

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P544647

Luminaire Tested: **8TSLES-2-T8-1G-B840-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/2/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8TSLES-2-T8-1G-B840-U-ICF-4FT-REFL  
Description: 80CRI 4000K TLED with Reflector  
Light Source: MainsFit Glass TLED - (4) 4FT 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6430.4 lumens  
Efficiency: N/A  
Efficacy: 162.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.35 / 1.44  
Luminous Opening: Rectangular (W 0.92' x L: 8' x H: 0')  
CIE Type: Direct

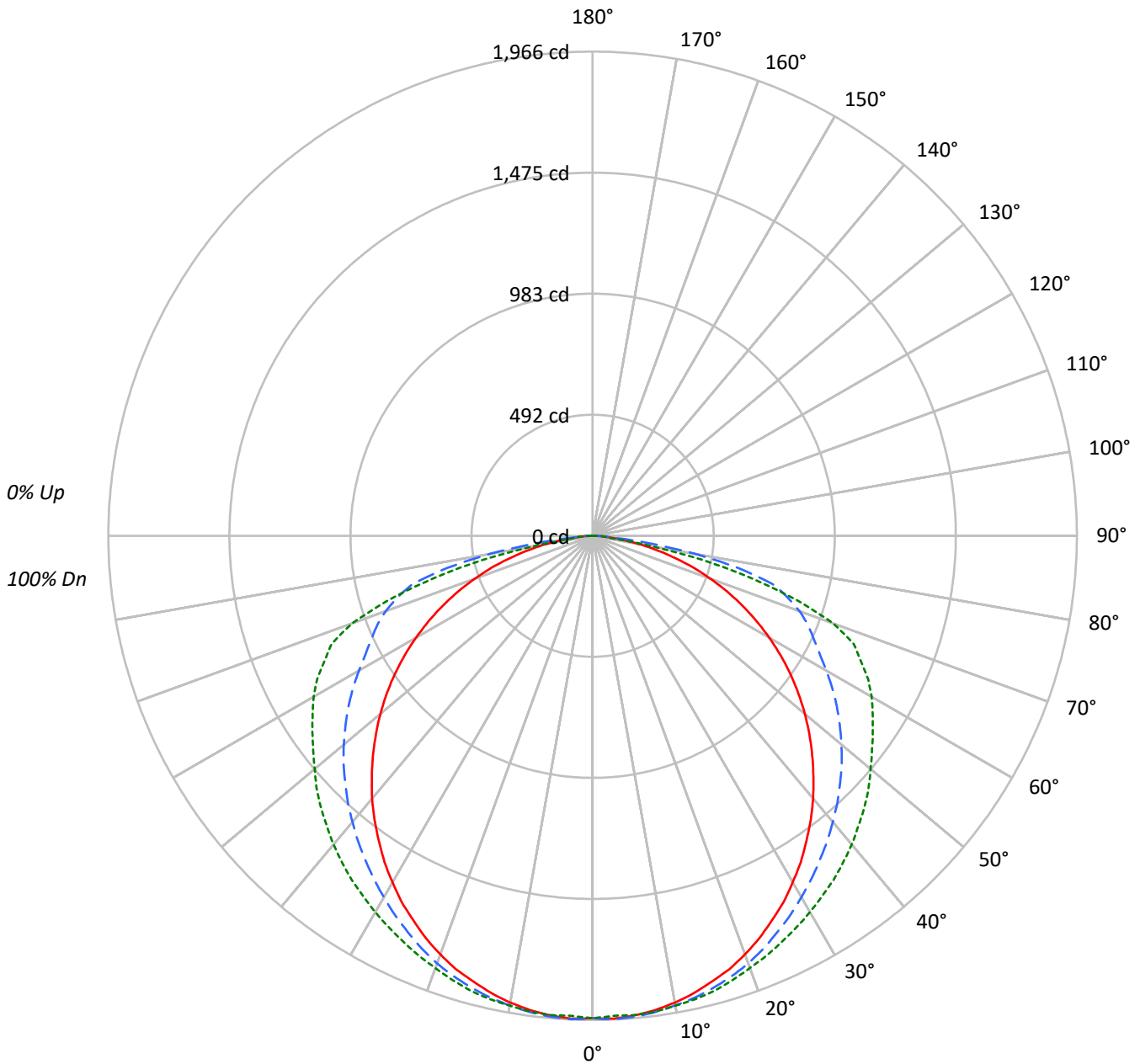
Input Watts (W): 39.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |     |     |     |     |     |     |     | 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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 1   | 108 | 103 | 98  | 94  | 105 | 100 | 96  | 92  | 96  | 92  | 89  | 92  | 89  | 86  | 88  | 86  | 84  | 82  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 2   | 97  | 88  | 81  | 75  | 94  | 86  | 79  | 74  | 83  | 77  | 72  | 79  | 75  | 70  | 76  | 72  | 69  | 66  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 3   | 88  | 77  | 68  | 61  | 85  | 75  | 67  | 60  | 72  | 65  | 59  | 69  | 63  | 58  | 67  | 61  | 57  | 55  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 4   | 80  | 67  | 58  | 51  | 78  | 66  | 57  | 51  | 63  | 56  | 50  | 61  | 54  | 49  | 59  | 53  | 48  | 46  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 5   | 73  | 60  | 50  | 43  | 71  | 59  | 50  | 43  | 57  | 49  | 43  | 55  | 48  | 42  | 53  | 47  | 42  | 39  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 6   | 68  | 54  | 44  | 38  | 66  | 53  | 44  | 37  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 41  | 36  | 34  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 7   | 63  | 49  | 39  | 33  | 61  | 48  | 39  | 33  | 46  | 38  | 33  | 45  | 38  | 32  | 43  | 37  | 32  | 30  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 8   | 58  | 44  | 35  | 29  | 57  | 43  | 35  | 29  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 29  | 27  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 9   | 54  | 40  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 24  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 10  | 51  | 37  | 29  | 24  | 50  | 37  | 29  | 24  | 36  | 28  | 24  | 35  | 28  | 23  | 34  | 28  | 23  | 21  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2875 | 2875 | 2875 |
| 5°  | 2881 | 2888 | 2879 |
| 10° | 2869 | 2886 | 2888 |
| 15° | 2847 | 2887 | 2907 |
| 20° | 2825 | 2887 | 2918 |
| 25° | 2790 | 2876 | 2946 |
| 30° | 2754 | 2873 | 2991 |
| 35° | 2711 | 2881 | 3056 |
| 40° | 2669 | 2906 | 3136 |
| 45° | 2617 | 2948 | 3239 |
| 50° | 2568 | 3011 | 3364 |
| 55° | 2510 | 3098 | 3554 |
| 60° | 2430 | 3216 | 3840 |
| 65° | 2329 | 3439 | 4168 |
| 70° | 2176 | 3835 | 4453 |
| 75° | 1932 | 4290 | 3811 |
| 80° | 1584 | 3549 | 1998 |
| 85° | 1000 | 1223 | 979  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 185.5  | 2.9       |
| 10°-20°   | 533.8  | 8.3       |
| 20°-30°   | 815.7  | 12.7      |
| 30°-40°   | 1005.0 | 15.6      |
| 40°-50°   | 1089.4 | 16.9      |
| 50°-60°   | 1067.7 | 16.6      |
| 60°-70°   | 954.1  | 14.8      |
| 70°-80°   | 641.9  | 10.0      |
| 80°-90°   | 137.3  | 2.1       |
| 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°    | 1535.0 | 23.9      |
| 0°-40°    | 2540.1 | 39.5      |
| 0°-60°    | 4697.2 | 73.0      |
| 0°-90°    | 6430.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6430.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1959 | 1959  | 1959 | 1959  | 1959 |      |
| 5°  | 1955 | 1931  | 1960 | 1960  | 1954 | 186  |
| 15° | 1873 | 1857  | 1900 | 1914  | 1913 | 529  |
| 25° | 1723 | 1719  | 1775 | 1807  | 1819 | 794  |
| 35° | 1513 | 1525  | 1608 | 1676  | 1705 | 947  |
| 45° | 1261 | 1288  | 1420 | 1522  | 1560 | 973  |
| 55° | 981  | 1036  | 1210 | 1337  | 1389 | 876  |
| 65° | 671  | 776   | 990  | 1152  | 1200 | 662  |
| 75° | 341  | 523   | 756  | 706   | 672  | 363  |
| 85° | 59   | 207   | 73   | 58    | 58   | 80   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1958.9 | 1958.9 | 1958.9 | 1958.9 | 1958.9 |
| 2.5°  | 1962.8 | 1936.4 | 1965.5 | 1965.5 | 1951.0 |
| 5°    | 1954.9 | 1931.2 | 1960.2 | 1960.2 | 1953.6 |
| 7.5°  | 1943.0 | 1920.6 | 1951.0 | 1951.0 | 1948.3 |
| 10°   | 1924.6 | 1903.4 | 1936.4 | 1940.4 | 1937.8 |
| 12.5° | 1902.1 | 1882.3 | 1920.6 | 1928.5 | 1927.2 |
| 15°   | 1873.1 | 1857.2 | 1899.5 | 1914.0 | 1912.7 |
| 17.5° | 1845.4 | 1828.2 | 1875.7 | 1892.9 | 1891.6 |
| 20°   | 1808.4 | 1795.2 | 1848.0 | 1863.8 | 1867.8 |
| 22.5° | 1768.8 | 1758.2 | 1813.7 | 1834.8 | 1845.4 |
| 25°   | 1722.6 | 1718.6 | 1775.4 | 1807.1 | 1819.0 |
| 27.5° | 1677.7 | 1673.8 | 1737.1 | 1779.4 | 1792.6 |
| 30°   | 1624.9 | 1627.6 | 1694.9 | 1745.0 | 1764.8 |
| 32.5° | 1572.1 | 1577.4 | 1652.6 | 1710.7 | 1734.5 |
| 35°   | 1512.7 | 1524.6 | 1607.8 | 1676.4 | 1705.4 |
| 37.5° | 1454.6 | 1469.2 | 1564.2 | 1642.1 | 1671.1 |
| 40°   | 1392.6 | 1409.8 | 1516.7 | 1603.8 | 1636.8 |
| 42.5° | 1326.6 | 1350.4 | 1470.5 | 1562.9 | 1597.2 |
| 45°   | 1260.6 | 1288.3 | 1420.3 | 1522.0 | 1560.2 |
| 47.5° | 1193.3 | 1227.6 | 1371.5 | 1479.7 | 1519.3 |
| 50°   | 1124.6 | 1165.6 | 1318.7 | 1433.5 | 1473.1 |
| 52.5° | 1053.4 | 1100.9 | 1264.6 | 1383.4 | 1429.6 |
| 55°   | 980.8  | 1036.2 | 1210.4 | 1337.2 | 1388.6 |
| 57.5° | 905.5  | 972.8  | 1153.7 | 1293.6 | 1347.7 |
| 60°   | 827.6  | 906.8  | 1095.6 | 1251.4 | 1308.1 |
| 62.5° | 749.8  | 842.2  | 1038.8 | 1210.4 | 1260.6 |
| 65°   | 670.6  | 776.2  | 990.0  | 1152.4 | 1199.9 |
| 67.5° | 590.0  | 711.5  | 946.4  | 1094.3 | 1147.1 |
| 70°   | 506.9  | 648.1  | 893.6  | 1029.6 | 1037.5 |
| 72.5° | 427.7  | 582.1  | 829.0  | 892.3  | 869.9  |
| 75°   | 340.6  | 522.7  | 756.4  | 706.2  | 671.9  |
| 77.5° | 262.7  | 477.8  | 604.6  | 505.6  | 463.3  |
| 80°   | 187.4  | 423.7  | 419.8  | 285.1  | 236.3  |
| 82.5° | 120.1  | 352.4  | 223.1  | 88.4   | 72.6   |
| 85°   | 59.4   | 207.2  | 72.6   | 58.1   | 58.1   |
| 87.5° | 21.1   | 81.8   | 50.2   | 34.3   | 30.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)