   | 197.1  | 279.8  | 877.6  | 1860.8 | 1949.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 222.7 | 299.4 | 825.0 | 1785.4 | 1966.1 |
| 115°   | 245.8 | 321.0 | 789.1 | 1677.0 | 1919.3 |
| 117.5° | 270.3 | 340.1 | 761.2 | 1561.6 | 1829.5 |
| 120°   | 294.6 | 359.1 | 741.5 | 1452.0 | 1712.7 |
| 122.5° | 316.7 | 378.4 | 726.6 | 1364.0 | 1604.4 |
| 125°   | 336.4 | 396.5 | 712.8 | 1284.6 | 1504.0 |
| 127.5° | 352.7 | 416.0 | 702.5 | 1218.2 | 1416.6 |
| 130°   | 367.9 | 434.7 | 692.2 | 1156.4 | 1341.9 |
| 132.5° | 378.2 | 451.6 | 684.2 | 1098.2 | 1270.9 |
| 135°   | 392.1 | 466.0 | 676.3 | 1039.5 | 1200.8 |
| 137.5° | 405.0 | 478.9 | 668.5 | 982.4  | 1128.5 |
| 140°   | 416.5 | 490.6 | 661.9 | 927.7  | 1054.0 |
| 142.5° | 430.5 | 499.6 | 654.1 | 875.9  | 983.0  |
| 145°   | 445.7 | 509.0 | 651.8 | 830.0  | 917.6  |
| 147.5° | 459.4 | 518.8 | 648.3 | 793.0  | 861.9  |
| 150°   | 474.6 | 527.0 | 643.6 | 762.0  | 813.1  |
| 152.5° | 489.7 | 535.8 | 637.8 | 738.6  | 775.4  |
| 155°   | 504.9 | 544.6 | 630.8 | 717.1  | 747.4  |
| 157.5° | 516.5 | 552.1 | 625.0 | 696.1  | 720.6  |
| 160°   | 530.5 | 558.6 | 618.0 | 676.9  | 694.9  |
| 162.5° | 541.0 | 563.2 | 611.0 | 658.8  | 671.6  |
| 165°   | 551.5 | 567.2 | 604.0 | 640.7  | 651.8  |
| 167.5° | 559.7 | 570.8 | 597.0 | 625.0  | 632.0  |
| 170°   | 566.7 | 572.5 | 590.0 | 611.0  | 614.5  |
| 172.5° | 571.3 | 574.2 | 584.2 | 598.8  | 598.2  |
| 175°   | 574.8 | 575.4 | 579.5 | 587.7  | 586.5  |
| 177.5° | 577.2 | 576.0 | 576.0 | 580.7  | 578.3  |
| 180°   | 576.0 | 576.0 | 576.0 | 576.0  | 576.0  |

(END OF REPORT)