

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: P1025482

Luminaire Tested: S124DIP-B575D1035UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025482  
REPORT IS A COMBINATION OF REPORTS P996022 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B575D1035UB27-4F0-XX-W2A-D  
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

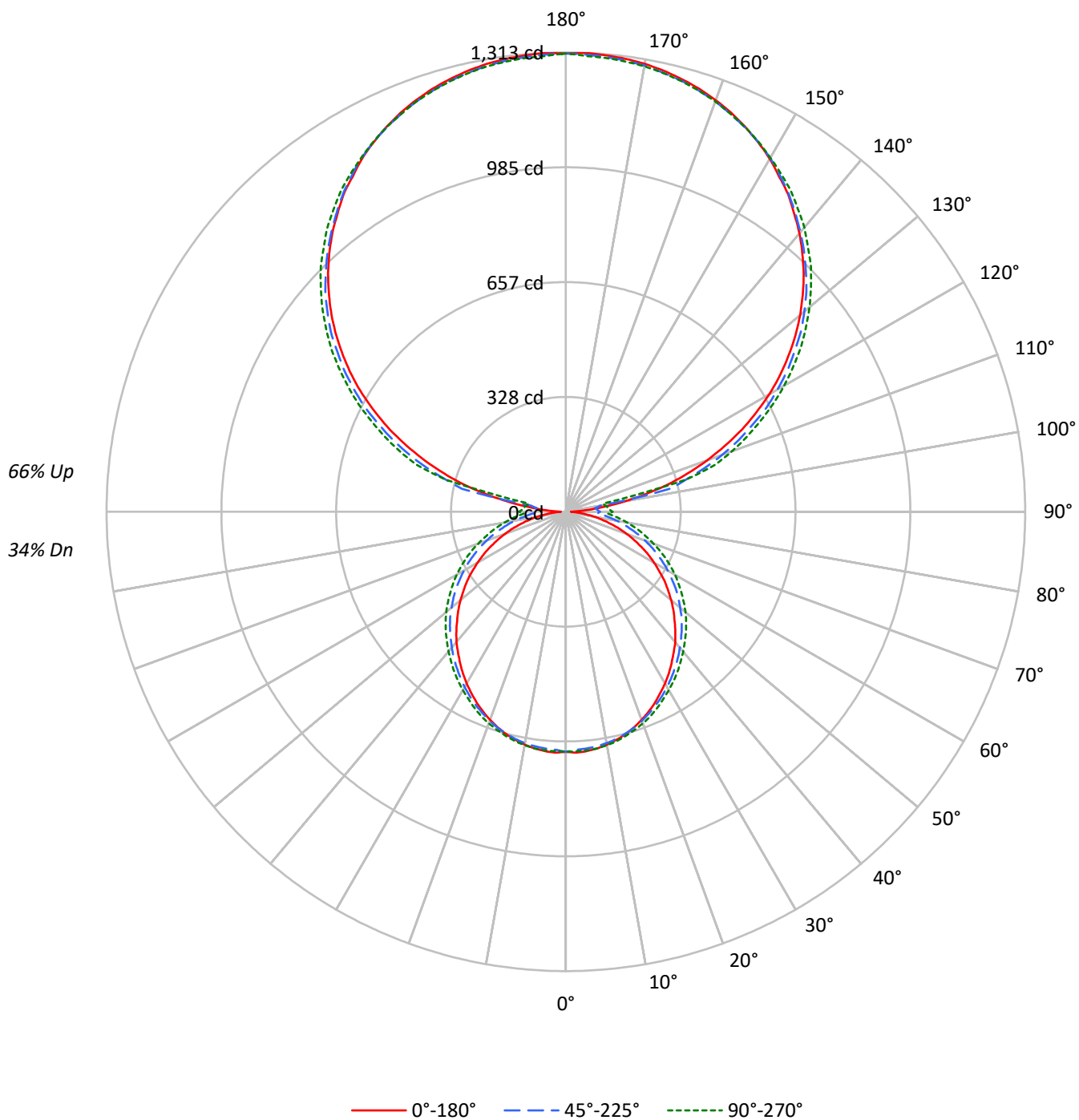
Lumens per Lamp: N/A  
Luminaire Lumens: 6395.0 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

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

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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 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |  |    |    |    |  |    |
| 0   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 |  | 57 | 57 | 57 |  | 41 |
| 1   | 93  | 89  | 85  | 81  | 84 | 80 | 77 | 74 | 64 | 62 | 59 |  | 49 | 48 | 46 |  | 35 |
| 2   | 85  | 77  | 71  | 66  | 76 | 70 | 64 | 60 | 56 | 52 | 49 |  | 43 | 40 | 38 |  | 31 |
| 3   | 77  | 68  | 60  | 54  | 69 | 61 | 55 | 50 | 49 | 44 | 40 |  | 37 | 34 | 32 |  | 27 |
| 4   | 70  | 60  | 52  | 46  | 63 | 54 | 47 | 42 | 43 | 38 | 34 |  | 33 | 30 | 27 |  | 24 |
| 5   | 64  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 38 | 33 | 29 |  | 30 | 26 | 23 |  | 21 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 36 | 31 | 34 | 29 | 25 |  | 27 | 23 | 20 |  | 19 |
| 7   | 55  | 42  | 35  | 29  | 49 | 39 | 32 | 27 | 31 | 26 | 22 |  | 24 | 20 | 18 |  | 18 |
| 8   | 51  | 38  | 31  | 25  | 45 | 35 | 28 | 23 | 28 | 23 | 19 |  | 22 | 18 | 16 |  | 16 |
| 9   | 47  | 35  | 28  | 23  | 42 | 32 | 25 | 21 | 26 | 21 | 17 |  | 20 | 17 | 14 |  | 15 |
| 10  | 44  | 32  | 25  | 20  | 39 | 29 | 23 | 18 | 24 | 19 | 15 |  | 19 | 15 | 12 |  | 14 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5594 | 5594 | 5594 |
| 5°  | 5610 | 5448 | 5458 |
| 10° | 5574 | 5341 | 5326 |
| 15° | 5521 | 5220 | 5177 |
| 20° | 5444 | 5090 | 5032 |
| 25° | 5357 | 4946 | 4875 |
| 30° | 5263 | 4804 | 4716 |
| 35° | 5156 | 4658 | 4574 |
| 40° | 5070 | 4518 | 4427 |
| 45° | 4944 | 4387 | 4297 |
| 50° | 4836 | 4238 | 4161 |
| 55° | 4725 | 4094 | 4002 |
| 60° | 4552 | 3915 | 3854 |
| 65° | 4362 | 3723 | 3675 |
| 70° | 4130 | 3502 | 3469 |
| 75° | 3807 | 3256 | 3272 |
| 80° | 3442 | 3008 | 3066 |
| 85° | 2962 | 2757 | 2899 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 4958 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.0   | 1.0       |
| 10°-20°   | 186.2  | 2.9       |
| 20°-30°   | 281.6  | 4.4       |
| 30°-40°   | 340.7  | 5.3       |
| 40°-50°   | 360.2  | 5.6       |
| 50°-60°   | 339.0  | 5.3       |
| 60°-70°   | 281.3  | 4.4       |
| 70°-80°   | 197.4  | 3.1       |
| 80°-90°   | 114.0  | 1.8       |
| 90°-100°  | 109.7  | 1.7       |
| 100°-110° | 335.4  | 5.2       |
| 110°-120° | 579.7  | 9.1       |
| 120°-130° | 712.7  | 11.1      |
| 130°-140° | 750.6  | 11.7      |
| 140°-150° | 696.0  | 10.9      |
| 150°-160° | 560.0  | 8.8       |
| 160°-170° | 361.1  | 5.6       |
| 170°-180° | 124.5  | 1.9       |
| 0°-30°    | 532.8  | 8.3       |
| 0°-40°    | 873.5  | 13.7      |
| 0°-60°    | 1572.7 | 24.6      |
| 0°-90°    | 2165.3 | 33.9      |
| 90°-120°  | 1024.9 | 16.0      |
| 90°-150°  | 3184.1 | 49.8      |
| 90°-180°  | 4230.0 | 66.1      |
| 0°-180°   | 6395.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 686  | 686   | 686  | 686   | 686  |      |
| 5°   | 687  | 684   | 679  | 685   | 684  | 65   |
| 15°  | 658  | 659   | 657  | 664   | 663  | 186  |
| 25°  | 602  | 607   | 609  | 618   | 618  | 277  |
| 35°  | 527  | 536   | 544  | 555   | 557  | 330  |
| 45°  | 439  | 454   | 469  | 482   | 486  | 340  |
| 55°  | 344  | 360   | 383  | 399   | 403  | 307  |
| 65°  | 238  | 263   | 289  | 308   | 314  | 236  |
| 75°  | 132  | 161   | 193  | 214   | 221  | 140  |
| 85°  | 41   | 73    | 108  | 131   | 138  | 42   |
| 90°  | 15   | 57    | 98   | 126   | 134  | 11   |
| 95°  | 64   | 56    | 88   | 115   | 123  | 74   |
| 105° | 302  | 323   | 356  | 384   | 355  | 316  |
| 115° | 555  | 565   | 589  | 608   | 613  | 547  |
| 125° | 777  | 780   | 797  | 815   | 821  | 694  |
| 135° | 962  | 961   | 970  | 984   | 991  | 741  |
| 145° | 1108 | 1110  | 1110 | 1116  | 1121 | 692  |
| 155° | 1214 | 1215  | 1212 | 1216  | 1213 | 560  |
| 165° | 1280 | 1276  | 1276 | 1283  | 1275 | 362  |
| 175° | 1310 | 1304  | 1305 | 1314  | 1302 | 125  |
| 180° | 1310 | 1310  | 1310 | 1310  | 1310 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 686.0 | 686.0 | 686.0 | 686.0 | 686.0 |
| 2.5°   | 689.1 | 686.8 | 680.7 | 686.0 | 685.3 |
| 5°     | 686.8 | 684.5 | 679.1 | 685.3 | 684.5 |
| 7.5°   | 682.2 | 680.7 | 676.1 | 683.0 | 682.2 |
| 10°    | 676.1 | 675.3 | 671.4 | 678.4 | 677.6 |
| 12.5°  | 667.6 | 667.6 | 665.3 | 671.4 | 671.4 |
| 15°    | 658.4 | 659.2 | 656.8 | 663.8 | 663.0 |
| 17.5°  | 646.1 | 648.4 | 647.6 | 654.5 | 653.8 |
| 20°    | 633.0 | 635.3 | 636.1 | 643.8 | 643.8 |
| 22.5°  | 618.4 | 621.5 | 623.0 | 630.7 | 632.3 |
| 25°    | 602.3 | 606.9 | 609.2 | 617.7 | 618.4 |
| 27.5°  | 584.6 | 591.5 | 594.6 | 602.3 | 603.1 |
| 30°    | 567.0 | 573.1 | 578.5 | 586.9 | 588.5 |
| 32.5°  | 547.8 | 555.4 | 561.6 | 571.6 | 573.1 |
| 35°    | 527.0 | 536.2 | 543.9 | 554.7 | 557.0 |
| 37.5°  | 506.3 | 517.0 | 526.2 | 537.0 | 539.3 |
| 40°    | 486.3 | 496.3 | 507.0 | 518.6 | 521.6 |
| 42.5°  | 463.3 | 474.8 | 487.8 | 500.9 | 503.2 |
| 45°    | 439.4 | 454.0 | 468.6 | 481.7 | 485.5 |
| 47.5°  | 417.2 | 431.8 | 448.7 | 461.7 | 466.3 |
| 50°    | 392.6 | 409.5 | 426.4 | 441.7 | 446.4 |
| 52.5°  | 368.0 | 384.9 | 404.9 | 420.2 | 424.8 |
| 55°    | 344.2 | 360.3 | 383.4 | 398.7 | 403.3 |
| 57.5°  | 317.3 | 337.3 | 359.5 | 378.0 | 381.8 |
| 60°    | 291.2 | 311.1 | 336.5 | 354.2 | 360.3 |
| 62.5°  | 265.8 | 288.1 | 313.4 | 331.1 | 337.3 |
| 65°    | 238.2 | 262.7 | 288.9 | 308.1 | 314.2 |
| 67.5°  | 212.0 | 238.2 | 265.8 | 285.0 | 291.2 |
| 70°    | 185.1 | 211.3 | 240.5 | 261.2 | 266.6 |
| 72.5°  | 159.0 | 185.9 | 217.4 | 237.4 | 243.5 |
| 75°    | 132.1 | 160.6 | 192.8 | 214.3 | 221.3 |
| 77.5°  | 106.8 | 136.7 | 170.6 | 192.1 | 199.7 |
| 80°    | 83.7  | 114.5 | 148.3 | 171.3 | 177.5 |
| 82.5°  | 60.7  | 93.0  | 126.8 | 150.6 | 157.5 |
| 85°    | 40.7  | 73.0  | 107.6 | 130.6 | 138.3 |
| 87.5°  | 25.4  | 56.9  | 90.7  | 112.9 | 119.8 |
| 90°    | 15.2  | 56.7  | 97.7  | 125.7 | 133.9 |
| 92.5°  | 26.2  | 51.1  | 92.0  | 119.5 | 125.6 |
| 95°    | 63.9  | 55.9  | 88.4  | 115.0 | 122.9 |
| 97.5°  | 112.1 | 155.9 | 84.6  | 109.5 | 117.3 |
| 100°   | 169.2 | 206.7 | 101.5 | 105.6 | 111.9 |
| 102.5° | 233.8 | 262.5 | 303.4 | 102.9 | 109.1 |
| 105°   | 301.8 | 323.1 | 356.4 | 384.4 | 355.3 |
| 107.5° | 365.5 | 381.5 | 415.3 | 439.4 | 448.6 |
| 110°   | 429.3 | 443.1 | 475.9 | 495.5 | 504.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 491.3  | 506.4  | 533.7  | 549.7  | 559.7  |
| 115°   | 555.2  | 565.0  | 588.7  | 607.5  | 612.9  |
| 117.5° | 613.0  | 621.5  | 647.6  | 662.7  | 668.8  |
| 120°   | 671.0  | 677.2  | 698.5  | 715.9  | 720.0  |
| 122.5° | 725.9  | 727.8  | 750.6  | 766.9  | 770.3  |
| 125°   | 777.1  | 780.2  | 797.4  | 815.0  | 820.6  |
| 127.5° | 827.1  | 827.2  | 847.5  | 860.4  | 864.8  |
| 130°   | 874.3  | 874.4  | 889.7  | 904.6  | 909.2  |
| 132.5° | 918.3  | 919.5  | 932.7  | 946.7  | 950.3  |
| 135°   | 961.6  | 960.7  | 970.0  | 984.2  | 990.8  |
| 137.5° | 1000.8 | 1000.1 | 1008.0 | 1021.6 | 1024.4 |
| 140°   | 1039.0 | 1040.3 | 1043.0 | 1055.9 | 1060.8 |
| 142.5° | 1072.6 | 1076.5 | 1076.7 | 1087.2 | 1090.2 |
| 145°   | 1107.9 | 1110.0 | 1110.0 | 1115.6 | 1120.7 |
| 147.5° | 1135.3 | 1140.4 | 1139.4 | 1141.2 | 1145.2 |
| 150°   | 1165.7 | 1168.8 | 1167.8 | 1167.8 | 1168.8 |
| 152.5° | 1190.4 | 1193.3 | 1191.4 | 1193.3 | 1192.3 |
| 155°   | 1213.9 | 1214.9 | 1211.9 | 1215.8 | 1212.9 |
| 157.5° | 1234.5 | 1234.5 | 1230.5 | 1235.4 | 1230.5 |
| 160°   | 1252.1 | 1249.2 | 1248.2 | 1254.1 | 1248.2 |
| 162.5° | 1267.8 | 1263.9 | 1262.9 | 1268.8 | 1261.9 |
| 165°   | 1280.5 | 1275.6 | 1275.6 | 1283.4 | 1274.6 |
| 167.5° | 1291.3 | 1286.4 | 1285.4 | 1294.2 | 1284.4 |
| 170°   | 1300.1 | 1294.2 | 1295.2 | 1303.0 | 1293.2 |
| 172.5° | 1306.0 | 1300.1 | 1301.1 | 1308.9 | 1298.1 |
| 175°   | 1309.9 | 1304.0 | 1305.0 | 1313.8 | 1302.1 |
| 177.5° | 1312.8 | 1306.0 | 1307.9 | 1315.8 | 1304.0 |
| 180°   | 1309.9 | 1309.9 | 1309.9 | 1309.9 | 1309.9 |

(END OF REPORT)