

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-LD5-22-W-UNV-L840-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 (P34173)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-22-W-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH OPEN WIDE DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

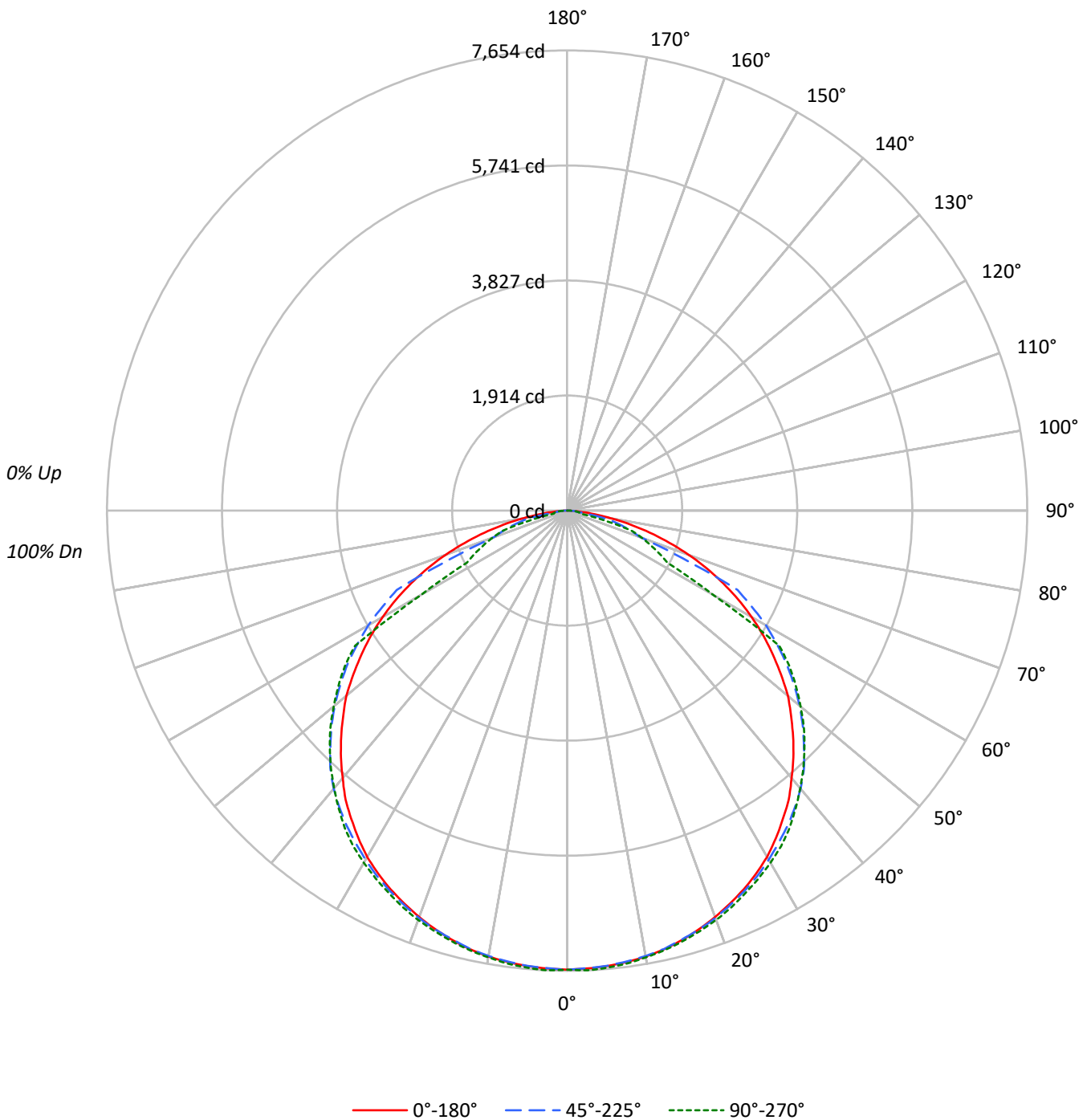
Lumens per Lamp: N/A  
Luminaire Lumens: 22036.0 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 167.7  
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





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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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 73  | 71  |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  | 60  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 51  |
| 5   | 77  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 61  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 44  |
| 6   | 71  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |
| 7   | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 34  |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 38  | 33  | 45  | 38  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 30  |
| 9   | 57  | 43  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 34  | 29  | 41  | 34  | 29  | 39  | 33  | 29  | 27  |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 37  | 31  | 26  | 25  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11208 | 11208 | 11208 |
| 5°  | 11194 | 11114 | 11140 |
| 10° | 11202 | 11046 | 11037 |
| 15° | 11196 | 10967 | 10951 |
| 20° | 11188 | 10921 | 10887 |
| 25° | 11189 | 10867 | 10817 |
| 30° | 11192 | 10828 | 10784 |
| 35° | 11117 | 10809 | 10732 |
| 40° | 11014 | 10799 | 10586 |
| 45° | 10898 | 10649 | 10450 |
| 50° | 10790 | 10456 | 10244 |
| 55° | 10498 | 10168 | 9992  |
| 60° | 10189 | 9760  | 6938  |
| 65° | 9690  | 9176  | 4759  |
| 70° | 8921  | 4487  | 4358  |
| 75° | 7711  | 3917  | 2721  |
| 80° | 5833  | 2333  | 1112  |
| 85° | 3047  | 1188  | 1025  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 724.4   | 3.3       |
| 10°-20°   | 2091.5  | 9.5       |
| 20°-30°   | 3224.7  | 14.6      |
| 30°-40°   | 3993.1  | 18.1      |
| 40°-50°   | 4250.7  | 19.3      |
| 50°-60°   | 3922.3  | 17.8      |
| 60°-70°   | 2511.3  | 11.4      |
| 70°-80°   | 1131.2  | 5.1       |
| 80°-90°   | 186.8   | 0.8       |
| 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°    | 6040.6  | 27.4      |
| 0°-40°    | 10033.6 | 45.5      |
| 0°-60°    | 18206.6 | 82.6      |
| 0°-90°    | 22036.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 22036.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 7636 | 7636  | 7636 | 7636  | 7636 |      |
| 5°  | 7606 | 7618  | 7600 | 7621  | 7633 | 724  |
| 15° | 7393 | 7405  | 7384 | 7420  | 7417 | 2088 |
| 25° | 6949 | 6967  | 6979 | 7025  | 7019 | 3205 |
| 35° | 6258 | 6322  | 6395 | 6462  | 6447 | 3917 |
| 45° | 5316 | 5425  | 5571 | 5608  | 5583 | 4102 |
| 55° | 4175 | 4327  | 4461 | 4534  | 4513 | 3734 |
| 65° | 2865 | 3002  | 3129 | 1727  | 1691 | 2829 |
| 75° | 1423 | 1548  | 912  | 937   | 675  | 1512 |
| 85° | 207  | 155   | 140  | 149   | 137  | 301  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 7636.1 | 7636.1 | 7636.1 | 7636.1 | 7636.1 |
| 2.5°  | 7623.9 | 7639.1 | 7617.8 | 7639.1 | 7654.3 |
| 5°    | 7605.7 | 7617.8 | 7599.6 | 7620.9 | 7633.0 |
| 7.5°  | 7575.3 | 7587.4 | 7566.1 | 7587.4 | 7599.6 |
| 10°   | 7532.7 | 7538.8 | 7523.6 | 7544.9 | 7547.9 |
| 12.5° | 7471.9 | 7478.0 | 7465.8 | 7487.1 | 7490.1 |
| 15°   | 7392.8 | 7405.0 | 7383.7 | 7420.2 | 7417.1 |
| 17.5° | 7301.6 | 7313.7 | 7304.6 | 7332.0 | 7335.0 |
| 20°   | 7195.1 | 7207.3 | 7210.3 | 7243.8 | 7246.8 |
| 22.5° | 7076.5 | 7094.8 | 7097.8 | 7143.4 | 7140.4 |
| 25°   | 6948.8 | 6967.1 | 6979.2 | 7024.8 | 7018.8 |
| 27.5° | 6808.9 | 6833.2 | 6851.5 | 6897.1 | 6897.1 |
| 30°   | 6650.8 | 6684.2 | 6705.5 | 6766.3 | 6763.3 |
| 32.5° | 6462.2 | 6526.1 | 6550.4 | 6626.5 | 6620.4 |
| 35°   | 6258.5 | 6322.4 | 6395.3 | 6462.2 | 6447.0 |
| 37.5° | 6057.8 | 6121.6 | 6222.0 | 6261.5 | 6243.3 |
| 40°   | 5808.4 | 5914.8 | 6042.6 | 6057.8 | 6030.4 |
| 42.5° | 5571.2 | 5656.4 | 5829.7 | 5838.8 | 5814.5 |
| 45°   | 5315.8 | 5425.2 | 5571.2 | 5607.7 | 5583.4 |
| 47.5° | 5051.2 | 5145.5 | 5315.8 | 5361.4 | 5343.1 |
| 50°   | 4795.7 | 4880.9 | 5048.1 | 5093.8 | 5069.4 |
| 52.5° | 4482.5 | 4610.2 | 4753.2 | 4826.2 | 4798.8 |
| 55°   | 4175.4 | 4327.4 | 4461.2 | 4534.2 | 4512.9 |
| 57.5° | 3868.2 | 4035.5 | 4135.8 | 4236.2 | 4184.5 |
| 60°   | 3545.9 | 3710.1 | 3819.6 | 3773.9 | 2809.9 |
| 62.5° | 3211.4 | 3369.5 | 3460.7 | 2320.3 | 1882.4 |
| 65°   | 2864.7 | 3001.5 | 3129.2 | 1727.3 | 1690.8 |
| 67.5° | 2511.9 | 2648.8 | 2083.1 | 1535.7 | 1502.3 |
| 70°   | 2150.0 | 2277.7 | 1292.4 | 1338.1 | 1319.8 |
| 72.5° | 1785.1 | 1906.7 | 1110.0 | 1161.7 | 1137.4 |
| 75°   | 1423.2 | 1547.9 | 912.3  | 936.6  | 675.1  |
| 77.5° | 1085.7 | 1067.4 | 735.9  | 517.0  | 231.1  |
| 80°   | 739.0  | 492.7  | 410.5  | 215.9  | 212.9  |
| 82.5° | 459.2  | 331.5  | 173.3  | 191.6  | 188.5  |
| 85°   | 206.8  | 155.1  | 139.9  | 149.0  | 136.8  |
| 87.5° | 73.0   | 76.0   | 85.1   | 79.1   | 73.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)