

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: P335086

Luminaire Tested: **S125IP-S590U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IP-S590U927-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 590 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1873.8 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

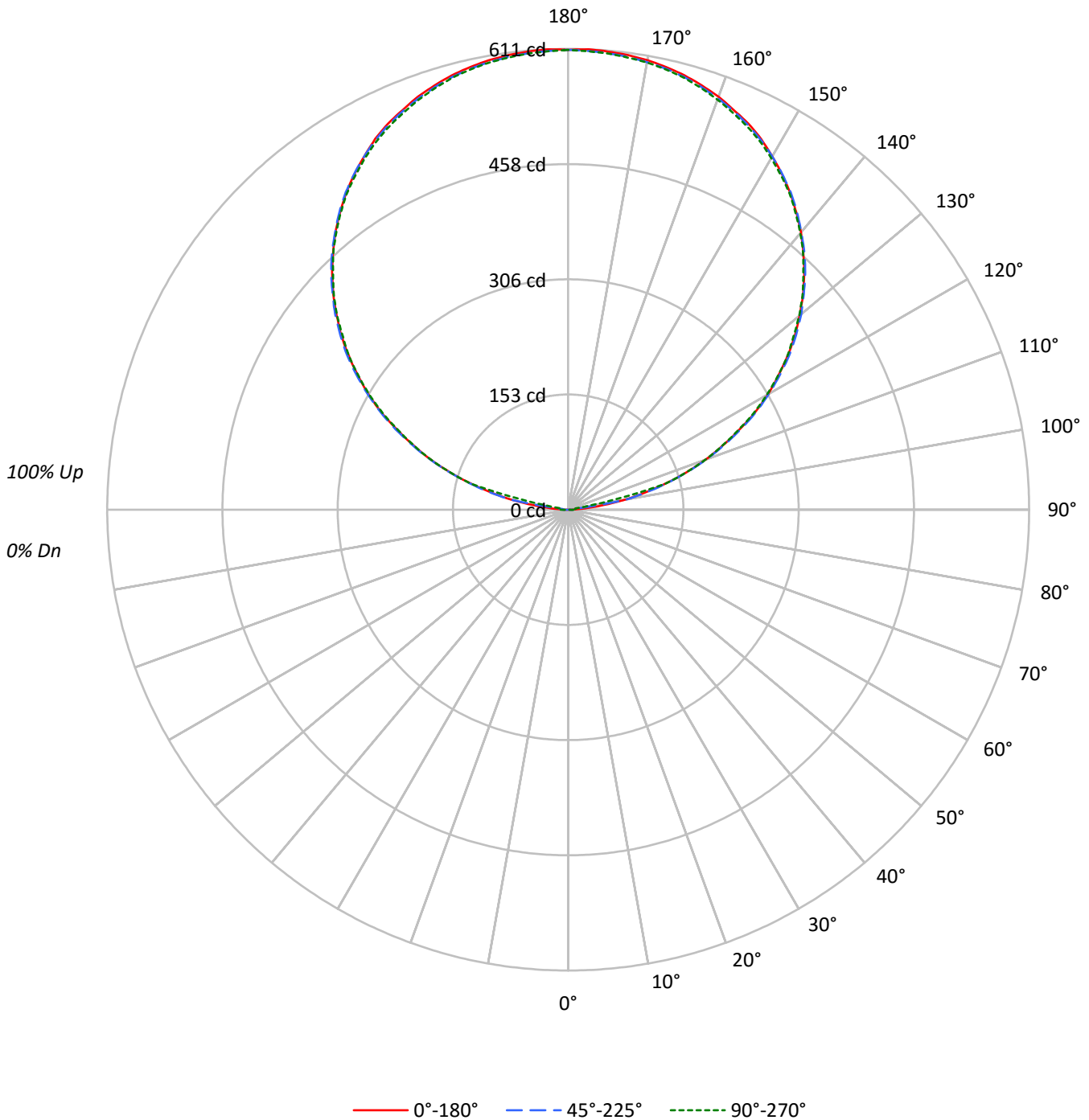
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P335086

CATALOG NUMBER: S125IP-S590U927-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P335086

CATALOG NUMBER: S125IP-S590U927-4F0-1E-UDD

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 |



TEST NUMBER: P335086

CATALOG NUMBER: S125IP-S590U927-4F0-1E-UDD

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° | 0.9 | 0.0 |
| 90°-100° | 20.7 | 1.1 |
| 100°-110° | 137.6 | 7.3 |
| 110°-120° | 247.8 | 13.2 |
| 120°-130° | 318.1 | 17.0 |
| 130°-140° | 342.1 | 18.3 |
| 140°-150° | 321.1 | 17.1 |
| 150°-160° | 259.7 | 13.9 |
| 160°-170° | 168.0 | 9.0 |
| 170°-180° | 57.9 | 3.1 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 0.9 | 0.0 |
| 90°-120° | 406.1 | 21.7 |
| 90°-150° | 1387.3 | 74.0 |
| 90°-180° | 1873.0 | 100.0 |
| 0°-180° | 1873.8 | 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 | 7 | 10 | 11 | 1 |
| 95° | 26 | 24 | 7 | 10 | 10 | 32 |
| 105° | 133 | 135 | 135 | 135 | 134 | 141 |
| 115° | 250 | 252 | 252 | 250 | 248 | 247 |
| 125° | 355 | 358 | 358 | 356 | 355 | 317 |
| 135° | 442 | 445 | 444 | 443 | 441 | 341 |
| 145° | 513 | 514 | 514 | 514 | 512 | 321 |
| 155° | 565 | 562 | 563 | 564 | 561 | 260 |
| 165° | 596 | 593 | 594 | 597 | 593 | 168 |
| 175° | 610 | 607 | 607 | 611 | 607 | 58 |
| 180° | 610 | 610 | 610 | 610 | 610 | |



TEST NUMBER: P335086

CATALOG NUMBER: S125IP-S590U927-4F0-1E-UDD

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 | 4.1 | 7.2 | 9.5 | 10.8 |
| 92.5° | 8.6 | 4.5 | 7.2 | 9.5 | 9.9 |
| 95° | 25.8 | 24.4 | 7.2 | 9.5 | 9.5 |
| 97.5° | 48.4 | 51.1 | 8.1 | 9.0 | 9.5 |
| 100° | 75.5 | 76.8 | 78.6 | 11.3 | 9.5 |
| 102.5° | 103.0 | 104.9 | 105.8 | 106.7 | 68.7 |
| 105° | 132.9 | 134.7 | 134.7 | 134.7 | 134.2 |
| 107.5° | 163.6 | 163.6 | 164.5 | 165.0 | 163.2 |
| 110° | 193.4 | 193.4 | 194.3 | 193.0 | 193.4 |



TEST NUMBER: P335086

CATALOG NUMBER: S125IP-S590U927-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 221.5 | 222.8 | 223.3 | 221.5 | 220.6 |
| 115° | 249.5 | 251.7 | 252.2 | 250.4 | 247.7 |
| 117.5° | 278.9 | 278.9 | 280.7 | 278.0 | 277.1 |
| 120° | 306.0 | 305.5 | 306.9 | 306.0 | 303.7 |
| 122.5° | 329.9 | 332.2 | 332.7 | 331.7 | 329.0 |
| 125° | 354.8 | 358.0 | 358.0 | 356.2 | 354.8 |
| 127.5° | 378.8 | 381.0 | 380.6 | 379.7 | 376.0 |
| 130° | 400.4 | 402.7 | 403.2 | 401.8 | 399.5 |
| 132.5° | 422.1 | 424.9 | 423.5 | 423.5 | 421.2 |
| 135° | 442.5 | 445.2 | 444.3 | 443.4 | 440.7 |
| 137.5° | 461.5 | 464.2 | 463.3 | 463.3 | 461.0 |
| 140° | 480.0 | 480.9 | 480.4 | 481.3 | 478.6 |
| 142.5° | 496.7 | 497.2 | 498.1 | 498.1 | 495.4 |
| 145° | 513.0 | 513.9 | 513.9 | 514.3 | 511.6 |
| 147.5° | 527.4 | 527.4 | 527.9 | 528.4 | 525.2 |
| 150° | 541.0 | 540.1 | 541.0 | 541.9 | 538.3 |
| 152.5° | 554.1 | 551.9 | 552.8 | 553.7 | 550.5 |
| 155° | 565.0 | 562.3 | 563.2 | 564.5 | 560.9 |
| 157.5° | 573.6 | 572.2 | 572.2 | 573.6 | 569.9 |
| 160° | 582.6 | 579.9 | 580.3 | 582.1 | 578.5 |
| 162.5° | 589.8 | 587.1 | 587.6 | 590.3 | 586.2 |
| 165° | 596.1 | 593.4 | 593.9 | 596.6 | 593.0 |
| 167.5° | 601.1 | 598.4 | 598.9 | 602.0 | 598.0 |
| 170° | 605.2 | 602.0 | 602.5 | 606.1 | 602.0 |
| 172.5° | 607.9 | 604.7 | 605.6 | 608.8 | 604.7 |
| 175° | 609.7 | 607.0 | 607.4 | 611.1 | 607.0 |
| 177.5° | 611.1 | 608.4 | 608.8 | 612.0 | 608.4 |
| 180° | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 |

(END OF REPORT)