

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: P183932

Luminaire Tested: **14SR-LD2-41-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34451)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-41-C-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3956.6 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.42 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

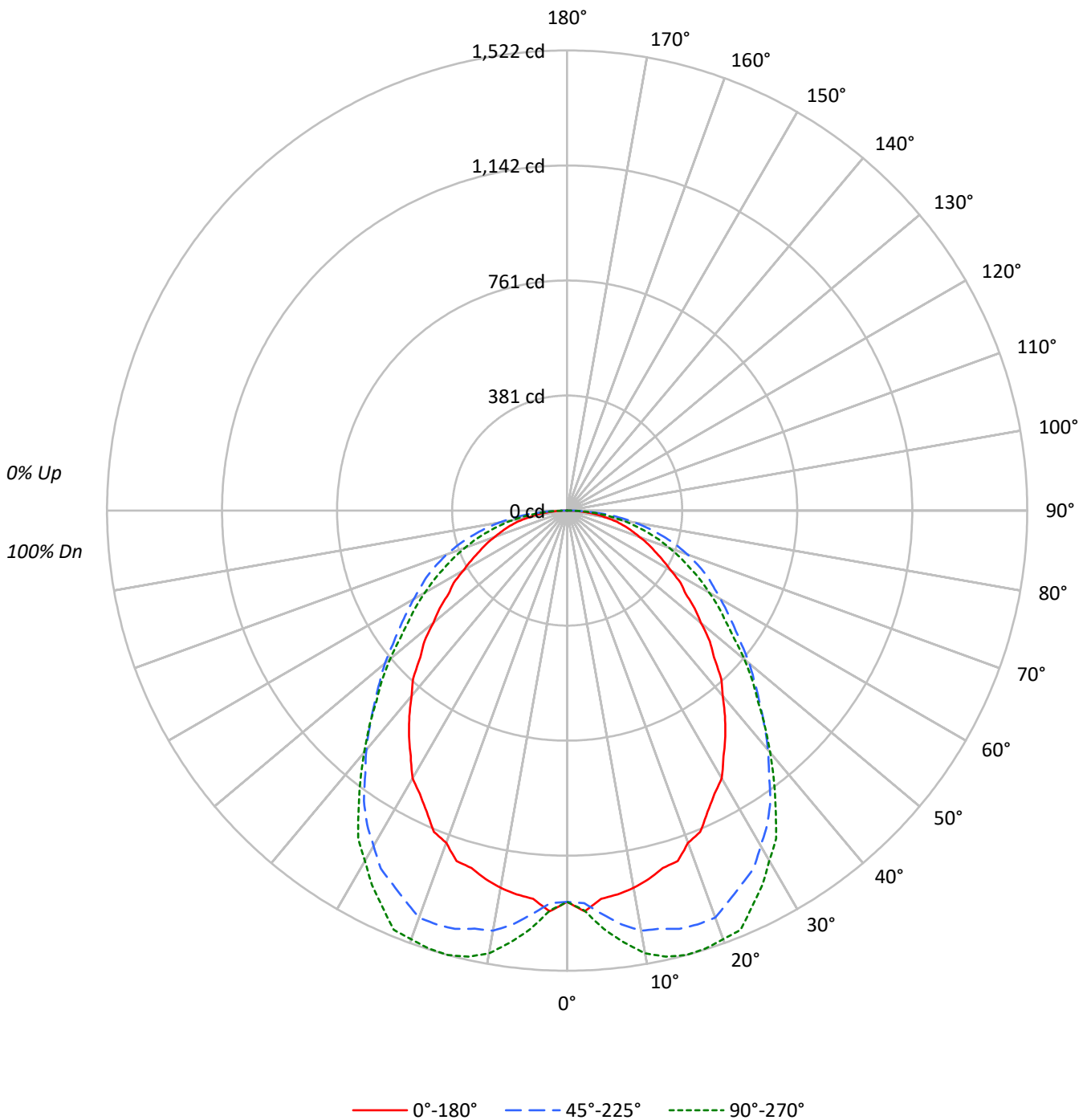
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 93 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 77 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 65 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 58 |
| 4 | 83 | 70 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 41 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 49 | 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° | 3482 | 3482 | 3482 |
| 5° | 3481 | 3620 | 3752 |
| 10° | 3462 | 3855 | 4062 |
| 15° | 3409 | 3991 | 4240 |
| 20° | 3349 | 4102 | 4320 |
| 25° | 3263 | 4052 | 4293 |
| 30° | 3178 | 3979 | 4156 |
| 35° | 2995 | 3850 | 3948 |
| 40° | 2811 | 3631 | 3669 |
| 45° | 2612 | 3428 | 3397 |
| 50° | 2419 | 3294 | 3203 |
| 55° | 2240 | 3169 | 3004 |
| 60° | 2132 | 3154 | 2920 |
| 65° | 2038 | 3247 | 2850 |
| 70° | 2006 | 3330 | 2817 |
| 75° | 2031 | 3413 | 2821 |
| 80° | 1976 | 3532 | 2859 |
| 85° | 1927 | 3603 | 2847 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 130.4 | 3.3 |
| 10°-20° | 400.5 | 10.1 |
| 20°-30° | 616.6 | 15.6 |
| 30°-40° | 705.8 | 17.8 |
| 40°-50° | 667.2 | 16.9 |
| 50°-60° | 566.7 | 14.3 |
| 60°-70° | 450.6 | 11.4 |
| 70°-80° | 305.5 | 7.7 |
| 80°-90° | 113.3 | 2.9 |
| 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° | 1147.5 | 29.0 |
| 0°-40° | 1853.3 | 46.8 |
| 0°-60° | 3087.2 | 78.0 |
| 0°-90° | 3956.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3956.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1294 | 1294 | 1294 | 1294 | 1294 | |
| 5° | 1289 | 1316 | 1340 | 1386 | 1389 | 123 |
| 15° | 1224 | 1354 | 1432 | 1517 | 1522 | 346 |
| 25° | 1099 | 1283 | 1365 | 1438 | 1446 | 507 |
| 35° | 912 | 1096 | 1172 | 1205 | 1202 | 570 |
| 45° | 686 | 849 | 901 | 912 | 893 | 534 |
| 55° | 478 | 621 | 676 | 659 | 640 | 434 |
| 65° | 320 | 458 | 510 | 467 | 448 | 320 |
| 75° | 195 | 315 | 328 | 282 | 271 | 205 |
| 85° | 62 | 133 | 117 | 95 | 92 | 69 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P183932

CATALOG NUMBER: 14SR-LD2-41-C-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1294.1 | 1294.1 | 1294.1 | 1294.1 | 1294.1 |
| 2.5° | 1326.7 | 1307.7 | 1299.5 | 1326.7 | 1324.0 |
| 5° | 1288.7 | 1315.8 | 1340.2 | 1386.4 | 1389.1 |
| 7.5° | 1280.5 | 1342.9 | 1380.9 | 1437.9 | 1440.6 |
| 10° | 1267.0 | 1348.4 | 1410.8 | 1478.6 | 1486.7 |
| 12.5° | 1248.0 | 1353.8 | 1416.2 | 1500.3 | 1511.2 |
| 15° | 1223.6 | 1353.8 | 1432.5 | 1516.6 | 1522.0 |
| 17.5° | 1215.4 | 1353.8 | 1435.2 | 1508.4 | 1519.3 |
| 20° | 1169.3 | 1340.2 | 1432.5 | 1497.6 | 1508.4 |
| 22.5° | 1150.3 | 1315.8 | 1397.2 | 1475.9 | 1500.3 |
| 25° | 1098.8 | 1283.3 | 1364.6 | 1437.9 | 1446.0 |
| 27.5° | 1055.4 | 1248.0 | 1334.8 | 1397.2 | 1397.2 |
| 30° | 1022.8 | 1204.6 | 1280.5 | 1340.2 | 1337.5 |
| 32.5° | 963.1 | 1144.9 | 1231.7 | 1277.8 | 1286.0 |
| 35° | 911.6 | 1096.1 | 1172.0 | 1204.6 | 1201.9 |
| 37.5° | 857.3 | 1033.7 | 1096.1 | 1134.0 | 1123.2 |
| 40° | 800.3 | 971.3 | 1033.7 | 1058.1 | 1044.5 |
| 42.5° | 754.2 | 906.1 | 965.8 | 982.1 | 968.5 |
| 45° | 686.4 | 849.2 | 900.7 | 911.6 | 892.6 |
| 47.5° | 640.3 | 786.8 | 841.0 | 841.0 | 830.2 |
| 50° | 577.9 | 727.1 | 786.8 | 770.5 | 765.1 |
| 52.5° | 531.8 | 675.5 | 727.1 | 713.5 | 697.2 |
| 55° | 477.5 | 621.3 | 675.5 | 659.3 | 640.3 |
| 57.5° | 444.9 | 577.9 | 629.4 | 610.4 | 594.2 |
| 60° | 396.1 | 534.5 | 586.0 | 561.6 | 542.6 |
| 62.5° | 358.1 | 496.5 | 545.3 | 515.5 | 496.5 |
| 65° | 320.1 | 458.5 | 510.0 | 466.6 | 447.6 |
| 67.5° | 290.3 | 423.2 | 466.6 | 420.5 | 404.2 |
| 70° | 255.0 | 382.5 | 423.2 | 374.4 | 358.1 |
| 72.5° | 225.2 | 350.0 | 377.1 | 328.3 | 317.4 |
| 75° | 195.3 | 314.7 | 328.3 | 282.2 | 271.3 |
| 77.5° | 165.5 | 279.4 | 279.4 | 238.7 | 227.9 |
| 80° | 127.5 | 238.7 | 227.9 | 192.6 | 184.5 |
| 82.5° | 97.7 | 189.9 | 173.6 | 143.8 | 138.4 |
| 85° | 62.4 | 132.9 | 116.7 | 95.0 | 92.2 |
| 87.5° | 29.8 | 70.5 | 57.0 | 46.1 | 43.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)