

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: P1009275

Luminaire Tested: S122DIP-B675D330UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009275  
REPORT IS A COMBINATION OF REPORTS P984516 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B675D330UB35-4F0-XX-W2A-D4  
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

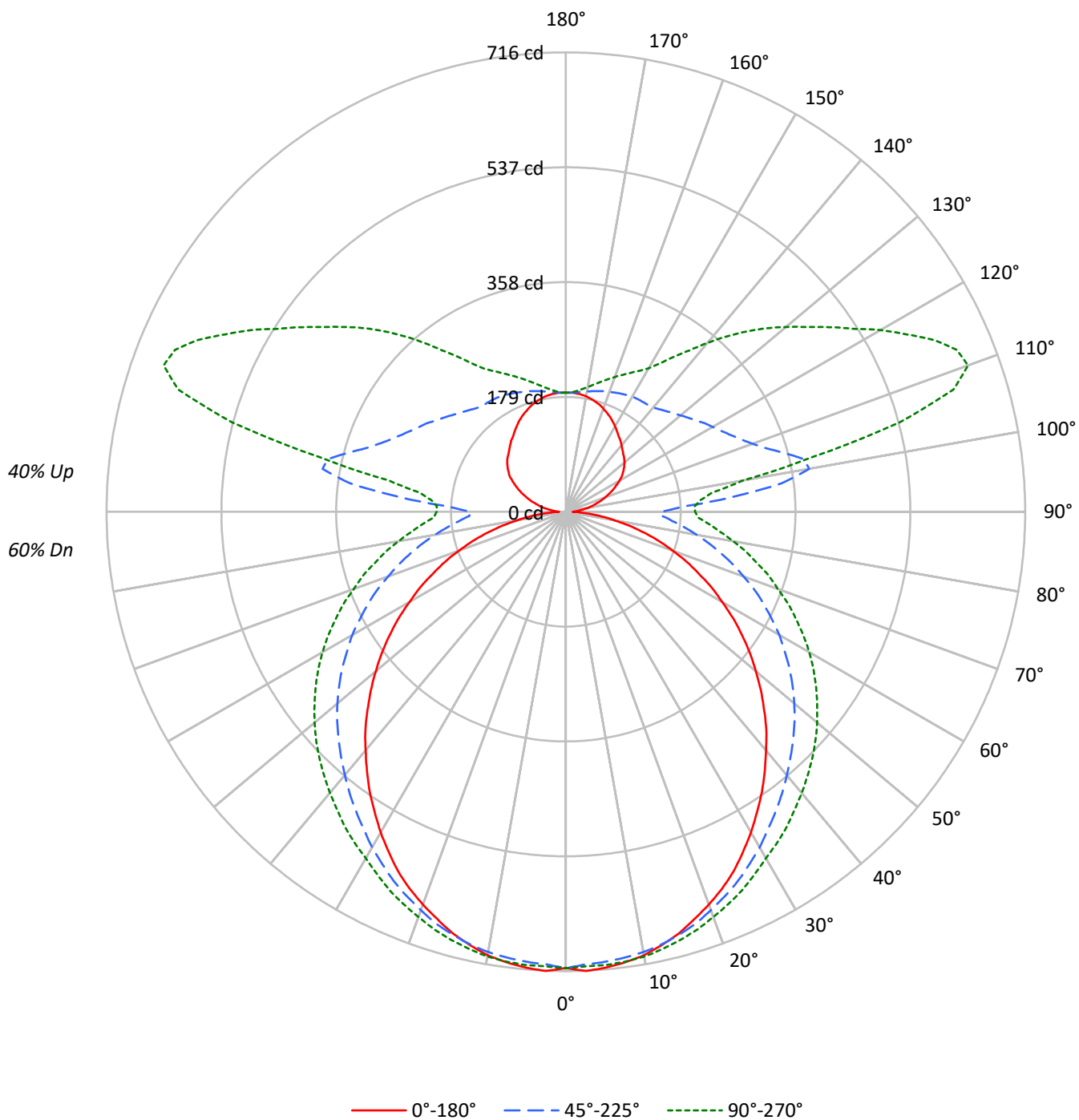
Lumens per Lamp: N/A  
Luminaire Lumens: 4009.4 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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

TEST NUMBER: P1009275

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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   | 110 | 110 | 110 | 110 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | 77 | 77 | 77 | 65 | 65 | 65 |
| 1   | 98  | 93  | 88  | 84  | 91  | 87  | 83  | 79  | 75 | 72 | 69 | 65 | 62 | 60 | 55 | 53 | 52 |
| 2   | 89  | 80  | 73  | 67  | 82  | 75  | 69  | 64  | 65 | 60 | 56 | 56 | 52 | 49 | 47 | 45 | 42 |
| 3   | 81  | 70  | 62  | 55  | 75  | 65  | 58  | 52  | 57 | 51 | 46 | 49 | 44 | 41 | 41 | 38 | 35 |
| 4   | 73  | 62  | 53  | 46  | 68  | 58  | 50  | 44  | 50 | 44 | 39 | 43 | 38 | 34 | 37 | 33 | 30 |
| 5   | 67  | 55  | 46  | 39  | 62  | 51  | 43  | 37  | 45 | 38 | 33 | 39 | 33 | 29 | 33 | 29 | 26 |
| 6   | 62  | 49  | 40  | 34  | 57  | 46  | 38  | 32  | 40 | 34 | 29 | 35 | 30 | 26 | 30 | 26 | 22 |
| 7   | 57  | 44  | 36  | 30  | 53  | 41  | 34  | 28  | 36 | 30 | 25 | 32 | 26 | 23 | 27 | 23 | 20 |
| 8   | 53  | 40  | 32  | 26  | 49  | 38  | 30  | 25  | 33 | 27 | 22 | 29 | 24 | 20 | 25 | 21 | 18 |
| 9   | 49  | 37  | 29  | 23  | 46  | 34  | 27  | 22  | 30 | 24 | 20 | 26 | 21 | 18 | 23 | 19 | 16 |
| 10  | 46  | 33  | 26  | 21  | 43  | 32  | 25  | 20  | 28 | 22 | 18 | 24 | 20 | 16 | 21 | 17 | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11259 | 11259 | 11259 |
| 5°  | 11309 | 10779 | 10717 |
| 10° | 11234 | 10404 | 10254 |
| 15° | 11076 | 10019 | 9778  |
| 20° | 10876 | 9614  | 9325  |
| 25° | 10678 | 9225  | 8916  |
| 30° | 10402 | 8831  | 8510  |
| 35° | 10121 | 8451  | 8212  |
| 40° | 9826  | 8121  | 7915  |
| 45° | 9546  | 7823  | 7658  |
| 50° | 9245  | 7548  | 7402  |
| 55° | 8926  | 7255  | 7142  |
| 60° | 8539  | 6952  | 6870  |
| 65° | 8134  | 6603  | 6555  |
| 70° | 7678  | 6226  | 6218  |
| 75° | 7093  | 5851  | 5899  |
| 80° | 6171  | 5460  | 5569  |
| 85° | 5241  | 5092  | 5284  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9546 cd/sqm

TEST NUMBER: P1009275

CATALOG NUMBER: S122DIP-B675D330UB35-4F0-XX-W2A-D4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.4   | 1.7       |
| 10°-20°   | 193.4  | 4.8       |
| 20°-30°   | 293.0  | 7.3       |
| 30°-40°   | 356.8  | 8.9       |
| 40°-50°   | 383.9  | 9.6       |
| 50°-60°   | 372.8  | 9.3       |
| 60°-70°   | 325.6  | 8.1       |
| 70°-80°   | 250.6  | 6.2       |
| 80°-90°   | 169.0  | 4.2       |
| 90°-100°  | 191.0  | 4.8       |
| 100°-110° | 339.0  | 8.5       |
| 110°-120° | 323.2  | 8.1       |
| 120°-130° | 251.0  | 6.3       |
| 130°-140° | 189.8  | 4.7       |
| 140°-150° | 135.7  | 3.4       |
| 150°-160° | 93.9   | 2.3       |
| 160°-170° | 55.3   | 1.4       |
| 170°-180° | 18.0   | 0.4       |
| 0°-30°    | 553.8  | 13.8      |
| 0°-40°    | 910.7  | 22.7      |
| 0°-60°    | 1667.4 | 41.6      |
| 0°-90°    | 2412.6 | 60.2      |
| 90°-120°  | 853.3  | 21.3      |
| 90°-150°  | 1429.8 | 35.7      |
| 90°-180°  | 1597.0 | 39.8      |
| 0°-180°   | 4009.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 711 | 711   | 711 | 711   | 711 |      |
| 5°   | 713 | 710   | 704 | 710   | 709 | 68   |
| 15°  | 680 | 682   | 682 | 692   | 691 | 192  |
| 25°  | 618 | 626   | 635 | 647   | 650 | 284  |
| 35°  | 533 | 550   | 570 | 593   | 600 | 333  |
| 45°  | 437 | 465   | 501 | 533   | 543 | 337  |
| 55°  | 335 | 372   | 426 | 463   | 476 | 300  |
| 65°  | 229 | 279   | 340 | 382   | 396 | 227  |
| 75°  | 127 | 184   | 250 | 295   | 308 | 134  |
| 85°  | 37  | 101   | 167 | 210   | 225 | 39   |
| 90°  | 11  | 75    | 148 | 189   | 202 | 8    |
| 95°  | 21  | 87    | 258 | 211   | 211 | 19   |
| 105° | 49  | 101   | 353 | 598   | 538 | 52   |
| 115° | 81  | 112   | 283 | 550   | 634 | 80   |
| 125° | 109 | 129   | 248 | 433   | 502 | 97   |
| 135° | 127 | 151   | 222 | 344   | 397 | 98   |
| 145° | 144 | 165   | 209 | 266   | 296 | 90   |
| 155° | 163 | 176   | 203 | 230   | 239 | 75   |
| 165° | 178 | 183   | 195 | 206   | 210 | 50   |
| 175° | 185 | 185   | 187 | 189   | 189 | 18   |
| 180° | 186 | 186   | 186 | 186   | 186 |      |

TEST NUMBER: P1009275

CATALOG NUMBER: S122DIP-B675D330UB35-4F0-XX-W2A-D4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 |
| 2.5°   | 716.4 | 713.3 | 706.1 | 711.3 | 709.2 |
| 5°     | 713.3 | 710.3 | 704.1 | 710.3 | 709.2 |
| 7.5°   | 708.2 | 706.1 | 701.0 | 708.2 | 707.2 |
| 10°    | 702.0 | 699.9 | 696.8 | 705.1 | 704.1 |
| 12.5°  | 691.7 | 692.7 | 690.7 | 698.9 | 697.9 |
| 15°    | 680.4 | 682.4 | 682.4 | 691.7 | 690.7 |
| 17.5°  | 665.9 | 670.0 | 673.1 | 682.4 | 682.4 |
| 20°    | 651.5 | 656.6 | 660.8 | 672.1 | 672.1 |
| 22.5°  | 636.0 | 642.2 | 648.4 | 659.7 | 661.8 |
| 25°    | 618.5 | 625.7 | 635.0 | 647.4 | 650.5 |
| 27.5°  | 597.9 | 609.2 | 619.5 | 635.0 | 637.1 |
| 30°    | 577.3 | 590.7 | 604.1 | 620.6 | 623.7 |
| 32.5°  | 554.6 | 570.1 | 586.5 | 606.1 | 612.3 |
| 35°    | 532.9 | 550.5 | 570.1 | 592.7 | 600.0 |
| 37.5°  | 509.2 | 528.8 | 553.6 | 578.3 | 585.5 |
| 40°    | 485.5 | 508.2 | 536.0 | 562.8 | 572.1 |
| 42.5°  | 462.8 | 485.5 | 518.5 | 548.4 | 557.7 |
| 45°    | 437.1 | 464.9 | 501.0 | 532.9 | 543.3 |
| 47.5°  | 412.3 | 442.2 | 483.5 | 516.5 | 527.8 |
| 50°    | 386.6 | 418.5 | 464.9 | 500.0 | 511.3 |
| 52.5°  | 361.8 | 395.8 | 445.3 | 481.4 | 493.8 |
| 55°    | 335.0 | 372.1 | 425.7 | 462.8 | 476.2 |
| 57.5°  | 309.3 | 350.5 | 404.1 | 444.3 | 457.7 |
| 60°    | 281.4 | 325.7 | 384.5 | 423.7 | 438.1 |
| 62.5°  | 256.7 | 303.1 | 361.8 | 404.1 | 417.5 |
| 65°    | 228.8 | 279.4 | 340.2 | 382.4 | 395.8 |
| 67.5°  | 204.1 | 256.7 | 318.5 | 360.8 | 375.2 |
| 70°    | 177.3 | 230.9 | 294.8 | 339.1 | 351.5 |
| 72.5°  | 152.6 | 208.2 | 273.2 | 316.5 | 331.9 |
| 75°    | 126.8 | 184.5 | 250.5 | 294.8 | 308.2 |
| 77.5°  | 102.1 | 161.8 | 228.8 | 273.2 | 287.6 |
| 80°    | 77.3  | 140.2 | 207.2 | 250.5 | 264.9 |
| 82.5°  | 56.7  | 118.5 | 186.6 | 229.9 | 243.3 |
| 85°    | 37.1  | 101.0 | 167.0 | 210.3 | 224.7 |
| 87.5°  | 22.7  | 84.5  | 150.5 | 192.8 | 206.2 |
| 90°    | 10.7  | 74.9  | 148.2 | 188.9 | 201.5 |
| 92.5°  | 14.7  | 80.8  | 181.8 | 192.4 | 201.2 |
| 95°    | 20.7  | 87.4  | 258.4 | 210.6 | 210.8 |
| 97.5°  | 25.8  | 92.0  | 339.4 | 255.5 | 230.0 |
| 100°   | 34.7  | 95.0  | 385.1 | 352.4 | 280.4 |
| 102.5° | 41.9  | 98.0  | 379.7 | 490.0 | 393.5 |
| 105°   | 48.8  | 100.7 | 353.2 | 597.6 | 538.4 |
| 107.5° | 57.3  | 103.4 | 328.1 | 631.3 | 633.3 |
| 110°   | 64.8  | 106.3 | 309.8 | 616.2 | 667.2 |

TEST NUMBER: P1009275

CATALOG NUMBER: S122DIP-B675D330UB35-4F0-XX-W2A-D4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 72.6  | 109.8 | 294.7 | 586.0 | 659.3 |
| 115°   | 80.9  | 112.4 | 283.2 | 549.6 | 633.5 |
| 117.5° | 88.4  | 115.9 | 273.1 | 515.4 | 598.9 |
| 120°   | 96.3  | 119.3 | 264.4 | 483.0 | 566.4 |
| 122.5° | 103.8 | 123.9 | 256.9 | 457.1 | 530.6 |
| 125°   | 109.2 | 128.8 | 247.8 | 432.9 | 501.7 |
| 127.5° | 114.6 | 134.4 | 240.6 | 410.2 | 473.0 |
| 130°   | 119.2 | 140.2 | 233.7 | 388.3 | 448.0 |
| 132.5° | 123.5 | 145.9 | 227.1 | 366.0 | 423.3 |
| 135°   | 126.7 | 150.9 | 221.6 | 344.0 | 397.1 |
| 137.5° | 130.6 | 155.2 | 216.5 | 321.8 | 370.7 |
| 140°   | 135.2 | 158.2 | 212.0 | 301.4 | 343.5 |
| 142.5° | 139.9 | 161.4 | 209.9 | 282.4 | 317.4 |
| 145°   | 143.5 | 165.0 | 209.2 | 265.9 | 295.5 |
| 147.5° | 148.5 | 167.8 | 208.1 | 251.6 | 274.4 |
| 150°   | 153.5 | 170.6 | 207.1 | 242.8 | 258.1 |
| 152.5° | 158.5 | 173.5 | 205.3 | 236.2 | 247.8 |
| 155°   | 163.1 | 176.2 | 203.1 | 229.8 | 238.8 |
| 157.5° | 167.1 | 178.3 | 201.0 | 223.7 | 231.0 |
| 160°   | 171.0 | 180.4 | 198.8 | 217.6 | 223.5 |
| 162.5° | 174.9 | 182.0 | 197.1 | 211.9 | 216.3 |
| 165°   | 177.8 | 183.1 | 194.6 | 206.4 | 209.6 |
| 167.5° | 180.3 | 184.2 | 192.4 | 201.4 | 203.1 |
| 170°   | 182.8 | 184.8 | 190.6 | 196.8 | 197.4 |
| 172.5° | 184.2 | 185.2 | 188.5 | 192.6 | 192.8 |
| 175°   | 185.3 | 185.4 | 187.1 | 189.4 | 188.9 |
| 177.5° | 186.0 | 185.6 | 185.6 | 187.1 | 186.0 |
| 180°   | 185.6 | 185.6 | 185.6 | 185.6 | 185.6 |

(END OF REPORT)