

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: P1025574

Luminaire Tested: S124DIP-B575D365UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025574  
REPORT IS A COMBINATION OF REPORTS P996144 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B575D365UB27-4F0-XX-W2A-D4  
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

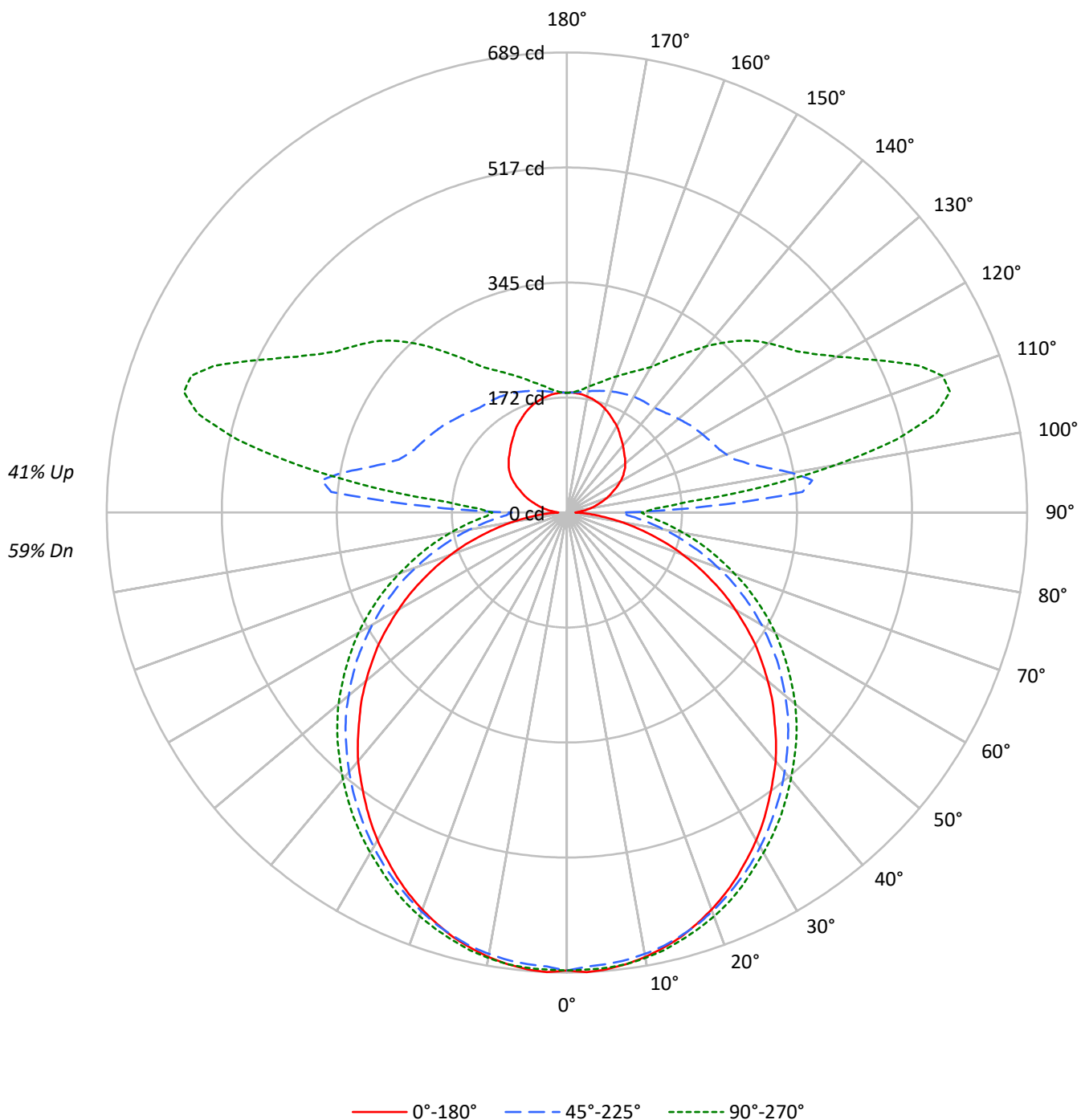
Lumens per Lamp: N/A  
Luminaire Lumens: 3649.6 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 33.3  
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 | 65 | 65 | 65 |
| 1   | 99  | 94  | 89  | 85  | 92  | 88  | 84  | 80  | 76 | 73 | 70 | 65 | 63 | 61 | 55 | 54 | 52 |
| 2   | 89  | 81  | 74  | 69  | 83  | 76  | 70  | 65  | 66 | 61 | 57 | 56 | 53 | 50 | 48 | 45 | 43 |
| 3   | 81  | 71  | 63  | 57  | 75  | 66  | 59  | 54  | 58 | 52 | 48 | 50 | 45 | 42 | 42 | 39 | 36 |
| 4   | 74  | 63  | 54  | 48  | 69  | 59  | 51  | 45  | 51 | 45 | 40 | 44 | 39 | 35 | 37 | 34 | 31 |
| 5   | 68  | 56  | 47  | 41  | 63  | 52  | 44  | 39  | 45 | 39 | 34 | 39 | 34 | 30 | 33 | 30 | 27 |
| 6   | 63  | 50  | 41  | 35  | 58  | 47  | 39  | 33  | 41 | 35 | 30 | 35 | 30 | 27 | 30 | 26 | 23 |
| 7   | 58  | 45  | 37  | 31  | 54  | 42  | 35  | 29  | 37 | 31 | 26 | 32 | 27 | 23 | 28 | 24 | 21 |
| 8   | 54  | 41  | 33  | 27  | 50  | 38  | 31  | 26  | 34 | 28 | 23 | 29 | 24 | 21 | 25 | 21 | 18 |
| 9   | 50  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 31 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 16 |
| 10  | 47  | 34  | 27  | 22  | 43  | 32  | 25  | 21  | 28 | 23 | 19 | 25 | 20 | 17 | 22 | 18 | 15 |

**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: 45°

Luminance: 4944 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.0   | 1.8       |
| 10°-20°   | 186.2  | 5.1       |
| 20°-30°   | 281.6  | 7.7       |
| 30°-40°   | 340.7  | 9.3       |
| 40°-50°   | 360.2  | 9.9       |
| 50°-60°   | 339.0  | 9.3       |
| 60°-70°   | 281.3  | 7.7       |
| 70°-80°   | 197.4  | 5.4       |
| 80°-90°   | 112.0  | 3.1       |
| 90°-100°  | 199.6  | 5.5       |
| 100°-110° | 320.3  | 8.8       |
| 110°-120° | 274.6  | 7.5       |
| 120°-130° | 221.6  | 6.1       |
| 130°-140° | 177.4  | 4.9       |
| 140°-150° | 131.0  | 3.6       |
| 150°-160° | 91.0   | 2.5       |
| 160°-170° | 53.5   | 1.5       |
| 170°-180° | 17.4   | 0.5       |
| 0°-30°    | 532.8  | 14.6      |
| 0°-40°    | 873.5  | 23.9      |
| 0°-60°    | 1572.7 | 43.1      |
| 0°-90°    | 2163.3 | 59.3      |
| 90°-120°  | 794.5  | 21.8      |
| 90°-150°  | 1324.5 | 36.3      |
| 90°-180°  | 1486.0 | 40.7      |
| 0°-180°   | 3649.6 | 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°  | 13  | 46    | 82  | 105   | 112 | 9    |
| 95°  | 22  | 72    | 354 | 230   | 180 | 21   |
| 105° | 48  | 82    | 282 | 568   | 572 | 52   |
| 115° | 77  | 103   | 242 | 449   | 535 | 77   |
| 125° | 104 | 123   | 227 | 373   | 421 | 93   |
| 135° | 122 | 145   | 210 | 319   | 364 | 94   |
| 145° | 139 | 159   | 202 | 257   | 285 | 88   |
| 155° | 158 | 170   | 197 | 223   | 232 | 73   |
| 165° | 172 | 177   | 189 | 200   | 203 | 49   |
| 175° | 179 | 180   | 181 | 183   | 183 | 17   |
| 180° | 180 | 180   | 180 | 180   | 180 |      |

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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°    | 12.7  | 45.8  | 82.4  | 105.4 | 111.9 |
| 92.5°  | 16.4  | 65.6  | 209.6 | 138.7 | 131.2 |
| 95°    | 21.6  | 72.0  | 354.2 | 229.9 | 180.5 |
| 97.5°  | 28.6  | 72.0  | 370.5 | 373.6 | 296.5 |
| 100°   | 35.3  | 74.2  | 341.9 | 481.2 | 407.9 |
| 102.5° | 42.4  | 77.6  | 308.0 | 546.4 | 505.6 |
| 105°   | 48.2  | 82.1  | 282.0 | 568.0 | 572.3 |
| 107.5° | 56.3  | 87.5  | 263.8 | 556.3 | 601.4 |
| 110°   | 63.6  | 92.2  | 254.0 | 523.5 | 598.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 70.6  | 97.6  | 246.9 | 484.3 | 572.9 |
| 115°   | 77.2  | 102.6 | 242.4 | 449.4 | 534.8 |
| 117.5° | 85.0  | 108.0 | 238.2 | 420.4 | 498.1 |
| 120°   | 92.0  | 112.2 | 234.3 | 399.4 | 466.7 |
| 122.5° | 99.0  | 117.2 | 230.2 | 384.8 | 441.0 |
| 125°   | 104.3 | 122.6 | 226.7 | 373.4 | 420.8 |
| 127.5° | 109.9 | 128.9 | 222.2 | 361.5 | 407.2 |
| 130°   | 113.7 | 134.3 | 218.0 | 349.2 | 394.1 |
| 132.5° | 118.3 | 139.6 | 214.6 | 335.0 | 380.7 |
| 135°   | 121.7 | 144.7 | 210.4 | 318.6 | 363.7 |
| 137.5° | 126.0 | 148.4 | 207.3 | 302.1 | 344.7 |
| 140°   | 130.6 | 152.5 | 204.6 | 285.8 | 325.0 |
| 142.5° | 134.8 | 156.2 | 203.1 | 271.4 | 304.2 |
| 145°   | 139.4 | 158.7 | 202.4 | 257.1 | 285.2 |
| 147.5° | 144.7 | 161.9 | 201.4 | 244.7 | 267.2 |
| 150°   | 149.6 | 164.8 | 200.3 | 235.9 | 251.8 |
| 152.5° | 153.4 | 167.7 | 198.5 | 229.2 | 241.2 |
| 155°   | 157.6 | 170.2 | 196.8 | 222.9 | 232.4 |
| 157.5° | 161.9 | 172.4 | 195.0 | 216.8 | 224.3 |
| 160°   | 165.7 | 174.4 | 192.9 | 210.9 | 216.9 |
| 162.5° | 169.3 | 176.0 | 190.8 | 205.0 | 209.8 |
| 165°   | 171.7 | 177.0 | 188.7 | 199.8 | 202.8 |
| 167.5° | 174.6 | 177.9 | 186.5 | 195.2 | 197.1 |
| 170°   | 176.3 | 178.6 | 184.4 | 190.6 | 191.8 |
| 172.5° | 178.1 | 179.2 | 182.3 | 186.6 | 186.5 |
| 175°   | 179.1 | 179.5 | 180.9 | 183.4 | 182.7 |
| 177.5° | 179.8 | 179.5 | 179.8 | 181.1 | 179.8 |
| 180°   | 179.5 | 179.5 | 179.5 | 179.5 | 179.5 |

(END OF REPORT)