

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: P225875

Luminaire Tested: **14GR-LD5-32-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A125-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3049.4 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

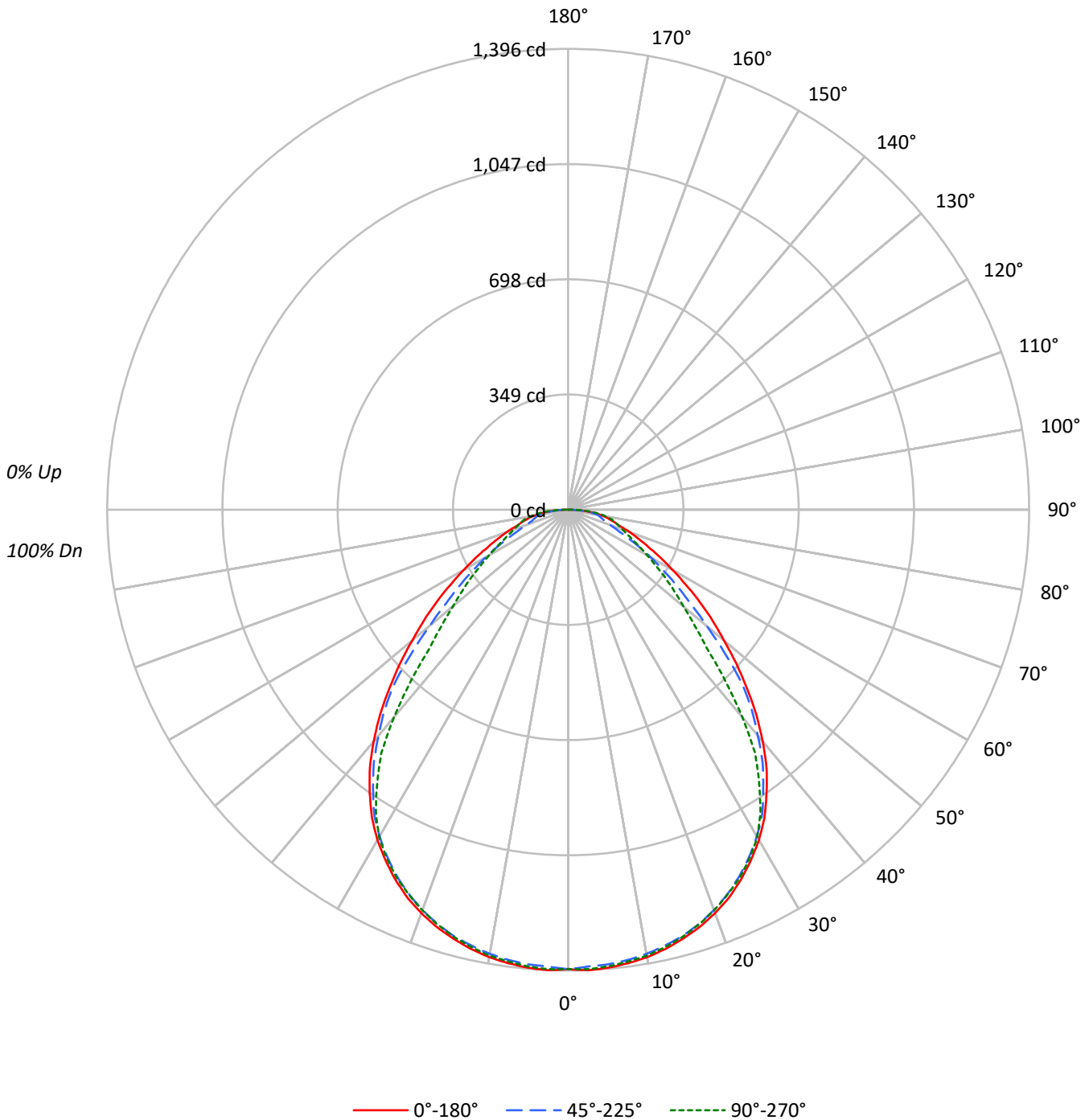
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 94 | 88 | 82 | 99 | 92 | 86 | 82 | 88 | 84 | 80 | 85 | 81 | 78 | 82 | 79 | 76 | 74 |
| 3 | 93 | 84 | 76 | 70 | 91 | 82 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 67 | 74 | 70 | 66 | 64 |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | 56 |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 50 |
| 6 | 74 | 62 | 54 | 48 | 72 | 61 | 53 | 47 | 59 | 52 | 47 | 58 | 51 | 47 | 56 | 51 | 46 | 44 |
| 7 | 69 | 56 | 48 | 43 | 67 | 56 | 48 | 42 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 40 |
| 8 | 65 | 52 | 44 | 38 | 63 | 51 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 36 |
| 9 | 60 | 48 | 40 | 35 | 59 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 33 |
| 10 | 57 | 44 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 41 | 35 | 31 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4689 | 4689 | 4689 |
| 5° | 4711 | 4676 | 4698 |
| 10° | 4710 | 4674 | 4693 |
| 15° | 4694 | 4664 | 4672 |
| 20° | 4663 | 4627 | 4632 |
| 25° | 4600 | 4558 | 4571 |
| 30° | 4495 | 4445 | 4456 |
| 35° | 4310 | 4237 | 4147 |
| 40° | 4030 | 3930 | 3606 |
| 45° | 3648 | 3543 | 2828 |
| 50° | 3226 | 2866 | 2385 |
| 55° | 2855 | 2356 | 2103 |
| 60° | 2465 | 1950 | 1864 |
| 65° | 2143 | 1552 | 1714 |
| 70° | 1938 | 1331 | 1714 |
| 75° | 1860 | 1390 | 1915 |
| 80° | 2072 | 1772 | 2237 |
| 85° | 2188 | 1887 | 2679 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 132.0 | 4.3 |
| 10°-20° | 378.3 | 12.4 |
| 20°-30° | 566.1 | 18.6 |
| 30°-40° | 640.8 | 21.0 |
| 40°-50° | 545.9 | 17.9 |
| 50°-60° | 369.6 | 12.1 |
| 60°-70° | 220.7 | 7.2 |
| 70°-80° | 137.8 | 4.5 |
| 80°-90° | 58.3 | 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° | 1076.4 | 35.3 |
| 0°-40° | 1717.2 | 56.3 |
| 0°-60° | 2632.6 | 86.3 |
| 0°-90° | 3049.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3049.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1392 | 1392 | 1392 | 1392 | 1392 | |
| 5° | 1393 | 1389 | 1382 | 1391 | 1389 | 132 |
| 15° | 1346 | 1341 | 1337 | 1346 | 1339 | 380 |
| 25° | 1237 | 1234 | 1226 | 1232 | 1230 | 569 |
| 35° | 1048 | 1041 | 1030 | 1019 | 1008 | 653 |
| 45° | 766 | 768 | 744 | 634 | 594 | 590 |
| 55° | 486 | 459 | 401 | 358 | 358 | 435 |
| 65° | 269 | 224 | 195 | 208 | 215 | 271 |
| 75° | 143 | 128 | 107 | 140 | 147 | 154 |
| 85° | 57 | 52 | 49 | 62 | 69 | 61 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P225875

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1391.6 | 1391.6 | 1391.6 | 1391.6 | 1391.6 |
| 2.5° | 1396.5 | 1392.9 | 1385.2 | 1394.4 | 1392.9 |
| 5° | 1392.9 | 1389.4 | 1382.4 | 1390.8 | 1388.8 |
| 7.5° | 1385.8 | 1382.4 | 1376.0 | 1384.5 | 1380.9 |
| 10° | 1376.6 | 1372.5 | 1366.1 | 1375.3 | 1371.7 |
| 12.5° | 1362.5 | 1358.3 | 1352.6 | 1361.8 | 1356.9 |
| 15° | 1345.5 | 1340.6 | 1337.1 | 1345.5 | 1339.2 |
| 17.5° | 1325.1 | 1320.8 | 1315.9 | 1324.3 | 1317.2 |
| 20° | 1300.3 | 1296.8 | 1290.4 | 1295.3 | 1291.8 |
| 22.5° | 1272.0 | 1267.0 | 1260.6 | 1266.4 | 1261.4 |
| 25° | 1237.3 | 1233.8 | 1226.0 | 1231.7 | 1229.5 |
| 27.5° | 1197.7 | 1195.6 | 1186.4 | 1193.5 | 1189.9 |
| 30° | 1155.2 | 1149.6 | 1142.5 | 1144.7 | 1145.3 |
| 32.5° | 1106.5 | 1099.4 | 1093.7 | 1088.7 | 1083.8 |
| 35° | 1047.7 | 1041.3 | 1030.0 | 1019.4 | 1008.1 |
| 37.5° | 986.9 | 978.4 | 967.1 | 943.8 | 929.6 |
| 40° | 916.1 | 911.9 | 893.5 | 861.0 | 819.9 |
| 42.5° | 844.0 | 839.7 | 823.5 | 750.6 | 706.1 |
| 45° | 765.5 | 767.6 | 743.6 | 633.9 | 593.5 |
| 47.5° | 690.5 | 696.2 | 643.7 | 541.2 | 520.0 |
| 50° | 615.4 | 621.8 | 546.8 | 467.6 | 454.9 |
| 52.5° | 549.6 | 544.7 | 466.2 | 410.3 | 404.7 |
| 55° | 486.0 | 459.1 | 401.1 | 358.0 | 358.0 |
| 57.5° | 421.0 | 382.7 | 341.0 | 313.4 | 313.4 |
| 60° | 365.7 | 318.3 | 289.4 | 270.9 | 276.6 |
| 62.5° | 314.8 | 264.6 | 239.8 | 236.3 | 243.3 |
| 65° | 268.8 | 224.2 | 194.6 | 208.0 | 215.0 |
| 67.5° | 231.3 | 191.7 | 159.9 | 188.2 | 192.5 |
| 70° | 196.7 | 167.0 | 135.1 | 173.4 | 174.0 |
| 72.5° | 164.8 | 147.1 | 116.0 | 157.1 | 159.9 |
| 75° | 142.9 | 128.0 | 106.8 | 140.0 | 147.1 |
| 77.5° | 125.2 | 109.7 | 98.4 | 120.9 | 134.4 |
| 80° | 106.8 | 89.8 | 91.3 | 101.8 | 115.3 |
| 82.5° | 82.1 | 69.3 | 72.2 | 83.4 | 94.1 |
| 85° | 56.6 | 52.3 | 48.8 | 61.5 | 69.3 |
| 87.5° | 30.4 | 28.3 | 24.8 | 34.7 | 35.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)