

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: P232536

Luminaire Tested: **8SKB1-LD5-12-W-UNV-L850-CD2-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SKB1-LD5-12-W-UNV-L850-CD2-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (392) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12110.0 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

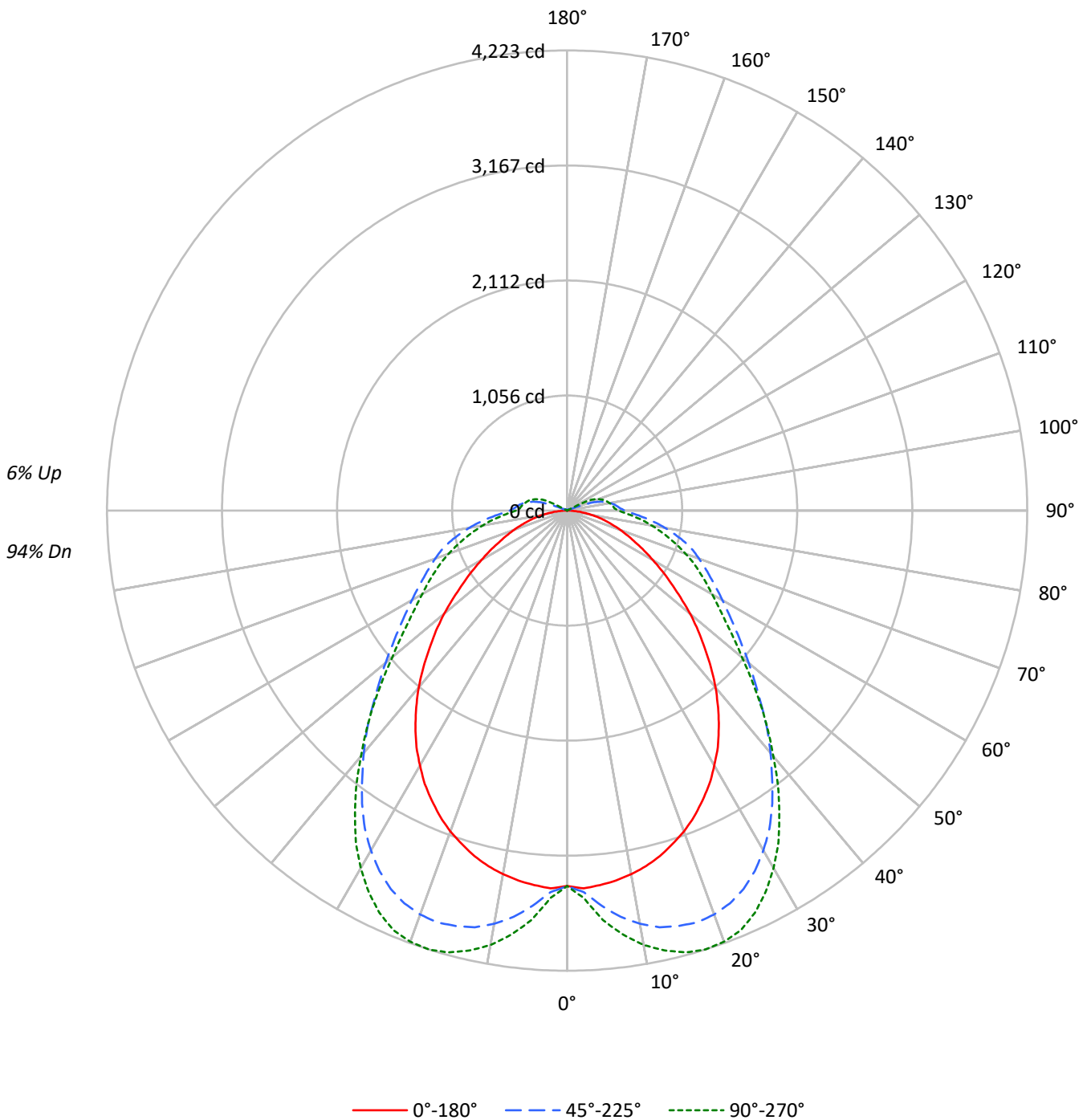
Input Watts (W): 94.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 94 |
| 1   | 106 | 101 | 96  | 91  | 103 | 98  | 93  | 89  | 92  | 89  | 85  | 87  | 84  | 82  | 83 | 80 | 78 | 76 |
| 2   | 96  | 87  | 80  | 74  | 93  | 85  | 78  | 73  | 80  | 75  | 70  | 76  | 72  | 68  | 72 | 69 | 65 | 63 |
| 3   | 88  | 77  | 68  | 62  | 85  | 75  | 67  | 61  | 71  | 64  | 59  | 67  | 62  | 57  | 64 | 59 | 55 | 53 |
| 4   | 80  | 68  | 59  | 52  | 78  | 66  | 58  | 52  | 63  | 56  | 50  | 60  | 54  | 49  | 57 | 52 | 48 | 45 |
| 5   | 74  | 61  | 52  | 45  | 71  | 59  | 51  | 45  | 57  | 49  | 44  | 54  | 48  | 43  | 52 | 46 | 42 | 39 |
| 6   | 68  | 55  | 46  | 39  | 66  | 54  | 45  | 39  | 51  | 44  | 38  | 49  | 42  | 37  | 47 | 41 | 37 | 34 |
| 7   | 63  | 50  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 39  | 34  | 45  | 38  | 33  | 43 | 37 | 33 | 31 |
| 8   | 59  | 46  | 37  | 31  | 57  | 45  | 37  | 31  | 43  | 36  | 30  | 41  | 35  | 30  | 39 | 34 | 29 | 27 |
| 9   | 55  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37 | 31 | 27 | 25 |
| 10  | 52  | 39  | 31  | 26  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 35  | 29  | 25  | 34 | 28 | 24 | 22 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 18540 | 18540 | 18540 |
| 5°  | 18581 | 18306 | 18490 |
| 10° | 18394 | 18291 | 18350 |
| 15° | 18117 | 17905 | 17818 |
| 20° | 17716 | 17249 | 16925 |
| 25° | 17147 | 16288 | 15667 |
| 30° | 16442 | 15008 | 14066 |
| 35° | 15546 | 13511 | 12275 |
| 40° | 14448 | 11898 | 10451 |
| 45° | 13110 | 10356 | 8808  |
| 50° | 11818 | 9043  | 7336  |
| 55° | 10381 | 7958  | 6245  |
| 60° | 9183  | 7159  | 5472  |
| 65° | 8146  | 6544  | 4879  |
| 70° | 7425  | 6072  | 4328  |
| 75° | 6674  | 5573  | 3746  |
| 80° | 5858  | 4845  | 3201  |
| 85° | 4306  | 4023  | 2646  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 352.0   | 2.9       |
| 10°-20°   | 1094.7  | 9.0       |
| 20°-30°   | 1704.9  | 14.1      |
| 30°-40°   | 1960.3  | 16.2      |
| 40°-50°   | 1836.5  | 15.2      |
| 50°-60°   | 1544.7  | 12.8      |
| 60°-70°   | 1265.3  | 10.4      |
| 70°-80°   | 985.2   | 8.1       |
| 80°-90°   | 634.9   | 5.2       |
| 90°-100°  | 390.8   | 3.2       |
| 100°-110° | 243.0   | 2.0       |
| 110°-120° | 79.9    | 0.7       |
| 120°-130° | 10.9    | 0.1       |
| 130°-140° | 5.1     | 0.0       |
| 140°-150° | 1.8     | 0.0       |
| 150°-160° | 0.1     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 3151.6  | 26.0      |
| 0°-40°    | 5111.9  | 42.2      |
| 0°-60°    | 8493.1  | 70.1      |
| 0°-90°    | 11378.5 | 94.0      |
| 90°-120°  | 713.7   | 5.9       |
| 90°-150°  | 731.4   | 6.0       |
| 90°-180°  | 732.0   | 6.0       |
| 0°-180°   | 12110.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3445 | 3445  | 3445 | 3445  | 3445 |      |
| 5°   | 3450 | 3522  | 3641 | 3759  | 3772 | 327  |
| 15°  | 3283 | 3652  | 3946 | 4167  | 4198 | 924  |
| 25°  | 2937 | 3472  | 3831 | 4052  | 4074 | 1351 |
| 35°  | 2426 | 2965  | 3282 | 3416  | 3395 | 1514 |
| 45°  | 1785 | 2283  | 2518 | 2561  | 2507 | 1380 |
| 55°  | 1164 | 1667  | 1879 | 1846  | 1775 | 1049 |
| 65°  | 690  | 1230  | 1451 | 1390  | 1342 | 692  |
| 75°  | 365  | 938   | 1119 | 1011  | 964  | 390  |
| 85°  | 99   | 618   | 699  | 638   | 614  | 108  |
| 90°  | 5    | 429   | 526  | 485   | 471  | 8    |
| 95°  | 0    | 325   | 460  | 438   | 424  | 0    |
| 105° | 0    | 66    | 316  | 366   | 361  | 0    |
| 115° | 0    | 45    | 30   | 147   | 224  | 0    |
| 125° | 0    | 27    | 22   | 0     | 0    | 0    |
| 135° | 0    | 13    | 13   | 0     | 0    | 0    |
| 145° | 2    | 4     | 5    | 0     | 0    | 1    |
| 155° | 0    | 0     | 0    | 0     | 0    | 0    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3444.9 | 3444.9 | 3444.9 | 3444.9 | 3444.9 |
| 2.5°   | 3470.1 | 3477.3 | 3504.2 | 3574.3 | 3559.9 |
| 5°     | 3450.3 | 3522.2 | 3640.7 | 3759.3 | 3771.8 |
| 7.5°   | 3425.2 | 3583.2 | 3761.1 | 3911.9 | 3924.5 |
| 10°    | 3387.5 | 3624.6 | 3849.1 | 4032.3 | 4048.4 |
| 12.5°  | 3342.6 | 3651.5 | 3917.3 | 4118.5 | 4134.6 |
| 15°    | 3283.3 | 3651.5 | 3946.1 | 4167.0 | 4197.5 |
| 17.5°  | 3209.7 | 3637.1 | 3962.2 | 4193.9 | 4222.7 |
| 20°    | 3134.2 | 3603.0 | 3944.3 | 4183.1 | 4210.1 |
| 22.5°  | 3042.6 | 3549.1 | 3901.2 | 4134.6 | 4167.0 |
| 25°    | 2936.6 | 3471.9 | 3831.1 | 4052.0 | 4073.6 |
| 27.5°  | 2828.9 | 3374.9 | 3728.7 | 3929.9 | 3946.1 |
| 30°    | 2701.4 | 3254.6 | 3601.2 | 3780.8 | 3788.0 |
| 32.5°  | 2573.8 | 3127.0 | 3457.5 | 3613.8 | 3608.4 |
| 35°    | 2426.5 | 2965.4 | 3281.5 | 3416.2 | 3394.7 |
| 37.5°  | 2273.9 | 2809.1 | 3089.3 | 3198.9 | 3177.3 |
| 40°    | 2119.4 | 2636.7 | 2902.5 | 2978.0 | 2943.8 |
| 42.5°  | 1952.4 | 2457.1 | 2715.7 | 2764.2 | 2722.9 |
| 45°    | 1785.3 | 2282.9 | 2518.1 | 2561.3 | 2507.4 |
| 47.5°  | 1630.9 | 2110.4 | 2338.5 | 2345.7 | 2293.6 |
| 50°    | 1472.8 | 1954.2 | 2175.1 | 2167.9 | 2094.3 |
| 52.5°  | 1311.2 | 1803.3 | 2020.6 | 2002.7 | 1927.2 |
| 55°    | 1163.9 | 1666.8 | 1878.7 | 1846.4 | 1774.6 |
| 57.5°  | 1034.6 | 1541.1 | 1756.6 | 1706.3 | 1647.0 |
| 60°    | 907.0  | 1426.1 | 1645.2 | 1589.6 | 1535.7 |
| 62.5°  | 797.5  | 1318.3 | 1542.9 | 1485.4 | 1438.7 |
| 65°    | 689.7  | 1230.3 | 1451.3 | 1390.2 | 1341.7 |
| 67.5°  | 599.9  | 1142.3 | 1368.6 | 1300.4 | 1253.7 |
| 70°    | 519.1  | 1068.7 | 1287.8 | 1208.8 | 1156.7 |
| 72.5°  | 440.0  | 1004.0 | 1210.6 | 1104.6 | 1059.7 |
| 75°    | 364.6  | 937.6  | 1119.0 | 1011.2 | 964.5  |
| 77.5°  | 300.0  | 876.5  | 1014.8 | 912.4  | 874.7  |
| 80°    | 228.1  | 813.6  | 910.6  | 819.0  | 786.7  |
| 82.5°  | 161.7  | 723.8  | 808.3  | 725.6  | 702.3  |
| 85°    | 98.8   | 617.9  | 698.7  | 637.6  | 614.3  |
| 87.5°  | 43.1   | 510.1  | 601.7  | 551.4  | 535.2  |
| 90°    | 5.4    | 429.3  | 526.3  | 485.0  | 470.6  |
| 92.5°  | 1.8    | 377.2  | 486.7  | 452.6  | 436.5  |
| 95°    | 0.0    | 325.1  | 459.8  | 438.3  | 423.9  |
| 97.5°  | 0.0    | 264.0  | 434.7  | 425.7  | 411.3  |
| 100°   | 0.0    | 170.6  | 402.3  | 407.7  | 395.1  |
| 102.5° | 0.0    | 71.8   | 364.6  | 388.0  | 377.2  |
| 105°   | 0.0    | 66.5   | 316.1  | 366.4  | 361.0  |
| 107.5° | 0.0    | 61.1   | 249.7  | 337.7  | 334.1  |
| 110°   | 0.0    | 55.7   | 129.3  | 303.5  | 305.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 50.3  | 32.3 | 258.6 | 269.4 |
| 115°   | 0.0 | 44.9  | 30.5 | 147.3 | 224.5 |
| 117.5° | 0.0 | 41.3  | 26.9 | 1.8   | 77.2  |
| 120°   | 0.0 | 35.9  | 25.1 | 1.8   | 0.0   |
| 122.5° | 0.0 | 30.5  | 23.3 | 0.0   | 0.0   |
| 125°   | 0.0 | 26.9  | 21.6 | 0.0   | 0.0   |
| 127.5° | 0.0 | 23.3  | 18.0 | 0.0   | 0.0   |
| 130°   | 0.0 | 19.8  | 16.2 | 0.0   | 0.0   |
| 132.5° | 0.0 | 16.2  | 14.4 | 0.0   | 0.0   |
| 135°   | 0.0 | 12.6  | 12.6 | 0.0   | 0.0   |
| 137.5° | 0.0 | 10.8  | 10.8 | 0.0   | 0.0   |
| 140°   | 0.0 | 7.2   | 9.0  | 0.0   | 0.0   |
| 142.5° | 1.8 | 5.4   | 7.2  | 0.0   | 0.0   |
| 145°   | 1.8 | 3.6   | 5.4  | 0.0   | 0.0   |
| 147.5° | 1.8 | 3.6   | 5.4  | 0.0   | 0.0   |
| 150°   | 1.8 | 1.8   | 3.6  | 0.0   | 0.0   |
| 152.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 155°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 157.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 160°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 162.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 165°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 167.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 170°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 172.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 175°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 177.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |
| 180°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0   |

(END OF REPORT)