

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: P257145

Luminaire Tested: **14GR-LD5-36-F125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35602)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-36-F125-UNV-L940-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH F125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3210.4 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

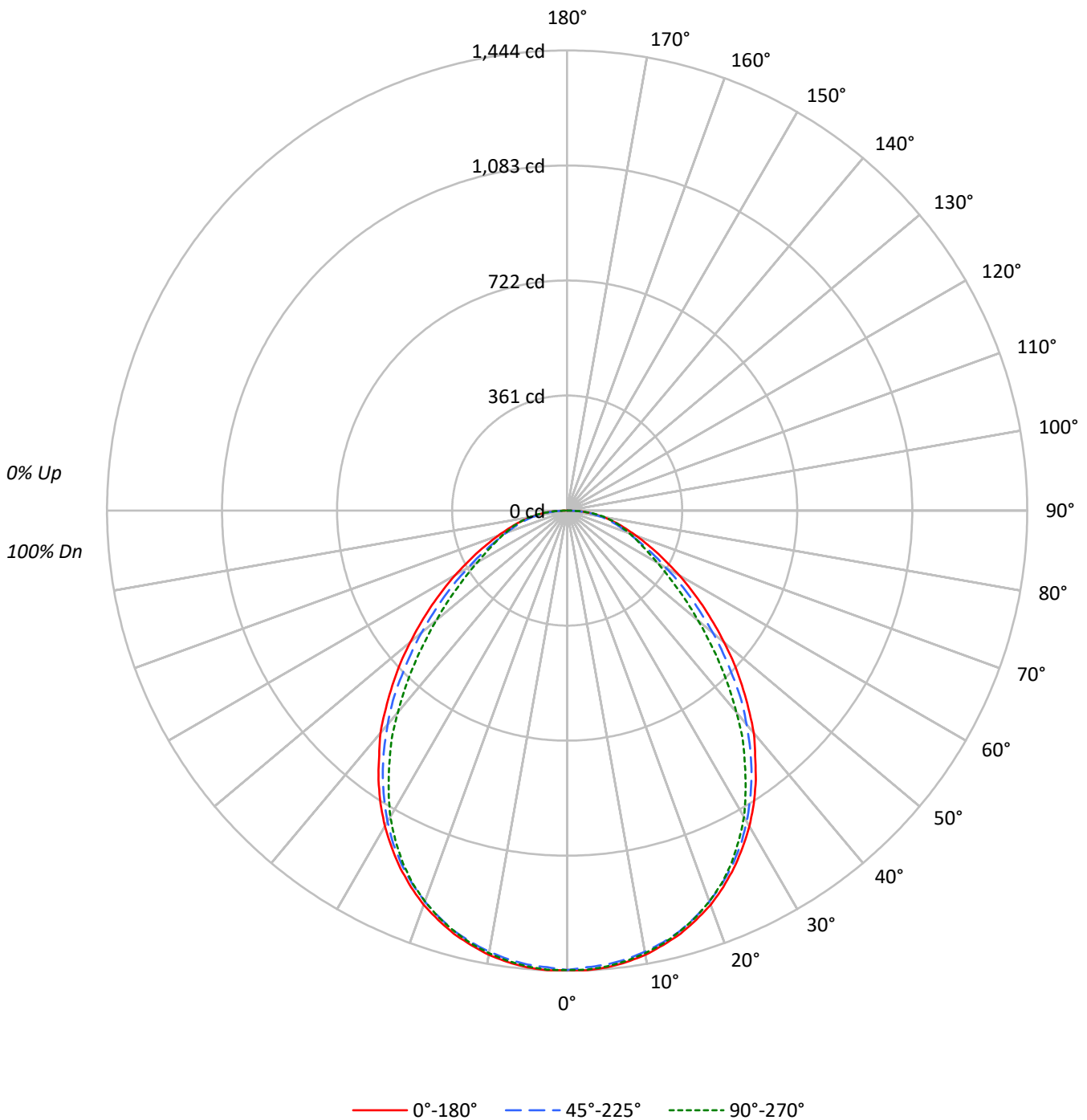
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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 |    |    |    |    | 100 |   |  |   |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  |     |    |    |    | 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  | 61  | 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  | 52  | 45  | 40  | 50  | 45  | 40  |     |    |    |    | 38 |     |   |  |   |
| 8   | 64  | 51  | 43  | 37  | 62  | 50  | 42  | 37  | 49  | 42  | 37  | 48  | 41  | 37  | 46  | 41  | 36  |     |    |    |    | 34 |     |   |  |   |
| 9   | 60  | 47  | 39  | 34  | 58  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  |     |    |    |    | 31 |     |   |  |   |
| 10  | 56  | 43  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  |     |    |    |    | 29 |     |   |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4859 | 4859 | 4859 |
| 5°  | 4867 | 4837 | 4857 |
| 10° | 4844 | 4810 | 4826 |
| 15° | 4795 | 4766 | 4769 |
| 20° | 4721 | 4681 | 4678 |
| 25° | 4603 | 4561 | 4536 |
| 30° | 4450 | 4385 | 4318 |
| 35° | 4245 | 4149 | 4001 |
| 40° | 4009 | 3854 | 3633 |
| 45° | 3696 | 3503 | 3221 |
| 50° | 3366 | 3131 | 2813 |
| 55° | 3042 | 2769 | 2452 |
| 60° | 2737 | 2409 | 2192 |
| 65° | 2457 | 2151 | 2055 |
| 70° | 2266 | 2001 | 2037 |
| 75° | 2186 | 1980 | 2147 |
| 80° | 2197 | 2065 | 2327 |
| 85° | 2347 | 2146 | 2436 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.2  | 4.2       |
| 10°-20°   | 385.8  | 12.0      |
| 20°-30°   | 564.7  | 17.6      |
| 30°-40°   | 627.6  | 19.5      |
| 40°-50°   | 564.2  | 17.6      |
| 50°-60°   | 421.9  | 13.1      |
| 60°-70°   | 277.8  | 8.7       |
| 70°-80°   | 168.9  | 5.3       |
| 80°-90°   | 63.2   | 2.0       |
| 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°    | 1086.7 | 33.9      |
| 0°-40°    | 1714.3 | 53.4      |
| 0°-60°    | 2700.5 | 84.1      |
| 0°-90°    | 3210.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3210.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1442 | 1442  | 1442 | 1442  | 1442 |      |
| 5°  | 1439 | 1436  | 1430 | 1437  | 1436 | 137  |
| 15° | 1374 | 1371  | 1366 | 1371  | 1367 | 387  |
| 25° | 1238 | 1236  | 1227 | 1225  | 1220 | 569  |
| 35° | 1032 | 1027  | 1009 | 987   | 973  | 644  |
| 45° | 776  | 767   | 735  | 696   | 676  | 598  |
| 55° | 518  | 507   | 471  | 432   | 417  | 465  |
| 65° | 308  | 297   | 270  | 258   | 258  | 308  |
| 75° | 168  | 160   | 152  | 160   | 165  | 179  |
| 85° | 61   | 56    | 56   | 64    | 63   | 65   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1441.9 | 1441.9 | 1441.9 | 1441.9 | 1441.9 |
| 2.5°  | 1444.1 | 1441.1 | 1434.4 | 1442.6 | 1441.9 |
| 5°    | 1438.9 | 1435.9 | 1429.9 | 1437.4 | 1435.9 |
| 7.5°  | 1429.1 | 1425.4 | 1420.1 | 1427.6 | 1425.4 |
| 10°   | 1415.6 | 1411.9 | 1405.9 | 1414.2 | 1410.4 |
| 12.5° | 1396.1 | 1393.9 | 1388.0 | 1393.9 | 1391.7 |
| 15°   | 1374.5 | 1371.4 | 1366.2 | 1370.7 | 1367.0 |
| 17.5° | 1346.7 | 1343.7 | 1337.7 | 1343.7 | 1339.2 |
| 20°   | 1316.7 | 1313.0 | 1305.5 | 1310.0 | 1304.7 |
| 22.5° | 1279.2 | 1275.6 | 1268.8 | 1271.0 | 1266.5 |
| 25°   | 1238.1 | 1235.8 | 1226.8 | 1224.6 | 1220.1 |
| 27.5° | 1192.3 | 1188.6 | 1180.4 | 1175.9 | 1166.8 |
| 30°   | 1143.6 | 1139.8 | 1127.1 | 1119.6 | 1109.9 |
| 32.5° | 1090.4 | 1084.4 | 1069.4 | 1056.7 | 1042.4 |
| 35°   | 1031.9 | 1026.7 | 1008.7 | 987.0  | 972.7  |
| 37.5° | 969.0  | 966.0  | 943.5  | 916.5  | 905.3  |
| 40°   | 911.3  | 900.1  | 876.1  | 843.1  | 825.9  |
| 42.5° | 842.4  | 834.9  | 809.3  | 772.6  | 751.0  |
| 45°   | 775.6  | 767.4  | 735.2  | 695.5  | 676.0  |
| 47.5° | 710.4  | 701.4  | 664.7  | 625.7  | 603.3  |
| 50°   | 642.2  | 634.8  | 597.3  | 553.8  | 536.6  |
| 52.5° | 578.5  | 568.8  | 529.8  | 490.9  | 475.8  |
| 55°   | 517.8  | 506.6  | 471.4  | 432.4  | 417.4  |
| 57.5° | 460.1  | 446.7  | 413.0  | 379.2  | 369.5  |
| 60°   | 406.2  | 391.2  | 357.5  | 332.7  | 325.3  |
| 62.5° | 353.7  | 342.5  | 312.5  | 293.8  | 289.3  |
| 65°   | 308.1  | 296.8  | 269.8  | 258.5  | 257.8  |
| 67.5° | 266.1  | 254.8  | 233.8  | 230.8  | 232.3  |
| 70°   | 230.0  | 220.3  | 203.1  | 204.6  | 206.8  |
| 72.5° | 196.3  | 187.4  | 176.9  | 180.6  | 185.1  |
| 75°   | 167.9  | 160.4  | 152.1  | 159.6  | 164.9  |
| 77.5° | 140.9  | 133.4  | 128.9  | 136.4  | 142.4  |
| 80°   | 113.2  | 107.9  | 106.4  | 114.6  | 119.9  |
| 82.5° | 87.7   | 83.2   | 80.9   | 91.4   | 93.7   |
| 85°   | 60.7   | 56.2   | 55.5   | 64.4   | 63.0   |
| 87.5° | 32.2   | 28.5   | 28.5   | 33.7   | 30.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)