

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: P1026880

Luminaire Tested: S125DIP-B375D610UB2750-4F0-XX-W2A-D\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026880  
REPORT IS A COMBINATION OF REPORTS P1002014 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B375D610UB2750-4F0-XX-W2A-D\_3000K  
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

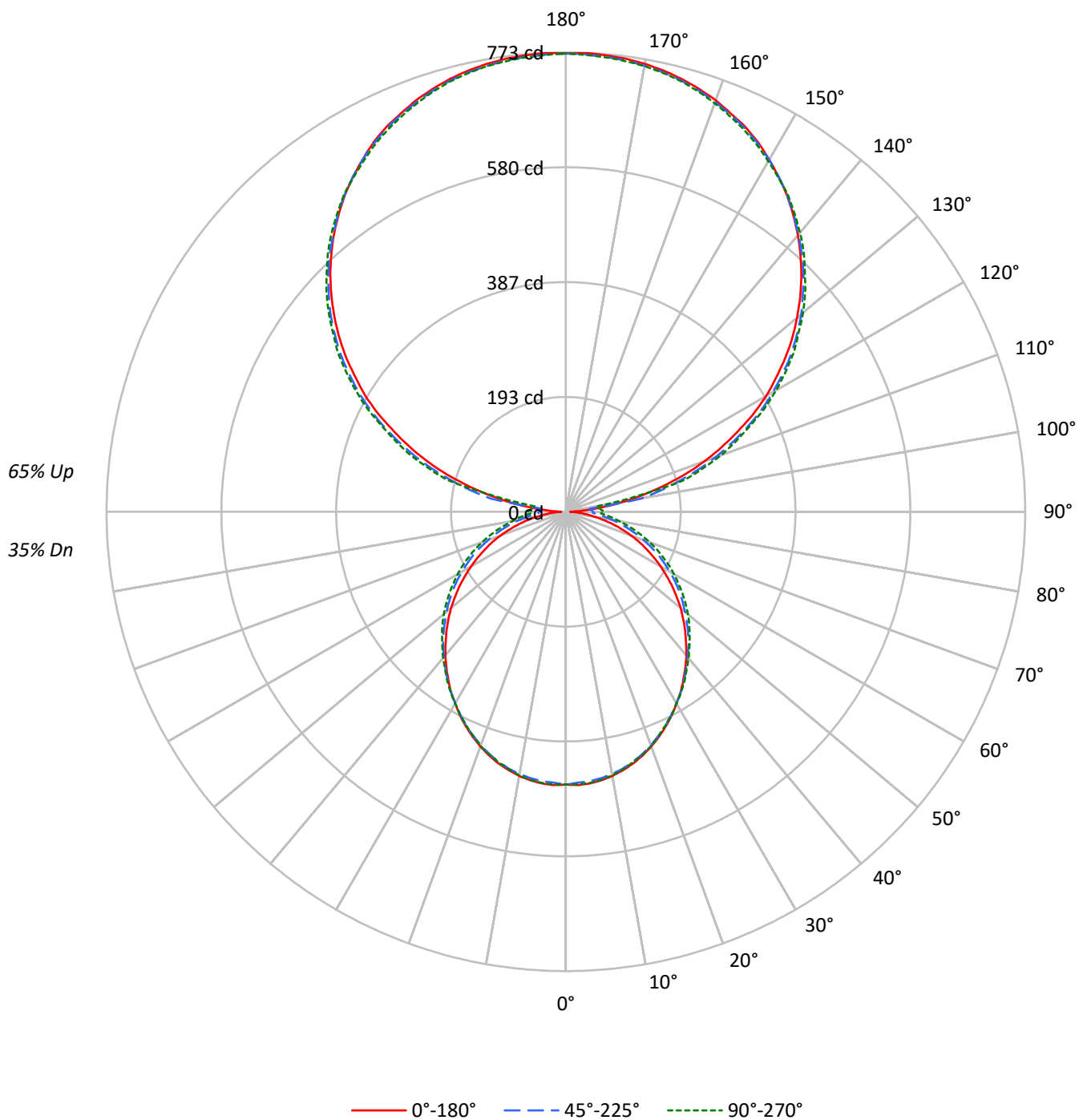
Lumens per Lamp: N/A  
Luminaire Lumens: 3792.2 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

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 |    |  |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  |  | 70 | 50 | 30 | 10 |  | 50 | 30 | 10 |  | 50 | 30 | 10 |  | 50 | 30 | 10 |
| RCR |     |     |     |     |  |    |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |
| 0   | 104 | 104 | 104 | 104 |  | 94 | 94 | 94 | 94 |  | 75 | 75 | 75 |  | 58 | 58 | 58 |  | 43 | 43 | 43 |
| 1   | 94  | 89  | 85  | 82  |  | 85 | 81 | 78 | 75 |  | 65 | 63 | 60 |  | 50 | 49 | 47 |  | 37 | 36 | 35 |
| 2   | 85  | 78  | 72  | 66  |  | 77 | 70 | 65 | 61 |  | 57 | 53 | 50 |  | 44 | 41 | 39 |  | 32 | 30 | 29 |
| 3   | 78  | 68  | 61  | 55  |  | 70 | 62 | 55 | 50 |  | 50 | 45 | 41 |  | 39 | 35 | 33 |  | 28 | 26 | 24 |
| 4   | 71  | 60  | 52  | 46  |  | 64 | 55 | 48 | 42 |  | 44 | 39 | 35 |  | 34 | 31 | 28 |  | 25 | 23 | 21 |
| 5   | 65  | 53  | 45  | 39  |  | 58 | 49 | 41 | 36 |  | 39 | 34 | 30 |  | 31 | 27 | 24 |  | 23 | 20 | 18 |
| 6   | 60  | 48  | 40  | 34  |  | 54 | 43 | 36 | 31 |  | 35 | 30 | 26 |  | 28 | 24 | 21 |  | 20 | 18 | 16 |
| 7   | 55  | 43  | 35  | 30  |  | 50 | 39 | 32 | 27 |  | 32 | 27 | 23 |  | 25 | 21 | 18 |  | 19 | 16 | 14 |
| 8   | 51  | 39  | 31  | 26  |  | 46 | 35 | 29 | 24 |  | 29 | 24 | 20 |  | 23 | 19 | 16 |  | 17 | 14 | 12 |
| 9   | 47  | 35  | 28  | 23  |  | 43 | 32 | 26 | 21 |  | 26 | 21 | 18 |  | 21 | 17 | 15 |  | 16 | 13 | 11 |
| 10  | 44  | 32  | 25  | 21  |  | 40 | 30 | 23 | 19 |  | 24 | 19 | 16 |  | 19 | 16 | 13 |  | 15 | 12 | 10 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2941 | 2941 | 2941 |
| 5°  | 2946 | 2879 | 2886 |
| 10° | 2924 | 2821 | 2813 |
| 15° | 2888 | 2752 | 2722 |
| 20° | 2840 | 2670 | 2632 |
| 25° | 2783 | 2582 | 2523 |
| 30° | 2714 | 2487 | 2423 |
| 35° | 2650 | 2398 | 2332 |
| 40° | 2585 | 2305 | 2240 |
| 45° | 2511 | 2225 | 2157 |
| 50° | 2439 | 2137 | 2082 |
| 55° | 2354 | 2054 | 1996 |
| 60° | 2261 | 1959 | 1907 |
| 65° | 2163 | 1859 | 1806 |
| 70° | 2051 | 1724 | 1702 |
| 75° | 1875 | 1591 | 1576 |
| 80° | 1645 | 1431 | 1435 |
| 85° | 1418 | 1303 | 1361 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2511 cd/sqm

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CATALOG NUMBER: S125DIP-B375D610UB2750-4F0-XX-W2A-D\_3000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.4   | 1.1       |
| 10°-20°   | 123.3  | 3.3       |
| 20°-30°   | 183.4  | 4.8       |
| 30°-40°   | 217.2  | 5.7       |
| 40°-50°   | 224.5  | 5.9       |
| 50°-60°   | 206.8  | 5.5       |
| 60°-70°   | 167.2  | 4.4       |
| 70°-80°   | 111.9  | 3.0       |
| 80°-90°   | 59.0   | 1.6       |
| 90°-100°  | 58.8   | 1.5       |
| 100°-110° | 198.1  | 5.2       |
| 110°-120° | 329.5  | 8.7       |
| 120°-130° | 411.4  | 10.8      |
| 130°-140° | 436.7  | 11.5      |
| 140°-150° | 406.9  | 10.7      |
| 150°-160° | 328.5  | 8.7       |
| 160°-170° | 212.4  | 5.6       |
| 170°-180° | 73.3   | 1.9       |
| 0°-30°    | 350.1  | 9.2       |
| 0°-40°    | 567.3  | 15.0      |
| 0°-60°    | 998.6  | 26.3      |
| 0°-90°    | 1336.7 | 35.2      |
| 90°-120°  | 586.4  | 15.5      |
| 90°-150°  | 1841.4 | 48.6      |
| 90°-180°  | 2456.0 | 64.8      |
| 0°-180°   | 3792.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 459 | 459   | 459 | 459   | 459 |      |
| 5°   | 459 | 458   | 455 | 459   | 458 | 44   |
| 15°  | 438 | 439   | 436 | 438   | 436 | 124  |
| 25°  | 398 | 400   | 397 | 399   | 396 | 183  |
| 35°  | 345 | 348   | 346 | 348   | 348 | 216  |
| 45°  | 284 | 289   | 291 | 294   | 295 | 219  |
| 55°  | 218 | 226   | 233 | 238   | 239 | 195  |
| 65°  | 150 | 161   | 172 | 178   | 180 | 149  |
| 75°  | 83  | 94    | 109 | 118   | 120 | 88   |
| 85°  | 25  | 40    | 55  | 65    | 69  | 26   |
| 90°  | 8   | 27    | 46  | 59    | 64  | 7    |
| 95°  | 38  | 48    | 42  | 55    | 58  | 45   |
| 105° | 172 | 182   | 195 | 204   | 207 | 182  |
| 115° | 318 | 324   | 337 | 342   | 342 | 316  |
| 125° | 451 | 454   | 463 | 468   | 469 | 402  |
| 135° | 561 | 564   | 566 | 570   | 569 | 432  |
| 145° | 649 | 650   | 650 | 653   | 651 | 406  |
| 155° | 715 | 711   | 712 | 714   | 709 | 329  |
| 165° | 754 | 751   | 751 | 755   | 750 | 213  |
| 175° | 771 | 768   | 768 | 773   | 768 | 73   |
| 180° | 771 | 771   | 771 | 771   | 771 |      |

TEST NUMBER: P1026880

CATALOG NUMBER: S125DIP-B375D610UB2750-4F0-XX-W2A-D\_3000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 |
| 2.5°   | 460.4 | 459.5 | 456.3 | 459.5 | 459.0 |
| 5°     | 459.0 | 458.1 | 455.0 | 458.6 | 458.1 |
| 7.5°   | 455.9 | 455.4 | 452.3 | 455.4 | 455.0 |
| 10°    | 451.4 | 451.4 | 447.8 | 450.9 | 450.5 |
| 12.5°  | 445.1 | 445.5 | 442.8 | 445.1 | 443.7 |
| 15°    | 438.3 | 438.8 | 435.6 | 438.3 | 436.5 |
| 17.5°  | 429.8 | 430.7 | 427.5 | 429.8 | 428.4 |
| 20°    | 420.3 | 421.2 | 418.1 | 419.4 | 419.4 |
| 22.5°  | 409.5 | 411.3 | 407.7 | 409.5 | 408.2 |
| 25°    | 398.3 | 399.6 | 396.9 | 398.7 | 396.5 |
| 27.5°  | 386.1 | 387.9 | 384.8 | 386.1 | 385.2 |
| 30°    | 372.2 | 374.9 | 372.2 | 373.1 | 372.6 |
| 32.5°  | 359.6 | 361.8 | 360.0 | 360.9 | 360.5 |
| 35°    | 344.7 | 347.9 | 346.5 | 347.9 | 347.9 |
| 37.5°  | 330.3 | 333.0 | 332.6 | 334.4 | 333.9 |
| 40°    | 315.5 | 319.1 | 318.6 | 320.4 | 321.3 |
| 42.5°  | 299.3 | 304.2 | 305.6 | 307.8 | 307.8 |
| 45°    | 284.0 | 288.9 | 291.2 | 294.3 | 294.8 |
| 47.5°  | 268.2 | 272.7 | 276.3 | 280.8 | 281.7 |
| 50°    | 252.0 | 257.0 | 261.9 | 266.9 | 268.2 |
| 52.5°  | 234.9 | 241.2 | 247.5 | 252.9 | 253.8 |
| 55°    | 218.3 | 225.5 | 232.7 | 237.6 | 239.4 |
| 57.5°  | 201.2 | 209.7 | 217.8 | 223.2 | 224.6 |
| 60°    | 184.1 | 193.1 | 202.1 | 208.8 | 210.2 |
| 62.5°  | 167.4 | 176.4 | 186.3 | 194.0 | 195.8 |
| 65°    | 150.3 | 160.7 | 171.5 | 178.2 | 180.0 |
| 67.5°  | 134.6 | 144.5 | 155.3 | 163.4 | 165.6 |
| 70°    | 117.0 | 127.4 | 139.1 | 147.6 | 150.3 |
| 72.5°  | 99.9  | 110.7 | 123.8 | 133.2 | 135.0 |
| 75°    | 82.8  | 94.5  | 108.9 | 117.9 | 120.2 |
| 77.5°  | 66.2  | 79.7  | 93.2  | 103.1 | 104.9 |
| 80°    | 50.9  | 64.4  | 79.7  | 89.6  | 91.4  |
| 82.5°  | 36.9  | 51.3  | 67.1  | 76.5  | 80.1  |
| 85°    | 24.8  | 39.6  | 55.4  | 65.3  | 68.9  |
| 87.5°  | 15.8  | 30.2  | 45.5  | 55.8  | 59.0  |
| 90°    | 7.8   | 26.7  | 46.0  | 59.3  | 64.1  |
| 92.5°  | 17.2  | 25.1  | 44.2  | 57.0  | 60.8  |
| 95°    | 38.5  | 48.5  | 42.0  | 54.8  | 57.9  |
| 97.5°  | 66.6  | 80.8  | 41.4  | 51.9  | 55.7  |
| 100°   | 100.5 | 111.6 | 128.3 | 52.6  | 53.0  |
| 102.5° | 134.8 | 145.7 | 160.8 | 170.9 | 125.6 |
| 105°   | 172.2 | 181.7 | 195.2 | 204.2 | 206.7 |
| 107.5° | 210.5 | 216.8 | 231.1 | 240.7 | 241.1 |
| 110°   | 247.9 | 253.3 | 267.0 | 273.8 | 277.6 |

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CATALOG NUMBER: S125DIP-B375D610UB2750-4F0-XX-W2A-D\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 283.3 | 289.0 | 301.8 | 307.6 | 309.6 |
| 115°   | 318.3 | 324.3 | 336.6 | 342.4 | 341.7 |
| 117.5° | 355.0 | 357.2 | 370.8 | 375.0 | 377.0 |
| 120°   | 389.3 | 390.0 | 402.2 | 408.6 | 408.5 |
| 122.5° | 419.1 | 422.5 | 432.9 | 439.0 | 438.3 |
| 125°   | 450.6 | 454.2 | 463.2 | 468.1 | 468.6 |
| 127.5° | 480.4 | 482.8 | 489.9 | 495.5 | 493.6 |
| 130°   | 507.9 | 510.2 | 517.1 | 521.7 | 521.1 |
| 132.5° | 534.8 | 538.3 | 541.0 | 547.3 | 546.3 |
| 135°   | 560.6 | 563.6 | 565.5 | 570.3 | 569.1 |
| 137.5° | 584.6 | 587.6 | 588.2 | 593.6 | 592.6 |
| 140°   | 607.6 | 608.7 | 608.6 | 614.7 | 613.1 |
| 142.5° | 628.8 | 628.8 | 630.0 | 634.1 | 632.4 |
| 145°   | 649.3 | 650.0 | 650.0 | 652.8 | 651.2 |
| 147.5° | 667.1 | 667.1 | 667.7 | 669.2 | 666.1 |
| 150°   | 684.3 | 683.1 | 684.3 | 685.4 | 681.3 |
| 152.5° | 700.9 | 698.0 | 699.1 | 700.3 | 696.3 |
| 155°   | 714.6 | 711.1 | 712.3 | 714.0 | 709.4 |
| 157.5° | 725.4 | 723.7 | 723.7 | 725.4 | 720.9 |
| 160°   | 736.9 | 733.4 | 734.0 | 736.3 | 731.7 |
| 162.5° | 746.0 | 742.6 | 743.2 | 746.6 | 741.4 |
| 165°   | 754.0 | 750.6 | 751.2 | 754.6 | 750.0 |
| 167.5° | 760.3 | 756.9 | 757.4 | 761.4 | 756.3 |
| 170°   | 765.4 | 761.4 | 762.0 | 766.6 | 761.4 |
| 172.5° | 768.9 | 764.9 | 766.0 | 770.0 | 764.9 |
| 175°   | 771.2 | 767.7 | 768.3 | 772.9 | 767.7 |
| 177.5° | 772.9 | 769.5 | 770.0 | 774.0 | 769.5 |
| 180°   | 771.2 | 771.2 | 771.2 | 771.2 | 771.2 |

(END OF REPORT)