Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1027914

Luminaire Tested: S125DIP-B375D610UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | P1027914 |
| | REPORT IS A COMBINATION OF REPORTS P1002045 AND P1007351 |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 5/6/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | NEO-RAY |
| Catalog Number: | S125DIP-B375D610UB40-4F0-XX-W2A-D1 |
| Description: | Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951} |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 3453.0 lumens |
| Efficiency: | N/A |
| Efficacy: | 121.6 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-Indirect |

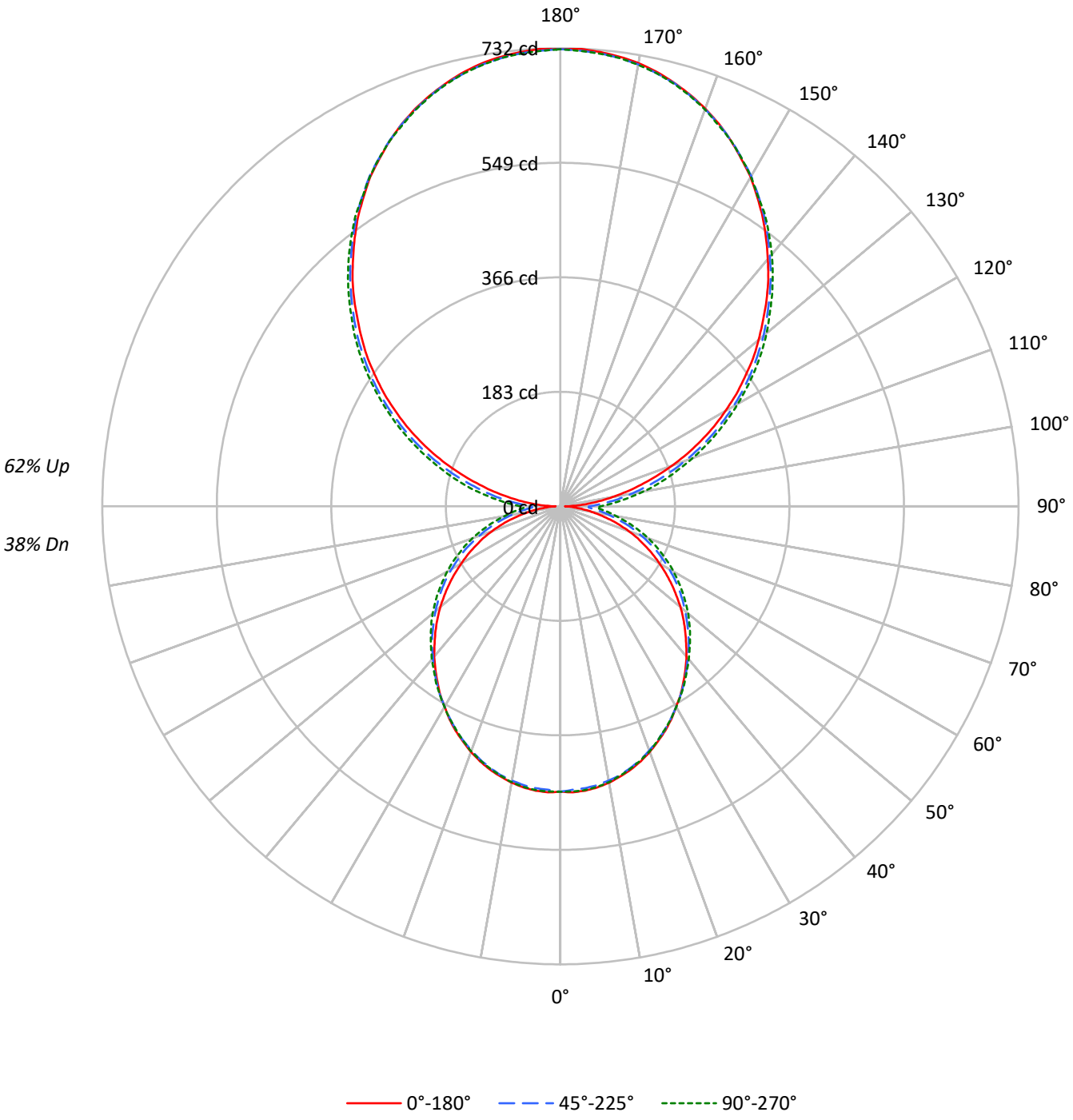
| | |
|---|---|
| Input Watts (W): | 28.4 |
| Input Voltage (V): | |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | NR |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 24 FT |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1027914
CATALOG NUMBER: S125DIP-B375D610UB40-4F0-XX-W2A-D1

## Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1027914
CATALOG NUMBER: S125DIP-B375D610UB40-4F0-XX-W2A-D1

## COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 20 | | | | 20 | | | 20 | | | 20 | | | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 | 38 |
| 1 | 95 | 90 | 86 | 82 | 86 | 82 | 78 | 75 | 66 | 64 | 62 | 52 | 51 | 49 | 39 | 38 | 37 | 31 |
| 2 | 86 | 78 | 72 | 67 | 78 | 71 | 66 | 61 | 58 | 54 | 51 | 46 | 43 | 41 | 34 | 32 | 31 | 26 |
| 3 | 78 | 69 | 61 | 55 | 71 | 62 | 56 | 51 | 51 | 46 | 42 | 40 | 37 | 34 | 30 | 28 | 26 | 21 |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 48 | 43 | 45 | 40 | 36 | 36 | 32 | 29 | 27 | 24 | 22 | 18 |
| 5 | 65 | 54 | 46 | 40 | 59 | 49 | 42 | 37 | 40 | 35 | 31 | 32 | 28 | 25 | 24 | 21 | 19 | 16 |
| 6 | 60 | 48 | 40 | 34 | 54 | 44 | 37 | 32 | 36 | 31 | 27 | 29 | 25 | 22 | 22 | 19 | 17 | 14 |
| 7 | 56 | 43 | 35 | 30 | 50 | 40 | 33 | 28 | 33 | 27 | 23 | 26 | 22 | 19 | 20 | 17 | 15 | 12 |
| 8 | 51 | 39 | 32 | 26 | 47 | 36 | 29 | 24 | 30 | 24 | 21 | 24 | 20 | 17 | 18 | 15 | 13 | 11 |
| 9 | 48 | 36 | 28 | 23 | 43 | 33 | 26 | 22 | 27 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 12 | 10 |
| 10 | 45 | 33 | 26 | 21 | 40 | 30 | 24 | 19 | 25 | 20 | 16 | 20 | 16 | 14 | 16 | 13 | 11 | 9 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|---|---|---|---|
| 0° | 2922 | 2922 | 2922 |
| 5° | 2927 | 2861 | 2868 |
| 10° | 2905 | 2803 | 2795 |
| 15° | 2870 | 2735 | 2705 |
| 20° | 2822 | 2653 | 2615 |
| 25° | 2766 | 2566 | 2507 |
| 30° | 2697 | 2471 | 2408 |
| 35° | 2633 | 2383 | 2318 |
| 40° | 2568 | 2290 | 2226 |
| 45° | 2495 | 2210 | 2144 |
| 50° | 2424 | 2124 | 2069 |
| 55° | 2339 | 2040 | 1983 |
| 60° | 2246 | 1946 | 1894 |
| 65° | 2150 | 1847 | 1795 |
| 70° | 2039 | 1713 | 1692 |
| 75° | 1863 | 1581 | 1565 |
| 80° | 1632 | 1422 | 1425 |
| 85° | 1407 | 1293 | 1351 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2495 cd/sqm

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1027914
CATALOG NUMBER: S125DIP-B375D610UB40-4F0-XX-W2A-D1

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 43.2 | 1.2 |
| 10°-20° | 122.5 | 3.5 |
| 20°-30° | 182.2 | 5.3 |
| 30°-40° | 215.8 | 6.2 |
| 40°-50° | 223.1 | 6.5 |
| 50°-60° | 205.5 | 6.0 |
| 60°-70° | 166.1 | 4.8 |
| 70°-80° | 111.2 | 3.2 |
| 80°-90° | 58.6 | 1.7 |
| 90°-100° | 81.0 | 2.3 |
| 100°-110° | 168.2 | 4.9 |
| 110°-120° | 260.7 | 7.6 |
| 120°-130° | 331.2 | 9.6 |
| 130°-140° | 365.0 | 10.6 |
| 140°-150° | 354.7 | 10.3 |
| 150°-160° | 297.3 | 8.6 |
| 160°-170° | 197.6 | 5.7 |
| 170°-180° | 69.2 | 2.0 |
| 0°-30° | 347.9 | 10.1 |
| 0°-40° | 563.7 | 16.3 |
| 0°-60° | 992.3 | 28.7 |
| 0°-90° | 1328.2 | 38.5 |
| 90°-120° | 509.9 | 14.8 |
| 90°-150° | 1560.8 | 45.2 |
| 90°-180° | 2125.0 | 61.5 |
| 0°-180° | 3453.0 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|---|---|---|---|---|---|---|
| 0° | 456 | 456 | 456 | 456 | 456 | |
| 5° | 456 | 455 | 452 | 456 | 455 | 43 |
| 15° | 436 | 436 | 433 | 436 | 434 | 123 |
| 25° | 396 | 397 | 394 | 396 | 394 | 182 |
| 35° | 342 | 346 | 344 | 346 | 346 | 214 |
| 45° | 282 | 287 | 289 | 292 | 293 | 218 |
| 55° | 217 | 224 | 231 | 236 | 238 | 194 |
| 65° | 149 | 160 | 170 | 177 | 179 | 148 |
| 75° | 82 | 94 | 108 | 117 | 119 | 87 |
| 85° | 25 | 39 | 55 | 65 | 68 | 26 |
| 90° | 8 | 27 | 46 | 59 | 64 | 7 |
| 95° | 43 | 56 | 76 | 90 | 94 | 43 |
| 105° | 134 | 144 | 160 | 173 | 178 | 142 |
| 115° | 248 | 253 | 266 | 273 | 276 | 245 |
| 125° | 359 | 362 | 372 | 378 | 380 | 322 |
| 135° | 466 | 469 | 473 | 478 | 478 | 359 |
| 145° | 564 | 566 | 567 | 570 | 570 | 352 |
| 155° | 645 | 645 | 645 | 648 | 645 | 297 |
| 165° | 701 | 700 | 700 | 703 | 699 | 198 |
| 175° | 729 | 727 | 727 | 730 | 726 | 69 |
| 180° | 730 | 730 | 730 | 730 | 730 | |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1027914
CATALOG NUMBER: S125DIP-B375D610UB40-4F0-XX-W2A-D1

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 22.5° | 45° | 67.5° | 90° |
|---|---|---|---|---|---|
| 0° | 456.1 | 456.1 | 456.1 | *456.1* | 456.1 |
| 2.5° | 457.5 | 456.6 | 453.4 | *456.6* | 456.1 |
| 5° | 456.1 | 455.2 | 452.1 | *455.7* | 455.2 |
| 7.5° | 453.0 | 452.5 | 449.4 | *452.5* | 452.1 |
| 10° | 448.5 | 448.5 | 444.9 | *448.1* | 447.6 |
| 12.5° | 442.3 | 442.7 | 440.0 | *442.3* | 440.9 |
| 15° | 435.6 | 436.0 | 432.9 | *435.6* | 433.8 |
| 17.5° | 427.1 | 428.0 | 424.8 | *427.1* | 425.7 |
| 20° | 417.7 | 418.6 | 415.4 | *416.8* | 416.8 |
| 22.5° | 406.9 | 408.7 | 405.1 | *406.9* | 405.6 |
| 25° | 395.8 | 397.1 | 394.4 | *396.2* | 394.0 |
| 27.5° | 383.7 | 385.5 | 382.3 | *383.7* | 382.8 |
| 30° | 369.8 | 372.5 | 369.8 | *370.7* | 370.3 |
| 32.5° | 357.3 | 359.5 | 357.7 | *358.6* | 358.2 |
| 35° | 342.5 | 345.7 | 344.3 | *345.7* | 345.7 |
| 37.5° | 328.2 | 330.9 | 330.5 | *332.3* | 331.8 |
| 40° | 313.5 | 317.1 | 316.6 | *318.4* | 319.3 |
| 42.5° | 297.4 | 302.3 | 303.6 | *305.9* | 305.9 |
| 45° | 282.2 | 287.1 | 289.3 | *292.5* | 292.9 |
| 47.5° | 266.5 | 271.0 | 274.6 | *279.0* | 279.9 |
| 50° | 250.4 | 255.3 | 260.3 | *265.2* | 266.5 |
| 52.5° | 233.4 | 239.7 | 246.0 | *251.3* | 252.2 |
| 55° | 216.9 | 224.0 | 231.2 | *236.1* | 237.9 |
| 57.5° | 199.9 | 208.4 | 216.4 | *221.8* | 223.1 |
| 60° | 182.9 | 191.8 | 200.8 | *207.5* | 208.8 |
| 62.5° | 166.4 | 175.3 | 185.1 | *192.7* | 194.5 |
| 65° | 149.4 | 159.6 | 170.4 | *177.1* | 178.9 |
| 67.5° | 133.7 | 143.5 | 154.3 | *162.3* | 164.6 |
| 70° | 116.3 | 126.6 | 138.2 | *146.7* | 149.4 |
| 72.5° | 99.3 | 110.0 | 123.0 | *132.4* | 134.2 |
| 75° | 82.3 | 93.9 | 108.2 | *117.2* | 119.4 |
| 77.5° | 65.7 | 79.2 | 92.6 | *102.4* | 104.2 |
| 80° | 50.5 | 63.9 | 79.2 | *89.0* | 90.8 |
| 82.5° | 36.7 | 51.0 | 66.6 | *76.0* | 79.6 |
| 85° | 24.6 | 39.4 | 55.0 | *64.8* | 68.4 |
| 87.5° | 15.7 | 30.0 | 45.2 | *55.5* | 58.6 |
| 90° | 7.8 | 26.6 | 45.8 | *58.9* | 63.7 |
| 92.5° | 23.4 | 39.1 | 59.9 | *73.7* | 77.9 |
| 95° | 42.8 | 55.5 | 76.4 | *90.3* | 94.5 |
| 97.5° | 62.3 | 73.5 | 96.3 | *109.0* | 112.8 |
| 100° | 84.5 | 93.9 | 115.6 | *130.1* | 133.9 |
| 102.5° | 108.5 | 119.9 | 136.5 | *151.2* | 155.6 |
| 105° | 133.6 | 143.7 | 160.5 | *172.8* | 177.7 |
| 107.5° | 161.1 | 170.1 | 186.0 | *196.6* | 199.3 |
| 110° | 189.6 | 197.8 | 212.0 | *222.2* | 224.8 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1027914
CATALOG NUMBER: S125DIP-B375D610UB40-4F0-XX-W2A-D1

**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° |
|---|---|---|---|---|---|
| 112.5° | 219.1 | 224.4 | 238.6 | *247.3* | 249.3 |
| 115° | 247.7 | 253.1 | 265.8 | *273.4* | 275.5 |
| 117.5° | 276.8 | 279.7 | 292.0 | *300.2* | 301.0 |
| 120° | 304.1 | 308.3 | 319.2 | *326.8* | 327.1 |
| 122.5° | 333.2 | 334.2 | 345.8 | *352.3* | 353.3 |
| 125° | 359.4 | 362.3 | 371.9 | *377.8* | 379.6 |
| 127.5° | 387.9 | 389.2 | 397.4 | *403.5* | 405.1 |
| 130° | 413.5 | 415.9 | 423.3 | *429.0* | 430.1 |
| 132.5° | 438.7 | 443.8 | 447.7 | *453.3* | 453.4 |
| 135° | 465.9 | 468.9 | 472.6 | *478.4* | 478.3 |
| 137.5° | 491.5 | 494.4 | 497.4 | *503.3* | 502.3 |
| 140° | 515.5 | 518.3 | 520.5 | *526.6* | 525.5 |
| 142.5° | 539.9 | 541.8 | 544.1 | *548.6* | 547.6 |
| 145° | 563.8 | 565.7 | 567.4 | *569.6* | 569.7 |
| 147.5° | 585.6 | 587.3 | 588.4 | *591.0* | 587.4 |
| 150° | 607.7 | 607.2 | 609.4 | *609.4* | 608.7 |
| 152.5° | 625.9 | 627.1 | 627.6 | *629.3* | 627.1 |
| 155° | 644.7 | 644.7 | 645.3 | *647.5* | 644.7 |
| 157.5° | 661.7 | 660.6 | 661.2 | *663.5* | 659.5 |
| 160° | 676.5 | 674.8 | 675.4 | *677.7* | 674.8 |
| 162.5° | 689.6 | 688.5 | 688.5 | *691.3* | 687.9 |
| 165° | 701.0 | 699.8 | 700.4 | *702.7* | 699.3 |
| 167.5° | 711.2 | 708.9 | 708.9 | *712.3* | 708.9 |
| 170° | 719.2 | 716.9 | 716.9 | *720.3* | 716.3 |
| 172.5° | 724.8 | 722.6 | 722.6 | *726.0* | 722.6 |
| 175° | 728.8 | 726.6 | 726.6 | *730.0* | 726.0 |
| 177.5° | *731.7* | *729.4* | *728.8* | *732.2* | *728.3* |
| 180° | 730.5 | 730.5 | 730.5 | *730.5* | 730.5 |

(END OF REPORT)