

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: P1011213

Luminaire Tested: S123DIP-B1000D805UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1011213  
REPORT IS A COMBINATION OF REPORTS P989291 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B1000D805UB30-4F0-XX-W2A-F4  
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

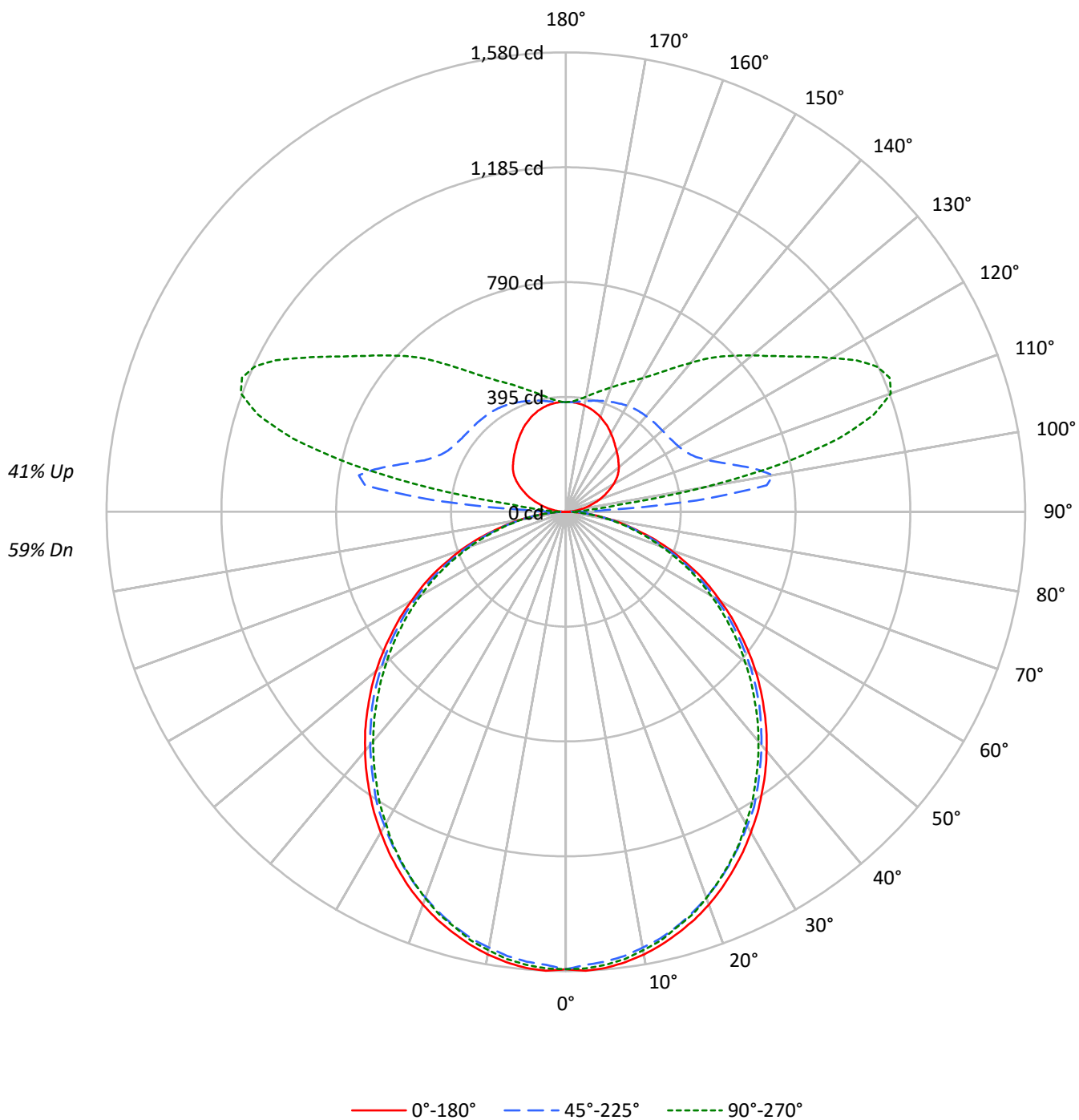
Lumens per Lamp: N/A  
Luminaire Lumens: 6940.6 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 67.9  
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   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 |
| 1   | 100 | 95  | 91  | 88  | 93  | 89  | 86  | 83  | 77 | 75 | 73 | 67 | 65 | 63 | 57 | 56 | 54 |
| 2   | 91  | 83  | 77  | 72  | 84  | 78  | 72  | 68  | 68 | 64 | 60 | 59 | 55 | 53 | 50 | 48 | 46 |
| 3   | 83  | 73  | 66  | 60  | 77  | 69  | 62  | 57  | 60 | 55 | 50 | 52 | 48 | 45 | 44 | 41 | 39 |
| 4   | 76  | 65  | 57  | 51  | 70  | 61  | 54  | 48  | 53 | 47 | 43 | 46 | 42 | 38 | 40 | 36 | 33 |
| 5   | 70  | 58  | 49  | 43  | 65  | 54  | 47  | 41  | 48 | 42 | 37 | 41 | 37 | 33 | 36 | 32 | 29 |
| 6   | 64  | 52  | 44  | 38  | 60  | 49  | 41  | 36  | 43 | 37 | 32 | 37 | 33 | 29 | 32 | 29 | 26 |
| 7   | 59  | 47  | 39  | 33  | 55  | 44  | 37  | 32  | 39 | 33 | 29 | 34 | 29 | 26 | 30 | 26 | 23 |
| 8   | 55  | 43  | 35  | 29  | 51  | 40  | 33  | 28  | 36 | 30 | 25 | 31 | 26 | 23 | 27 | 23 | 20 |
| 9   | 51  | 39  | 31  | 26  | 48  | 37  | 30  | 25  | 33 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 18 |
| 10  | 48  | 36  | 28  | 24  | 45  | 34  | 27  | 23  | 30 | 24 | 21 | 27 | 22 | 19 | 23 | 20 | 17 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16937 | 16937 | 16937 |
| 5°  | 16979 | 16352 | 16328 |
| 10° | 16828 | 15798 | 15636 |
| 15° | 16593 | 15222 | 14883 |
| 20° | 16326 | 14585 | 14137 |
| 25° | 15978 | 13910 | 13339 |
| 30° | 15598 | 13212 | 12499 |
| 35° | 15200 | 12498 | 11666 |
| 40° | 14784 | 11751 | 10845 |
| 45° | 14325 | 11021 | 9988  |
| 50° | 13859 | 10209 | 9129  |
| 55° | 13262 | 9362  | 8257  |
| 60° | 12647 | 8428  | 7329  |
| 65° | 12067 | 7417  | 6363  |
| 70° | 11235 | 6297  | 5234  |
| 75° | 10035 | 4987  | 4062  |
| 80° | 8665  | 3505  | 2873  |
| 85° | 6762  | 1882  | 1438  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14325 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 148.3  | 2.1       |
| 10°-20°   | 418.8  | 6.0       |
| 20°-30°   | 618.6  | 8.9       |
| 30°-40°   | 722.5  | 10.4      |
| 40°-50°   | 726.3  | 10.5      |
| 50°-60°   | 638.0  | 9.2       |
| 60°-70°   | 475.2  | 6.8       |
| 70°-80°   | 270.4  | 3.9       |
| 80°-90°   | 79.0   | 1.1       |
| 90°-100°  | 214.3  | 3.1       |
| 100°-110° | 599.0  | 8.6       |
| 110°-120° | 584.1  | 8.4       |
| 120°-130° | 465.1  | 6.7       |
| 130°-140° | 367.1  | 5.3       |
| 140°-150° | 273.9  | 3.9       |
| 150°-160° | 191.1  | 2.8       |
| 160°-170° | 112.3  | 1.6       |
| 170°-180° | 36.5   | 0.5       |
| 0°-30°    | 1185.8 | 17.1      |
| 0°-40°    | 1908.2 | 27.5      |
| 0°-60°    | 3272.5 | 47.2      |
| 0°-90°    | 4097.1 | 59.0      |
| 90°-120°  | 1397.5 | 20.1      |
| 90°-150°  | 2503.6 | 36.1      |
| 90°-180°  | 2844.0 | 41.0      |
| 0°-180°   | 6940.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1574 | 1574  | 1574 | 1574  | 1574 |      |
| 5°   | 1575 | 1568  | 1553 | 1567  | 1564 | 149  |
| 15°  | 1499 | 1494  | 1476 | 1487  | 1479 | 423  |
| 25°  | 1361 | 1353  | 1335 | 1337  | 1333 | 627  |
| 35°  | 1177 | 1169  | 1151 | 1143  | 1136 | 736  |
| 45°  | 965  | 959   | 942  | 925   | 919  | 745  |
| 55°  | 732  | 731   | 713  | 698   | 691  | 656  |
| 65°  | 499  | 492   | 479  | 468   | 464  | 493  |
| 75°  | 264  | 258   | 254  | 248   | 244  | 282  |
| 85°  | 70   | 68    | 68   | 65    | 65   | 75   |
| 90°  | 2    | 9     | 19   | 21    | 22   | 7    |
| 95°  | 26   | 84    | 453  | 132   | 89   | 28   |
| 105° | 89   | 131   | 614  | 1073  | 971  | 94   |
| 115° | 156  | 195   | 470  | 1030  | 1181 | 155  |
| 125° | 218  | 257   | 438  | 794   | 931  | 193  |
| 135° | 255  | 304   | 432  | 654   | 755  | 197  |
| 145° | 291  | 333   | 427  | 536   | 590  | 182  |
| 155° | 331  | 356   | 413  | 470   | 489  | 152  |
| 165° | 361  | 371   | 396  | 420   | 427  | 102  |
| 175° | 376  | 377   | 379  | 385   | 384  | 36   |
| 180° | 377  | 377   | 377  | 377   | 377  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1573.5 | 1573.5 | 1573.5 | 1573.5 | 1573.5 |
| 2.5°   | 1580.2 | 1574.8 | 1559.9 | 1573.5 | 1572.1 |
| 5°     | 1574.8 | 1568.0 | 1553.2 | 1566.7 | 1564.0 |
| 7.5°   | 1562.6 | 1555.9 | 1541.0 | 1553.2 | 1551.8 |
| 10°    | 1546.4 | 1539.6 | 1522.0 | 1534.2 | 1531.5 |
| 12.5°  | 1524.7 | 1519.3 | 1503.1 | 1511.2 | 1509.9 |
| 15°    | 1499.0 | 1493.6 | 1476.0 | 1486.9 | 1478.7 |
| 17.5°  | 1470.6 | 1463.9 | 1446.3 | 1454.4 | 1451.7 |
| 20°    | 1438.2 | 1430.0 | 1412.5 | 1417.9 | 1413.8 |
| 22.5°  | 1401.6 | 1393.5 | 1375.9 | 1380.0 | 1374.6 |
| 25°    | 1361.0 | 1352.9 | 1335.3 | 1336.7 | 1332.6 |
| 27.5°  | 1319.1 | 1311.0 | 1292.0 | 1293.4 | 1289.3 |
| 30°    | 1273.1 | 1266.3 | 1247.4 | 1247.4 | 1237.9 |
| 32.5°  | 1227.1 | 1217.6 | 1204.1 | 1194.6 | 1190.6 |
| 35°    | 1177.0 | 1168.9 | 1151.3 | 1143.2 | 1136.5 |
| 37.5°  | 1127.0 | 1116.2 | 1098.6 | 1089.1 | 1085.0 |
| 40°    | 1074.2 | 1066.1 | 1047.2 | 1036.3 | 1030.9 |
| 42.5°  | 1021.5 | 1012.0 | 993.0  | 982.2  | 976.8  |
| 45°    | 964.6  | 959.2  | 941.6  | 925.4  | 918.6  |
| 47.5°  | 909.2  | 901.0  | 884.8  | 868.6  | 863.2  |
| 50°    | 852.3  | 845.6  | 828.0  | 813.1  | 805.0  |
| 52.5°  | 792.8  | 788.8  | 769.8  | 757.6  | 749.5  |
| 55°    | 731.9  | 730.6  | 713.0  | 698.1  | 691.3  |
| 57.5°  | 675.1  | 669.7  | 656.2  | 642.6  | 634.5  |
| 60°    | 612.9  | 611.5  | 595.3  | 583.1  | 576.3  |
| 62.5°  | 557.4  | 553.3  | 537.1  | 524.9  | 520.9  |
| 65°    | 499.2  | 492.5  | 478.9  | 468.1  | 464.1  |
| 67.5°  | 437.0  | 431.6  | 420.8  | 411.3  | 405.9  |
| 70°    | 381.5  | 373.4  | 365.3  | 355.8  | 349.1  |
| 72.5°  | 323.3  | 317.9  | 308.5  | 300.3  | 297.6  |
| 75°    | 263.8  | 258.4  | 254.4  | 247.6  | 243.5  |
| 77.5°  | 211.1  | 208.4  | 202.9  | 197.5  | 197.5  |
| 80°    | 159.6  | 155.6  | 152.9  | 151.5  | 151.5  |
| 82.5°  | 109.6  | 109.6  | 109.6  | 106.9  | 105.5  |
| 85°    | 70.4   | 67.6   | 67.6   | 64.9   | 64.9   |
| 87.5°  | 35.2   | 31.1   | 29.8   | 28.4   | 28.4   |
| 90°    | 1.5    | 9.2    | 19.1   | 21.4   | 22.1   |
| 92.5°  | 11.5   | 45.8   | 142.0  | 48.5   | 40.5   |
| 95°    | 26.0   | 84.4   | 452.7  | 132.0  | 88.6   |
| 97.5°  | 41.2   | 96.6   | 696.3  | 332.1  | 181.7  |
| 100°   | 56.5   | 106.5  | 723.0  | 694.7  | 478.7  |
| 102.5° | 72.5   | 118.0  | 673.4  | 930.3  | 758.1  |
| 105°   | 88.6   | 131.0  | 613.8  | 1073.4 | 971.1  |
| 107.5° | 105.4  | 146.2  | 561.1  | 1136.4 | 1110.1 |
| 110°   | 123.7  | 161.8  | 517.6  | 1138.3 | 1189.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 140.5 | 178.3 | 488.6 | 1095.2 | 1205.5 |
| 115°   | 156.5 | 195.1 | 469.5 | 1029.5 | 1181.1 |
| 117.5° | 172.5 | 211.1 | 456.5 | 959.2  | 1127.6 |
| 120°   | 189.3 | 227.2 | 448.1 | 892.8  | 1057.4 |
| 122.5° | 203.8 | 242.4 | 442.8 | 840.6  | 991.7  |
| 125°   | 217.6 | 256.9 | 438.2 | 794.0  | 931.4  |
| 127.5° | 228.3 | 270.6 | 435.9 | 755.8  | 879.5  |
| 130°   | 238.2 | 282.9 | 433.6 | 720.7  | 836.7  |
| 132.5° | 245.8 | 294.0 | 432.9 | 687.8  | 794.7  |
| 135°   | 255.0 | 304.2 | 432.1 | 653.9  | 755.1  |
| 137.5° | 263.4 | 312.6 | 430.6 | 621.8  | 713.1  |
| 140°   | 271.8 | 320.2 | 429.8 | 590.5  | 668.8  |
| 142.5° | 280.9 | 327.2 | 428.3 | 561.9  | 627.6  |
| 145°   | 290.9 | 333.2 | 426.8 | 536.3  | 590.1  |
| 147.5° | 300.8 | 339.8 | 424.5 | 516.5  | 558.1  |
| 150°   | 310.7 | 345.0 | 421.4 | 499.0  | 530.6  |
| 152.5° | 320.6 | 350.8 | 417.6 | 483.6  | 507.7  |
| 155°   | 330.6 | 356.5 | 413.0 | 469.5  | 489.4  |
| 157.5° | 338.2 | 361.5 | 409.2 | 455.8  | 471.8  |
| 160°   | 347.4 | 365.7 | 404.6 | 443.2  | 455.0  |
| 162.5° | 354.2 | 368.8 | 400.0 | 431.4  | 439.7  |
| 165°   | 361.1 | 371.4 | 395.5 | 419.5  | 426.8  |
| 167.5° | 366.5 | 373.7 | 390.9 | 409.2  | 413.8  |
| 170°   | 371.0 | 374.8 | 386.3 | 400.0  | 402.3  |
| 172.5° | 374.1 | 376.0 | 382.5 | 392.0  | 391.6  |
| 175°   | 376.4 | 376.8 | 379.4 | 384.8  | 384.0  |
| 177.5° | 377.9 | 377.1 | 377.1 | 380.2  | 378.7  |
| 180°   | 377.1 | 377.1 | 377.1 | 377.1  | 377.1  |

(END OF REPORT)