

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: P1011515

Luminaire Tested: S123DIP-B340D1195UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1011515  
REPORT IS A COMBINATION OF REPORTS P989707 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B340D1195UB30-4F0-XX-W2A-D1  
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

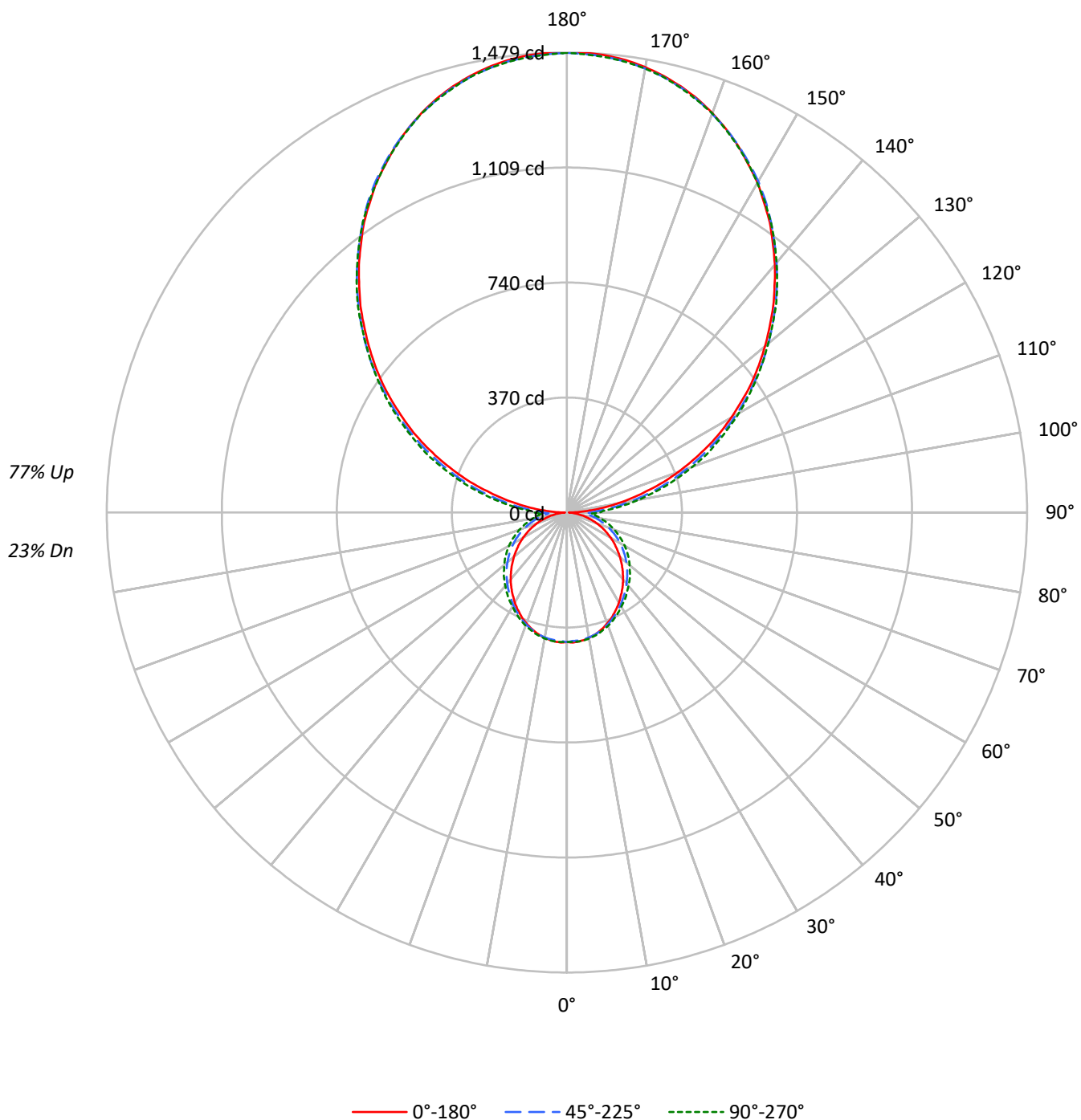
Lumens per Lamp: N/A  
Luminaire Lumens: 5498.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 48  
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   | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 69 | 69 | 69 | 49 | 49 | 49 | 32 | 32 | 32 |
| 1   | 91  | 87  | 83  | 79  | 81 | 77 | 74 | 71 | 59 | 57 | 55 | 42 | 41 | 40 | 27 | 26 | 26 |
| 2   | 83  | 76  | 70  | 64  | 73 | 67 | 62 | 58 | 51 | 48 | 45 | 37 | 35 | 33 | 24 | 22 | 21 |
| 3   | 75  | 66  | 59  | 53  | 67 | 59 | 53 | 48 | 45 | 41 | 38 | 32 | 30 | 28 | 21 | 19 | 18 |
| 4   | 69  | 58  | 51  | 45  | 61 | 52 | 45 | 40 | 40 | 35 | 32 | 29 | 26 | 23 | 18 | 17 | 15 |
| 5   | 63  | 52  | 44  | 38  | 56 | 46 | 39 | 34 | 36 | 31 | 27 | 26 | 23 | 20 | 16 | 15 | 13 |
| 6   | 58  | 46  | 38  | 33  | 51 | 41 | 34 | 30 | 32 | 27 | 23 | 23 | 20 | 17 | 15 | 13 | 11 |
| 7   | 53  | 41  | 34  | 28  | 47 | 37 | 30 | 26 | 29 | 24 | 20 | 21 | 18 | 15 | 14 | 12 | 10 |
| 8   | 49  | 37  | 30  | 25  | 44 | 34 | 27 | 23 | 26 | 21 | 18 | 19 | 16 | 13 | 12 | 10 | 9  |
| 9   | 46  | 34  | 27  | 22  | 41 | 30 | 24 | 20 | 24 | 19 | 16 | 17 | 14 | 12 | 11 | 9  | 8  |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 17 | 14 | 16 | 13 | 11 | 11 | 9  | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4481 | 4481 | 4481 |
| 5°  | 4493 | 4349 | 4346 |
| 10° | 4451 | 4232 | 4199 |
| 15° | 4392 | 4102 | 4044 |
| 20° | 4308 | 3957 | 3877 |
| 25° | 4205 | 3793 | 3704 |
| 30° | 4101 | 3646 | 3530 |
| 35° | 3981 | 3490 | 3389 |
| 40° | 3869 | 3349 | 3239 |
| 45° | 3744 | 3211 | 3116 |
| 50° | 3620 | 3075 | 2982 |
| 55° | 3484 | 2936 | 2859 |
| 60° | 3349 | 2793 | 2733 |
| 65° | 3213 | 2641 | 2586 |
| 70° | 3004 | 2470 | 2433 |
| 75° | 2743 | 2276 | 2277 |
| 80° | 2438 | 2079 | 2098 |
| 85° | 2132 | 1919 | 1970 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3744 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.5   | 0.7       |
| 10°-20°   | 112.6  | 2.0       |
| 20°-30°   | 168.3  | 3.1       |
| 30°-40°   | 201.0  | 3.7       |
| 40°-50°   | 210.3  | 3.8       |
| 50°-60°   | 197.3  | 3.6       |
| 60°-70°   | 164.8  | 3.0       |
| 70°-80°   | 117.9  | 2.1       |
| 80°-90°   | 73.3   | 1.3       |
| 90°-100°  | 139.2  | 2.5       |
| 100°-110° | 320.4  | 5.8       |
| 110°-120° | 511.9  | 9.3       |
| 120°-130° | 657.4  | 12.0      |
| 130°-140° | 730.6  | 13.3      |
| 140°-150° | 714.0  | 13.0      |
| 150°-160° | 600.1  | 10.9      |
| 160°-170° | 399.5  | 7.3       |
| 170°-180° | 139.9  | 2.5       |
| 0°-30°    | 320.4  | 5.8       |
| 0°-40°    | 521.4  | 9.5       |
| 0°-60°    | 929.0  | 16.9      |
| 0°-90°    | 1285.0 | 23.4      |
| 90°-120°  | 971.6  | 17.7      |
| 90°-150°  | 3073.5 | 55.9      |
| 90°-180°  | 4213.0 | 76.6      |
| 0°-180°   | 5498.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 416  | 416   | 416  | 416   | 416  |      |
| 5°   | 417  | 416   | 413  | 417   | 416  | 40   |
| 15°  | 397  | 398   | 398  | 402   | 402  | 112  |
| 25°  | 358  | 363   | 364  | 370   | 370  | 165  |
| 35°  | 308  | 316   | 322  | 328   | 330  | 193  |
| 45°  | 252  | 263   | 274  | 283   | 287  | 194  |
| 55°  | 192  | 207   | 224  | 236   | 239  | 172  |
| 65°  | 133  | 150   | 170  | 184   | 189  | 131  |
| 75°  | 72   | 93    | 116  | 131   | 136  | 77   |
| 85°  | 22   | 45    | 69   | 84    | 89   | 23   |
| 90°  | 7    | 41    | 79   | 99    | 106  | 9    |
| 95°  | 74   | 99    | 131  | 150   | 154  | 79   |
| 105° | 265  | 278   | 308  | 321   | 327  | 283  |
| 115° | 496  | 505   | 519  | 531   | 533  | 491  |
| 125° | 724  | 727   | 738  | 743   | 741  | 646  |
| 135° | 938  | 945   | 948  | 952   | 952  | 723  |
| 145° | 1137 | 1139  | 1143 | 1145  | 1142 | 710  |
| 155° | 1302 | 1302  | 1303 | 1308  | 1299 | 599  |
| 165° | 1418 | 1414  | 1414 | 1421  | 1413 | 400  |
| 175° | 1475 | 1470  | 1470 | 1477  | 1469 | 140  |
| 180° | 1478 | 1478  | 1478 | 1478  | 1478 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 416.3 | 416.3 | 416.3 | 416.3 | 416.3 |
| 2.5°   | 418.5 | 417.2 | 413.6 | 417.2 | 416.7 |
| 5°     | 416.7 | 415.8 | 413.1 | 416.7 | 416.3 |
| 7.5°   | 413.6 | 413.6 | 410.8 | 415.4 | 414.9 |
| 10°    | 409.0 | 409.9 | 407.7 | 412.2 | 411.3 |
| 12.5°  | 403.6 | 404.9 | 403.6 | 407.7 | 406.7 |
| 15°    | 396.8 | 398.1 | 397.7 | 402.2 | 401.8 |
| 17.5°  | 388.6 | 391.3 | 390.9 | 395.0 | 394.1 |
| 20°    | 379.5 | 382.3 | 383.2 | 387.3 | 387.7 |
| 22.5°  | 370.0 | 372.7 | 374.1 | 379.5 | 379.1 |
| 25°    | 358.2 | 362.8 | 364.1 | 370.0 | 370.0 |
| 27.5°  | 346.9 | 351.9 | 354.6 | 359.6 | 360.0 |
| 30°    | 334.7 | 340.5 | 344.2 | 349.6 | 349.6 |
| 32.5°  | 321.0 | 327.8 | 332.8 | 338.7 | 340.1 |
| 35°    | 308.3 | 315.6 | 321.5 | 328.3 | 330.1 |
| 37.5°  | 294.7 | 302.9 | 309.7 | 317.4 | 318.8 |
| 40°    | 281.1 | 289.3 | 298.4 | 306.1 | 307.9 |
| 42.5°  | 266.2 | 276.6 | 286.1 | 294.7 | 297.5 |
| 45°    | 252.1 | 263.0 | 274.3 | 283.0 | 286.6 |
| 47.5°  | 237.2 | 249.4 | 262.1 | 271.6 | 274.3 |
| 50°    | 222.6 | 235.3 | 249.4 | 259.8 | 263.0 |
| 52.5°  | 207.2 | 220.8 | 236.7 | 247.6 | 251.7 |
| 55°    | 192.3 | 207.2 | 223.6 | 235.8 | 239.4 |
| 57.5°  | 177.8 | 193.2 | 210.9 | 223.1 | 227.2 |
| 60°    | 162.3 | 178.7 | 197.3 | 209.9 | 214.9 |
| 62.5°  | 147.8 | 164.6 | 184.6 | 197.3 | 201.8 |
| 65°    | 132.9 | 150.5 | 170.5 | 184.1 | 188.6 |
| 67.5°  | 117.9 | 136.5 | 156.4 | 171.4 | 175.0 |
| 70°    | 102.0 | 121.5 | 143.3 | 157.8 | 162.3 |
| 72.5°  | 87.5  | 107.0 | 129.7 | 144.7 | 149.2 |
| 75°    | 72.1  | 93.4  | 116.1 | 131.0 | 136.5 |
| 77.5°  | 58.9  | 80.3  | 102.9 | 118.8 | 122.9 |
| 80°    | 44.9  | 67.1  | 90.7  | 106.1 | 110.6 |
| 82.5°  | 32.6  | 55.3  | 79.4  | 94.8  | 99.3  |
| 85°    | 22.2  | 44.9  | 68.9  | 84.3  | 88.9  |
| 87.5°  | 13.6  | 36.3  | 59.4  | 74.8  | 79.4  |
| 90°    | 7.1   | 40.9  | 79.1  | 99.2  | 106.0 |
| 92.5°  | 40.2  | 66.7  | 96.4  | 114.9 | 116.6 |
| 95°    | 73.5  | 99.3  | 130.8 | 149.5 | 154.1 |
| 97.5°  | 117.1 | 139.3 | 167.6 | 187.0 | 190.4 |
| 100°   | 162.0 | 183.5 | 210.2 | 226.8 | 233.6 |
| 102.5° | 213.8 | 230.0 | 258.5 | 274.7 | 278.1 |
| 105°   | 264.9 | 278.1 | 308.0 | 320.7 | 327.2 |
| 107.5° | 324.9 | 335.5 | 358.8 | 374.4 | 377.4 |
| 110°   | 380.1 | 390.6 | 411.0 | 427.5 | 428.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 438.2  | 445.7  | 462.9  | 480.0  | 484.1  |
| 115°   | 495.8  | 504.7  | 518.7  | 530.7  | 533.2  |
| 117.5° | 555.0  | 559.8  | 572.9  | 583.8  | 583.9  |
| 120°   | 609.1  | 618.4  | 627.5  | 636.8  | 637.6  |
| 122.5° | 666.0  | 671.6  | 683.3  | 689.9  | 689.5  |
| 125°   | 723.7  | 727.2  | 737.9  | 742.8  | 741.3  |
| 127.5° | 777.1  | 783.6  | 792.5  | 794.7  | 793.2  |
| 130°   | 830.5  | 839.3  | 844.9  | 848.9  | 843.4  |
| 132.5° | 883.4  | 892.7  | 897.2  | 899.6  | 896.9  |
| 135°   | 938.0  | 944.6  | 948.3  | 951.9  | 951.8  |
| 137.5° | 987.9  | 993.3  | 999.9  | 1001.4 | 1000.2 |
| 140°   | 1039.8 | 1045.6 | 1048.0 | 1053.7 | 1047.9 |
| 142.5° | 1087.4 | 1092.7 | 1095.0 | 1099.8 | 1096.3 |
| 145°   | 1137.3 | 1139.1 | 1142.6 | 1145.1 | 1142.2 |
| 147.5° | 1179.8 | 1184.4 | 1187.9 | 1189.3 | 1184.1 |
| 150°   | 1225.1 | 1227.4 | 1229.7 | 1229.7 | 1223.7 |
| 152.5° | 1262.2 | 1265.7 | 1266.9 | 1269.2 | 1263.4 |
| 155°   | 1301.7 | 1301.7 | 1302.9 | 1307.5 | 1299.4 |
| 157.5° | 1335.4 | 1334.2 | 1335.4 | 1340.0 | 1333.1 |
| 160°   | 1366.7 | 1364.4 | 1364.4 | 1370.2 | 1365.6 |
| 162.5° | 1394.6 | 1391.1 | 1392.3 | 1398.1 | 1390.0 |
| 165°   | 1417.8 | 1414.4 | 1414.4 | 1421.3 | 1413.2 |
| 167.5° | 1437.6 | 1432.9 | 1434.1 | 1441.1 | 1434.1 |
| 170°   | 1453.8 | 1449.2 | 1449.2 | 1457.3 | 1449.2 |
| 172.5° | 1466.6 | 1462.0 | 1462.0 | 1468.9 | 1460.8 |
| 175°   | 1474.7 | 1470.1 | 1470.1 | 1477.1 | 1468.9 |
| 177.5° | 1479.4 | 1474.7 | 1474.7 | 1481.7 | 1473.6 |
| 180°   | 1478.2 | 1478.2 | 1478.2 | 1478.2 | 1478.2 |

(END OF REPORT)