

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: P290930

Luminaire Tested: **14GR-LD5-36-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290930  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-36-F125-UNV-L92765-W2A1-U-6500K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3469.0 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

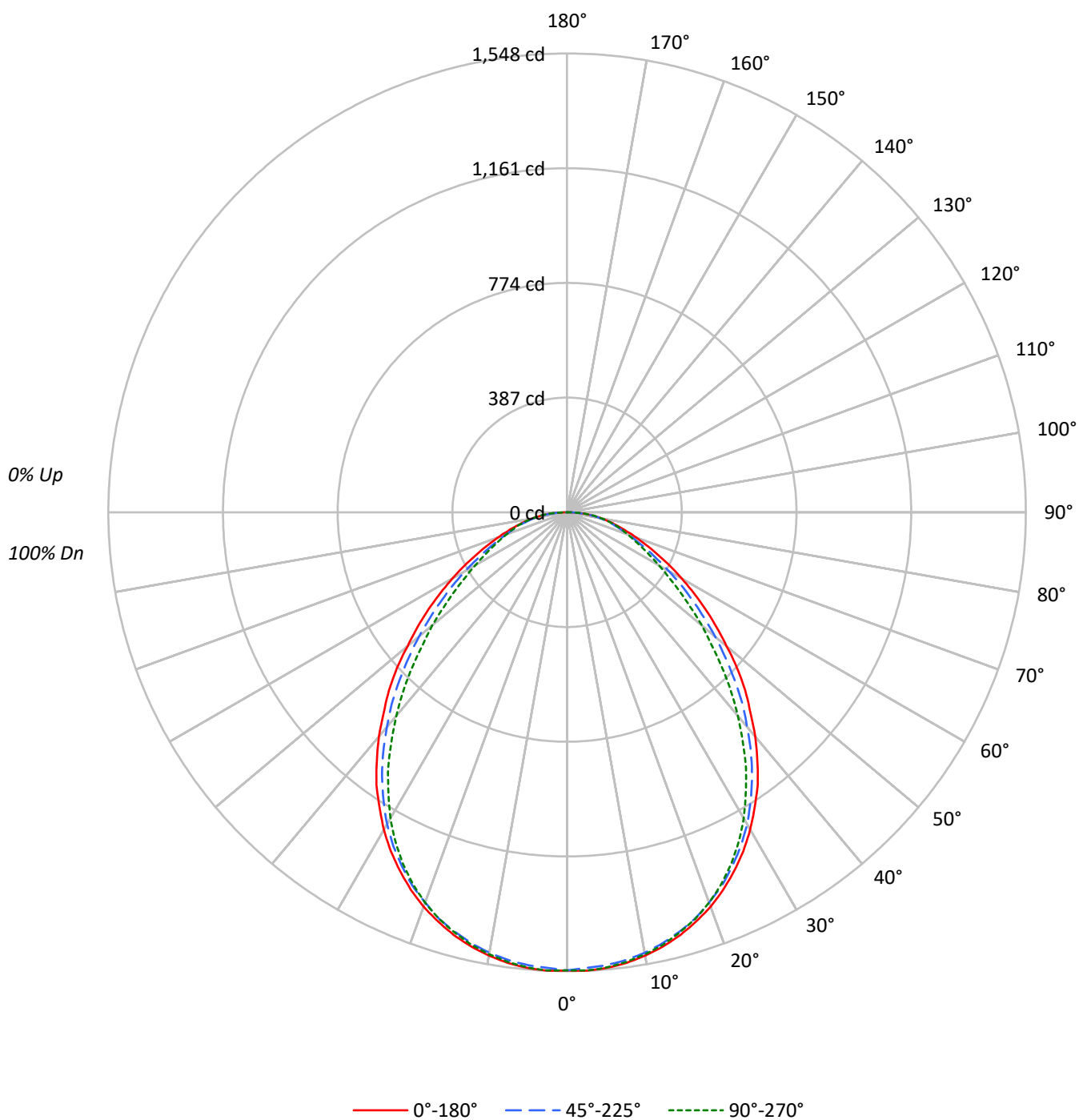
Input Watts (W): 30.69  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 88  | 83  | 78  |  | 84  | 80  | 77  |  | 81  |
| 3   | 92  | 83  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  |  | 75  | 70  | 66  |  | 73  |
| 4   | 85  | 74  | 66  | 59  | 83  | 73  | 65  | 59  | 70  | 64  | 58  |  | 68  | 62  | 58  |  | 66  |
| 5   | 79  | 67  | 58  | 52  | 77  | 66  | 58  | 52  | 64  | 57  | 51  |  | 62  | 55  | 51  |  | 60  |
| 6   | 73  | 60  | 52  | 46  | 71  | 60  | 52  | 46  | 58  | 51  | 45  |  | 56  | 50  | 45  |  | 55  |
| 7   | 68  | 55  | 47  | 41  | 66  | 54  | 47  | 41  | 53  | 46  | 41  |  | 51  | 45  | 40  |  | 50  |
| 8   | 64  | 51  | 43  | 37  | 62  | 50  | 42  | 37  | 49  | 42  | 37  |  | 47  | 41  | 36  |  | 46  |
| 9   | 60  | 47  | 39  | 34  | 58  | 46  | 39  | 33  | 45  | 38  | 33  |  | 44  | 38  | 33  |  | 43  |
| 10  | 56  | 43  | 36  | 31  | 55  | 43  | 35  | 31  | 42  | 35  | 30  |  | 41  | 35  | 30  |  | 40  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4159 | 4159 | 4159 |
| 5°  | 4168 | 4142 | 4163 |
| 10° | 4149 | 4123 | 4136 |
| 15° | 4113 | 4081 | 4088 |
| 20° | 4055 | 4011 | 4013 |
| 25° | 3962 | 3914 | 3888 |
| 30° | 3841 | 3775 | 3704 |
| 35° | 3683 | 3576 | 3459 |
| 40° | 3470 | 3321 | 3146 |
| 45° | 3235 | 3040 | 2813 |
| 50° | 2942 | 2727 | 2485 |
| 55° | 2678 | 2418 | 2166 |
| 60° | 2401 | 2130 | 1924 |
| 65° | 2141 | 1897 | 1768 |
| 70° | 1947 | 1729 | 1710 |
| 75° | 1821 | 1684 | 1770 |
| 80° | 1830 | 1742 | 1843 |
| 85° | 1911 | 1785 | 2038 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.1  | 4.2       |
| 10°-20°   | 414.3  | 11.9      |
| 20°-30°   | 607.4  | 17.5      |
| 30°-40°   | 677.9  | 19.5      |
| 40°-50°   | 613.8  | 17.7      |
| 50°-60°   | 463.4  | 13.4      |
| 60°-70°   | 303.0  | 8.7       |
| 70°-80°   | 177.9  | 5.1       |
| 80°-90°   | 65.1   | 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°    | 1167.8 | 33.7      |
| 0°-40°    | 1845.7 | 53.2      |
| 0°-60°    | 2923.0 | 84.3      |
| 0°-90°    | 3469.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3469.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1545 | 1545  | 1545 | 1545  | 1545 |      |
| 5°  | 1543 | 1540  | 1533 | 1542  | 1541 | 146  |
| 15° | 1476 | 1474  | 1465 | 1473  | 1467 | 416  |
| 25° | 1334 | 1330  | 1318 | 1316  | 1309 | 614  |
| 35° | 1121 | 1111  | 1089 | 1064  | 1053 | 698  |
| 45° | 850  | 837   | 799  | 756   | 739  | 653  |
| 55° | 571  | 558   | 515  | 475   | 462  | 511  |
| 65° | 336  | 326   | 298  | 281   | 278  | 337  |
| 75° | 175  | 170   | 162  | 165   | 170  | 188  |
| 85° | 62   | 59    | 58   | 65    | 66   | 66   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1545.4 | 1545.4 | 1545.4 | 1545.4 | 1545.4 |
| 2.5°  | 1547.9 | 1545.4 | 1538.1 | 1547.9 | 1547.0 |
| 5°    | 1543.0 | 1539.7 | 1533.2 | 1542.2 | 1541.3 |
| 7.5°  | 1533.2 | 1529.9 | 1523.4 | 1531.6 | 1529.9 |
| 10°   | 1518.5 | 1515.3 | 1508.8 | 1517.7 | 1513.7 |
| 12.5° | 1499.8 | 1496.6 | 1489.2 | 1497.4 | 1494.1 |
| 15°   | 1476.2 | 1473.8 | 1464.8 | 1473.0 | 1467.3 |
| 17.5° | 1447.7 | 1443.6 | 1437.1 | 1442.0 | 1437.9 |
| 20°   | 1416.0 | 1411.1 | 1400.5 | 1405.4 | 1401.3 |
| 22.5° | 1377.7 | 1371.2 | 1363.8 | 1363.8 | 1358.1 |
| 25°   | 1334.5 | 1329.6 | 1318.2 | 1315.8 | 1309.3 |
| 27.5° | 1288.1 | 1284.0 | 1269.4 | 1265.3 | 1253.9 |
| 30°   | 1236.0 | 1230.3 | 1214.8 | 1201.8 | 1192.0 |
| 32.5° | 1178.2 | 1174.1 | 1153.0 | 1135.9 | 1122.0 |
| 35°   | 1121.2 | 1111.4 | 1088.6 | 1064.2 | 1052.8 |
| 37.5° | 1054.4 | 1047.1 | 1018.6 | 988.5  | 973.0  |
| 40°   | 987.7  | 978.7  | 945.3  | 911.9  | 895.7  |
| 42.5° | 915.2  | 907.1  | 875.3  | 835.4  | 818.3  |
| 45°   | 850.1  | 837.0  | 798.8  | 755.6  | 739.3  |
| 47.5° | 778.4  | 764.6  | 723.9  | 678.3  | 659.5  |
| 50°   | 702.7  | 693.7  | 651.4  | 607.4  | 593.6  |
| 52.5° | 635.1  | 621.3  | 581.4  | 538.2  | 523.6  |
| 55°   | 570.8  | 557.8  | 515.4  | 474.7  | 461.7  |
| 57.5° | 506.5  | 491.8  | 455.2  | 418.5  | 405.5  |
| 60°   | 446.2  | 431.5  | 395.7  | 365.6  | 357.4  |
| 62.5° | 391.6  | 375.4  | 343.6  | 320.0  | 314.3  |
| 65°   | 336.3  | 325.7  | 298.0  | 280.9  | 277.7  |
| 67.5° | 289.9  | 276.8  | 254.9  | 246.7  | 245.1  |
| 70°   | 247.5  | 238.6  | 219.8  | 217.4  | 217.4  |
| 72.5° | 209.3  | 201.9  | 188.1  | 189.7  | 192.2  |
| 75°   | 175.1  | 170.2  | 162.0  | 165.3  | 170.2  |
| 77.5° | 145.7  | 140.9  | 136.0  | 140.9  | 144.1  |
| 80°   | 118.1  | 113.2  | 112.4  | 116.4  | 118.9  |
| 82.5° | 88.8   | 84.7   | 85.5   | 92.0   | 94.5   |
| 85°   | 61.9   | 59.4   | 57.8   | 65.1   | 66.0   |
| 87.5° | 31.8   | 30.1   | 29.3   | 35.0   | 33.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)