

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: P335072

Luminaire Tested: **S125IP-S810U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335072
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-S810U830-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 810 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3056.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

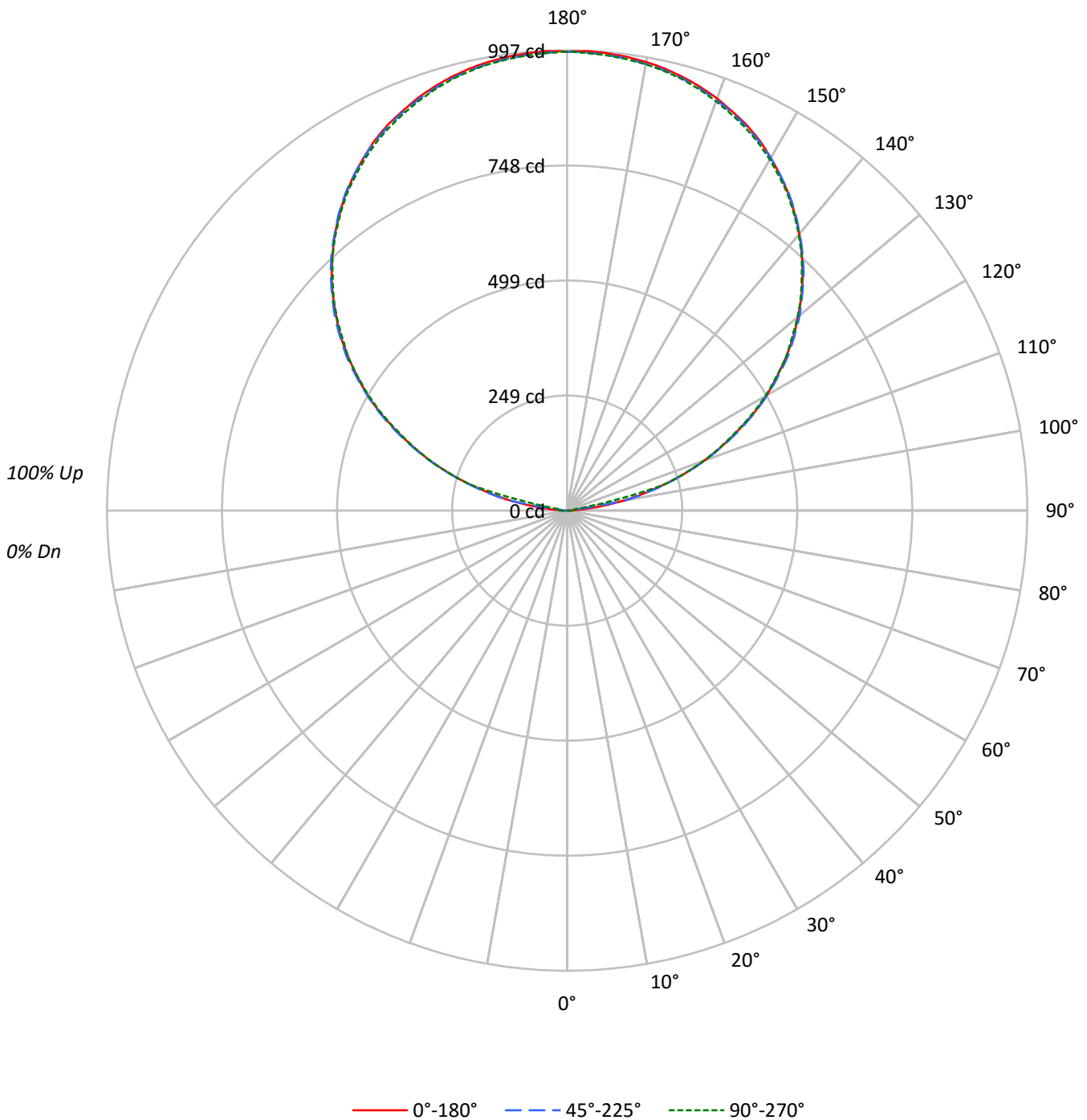
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P335072

CATALOG NUMBER: S125IP-S810U830-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P335072

CATALOG NUMBER: S125IP-S810U830-4F0-1E-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: P335072

CATALOG NUMBER: S125IP-S810U830-4F0-1E-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° | 1.5 | 0.0 |
| 90°-100° | 33.8 | 1.1 |
| 100°-110° | 224.4 | 7.3 |
| 110°-120° | 404.1 | 13.2 |
| 120°-130° | 518.7 | 17.0 |
| 130°-140° | 557.9 | 18.3 |
| 140°-150° | 523.6 | 17.1 |
| 150°-160° | 423.5 | 13.9 |
| 160°-170° | 273.9 | 9.0 |
| 170°-180° | 94.5 | 3.1 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 1.5 | 0.0 |
| 90°-120° | 662.3 | 21.7 |
| 90°-150° | 2262.5 | 74.0 |
| 90°-180° | 3054.0 | 99.9 |
| 0°-180° | 3056.0 | 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° | 1 | 7 | 12 | 16 | 18 | 2 |
| 95° | 42 | 40 | 12 | 16 | 16 | 51 |
| 105° | 217 | 220 | 220 | 220 | 219 | 230 |
| 115° | 407 | 411 | 411 | 408 | 404 | 403 |
| 125° | 579 | 584 | 584 | 581 | 579 | 517 |
| 135° | 722 | 726 | 725 | 723 | 719 | 556 |
| 145° | 837 | 838 | 838 | 839 | 834 | 523 |
| 155° | 921 | 917 | 918 | 921 | 915 | 425 |
| 165° | 972 | 968 | 969 | 973 | 967 | 275 |
| 175° | 994 | 990 | 991 | 997 | 990 | 95 |
| 180° | 994 | 994 | 994 | 994 | 994 | |



TEST NUMBER: P335072

CATALOG NUMBER: S125IP-S810U830-4F0-1E-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° | 0.7 | 6.6 | 11.8 | 15.5 | 17.7 |
| 92.5° | 14.0 | 7.4 | 11.8 | 15.5 | 16.2 |
| 95° | 42.0 | 39.8 | 11.8 | 15.5 | 15.5 |
| 97.5° | 78.9 | 83.3 | 13.3 | 14.7 | 15.5 |
| 100° | 123.1 | 125.3 | 128.3 | 18.4 | 15.5 |
| 102.5° | 168.1 | 171.0 | 172.5 | 174.0 | 112.0 |
| 105° | 216.7 | 219.7 | 219.7 | 219.7 | 218.9 |
| 107.5° | 266.8 | 266.8 | 268.3 | 269.0 | 266.1 |
| 110° | 315.5 | 315.5 | 317.0 | 314.7 | 315.5 |



TEST NUMBER: P335072

CATALOG NUMBER: S125IP-S810U830-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 361.2 | 363.4 | 364.1 | 361.2 | 359.7 |
| 115° | 406.9 | 410.6 | 411.3 | 408.4 | 403.9 |
| 117.5° | 454.8 | 454.8 | 457.7 | 453.3 | 451.8 |
| 120° | 499.0 | 498.3 | 500.5 | 499.0 | 495.3 |
| 122.5° | 538.1 | 541.8 | 542.5 | 541.0 | 536.6 |
| 125° | 578.6 | 583.8 | 583.8 | 580.8 | 578.6 |
| 127.5° | 617.7 | 621.4 | 620.6 | 619.2 | 613.3 |
| 130° | 653.1 | 656.8 | 657.5 | 655.3 | 651.6 |
| 132.5° | 688.5 | 692.9 | 690.7 | 690.7 | 687.0 |
| 135° | 721.6 | 726.1 | 724.6 | 723.1 | 718.7 |
| 137.5° | 752.6 | 757.0 | 755.5 | 755.5 | 751.9 |
| 140° | 782.8 | 784.3 | 783.5 | 785.0 | 780.6 |
| 142.5° | 810.1 | 810.8 | 812.3 | 812.3 | 807.9 |
| 145° | 836.6 | 838.1 | 838.1 | 838.8 | 834.4 |
| 147.5° | 860.2 | 860.2 | 860.9 | 861.7 | 856.5 |
| 150° | 882.3 | 880.8 | 882.3 | 883.8 | 877.9 |
| 152.5° | 903.7 | 900.0 | 901.5 | 903.0 | 897.8 |
| 155° | 921.4 | 917.0 | 918.4 | 920.7 | 914.8 |
| 157.5° | 935.4 | 933.2 | 933.2 | 935.4 | 929.5 |
| 160° | 950.1 | 945.7 | 946.5 | 949.4 | 943.5 |
| 162.5° | 961.9 | 957.5 | 958.2 | 962.7 | 956.0 |
| 165° | 972.2 | 967.8 | 968.6 | 973.0 | 967.1 |
| 167.5° | 980.4 | 975.9 | 976.7 | 981.8 | 975.2 |
| 170° | 987.0 | 981.8 | 982.6 | 988.5 | 981.8 |
| 172.5° | 991.4 | 986.3 | 987.7 | 992.9 | 986.3 |
| 175° | 994.4 | 989.9 | 990.7 | 996.6 | 989.9 |
| 177.5° | 996.6 | 992.2 | 992.9 | 998.0 | 992.2 |
| 180° | 994.4 | 994.4 | 994.4 | 994.4 | 994.4 |

(END OF REPORT)