

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: P1056435

Luminaire Tested: S125R3DR-S375D940-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056435
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-S375D940-X4F0-XX-UDD-FLL-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

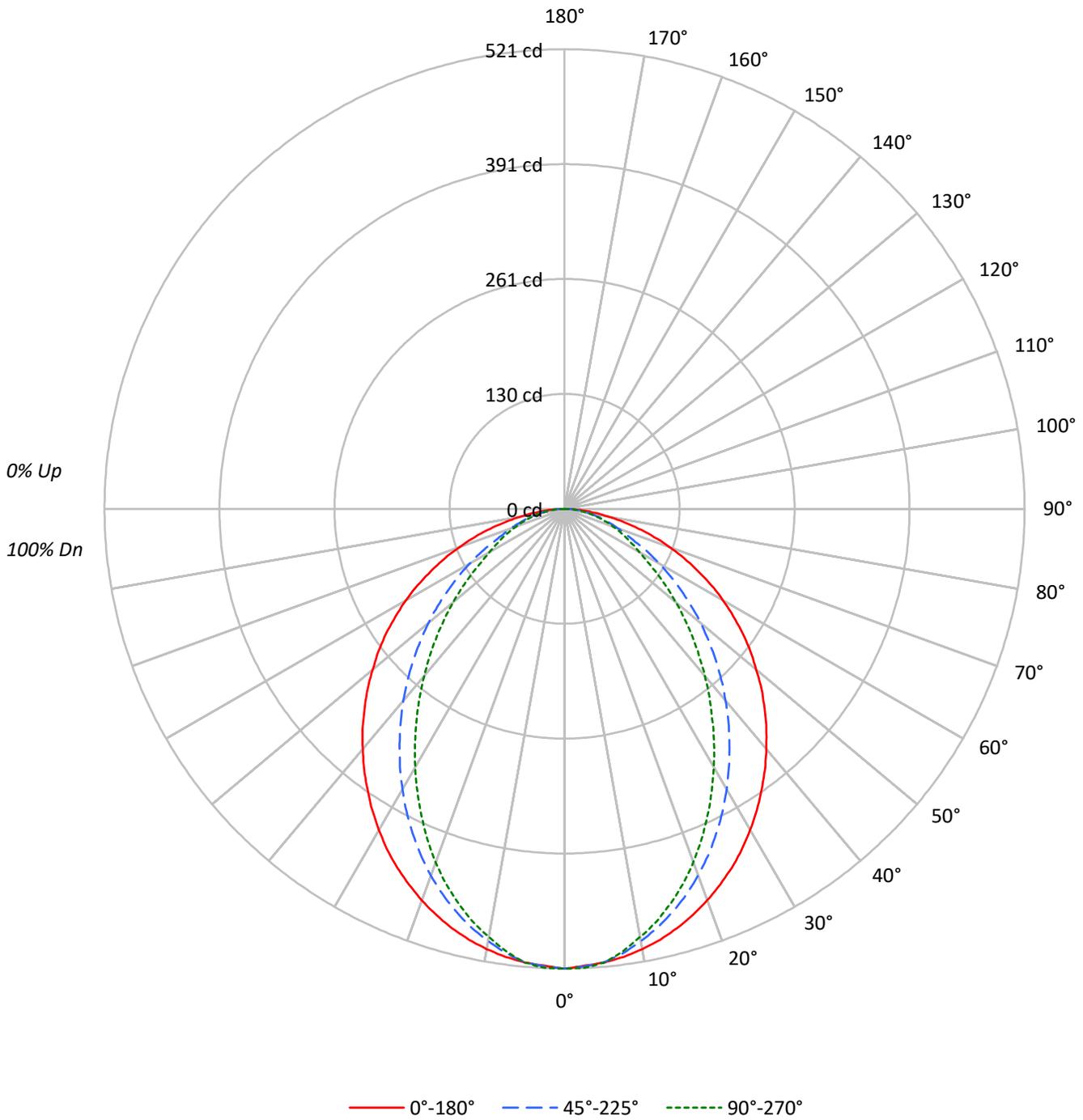
Lumens per Lamp: N/A
Luminaire Lumens: 1104.8 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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: P1056435

CATALOG NUMBER: S125R3DR-S375D940-X4F0-XX-UDD-FLL-W

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3685 | 3685 | 3685 |
| 5° | 3663 | 3660 | 3663 |
| 10° | 3639 | 3572 | 3538 |
| 15° | 3602 | 3462 | 3391 |
| 20° | 3553 | 3329 | 3209 |
| 25° | 3500 | 3170 | 2991 |
| 30° | 3431 | 2997 | 2760 |
| 35° | 3356 | 2810 | 2519 |
| 40° | 3281 | 2618 | 2281 |
| 45° | 3201 | 2417 | 2044 |
| 50° | 3116 | 2211 | 1810 |
| 55° | 3038 | 1986 | 1574 |
| 60° | 2931 | 1745 | 1383 |
| 65° | 2785 | 1480 | 1285 |
| 70° | 2615 | 1323 | 1203 |
| 75° | 2365 | 1218 | 1134 |
| 80° | 2056 | 1107 | 1058 |
| 85° | 1606 | 973 | 973 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3201 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.8 | 4.4 |
| 10°-20° | 133.9 | 12.1 |
| 20°-30° | 189.2 | 17.1 |
| 30°-40° | 208.2 | 18.8 |
| 40°-50° | 194.2 | 17.6 |
| 50°-60° | 155.1 | 14.0 |
| 60°-70° | 104.3 | 9.4 |
| 70°-80° | 55.6 | 5.0 |
| 80°-90° | 15.4 | 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° | 371.8 | 33.7 |
| 0°-40° | 580.1 | 52.5 |
| 0°-60° | 929.4 | 84.1 |
| 0°-90° | 1104.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1104.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 521 | 521 | 521 | 521 | 521 | |
| 5° | 516 | 520 | 516 | 514 | 516 | 49 |
| 15° | 492 | 489 | 473 | 465 | 463 | 139 |
| 25° | 449 | 435 | 406 | 388 | 384 | 207 |
| 35° | 389 | 366 | 326 | 300 | 292 | 243 |
| 45° | 320 | 290 | 242 | 212 | 204 | 247 |
| 55° | 246 | 209 | 161 | 136 | 128 | 220 |
| 65° | 166 | 130 | 88 | 78 | 77 | 165 |
| 75° | 87 | 57 | 45 | 42 | 42 | 92 |
| 85° | 20 | 14 | 12 | 12 | 12 | 24 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1056435

CATALOG NUMBER: S125R3DR-S375D940-X4F0-XX-UDD-FLL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 521.3 | 521.3 | 521.3 | 521.3 | 521.3 |
| 2.5° | 518.5 | 522.8 | 519.3 | 520.1 | 520.9 |
| 5° | 516.2 | 520.5 | 515.8 | 514.3 | 516.2 |
| 7.5° | 512.3 | 515.8 | 508.1 | 504.6 | 506.1 |
| 10° | 506.9 | 509.2 | 497.6 | 492.9 | 492.9 |
| 12.5° | 500.3 | 500.3 | 486.3 | 479.7 | 479.7 |
| 15° | 492.1 | 489.4 | 473.1 | 465.0 | 463.4 |
| 17.5° | 482.8 | 477.8 | 458.4 | 447.9 | 446.0 |
| 20° | 472.3 | 464.2 | 442.5 | 428.9 | 426.5 |
| 22.5° | 460.7 | 450.2 | 425.0 | 408.3 | 405.6 |
| 25° | 448.7 | 435.1 | 406.4 | 388.5 | 383.5 |
| 27.5° | 435.1 | 418.8 | 387.3 | 367.2 | 361.0 |
| 30° | 420.3 | 401.7 | 367.2 | 344.7 | 338.1 |
| 32.5° | 405.2 | 384.2 | 346.6 | 322.5 | 315.2 |
| 35° | 388.9 | 366.0 | 325.6 | 300.0 | 291.9 |
| 37.5° | 372.6 | 347.8 | 305.1 | 278.3 | 269.7 |
| 40° | 355.5 | 328.4 | 283.7 | 256.2 | 247.2 |
| 42.5° | 338.4 | 309.3 | 262.8 | 234.8 | 225.5 |
| 45° | 320.2 | 289.9 | 241.8 | 212.3 | 204.5 |
| 47.5° | 302.7 | 270.1 | 221.2 | 192.5 | 184.0 |
| 50° | 283.3 | 249.6 | 201.0 | 172.3 | 164.6 |
| 52.5° | 265.5 | 229.4 | 180.9 | 154.1 | 145.9 |
| 55° | 246.5 | 209.2 | 161.1 | 135.5 | 127.7 |
| 57.5° | 226.7 | 189.0 | 142.1 | 118.0 | 110.6 |
| 60° | 207.3 | 168.8 | 123.4 | 101.3 | 97.8 |
| 62.5° | 187.5 | 149.8 | 106.0 | 88.9 | 86.6 |
| 65° | 166.5 | 130.0 | 88.5 | 78.4 | 76.8 |
| 67.5° | 146.7 | 111.0 | 74.5 | 68.7 | 67.1 |
| 70° | 126.5 | 92.0 | 64.0 | 59.0 | 58.2 |
| 72.5° | 106.7 | 73.7 | 53.9 | 50.5 | 49.7 |
| 75° | 86.6 | 57.4 | 44.6 | 41.9 | 41.5 |
| 77.5° | 67.9 | 43.1 | 35.3 | 34.2 | 33.4 |
| 80° | 50.5 | 32.2 | 27.2 | 26.4 | 26.0 |
| 82.5° | 34.5 | 22.1 | 19.4 | 19.4 | 18.6 |
| 85° | 19.8 | 13.6 | 12.0 | 12.4 | 12.0 |
| 87.5° | 7.4 | 5.8 | 5.4 | 5.8 | 5.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)