

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: P183935

Luminaire Tested: **14SR-LD2-41-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183935
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-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4527.7 lumens
Efficiency: N/A
Efficacy: 133.2 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

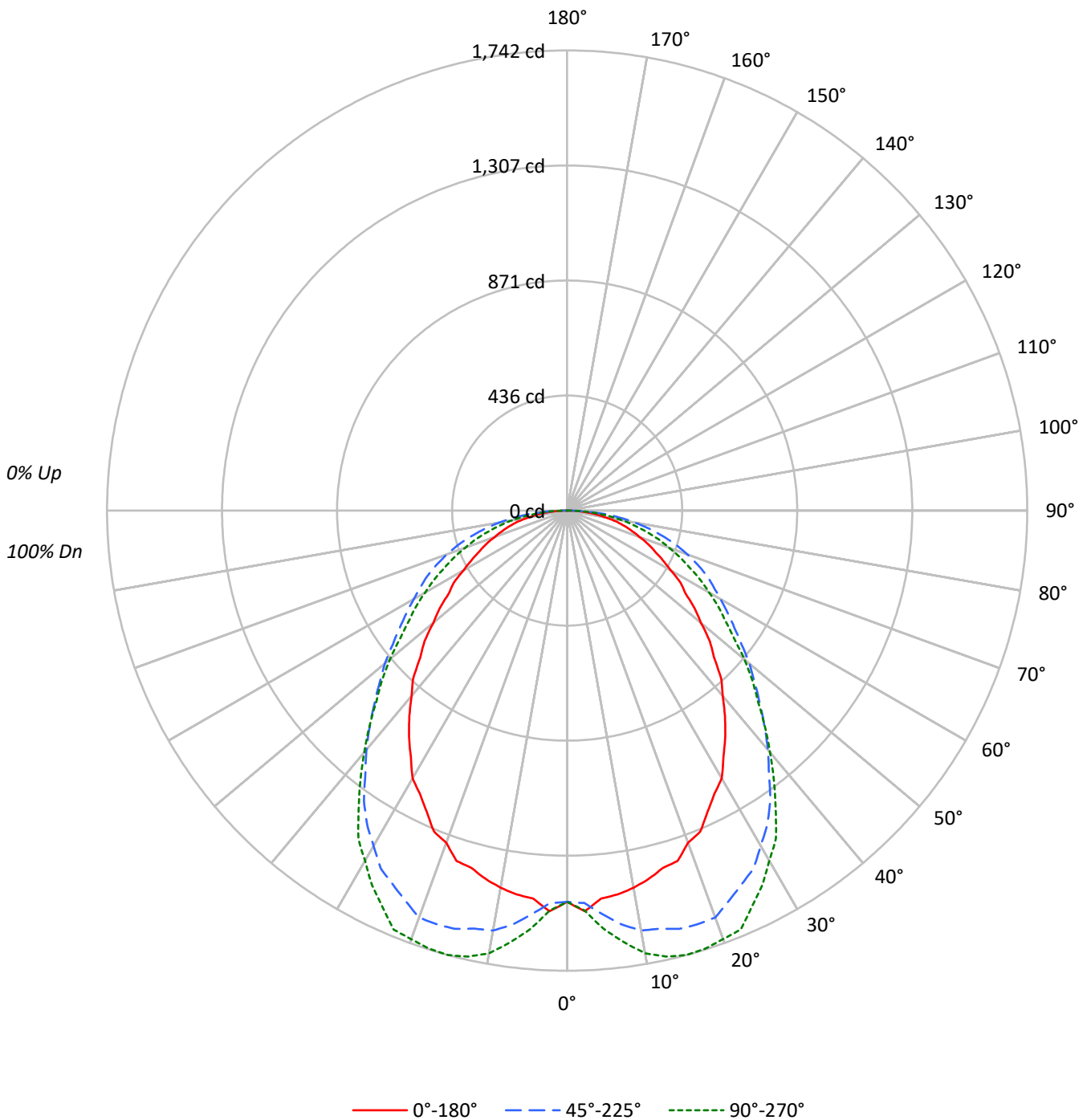
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 3985 | 3985 | 3985 |
| 5° | 3984 | 4143 | 4294 |
| 10° | 3962 | 4411 | 4649 |
| 15° | 3901 | 4567 | 4852 |
| 20° | 3832 | 4694 | 4943 |
| 25° | 3733 | 4637 | 4913 |
| 30° | 3637 | 4553 | 4756 |
| 35° | 3427 | 4406 | 4518 |
| 40° | 3217 | 4155 | 4199 |
| 45° | 2989 | 3922 | 3887 |
| 50° | 2768 | 3769 | 3665 |
| 55° | 2563 | 3627 | 3438 |
| 60° | 2440 | 3609 | 3342 |
| 65° | 2332 | 3717 | 3262 |
| 70° | 2296 | 3810 | 3224 |
| 75° | 2324 | 3906 | 3228 |
| 80° | 2261 | 4042 | 3271 |
| 85° | 2205 | 4122 | 3260 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.2 | 3.3 |
| 10°-20° | 458.3 | 10.1 |
| 20°-30° | 705.6 | 15.6 |
| 30°-40° | 807.7 | 17.8 |
| 40°-50° | 763.5 | 16.9 |
| 50°-60° | 648.5 | 14.3 |
| 60°-70° | 515.7 | 11.4 |
| 70°-80° | 349.6 | 7.7 |
| 80°-90° | 129.6 | 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° | 1313.1 | 29.0 |
| 0°-40° | 2120.8 | 46.8 |
| 0°-60° | 3532.8 | 78.0 |
| 0°-90° | 4527.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4527.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1481 | 1481 | 1481 | 1481 | 1481 | |
| 5° | 1475 | 1506 | 1534 | 1586 | 1590 | 140 |
| 15° | 1400 | 1549 | 1639 | 1736 | 1742 | 396 |
| 25° | 1257 | 1468 | 1562 | 1645 | 1655 | 580 |
| 35° | 1043 | 1254 | 1341 | 1378 | 1375 | 652 |
| 45° | 786 | 972 | 1031 | 1043 | 1021 | 611 |
| 55° | 546 | 711 | 773 | 754 | 733 | 496 |
| 65° | 366 | 525 | 584 | 534 | 512 | 366 |
| 75° | 224 | 360 | 376 | 323 | 310 | 235 |
| 85° | 71 | 152 | 134 | 109 | 106 | 79 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P183935

CATALOG NUMBER: 14SR-LD2-41-C-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1480.9 | 1480.9 | 1480.9 | 1480.9 | 1480.9 |
| 2.5° | 1518.1 | 1496.4 | 1487.1 | 1518.1 | 1515.0 |
| 5° | 1474.7 | 1505.7 | 1533.7 | 1586.4 | 1589.5 |
| 7.5° | 1465.4 | 1536.8 | 1580.2 | 1645.4 | 1648.5 |
| 10° | 1449.8 | 1543.0 | 1614.4 | 1692.0 | 1701.3 |
| 12.5° | 1428.1 | 1549.2 | 1620.6 | 1716.8 | 1729.3 |
| 15° | 1400.2 | 1549.2 | 1639.2 | 1735.5 | 1741.7 |
| 17.5° | 1390.9 | 1549.2 | 1642.3 | 1726.2 | 1738.6 |
| 20° | 1338.1 | 1533.7 | 1639.2 | 1713.7 | 1726.2 |
| 22.5° | 1316.3 | 1505.7 | 1598.9 | 1688.9 | 1716.8 |
| 25° | 1257.4 | 1468.5 | 1561.6 | 1645.4 | 1654.7 |
| 27.5° | 1207.7 | 1428.1 | 1527.5 | 1598.9 | 1598.9 |
| 30° | 1170.4 | 1378.4 | 1465.4 | 1533.7 | 1530.6 |
| 32.5° | 1102.1 | 1310.1 | 1409.5 | 1462.3 | 1471.6 |
| 35° | 1043.1 | 1254.3 | 1341.2 | 1378.4 | 1375.3 |
| 37.5° | 981.1 | 1182.8 | 1254.3 | 1297.7 | 1285.3 |
| 40° | 915.9 | 1111.4 | 1182.8 | 1210.8 | 1195.3 |
| 42.5° | 863.1 | 1036.9 | 1105.2 | 1123.9 | 1108.3 |
| 45° | 785.5 | 971.7 | 1030.7 | 1043.1 | 1021.4 |
| 47.5° | 732.7 | 900.3 | 962.4 | 962.4 | 950.0 |
| 50° | 661.3 | 832.0 | 900.3 | 881.7 | 875.5 |
| 52.5° | 608.5 | 773.0 | 832.0 | 816.5 | 797.9 |
| 55° | 546.4 | 711.0 | 773.0 | 754.4 | 732.7 |
| 57.5° | 509.2 | 661.3 | 720.3 | 698.5 | 679.9 |
| 60° | 453.3 | 611.6 | 670.6 | 642.6 | 620.9 |
| 62.5° | 409.8 | 568.1 | 624.0 | 589.9 | 568.1 |
| 65° | 366.3 | 524.7 | 583.7 | 534.0 | 512.3 |
| 67.5° | 332.2 | 484.3 | 534.0 | 481.2 | 462.6 |
| 70° | 291.8 | 437.7 | 484.3 | 428.4 | 409.8 |
| 72.5° | 257.7 | 400.5 | 431.5 | 375.7 | 363.2 |
| 75° | 223.5 | 360.1 | 375.7 | 322.9 | 310.5 |
| 77.5° | 189.4 | 319.8 | 319.8 | 273.2 | 260.8 |
| 80° | 145.9 | 273.2 | 260.8 | 220.4 | 211.1 |
| 82.5° | 111.8 | 217.3 | 198.7 | 164.5 | 158.3 |
| 85° | 71.4 | 152.1 | 133.5 | 108.7 | 105.6 |
| 87.5° | 34.2 | 80.7 | 65.2 | 52.8 | 49.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)