

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: METALUX

Report Number: P567980

Luminaire Tested: **8SNX-74SL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-74SL-LC-UNV-L840-CD
Description: 8FT 7400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

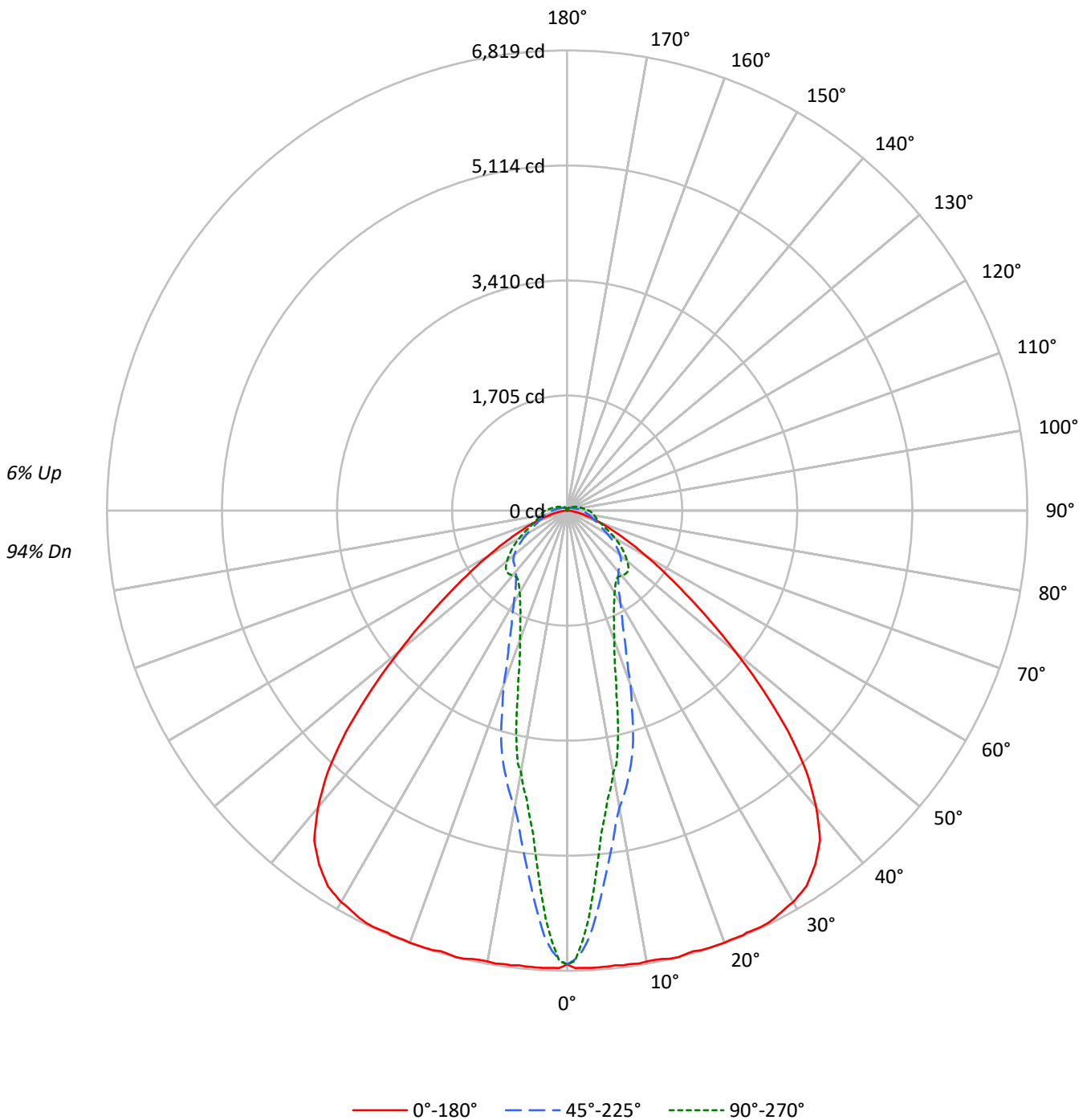
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8289.9 lumens
Efficiency: N/A
Efficacy: 172.7 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
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

TEST NUMBER: P567980
CATALOG NUMBER: 8SNX-74SL-LC-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567980

CATALOG NUMBER: 8SNX-74SL-LC-UNV-L840-CD

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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 94 | | | | |
| 1 | 108 | 103 | 99 | 96 | 105 | 101 | 97 | 94 | 95 | 92 | 90 | 90 | 88 | 86 | 86 | 84 | 82 | 80 | | | | |
| 2 | 99 | 92 | 86 | 80 | 96 | 89 | 84 | 79 | 85 | 80 | 76 | 81 | 77 | 74 | 77 | 74 | 71 | 69 | | | | |
| 3 | 92 | 82 | 75 | 69 | 89 | 80 | 73 | 68 | 76 | 71 | 66 | 73 | 68 | 64 | 70 | 66 | 62 | 60 | | | | |
| 4 | 85 | 74 | 66 | 60 | 82 | 72 | 65 | 59 | 69 | 63 | 58 | 66 | 61 | 56 | 63 | 59 | 55 | 53 | | | | |
| 5 | 79 | 67 | 59 | 53 | 76 | 66 | 58 | 52 | 63 | 56 | 51 | 60 | 55 | 50 | 58 | 53 | 49 | 47 | | | | |
| 6 | 73 | 61 | 53 | 47 | 71 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 45 | 53 | 48 | 44 | 42 | | | | |
| 7 | 69 | 56 | 48 | 43 | 67 | 55 | 48 | 42 | 53 | 46 | 42 | 51 | 45 | 41 | 50 | 44 | 40 | 38 | | | | |
| 8 | 64 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 49 | 43 | 38 | 48 | 42 | 37 | 46 | 41 | 37 | 35 | | | | |
| 9 | 61 | 48 | 41 | 36 | 59 | 47 | 40 | 35 | 46 | 39 | 35 | 44 | 39 | 34 | 43 | 38 | 34 | 32 | | | | |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 33 | 43 | 37 | 32 | 42 | 36 | 32 | 40 | 35 | 31 | 30 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 36195 | 36195 | 36195 |
| 5° | 36588 | 29766 | 26610 |
| 10° | 36943 | 22496 | 19259 |
| 15° | 37687 | 18409 | 13336 |
| 20° | 38735 | 13335 | 9418 |
| 25° | 40027 | 9563 | 7409 |
| 30° | 41141 | 7649 | 6310 |
| 35° | 41487 | 6477 | 5652 |
| 40° | 39661 | 5894 | 5665 |
| 45° | 34527 | 5701 | 5820 |
| 50° | 26588 | 5428 | 5431 |
| 55° | 19356 | 4753 | 4819 |
| 60° | 14124 | 3972 | 4075 |
| 65° | 10358 | 3364 | 3340 |
| 70° | 7714 | 2976 | 2880 |
| 75° | 5574 | 2763 | 2684 |
| 80° | 3767 | 2594 | 2644 |
| 85° | 1905 | 2481 | 2648 |



TEST NUMBER: P567980

CATALOG NUMBER: 8SNX-74SL-LC-UNV-L840-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 528.9 | 6.4 |
| 10°-20° | 1148.5 | 13.9 |
| 20°-30° | 1314.6 | 15.9 |
| 30°-40° | 1317.0 | 15.9 |
| 40°-50° | 1246.7 | 15.0 |
| 50°-60° | 956.1 | 11.5 |
| 60°-70° | 616.3 | 7.4 |
| 70°-80° | 393.0 | 4.7 |
| 80°-90° | 261.0 | 3.1 |
| 90°-100° | 175.4 | 2.1 |
| 100°-110° | 115.6 | 1.4 |
| 110°-120° | 80.4 | 1.0 |
| 120°-130° | 56.1 | 0.7 |
| 130°-140° | 38.9 | 0.5 |
| 140°-150° | 23.8 | 0.3 |
| 150°-160° | 12.1 | 0.1 |
| 160°-170° | 4.6 | 0.1 |
| 170°-180° | 0.9 | 0.0 |
| 0°-30° | 2992.0 | 36.1 |
| 0°-40° | 4309.0 | 52.0 |
| 0°-60° | 6511.8 | 78.6 |
| 0°-90° | 7782.0 | 93.9 |
| 90°-120° | 371.4 | 4.5 |
| 90°-150° | 490.3 | 5.9 |
| 90°-180° | 508.0 | 6.1 |
| 0°-180° | 8289.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 6725 | 6725 | 6725 | 6725 | 6725 | |
| 5° | 6785 | 6411 | 5744 | 5357 | 5213 | 648 |
| 15° | 6802 | 4898 | 3734 | 3067 | 2821 | 1929 |
| 25° | 6806 | 3467 | 1976 | 1716 | 1636 | 3138 |
| 35° | 6407 | 1929 | 1321 | 1279 | 1262 | 3975 |
| 45° | 4631 | 1219 | 1113 | 1232 | 1274 | 3521 |
| 55° | 2124 | 871 | 858 | 964 | 1003 | 1953 |
| 65° | 850 | 548 | 540 | 616 | 637 | 874 |
| 75° | 289 | 297 | 374 | 429 | 450 | 318 |
| 85° | 38 | 136 | 263 | 344 | 370 | 53 |
| 90° | 0 | 94 | 221 | 306 | 319 | 2 |
| 95° | 0 | 68 | 183 | 251 | 263 | 0 |
| 105° | 0 | 51 | 119 | 170 | 183 | 3 |
| 115° | 4 | 42 | 89 | 123 | 132 | 4 |
| 125° | 4 | 38 | 76 | 89 | 94 | 4 |
| 135° | 4 | 30 | 60 | 72 | 76 | 3 |
| 145° | 4 | 21 | 42 | 55 | 60 | 3 |
| 155° | 4 | 13 | 26 | 38 | 42 | 2 |
| 165° | 8 | 8 | 17 | 21 | 26 | 2 |
| 175° | 8 | 8 | 8 | 8 | 4 | 1 |
| 180° | 8 | 8 | 8 | 8 | 8 | |



TEST NUMBER: P567980

CATALOG NUMBER: 8SNX-74SL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 6725.3 | 6725.3 | 6725.3 | 6725.3 | 6725.3 |
| 1° | 6780.5 | 6742.2 | 6653.0 | 6678.5 | 6674.3 |
| 2° | 6780.5 | 6699.8 | 6525.6 | 6474.6 | 6398.1 |
| 3° | 6784.7 | 6627.5 | 6330.1 | 6164.5 | 6058.2 |
| 4° | 6784.7 | 6521.3 | 6041.3 | 5765.1 | 5629.2 |
| 5° | 6784.7 | 6410.9 | 5743.9 | 5357.3 | 5212.8 |
| 6° | 6776.2 | 6279.2 | 5442.2 | 5034.4 | 4817.7 |
| 7° | 6789.0 | 6134.7 | 5170.3 | 4732.7 | 4562.8 |
| 8° | 6784.7 | 5964.8 | 4919.7 | 4503.3 | 4316.4 |
| 9° | 6797.5 | 5799.1 | 4647.8 | 4286.7 | 4146.5 |
| 10° | 6784.7 | 5646.2 | 4469.3 | 4082.7 | 3938.3 |
| 11° | 6784.7 | 5497.5 | 4341.9 | 3951.0 | 3827.8 |
| 12° | 6793.2 | 5327.5 | 4201.7 | 3764.1 | 3594.2 |
| 13° | 6814.5 | 5153.3 | 4040.2 | 3560.2 | 3360.5 |
| 14° | 6818.7 | 5021.6 | 3891.6 | 3301.0 | 3092.9 |
| 15° | 6801.7 | 4898.4 | 3734.4 | 3067.4 | 2821.0 |
| 16° | 6793.2 | 4771.0 | 3547.4 | 2846.4 | 2625.5 |
| 17° | 6810.2 | 4622.3 | 3335.0 | 2621.3 | 2417.4 |
| 18° | 6814.5 | 4486.3 | 3109.8 | 2451.3 | 2272.9 |
| 19° | 6814.5 | 4380.1 | 2927.2 | 2294.1 | 2141.2 |
| 20° | 6814.5 | 4278.2 | 2740.2 | 2175.2 | 2043.5 |
| 21° | 6806.0 | 4150.7 | 2527.8 | 2052.0 | 1941.5 |
| 22.5° | 6810.2 | 3912.8 | 2285.7 | 1907.5 | 1818.3 |
| 23° | 6797.5 | 3853.3 | 2226.2 | 1869.3 | 1775.8 |
| 24° | 6801.7 | 3683.4 | 2098.7 | 1792.8 | 1703.6 |
| 25° | 6806.0 | 3466.7 | 1975.5 | 1716.4 | 1635.6 |
| 26° | 6797.5 | 3292.5 | 1873.6 | 1644.1 | 1588.9 |
| 27° | 6776.2 | 3152.3 | 1801.3 | 1584.7 | 1533.7 |
| 28° | 6746.5 | 2965.4 | 1724.9 | 1533.7 | 1486.9 |
| 29° | 6716.8 | 2753.0 | 1648.4 | 1478.5 | 1444.5 |
| 30° | 6699.8 | 2583.0 | 1576.2 | 1436.0 | 1406.2 |
| 32.5° | 6597.8 | 2247.4 | 1427.5 | 1351.0 | 1325.5 |
| 35° | 6406.6 | 1928.8 | 1321.3 | 1278.8 | 1261.8 |
| 37.5° | 6156.0 | 1682.4 | 1240.5 | 1232.0 | 1236.3 |
| 40° | 5743.9 | 1486.9 | 1181.1 | 1219.3 | 1257.5 |
| 42.5° | 5251.0 | 1334.0 | 1138.6 | 1232.0 | 1274.5 |
| 45° | 4630.8 | 1219.3 | 1113.1 | 1232.0 | 1274.5 |
| 47.5° | 3942.5 | 1125.8 | 1083.3 | 1189.6 | 1232.0 |
| 50° | 3254.3 | 1040.9 | 1023.9 | 1125.8 | 1164.1 |
| 52.5° | 2646.8 | 960.1 | 947.4 | 1045.1 | 1083.3 |
| 55° | 2124.2 | 870.9 | 858.2 | 964.4 | 1002.6 |
| 57.5° | 1703.6 | 786.0 | 773.2 | 870.9 | 909.2 |
| 60° | 1359.5 | 701.0 | 679.7 | 777.5 | 815.7 |
| 62.5° | 1083.3 | 620.3 | 607.5 | 692.5 | 726.5 |
| 65° | 849.7 | 548.0 | 539.5 | 616.0 | 637.3 |



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CATALOG NUMBER: 8SNX-74SL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 67.5° | 671.3 | 480.1 | 484.3 | 548.0 | 573.5 |
| 70° | 518.3 | 416.3 | 441.8 | 501.3 | 518.3 |
| 72.5° | 390.9 | 352.6 | 407.8 | 458.8 | 480.1 |
| 75° | 288.9 | 297.4 | 373.9 | 429.1 | 450.3 |
| 77.5° | 199.7 | 246.4 | 344.1 | 403.6 | 424.8 |
| 80° | 135.9 | 199.7 | 314.4 | 382.4 | 407.8 |
| 82.5° | 80.7 | 165.7 | 288.9 | 361.1 | 390.9 |
| 85° | 38.2 | 135.9 | 263.4 | 344.1 | 369.6 |
| 87.5° | 12.7 | 110.5 | 237.9 | 327.1 | 348.4 |
| 90° | 0.0 | 93.5 | 220.9 | 305.9 | 318.6 |
| 92.5° | 0.0 | 80.7 | 199.7 | 280.4 | 288.9 |
| 95° | 0.0 | 68.0 | 182.7 | 250.7 | 263.4 |
| 97.5° | 0.0 | 63.7 | 169.9 | 225.2 | 242.2 |
| 100° | 0.0 | 59.5 | 152.9 | 203.9 | 220.9 |
| 102.5° | 0.0 | 51.0 | 135.9 | 182.7 | 199.7 |
| 105° | 0.0 | 51.0 | 119.0 | 169.9 | 182.7 |
| 107.5° | 4.2 | 46.7 | 110.5 | 152.9 | 169.9 |
| 110° | 4.2 | 46.7 | 97.7 | 144.4 | 157.2 |
| 112.5° | 4.2 | 46.7 | 93.5 | 131.7 | 148.7 |
| 115° | 4.2 | 42.5 | 89.2 | 123.2 | 131.7 |
| 117.5° | 4.2 | 42.5 | 85.0 | 110.5 | 119.0 |
| 120° | 4.2 | 38.2 | 80.7 | 102.0 | 106.2 |
| 122.5° | 4.2 | 38.2 | 76.5 | 93.5 | 97.7 |
| 125° | 4.2 | 38.2 | 76.5 | 89.2 | 93.5 |
| 127.5° | 4.2 | 34.0 | 72.2 | 85.0 | 85.0 |
| 130° | 4.2 | 34.0 | 68.0 | 80.7 | 80.7 |
| 132.5° | 4.2 | 29.7 | 63.7 | 76.5 | 80.7 |
| 135° | 4.2 | 29.7 | 59.5 | 72.2 | 76.5 |
| 137.5° | 4.2 | 25.5 | 55.2 | 68.0 | 72.2 |
| 140° | 4.2 | 25.5 | 51.0 | 63.7 | 68.0 |
| 142.5° | 4.2 | 21.2 | 46.7 | 59.5 | 63.7 |
| 145° | 4.2 | 21.2 | 42.5 | 55.2 | 59.5 |
| 147.5° | 4.2 | 21.2 | 38.2 | 51.0 | 55.2 |
| 150° | 4.2 | 17.0 | 34.0 | 46.7 | 51.0 |
| 152.5° | 4.2 | 17.0 | 29.7 | 42.5 | 46.7 |
| 155° | 4.2 | 12.7 | 25.5 | 38.2 | 42.5 |
| 157.5° | 4.2 | 12.7 | 25.5 | 34.0 | 38.2 |
| 160° | 8.5 | 12.7 | 21.2 | 29.7 | 34.0 |
| 162.5° | 4.2 | 8.5 | 21.2 | 25.5 | 29.7 |
| 165° | 8.5 | 8.5 | 17.0 | 21.2 | 25.5 |
| 167.5° | 8.5 | 8.5 | 12.7 | 17.0 | 21.2 |
| 170° | 8.5 | 8.5 | 12.7 | 12.7 | 17.0 |
| 172.5° | 8.5 | 8.5 | 8.5 | 12.7 | 8.5 |
| 175° | 8.5 | 8.5 | 8.5 | 8.5 | 4.2 |
| 177.5° | 8.5 | 8.5 | 8.5 | 8.5 | 4.2 |



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CATALOG NUMBER: 8SNX-74SL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|-----|-------|-----|-------|-----|
| 180° | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |

(END OF REPORT)