

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: P567542

Luminaire Tested: **8SNX-174HL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-174HL-FDL-UNV-L930-CD  
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

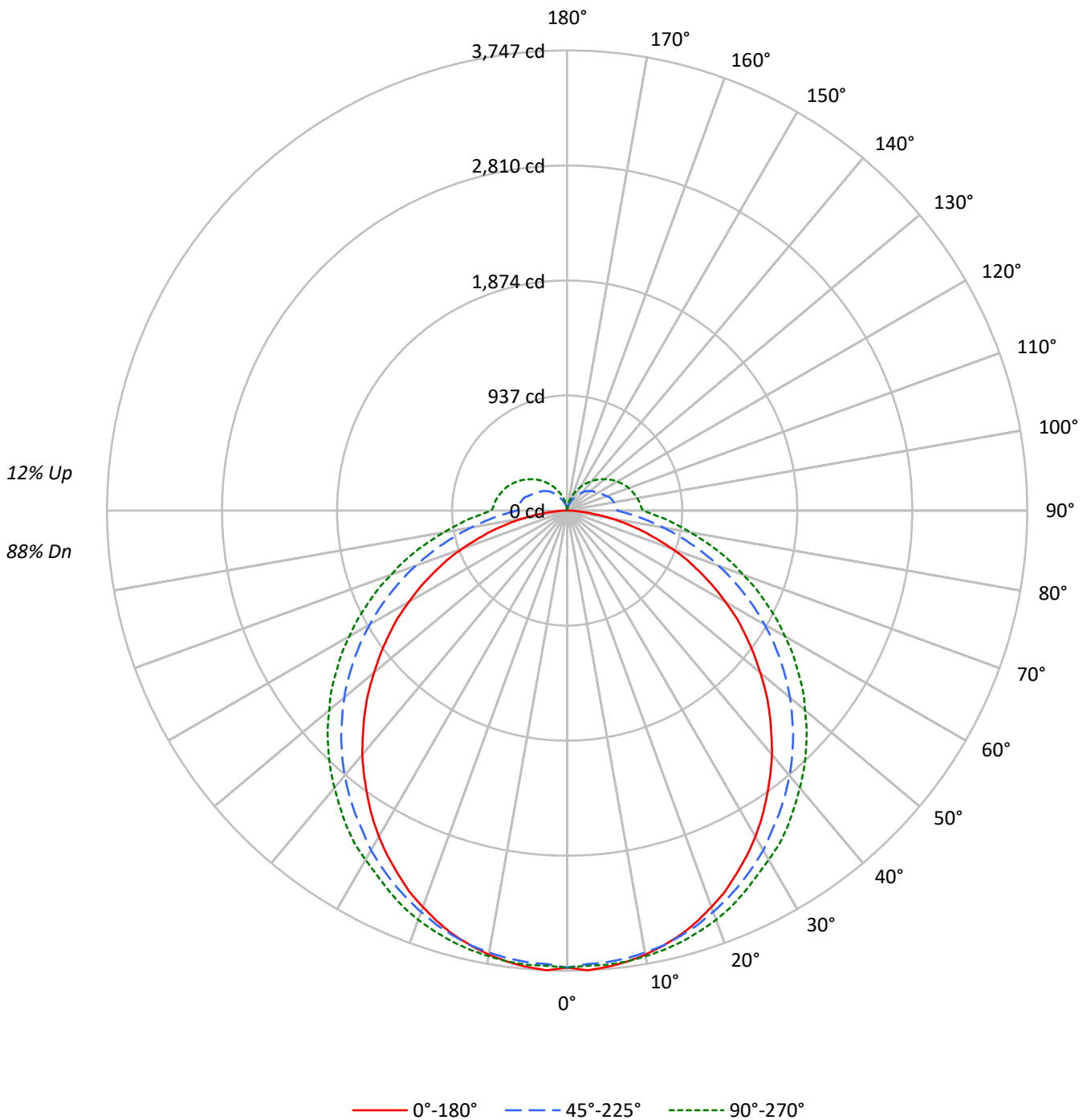
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13398.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Semi-Direct  
  
Input Watts (W): 124.4  
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

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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   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 91 | 91 | 91 | 88 |
| 1   | 105 | 99  | 95  | 90  | 101 | 96  | 92  | 88  | 89  | 86  | 83  | 84 | 81 | 78 | 78 | 76 | 74 | 71 |
| 2   | 95  | 86  | 79  | 72  | 91  | 83  | 76  | 71  | 77  | 72  | 67  | 72 | 68 | 64 | 68 | 64 | 61 | 58 |
| 3   | 86  | 75  | 66  | 60  | 82  | 72  | 65  | 58  | 68  | 61  | 56  | 63 | 58 | 53 | 59 | 55 | 51 | 48 |
| 4   | 78  | 66  | 57  | 50  | 75  | 64  | 56  | 49  | 60  | 53  | 47  | 56 | 50 | 45 | 53 | 48 | 43 | 41 |
| 5   | 72  | 59  | 50  | 43  | 69  | 57  | 48  | 42  | 54  | 46  | 41  | 50 | 44 | 39 | 47 | 42 | 38 | 35 |
| 6   | 66  | 53  | 44  | 37  | 64  | 51  | 43  | 37  | 48  | 41  | 35  | 45 | 39 | 34 | 43 | 37 | 33 | 31 |
| 7   | 61  | 48  | 39  | 33  | 59  | 46  | 38  | 32  | 44  | 36  | 31  | 41 | 35 | 30 | 39 | 33 | 29 | 27 |
| 8   | 57  | 43  | 35  | 29  | 55  | 42  | 34  | 29  | 40  | 33  | 28  | 38 | 31 | 27 | 36 | 30 | 26 | 24 |
| 9   | 53  | 40  | 32  | 26  | 51  | 39  | 31  | 26  | 37  | 30  | 25  | 35 | 29 | 24 | 33 | 27 | 23 | 21 |
| 10  | 50  | 37  | 29  | 23  | 48  | 36  | 28  | 23  | 34  | 27  | 22  | 32 | 26 | 22 | 31 | 25 | 21 | 19 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 20028 | 20028 | 20028 |
| 5°  | 20145 | 19734 | 19768 |
| 10° | 20044 | 19555 | 19562 |
| 15° | 19889 | 19338 | 19372 |
| 20° | 19635 | 19077 | 19154 |
| 25° | 19327 | 18812 | 18862 |
| 30° | 18992 | 18546 | 18613 |
| 35° | 18564 | 18226 | 18440 |
| 40° | 18152 | 17963 | 18172 |
| 45° | 17651 | 17657 | 17947 |
| 50° | 17068 | 17334 | 17662 |
| 55° | 16518 | 16932 | 17407 |
| 60° | 15884 | 16505 | 17095 |
| 65° | 15112 | 16016 | 16789 |
| 70° | 14132 | 15482 | 16444 |
| 75° | 12730 | 14901 | 16325 |
| 80° | 10774 | 14564 | 16194 |
| 85° | 8025  | 14944 | 17069 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 353.3   | 2.6       |
| 10°-20°   | 1016.3  | 7.6       |
| 20°-30°   | 1546.0  | 11.5      |
| 30°-40°   | 1879.8  | 14.0      |
| 40°-50°   | 1988.8  | 14.8      |
| 50°-60°   | 1864.2  | 13.9      |
| 60°-70°   | 1533.7  | 11.4      |
| 70°-80°   | 1061.2  | 7.9       |
| 80°-90°   | 590.1   | 4.4       |
| 90°-100°  | 388.7   | 2.9       |
| 100°-110° | 348.6   | 2.6       |
| 110°-120° | 288.5   | 2.2       |
| 120°-130° | 223.1   | 1.7       |
| 130°-140° | 157.9   | 1.2       |
| 140°-150° | 95.2    | 0.7       |
| 150°-160° | 45.8    | 0.3       |
| 160°-170° | 15.0    | 0.1       |
| 170°-180° | 1.8     | 0.0       |
| 0°-30°    | 2915.6  | 21.8      |
| 0°-40°    | 4795.4  | 35.8      |
| 0°-60°    | 8648.5  | 64.6      |
| 0°-90°    | 11833.4 | 88.3      |
| 90°-120°  | 1025.9  | 7.7       |
| 90°-150°  | 1502.1  | 11.2      |
| 90°-180°  | 1565.0  | 11.7      |
| 0°-180°   | 13398.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3721 | 3721  | 3721 | 3721  | 3721 |      |
| 5°   | 3731 | 3724  | 3692 | 3721  | 3712 | 354  |
| 15°  | 3575 | 3586  | 3584 | 3632  | 3632 | 1008 |
| 25°  | 3263 | 3308  | 3348 | 3421  | 3423 | 1504 |
| 35°  | 2836 | 2912  | 3010 | 3107  | 3134 | 1775 |
| 45°  | 2331 | 2453  | 2602 | 2719  | 2751 | 1797 |
| 55°  | 1774 | 1932  | 2118 | 2251  | 2297 | 1588 |
| 65°  | 1200 | 1372  | 1585 | 1741  | 1790 | 1190 |
| 75°  | 624  | 805   | 1042 | 1207  | 1273 | 662  |
| 85°  | 138  | 342   | 578  | 739   | 803  | 158  |
| 90°  | 2    | 193   | 408  | 562   | 617  | 9    |
| 95°  | 2    | 184   | 397  | 544   | 596  | 2    |
| 105° | 2    | 158   | 372  | 512   | 558  | 2    |
| 115° | 5    | 138   | 314  | 454   | 505  | 4    |
| 125° | 5    | 117   | 268  | 388   | 436  | 4    |
| 135° | 5    | 92    | 225  | 319   | 358  | 4    |
| 145° | 5    | 66    | 156  | 241   | 271  | 3    |
| 155° | 7    | 46    | 96   | 154   | 179  | 3    |
| 165° | 7    | 30    | 53   | 71    | 92   | 2    |
| 175° | 7    | 12    | 16   | 16    | 9    | 1    |
| 180° | 5    | 5     | 5    | 5     | 5    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3721.4 | 3721.4 | 3721.4 | 3721.4 | 3721.4 |
| 2.5°   | 3746.7 | 3735.2 | 3696.2 | 3721.4 | 3710.0 |
| 5°     | 3730.6 | 3723.7 | 3691.6 | 3721.4 | 3712.3 |
| 7.5°   | 3705.4 | 3703.1 | 3677.9 | 3712.3 | 3703.1 |
| 10°    | 3671.0 | 3675.6 | 3654.9 | 3691.6 | 3684.7 |
| 12.5°  | 3627.4 | 3634.3 | 3625.1 | 3666.4 | 3661.8 |
| 15°    | 3574.6 | 3586.1 | 3583.8 | 3632.0 | 3632.0 |
| 17.5°  | 3510.4 | 3526.4 | 3535.6 | 3590.7 | 3590.7 |
| 20°    | 3434.7 | 3459.9 | 3478.2 | 3537.9 | 3547.1 |
| 22.5°  | 3358.9 | 3388.8 | 3416.3 | 3478.2 | 3492.0 |
| 25°    | 3262.6 | 3308.5 | 3347.5 | 3420.9 | 3423.2 |
| 27.5°  | 3168.5 | 3219.0 | 3271.8 | 3342.9 | 3349.8 |
| 30°    | 3065.3 | 3129.5 | 3193.7 | 3262.6 | 3283.2 |
| 32.5°  | 2955.1 | 3026.3 | 3097.4 | 3189.2 | 3216.7 |
| 35°    | 2835.8 | 2911.5 | 3010.2 | 3106.6 | 3134.1 |
| 37.5°  | 2716.5 | 2801.4 | 2916.1 | 3014.8 | 3040.0 |
| 40°    | 2594.9 | 2689.0 | 2817.5 | 2918.4 | 2948.2 |
| 42.5°  | 2459.6 | 2574.3 | 2711.9 | 2819.8 | 2854.2 |
| 45°    | 2331.1 | 2452.7 | 2601.8 | 2718.8 | 2750.9 |
| 47.5°  | 2195.7 | 2324.2 | 2484.8 | 2608.7 | 2645.4 |
| 50°    | 2051.2 | 2198.0 | 2370.1 | 2494.0 | 2528.4 |
| 52.5°  | 1915.8 | 2064.9 | 2246.2 | 2374.7 | 2422.8 |
| 55°    | 1773.5 | 1931.8 | 2117.7 | 2250.8 | 2296.7 |
| 57.5°  | 1640.5 | 1791.9 | 1991.5 | 2124.6 | 2181.9 |
| 60°    | 1489.0 | 1656.5 | 1856.1 | 2000.7 | 2046.6 |
| 62.5°  | 1346.8 | 1516.6 | 1723.1 | 1872.2 | 1925.0 |
| 65°    | 1199.9 | 1372.0 | 1585.4 | 1741.4 | 1789.6 |
| 67.5°  | 1062.3 | 1232.1 | 1450.0 | 1603.8 | 1665.7 |
| 70°    | 910.9  | 1089.8 | 1312.4 | 1470.7 | 1523.5 |
| 72.5°  | 761.7  | 947.6  | 1174.7 | 1344.5 | 1404.1 |
| 75°    | 624.1  | 805.3  | 1041.6 | 1206.8 | 1273.4 |
| 77.5°  | 491.0  | 674.5  | 913.2  | 1082.9 | 1140.3 |
| 80°    | 357.9  | 550.6  | 793.8  | 961.3  | 1016.4 |
| 82.5°  | 236.3  | 438.2  | 679.1  | 846.6  | 906.3  |
| 85°    | 137.7  | 341.9  | 578.2  | 738.8  | 803.0  |
| 87.5°  | 59.7   | 259.3  | 484.1  | 642.4  | 695.2  |
| 90°    | 2.3    | 192.7  | 408.4  | 562.1  | 617.2  |
| 92.5°  | 2.3    | 188.1  | 399.2  | 550.6  | 603.4  |
| 95°    | 2.3    | 183.5  | 396.9  | 543.8  | 596.5  |
| 97.5°  | 2.3    | 181.3  | 392.3  | 539.2  | 589.6  |
| 100°   | 2.3    | 174.4  | 385.5  | 530.0  | 580.5  |
| 102.5° | 2.3    | 165.2  | 378.6  | 520.8  | 569.0  |
| 105°   | 2.3    | 158.3  | 371.7  | 511.6  | 557.5  |
| 107.5° | 2.3    | 151.4  | 360.2  | 500.2  | 546.1  |
| 110°   | 2.3    | 144.5  | 341.9  | 488.7  | 534.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.3 | 142.3 | 328.1 | 472.6 | 520.8 |
| 115°   | 4.6 | 137.7 | 314.3 | 454.3 | 504.8 |
| 117.5° | 4.6 | 135.4 | 302.9 | 435.9 | 488.7 |
| 120°   | 4.6 | 128.5 | 291.4 | 419.9 | 470.3 |
| 122.5° | 4.6 | 121.6 | 279.9 | 403.8 | 454.3 |
| 125°   | 4.6 | 117.0 | 268.4 | 387.7 | 435.9 |
| 127.5° | 4.6 | 110.1 | 259.3 | 371.7 | 415.3 |
| 130°   | 4.6 | 105.5 | 247.8 | 353.3 | 396.9 |
| 132.5° | 4.6 | 98.7  | 236.3 | 335.0 | 376.3 |
| 135°   | 4.6 | 91.8  | 224.8 | 318.9 | 357.9 |
| 137.5° | 4.6 | 82.6  | 211.1 | 300.6 | 337.3 |
| 140°   | 4.6 | 75.7  | 192.7 | 282.2 | 316.6 |
| 142.5° | 4.6 | 71.1  | 174.4 | 261.6 | 293.7 |
| 145°   | 4.6 | 66.5  | 156.0 | 240.9 | 270.7 |
| 147.5° | 4.6 | 61.9  | 140.0 | 220.3 | 247.8 |
| 150°   | 4.6 | 55.1  | 123.9 | 201.9 | 224.8 |
| 152.5° | 6.9 | 50.5  | 110.1 | 179.0 | 201.9 |
| 155°   | 6.9 | 45.9  | 96.4  | 153.7 | 179.0 |
| 157.5° | 6.9 | 41.3  | 82.6  | 128.5 | 156.0 |
| 160°   | 6.9 | 36.7  | 71.1  | 105.5 | 133.1 |
| 162.5° | 6.9 | 34.4  | 61.9  | 87.2  | 112.4 |
| 165°   | 6.9 | 29.8  | 52.8  | 71.1  | 91.8  |
| 167.5° | 6.9 | 22.9  | 43.6  | 55.1  | 75.7  |
| 170°   | 6.9 | 18.4  | 34.4  | 39.0  | 57.4  |
| 172.5° | 6.9 | 13.8  | 25.2  | 27.5  | 29.8  |
| 175°   | 6.9 | 11.5  | 16.1  | 16.1  | 9.2   |
| 177.5° | 6.9 | 9.2   | 9.2   | 9.2   | 4.6   |
| 180°   | 4.6 | 4.6   | 4.6   | 4.6   | 4.6   |

(END OF REPORT)