

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: P257148

Luminaire Tested: **14GR-LD5-50-F125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257148  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-50-F125-UNV-L940-CD1-U  
Description: METALUX 1X4 GRLED TROFFER  
WITH F125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4257.9 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

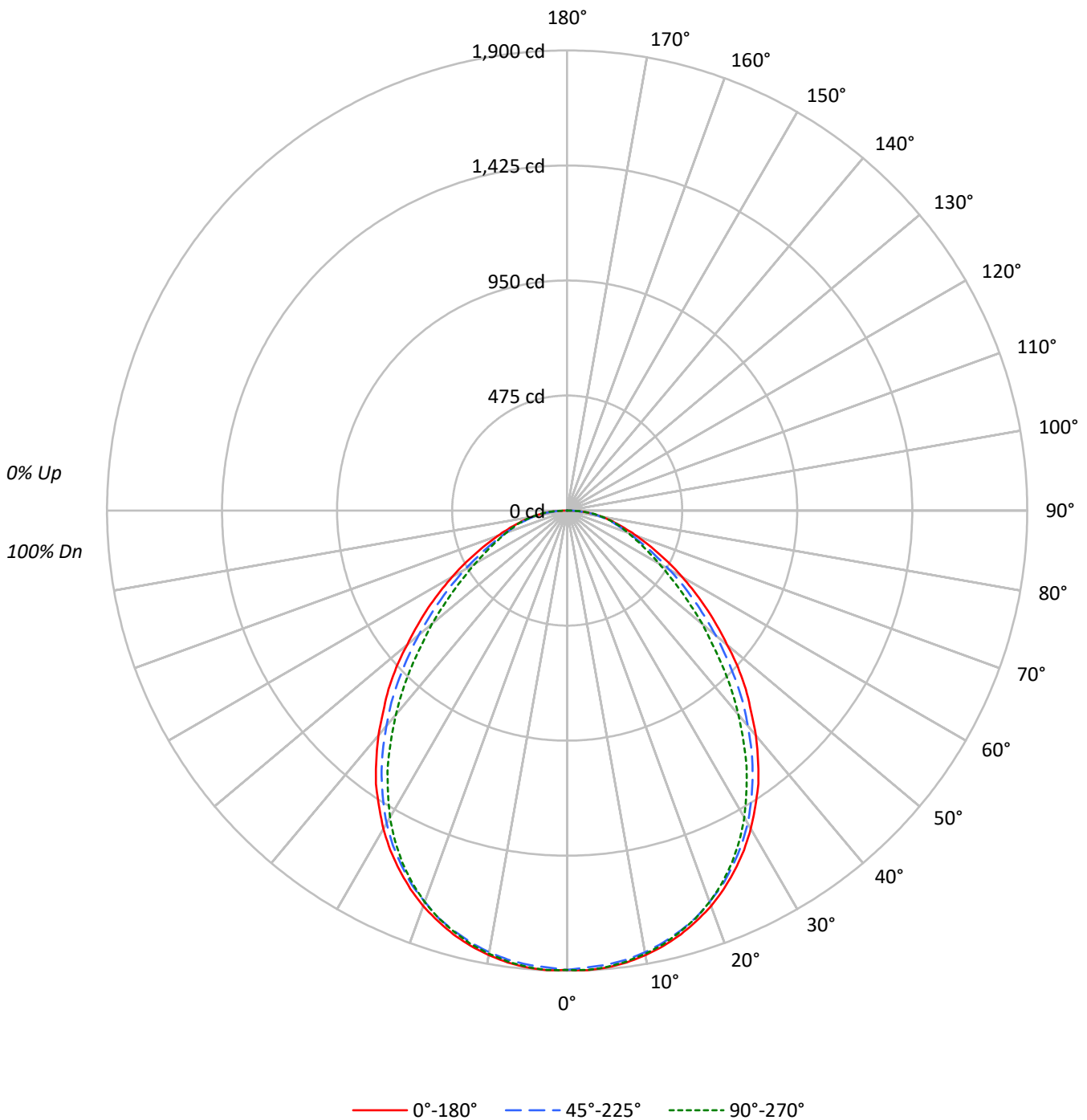
Input Watts (W): 45.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 88  | 85  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 88  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |
| 3   | 92  | 83  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 63  |
| 4   | 85  | 74  | 66  | 59  | 83  | 73  | 65  | 59  | 70  | 64  | 58  | 68  | 62  | 58  | 66  | 61  | 57  | 55  |
| 5   | 79  | 67  | 58  | 52  | 77  | 66  | 58  | 52  | 64  | 57  | 51  | 62  | 55  | 51  | 60  | 54  | 50  | 48  |
| 6   | 73  | 60  | 52  | 46  | 71  | 60  | 52  | 46  | 58  | 51  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 43  |
| 7   | 68  | 55  | 47  | 41  | 66  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |
| 8   | 64  | 51  | 43  | 37  | 62  | 50  | 42  | 37  | 49  | 42  | 37  | 47  | 41  | 36  | 46  | 41  | 36  | 34  |
| 9   | 60  | 47  | 39  | 34  | 58  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |
| 10  | 56  | 43  | 36  | 31  | 55  | 43  | 35  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6391 | 6391 | 6391 |
| 5°  | 6406 | 6365 | 6399 |
| 10° | 6377 | 6336 | 6357 |
| 15° | 6321 | 6272 | 6282 |
| 20° | 6232 | 6164 | 6167 |
| 25° | 6090 | 6016 | 5975 |
| 30° | 5902 | 5802 | 5693 |
| 35° | 5661 | 5496 | 5315 |
| 40° | 5333 | 5104 | 4835 |
| 45° | 4972 | 4672 | 4325 |
| 50° | 4521 | 4191 | 3819 |
| 55° | 4116 | 3716 | 3329 |
| 60° | 3690 | 3273 | 2957 |
| 65° | 3290 | 2917 | 2717 |
| 70° | 2993 | 2659 | 2629 |
| 75° | 2796 | 2589 | 2720 |
| 80° | 2812 | 2676 | 2831 |
| 85° | 2934 | 2745 | 3128 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 179.4  | 4.2       |
| 10°-20°   | 508.5  | 11.9      |
| 20°-30°   | 745.5  | 17.5      |
| 30°-40°   | 832.1  | 19.5      |
| 40°-50°   | 753.4  | 17.7      |
| 50°-60°   | 568.8  | 13.4      |
| 60°-70°   | 371.8  | 8.7       |
| 70°-80°   | 218.4  | 5.1       |
| 80°-90°   | 79.9   | 1.9       |
| 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°    | 1433.4 | 33.7      |
| 0°-40°    | 2265.5 | 53.2      |
| 0°-60°    | 3587.7 | 84.3      |
| 0°-90°    | 4257.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4257.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1897 | 1897  | 1897 | 1897  | 1897 |      |
| 5°  | 1894 | 1890  | 1882 | 1893  | 1892 | 180  |
| 15° | 1812 | 1809  | 1798 | 1808  | 1801 | 511  |
| 25° | 1638 | 1632  | 1618 | 1615  | 1607 | 753  |
| 35° | 1376 | 1364  | 1336 | 1306  | 1292 | 857  |
| 45° | 1043 | 1027  | 980  | 927   | 908  | 802  |
| 55° | 701  | 685   | 633  | 583   | 567  | 627  |
| 65° | 413  | 400   | 366  | 345   | 341  | 414  |
| 75° | 215  | 209   | 199  | 203   | 209  | 231  |
| 85° | 76   | 73    | 71   | 80    | 81   | 81   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1896.8 | 1896.8 | 1896.8 | 1896.8 | 1896.8 |
| 2.5°  | 1899.8 | 1896.8 | 1887.9 | 1899.8 | 1898.9 |
| 5°    | 1893.9 | 1889.8 | 1881.9 | 1892.9 | 1891.8 |
| 7.5°  | 1881.9 | 1877.9 | 1869.9 | 1879.9 | 1877.9 |
| 10°   | 1863.9 | 1859.8 | 1851.8 | 1862.8 | 1857.9 |
| 12.5° | 1840.9 | 1836.9 | 1827.9 | 1837.9 | 1833.9 |
| 15°   | 1811.9 | 1808.9 | 1797.9 | 1807.9 | 1800.9 |
| 17.5° | 1776.9 | 1771.9 | 1763.9 | 1770.0 | 1764.9 |
| 20°   | 1738.0 | 1732.0 | 1719.0 | 1725.0 | 1719.9 |
| 22.5° | 1690.9 | 1683.0 | 1674.0 | 1674.0 | 1667.0 |
| 25°   | 1638.0 | 1632.0 | 1618.0 | 1615.0 | 1607.0 |
| 27.5° | 1581.0 | 1576.0 | 1558.1 | 1553.1 | 1539.1 |
| 30°   | 1517.0 | 1510.1 | 1491.1 | 1475.1 | 1463.1 |
| 32.5° | 1446.1 | 1441.1 | 1415.1 | 1394.1 | 1377.2 |
| 35°   | 1376.2 | 1364.1 | 1336.2 | 1306.2 | 1292.2 |
| 37.5° | 1294.2 | 1285.2 | 1250.3 | 1213.3 | 1194.3 |
| 40°   | 1212.3 | 1201.2 | 1160.3 | 1119.3 | 1099.3 |
| 42.5° | 1123.3 | 1113.4 | 1074.3 | 1025.4 | 1004.4 |
| 45°   | 1043.4 | 1027.4 | 980.4  | 927.4  | 907.5  |
| 47.5° | 955.5  | 938.4  | 888.5  | 832.5  | 809.5  |
| 50°   | 862.5  | 851.5  | 799.5  | 745.5  | 728.6  |
| 52.5° | 779.5  | 762.6  | 713.5  | 660.6  | 642.6  |
| 55°   | 700.6  | 684.6  | 632.6  | 582.6  | 566.7  |
| 57.5° | 621.6  | 603.6  | 558.7  | 513.7  | 497.7  |
| 60°   | 547.6  | 529.7  | 485.7  | 448.7  | 438.8  |
| 62.5° | 480.7  | 460.7  | 421.7  | 392.8  | 385.8  |
| 65°   | 412.7  | 399.7  | 365.8  | 344.8  | 340.8  |
| 67.5° | 355.8  | 339.8  | 312.8  | 302.8  | 300.8  |
| 70°   | 303.8  | 292.8  | 269.9  | 266.9  | 266.9  |
| 72.5° | 256.9  | 247.9  | 230.8  | 232.9  | 235.9  |
| 75°   | 214.8  | 208.9  | 198.9  | 202.9  | 208.9  |
| 77.5° | 178.9  | 172.9  | 166.9  | 172.9  | 176.9  |
| 80°   | 144.9  | 138.9  | 137.9  | 142.9  | 145.9  |
| 82.5° | 109.0  | 104.0  | 104.9  | 112.9  | 115.9  |
| 85°   | 75.9   | 72.9   | 71.0   | 80.0   | 80.9   |
| 87.5° | 39.0   | 37.0   | 35.9   | 43.0   | 40.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)