

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: P1025809

Luminaire Tested: S124DIP-B795D365UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025809  
REPORT IS A COMBINATION OF REPORTS P996469 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B795D365UB30-4F0-XX-W2A-F  
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

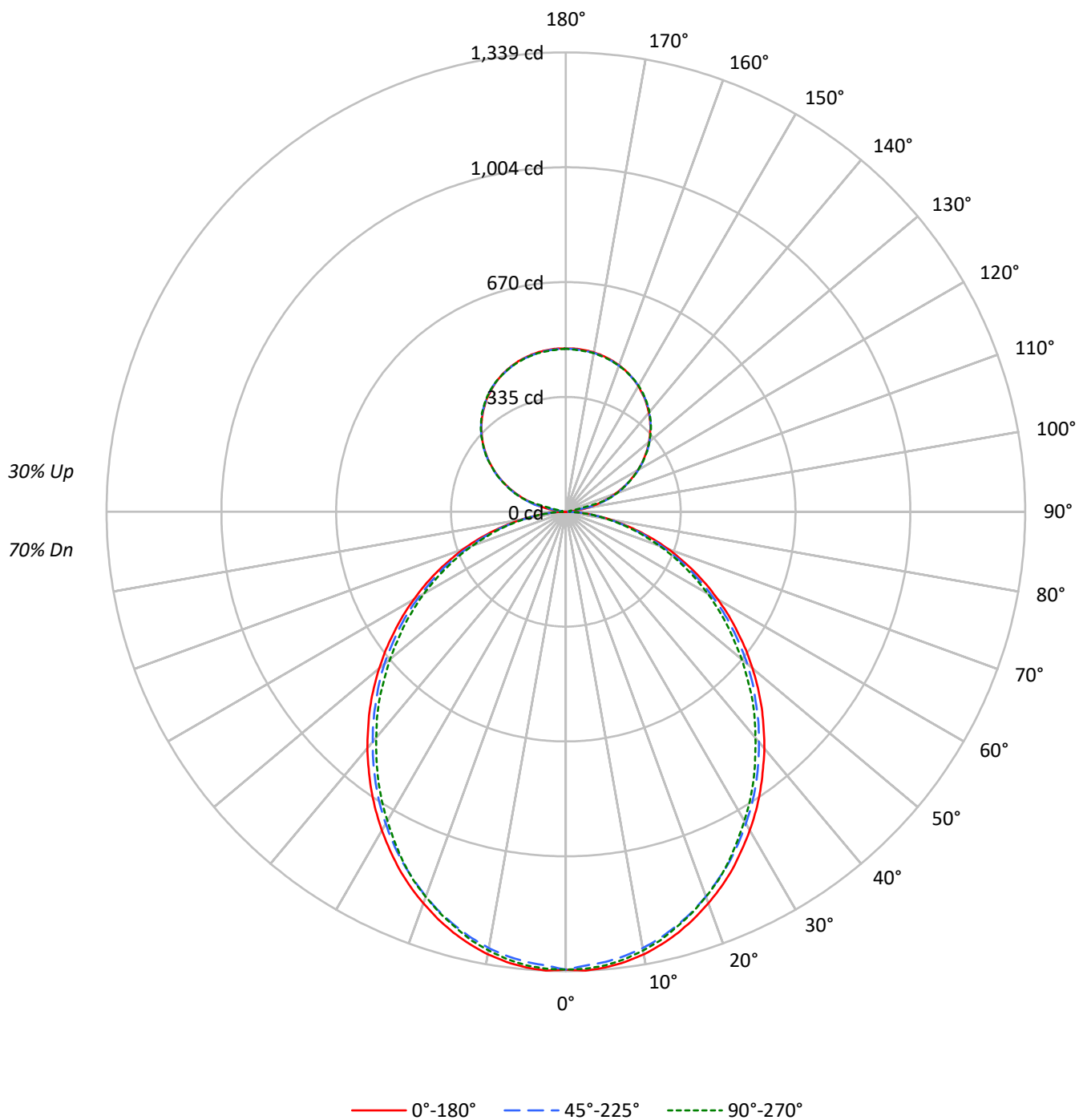
Lumens per Lamp: N/A  
Luminaire Lumens: 4897.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 45.2  
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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 94 | 94 | 94 | 84 | 84 | 84 | 74 | 74 | 74 |
| 1   | 102 | 98  | 94  | 90  | 96  | 93  | 89  | 86  | 83 | 80 | 78 | 74 | 72 | 70 | 66 | 64 | 63 |
| 2   | 93  | 85  | 79  | 74  | 88  | 81  | 75  | 70  | 73 | 68 | 64 | 65 | 62 | 58 | 58 | 55 | 53 |
| 3   | 85  | 75  | 67  | 61  | 80  | 71  | 64  | 59  | 64 | 59 | 54 | 57 | 53 | 50 | 51 | 48 | 45 |
| 4   | 78  | 67  | 58  | 52  | 73  | 63  | 56  | 50  | 57 | 51 | 46 | 51 | 46 | 42 | 46 | 42 | 39 |
| 5   | 72  | 59  | 51  | 45  | 67  | 57  | 49  | 43  | 51 | 45 | 40 | 46 | 41 | 37 | 41 | 37 | 34 |
| 6   | 66  | 53  | 45  | 39  | 62  | 51  | 43  | 38  | 46 | 40 | 35 | 42 | 36 | 32 | 38 | 33 | 30 |
| 7   | 61  | 48  | 40  | 34  | 58  | 46  | 39  | 33  | 42 | 36 | 31 | 38 | 33 | 29 | 34 | 30 | 27 |
| 8   | 57  | 44  | 36  | 31  | 54  | 42  | 35  | 30  | 38 | 32 | 28 | 35 | 30 | 26 | 32 | 27 | 24 |
| 9   | 53  | 40  | 33  | 27  | 50  | 39  | 31  | 27  | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 25 | 22 |
| 10  | 50  | 37  | 30  | 25  | 47  | 36  | 29  | 24  | 33 | 27 | 22 | 30 | 25 | 21 | 27 | 23 | 20 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10881 | 10881 | 10881 |
| 5°  | 10890 | 10568 | 10581 |
| 10° | 10798 | 10275 | 10203 |
| 15° | 10643 | 9926  | 9777  |
| 20° | 10445 | 9549  | 9334  |
| 25° | 10223 | 9150  | 8859  |
| 30° | 9954  | 8719  | 8338  |
| 35° | 9676  | 8278  | 7833  |
| 40° | 9387  | 7803  | 7296  |
| 45° | 9083  | 7327  | 6794  |
| 50° | 8747  | 6865  | 6238  |
| 55° | 8380  | 6326  | 5687  |
| 60° | 8007  | 5735  | 5111  |
| 65° | 7578  | 5126  | 4464  |
| 70° | 7086  | 4390  | 3770  |
| 75° | 6349  | 3540  | 3019  |
| 80° | 5408  | 2559  | 2125  |
| 85° | 4199  | 1425  | 1142  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 9083 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.8  | 2.6       |
| 10°-20°   | 354.3  | 7.2       |
| 20°-30°   | 521.5  | 10.6      |
| 30°-40°   | 606.2  | 12.4      |
| 40°-50°   | 606.2  | 12.4      |
| 50°-60°   | 530.2  | 10.8      |
| 60°-70°   | 393.6  | 8.0       |
| 70°-80°   | 223.3  | 4.6       |
| 80°-90°   | 64.9   | 1.3       |
| 90°-100°  | 15.8   | 0.3       |
| 100°-110° | 103.9  | 2.1       |
| 110°-120° | 198.4  | 4.1       |
| 120°-130° | 251.9  | 5.1       |
| 130°-140° | 269.5  | 5.5       |
| 140°-150° | 252.0  | 5.1       |
| 150°-160° | 203.2  | 4.1       |
| 160°-170° | 131.1  | 2.7       |
| 170°-180° | 45.2   | 0.9       |
| 0°-30°    | 1001.6 | 20.5      |
| 0°-40°    | 1607.8 | 32.8      |
| 0°-60°    | 2744.1 | 56.0      |
| 0°-90°    | 3426.0 | 70.0      |
| 90°-120°  | 318.1  | 6.5       |
| 90°-150°  | 1091.6 | 22.3      |
| 90°-180°  | 1471.0 | 30.0      |
| 0°-180°   | 4897.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1334 | 1334  | 1334 | 1334  | 1334 |      |
| 5°   | 1333 | 1329  | 1317 | 1329  | 1327 | 127  |
| 15°  | 1269 | 1265  | 1249 | 1255  | 1252 | 358  |
| 25°  | 1149 | 1142  | 1127 | 1128  | 1124 | 529  |
| 35°  | 989  | 982   | 967  | 959   | 954  | 618  |
| 45°  | 807  | 800   | 783  | 771   | 768  | 622  |
| 55°  | 610  | 607   | 592  | 580   | 573  | 547  |
| 65°  | 414  | 408   | 398  | 387   | 382  | 410  |
| 75°  | 220  | 215   | 210  | 205   | 204  | 234  |
| 85°  | 58   | 58    | 56   | 56    | 54   | 62   |
| 90°  | 1    | 5     | 8    | 10    | 11   | 5    |
| 95°  | 20   | 8     | 8    | 10    | 10   | 24   |
| 105° | 107  | 109   | 111  | 114   | 101  | 112  |
| 115° | 200  | 201   | 200  | 201   | 201  | 197  |
| 125° | 281  | 282   | 282  | 283   | 283  | 251  |
| 135° | 348  | 348   | 350  | 350   | 351  | 269  |
| 145° | 402  | 403   | 403  | 403   | 404  | 251  |
| 155° | 440  | 441   | 440  | 441   | 440  | 203  |
| 165° | 465  | 463   | 463  | 466   | 463  | 131  |
| 175° | 475  | 473   | 474  | 477   | 472  | 45   |
| 180° | 475  | 475   | 475  | 475   | 475  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1334.4 | 1334.4 | 1334.4 | 1334.4 | 1334.4 |
| 2.5°   | 1338.7 | 1335.5 | 1323.7 | 1334.4 | 1333.3 |
| 5°     | 1333.3 | 1329.1 | 1317.3 | 1329.1 | 1326.9 |
| 7.5°   | 1323.7 | 1319.4 | 1306.6 | 1316.2 | 1315.2 |
| 10°    | 1309.8 | 1305.5 | 1291.6 | 1300.2 | 1298.0 |
| 12.5°  | 1291.6 | 1287.4 | 1272.4 | 1282.0 | 1278.8 |
| 15°    | 1269.2 | 1264.9 | 1248.9 | 1255.3 | 1252.1 |
| 17.5°  | 1243.5 | 1238.2 | 1223.2 | 1227.5 | 1225.3 |
| 20°    | 1214.6 | 1209.3 | 1193.3 | 1196.5 | 1194.3 |
| 22.5°  | 1183.6 | 1176.2 | 1160.1 | 1166.5 | 1162.3 |
| 25°    | 1149.4 | 1141.9 | 1127.0 | 1128.0 | 1123.8 |
| 27.5°  | 1110.9 | 1103.4 | 1089.5 | 1087.4 | 1082.1 |
| 30°    | 1072.4 | 1063.9 | 1050.0 | 1045.7 | 1040.4 |
| 32.5°  | 1031.8 | 1024.3 | 1009.4 | 1004.0 | 998.7  |
| 35°    | 989.0  | 981.6  | 966.6  | 959.1  | 953.8  |
| 37.5°  | 944.1  | 937.7  | 921.7  | 914.2  | 906.7  |
| 40°    | 900.3  | 891.7  | 875.7  | 865.0  | 859.7  |
| 42.5°  | 853.2  | 849.0  | 830.8  | 818.0  | 814.8  |
| 45°    | 807.3  | 799.8  | 782.7  | 770.9  | 767.7  |
| 47.5°  | 759.2  | 753.8  | 737.8  | 724.9  | 716.4  |
| 50°    | 710.0  | 705.7  | 690.7  | 675.8  | 669.3  |
| 52.5°  | 661.9  | 656.5  | 640.5  | 627.6  | 619.1  |
| 55°    | 610.5  | 607.3  | 592.4  | 579.5  | 573.1  |
| 57.5°  | 562.4  | 559.2  | 544.2  | 531.4  | 525.0  |
| 60°    | 512.2  | 506.8  | 492.9  | 483.3  | 477.9  |
| 62.5°  | 463.0  | 458.7  | 443.7  | 435.2  | 429.8  |
| 65°    | 413.8  | 408.4  | 397.8  | 387.1  | 381.7  |
| 67.5°  | 363.5  | 359.3  | 348.6  | 337.9  | 336.8  |
| 70°    | 317.6  | 310.1  | 301.5  | 293.0  | 289.8  |
| 72.5°  | 268.4  | 260.9  | 254.5  | 248.1  | 244.9  |
| 75°    | 220.3  | 214.9  | 209.6  | 205.3  | 204.2  |
| 77.5°  | 173.2  | 171.1  | 165.7  | 164.7  | 161.5  |
| 80°    | 131.5  | 128.3  | 126.2  | 124.0  | 123.0  |
| 82.5°  | 90.9   | 89.8   | 89.8   | 88.7   | 87.7   |
| 85°    | 57.7   | 57.7   | 55.6   | 55.6   | 54.5   |
| 87.5°  | 27.8   | 26.7   | 25.7   | 25.7   | 25.7   |
| 90°    | 1.1    | 5.0    | 7.8    | 10.0   | 10.7   |
| 92.5°  | 5.3    | 4.6    | 7.5    | 9.6    | 9.6    |
| 95°    | 19.6   | 7.5    | 7.8    | 10.0   | 10.3   |
| 97.5°  | 37.3   | 45.2   | 7.8    | 9.6    | 10.0   |
| 100°   | 58.3   | 64.7   | 15.6   | 9.6    | 10.0   |
| 102.5° | 81.8   | 86.0   | 90.3   | 10.3   | 10.3   |
| 105°   | 107.0  | 109.2  | 110.9  | 114.1  | 101.3  |
| 107.5° | 130.1  | 131.2  | 133.7  | 135.5  | 136.9  |
| 110°   | 153.6  | 154.7  | 156.8  | 157.5  | 158.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 176.4 | 178.5 | 179.2 | 178.8 | 180.3 |
| 115°   | 199.8 | 200.9 | 200.5 | 201.2 | 201.2 |
| 117.5° | 220.8 | 222.2 | 223.3 | 222.9 | 222.9 |
| 120°   | 242.1 | 243.6 | 243.2 | 243.9 | 243.2 |
| 122.5° | 262.1 | 262.8 | 263.5 | 263.8 | 263.1 |
| 125°   | 280.9 | 282.3 | 281.6 | 282.7 | 283.0 |
| 127.5° | 299.0 | 299.4 | 301.2 | 300.8 | 300.5 |
| 130°   | 316.5 | 316.8 | 317.9 | 318.2 | 318.2 |
| 132.5° | 332.5 | 333.2 | 334.6 | 334.9 | 334.6 |
| 135°   | 348.5 | 348.1 | 349.5 | 350.2 | 350.9 |
| 137.5° | 362.7 | 362.7 | 364.5 | 365.2 | 364.8 |
| 140°   | 376.5 | 377.3 | 378.0 | 379.0 | 379.4 |
| 142.5° | 389.0 | 390.4 | 390.8 | 391.5 | 391.5 |
| 145°   | 401.8 | 402.9 | 402.9 | 403.2 | 403.9 |
| 147.5° | 411.7 | 413.9 | 413.5 | 413.9 | 414.2 |
| 150°   | 422.8 | 424.2 | 423.8 | 423.8 | 424.2 |
| 152.5° | 432.0 | 433.1 | 432.4 | 433.1 | 432.7 |
| 155°   | 440.5 | 440.9 | 439.8 | 441.3 | 440.2 |
| 157.5° | 448.0 | 448.0 | 446.6 | 448.4 | 446.6 |
| 160°   | 454.4 | 453.3 | 453.0 | 455.1 | 453.0 |
| 162.5° | 460.1 | 458.7 | 458.3 | 460.5 | 458.0 |
| 165°   | 464.7 | 462.9 | 462.9 | 465.8 | 462.6 |
| 167.5° | 468.6 | 466.9 | 466.5 | 469.7 | 466.1 |
| 170°   | 471.8 | 469.7 | 470.1 | 472.9 | 469.3 |
| 172.5° | 474.0 | 471.8 | 472.2 | 475.0 | 471.1 |
| 175°   | 475.4 | 473.3 | 473.6 | 476.8 | 472.5 |
| 177.5° | 476.5 | 474.0 | 474.7 | 477.5 | 473.3 |
| 180°   | 475.4 | 475.4 | 475.4 | 475.4 | 475.4 |

(END OF REPORT)