

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: P#

Luminaire Tested: **8ILED-LD5-18-W-FL-UNV-L850-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34181)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-18-W-FL-UNV-L850-CD2-U  
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

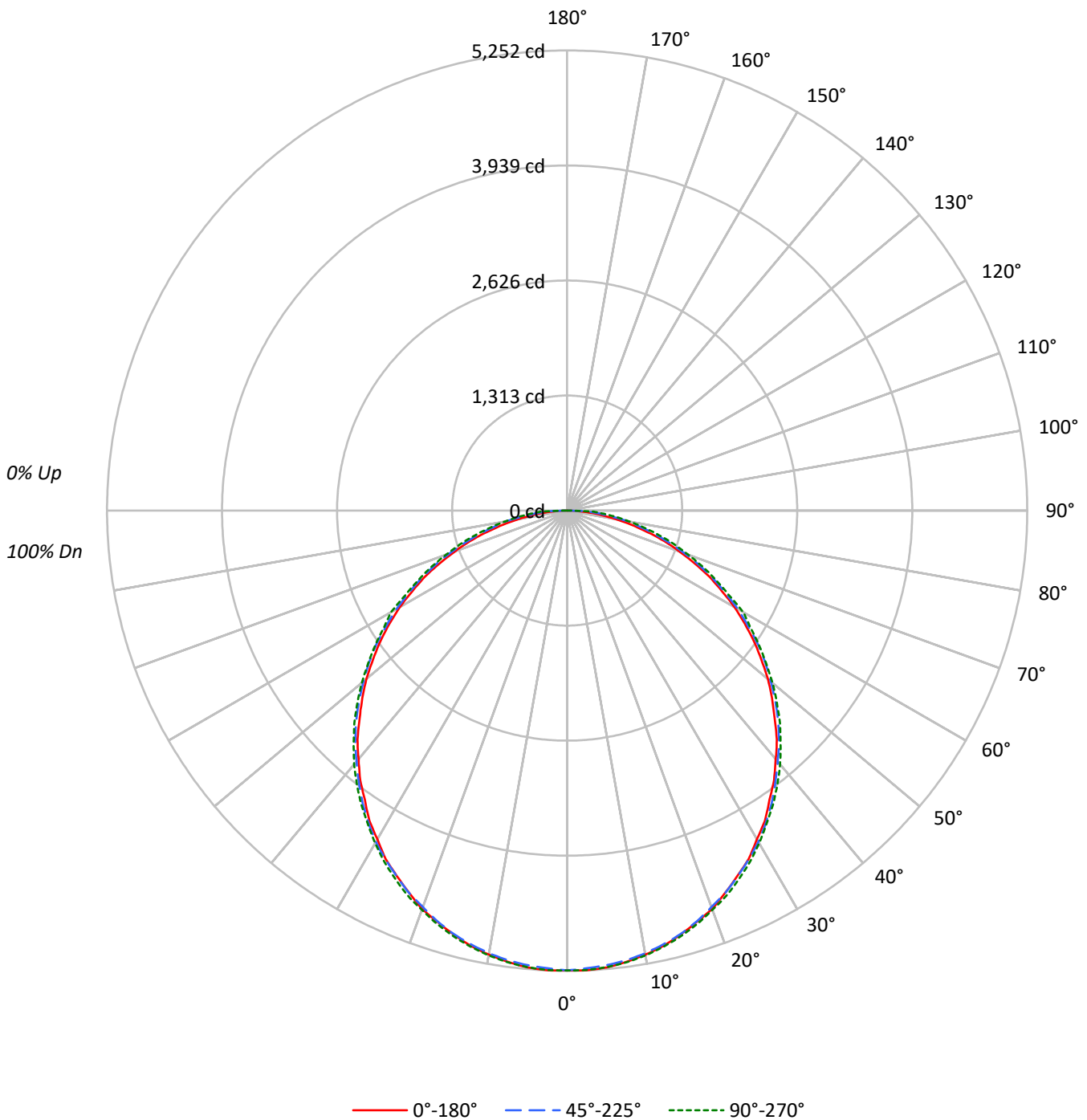
Lumens per Lamp: N/A  
Luminaire Lumens: 14862.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 131.3  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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





TEST NUMBER: P#

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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  | 50  | 30 | 10 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 94  | 91  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |    |    |    |    | 83  |   |  |   |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 85  | 79  | 74  | 81  | 77  | 73  | 78  | 74  | 71  | 69  |    |    |    |    | 69  |   |  |   |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 63  | 74  | 68  | 62  | 72  | 66  | 61  | 69  | 64  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  | 64  | 57  | 52  | 61  | 56  | 52  | 49  |    |    |    |    | 49  |   |  |   |
| 5   | 75  | 62  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 49  | 45  | 43  |    |    |    |    | 43  |   |  |   |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 40  | 53  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 39  | 37  |    |    |    |    | 37  |   |  |   |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |    |    |    |    | 33  |   |  |   |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 29  |    |    |    |    | 29  |   |  |   |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |    |    |    |    | 26  |   |  |   |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  |    |    |    |    | 24  |   |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7704 | 7704 | 7704 |
| 5°  | 7702 | 7617 | 7633 |
| 10° | 7654 | 7532 | 7538 |
| 15° | 7587 | 7433 | 7424 |
| 20° | 7525 | 7294 | 7287 |
| 25° | 7407 | 7171 | 7152 |
| 30° | 7288 | 7050 | 6991 |
| 35° | 7153 | 6879 | 6820 |
| 40° | 7023 | 6682 | 6639 |
| 45° | 6865 | 6508 | 6428 |
| 50° | 6729 | 6283 | 6185 |
| 55° | 6551 | 6055 | 5918 |
| 60° | 6334 | 5750 | 5735 |
| 65° | 6064 | 5399 | 5265 |
| 70° | 5651 | 4943 | 4844 |
| 75° | 5149 | 4438 | 4372 |
| 80° | 4504 | 3976 | 3781 |
| 85° | 3768 | 2995 | 3147 |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-FL-UNV-L850-CD2-U

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 496.1   | 3.3       |
| 10°-20°   | 1414.1  | 9.5       |
| 20°-30°   | 2127.9  | 14.3      |
| 30°-40°   | 2545.7  | 17.1      |
| 40°-50°   | 2623.4  | 17.7      |
| 50°-60°   | 2365.2  | 15.9      |
| 60°-70°   | 1816.6  | 12.2      |
| 70°-80°   | 1093.7  | 7.4       |
| 80°-90°   | 379.2   | 2.6       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 4038.1  | 27.2      |
| 0°-40°    | 6583.8  | 44.3      |
| 0°-60°    | 11572.5 | 77.9      |
| 0°-90°    | 14862.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 14862.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5249 | 5249  | 5249 | 5249  | 5249 |      |
| 5°  | 5233 | 5227  | 5208 | 5227  | 5230 | 497  |
| 15° | 5009 | 5015  | 5004 | 5025  | 5028 | 1414 |
| 25° | 4600 | 4603  | 4606 | 4632  | 4640 | 2121 |
| 35° | 4027 | 4067  | 4070 | 4094  | 4097 | 2524 |
| 45° | 3348 | 3378  | 3405 | 3432  | 3435 | 2588 |
| 55° | 2606 | 2627  | 2657 | 2673  | 2673 | 2325 |
| 65° | 1793 | 1798  | 1841 | 1863  | 1871 | 1766 |
| 75° | 950  | 977   | 1034 | 1071  | 1085 | 1009 |
| 85° | 256  | 296   | 353  | 401   | 420  | 288  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-FL-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5248.8 | 5248.8 | 5248.8 | 5248.8 | 5248.8 |
| 2.5°  | 5251.5 | 5248.8 | 5227.3 | 5243.4 | 5248.8 |
| 5°    | 5232.7 | 5227.3 | 5208.5 | 5227.3 | 5230.0 |
| 7.5°  | 5195.0 | 5192.3 | 5176.2 | 5195.0 | 5200.4 |
| 10°   | 5146.5 | 5146.5 | 5130.4 | 5149.2 | 5154.6 |
| 12.5° | 5087.3 | 5084.6 | 5071.2 | 5092.7 | 5098.1 |
| 15°   | 5009.3 | 5014.6 | 5003.9 | 5025.4 | 5028.1 |
| 17.5° | 4923.1 | 4925.8 | 4917.7 | 4936.6 | 4944.7 |
| 20°   | 4839.7 | 4826.2 | 4815.5 | 4847.8 | 4850.5 |
| 22.5° | 4718.6 | 4723.9 | 4721.3 | 4750.9 | 4756.2 |
| 25°   | 4600.1 | 4602.8 | 4605.5 | 4632.4 | 4640.5 |
| 27.5° | 4484.4 | 4481.7 | 4489.8 | 4511.3 | 4519.4 |
| 30°   | 4331.0 | 4352.5 | 4365.9 | 4382.1 | 4384.8 |
| 32.5° | 4199.1 | 4207.1 | 4223.3 | 4234.1 | 4236.7 |
| 35°   | 4026.8 | 4067.2 | 4069.9 | 4094.1 | 4096.8 |
| 37.5° | 3878.7 | 3892.2 | 3905.7 | 3935.3 | 3940.7 |
| 40°   | 3703.8 | 3722.6 | 3738.8 | 3765.7 | 3781.8 |
| 42.5° | 3542.3 | 3563.8 | 3580.0 | 3604.2 | 3606.9 |
| 45°   | 3348.5 | 3378.1 | 3405.0 | 3431.9 | 3434.6 |
| 47.5° | 3170.8 | 3200.4 | 3222.0 | 3243.5 | 3246.2 |
| 50°   | 2990.5 | 3014.7 | 3033.6 | 3060.5 | 3060.5 |
| 52.5° | 2791.3 | 2820.9 | 2850.5 | 2861.3 | 2861.3 |
| 55°   | 2605.6 | 2627.1 | 2656.7 | 2672.9 | 2672.9 |
| 57.5° | 2403.7 | 2414.5 | 2446.8 | 2476.4 | 2476.4 |
| 60°   | 2204.5 | 2218.0 | 2250.3 | 2271.8 | 2322.9 |
| 62.5° | 1991.9 | 2013.4 | 2034.9 | 2104.9 | 2075.3 |
| 65°   | 1792.7 | 1798.1 | 1841.1 | 1862.7 | 1870.7 |
| 67.5° | 1572.0 | 1590.8 | 1633.9 | 1658.1 | 1674.2 |
| 70°   | 1362.0 | 1386.2 | 1423.9 | 1453.5 | 1467.0 |
| 72.5° | 1162.8 | 1173.6 | 1222.0 | 1262.4 | 1281.3 |
| 75°   | 950.2  | 977.1  | 1033.6 | 1071.3 | 1084.8 |
| 77.5° | 748.3  | 791.4  | 845.2  | 977.1  | 901.7  |
| 80°   | 570.6  | 602.9  | 699.8  | 705.2  | 724.1  |
| 82.5° | 398.4  | 436.1  | 500.7  | 543.7  | 565.3  |
| 85°   | 255.7  | 296.1  | 352.6  | 401.1  | 419.9  |
| 87.5° | 118.4  | 161.5  | 234.2  | 288.0  | 304.2  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)