

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: P1027861

Luminaire Tested: S125DIP-B375D375UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027861  
REPORT IS A COMBINATION OF REPORTS P1001977 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B375D375UB35-4F0-XX-W2A-D4  
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

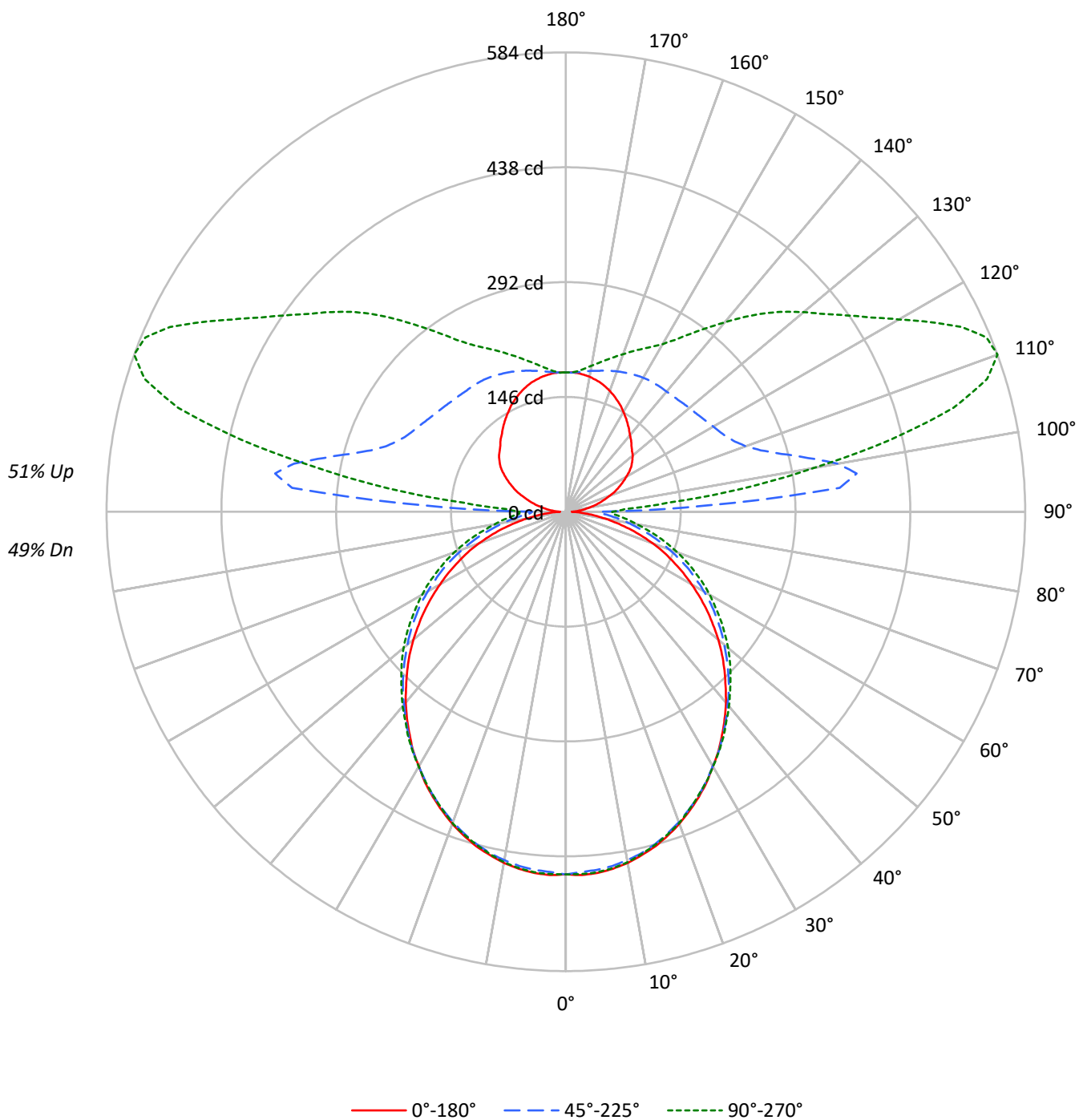
Lumens per Lamp: N/A  
Luminaire Lumens: 2761.8 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 22.3  
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   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 |
| 1   | 97  | 92  | 88  | 84  | 89 | 85 | 81 | 78 | 71 | 69 | 66 | 59 | 57 | 55 | 47 | 46 | 45 |
| 2   | 88  | 80  | 74  | 68  | 80 | 74 | 68 | 63 | 62 | 58 | 54 | 51 | 48 | 46 | 41 | 39 | 37 |
| 3   | 80  | 70  | 63  | 56  | 73 | 65 | 58 | 53 | 54 | 49 | 45 | 45 | 41 | 38 | 36 | 34 | 31 |
| 4   | 73  | 62  | 54  | 48  | 67 | 57 | 50 | 44 | 48 | 43 | 38 | 40 | 36 | 33 | 32 | 29 | 27 |
| 5   | 67  | 55  | 47  | 41  | 61 | 51 | 44 | 38 | 43 | 37 | 33 | 36 | 31 | 28 | 29 | 26 | 23 |
| 6   | 62  | 49  | 41  | 35  | 56 | 46 | 38 | 33 | 39 | 33 | 29 | 32 | 28 | 24 | 26 | 23 | 20 |
| 7   | 57  | 44  | 36  | 31  | 52 | 41 | 34 | 29 | 35 | 29 | 25 | 29 | 25 | 22 | 24 | 21 | 18 |
| 8   | 53  | 40  | 32  | 27  | 48 | 37 | 30 | 25 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 19 | 16 |
| 9   | 49  | 37  | 29  | 24  | 45 | 34 | 27 | 23 | 29 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 15 |
| 10  | 46  | 34  | 26  | 21  | 42 | 31 | 25 | 20 | 27 | 22 | 18 | 23 | 19 | 16 | 19 | 16 | 13 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2954 | 2954 | 2954 |
| 5°  | 2958 | 2892 | 2899 |
| 10° | 2936 | 2833 | 2825 |
| 15° | 2900 | 2764 | 2734 |
| 20° | 2852 | 2681 | 2643 |
| 25° | 2795 | 2593 | 2534 |
| 30° | 2725 | 2497 | 2434 |
| 35° | 2661 | 2408 | 2342 |
| 40° | 2595 | 2315 | 2250 |
| 45° | 2521 | 2234 | 2166 |
| 50° | 2450 | 2146 | 2092 |
| 55° | 2364 | 2062 | 2004 |
| 60° | 2270 | 1966 | 1915 |
| 65° | 2171 | 1866 | 1815 |
| 70° | 2060 | 1731 | 1709 |
| 75° | 1884 | 1598 | 1582 |
| 80° | 1651 | 1436 | 1440 |
| 85° | 1424 | 1307 | 1365 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 2521 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.6   | 1.6       |
| 10°-20°   | 123.8  | 4.5       |
| 20°-30°   | 184.1  | 6.7       |
| 30°-40°   | 218.1  | 7.9       |
| 40°-50°   | 225.5  | 8.2       |
| 50°-60°   | 207.7  | 7.5       |
| 60°-70°   | 167.9  | 6.1       |
| 70°-80°   | 112.3  | 4.1       |
| 80°-90°   | 58.8   | 2.1       |
| 90°-100°  | 166.1  | 6.0       |
| 100°-110° | 301.1  | 10.9      |
| 110°-120° | 274.9  | 10.0      |
| 120°-130° | 218.5  | 7.9       |
| 130°-140° | 172.2  | 6.2       |
| 140°-150° | 127.8  | 4.6       |
| 150°-160° | 89.4   | 3.2       |
| 160°-170° | 52.7   | 1.9       |
| 170°-180° | 17.1   | 0.6       |
| 0°-30°    | 351.6  | 12.7      |
| 0°-40°    | 569.7  | 20.6      |
| 0°-60°    | 1002.8 | 36.3      |
| 0°-90°    | 1341.8 | 48.6      |
| 90°-120°  | 742.1  | 26.9      |
| 90°-150°  | 1260.7 | 45.6      |
| 90°-180°  | 1420.0 | 51.4      |
| 0°-180°   | 2761.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 461 | 461   | 461 | 461   | 461 |      |
| 5°   | 461 | 460   | 457 | 460   | 460 | 44   |
| 15°  | 440 | 441   | 438 | 440   | 438 | 124  |
| 25°  | 400 | 401   | 399 | 400   | 398 | 184  |
| 35°  | 346 | 349   | 348 | 349   | 349 | 217  |
| 45°  | 285 | 290   | 292 | 296   | 296 | 220  |
| 55°  | 219 | 226   | 234 | 239   | 240 | 196  |
| 65°  | 151 | 161   | 172 | 179   | 181 | 150  |
| 75°  | 83  | 95    | 109 | 118   | 121 | 88   |
| 85°  | 25  | 40    | 56  | 66    | 69  | 26   |
| 90°  | 8   | 25    | 43  | 55    | 59  | 6    |
| 95°  | 18  | 52    | 349 | 186   | 130 | 17   |
| 105° | 44  | 68    | 284 | 544   | 510 | 47   |
| 115° | 75  | 93    | 225 | 474   | 556 | 74   |
| 125° | 102 | 119   | 210 | 374   | 435 | 90   |
| 135° | 118 | 141   | 201 | 308   | 357 | 92   |
| 145° | 137 | 156   | 198 | 250   | 276 | 86   |
| 155° | 156 | 168   | 194 | 219   | 228 | 72   |
| 165° | 170 | 175   | 186 | 197   | 200 | 48   |
| 175° | 177 | 177   | 178 | 180   | 180 | 17   |
| 180° | 177 | 177   | 177 | 177   | 177 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 461.0 | 461.0 | 461.0 | 461.0 | 461.0 |
| 2.5°   | 462.3 | 461.4 | 458.3 | 461.4 | 461.0 |
| 5°     | 461.0 | 460.1 | 456.9 | 460.5 | 460.1 |
| 7.5°   | 457.8 | 457.4 | 454.2 | 457.4 | 456.9 |
| 10°    | 453.3 | 453.3 | 449.7 | 452.8 | 452.4 |
| 12.5°  | 447.0 | 447.4 | 444.7 | 447.0 | 445.6 |
| 15°    | 440.2 | 440.6 | 437.5 | 440.2 | 438.4 |
| 17.5°  | 431.6 | 432.5 | 429.3 | 431.6 | 430.2 |
| 20°    | 422.1 | 423.0 | 419.8 | 421.2 | 421.2 |
| 22.5°  | 411.3 | 413.1 | 409.4 | 411.3 | 409.9 |
| 25°    | 400.0 | 401.3 | 398.6 | 400.4 | 398.2 |
| 27.5°  | 387.8 | 389.6 | 386.4 | 387.8 | 386.9 |
| 30°    | 373.7 | 376.5 | 373.7 | 374.6 | 374.2 |
| 32.5°  | 361.1 | 363.4 | 361.5 | 362.4 | 362.0 |
| 35°    | 346.2 | 349.3 | 348.0 | 349.3 | 349.3 |
| 37.5°  | 331.7 | 334.4 | 334.0 | 335.8 | 335.3 |
| 40°    | 316.8 | 320.4 | 320.0 | 321.8 | 322.7 |
| 42.5°  | 300.5 | 305.5 | 306.9 | 309.1 | 309.1 |
| 45°    | 285.2 | 290.1 | 292.4 | 295.6 | 296.0 |
| 47.5°  | 269.4 | 273.9 | 277.5 | 282.0 | 282.9 |
| 50°    | 253.1 | 258.1 | 263.0 | 268.0 | 269.4 |
| 52.5°  | 235.9 | 242.2 | 248.6 | 254.0 | 254.9 |
| 55°    | 219.2 | 226.4 | 233.6 | 238.6 | 240.4 |
| 57.5°  | 202.0 | 210.6 | 218.7 | 224.2 | 225.5 |
| 60°    | 184.8 | 193.9 | 202.9 | 209.7 | 211.1 |
| 62.5°  | 168.1 | 177.2 | 187.1 | 194.8 | 196.6 |
| 65°    | 150.9 | 161.3 | 172.2 | 179.0 | 180.8 |
| 67.5°  | 135.1 | 145.1 | 155.9 | 164.1 | 166.3 |
| 70°    | 117.5 | 127.9 | 139.6 | 148.2 | 150.9 |
| 72.5°  | 100.3 | 111.2 | 124.3 | 133.8 | 135.6 |
| 75°    | 83.2  | 94.9  | 109.4 | 118.4 | 120.7 |
| 77.5°  | 66.4  | 80.0  | 93.5  | 103.5 | 105.3 |
| 80°    | 51.1  | 64.6  | 80.0  | 89.9  | 91.7  |
| 82.5°  | 37.1  | 51.5  | 67.3  | 76.8  | 80.4  |
| 85°    | 24.9  | 39.8  | 55.6  | 65.5  | 69.1  |
| 87.5°  | 15.8  | 30.3  | 45.6  | 56.0  | 59.2  |
| 90°    | 7.6   | 25.0  | 42.8  | 55.0  | 58.8  |
| 92.5°  | 11.7  | 48.7  | 177.8 | 83.2  | 74.8  |
| 95°    | 17.7  | 52.4  | 349.4 | 186.5 | 130.0 |
| 97.5°  | 23.6  | 54.0  | 372.9 | 300.0 | 227.7 |
| 100°   | 30.0  | 57.8  | 351.3 | 404.8 | 319.6 |
| 102.5° | 37.0  | 62.6  | 315.6 | 493.2 | 423.1 |
| 105°   | 44.5  | 67.7  | 283.8 | 543.6 | 510.2 |
| 107.5° | 51.4  | 73.6  | 259.7 | 556.6 | 561.5 |
| 110°   | 59.3  | 80.0  | 243.3 | 540.2 | 584.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 67.5  | 86.3  | 232.9 | 508.6 | 578.8 |
| 115°   | 74.8  | 92.9  | 225.4 | 473.8 | 555.6 |
| 117.5° | 81.6  | 99.5  | 220.4 | 441.5 | 522.0 |
| 120°   | 88.7  | 106.2 | 216.5 | 414.5 | 489.0 |
| 122.5° | 95.7  | 112.4 | 212.9 | 392.0 | 459.5 |
| 125°   | 101.8 | 118.6 | 209.7 | 374.0 | 435.2 |
| 127.5° | 106.4 | 124.8 | 207.1 | 357.8 | 413.0 |
| 130°   | 111.0 | 131.2 | 205.0 | 341.9 | 394.7 |
| 132.5° | 114.1 | 137.0 | 203.2 | 325.0 | 376.4 |
| 135°   | 118.0 | 141.4 | 201.4 | 308.2 | 356.7 |
| 137.5° | 123.0 | 145.8 | 200.5 | 291.2 | 335.9 |
| 140°   | 126.9 | 149.6 | 199.4 | 275.5 | 314.4 |
| 142.5° | 131.9 | 152.6 | 198.9 | 261.8 | 294.4 |
| 145°   | 136.9 | 156.2 | 198.5 | 249.6 | 276.2 |
| 147.5° | 141.8 | 159.4 | 197.8 | 239.2 | 259.3 |
| 150°   | 146.4 | 162.3 | 196.8 | 231.0 | 246.2 |
| 152.5° | 151.4 | 165.2 | 195.3 | 224.8 | 236.4 |
| 155°   | 155.7 | 167.5 | 193.5 | 218.7 | 228.2 |
| 157.5° | 159.6 | 169.8 | 191.8 | 213.0 | 220.7 |
| 160°   | 163.5 | 171.6 | 190.0 | 207.2 | 213.2 |
| 162.5° | 166.8 | 173.4 | 187.8 | 202.1 | 206.4 |
| 165°   | 170.0 | 174.6 | 185.7 | 196.9 | 200.0 |
| 167.5° | 172.1 | 175.3 | 183.5 | 192.1 | 193.9 |
| 170°   | 174.3 | 176.2 | 181.8 | 187.4 | 188.5 |
| 172.5° | 175.7 | 176.6 | 179.6 | 183.7 | 183.5 |
| 175°   | 176.8 | 176.8 | 178.2 | 180.3 | 179.6 |
| 177.5° | 177.5 | 176.8 | 177.1 | 178.2 | 177.1 |
| 180°   | 177.1 | 177.1 | 177.1 | 177.1 | 177.1 |

(END OF REPORT)