

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: P1025501

Luminaire Tested: S124DIP-B575D1035UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025501  
REPORT IS A COMBINATION OF REPORTS P996056 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B575D1035UB35-4F0-XX-W2A-D1  
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

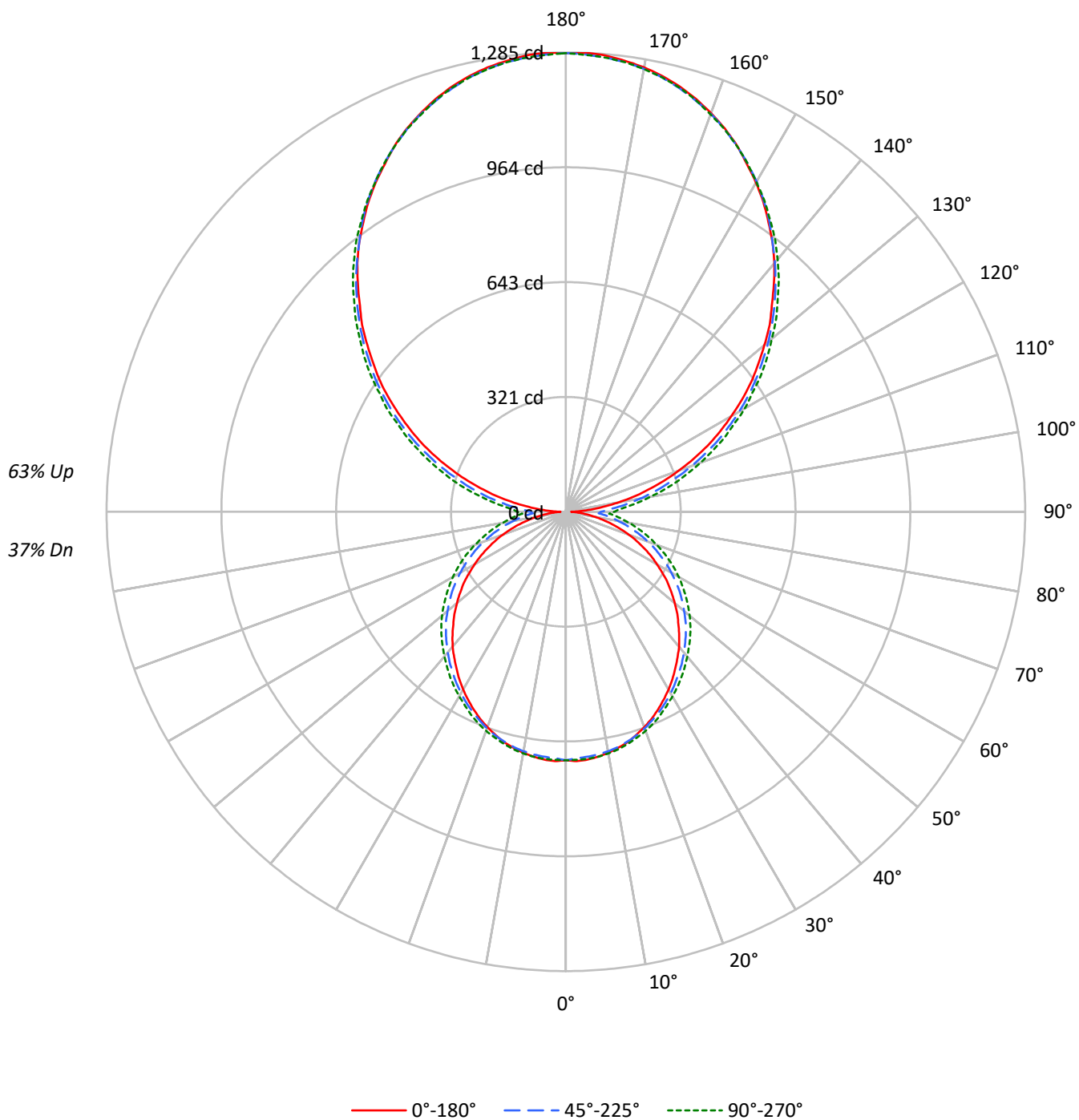
Lumens per Lamp: N/A  
Luminaire Lumens: 5933.0 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 52.5  
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

TEST NUMBER: P1025501

CATALOG NUMBER: S124DIP-B575D1035UB35-4F0-XX-W2A-D1

### Luminous Intensity Polar Plot



TEST NUMBER: P1025501

CATALOG NUMBER: S124DIP-B575D1035UB35-4F0-XX-W2A-D1

**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   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 |
| 1   | 94  | 90  | 85  | 82  | 85 | 81 | 78 | 75 | 65 | 63 | 61 | 51 | 49 | 48 | 38 | 37 | 36 |
| 2   | 85  | 78  | 71  | 66  | 77 | 70 | 65 | 60 | 57 | 53 | 50 | 44 | 42 | 39 | 33 | 31 | 30 |
| 3   | 78  | 68  | 61  | 55  | 70 | 62 | 55 | 50 | 50 | 45 | 41 | 39 | 36 | 33 | 29 | 27 | 25 |
| 4   | 71  | 60  | 52  | 46  | 64 | 54 | 48 | 42 | 44 | 39 | 35 | 35 | 31 | 28 | 26 | 23 | 21 |
| 5   | 65  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 39 | 34 | 30 | 31 | 27 | 24 | 23 | 20 | 18 |
| 6   | 60  | 48  | 39  | 34  | 54 | 43 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 21 | 21 | 18 | 16 |
| 7   | 55  | 43  | 35  | 29  | 50 | 39 | 32 | 27 | 32 | 27 | 23 | 25 | 21 | 18 | 19 | 16 | 14 |
| 8   | 51  | 39  | 31  | 26  | 46 | 35 | 28 | 24 | 29 | 24 | 20 | 23 | 19 | 16 | 17 | 15 | 12 |
| 9   | 47  | 35  | 28  | 23  | 43 | 32 | 26 | 21 | 26 | 21 | 18 | 21 | 17 | 14 | 16 | 13 | 11 |
| 10  | 44  | 32  | 25  | 20  | 40 | 29 | 23 | 19 | 24 | 19 | 16 | 19 | 16 | 13 | 15 | 12 | 10 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5668 | 5668 | 5668 |
| 5°  | 5684 | 5521 | 5531 |
| 10° | 5647 | 5412 | 5397 |
| 15° | 5594 | 5290 | 5246 |
| 20° | 5516 | 5157 | 5098 |
| 25° | 5428 | 5012 | 4940 |
| 30° | 5333 | 4868 | 4779 |
| 35° | 5224 | 4720 | 4635 |
| 40° | 5137 | 4578 | 4486 |
| 45° | 5010 | 4445 | 4354 |
| 50° | 4901 | 4294 | 4216 |
| 55° | 4787 | 4148 | 4055 |
| 60° | 4611 | 3967 | 3905 |
| 65° | 4419 | 3772 | 3724 |
| 70° | 4185 | 3547 | 3514 |
| 75° | 3859 | 3300 | 3315 |
| 80° | 3488 | 3046 | 3106 |
| 85° | 3005 | 2793 | 2937 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 5056 cd/sqm

TEST NUMBER: P1025501

CATALOG NUMBER: S124DIP-B575D1035UB35-4F0-XX-W2A-D1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.9   | 1.1       |
| 10°-20°   | 188.7  | 3.2       |
| 20°-30°   | 285.3  | 4.8       |
| 30°-40°   | 345.2  | 5.8       |
| 40°-50°   | 364.9  | 6.2       |
| 50°-60°   | 343.5  | 5.8       |
| 60°-70°   | 285.0  | 4.8       |
| 70°-80°   | 200.0  | 3.4       |
| 80°-90°   | 115.5  | 1.9       |
| 90°-100°  | 150.8  | 2.5       |
| 100°-110° | 300.2  | 5.1       |
| 110°-120° | 458.9  | 7.7       |
| 120°-130° | 580.0  | 9.8       |
| 130°-140° | 638.5  | 10.8      |
| 140°-150° | 621.2  | 10.5      |
| 150°-160° | 521.1  | 8.8       |
| 160°-170° | 346.7  | 5.8       |
| 170°-180° | 121.4  | 2.0       |
| 0°-30°    | 539.9  | 9.1       |
| 0°-40°    | 885.1  | 14.9      |
| 0°-60°    | 1593.5 | 26.9      |
| 0°-90°    | 2194.0 | 37.0      |
| 90°-120°  | 909.9  | 15.3      |
| 90°-150°  | 2749.7 | 46.3      |
| 90°-180°  | 3739.0 | 63.0      |
| 0°-180°   | 5933.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 695  | 695   | 695  | 695   | 695  |      |
| 5°   | 696  | 694   | 688  | 694   | 694  | 66   |
| 15°  | 667  | 668   | 666  | 673   | 672  | 188  |
| 25°  | 610  | 615   | 617  | 626   | 627  | 281  |
| 35°  | 534  | 543   | 551  | 562   | 564  | 334  |
| 45°  | 445  | 460   | 475  | 488   | 492  | 344  |
| 55°  | 349  | 365   | 388  | 404   | 409  | 311  |
| 65°  | 241  | 266   | 293  | 312   | 318  | 239  |
| 75°  | 134  | 163   | 195  | 217   | 224  | 142  |
| 85°  | 41   | 74    | 109  | 132   | 140  | 43   |
| 90°  | 16   | 58    | 99   | 127   | 136  | 13   |
| 95°  | 70   | 104   | 143  | 167   | 174  | 73   |
| 105° | 238  | 255   | 288  | 310   | 319  | 253  |
| 115° | 437  | 444   | 467  | 483   | 488  | 432  |
| 125° | 633  | 632   | 651  | 664   | 666  | 565  |
| 135° | 814  | 820   | 826  | 836   | 838  | 630  |
| 145° | 988  | 991   | 992  | 996   | 996  | 619  |
| 155° | 1131 | 1131  | 1130 | 1134  | 1130 | 521  |
| 165° | 1232 | 1229  | 1227 | 1232  | 1229 | 347  |
| 175° | 1281 | 1276  | 1275 | 1282  | 1275 | 122  |
| 180° | 1283 | 1283  | 1283 | 1283  | 1283 |      |

TEST NUMBER: P1025501

CATALOG NUMBER: S124DIP-B575D1035UB35-4F0-XX-W2A-D1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 |
| 2.5°   | 698.2 | 695.9 | 689.7 | 695.1 | 694.4 |
| 5°     | 695.9 | 693.6 | 688.1 | 694.4 | 693.6 |
| 7.5°   | 691.2 | 689.7 | 685.0 | 692.0 | 691.2 |
| 10°    | 685.0 | 684.2 | 680.3 | 687.4 | 686.6 |
| 12.5°  | 676.5 | 676.5 | 674.1 | 680.3 | 680.3 |
| 15°    | 667.1 | 667.9 | 665.6 | 672.6 | 671.8 |
| 17.5°  | 654.7 | 657.0 | 656.2 | 663.2 | 662.4 |
| 20°    | 641.4 | 643.8 | 644.5 | 652.3 | 652.3 |
| 22.5°  | 626.6 | 629.7 | 631.3 | 639.1 | 640.6 |
| 25°    | 610.3 | 615.0 | 617.3 | 625.9 | 626.6 |
| 27.5°  | 592.4 | 599.4 | 602.5 | 610.3 | 611.1 |
| 30°    | 574.5 | 580.7 | 586.2 | 594.7 | 596.3 |
| 32.5°  | 555.0 | 562.8 | 569.0 | 579.1 | 580.7 |
| 35°    | 534.0 | 543.3 | 551.1 | 562.0 | 564.4 |
| 37.5°  | 513.0 | 523.9 | 533.2 | 544.1 | 546.5 |
| 40°    | 492.7 | 502.9 | 513.8 | 525.4 | 528.6 |
| 42.5°  | 469.4 | 481.1 | 494.3 | 507.5 | 509.9 |
| 45°    | 445.3 | 460.1 | 474.8 | 488.1 | 492.0 |
| 47.5°  | 422.7 | 437.5 | 454.6 | 467.8 | 472.5 |
| 50°    | 397.8 | 414.9 | 432.0 | 447.6 | 452.3 |
| 52.5°  | 372.9 | 390.0 | 410.2 | 425.8 | 430.5 |
| 55°    | 348.7 | 365.1 | 388.4 | 404.0 | 408.7 |
| 57.5°  | 321.5 | 341.7 | 364.3 | 383.0 | 386.9 |
| 60°    | 295.0 | 315.3 | 341.0 | 358.9 | 365.1 |
| 62.5°  | 269.3 | 291.9 | 317.6 | 335.5 | 341.7 |
| 65°    | 241.3 | 266.2 | 292.7 | 312.1 | 318.4 |
| 67.5°  | 214.8 | 241.3 | 269.3 | 288.8 | 295.0 |
| 70°    | 187.6 | 214.1 | 243.6 | 264.7 | 270.1 |
| 72.5°  | 161.1 | 188.4 | 220.3 | 240.5 | 246.8 |
| 75°    | 133.9 | 162.7 | 195.4 | 217.2 | 224.2 |
| 77.5°  | 108.2 | 138.6 | 172.8 | 194.6 | 202.4 |
| 80°    | 84.8  | 116.0 | 150.2 | 173.6 | 179.8 |
| 82.5°  | 61.5  | 94.2  | 128.4 | 152.6 | 159.6 |
| 85°    | 41.3  | 74.0  | 109.0 | 132.3 | 140.1 |
| 87.5°  | 25.7  | 57.6  | 91.9  | 114.4 | 121.4 |
| 90°    | 15.5  | 57.5  | 98.9  | 127.4 | 135.7 |
| 92.5°  | 37.5  | 77.6  | 116.1 | 140.8 | 148.0 |
| 95°    | 69.6  | 104.3 | 143.1 | 167.1 | 174.1 |
| 97.5°  | 104.6 | 135.1 | 174.9 | 199.2 | 206.2 |
| 100°   | 147.5 | 171.7 | 211.0 | 234.0 | 239.4 |
| 102.5° | 193.2 | 211.3 | 248.8 | 272.0 | 279.2 |
| 105°   | 238.2 | 254.8 | 287.6 | 310.0 | 319.2 |
| 107.5° | 286.9 | 301.0 | 329.3 | 352.7 | 357.2 |
| 110°   | 335.7 | 348.6 | 374.9 | 390.8 | 400.0 |

TEST NUMBER: P1025501

CATALOG NUMBER: S124DIP-B575D1035UB35-4F0-XX-W2A-D1

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 386.5  | 395.9  | 419.6  | 436.7  | 442.9  |
| 115°   | 437.4  | 444.4  | 467.3  | 483.4  | 487.9  |
| 117.5° | 486.0  | 490.6  | 513.0  | 526.3  | 529.7  |
| 120°   | 533.8  | 540.1  | 559.7  | 570.4  | 578.5  |
| 122.5° | 584.4  | 585.4  | 605.4  | 618.1  | 618.5  |
| 125°   | 633.3  | 632.5  | 651.0  | 663.8  | 666.5  |
| 127.5° | 677.9  | 680.1  | 693.7  | 705.7  | 710.2  |
| 130°   | 724.8  | 727.0  | 739.4  | 751.4  | 752.2  |
| 132.5° | 773.4  | 774.7  | 783.0  | 794.2  | 797.9  |
| 135°   | 814.4  | 820.3  | 825.7  | 836.2  | 837.9  |
| 137.5° | 861.0  | 863.2  | 868.3  | 877.0  | 881.9  |
| 140°   | 907.6  | 908.8  | 909.6  | 918.7  | 921.6  |
| 142.5° | 949.5  | 951.5  | 949.7  | 958.3  | 961.4  |
| 145°   | 988.2  | 991.4  | 992.4  | 996.1  | 996.2  |
| 147.5° | 1027.9 | 1032.1 | 1031.1 | 1030.9 | 1033.0 |
| 150°   | 1063.6 | 1066.8 | 1066.8 | 1066.8 | 1065.8 |
| 152.5° | 1096.6 | 1098.6 | 1099.6 | 1102.5 | 1099.6 |
| 155°   | 1131.3 | 1131.3 | 1130.3 | 1134.3 | 1130.3 |
| 157.5° | 1161.1 | 1159.1 | 1159.1 | 1162.1 | 1159.1 |
| 160°   | 1186.9 | 1185.9 | 1184.9 | 1187.9 | 1182.9 |
| 162.5° | 1210.7 | 1207.7 | 1206.7 | 1212.7 | 1207.7 |
| 165°   | 1231.5 | 1228.6 | 1226.6 | 1232.5 | 1228.6 |
| 167.5° | 1248.4 | 1244.4 | 1244.4 | 1250.4 | 1244.4 |
| 170°   | 1262.3 | 1257.3 | 1258.3 | 1264.3 | 1257.3 |
| 172.5° | 1272.2 | 1268.3 | 1268.3 | 1275.2 | 1268.3 |
| 175°   | 1281.2 | 1276.2 | 1275.2 | 1282.2 | 1275.2 |
| 177.5° | 1285.1 | 1280.2 | 1280.2 | 1287.1 | 1279.2 |
| 180°   | 1283.1 | 1283.1 | 1283.1 | 1283.1 | 1283.1 |

(END OF REPORT)