

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: P1027844

Luminaire Tested: S125DIP-B375D375UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027844  
REPORT IS A COMBINATION OF REPORTS P1001945 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B375D375UB27-4F0-XX-W2A-F  
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

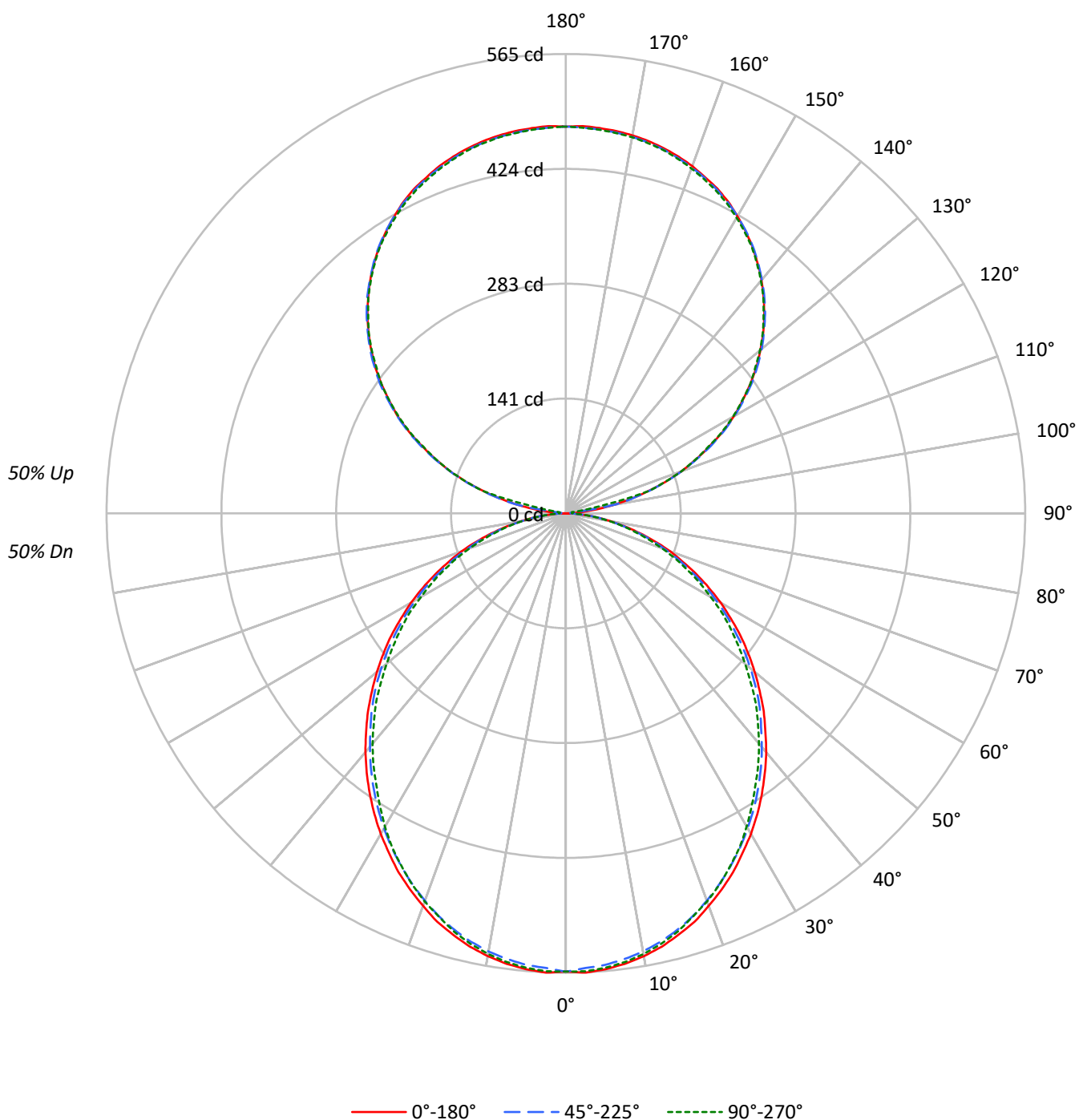
Lumens per Lamp: N/A  
Luminaire Lumens: 2929.0 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 |
| 1   | 98  | 93  | 89  | 86  | 90 | 86 | 83 | 80 | 73 | 71 | 68 | 61 | 59 | 58 | 50 | 48 | 47 |
| 2   | 89  | 82  | 75  | 70  | 82 | 75 | 70 | 66 | 64 | 60 | 57 | 53 | 51 | 48 | 44 | 42 | 40 |
| 3   | 81  | 72  | 64  | 58  | 75 | 66 | 60 | 55 | 56 | 52 | 48 | 47 | 44 | 41 | 39 | 36 | 34 |
| 4   | 74  | 63  | 55  | 49  | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 35 | 35 | 32 | 29 |
| 5   | 68  | 56  | 48  | 42  | 63 | 52 | 45 | 40 | 45 | 39 | 35 | 38 | 33 | 30 | 31 | 28 | 25 |
| 6   | 63  | 51  | 42  | 37  | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 |
| 7   | 58  | 46  | 38  | 32  | 53 | 43 | 35 | 30 | 37 | 31 | 27 | 31 | 27 | 23 | 26 | 22 | 20 |
| 8   | 54  | 41  | 34  | 28  | 50 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 24 | 20 | 18 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 29 | 24 | 31 | 25 | 21 | 26 | 22 | 19 | 22 | 19 | 16 |
| 10  | 47  | 35  | 27  | 23  | 43 | 32 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 15 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3611 | 3611 | 3611 |
| 5°  | 3611 | 3528 | 3534 |
| 10° | 3581 | 3446 | 3436 |
| 15° | 3534 | 3350 | 3320 |
| 20° | 3471 | 3238 | 3187 |
| 25° | 3402 | 3115 | 3045 |
| 30° | 3321 | 2988 | 2894 |
| 35° | 3232 | 2855 | 2726 |
| 40° | 3142 | 2713 | 2577 |
| 45° | 3043 | 2575 | 2418 |
| 50° | 2935 | 2419 | 2233 |
| 55° | 2828 | 2247 | 2063 |
| 60° | 2700 | 2065 | 1865 |
| 65° | 2547 | 1855 | 1660 |
| 70° | 2391 | 1614 | 1424 |
| 75° | 2131 | 1330 | 1151 |
| 80° | 1816 | 993  | 848  |
| 85° | 1401 | 588  | 466  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 3043 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.2   | 1.8       |
| 10°-20°   | 150.2  | 5.1       |
| 20°-30°   | 221.8  | 7.6       |
| 30°-40°   | 258.8  | 8.8       |
| 40°-50°   | 259.9  | 8.9       |
| 50°-60°   | 228.1  | 7.8       |
| 60°-70°   | 169.9  | 5.8       |
| 70°-80°   | 97.1   | 3.3       |
| 80°-90°   | 28.7   | 1.0       |
| 90°-100°  | 16.1   | 0.6       |
| 100°-110° | 107.4  | 3.7       |
| 110°-120° | 193.3  | 6.6       |
| 120°-130° | 248.2  | 8.5       |
| 130°-140° | 266.9  | 9.1       |
| 140°-150° | 250.5  | 8.6       |
| 150°-160° | 202.6  | 6.9       |
| 160°-170° | 131.0  | 4.5       |
| 170°-180° | 45.2   | 1.5       |
| 0°-30°    | 425.2  | 14.5      |
| 0°-40°    | 684.0  | 23.4      |
| 0°-60°    | 1172.0 | 40.0      |
| 0°-90°    | 1467.7 | 50.1      |
| 90°-120°  | 316.8  | 10.8      |
| 90°-150°  | 1082.4 | 37.0      |
| 90°-180°  | 1461.0 | 49.9      |
| 0°-180°   | 2929.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 564 | 564   | 564 | 564   | 564 |      |
| 5°   | 563 | 562   | 557 | 561   | 561 | 53   |
| 15°  | 536 | 535   | 530 | 532   | 532 | 151  |
| 25°  | 487 | 485   | 479 | 480   | 478 | 224  |
| 35°  | 420 | 419   | 412 | 410   | 407 | 263  |
| 45°  | 344 | 342   | 337 | 332   | 330 | 265  |
| 55°  | 262 | 261   | 255 | 251   | 248 | 234  |
| 65°  | 177 | 176   | 171 | 167   | 165 | 176  |
| 75°  | 94  | 93    | 91  | 90    | 88  | 100  |
| 85°  | 24  | 25    | 25  | 24    | 24  | 27   |
| 90°  | 0   | 3     | 6   | 7     | 8   | 3    |
| 95°  | 20  | 19    | 6   | 7     | 7   | 25   |
| 105° | 104 | 105   | 105 | 105   | 105 | 110  |
| 115° | 195 | 196   | 197 | 195   | 193 | 193  |
| 125° | 277 | 279   | 279 | 278   | 277 | 247  |
| 135° | 345 | 347   | 347 | 346   | 344 | 266  |
| 145° | 400 | 401   | 401 | 401   | 399 | 250  |
| 155° | 441 | 439   | 439 | 440   | 438 | 203  |
| 165° | 465 | 463   | 463 | 466   | 463 | 131  |
| 175° | 476 | 474   | 474 | 477   | 474 | 45   |
| 180° | 476 | 476   | 476 | 476   | 476 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 |
| 2.5°   | 565.4 | 564.1 | 559.6 | 564.1 | 563.6 |
| 5°     | 562.7 | 561.9 | 557.4 | 561.4 | 561.0 |
| 7.5°   | 558.7 | 557.8 | 552.9 | 556.9 | 556.5 |
| 10°    | 552.9 | 552.0 | 547.1 | 550.7 | 550.3 |
| 12.5°  | 545.8 | 544.0 | 539.6 | 542.2 | 542.2 |
| 15°    | 536.4 | 535.1 | 530.2 | 532.4 | 532.4 |
| 17.5°  | 526.6 | 524.4 | 519.5 | 522.2 | 519.9 |
| 20°    | 513.7 | 512.8 | 507.0 | 510.1 | 507.9 |
| 22.5°  | 500.8 | 499.0 | 493.6 | 495.4 | 494.1 |
| 25°    | 486.9 | 484.7 | 478.9 | 479.8 | 478.5 |
| 27.5°  | 470.9 | 469.5 | 463.7 | 464.2 | 462.9 |
| 30°    | 455.3 | 453.9 | 447.3 | 446.4 | 445.0 |
| 32.5°  | 438.3 | 436.1 | 430.3 | 428.5 | 425.8 |
| 35°    | 420.5 | 418.7 | 412.5 | 410.2 | 406.7 |
| 37.5°  | 402.2 | 400.0 | 394.2 | 391.1 | 388.8 |
| 40°    | 383.5 | 381.3 | 375.0 | 371.0 | 369.7 |
| 42.5°  | 363.4 | 361.6 | 355.4 | 351.8 | 349.6 |
| 45°    | 344.2 | 342.5 | 337.1 | 331.8 | 330.4 |
| 47.5°  | 323.3 | 323.7 | 317.0 | 311.7 | 308.6 |
| 50°    | 303.2 | 301.9 | 296.5 | 290.7 | 287.6 |
| 52.5°  | 282.7 | 281.8 | 276.0 | 271.1 | 267.5 |
| 55°    | 262.2 | 260.9 | 254.6 | 250.6 | 247.5 |
| 57.5°  | 240.3 | 239.9 | 234.6 | 229.2 | 227.9 |
| 60°    | 219.8 | 218.1 | 213.1 | 208.7 | 205.6 |
| 62.5°  | 198.4 | 197.1 | 193.1 | 188.2 | 185.9 |
| 65°    | 177.0 | 176.1 | 171.2 | 167.2 | 165.4 |
| 67.5°  | 156.1 | 154.3 | 150.7 | 147.2 | 146.3 |
| 70°    | 136.4 | 134.2 | 130.2 | 127.5 | 125.7 |
| 72.5°  | 115.0 | 113.7 | 111.5 | 108.4 | 106.6 |
| 75°    | 94.1  | 93.2  | 91.0  | 89.6  | 87.8  |
| 77.5°  | 74.5  | 74.0  | 72.7  | 71.8  | 70.5  |
| 80°    | 56.2  | 56.2  | 55.3  | 54.8  | 54.0  |
| 82.5°  | 40.1  | 39.2  | 39.2  | 38.3  | 38.3  |
| 85°    | 24.5  | 25.0  | 25.0  | 24.5  | 23.6  |
| 87.5°  | 12.0  | 12.0  | 11.6  | 11.6  | 10.7  |
| 90°    | 0.4   | 3.2   | 5.6   | 7.4   | 8.5   |
| 92.5°  | 6.7   | 3.5   | 5.6   | 7.4   | 7.8   |
| 95°    | 20.1  | 19.0  | 5.6   | 7.4   | 7.4   |
| 97.5°  | 37.7  | 39.8  | 6.3   | 7.1   | 7.4   |
| 100°   | 58.9  | 59.9  | 61.4  | 8.8   | 7.4   |
| 102.5° | 80.4  | 81.8  | 82.5  | 83.2  | 53.6  |
| 105°   | 103.7 | 105.1 | 105.1 | 105.1 | 104.7 |
| 107.5° | 127.7 | 127.7 | 128.4 | 128.7 | 127.3 |
| 110°   | 150.9 | 150.9 | 151.6 | 150.6 | 150.9 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 172.8 | 173.9 | 174.2 | 172.8 | 172.1 |
| 115°   | 194.7 | 196.4 | 196.8 | 195.4 | 193.2 |
| 117.5° | 217.6 | 217.6 | 219.0 | 216.9 | 216.2 |
| 120°   | 238.7 | 238.4 | 239.4 | 238.7 | 237.0 |
| 122.5° | 257.4 | 259.2 | 259.5 | 258.8 | 256.7 |
| 125°   | 276.8 | 279.3 | 279.3 | 277.9 | 276.8 |
| 127.5° | 295.5 | 297.3 | 296.9 | 296.2 | 293.4 |
| 130°   | 312.4 | 314.2 | 314.6 | 313.5 | 311.7 |
| 132.5° | 329.4 | 331.5 | 330.4 | 330.4 | 328.7 |
| 135°   | 345.2 | 347.4 | 346.6 | 345.9 | 343.8 |
| 137.5° | 360.0 | 362.2 | 361.5 | 361.5 | 359.7 |
| 140°   | 374.5 | 375.2 | 374.9 | 375.6 | 373.4 |
| 142.5° | 387.6 | 387.9 | 388.6 | 388.6 | 386.5 |
| 145°   | 400.2 | 401.0 | 401.0 | 401.3 | 399.2 |
| 147.5° | 411.5 | 411.5 | 411.9 | 412.2 | 409.8 |
| 150°   | 422.1 | 421.4 | 422.1 | 422.8 | 420.0 |
| 152.5° | 432.3 | 430.6 | 431.3 | 432.0 | 429.5 |
| 155°   | 440.8 | 438.7 | 439.4 | 440.5 | 437.6 |
| 157.5° | 447.5 | 446.4 | 446.4 | 447.5 | 444.7 |
| 160°   | 454.6 | 452.4 | 452.8 | 454.2 | 451.4 |
| 162.5° | 460.2 | 458.1 | 458.4 | 460.6 | 457.4 |
| 165°   | 465.1 | 463.0 | 463.4 | 465.5 | 462.7 |
| 167.5° | 469.0 | 466.9 | 467.3 | 469.7 | 466.5 |
| 170°   | 472.2 | 469.7 | 470.1 | 472.9 | 469.7 |
| 172.5° | 474.3 | 471.8 | 472.5 | 475.0 | 471.8 |
| 175°   | 475.7 | 473.6 | 474.0 | 476.8 | 473.6 |
| 177.5° | 476.8 | 474.7 | 475.0 | 477.5 | 474.7 |
| 180°   | 475.7 | 475.7 | 475.7 | 475.7 | 475.7 |

(END OF REPORT)