

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: P1008866

Luminaire Tested: S122DIP-B290D530UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008866  
REPORT IS A COMBINATION OF REPORTS P983966 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B290D530UB30-4F0-XX-W2A-D1  
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

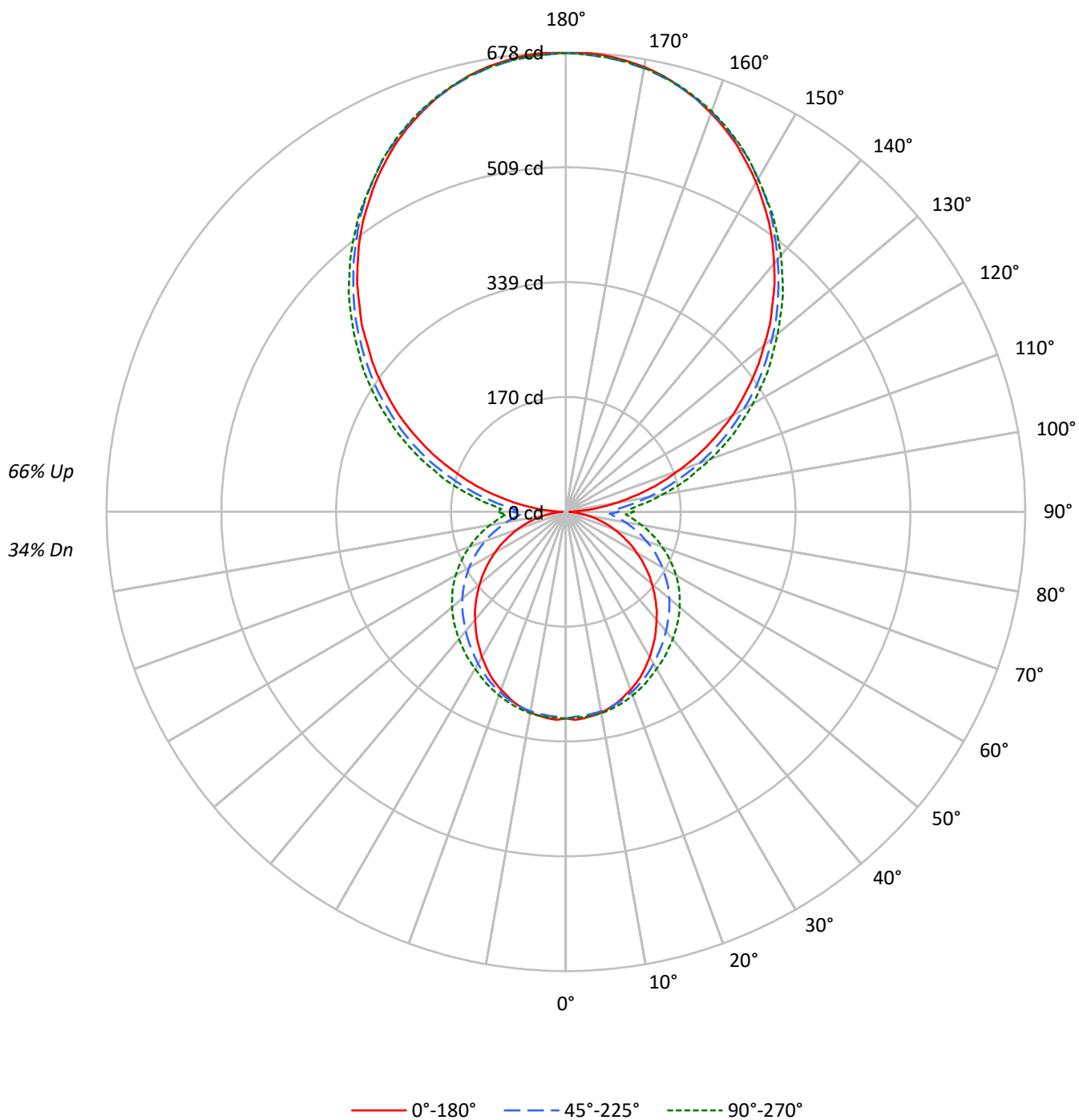
Lumens per Lamp: N/A  
Luminaire Lumens: 3059.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 28.4  
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  | 88  | 84  | 81  | 84 | 80 | 76 | 73 | 64 | 61 | 59 |  | 49 | 47 | 45 |  | 35 |
| 2   | 84  | 77  | 70  | 65  | 76 | 69 | 64 | 59 | 55 | 51 | 48 |  | 42 | 39 | 37 |  | 30 |
| 3   | 77  | 67  | 59  | 54  | 69 | 60 | 54 | 49 | 48 | 44 | 40 |  | 37 | 34 | 31 |  | 26 |
| 4   | 70  | 59  | 51  | 45  | 63 | 53 | 46 | 41 | 43 | 37 | 33 |  | 33 | 29 | 26 |  | 23 |
| 5   | 64  | 52  | 44  | 38  | 57 | 47 | 40 | 35 | 38 | 33 | 29 |  | 29 | 25 | 22 |  | 21 |
| 6   | 59  | 47  | 39  | 33  | 53 | 42 | 35 | 30 | 34 | 29 | 25 |  | 26 | 22 | 19 |  | 19 |
| 7   | 54  | 42  | 34  | 28  | 49 | 38 | 31 | 26 | 31 | 25 | 22 |  | 24 | 20 | 17 |  | 17 |
| 8   | 50  | 38  | 30  | 25  | 45 | 34 | 28 | 23 | 28 | 23 | 19 |  | 22 | 18 | 15 |  | 16 |
| 9   | 47  | 34  | 27  | 22  | 42 | 31 | 25 | 20 | 25 | 20 | 17 |  | 20 | 16 | 13 |  | 14 |
| 10  | 43  | 31  | 24  | 20  | 39 | 29 | 22 | 18 | 23 | 18 | 15 |  | 18 | 15 | 12 |  | 13 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4830 | 4830 | 4830 |
| 5°  | 4850 | 4623 | 4597 |
| 10° | 4818 | 4463 | 4398 |
| 15° | 4750 | 4297 | 4193 |
| 20° | 4664 | 4123 | 4000 |
| 25° | 4580 | 3956 | 3824 |
| 30° | 4461 | 3788 | 3650 |
| 35° | 4341 | 3624 | 3522 |
| 40° | 4214 | 3483 | 3395 |
| 45° | 4095 | 3356 | 3284 |
| 50° | 3965 | 3237 | 3175 |
| 55° | 3829 | 3112 | 3064 |
| 60° | 3663 | 2981 | 2947 |
| 65° | 3487 | 2832 | 2812 |
| 70° | 3291 | 2670 | 2668 |
| 75° | 3043 | 2509 | 2530 |
| 80° | 2651 | 2343 | 2388 |
| 85° | 2246 | 2183 | 2267 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4095 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.9   | 0.9       |
| 10°-20°   | 82.9   | 2.7       |
| 20°-30°   | 125.7  | 4.1       |
| 30°-40°   | 153.0  | 5.0       |
| 40°-50°   | 164.7  | 5.4       |
| 50°-60°   | 159.9  | 5.2       |
| 60°-70°   | 139.6  | 4.6       |
| 70°-80°   | 107.5  | 3.5       |
| 80°-90°   | 73.9   | 2.4       |
| 90°-100°  | 91.5   | 3.0       |
| 100°-110° | 169.4  | 5.5       |
| 110°-120° | 251.8  | 8.2       |
| 120°-130° | 313.0  | 10.2      |
| 130°-140° | 341.9  | 11.2      |
| 140°-150° | 330.8  | 10.8      |
| 150°-160° | 276.7  | 9.0       |
| 160°-170° | 183.5  | 6.0       |
| 170°-180° | 64.1   | 2.1       |
| 0°-30°    | 237.5  | 7.8       |
| 0°-40°    | 390.6  | 12.8      |
| 0°-60°    | 715.1  | 23.4      |
| 0°-90°    | 1036.2 | 33.9      |
| 90°-120°  | 512.8  | 16.8      |
| 90°-150°  | 1498.5 | 49.0      |
| 90°-180°  | 2023.0 | 66.1      |
| 0°-180°   | 3059.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 305 | 305   | 305 | 305   | 305 |      |
| 5°   | 306 | 305   | 302 | 305   | 304 | 29   |
| 15°  | 292 | 293   | 293 | 297   | 296 | 82   |
| 25°  | 265 | 268   | 272 | 278   | 279 | 122  |
| 35°  | 229 | 236   | 244 | 254   | 257 | 143  |
| 45°  | 188 | 199   | 215 | 229   | 233 | 145  |
| 55°  | 144 | 160   | 183 | 198   | 204 | 129  |
| 65°  | 98  | 120   | 146 | 164   | 170 | 98   |
| 75°  | 54  | 79    | 107 | 126   | 132 | 58   |
| 85°  | 16  | 43    | 72  | 90    | 96  | 17   |
| 90°  | 5   | 38    | 78  | 95    | 101 | 5    |
| 95°  | 33  | 60    | 87  | 104   | 108 | 36   |
| 105° | 125 | 140   | 164 | 180   | 185 | 132  |
| 115° | 230 | 239   | 257 | 270   | 273 | 228  |
| 125° | 334 | 339   | 351 | 361   | 365 | 298  |
| 135° | 431 | 437   | 443 | 451   | 453 | 333  |
| 145° | 522 | 526   | 530 | 533   | 533 | 326  |
| 155° | 597 | 599   | 600 | 603   | 602 | 275  |
| 165° | 650 | 649   | 649 | 653   | 650 | 183  |
| 175° | 676 | 674   | 673 | 677   | 674 | 64   |
| 180° | 677 | 677   | 677 | 677   | 677 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 305.1 | 305.1 | 305.1 | 305.1 | 305.1 |
| 2.5°   | 307.3 | 305.9 | 302.8 | 305.1 | 304.2 |
| 5°     | 305.9 | 304.6 | 302.0 | 304.6 | 304.2 |
| 7.5°   | 303.7 | 302.8 | 300.6 | 303.7 | 303.3 |
| 10°    | 301.1 | 300.2 | 298.9 | 302.4 | 302.0 |
| 12.5°  | 296.7 | 297.1 | 296.2 | 299.8 | 299.3 |
| 15°    | 291.8 | 292.7 | 292.7 | 296.7 | 296.2 |
| 17.5°  | 285.6 | 287.4 | 288.7 | 292.7 | 292.7 |
| 20°    | 279.4 | 281.6 | 283.4 | 288.3 | 288.3 |
| 22.5°  | 272.8 | 275.4 | 278.1 | 283.0 | 283.8 |
| 25°    | 265.3 | 268.4 | 272.3 | 277.6 | 279.0 |
| 27.5°  | 256.4 | 261.3 | 265.7 | 272.3 | 273.2 |
| 30°    | 247.6 | 253.3 | 259.1 | 266.2 | 267.5 |
| 32.5°  | 237.9 | 244.5 | 251.6 | 260.0 | 262.6 |
| 35°    | 228.6 | 236.1 | 244.5 | 254.2 | 257.3 |
| 37.5°  | 218.4 | 226.8 | 237.4 | 248.0 | 251.1 |
| 40°    | 208.2 | 218.0 | 229.9 | 241.4 | 245.4 |
| 42.5°  | 198.5 | 208.2 | 222.4 | 235.2 | 239.2 |
| 45°    | 187.5 | 199.4 | 214.9 | 228.6 | 233.0 |
| 47.5°  | 176.8 | 189.7 | 207.4 | 221.5 | 226.4 |
| 50°    | 165.8 | 179.5 | 199.4 | 214.4 | 219.3 |
| 52.5°  | 155.2 | 169.8 | 191.0 | 206.5 | 211.8 |
| 55°    | 143.7 | 159.6 | 182.6 | 198.5 | 204.3 |
| 57.5°  | 132.6 | 150.3 | 173.3 | 190.6 | 196.3 |
| 60°    | 120.7 | 139.7 | 164.9 | 181.7 | 187.9 |
| 62.5°  | 110.1 | 130.0 | 155.2 | 173.3 | 179.1 |
| 65°    | 98.1  | 119.8 | 145.9 | 164.0 | 169.8 |
| 67.5°  | 87.5  | 110.1 | 136.6 | 154.7 | 160.9 |
| 70°    | 76.0  | 99.0  | 126.4 | 145.5 | 150.8 |
| 72.5°  | 65.4  | 89.3  | 117.2 | 135.7 | 142.4 |
| 75°    | 54.4  | 79.1  | 107.4 | 126.4 | 132.2 |
| 77.5°  | 43.8  | 69.4  | 98.1  | 117.2 | 123.4 |
| 80°    | 33.2  | 60.1  | 88.9  | 107.4 | 113.6 |
| 82.5°  | 24.3  | 50.8  | 80.0  | 98.6  | 104.3 |
| 85°    | 15.9  | 43.3  | 71.6  | 90.2  | 96.4  |
| 87.5°  | 9.7   | 36.3  | 64.5  | 82.7  | 88.4  |
| 90°    | 5.0   | 37.5  | 78.4  | 94.9  | 100.7 |
| 92.5°  | 16.6  | 44.5  | 72.1  | 89.9  | 95.2  |
| 95°    | 33.2  | 59.7  | 87.4  | 104.2 | 108.3 |
| 97.5°  | 52.8  | 77.0  | 104.8 | 121.2 | 126.5 |
| 100°   | 75.7  | 96.6  | 123.1 | 139.5 | 143.7 |
| 102.5° | 99.3  | 117.2 | 143.4 | 159.9 | 164.2 |
| 105°   | 125.1 | 139.6 | 163.7 | 180.4 | 185.3 |
| 107.5° | 151.3 | 164.2 | 186.3 | 202.0 | 203.9 |
| 110°   | 176.1 | 188.3 | 210.0 | 224.1 | 227.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 203.5 | 213.9 | 233.8 | 246.1 | 249.9 |
| 115°   | 230.4 | 238.6 | 257.3 | 270.1 | 273.3 |
| 117.5° | 256.7 | 264.9 | 280.5 | 292.1 | 294.8 |
| 120°   | 283.6 | 289.9 | 303.1 | 315.5 | 318.6 |
| 122.5° | 308.1 | 314.4 | 327.8 | 338.1 | 340.8 |
| 125°   | 333.5 | 338.6 | 351.0 | 361.3 | 364.6 |
| 127.5° | 358.6 | 364.4 | 374.1 | 382.8 | 385.1 |
| 130°   | 382.0 | 389.0 | 397.1 | 406.6 | 407.9 |
| 132.5° | 408.3 | 413.5 | 420.8 | 428.0 | 429.9 |
| 135°   | 430.7 | 437.0 | 442.6 | 451.2 | 453.1 |
| 137.5° | 455.8 | 460.9 | 464.4 | 472.2 | 472.9 |
| 140°   | 478.1 | 482.8 | 486.6 | 493.7 | 494.0 |
| 142.5° | 500.9 | 505.7 | 507.4 | 513.3 | 513.2 |
| 145°   | 522.3 | 526.3 | 529.7 | 533.0 | 532.9 |
| 147.5° | 541.7 | 546.8 | 549.1 | 550.7 | 549.8 |
| 150°   | 561.7 | 565.1 | 567.4 | 569.1 | 567.4 |
| 152.5° | 579.4 | 582.8 | 585.7 | 588.0 | 585.7 |
| 155°   | 597.1 | 598.8 | 600.5 | 603.4 | 601.7 |
| 157.5° | 612.5 | 613.7 | 614.8 | 618.8 | 616.0 |
| 160°   | 626.3 | 627.4 | 628.0 | 631.4 | 629.1 |
| 162.5° | 638.8 | 638.8 | 639.4 | 643.4 | 640.5 |
| 165°   | 649.7 | 649.1 | 649.1 | 653.1 | 650.3 |
| 167.5° | 659.4 | 657.7 | 657.7 | 661.7 | 658.8 |
| 170°   | 666.8 | 665.1 | 664.5 | 668.5 | 665.1 |
| 172.5° | 672.0 | 670.3 | 669.7 | 673.7 | 670.3 |
| 175°   | 676.0 | 674.3 | 673.1 | 677.1 | 673.7 |
| 177.5° | 678.3 | 676.5 | 675.4 | 678.8 | 675.4 |
| 180°   | 677.1 | 677.1 | 677.1 | 677.1 | 677.1 |

(END OF REPORT)