

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: P334361

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
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-F
Description: DEFINE 5 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 610 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

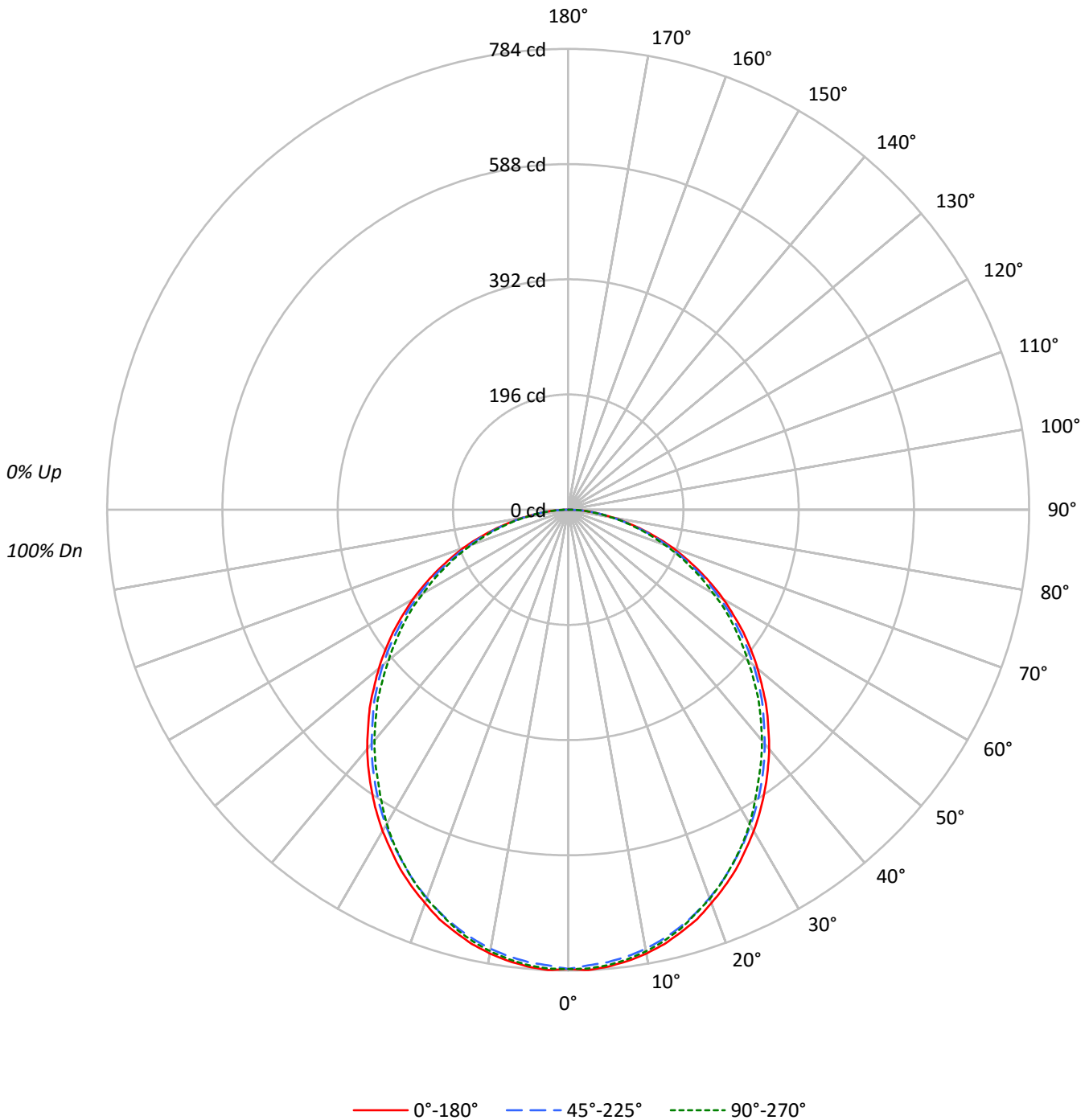
Lumens per Lamp: N/A
Luminaire Lumens: 2033.9 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

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





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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 94 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 72 | 70 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | 73 | 67 | 63 | 70 | 66 | 62 | 59 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 46 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 40 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5047 | 5047 | 5047 |
| 5° | 5058 | 5010 | 5042 |
| 10° | 5027 | 4975 | 5003 |
| 15° | 4973 | 4915 | 4936 |
| 20° | 4895 | 4831 | 4840 |
| 25° | 4811 | 4732 | 4727 |
| 30° | 4707 | 4624 | 4601 |
| 35° | 4596 | 4509 | 4445 |
| 40° | 4483 | 4383 | 4321 |
| 45° | 4359 | 4269 | 4184 |
| 50° | 4224 | 4130 | 4007 |
| 55° | 4093 | 3975 | 3863 |
| 60° | 3937 | 3817 | 3681 |
| 65° | 3750 | 3628 | 3506 |
| 70° | 3573 | 3408 | 3291 |
| 75° | 3254 | 3147 | 3039 |
| 80° | 2897 | 2853 | 2782 |
| 85° | 2519 | 2564 | 2431 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.7 | 3.6 |
| 10°-20° | 208.3 | 10.2 |
| 20°-30° | 307.5 | 15.1 |
| 30°-40° | 358.8 | 17.6 |
| 40°-50° | 360.3 | 17.7 |
| 50°-60° | 316.3 | 15.6 |
| 60°-70° | 235.6 | 11.6 |
| 70°-80° | 134.6 | 6.6 |
| 80°-90° | 38.8 | 1.9 |
| 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° | 589.5 | 29.0 |
| 0°-40° | 948.3 | 46.6 |
| 0°-60° | 1624.9 | 79.9 |
| 0°-90° | 2033.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2033.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 781 | 781 | 781 | 781 | 781 | |
| 5° | 780 | 779 | 773 | 778 | 778 | 74 |
| 15° | 744 | 742 | 735 | 738 | 738 | 210 |
| 25° | 675 | 672 | 664 | 665 | 663 | 311 |
| 35° | 583 | 580 | 572 | 569 | 564 | 365 |
| 45° | 477 | 475 | 467 | 460 | 458 | 368 |
| 55° | 364 | 362 | 353 | 347 | 343 | 325 |
| 65° | 245 | 244 | 237 | 232 | 229 | 243 |
| 75° | 130 | 129 | 126 | 124 | 122 | 139 |
| 85° | 34 | 35 | 35 | 34 | 33 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 781.4 | 781.4 | 781.4 | 781.4 | 781.4 |
| 2.5° | 783.9 | 782.0 | 775.9 | 782.0 | 781.4 |
| 5° | 780.2 | 779.0 | 772.8 | 778.3 | 777.7 |
| 7.5° | 774.6 | 773.4 | 766.6 | 772.2 | 771.5 |
| 10° | 766.6 | 765.4 | 758.6 | 763.5 | 762.9 |
| 12.5° | 756.7 | 754.2 | 748.0 | 751.8 | 751.8 |
| 15° | 743.7 | 741.9 | 735.1 | 738.2 | 738.2 |
| 17.5° | 730.1 | 727.0 | 720.2 | 723.9 | 720.8 |
| 20° | 712.2 | 711.0 | 702.9 | 707.2 | 704.2 |
| 22.5° | 694.3 | 691.8 | 684.4 | 686.8 | 685.0 |
| 25° | 675.1 | 672.0 | 664.0 | 665.2 | 663.4 |
| 27.5° | 652.8 | 651.0 | 642.9 | 643.6 | 641.7 |
| 30° | 631.2 | 629.3 | 620.1 | 618.8 | 617.0 |
| 32.5° | 607.7 | 604.6 | 596.6 | 594.1 | 590.4 |
| 35° | 583.0 | 580.5 | 571.9 | 568.8 | 563.8 |
| 37.5° | 557.6 | 554.5 | 546.5 | 542.2 | 539.1 |
| 40° | 531.7 | 528.6 | 519.9 | 514.4 | 512.5 |
| 42.5° | 503.8 | 501.4 | 492.7 | 487.8 | 484.7 |
| 45° | 477.3 | 474.8 | 467.4 | 460.0 | 458.1 |
| 47.5° | 448.2 | 448.8 | 439.6 | 432.1 | 427.8 |
| 50° | 420.4 | 418.5 | 411.1 | 403.1 | 398.8 |
| 52.5° | 392.0 | 390.7 | 382.7 | 375.9 | 370.9 |
| 55° | 363.5 | 361.7 | 353.0 | 347.4 | 343.1 |
| 57.5° | 333.2 | 332.6 | 325.2 | 317.8 | 315.9 |
| 60° | 304.8 | 302.3 | 295.5 | 289.3 | 285.0 |
| 62.5° | 275.1 | 273.3 | 267.7 | 260.9 | 257.8 |
| 65° | 245.4 | 244.2 | 237.4 | 231.8 | 229.4 |
| 67.5° | 216.4 | 213.9 | 209.0 | 204.0 | 202.8 |
| 70° | 189.2 | 186.1 | 180.5 | 176.8 | 174.3 |
| 72.5° | 159.5 | 157.6 | 154.6 | 150.2 | 147.8 |
| 75° | 130.4 | 129.2 | 126.1 | 124.3 | 121.8 |
| 77.5° | 103.2 | 102.6 | 100.8 | 99.5 | 97.7 |
| 80° | 77.9 | 77.9 | 76.7 | 76.0 | 74.8 |
| 82.5° | 55.6 | 54.4 | 54.4 | 53.2 | 53.2 |
| 85° | 34.0 | 34.6 | 34.6 | 34.0 | 32.8 |
| 87.5° | 16.7 | 16.7 | 16.1 | 16.1 | 14.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)