

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: P1027864

Luminaire Tested: S125DIP-B375D375UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027864  
REPORT IS A COMBINATION OF REPORTS P1001980 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-F4  
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

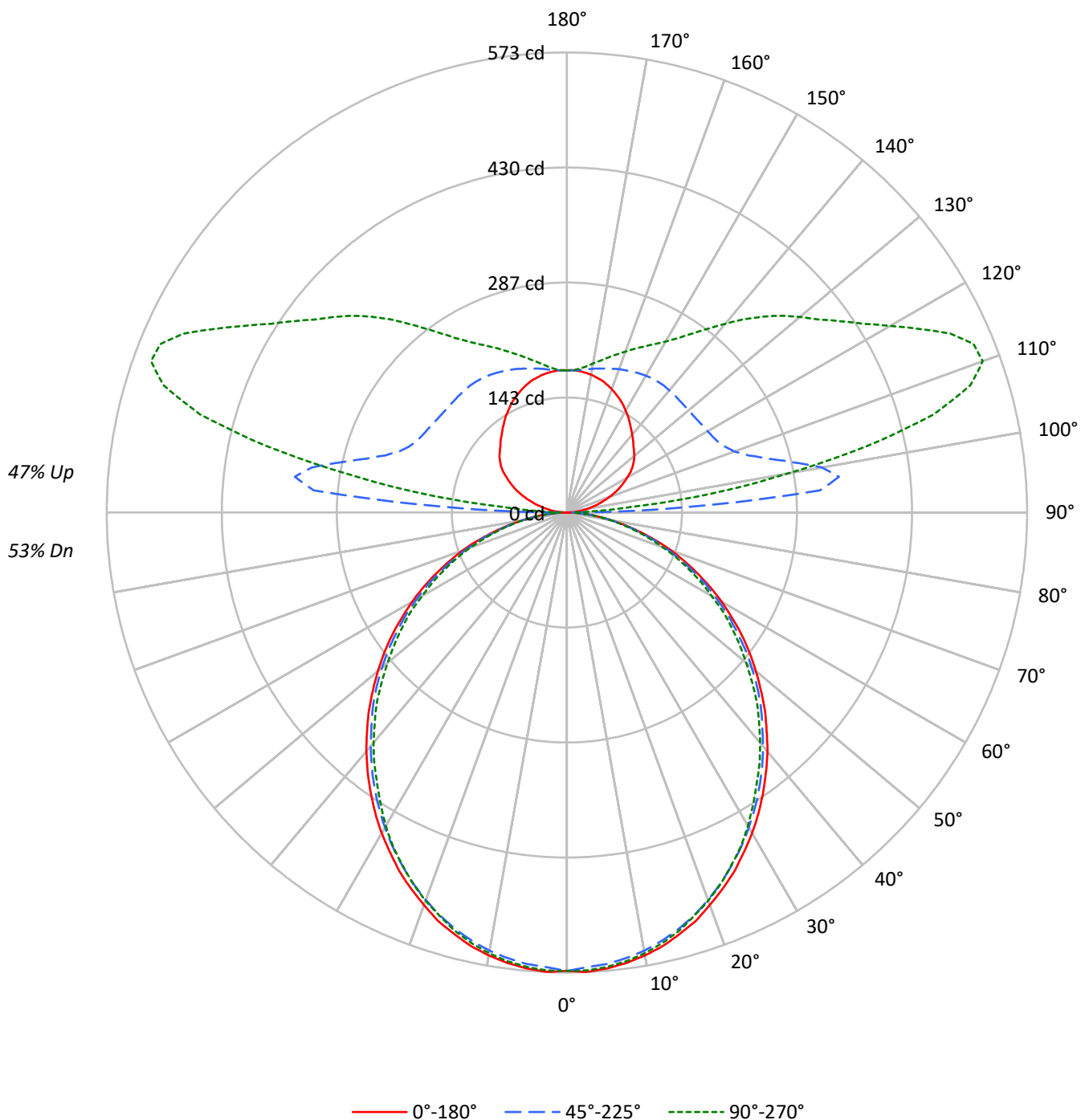
Lumens per Lamp: N/A  
Luminaire Lumens: 2819.7 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 59 | 59 | 59 |
| 1   | 98  | 94  | 90  | 86  | 91  | 87  | 84  | 81  | 74 | 72 | 70 | 63 | 61 | 59 | 52 | 51 | 49 |
| 2   | 90  | 82  | 76  | 71  | 83  | 76  | 71  | 66  | 65 | 61 | 58 | 55 | 52 | 49 | 45 | 43 | 42 |
| 3   | 82  | 72  | 65  | 59  | 75  | 67  | 60  | 55  | 57 | 52 | 48 | 49 | 45 | 42 | 40 | 38 | 35 |
| 4   | 75  | 64  | 56  | 50  | 69  | 59  | 52  | 47  | 51 | 46 | 41 | 43 | 39 | 36 | 36 | 33 | 30 |
| 5   | 69  | 57  | 49  | 43  | 63  | 53  | 46  | 40  | 46 | 40 | 36 | 39 | 34 | 31 | 32 | 29 | 26 |
| 6   | 63  | 51  | 43  | 37  | 58  | 48  | 40  | 35  | 41 | 35 | 31 | 35 | 31 | 27 | 29 | 26 | 23 |
| 7   | 58  | 46  | 38  | 32  | 54  | 43  | 36  | 31  | 37 | 32 | 27 | 32 | 27 | 24 | 27 | 23 | 21 |
| 8   | 54  | 42  | 34  | 29  | 50  | 39  | 32  | 27  | 34 | 28 | 24 | 29 | 25 | 21 | 25 | 21 | 19 |
| 9   | 50  | 38  | 31  | 26  | 47  | 36  | 29  | 24  | 31 | 26 | 22 | 27 | 22 | 19 | 23 | 19 | 17 |
| 10  | 47  | 35  | 28  | 23  | 44  | 33  | 26  | 22  | 29 | 23 | 20 | 25 | 20 | 17 | 21 | 18 | 15 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3658 | 3658 | 3658 |
| 5°  | 3658 | 3573 | 3580 |
| 10° | 3628 | 3491 | 3480 |
| 15° | 3580 | 3393 | 3363 |
| 20° | 3516 | 3280 | 3228 |
| 25° | 3446 | 3156 | 3084 |
| 30° | 3364 | 3026 | 2932 |
| 35° | 3274 | 2891 | 2761 |
| 40° | 3183 | 2748 | 2610 |
| 45° | 3083 | 2609 | 2450 |
| 50° | 2973 | 2451 | 2262 |
| 55° | 2865 | 2276 | 2090 |
| 60° | 2735 | 2092 | 1889 |
| 65° | 2580 | 1879 | 1682 |
| 70° | 2423 | 1635 | 1443 |
| 75° | 2158 | 1346 | 1167 |
| 80° | 1839 | 1005 | 859  |
| 85° | 1418 | 595  | 472  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3083 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.9   | 1.9       |
| 10°-20°   | 152.2  | 5.4       |
| 20°-30°   | 224.7  | 8.0       |
| 30°-40°   | 262.1  | 9.3       |
| 40°-50°   | 263.3  | 9.3       |
| 50°-60°   | 231.1  | 8.2       |
| 60°-70°   | 172.1  | 6.1       |
| 70°-80°   | 98.3   | 3.5       |
| 80°-90°   | 29.1   | 1.0       |
| 90°-100°  | 133.4  | 4.7       |
| 100°-110° | 277.0  | 9.8       |
| 110°-120° | 258.8  | 9.2       |
| 120°-130° | 209.4  | 7.4       |
| 130°-140° | 168.2  | 6.0       |
| 140°-150° | 127.0  | 4.5       |
| 150°-160° | 89.4   | 3.2       |
| 160°-170° | 52.7   | 1.9       |
| 170°-180° | 17.1   | 0.6       |
| 0°-30°    | 430.7  | 15.3      |
| 0°-40°    | 692.8  | 24.6      |
| 0°-60°    | 1187.2 | 42.1      |
| 0°-90°    | 1486.7 | 52.7      |
| 90°-120°  | 669.2  | 23.7      |
| 90°-150°  | 1173.8 | 41.6      |
| 90°-180°  | 1333.0 | 47.3      |
| 0°-180°   | 2819.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 571 | 571   | 571 | 571   | 571 |      |
| 5°   | 570 | 569   | 565 | 569   | 568 | 54   |
| 15°  | 543 | 542   | 537 | 539   | 539 | 153  |
| 25°  | 493 | 491   | 485 | 486   | 485 | 227  |
| 35°  | 426 | 424   | 418 | 416   | 412 | 266  |
| 45°  | 349 | 347   | 342 | 336   | 335 | 269  |
| 55°  | 266 | 264   | 258 | 254   | 251 | 237  |
| 65°  | 179 | 178   | 173 | 169   | 168 | 178  |
| 75°  | 95  | 94    | 92  | 91    | 89  | 101  |
| 85°  | 25  | 25    | 25  | 25    | 24  | 27   |
| 90°  | 0   | 3     | 6   | 8     | 8   | 3    |
| 95°  | 12  | 35    | 316 | 144   | 84  | 12   |
| 105° | 40  | 56    | 259 | 510   | 473 | 43   |
| 115° | 72  | 87    | 208 | 448   | 527 | 71   |
| 125° | 100 | 117   | 199 | 356   | 415 | 89   |
| 135° | 117 | 141   | 198 | 299   | 345 | 91   |
| 145° | 136 | 156   | 198 | 247   | 272 | 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°     | 570.9 | 570.9 | 570.9 | 570.9 | 570.9 |
| 2.5°   | 572.7 | 571.4 | 566.9 | 571.4 | 570.9 |
| 5°     | 570.0 | 569.1 | 564.6 | 568.7 | 568.2 |
| 7.5°   | 566.0 | 565.1 | 560.1 | 564.2 | 563.7 |
| 10°    | 560.1 | 559.2 | 554.2 | 557.8 | 557.4 |
| 12.5°  | 552.9 | 551.1 | 546.5 | 549.3 | 549.3 |
| 15°    | 543.4 | 542.0 | 537.1 | 539.3 | 539.3 |
| 17.5°  | 533.4 | 531.2 | 526.2 | 528.9 | 526.7 |
| 20°    | 520.3 | 519.4 | 513.6 | 516.7 | 514.5 |
| 22.5°  | 507.2 | 505.4 | 500.0 | 501.8 | 500.5 |
| 25°    | 493.2 | 491.0 | 485.1 | 486.0 | 484.7 |
| 27.5°  | 477.0 | 475.6 | 469.8 | 470.2 | 468.9 |
| 30°    | 461.2 | 459.8 | 453.0 | 452.1 | 450.8 |
| 32.5°  | 444.0 | 441.8 | 435.9 | 434.1 | 431.4 |
| 35°    | 425.9 | 424.1 | 417.8 | 415.6 | 411.9 |
| 37.5°  | 407.4 | 405.2 | 399.3 | 396.1 | 393.9 |
| 40°    | 388.5 | 386.2 | 379.9 | 375.8 | 374.4 |
| 42.5°  | 368.1 | 366.3 | 360.0 | 356.4 | 354.1 |
| 45°    | 348.7 | 346.9 | 341.5 | 336.1 | 334.7 |
| 47.5°  | 327.5 | 327.9 | 321.2 | 315.7 | 312.6 |
| 50°    | 307.1 | 305.8 | 300.4 | 294.5 | 291.3 |
| 52.5°  | 286.4 | 285.5 | 279.6 | 274.6 | 271.0 |
| 55°    | 265.6 | 264.2 | 257.9 | 253.8 | 250.7 |
| 57.5°  | 243.5 | 243.0 | 237.6 | 232.2 | 230.8 |
| 60°    | 222.7 | 220.9 | 215.9 | 211.4 | 208.2 |
| 62.5°  | 201.0 | 199.6 | 195.6 | 190.6 | 188.4 |
| 65°    | 179.3 | 178.4 | 173.4 | 169.4 | 167.6 |
| 67.5°  | 158.1 | 156.3 | 152.7 | 149.1 | 148.2 |
| 70°    | 138.2 | 136.0 | 131.9 | 129.2 | 127.4 |
| 72.5°  | 116.5 | 115.2 | 112.9 | 109.8 | 108.0 |
| 75°    | 95.3  | 94.4  | 92.1  | 90.8  | 89.0  |
| 77.5°  | 75.4  | 75.0  | 73.6  | 72.7  | 71.4  |
| 80°    | 56.9  | 56.9  | 56.0  | 55.6  | 54.7  |
| 82.5°  | 40.7  | 39.7  | 39.7  | 38.8  | 38.8  |
| 85°    | 24.8  | 25.3  | 25.3  | 24.8  | 23.9  |
| 87.5°  | 12.2  | 12.2  | 11.7  | 11.7  | 10.8  |
| 90°    | 0.4   | 3.2   | 5.7   | 7.5   | 8.2   |
| 92.5°  | 5.4   | 29.3  | 142.5 | 38.0  | 26.4  |
| 95°    | 11.8  | 34.8  | 316.4 | 143.6 | 83.9  |
| 97.5°  | 18.2  | 37.7  | 341.7 | 259.2 | 183.9 |
| 100°   | 25.0  | 43.2  | 322.4 | 366.4 | 278.5 |
| 102.5° | 32.5  | 49.4  | 288.5 | 457.0 | 384.2 |
| 105°   | 40.4  | 56.4  | 258.9 | 509.8 | 473.1 |
| 107.5° | 47.8  | 63.8  | 236.7 | 524.6 | 526.7 |
| 110°   | 56.1  | 71.4  | 222.1 | 510.4 | 551.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 64.3  | 79.1  | 213.5 | 481.0 | 548.1 |
| 115°   | 72.1  | 87.0  | 207.8 | 448.0 | 527.1 |
| 117.5° | 79.3  | 95.0  | 204.6 | 418.0 | 495.3 |
| 120°   | 86.4  | 102.6 | 202.5 | 392.8 | 464.6 |
| 122.5° | 93.9  | 110.2 | 200.7 | 372.6 | 437.4 |
| 125°   | 100.0 | 117.2 | 199.3 | 356.4 | 415.3 |
| 127.5° | 105.0 | 124.0 | 198.5 | 342.5 | 394.9 |
| 130°   | 109.6 | 130.4 | 197.8 | 328.3 | 378.9 |
| 132.5° | 113.2 | 136.0 | 197.8 | 313.2 | 362.8 |
| 135°   | 117.1 | 140.8 | 197.8 | 298.7 | 344.9 |
| 137.5° | 122.1 | 145.3 | 198.2 | 283.6 | 326.4 |
| 140°   | 126.4 | 149.1 | 198.5 | 269.6 | 306.7 |
| 142.5° | 131.4 | 152.6 | 198.9 | 257.6 | 288.5 |
| 145°   | 136.4 | 156.2 | 198.5 | 247.3 | 272.1 |
| 147.5° | 141.8 | 159.4 | 197.8 | 238.4 | 257.5 |
| 150°   | 146.4 | 162.3 | 196.8 | 231.0 | 245.7 |
| 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)