

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: P1056438

Luminaire Tested: S125R3DR-S375D950-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-10)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S375D950-X4F0-XX-UDD-FLL-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

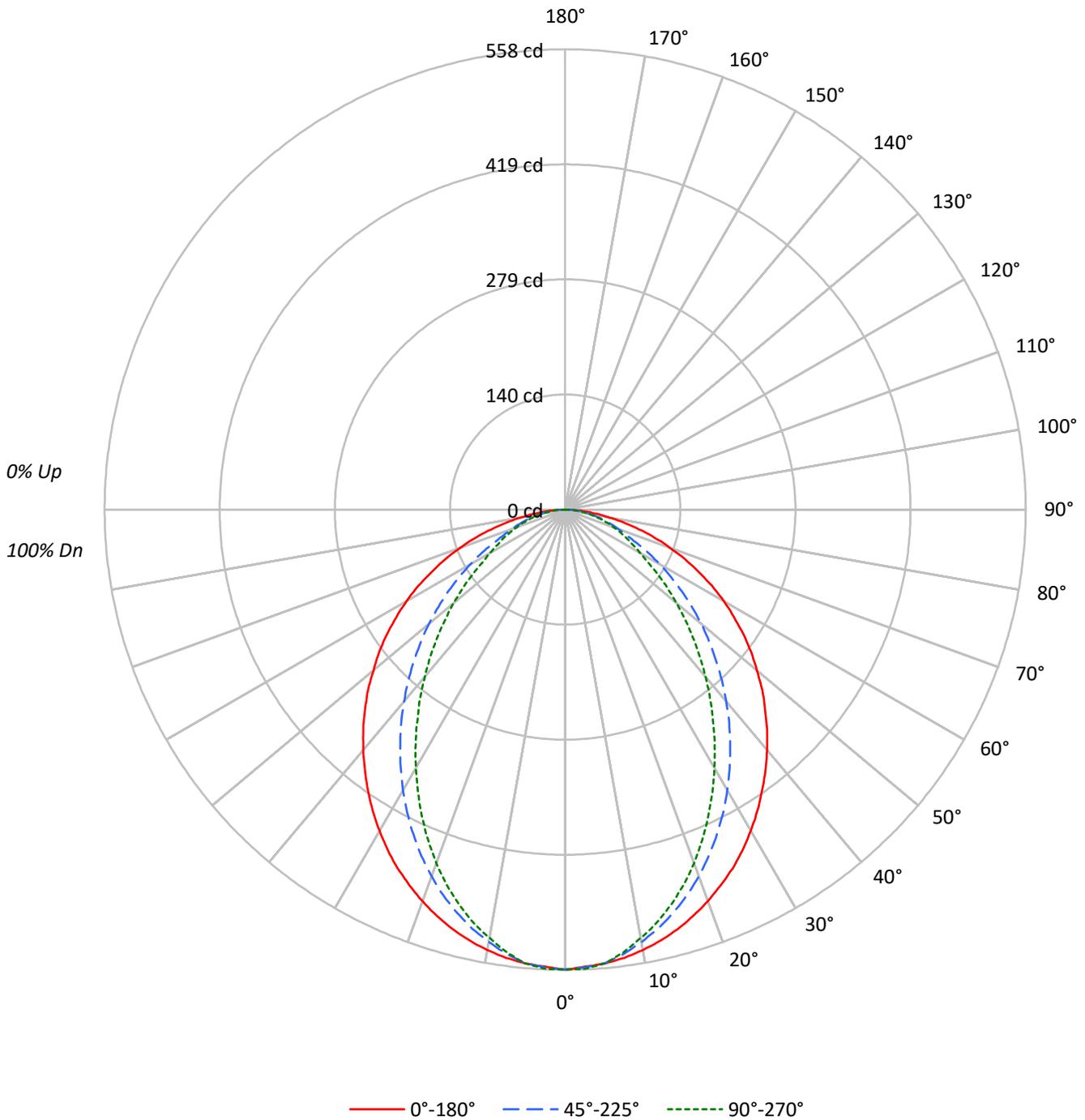
Lumens per Lamp: N/A
Luminaire Lumens: 1182.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 12.6
Input Voltage (V): 120
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





TEST NUMBER: P1056438

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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 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | 100 | | | | | | | | | | | | | | | |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 100 | 96 | 99 | 96 | 93 | 95 | 93 | 90 | 91 | 90 | 88 | 86 | | | | | | | | | | | | | 86 | | | | | | | | | | | | | | | |
| 2 | 101 | 93 | 87 | 81 | 98 | 91 | 85 | 80 | 88 | 83 | 79 | 84 | 80 | 77 | 81 | 78 | 75 | 73 | | | | | | | | | | | | | 73 | | | | | | | | | | | | | | | |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 63 | | | | | | | | | | | | | 63 | | | | | | | | | | | | | | | |
| 4 | 85 | 74 | 66 | 59 | 83 | 73 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 55 | | | | | | | | | | | | | 55 | | | | | | | | | | | | | | | |
| 5 | 79 | 67 | 58 | 52 | 77 | 66 | 58 | 52 | 63 | 56 | 51 | 62 | 55 | 51 | 60 | 54 | 50 | 48 | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | |
| 6 | 73 | 60 | 52 | 46 | 71 | 59 | 51 | 46 | 58 | 51 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 43 | | | | | | | | | | | | | 43 | | | | | | | | | | | | | | | |
| 7 | 68 | 55 | 47 | 41 | 66 | 54 | 46 | 41 | 53 | 46 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | | | | | | 38 | | | | | | | | | | | | | | | |
| 8 | 63 | 51 | 42 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | | | | | | 34 | | | | | | | | | | | | | | | |
| 9 | 59 | 47 | 39 | 33 | 58 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | | | | | | | | | | | 31 | | | | | | | | | | | | | | | |
| 10 | 56 | 43 | 36 | 31 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | | | | | | | | | 28 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3943 | 3943 | 3943 |
| 5° | 3919 | 3916 | 3919 |
| 10° | 3893 | 3821 | 3786 |
| 15° | 3853 | 3705 | 3629 |
| 20° | 3801 | 3561 | 3433 |
| 25° | 3744 | 3392 | 3200 |
| 30° | 3671 | 3206 | 2953 |
| 35° | 3591 | 3007 | 2695 |
| 40° | 3510 | 2801 | 2441 |
| 45° | 3425 | 2586 | 2187 |
| 50° | 3333 | 2366 | 1937 |
| 55° | 3250 | 2124 | 1684 |
| 60° | 3135 | 1866 | 1479 |
| 65° | 2979 | 1584 | 1375 |
| 70° | 2799 | 1416 | 1288 |
| 75° | 2529 | 1306 | 1213 |
| 80° | 2198 | 1185 | 1132 |
| 85° | 1720 | 1046 | 1046 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3425 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.2 | 4.4 |
| 10°-20° | 143.3 | 12.1 |
| 20°-30° | 202.4 | 17.1 |
| 30°-40° | 222.8 | 18.8 |
| 40°-50° | 207.8 | 17.6 |
| 50°-60° | 165.9 | 14.0 |
| 60°-70° | 111.6 | 9.4 |
| 70°-80° | 59.5 | 5.0 |
| 80°-90° | 16.5 | 1.4 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 397.8 | 33.7 |
| 0°-40° | 620.6 | 52.5 |
| 0°-60° | 994.3 | 84.1 |
| 0°-90° | 1182.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1182.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 558 | 558 | 558 | 558 | 558 | |
| 5° | 552 | 557 | 552 | 550 | 552 | 52 |
| 15° | 526 | 524 | 506 | 498 | 496 | 148 |
| 25° | 480 | 466 | 435 | 416 | 410 | 221 |
| 35° | 416 | 392 | 348 | 321 | 312 | 260 |
| 45° | 343 | 310 | 259 | 227 | 219 | 265 |
| 55° | 264 | 224 | 172 | 145 | 137 | 235 |
| 65° | 178 | 139 | 95 | 84 | 82 | 177 |
| 75° | 93 | 62 | 48 | 45 | 44 | 99 |
| 85° | 21 | 14 | 13 | 13 | 13 | 25 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1056438

CATALOG NUMBER: S125R3DR-S375D950-X4F0-XX-UDD-FLL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 557.7 | 557.7 | 557.7 | 557.7 | 557.7 |
| 2.5° | 554.8 | 559.3 | 555.6 | 556.4 | 557.2 |
| 5° | 552.3 | 556.8 | 551.8 | 550.2 | 552.3 |
| 7.5° | 548.1 | 551.8 | 543.5 | 539.8 | 541.5 |
| 10° | 542.3 | 544.8 | 532.3 | 527.4 | 527.4 |
| 12.5° | 535.2 | 535.2 | 520.3 | 513.2 | 513.2 |
| 15° | 526.5 | 523.6 | 506.2 | 497.5 | 495.8 |
| 17.5° | 516.6 | 511.2 | 490.4 | 479.2 | 477.1 |
| 20° | 505.3 | 496.6 | 473.4 | 458.8 | 456.3 |
| 22.5° | 492.9 | 481.7 | 454.7 | 436.8 | 433.9 |
| 25° | 480.0 | 465.5 | 434.8 | 415.7 | 410.3 |
| 27.5° | 465.5 | 448.0 | 414.4 | 392.8 | 386.2 |
| 30° | 449.7 | 429.8 | 392.8 | 368.7 | 361.7 |
| 32.5° | 433.5 | 411.1 | 370.8 | 345.1 | 337.2 |
| 35° | 416.1 | 391.6 | 348.4 | 321.0 | 312.3 |
| 37.5° | 398.6 | 372.1 | 326.4 | 297.7 | 288.6 |
| 40° | 380.4 | 351.3 | 303.5 | 274.1 | 264.5 |
| 42.5° | 362.1 | 330.9 | 281.1 | 251.2 | 241.3 |
| 45° | 342.6 | 310.2 | 258.7 | 227.1 | 218.8 |
| 47.5° | 323.9 | 289.0 | 236.7 | 206.0 | 196.8 |
| 50° | 303.1 | 267.0 | 215.1 | 184.4 | 176.1 |
| 52.5° | 284.0 | 245.4 | 193.5 | 164.8 | 156.1 |
| 55° | 263.7 | 223.8 | 172.3 | 144.9 | 136.6 |
| 57.5° | 242.5 | 202.2 | 152.0 | 126.2 | 118.3 |
| 60° | 221.7 | 180.6 | 132.0 | 108.4 | 104.6 |
| 62.5° | 200.6 | 160.3 | 113.4 | 95.1 | 92.6 |
| 65° | 178.1 | 139.1 | 94.7 | 83.9 | 82.2 |
| 67.5° | 157.0 | 118.8 | 79.7 | 73.5 | 71.8 |
| 70° | 135.4 | 98.4 | 68.5 | 63.1 | 62.3 |
| 72.5° | 114.2 | 78.9 | 57.7 | 54.0 | 53.2 |
| 75° | 92.6 | 61.5 | 47.8 | 44.8 | 44.4 |
| 77.5° | 72.7 | 46.1 | 37.8 | 36.5 | 35.7 |
| 80° | 54.0 | 34.5 | 29.1 | 28.2 | 27.8 |
| 82.5° | 37.0 | 23.7 | 20.8 | 20.8 | 19.9 |
| 85° | 21.2 | 14.5 | 12.9 | 13.3 | 12.9 |
| 87.5° | 7.9 | 6.2 | 5.8 | 6.2 | 6.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)