

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: P183995

Luminaire Tested: **12SR-LD2-12-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34460)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12SR-LD2-12-C-UNV-L850-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1393.0 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.39 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

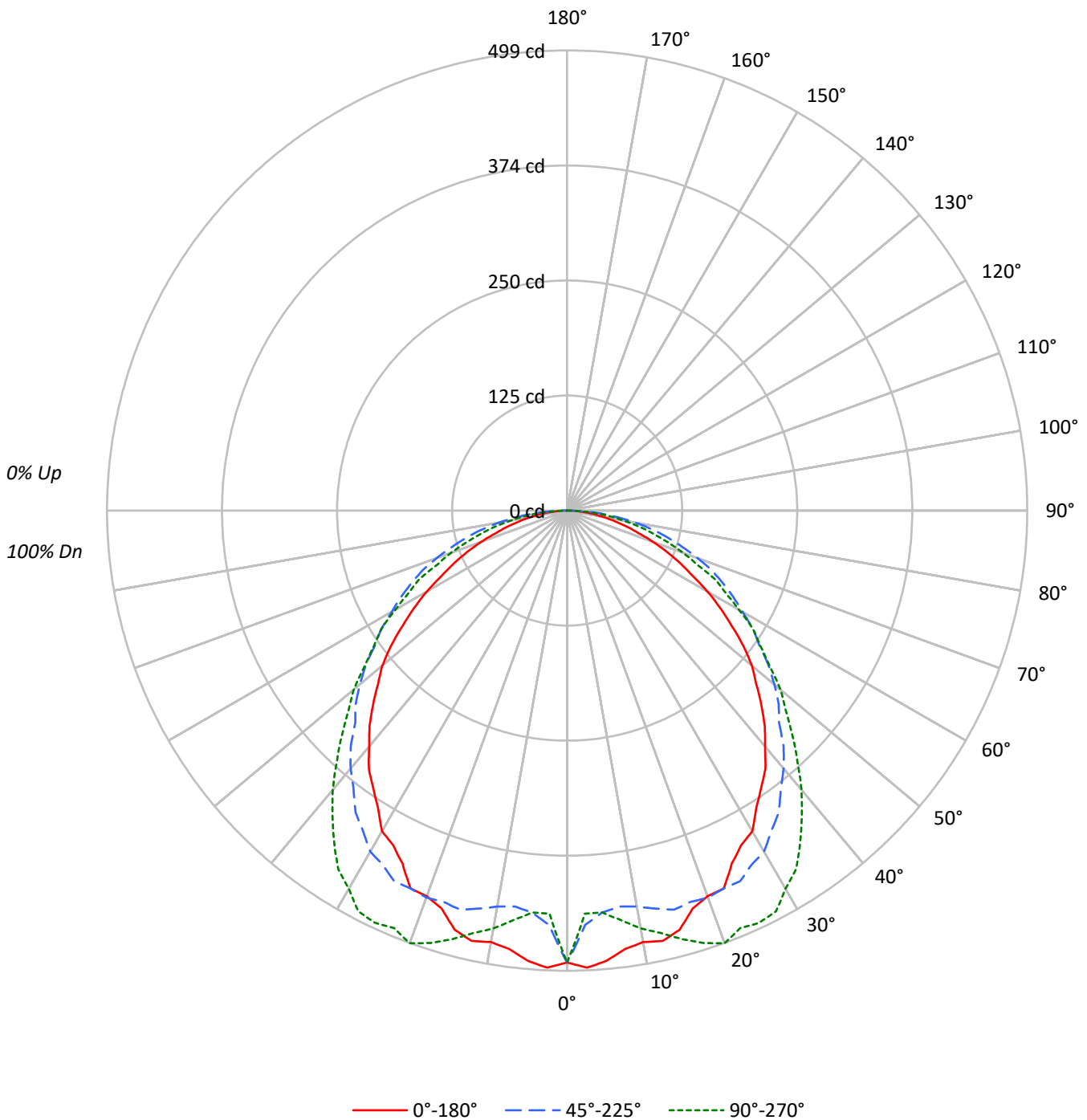
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 90  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 78  | 74  | 71  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 63  | 74  | 68  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  | 66  | 59  | 53  | 64  | 57  | 52  | 61  | 56  | 51  | 49  |
| 5   | 75  | 62  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 43  |
| 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  | 48  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 25  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2638 | 2638 | 2638 |
| 5°  | 2648 | 2364 | 2364 |
| 10° | 2596 | 2383 | 2514 |
| 15° | 2622 | 2496 | 2681 |
| 20° | 2549 | 2557 | 2859 |
| 25° | 2509 | 2634 | 2928 |
| 30° | 2495 | 2654 | 2943 |
| 35° | 2410 | 2627 | 2894 |
| 40° | 2345 | 2566 | 2778 |
| 45° | 2266 | 2471 | 2632 |
| 50° | 2190 | 2455 | 2530 |
| 55° | 2046 | 2384 | 2398 |
| 60° | 1893 | 2363 | 2314 |
| 65° | 1723 | 2374 | 2259 |
| 70° | 1561 | 2365 | 2105 |
| 75° | 1377 | 2346 | 2000 |
| 80° | 1212 | 2331 | 1909 |
| 85° | 1112 | 2229 | 1766 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 42.8   | 3.1       |
| 10°-20°   | 128.1  | 9.2       |
| 20°-30°   | 203.8  | 14.6      |
| 30°-40°   | 245.6  | 17.6      |
| 40°-50°   | 246.2  | 17.7      |
| 50°-60°   | 217.8  | 15.6      |
| 60°-70°   | 168.2  | 12.1      |
| 70°-80°   | 105.5  | 7.6       |
| 80°-90°   | 35.0   | 2.5       |
| 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°    | 374.7  | 26.9      |
| 0°-40°    | 620.3  | 44.5      |
| 0°-60°    | 1084.3 | 77.8      |
| 0°-90°    | 1393.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1393.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 490 | 490   | 490 | 490   | 490 |      |
| 5°  | 490 | 442   | 438 | 440   | 438 | 46   |
| 15° | 471 | 416   | 448 | 474   | 481 | 131  |
| 25° | 422 | 392   | 444 | 484   | 493 | 196  |
| 35° | 367 | 341   | 400 | 430   | 440 | 230  |
| 45° | 298 | 284   | 325 | 338   | 346 | 230  |
| 55° | 218 | 222   | 254 | 257   | 256 | 195  |
| 65° | 135 | 162   | 186 | 176   | 177 | 134  |
| 75° | 66  | 105   | 113 | 99    | 96  | 71   |
| 85° | 18  | 39    | 36  | 30    | 29  | 20   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 490.1 | 490.1 | 490.1 | 490.1 | 490.1 |
| 2.5°  | 496.1 | 476.6 | 449.5 | 440.5 | 437.5 |
| 5°    | 490.1 | 442.0 | 437.5 | 440.5 | 437.5 |
| 7.5°  | 479.6 | 430.0 | 433.0 | 445.0 | 448.0 |
| 10°   | 475.1 | 431.5 | 436.0 | 457.1 | 460.1 |
| 12.5° | 478.1 | 422.5 | 442.0 | 464.6 | 469.1 |
| 15°   | 470.6 | 416.5 | 448.0 | 473.6 | 481.1 |
| 17.5° | 452.5 | 413.5 | 445.0 | 478.1 | 491.6 |
| 20°   | 445.0 | 408.9 | 446.5 | 482.6 | 499.2 |
| 22.5° | 443.5 | 399.9 | 443.5 | 484.1 | 490.1 |
| 25°   | 422.5 | 392.4 | 443.5 | 484.1 | 493.1 |
| 27.5° | 408.9 | 381.9 | 433.0 | 470.6 | 490.1 |
| 30°   | 401.4 | 368.3 | 427.0 | 461.6 | 473.6 |
| 32.5° | 381.9 | 356.3 | 412.0 | 446.5 | 461.6 |
| 35°   | 366.8 | 341.3 | 399.9 | 430.0 | 440.5 |
| 37.5° | 353.3 | 327.8 | 380.4 | 408.9 | 418.0 |
| 40°   | 333.8 | 314.2 | 365.3 | 386.4 | 395.4 |
| 42.5° | 317.2 | 300.7 | 347.3 | 366.8 | 369.9 |
| 45°   | 297.7 | 284.2 | 324.7 | 338.3 | 345.8 |
| 47.5° | 278.1 | 267.6 | 311.2 | 318.7 | 321.7 |
| 50°   | 261.6 | 254.1 | 293.2 | 299.2 | 302.2 |
| 52.5° | 240.6 | 237.5 | 275.1 | 276.6 | 276.6 |
| 55°   | 218.0 | 222.5 | 254.1 | 257.1 | 255.6 |
| 57.5° | 197.0 | 207.5 | 239.1 | 236.0 | 239.1 |
| 60°   | 175.9 | 190.9 | 219.5 | 218.0 | 215.0 |
| 62.5° | 153.4 | 177.4 | 203.0 | 197.0 | 193.9 |
| 65°   | 135.3 | 162.4 | 186.4 | 175.9 | 177.4 |
| 67.5° | 117.3 | 147.3 | 169.9 | 154.9 | 151.9 |
| 70°   | 99.2  | 132.3 | 150.3 | 136.8 | 133.8 |
| 72.5° | 81.2  | 120.3 | 130.8 | 117.3 | 114.3 |
| 75°   | 66.2  | 105.2 | 112.8 | 99.2  | 96.2  |
| 77.5° | 52.6  | 90.2  | 94.7  | 82.7  | 79.7  |
| 80°   | 39.1  | 75.2  | 75.2  | 64.6  | 61.6  |
| 82.5° | 28.6  | 57.1  | 55.6  | 46.6  | 46.6  |
| 85°   | 18.0  | 39.1  | 36.1  | 30.1  | 28.6  |
| 87.5° | 9.0   | 18.0  | 16.5  | 12.0  | 12.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)