

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: P1027656

Luminaire Tested: S125DIP-B1270D375UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027656  
REPORT IS A COMBINATION OF REPORTS P1001694 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1270D375UB50-4F0-XX-W2A-D1  
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

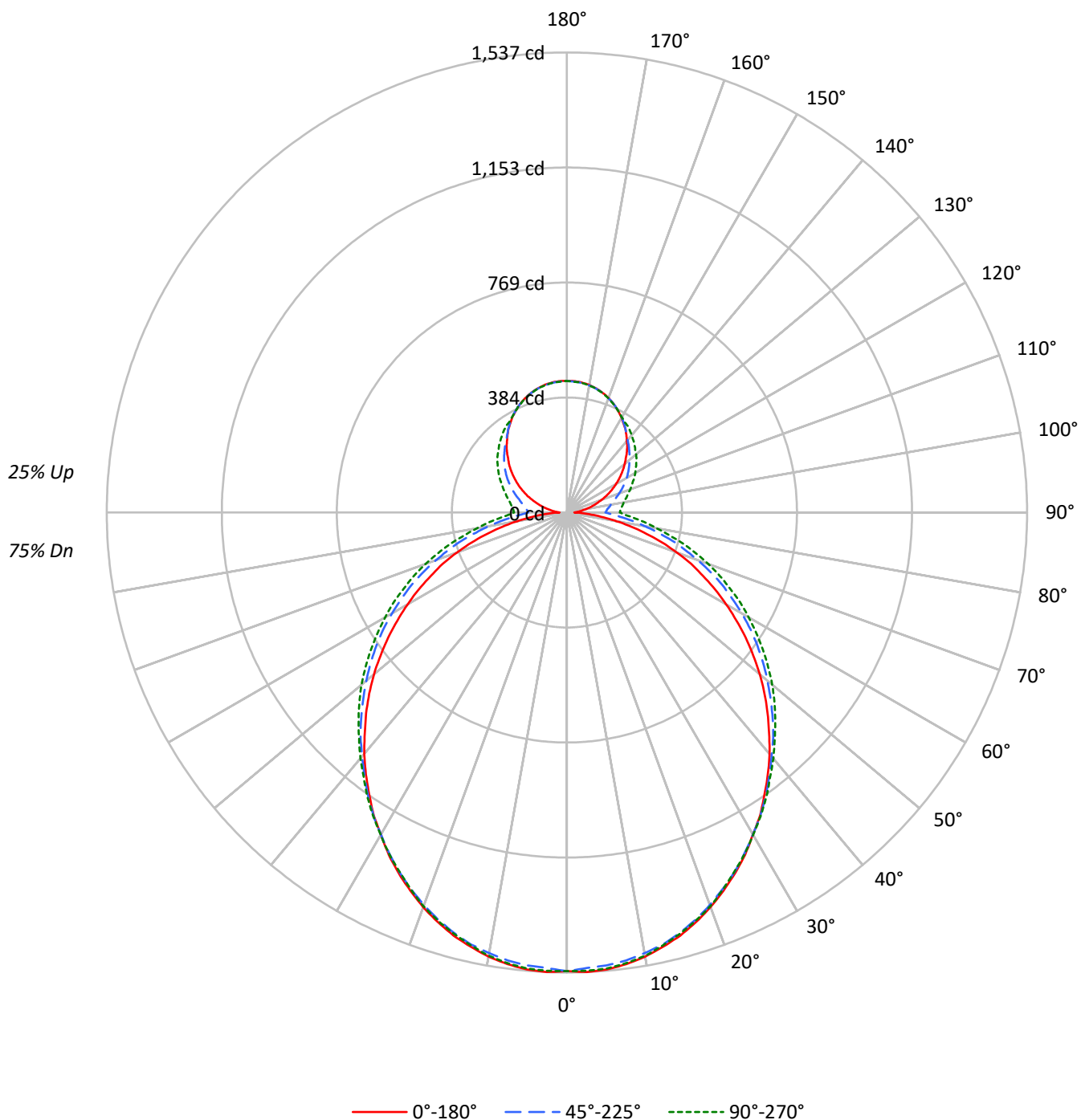
Lumens per Lamp: N/A  
Luminaire Lumens: 5974.0 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 70.6  
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   | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 97 | 97 | 97 | 87 | 87 | 87 | 79 | 79 | 79 |
| 1   | 102 | 97  | 93  | 89  | 97  | 92  | 89  | 85  | 84 | 80 | 78 | 75 | 73 | 71 | 68 | 66 | 64 |
| 2   | 93  | 84  | 77  | 72  | 88  | 80  | 74  | 69  | 73 | 68 | 63 | 66 | 62 | 58 | 59 | 56 | 53 |
| 3   | 84  | 74  | 66  | 59  | 80  | 70  | 63  | 57  | 64 | 58 | 53 | 58 | 53 | 49 | 52 | 48 | 45 |
| 4   | 77  | 65  | 57  | 50  | 73  | 62  | 54  | 48  | 57 | 50 | 45 | 51 | 46 | 42 | 46 | 42 | 38 |
| 5   | 71  | 58  | 49  | 43  | 67  | 56  | 47  | 41  | 51 | 44 | 39 | 46 | 40 | 36 | 42 | 37 | 33 |
| 6   | 65  | 52  | 43  | 37  | 62  | 50  | 42  | 36  | 46 | 39 | 34 | 42 | 36 | 32 | 38 | 33 | 29 |
| 7   | 60  | 47  | 39  | 33  | 57  | 45  | 37  | 32  | 41 | 35 | 30 | 38 | 32 | 28 | 34 | 30 | 26 |
| 8   | 56  | 43  | 35  | 29  | 53  | 41  | 34  | 28  | 38 | 31 | 27 | 35 | 29 | 25 | 32 | 27 | 23 |
| 9   | 52  | 39  | 31  | 26  | 50  | 38  | 30  | 25  | 35 | 28 | 24 | 32 | 26 | 22 | 29 | 24 | 21 |
| 10  | 49  | 36  | 28  | 23  | 47  | 35  | 28  | 23  | 32 | 26 | 22 | 30 | 24 | 20 | 27 | 22 | 19 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9818 | 9818 | 9818 |
| 5°  | 9834 | 9612 | 9636 |
| 10° | 9760 | 9416 | 9389 |
| 15° | 9642 | 9188 | 9086 |
| 20° | 9481 | 8913 | 8786 |
| 25° | 9291 | 8619 | 8421 |
| 30° | 9061 | 8300 | 8091 |
| 35° | 8846 | 8005 | 7785 |
| 40° | 8627 | 7695 | 7478 |
| 45° | 8380 | 7426 | 7201 |
| 50° | 8143 | 7133 | 6952 |
| 55° | 7858 | 6855 | 6662 |
| 60° | 7546 | 6537 | 6365 |
| 65° | 7220 | 6203 | 6031 |
| 70° | 6847 | 5755 | 5683 |
| 75° | 6258 | 5313 | 5258 |
| 80° | 5487 | 4774 | 4788 |
| 85° | 4723 | 4345 | 4541 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8380 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.0  | 2.4       |
| 10°-20°   | 411.6  | 6.9       |
| 20°-30°   | 612.1  | 10.2      |
| 30°-40°   | 724.9  | 12.1      |
| 40°-50°   | 749.5  | 12.5      |
| 50°-60°   | 690.4  | 11.6      |
| 60°-70°   | 558.1  | 9.3       |
| 70°-80°   | 373.4  | 6.3       |
| 80°-90°   | 193.7  | 3.2       |
| 90°-100°  | 137.9  | 2.3       |
| 100°-110° | 167.0  | 2.8       |
| 110°-120° | 200.8  | 3.4       |
| 120°-130° | 224.2  | 3.8       |
| 130°-140° | 230.5  | 3.9       |
| 140°-150° | 215.5  | 3.6       |
| 150°-160° | 178.8  | 3.0       |
| 160°-170° | 118.9  | 2.0       |
| 170°-180° | 41.6   | 0.7       |
| 0°-30°    | 1168.8 | 19.6      |
| 0°-40°    | 1893.7 | 31.7      |
| 0°-60°    | 3333.6 | 55.8      |
| 0°-90°    | 4458.8 | 74.6      |
| 90°-120°  | 505.7  | 8.5       |
| 90°-150°  | 1175.9 | 19.7      |
| 90°-180°  | 1515.0 | 25.4      |
| 0°-180°   | 5974.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1532 | 1532  | 1532 | 1532  | 1532 |      |
| 5°   | 1532 | 1529  | 1519 | 1531  | 1529 | 145  |
| 15°  | 1463 | 1465  | 1454 | 1463  | 1457 | 412  |
| 25°  | 1330 | 1334  | 1325 | 1331  | 1324 | 612  |
| 35°  | 1151 | 1161  | 1157 | 1161  | 1161 | 720  |
| 45°  | 948  | 964   | 972  | 982   | 984  | 731  |
| 55°  | 729  | 753   | 777  | 793   | 799  | 651  |
| 65°  | 502  | 536   | 572  | 595   | 601  | 498  |
| 75°  | 276  | 316   | 364  | 394   | 401  | 293  |
| 85°  | 83   | 132   | 185  | 218   | 230  | 86   |
| 90°  | 24   | 75    | 129  | 165   | 176  | 18   |
| 95°  | 42   | 82    | 136  | 171   | 183  | 39   |
| 105° | 92   | 117   | 164  | 196   | 208  | 97   |
| 115° | 156  | 168   | 208  | 235   | 243  | 155  |
| 125° | 221  | 222   | 252  | 275   | 282  | 198  |
| 135° | 283  | 283   | 294  | 314   | 320  | 218  |
| 145° | 340  | 340   | 341  | 349   | 354  | 212  |
| 155° | 388  | 388   | 388  | 390   | 388  | 179  |
| 165° | 422  | 421   | 421  | 423   | 421  | 119  |
| 175° | 438  | 437   | 437  | 439   | 437  | 42   |
| 180° | 439  | 439   | 439  | 439   | 439  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1532.4 | 1532.4 | 1532.4 | 1532.4 | 1532.4 |
| 2.5°   | 1536.9 | 1533.9 | 1523.4 | 1533.9 | 1532.4 |
| 5°     | 1532.4 | 1529.4 | 1518.8 | 1530.9 | 1529.4 |
| 7.5°   | 1521.8 | 1520.3 | 1509.8 | 1520.3 | 1518.8 |
| 10°    | 1506.8 | 1506.8 | 1494.8 | 1505.3 | 1503.8 |
| 12.5°  | 1485.8 | 1487.3 | 1478.3 | 1485.8 | 1481.3 |
| 15°    | 1463.3 | 1464.8 | 1454.2 | 1463.3 | 1457.2 |
| 17.5°  | 1434.7 | 1437.7 | 1427.2 | 1434.7 | 1430.2 |
| 20°    | 1403.2 | 1406.2 | 1395.7 | 1400.2 | 1400.2 |
| 22.5°  | 1367.1 | 1373.1 | 1361.1 | 1367.1 | 1362.6 |
| 25°    | 1329.6 | 1334.1 | 1325.0 | 1331.1 | 1323.5 |
| 27.5°  | 1289.0 | 1295.0 | 1284.5 | 1289.0 | 1286.0 |
| 30°    | 1242.4 | 1251.4 | 1242.4 | 1245.4 | 1243.9 |
| 32.5°  | 1200.4 | 1207.9 | 1201.9 | 1204.9 | 1203.4 |
| 35°    | 1150.8 | 1161.3 | 1156.8 | 1161.3 | 1161.3 |
| 37.5°  | 1102.7 | 1111.7 | 1110.2 | 1116.2 | 1114.7 |
| 40°    | 1053.1 | 1065.1 | 1063.6 | 1069.7 | 1072.7 |
| 42.5°  | 999.0  | 1015.6 | 1020.1 | 1027.6 | 1027.6 |
| 45°    | 948.0  | 964.5  | 972.0  | 982.5  | 984.0  |
| 47.5°  | 895.4  | 910.4  | 922.4  | 937.4  | 940.5  |
| 50°    | 841.3  | 857.8  | 874.3  | 890.9  | 895.4  |
| 52.5°  | 784.2  | 805.2  | 826.3  | 844.3  | 847.3  |
| 55°    | 728.6  | 752.7  | 776.7  | 793.2  | 799.2  |
| 57.5°  | 671.5  | 700.1  | 727.1  | 745.2  | 749.7  |
| 60°    | 614.4  | 644.5  | 674.5  | 697.1  | 701.6  |
| 62.5°  | 558.9  | 588.9  | 622.0  | 647.5  | 653.5  |
| 65°    | 501.8  | 536.3  | 572.4  | 594.9  | 600.9  |
| 67.5°  | 449.2  | 482.2  | 518.3  | 545.3  | 552.9  |
| 70°    | 390.6  | 425.2  | 464.2  | 492.8  | 501.8  |
| 72.5°  | 333.5  | 369.6  | 413.1  | 444.7  | 450.7  |
| 75°    | 276.4  | 315.5  | 363.6  | 393.6  | 401.1  |
| 77.5°  | 220.8  | 265.9  | 311.0  | 344.0  | 350.0  |
| 80°    | 169.8  | 214.8  | 265.9  | 299.0  | 305.0  |
| 82.5°  | 123.2  | 171.3  | 223.8  | 255.4  | 267.4  |
| 85°    | 82.6   | 132.2  | 184.8  | 217.8  | 229.9  |
| 87.5°  | 52.6   | 100.7  | 151.7  | 186.3  | 196.8  |
| 90°    | 24.3   | 75.2   | 128.7  | 164.9  | 176.5  |
| 92.5°  | 31.3   | 76.6   | 132.2  | 167.6  | 178.8  |
| 95°    | 41.7   | 81.5   | 136.0  | 171.4  | 182.6  |
| 97.5°  | 52.2   | 88.6   | 143.0  | 176.6  | 187.4  |
| 100°   | 64.4   | 96.0   | 148.4  | 183.1  | 192.8  |
| 102.5° | 77.6   | 107.9  | 156.1  | 189.6  | 199.6  |
| 105°   | 91.5   | 117.3  | 164.3  | 196.5  | 208.0  |
| 107.5° | 106.7  | 129.5  | 174.7  | 205.9  | 214.9  |
| 110°   | 122.7  | 142.4  | 185.5  | 215.1  | 225.3  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 140.4 | 154.6 | 196.6 | 223.9 | 233.8 |
| 115°   | 156.4 | 168.2 | 208.0 | 234.7 | 243.3 |
| 117.5° | 172.7 | 180.5 | 218.8 | 244.6 | 253.8 |
| 120°   | 189.1 | 195.3 | 230.2 | 255.7 | 263.4 |
| 122.5° | 205.4 | 207.2 | 241.3 | 265.0 | 273.0 |
| 125°   | 221.1 | 221.6 | 252.1 | 275.4 | 282.5 |
| 127.5° | 237.0 | 236.5 | 262.4 | 284.6 | 293.0 |
| 130°   | 252.4 | 252.6 | 274.3 | 295.1 | 301.9 |
| 132.5° | 266.3 | 269.4 | 284.0 | 304.8 | 309.8 |
| 135°   | 282.7 | 283.3 | 294.1 | 313.6 | 319.8 |
| 137.5° | 298.1 | 298.6 | 305.3 | 323.7 | 328.0 |
| 140°   | 311.3 | 313.0 | 315.5 | 332.7 | 337.0 |
| 142.5° | 326.0 | 325.9 | 327.2 | 341.1 | 345.4 |
| 145°   | 340.4 | 340.2 | 341.3 | 348.8 | 353.7 |
| 147.5° | 352.2 | 353.2 | 353.9 | 357.9 | 358.2 |
| 150°   | 365.5 | 365.2 | 366.6 | 366.6 | 367.4 |
| 152.5° | 376.5 | 377.2 | 377.5 | 378.5 | 377.2 |
| 155°   | 387.8 | 387.8 | 388.1 | 389.5 | 387.8 |
| 157.5° | 398.0 | 397.3 | 397.7 | 399.0 | 396.7 |
| 160°   | 406.9 | 405.9 | 406.2 | 407.6 | 405.9 |
| 162.5° | 414.8 | 414.1 | 414.1 | 415.8 | 413.7 |
| 165°   | 421.6 | 420.9 | 421.3 | 422.6 | 420.6 |
| 167.5° | 427.8 | 426.4 | 426.4 | 428.5 | 426.4 |
| 170°   | 432.6 | 431.2 | 431.2 | 433.2 | 430.8 |
| 172.5° | 436.0 | 434.6 | 434.6 | 436.7 | 434.6 |
| 175°   | 438.4 | 437.0 | 437.0 | 439.1 | 436.7 |
| 177.5° | 440.1 | 438.7 | 438.4 | 440.4 | 438.0 |
| 180°   | 439.4 | 439.4 | 439.4 | 439.4 | 439.4 |

(END OF REPORT)