

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: P183775

Luminaire Tested: **24SR-LD2-34-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34443)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-34-C-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3845.0 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

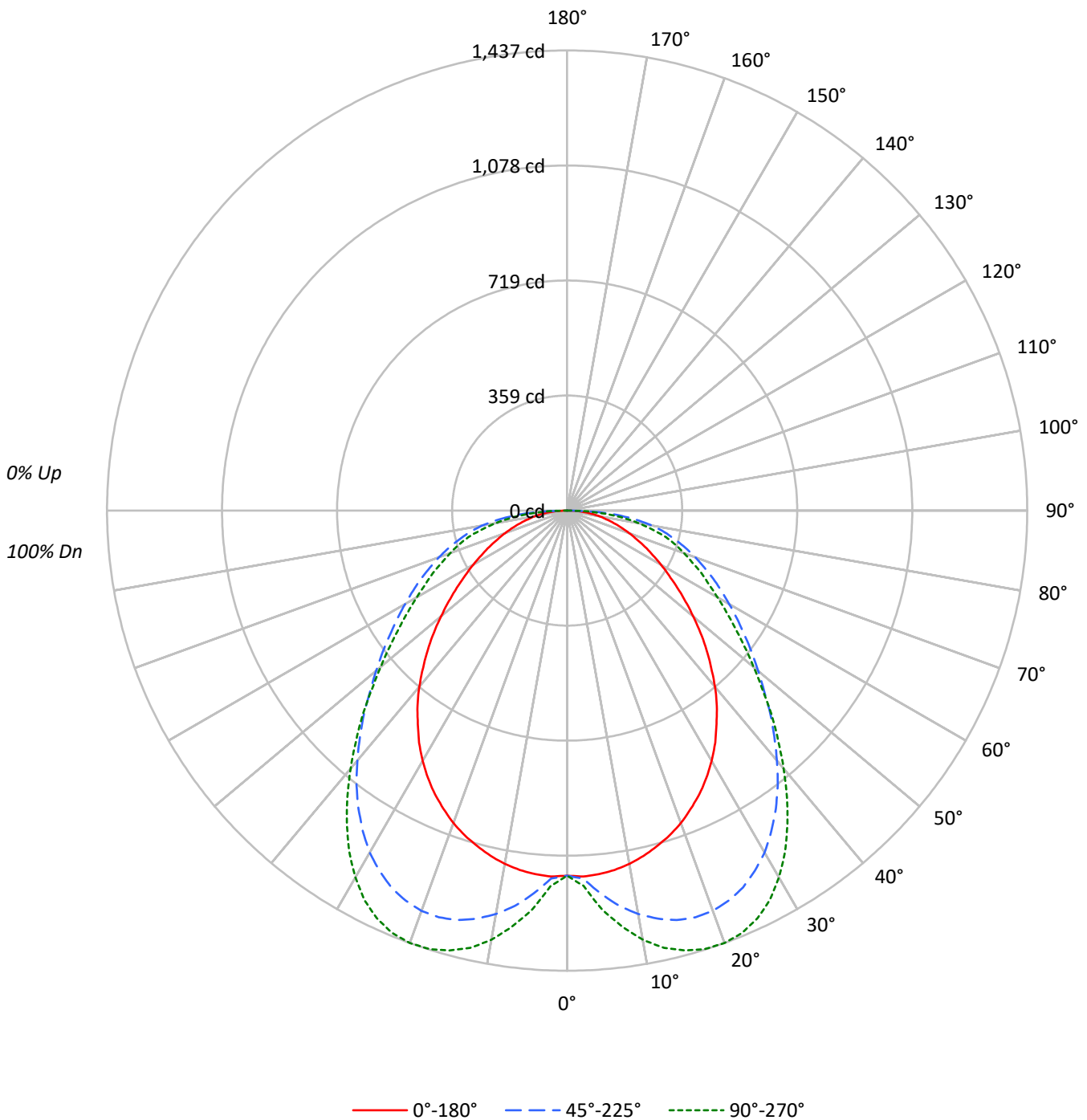
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 98 | 94 | 105 | 101 | 96 | 93 | 96 | 93 | 90 | 92 | 89 | 87 | 89 | 86 | 84 | 82 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 74 | 81 | 76 | 72 | 78 | 74 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 65 | 61 | 68 | 64 | 60 | 57 |
| 4 | 82 | 70 | 61 | 54 | 79 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 59 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 29 |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1534 | 1534 | 1534 |
| 5° | 1540 | 1621 | 1689 |
| 10° | 1530 | 1748 | 1859 |
| 15° | 1511 | 1844 | 1981 |
| 20° | 1487 | 1905 | 2057 |
| 25° | 1450 | 1928 | 2086 |
| 30° | 1402 | 1916 | 2055 |
| 35° | 1335 | 1866 | 1969 |
| 40° | 1262 | 1790 | 1848 |
| 45° | 1172 | 1707 | 1719 |
| 50° | 1075 | 1630 | 1591 |
| 55° | 986 | 1583 | 1503 |
| 60° | 912 | 1573 | 1460 |
| 65° | 853 | 1601 | 1472 |
| 70° | 811 | 1674 | 1529 |
| 75° | 785 | 1816 | 1659 |
| 80° | 793 | 2086 | 1750 |
| 85° | 831 | 2433 | 1905 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.5 | 3.0 |
| 10°-20° | 366.8 | 9.5 |
| 20°-30° | 578.9 | 15.1 |
| 30°-40° | 678.5 | 17.6 |
| 40°-50° | 649.1 | 16.9 |
| 50°-60° | 553.1 | 14.4 |
| 60°-70° | 443.8 | 11.5 |
| 70°-80° | 321.2 | 8.4 |
| 80°-90° | 137.2 | 3.6 |
| 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° | 1062.2 | 27.6 |
| 0°-40° | 1740.7 | 45.3 |
| 0°-60° | 2942.8 | 76.5 |
| 0°-90° | 3845.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3845.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1140 | 1140 | 1140 | 1140 | 1140 | |
| 5° | 1140 | 1161 | 1200 | 1242 | 1250 | 108 |
| 15° | 1085 | 1215 | 1324 | 1402 | 1422 | 306 |
| 25° | 977 | 1165 | 1299 | 1387 | 1405 | 449 |
| 35° | 813 | 1012 | 1136 | 1196 | 1199 | 508 |
| 45° | 616 | 796 | 897 | 909 | 904 | 475 |
| 55° | 420 | 599 | 675 | 657 | 641 | 377 |
| 65° | 268 | 450 | 503 | 470 | 462 | 267 |
| 75° | 151 | 319 | 349 | 322 | 319 | 160 |
| 85° | 54 | 160 | 158 | 130 | 123 | 58 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1139.9 | 1139.9 | 1139.9 | 1139.9 | 1139.9 |
| 2.5° | 1143.8 | 1145.1 | 1150.4 | 1172.7 | 1172.7 |
| 5° | 1139.9 | 1160.9 | 1200.3 | 1242.3 | 1250.2 |
| 7.5° | 1132.0 | 1179.3 | 1244.9 | 1298.8 | 1309.3 |
| 10° | 1120.2 | 1199.0 | 1279.1 | 1344.7 | 1360.5 |
| 12.5° | 1104.4 | 1210.8 | 1305.3 | 1380.2 | 1398.6 |
| 15° | 1084.7 | 1214.7 | 1323.7 | 1402.5 | 1422.2 |
| 17.5° | 1063.7 | 1213.4 | 1331.6 | 1415.6 | 1435.3 |
| 20° | 1038.7 | 1202.9 | 1330.3 | 1418.3 | 1436.7 |
| 22.5° | 1008.5 | 1188.5 | 1318.5 | 1407.8 | 1427.5 |
| 25° | 977.0 | 1164.8 | 1298.8 | 1386.7 | 1405.1 |
| 27.5° | 941.6 | 1137.2 | 1268.6 | 1353.9 | 1371.0 |
| 30° | 902.2 | 1101.8 | 1233.1 | 1309.3 | 1322.4 |
| 32.5° | 860.2 | 1059.8 | 1187.1 | 1256.7 | 1265.9 |
| 35° | 812.9 | 1012.5 | 1135.9 | 1196.3 | 1199.0 |
| 37.5° | 768.2 | 961.3 | 1080.8 | 1129.4 | 1128.0 |
| 40° | 718.3 | 906.1 | 1019.1 | 1058.4 | 1051.9 |
| 42.5° | 665.8 | 851.0 | 957.3 | 984.9 | 975.7 |
| 45° | 615.9 | 795.8 | 896.9 | 908.7 | 903.5 |
| 47.5° | 564.7 | 740.7 | 833.9 | 843.1 | 827.3 |
| 50° | 513.5 | 690.7 | 778.7 | 774.8 | 760.3 |
| 52.5° | 466.2 | 644.8 | 726.2 | 714.4 | 698.6 |
| 55° | 420.2 | 598.8 | 675.0 | 656.6 | 640.8 |
| 57.5° | 376.9 | 558.1 | 629.0 | 604.1 | 589.6 |
| 60° | 338.8 | 518.7 | 584.4 | 555.5 | 542.4 |
| 62.5° | 302.0 | 483.3 | 542.4 | 512.2 | 499.0 |
| 65° | 267.9 | 450.4 | 503.0 | 470.1 | 462.2 |
| 67.5° | 235.1 | 417.6 | 463.6 | 432.0 | 422.9 |
| 70° | 206.2 | 383.5 | 425.5 | 394.0 | 388.7 |
| 72.5° | 177.3 | 351.9 | 387.4 | 358.5 | 354.6 |
| 75° | 151.0 | 319.1 | 349.3 | 321.7 | 319.1 |
| 77.5° | 124.8 | 283.7 | 311.2 | 278.4 | 271.8 |
| 80° | 102.4 | 248.2 | 269.2 | 231.1 | 225.9 |
| 82.5° | 77.5 | 204.9 | 215.4 | 181.2 | 178.6 |
| 85° | 53.8 | 160.2 | 157.6 | 130.0 | 123.4 |
| 87.5° | 28.9 | 95.9 | 84.0 | 67.0 | 64.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)