

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: P335026

Luminaire Tested: **S125IP-S590U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IP-S590U935-4F0-1E-UDD-1
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 590 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

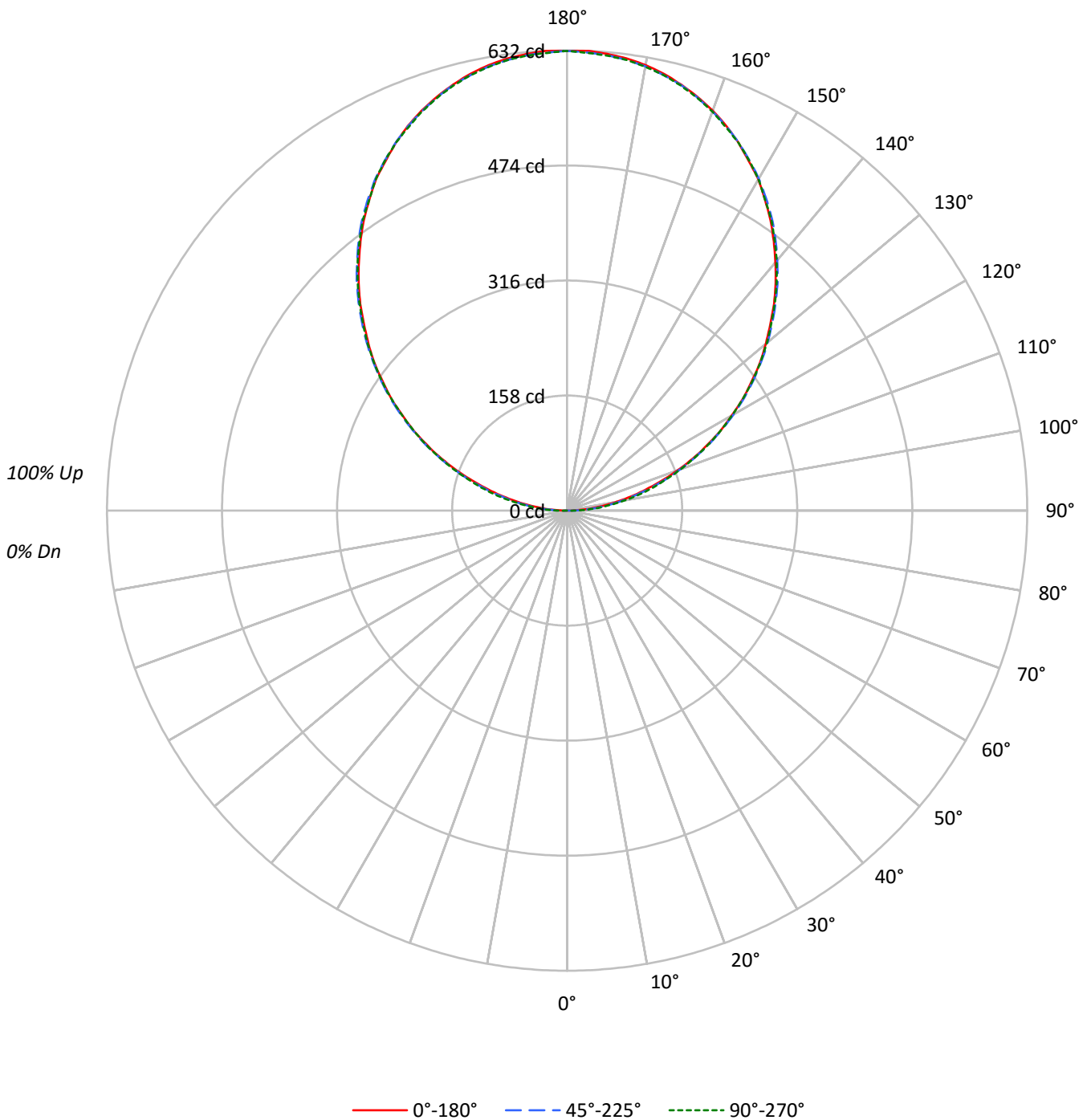
Lumens per Lamp: N/A
Luminaire Lumens: 1762.5 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|----|-----|-----|
| 0° | 0 | 0 | 0 |
| 5° | 0 | 0 | 0 |
| 10° | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 |
| 20° | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 |
| 30° | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 1.0 | 0.1 |
| 90°-100° | 42.0 | 2.4 |
| 100°-110° | 124.7 | 7.1 |
| 110°-120° | 211.5 | 12.0 |
| 120°-130° | 278.4 | 15.8 |
| 130°-140° | 311.9 | 17.7 |
| 140°-150° | 305.8 | 17.3 |
| 150°-160° | 256.8 | 14.6 |
| 160°-170° | 170.7 | 9.7 |
| 170°-180° | 59.7 | 3.4 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 1.0 | 0.1 |
| 90°-120° | 378.1 | 21.5 |
| 90°-150° | 1274.2 | 72.3 |
| 90°-180° | 1762.0 | 100.0 |
| 0°-180° | 1762.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 0 | 0 | 0 | 0 | 0 | |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 4 | 8 | 10 | 12 | 2 |
| 95° | 32 | 33 | 38 | 41 | 42 | 33 |
| 105° | 112 | 114 | 117 | 120 | 122 | 119 |
| 115° | 212 | 214 | 215 | 214 | 214 | 209 |
| 125° | 309 | 312 | 312 | 311 | 311 | 277 |
| 135° | 402 | 405 | 405 | 405 | 403 | 310 |
| 145° | 487 | 489 | 490 | 490 | 489 | 304 |
| 155° | 557 | 557 | 558 | 560 | 557 | 257 |
| 165° | 606 | 605 | 605 | 607 | 604 | 171 |
| 175° | 630 | 628 | 628 | 631 | 627 | 60 |
| 180° | 631 | 631 | 631 | 631 | 631 | |



TEST NUMBER: P335026

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.5 | 4.4 | 7.9 | 10.3 | 11.8 |
| 92.5° | 14.7 | 17.2 | 21.6 | 25.1 | 26.0 |
| 95° | 31.9 | 32.9 | 37.8 | 41.3 | 42.2 |
| 97.5° | 49.1 | 49.6 | 56.5 | 59.4 | 59.9 |
| 100° | 68.8 | 68.8 | 75.2 | 79.6 | 80.6 |
| 102.5° | 89.9 | 92.3 | 94.8 | 99.7 | 101.2 |
| 105° | 112.0 | 114.4 | 117.4 | 120.3 | 121.8 |
| 107.5° | 136.1 | 138.5 | 141.0 | 142.4 | 142.4 |
| 110° | 161.1 | 163.6 | 165.0 | 166.5 | 166.0 |



TEST NUMBER: P335026

CATALOG NUMBER: S125IP-S590U935-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 186.6 | 187.6 | 189.6 | 190.1 | 189.1 |
| 115° | 211.7 | 213.7 | 214.6 | 214.2 | 213.7 |
| 117.5° | 237.2 | 237.7 | 238.7 | 239.2 | 237.2 |
| 120° | 260.8 | 263.3 | 263.8 | 263.8 | 261.8 |
| 122.5° | 286.4 | 286.8 | 288.3 | 287.8 | 286.4 |
| 125° | 309.0 | 311.9 | 312.4 | 311.4 | 310.9 |
| 127.5° | 334.0 | 335.5 | 336.0 | 335.5 | 334.5 |
| 130° | 356.1 | 358.6 | 359.5 | 359.1 | 358.1 |
| 132.5° | 378.2 | 382.6 | 382.1 | 381.6 | 380.2 |
| 135° | 401.8 | 404.7 | 405.2 | 405.2 | 403.3 |
| 137.5° | 423.9 | 426.8 | 427.8 | 428.3 | 425.9 |
| 140° | 445.0 | 447.5 | 448.9 | 449.9 | 447.5 |
| 142.5° | 466.1 | 468.1 | 470.1 | 470.5 | 468.1 |
| 145° | 486.8 | 488.7 | 490.2 | 490.2 | 488.7 |
| 147.5° | 505.9 | 507.4 | 508.4 | 509.8 | 505.9 |
| 150° | 525.1 | 524.6 | 526.5 | 526.5 | 525.6 |
| 152.5° | 540.8 | 541.8 | 542.3 | 543.7 | 541.8 |
| 155° | 557.0 | 557.0 | 557.5 | 559.5 | 557.0 |
| 157.5° | 571.7 | 570.7 | 571.2 | 573.2 | 569.8 |
| 160° | 584.5 | 583.0 | 583.5 | 585.5 | 583.0 |
| 162.5° | 595.8 | 594.8 | 594.8 | 597.3 | 594.3 |
| 165° | 605.6 | 604.6 | 605.1 | 607.1 | 604.1 |
| 167.5° | 614.5 | 612.5 | 612.5 | 615.4 | 612.5 |
| 170° | 621.3 | 619.4 | 619.4 | 622.3 | 618.9 |
| 172.5° | 626.3 | 624.3 | 624.3 | 627.2 | 624.3 |
| 175° | 629.7 | 627.7 | 627.7 | 630.7 | 627.2 |
| 177.5° | 632.1 | 630.2 | 629.7 | 632.6 | 629.2 |
| 180° | 631.2 | 631.2 | 631.2 | 631.2 | 631.2 |

(END OF REPORT)