

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334326

Luminaire Tested: **S125DS-S610D935-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DS-S610D935-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT LED LUMINAIRE, DROP SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 610 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1953.4 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

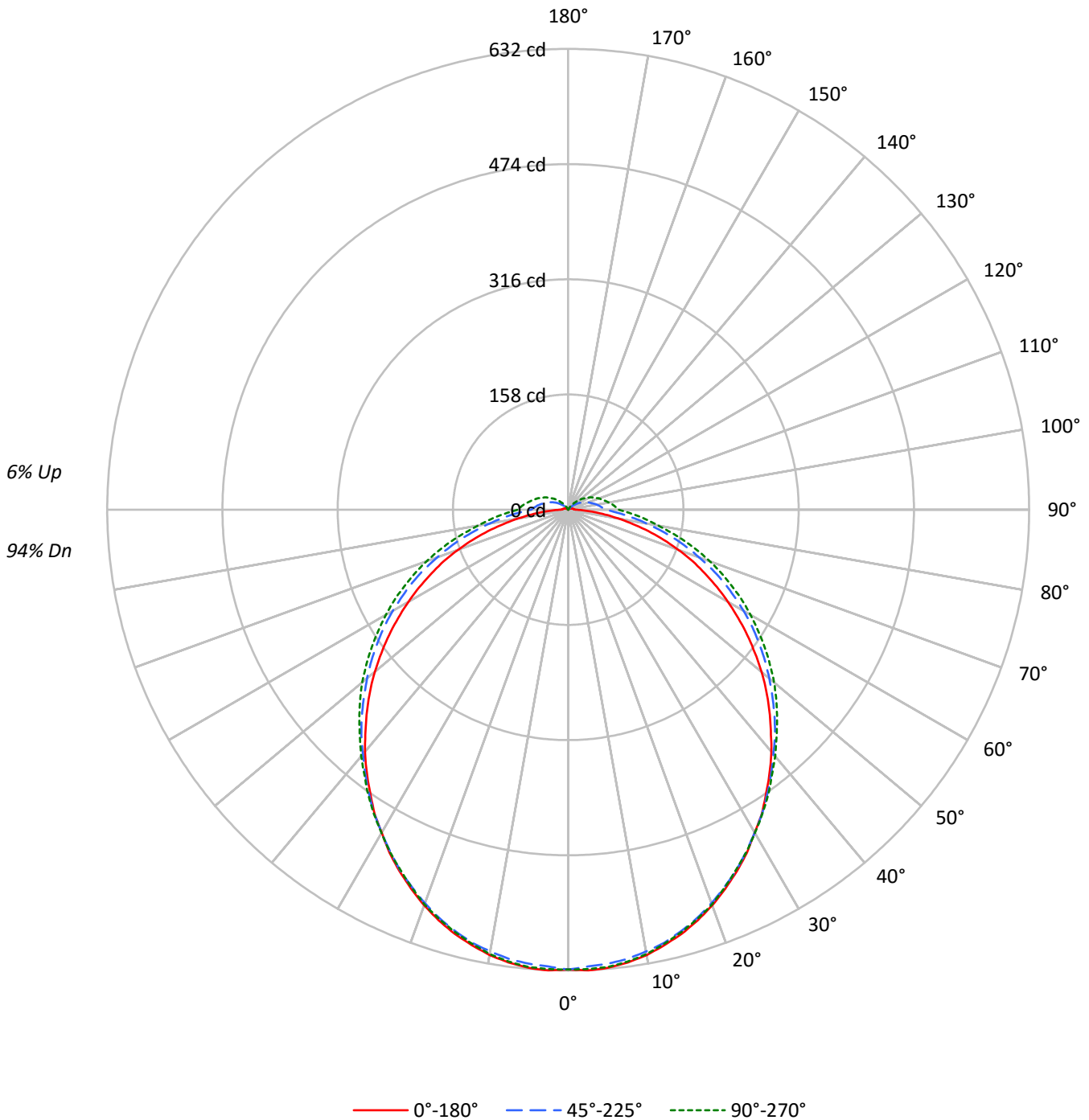
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P334326

CATALOG NUMBER: S125DS-S610D935-4F0-1E-UDD-D

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| RF | 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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 94 |
| 1 | 106 | 101 | 96 | 92 | 103 | 98 | 94 | 90 | 93 | 89 | 86 | 88 | 85 | 82 | 83 | 81 | 79 | 76 |
| 2 | 96 | 88 | 80 | 74 | 93 | 85 | 78 | 73 | 81 | 75 | 70 | 76 | 72 | 68 | 72 | 69 | 65 | 63 |
| 3 | 88 | 77 | 68 | 61 | 84 | 75 | 67 | 60 | 71 | 64 | 59 | 67 | 61 | 57 | 64 | 59 | 55 | 53 |
| 4 | 80 | 68 | 59 | 52 | 77 | 66 | 58 | 51 | 63 | 55 | 50 | 60 | 53 | 48 | 57 | 51 | 47 | 45 |
| 5 | 74 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 49 | 43 | 53 | 47 | 42 | 51 | 45 | 41 | 39 |
| 6 | 68 | 54 | 45 | 39 | 66 | 53 | 45 | 38 | 51 | 43 | 38 | 48 | 42 | 37 | 46 | 40 | 36 | 34 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 39 | 33 | 44 | 37 | 33 | 42 | 36 | 32 | 30 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 42 | 35 | 30 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 33 | 27 | 39 | 32 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 25 | 36 | 29 | 24 | 35 | 28 | 24 | 33 | 28 | 23 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4073 | 4073 | 4073 |
| 5° | 4088 | 4052 | 4080 |
| 10° | 4067 | 4034 | 4058 |
| 15° | 4026 | 4001 | 4010 |
| 20° | 3968 | 3947 | 3960 |
| 25° | 3899 | 3886 | 3882 |
| 30° | 3813 | 3813 | 3817 |
| 35° | 3734 | 3753 | 3768 |
| 40° | 3654 | 3690 | 3721 |
| 45° | 3563 | 3653 | 3698 |
| 50° | 3478 | 3615 | 3702 |
| 55° | 3376 | 3599 | 3703 |
| 60° | 3267 | 3586 | 3729 |
| 65° | 3156 | 3599 | 3779 |
| 70° | 3034 | 3607 | 3899 |
| 75° | 2840 | 3733 | 4120 |
| 80° | 2600 | 4069 | 4668 |
| 85° | 2519 | 5632 | 7010 |



TEST NUMBER: P334326

CATALOG NUMBER: S125DS-S610D935-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.7 | 3.1 |
| 10°-20° | 169.4 | 8.7 |
| 20°-30° | 251.9 | 12.9 |
| 30°-40° | 298.3 | 15.3 |
| 40°-50° | 308.4 | 15.8 |
| 50°-60° | 284.1 | 14.5 |
| 60°-70° | 229.7 | 11.8 |
| 70°-80° | 153.7 | 7.9 |
| 80°-90° | 79.4 | 4.1 |
| 90°-100° | 44.7 | 2.3 |
| 100°-110° | 33.0 | 1.7 |
| 110°-120° | 22.1 | 1.1 |
| 120°-130° | 12.5 | 0.6 |
| 130°-140° | 5.5 | 0.3 |
| 140°-150° | 1.1 | 0.1 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 481.0 | 24.6 |
| 0°-40° | 779.3 | 39.9 |
| 0°-60° | 1371.8 | 70.2 |
| 0°-90° | 1834.6 | 93.9 |
| 90°-120° | 99.8 | 5.1 |
| 90°-150° | 118.8 | 6.1 |
| 90°-180° | 119.0 | 6.1 |
| 0°-180° | 1953.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 631 | 631 | 631 | 631 | 631 | |
| 5° | 631 | 629 | 625 | 630 | 629 | 60 |
| 15° | 602 | 603 | 598 | 602 | 600 | 170 |
| 25° | 547 | 549 | 545 | 548 | 545 | 252 |
| 35° | 474 | 478 | 476 | 478 | 478 | 296 |
| 45° | 390 | 397 | 400 | 404 | 405 | 301 |
| 55° | 300 | 310 | 320 | 326 | 329 | 268 |
| 65° | 206 | 221 | 236 | 245 | 247 | 205 |
| 75° | 114 | 130 | 150 | 162 | 165 | 121 |
| 85° | 34 | 54 | 76 | 90 | 95 | 35 |
| 90° | 10 | 30 | 51 | 65 | 69 | 7 |
| 95° | 8 | 24 | 45 | 59 | 63 | 6 |
| 105° | 6 | 16 | 34 | 46 | 51 | 6 |
| 115° | 4 | 8 | 24 | 35 | 39 | 4 |
| 125° | 2 | 2 | 14 | 24 | 27 | 2 |
| 135° | 1 | 1 | 5 | 13 | 16 | 1 |
| 145° | 1 | 0 | 0 | 3 | 6 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P334326

CATALOG NUMBER: S125DS-S610D935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 630.6 | 630.6 | 630.6 | 630.6 | 630.6 |
| 2.5° | 632.4 | 631.2 | 626.9 | 631.2 | 630.6 |
| 5° | 630.6 | 629.3 | 625.0 | 630.0 | 629.3 |
| 7.5° | 626.3 | 625.6 | 621.3 | 625.6 | 625.0 |
| 10° | 620.1 | 620.1 | 615.1 | 619.5 | 618.8 |
| 12.5° | 611.4 | 612.0 | 608.3 | 611.4 | 609.6 |
| 15° | 602.1 | 602.8 | 598.4 | 602.1 | 599.7 |
| 17.5° | 590.4 | 591.6 | 587.3 | 590.4 | 588.5 |
| 20° | 577.4 | 578.7 | 574.3 | 576.2 | 576.2 |
| 22.5° | 562.6 | 565.1 | 560.1 | 562.6 | 560.7 |
| 25° | 547.1 | 549.0 | 545.3 | 547.7 | 544.7 |
| 27.5° | 530.4 | 532.9 | 528.6 | 530.4 | 529.2 |
| 30° | 511.3 | 515.0 | 511.3 | 512.5 | 511.9 |
| 32.5° | 494.0 | 497.0 | 494.6 | 495.8 | 495.2 |
| 35° | 473.6 | 477.9 | 476.0 | 477.9 | 477.9 |
| 37.5° | 453.8 | 457.5 | 456.9 | 459.3 | 458.7 |
| 40° | 433.4 | 438.3 | 437.7 | 440.2 | 441.4 |
| 42.5° | 411.1 | 417.9 | 419.8 | 422.9 | 422.9 |
| 45° | 390.1 | 396.9 | 400.0 | 404.3 | 404.9 |
| 47.5° | 368.5 | 374.6 | 379.6 | 385.8 | 387.0 |
| 50° | 346.2 | 353.0 | 359.8 | 366.6 | 368.5 |
| 52.5° | 322.7 | 331.4 | 340.0 | 347.4 | 348.7 |
| 55° | 299.8 | 309.7 | 319.6 | 326.4 | 328.9 |
| 57.5° | 276.3 | 288.1 | 299.2 | 306.6 | 308.5 |
| 60° | 252.9 | 265.2 | 277.6 | 286.9 | 288.7 |
| 62.5° | 230.0 | 242.3 | 255.9 | 266.5 | 268.9 |
| 65° | 206.5 | 220.7 | 235.5 | 244.8 | 247.3 |
| 67.5° | 184.8 | 198.4 | 213.3 | 224.4 | 227.5 |
| 70° | 160.7 | 175.0 | 191.0 | 202.8 | 206.5 |
| 72.5° | 137.2 | 152.1 | 170.0 | 183.0 | 185.5 |
| 75° | 113.8 | 129.8 | 149.6 | 162.0 | 165.1 |
| 77.5° | 90.9 | 109.4 | 128.0 | 141.6 | 144.0 |
| 80° | 69.9 | 88.4 | 109.4 | 123.0 | 125.5 |
| 82.5° | 50.7 | 70.5 | 92.1 | 105.1 | 110.0 |
| 85° | 34.0 | 54.4 | 76.0 | 89.6 | 94.6 |
| 87.5° | 21.6 | 41.4 | 62.4 | 76.7 | 81.0 |
| 90° | 9.9 | 29.7 | 50.7 | 64.9 | 69.2 |
| 92.5° | 8.7 | 26.6 | 48.2 | 61.8 | 66.1 |
| 95° | 8.0 | 24.1 | 45.1 | 58.7 | 63.1 |
| 97.5° | 7.4 | 22.3 | 42.7 | 55.6 | 60.0 |
| 100° | 6.8 | 19.8 | 39.6 | 52.5 | 56.3 |
| 102.5° | 6.2 | 17.9 | 37.1 | 49.5 | 53.2 |
| 105° | 5.6 | 15.5 | 34.0 | 46.4 | 50.7 |
| 107.5° | 4.9 | 13.6 | 31.5 | 43.9 | 47.6 |
| 110° | 4.3 | 11.7 | 29.1 | 40.8 | 45.1 |



TEST NUMBER: P334326

CATALOG NUMBER: S125DS-S610D935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 4.3 | 9.9 | 26.6 | 37.7 | 42.0 |
| 115° | 3.7 | 8.0 | 24.1 | 35.2 | 38.9 |
| 117.5° | 3.1 | 6.2 | 21.6 | 32.1 | 36.5 |
| 120° | 3.1 | 4.9 | 19.2 | 29.7 | 33.4 |
| 122.5° | 2.5 | 3.1 | 16.7 | 26.6 | 30.3 |
| 125° | 2.5 | 1.9 | 14.2 | 24.1 | 27.2 |
| 127.5° | 1.9 | 1.2 | 11.7 | 21.0 | 24.7 |
| 130° | 1.9 | 1.2 | 9.9 | 18.5 | 21.6 |
| 132.5° | 1.2 | 1.2 | 7.4 | 16.1 | 18.5 |
| 135° | 1.2 | 0.6 | 4.9 | 13.0 | 16.1 |
| 137.5° | 1.2 | 0.6 | 3.1 | 10.5 | 13.0 |
| 140° | 0.6 | 0.6 | 1.2 | 8.0 | 10.5 |
| 142.5° | 0.6 | 0.0 | 0.0 | 5.6 | 8.0 |
| 145° | 0.6 | 0.0 | 0.0 | 3.1 | 5.6 |
| 147.5° | 0.0 | 0.0 | 0.0 | 1.2 | 2.5 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)