

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: P335111

Luminaire Tested: **S125IW-S770U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335111
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: S125IW-S770U835-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 770 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

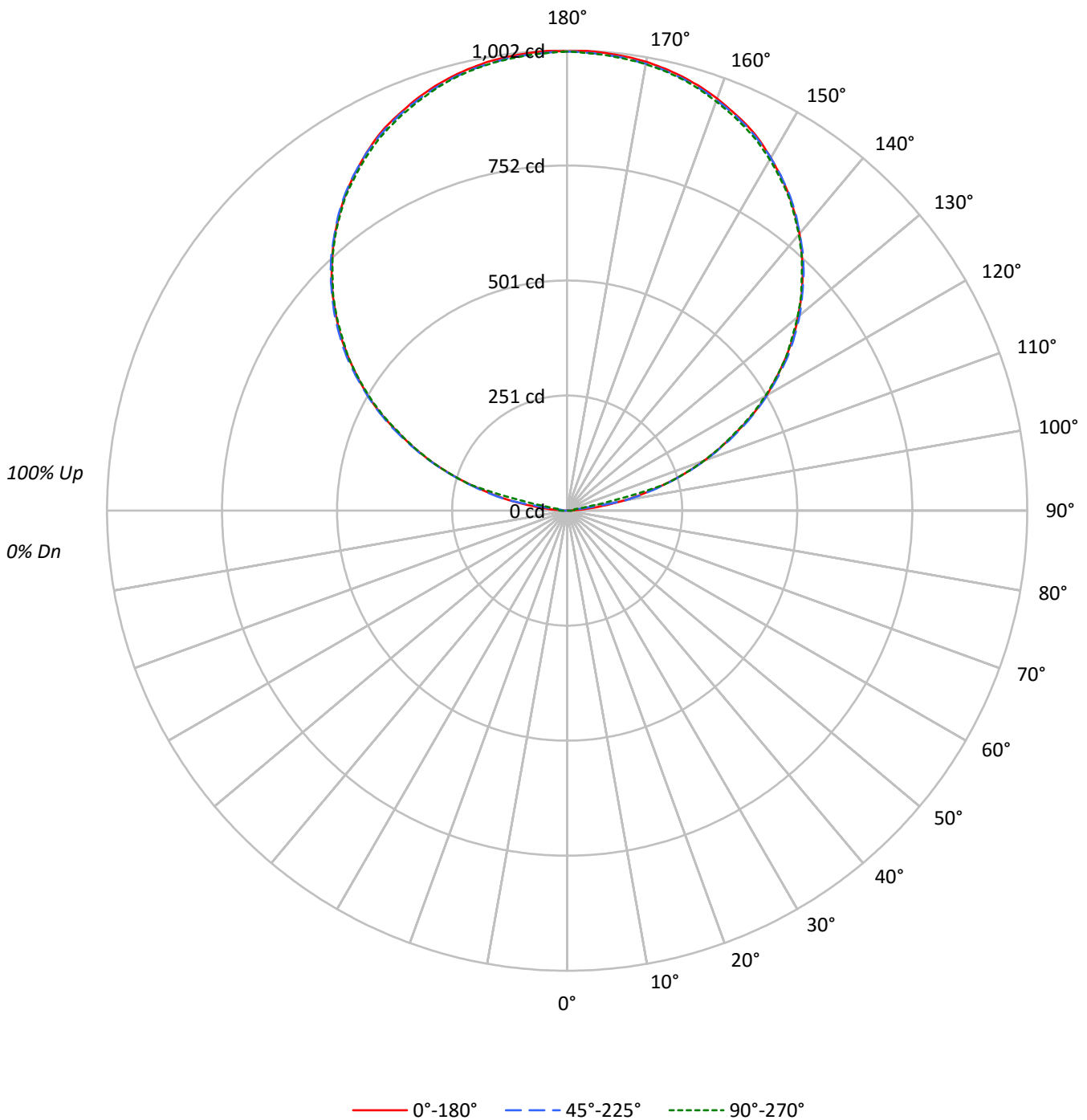
Lumens per Lamp: N/A
Luminaire Lumens: 3071.9 lumens
Efficiency: N/A
Efficacy: 219.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 14
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° | 1.5 | 0.0 |
| 90°-100° | 33.9 | 1.1 |
| 100°-110° | 225.6 | 7.3 |
| 110°-120° | 406.2 | 13.2 |
| 120°-130° | 521.4 | 17.0 |
| 130°-140° | 560.8 | 18.3 |
| 140°-150° | 526.4 | 17.1 |
| 150°-160° | 425.8 | 13.9 |
| 160°-170° | 275.4 | 9.0 |
| 170°-180° | 95.0 | 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° | 665.8 | 21.7 |
| 90°-150° | 2274.4 | 74.0 |
| 90°-180° | 3070.0 | 99.9 |
| 0°-180° | 3071.9 | 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 | 52 |
| 105° | 218 | 221 | 221 | 221 | 220 | 231 |
| 115° | 409 | 413 | 414 | 410 | 406 | 405 |
| 125° | 582 | 587 | 587 | 584 | 582 | 520 |
| 135° | 725 | 730 | 728 | 727 | 722 | 559 |
| 145° | 841 | 842 | 842 | 843 | 839 | 526 |
| 155° | 926 | 922 | 923 | 926 | 920 | 427 |
| 165° | 977 | 973 | 974 | 978 | 972 | 276 |
| 175° | 1000 | 995 | 996 | 1002 | 995 | 95 |
| 180° | 1000 | 1000 | 1000 | 1000 | 1000 | |



TEST NUMBER: P335111

CATALOG NUMBER: S125IW-S770U835-4F0-1E-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 | 6.7 | 11.9 | 15.6 | 17.8 |
| 92.5° | 14.1 | 7.4 | 11.9 | 15.6 | 16.3 |
| 95° | 42.2 | 40.0 | 11.9 | 15.6 | 15.6 |
| 97.5° | 79.3 | 83.7 | 13.3 | 14.8 | 15.6 |
| 100° | 123.7 | 126.0 | 128.9 | 18.5 | 15.6 |
| 102.5° | 168.9 | 171.9 | 173.4 | 174.9 | 112.6 |
| 105° | 217.8 | 220.8 | 220.8 | 220.8 | 220.1 |
| 107.5° | 268.2 | 268.2 | 269.7 | 270.5 | 267.5 |
| 110° | 317.1 | 317.1 | 318.6 | 316.4 | 317.1 |



TEST NUMBER: P335111

CATALOG NUMBER: S125IW-S770U835-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|-------|-------|--------|-------|
| 112.5° | 363.1 | 365.3 | 366.0 | 363.1 | 361.6 |
| 115° | 409.0 | 412.7 | 413.5 | 410.5 | 406.0 |
| 117.5° | 457.2 | 457.2 | 460.1 | 455.7 | 454.2 |
| 120° | 501.6 | 500.9 | 503.1 | 501.6 | 497.9 |
| 122.5° | 540.9 | 544.6 | 545.3 | 543.9 | 539.4 |
| 125° | 581.7 | 586.8 | 586.8 | 583.9 | 581.7 |
| 127.5° | 620.9 | 624.6 | 623.9 | 622.4 | 616.5 |
| 130° | 656.5 | 660.2 | 660.9 | 658.7 | 655.0 |
| 132.5° | 692.1 | 696.5 | 694.3 | 694.3 | 690.6 |
| 135° | 725.4 | 729.8 | 728.4 | 726.9 | 722.4 |
| 137.5° | 756.5 | 761.0 | 759.5 | 759.5 | 755.8 |
| 140° | 786.9 | 788.4 | 787.6 | 789.1 | 784.7 |
| 142.5° | 814.3 | 815.1 | 816.5 | 816.5 | 812.1 |
| 145° | 841.0 | 842.5 | 842.5 | 843.2 | 838.8 |
| 147.5° | 864.7 | 864.7 | 865.4 | 866.2 | 861.0 |
| 150° | 886.9 | 885.5 | 886.9 | 888.4 | 882.5 |
| 152.5° | 908.4 | 904.7 | 906.2 | 907.7 | 902.5 |
| 155° | 926.2 | 921.8 | 923.2 | 925.5 | 919.5 |
| 157.5° | 940.3 | 938.1 | 938.1 | 940.3 | 934.4 |
| 160° | 955.1 | 950.7 | 951.4 | 954.4 | 948.4 |
| 162.5° | 967.0 | 962.5 | 963.3 | 967.7 | 961.0 |
| 165° | 977.3 | 972.9 | 973.6 | 978.1 | 972.1 |
| 167.5° | 985.5 | 981.0 | 981.8 | 987.0 | 980.3 |
| 170° | 992.2 | 987.0 | 987.7 | 993.6 | 987.0 |
| 172.5° | 996.6 | 991.4 | 992.9 | 998.1 | 991.4 |
| 175° | 999.6 | 995.1 | 995.9 | 1001.8 | 995.1 |
| 177.5° | 1001.8 | 997.3 | 998.1 | 1003.3 | 997.3 |
| 180° | 999.6 | 999.6 | 999.6 | 999.6 | 999.6 |

(END OF REPORT)