

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: FAIL-SAFE

Report Number: P735740

Luminaire Tested: **24APR-67-B2750-W2D-CP125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708973)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-67-B2750-W2D-CP125-3500K
Description: 2X4 6700 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

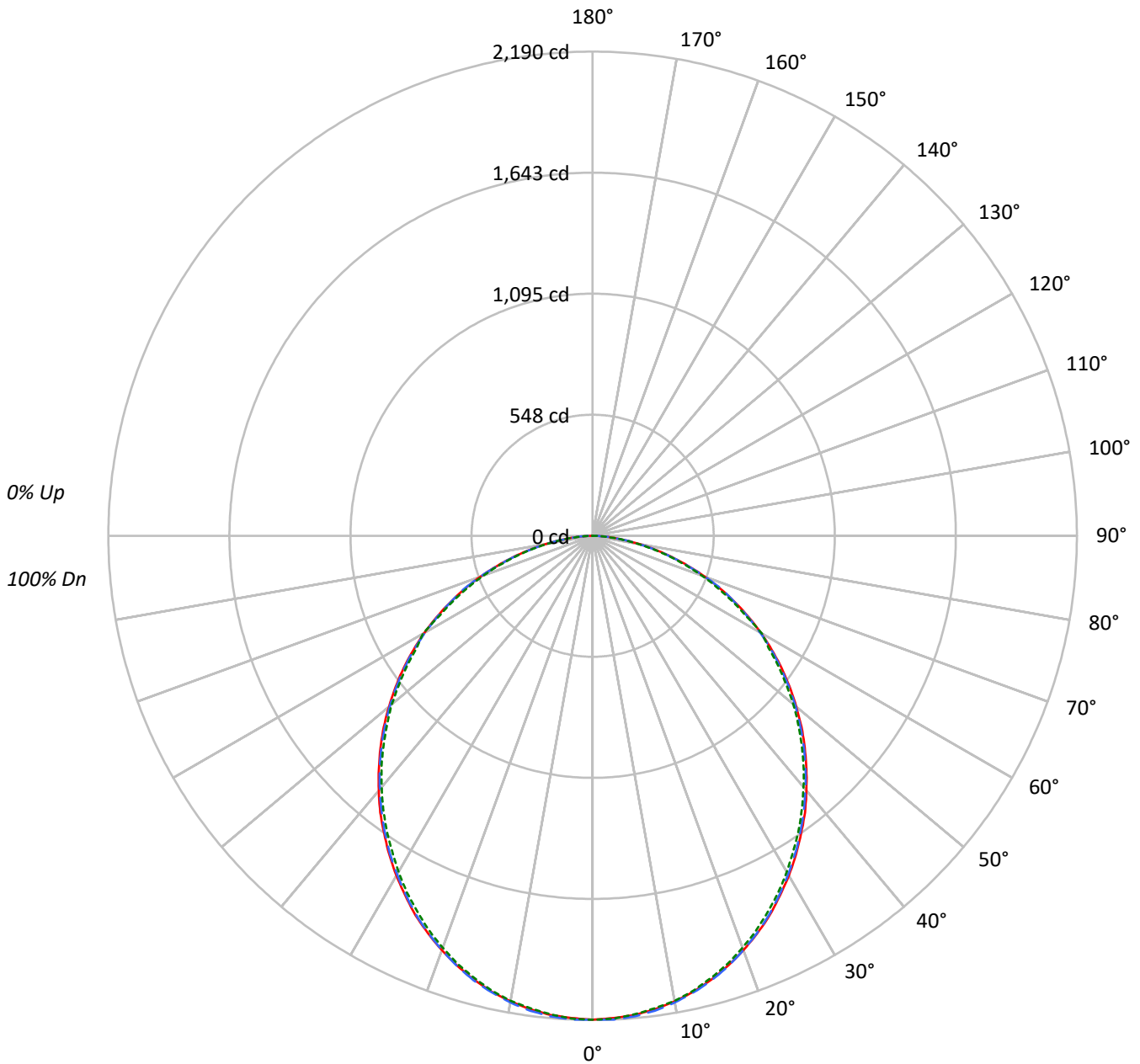
Lumens per Lamp: N/A
Luminaire Lumens: 5830.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): 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 | | | | | | | | | |
| 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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 | | | | | | | | | | | | | | | | | | | |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 72 | 70 | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 67 | 63 | 70 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 61 | 55 | 67 | 60 | 54 | 65 | 59 | 54 | 63 | 57 | 53 | 51 | | | | | | | | | | | | | | | | | | | |
| 5 | 76 | 63 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 46 | 44 | | | | | | | | | | | | | | | | | | | |
| 6 | 70 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 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 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 30 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 44 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2945 | 2945 | 2945 |
| 5° | 2938 | 2947 | 2935 |
| 10° | 2922 | 2928 | 2918 |
| 15° | 2894 | 2899 | 2883 |
| 20° | 2856 | 2855 | 2839 |
| 25° | 2813 | 2806 | 2785 |
| 30° | 2758 | 2748 | 2727 |
| 35° | 2700 | 2690 | 2668 |
| 40° | 2642 | 2629 | 2606 |
| 45° | 2582 | 2569 | 2542 |
| 50° | 2515 | 2505 | 2480 |
| 55° | 2447 | 2434 | 2403 |
| 60° | 2365 | 2350 | 2382 |
| 65° | 2257 | 2250 | 2208 |
| 70° | 2118 | 2120 | 2063 |
| 75° | 1922 | 1908 | 1864 |
| 80° | 1652 | 1630 | 1587 |
| 85° | 1263 | 1250 | 1155 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 206.7 | 3.5 |
| 10°-20° | 585.7 | 10.0 |
| 20°-30° | 869.3 | 14.9 |
| 30°-40° | 1023.2 | 17.6 |
| 40°-50° | 1039.9 | 17.8 |
| 50°-60° | 924.4 | 15.9 |
| 60°-70° | 697.3 | 12.0 |
| 70°-80° | 387.3 | 6.6 |
| 80°-90° | 96.3 | 1.7 |
| 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° | 1661.7 | 28.5 |
| 0°-40° | 2684.9 | 46.1 |
| 0°-60° | 4649.1 | 79.7 |
| 0°-90° | 5830.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5830.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2189 | 2189 | 2189 | 2189 | 2189 | |
| 5° | 2176 | 2179 | 2182 | 2178 | 2173 | 206 |
| 15° | 2078 | 2080 | 2081 | 2076 | 2070 | 586 |
| 25° | 1894 | 1893 | 1890 | 1882 | 1876 | 872 |
| 35° | 1644 | 1644 | 1638 | 1628 | 1625 | 1029 |
| 45° | 1357 | 1357 | 1350 | 1339 | 1336 | 1047 |
| 55° | 1043 | 1035 | 1037 | 1026 | 1024 | 932 |
| 65° | 709 | 705 | 707 | 698 | 693 | 702 |
| 75° | 370 | 365 | 367 | 364 | 359 | 392 |
| 85° | 82 | 80 | 81 | 78 | 75 | 98 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P735740

CATALOG NUMBER: 24APR-67-B2750-W2D-CP125-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2188.9 | 2188.9 | 2188.9 | 2188.9 | 2188.9 |
| 2.5° | 2183.3 | 2187.4 | 2190.2 | 2186.8 | 2186.1 |
| 5° | 2175.6 | 2179.0 | 2181.8 | 2178.4 | 2172.8 |
| 7.5° | 2160.1 | 2164.4 | 2166.5 | 2162.9 | 2155.3 |
| 10° | 2138.5 | 2142.7 | 2143.4 | 2139.9 | 2135.7 |
| 12.5° | 2112.0 | 2114.8 | 2114.8 | 2112.0 | 2107.1 |
| 15° | 2077.6 | 2079.8 | 2081.2 | 2076.3 | 2070.0 |
| 17.5° | 2038.6 | 2042.0 | 2040.7 | 2033.0 | 2030.2 |
| 20° | 1994.5 | 1997.3 | 1993.8 | 1988.9 | 1982.6 |
| 22.5° | 1946.2 | 1947.0 | 1944.2 | 1938.6 | 1932.2 |
| 25° | 1894.5 | 1893.2 | 1890.4 | 1882.0 | 1875.7 |
| 27.5° | 1834.4 | 1837.2 | 1830.2 | 1822.5 | 1818.4 |
| 30° | 1775.0 | 1775.6 | 1768.7 | 1758.9 | 1755.4 |
| 32.5° | 1711.4 | 1709.9 | 1705.1 | 1694.6 | 1689.0 |
| 35° | 1643.5 | 1644.2 | 1637.9 | 1628.2 | 1624.6 |
| 37.5° | 1577.8 | 1573.7 | 1568.8 | 1557.6 | 1555.4 |
| 40° | 1504.4 | 1503.7 | 1496.8 | 1486.9 | 1483.5 |
| 42.5° | 1431.1 | 1430.3 | 1424.7 | 1415.0 | 1412.2 |
| 45° | 1356.9 | 1356.9 | 1349.9 | 1338.7 | 1335.9 |
| 47.5° | 1281.4 | 1278.6 | 1273.7 | 1264.0 | 1260.5 |
| 50° | 1201.7 | 1199.6 | 1196.8 | 1185.6 | 1184.9 |
| 52.5° | 1123.5 | 1122.0 | 1117.1 | 1107.4 | 1101.8 |
| 55° | 1043.0 | 1035.4 | 1037.4 | 1026.2 | 1024.2 |
| 57.5° | 960.5 | 952.9 | 957.0 | 947.3 | 943.1 |
| 60° | 878.8 | 871.1 | 873.2 | 866.8 | 885.1 |
| 62.5° | 794.9 | 789.9 | 789.9 | 804.7 | 778.1 |
| 65° | 708.9 | 704.6 | 706.8 | 697.7 | 693.4 |
| 67.5° | 624.3 | 618.0 | 631.3 | 614.5 | 607.5 |
| 70° | 538.3 | 534.0 | 539.0 | 529.2 | 524.3 |
| 72.5° | 453.0 | 449.5 | 448.1 | 444.6 | 440.5 |
| 75° | 369.8 | 364.9 | 367.0 | 364.2 | 358.6 |
| 77.5° | 288.7 | 287.3 | 286.7 | 283.1 | 278.9 |
| 80° | 213.2 | 211.8 | 210.4 | 207.6 | 204.8 |
| 82.5° | 142.6 | 141.3 | 140.5 | 139.1 | 138.5 |
| 85° | 81.8 | 79.7 | 81.0 | 77.6 | 74.8 |
| 87.5° | 30.8 | 30.1 | 31.5 | 28.7 | 26.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)