

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: P232538

Luminaire Tested: **8SKB1-LD5-14-W-UNV-L840-CD2-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232538
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-LD5-14-W-UNV-L840-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (476) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13484.0 lumens
Efficiency: N/A
Efficacy: 127.9 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

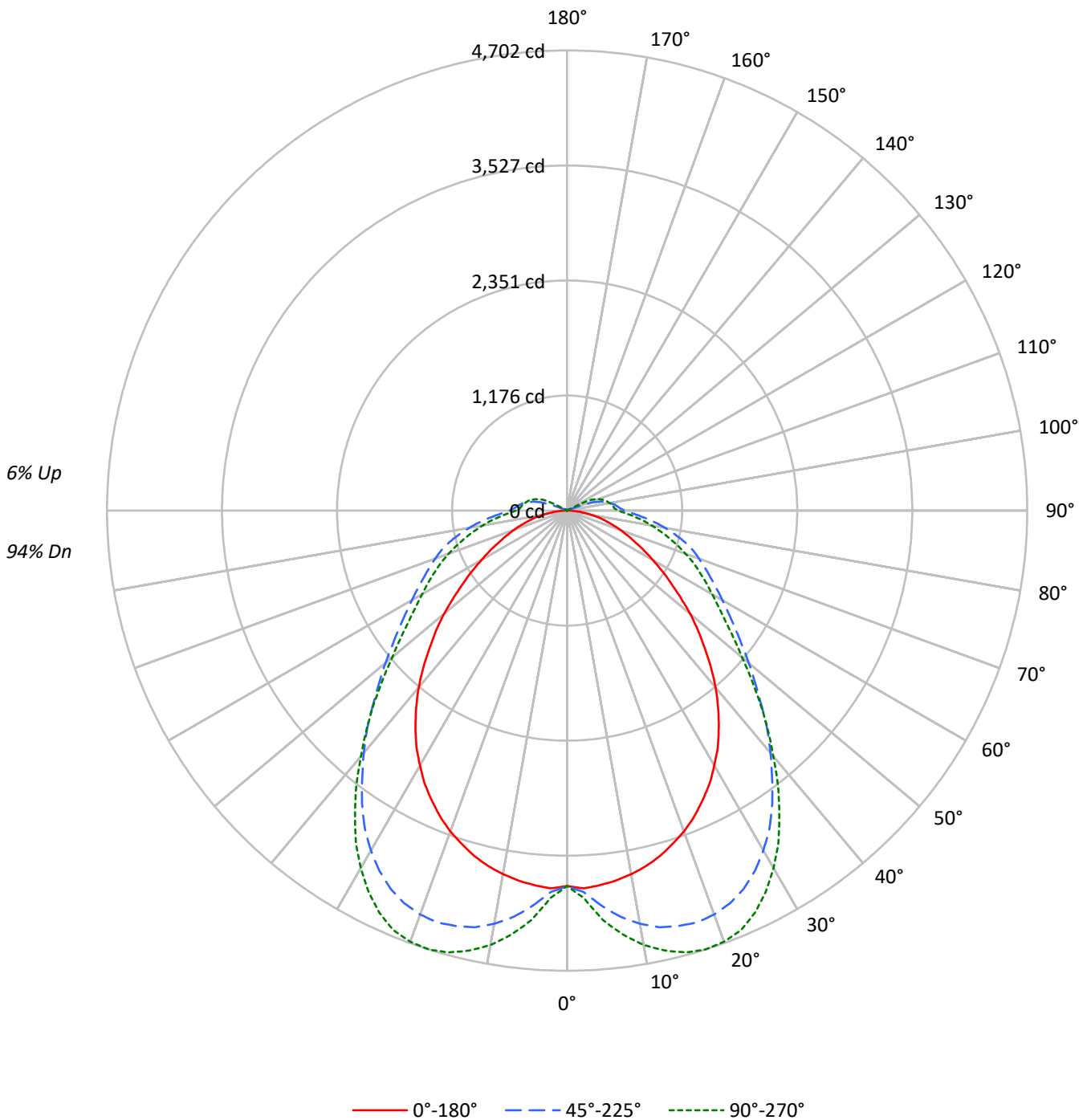
Input Watts (W): 105.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 20644 | 20644 | 20644 |
| 5° | 20689 | 20384 | 20588 |
| 10° | 20481 | 20367 | 20432 |
| 15° | 20172 | 19937 | 19839 |
| 20° | 19726 | 19206 | 18846 |
| 25° | 19093 | 18137 | 17445 |
| 30° | 18307 | 16711 | 15662 |
| 35° | 17310 | 15044 | 13668 |
| 40° | 16088 | 13248 | 11637 |
| 45° | 14598 | 11531 | 9807 |
| 50° | 13159 | 10069 | 8168 |
| 55° | 11558 | 8862 | 6954 |
| 60° | 10225 | 7972 | 6093 |
| 65° | 9071 | 7286 | 5432 |
| 70° | 8267 | 6761 | 4819 |
| 75° | 7431 | 6205 | 4171 |
| 80° | 6523 | 5395 | 3565 |
| 85° | 4795 | 4480 | 2946 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 392.0 | 2.9 |
| 10°-20° | 1218.9 | 9.0 |
| 20°-30° | 1898.4 | 14.1 |
| 30°-40° | 2182.7 | 16.2 |
| 40°-50° | 2044.9 | 15.2 |
| 50°-60° | 1720.0 | 12.8 |
| 60°-70° | 1408.9 | 10.4 |
| 70°-80° | 1096.9 | 8.1 |
| 80°-90° | 707.0 | 5.2 |
| 90°-100° | 435.2 | 3.2 |
| 100°-110° | 270.6 | 2.0 |
| 110°-120° | 89.0 | 0.7 |
| 120°-130° | 12.1 | 0.1 |
| 130°-140° | 5.6 | 0.0 |
| 140°-150° | 2.0 | 0.0 |
| 150°-160° | 0.1 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3509.2 | 26.0 |
| 0°-40° | 5691.9 | 42.2 |
| 0°-60° | 9456.8 | 70.1 |
| 0°-90° | 12669.5 | 94.0 |
| 90°-120° | 794.7 | 5.9 |
| 90°-150° | 814.4 | 6.0 |
| 90°-180° | 815.0 | 6.0 |
| 0°-180° | 13484.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3836 | 3836 | 3836 | 3836 | 3836 | |
| 5° | 3842 | 3922 | 4054 | 4186 | 4200 | 365 |
| 15° | 3656 | 4066 | 4394 | 4640 | 4674 | 1029 |
| 25° | 3270 | 3866 | 4266 | 4512 | 4536 | 1504 |
| 35° | 2702 | 3302 | 3654 | 3804 | 3780 | 1686 |
| 45° | 1988 | 2542 | 2804 | 2852 | 2792 | 1537 |
| 55° | 1296 | 1856 | 2092 | 2056 | 1976 | 1168 |
| 65° | 768 | 1370 | 1616 | 1548 | 1494 | 771 |
| 75° | 406 | 1044 | 1246 | 1126 | 1074 | 434 |
| 85° | 110 | 688 | 778 | 710 | 684 | 120 |
| 90° | 6 | 478 | 586 | 540 | 524 | 8 |
| 95° | 0 | 362 | 512 | 488 | 472 | 0 |
| 105° | 0 | 74 | 352 | 408 | 402 | 0 |
| 115° | 0 | 50 | 34 | 164 | 250 | 0 |
| 125° | 0 | 30 | 24 | 0 | 0 | 0 |
| 135° | 0 | 14 | 14 | 0 | 0 | 0 |
| 145° | 2 | 4 | 6 | 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 |



TEST NUMBER: P232538

CATALOG NUMBER: 8SKB1-LD5-14-W-UNV-L840-CD2-RS-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3835.8 | 3835.8 | 3835.8 | 3835.8 | 3835.8 |
| 2.5° | 3863.8 | 3871.8 | 3901.8 | 3979.8 | 3963.8 |
| 5° | 3841.8 | 3921.8 | 4053.8 | 4185.8 | 4199.8 |
| 7.5° | 3813.8 | 3989.8 | 4187.8 | 4355.8 | 4369.8 |
| 10° | 3771.8 | 4035.8 | 4285.8 | 4489.8 | 4507.8 |
| 12.5° | 3721.8 | 4065.8 | 4361.8 | 4585.8 | 4603.8 |
| 15° | 3655.8 | 4065.8 | 4393.8 | 4639.8 | 4673.8 |
| 17.5° | 3573.8 | 4049.8 | 4411.8 | 4669.8 | 4701.8 |
| 20° | 3489.8 | 4011.8 | 4391.8 | 4657.8 | 4687.8 |
| 22.5° | 3387.8 | 3951.8 | 4343.8 | 4603.8 | 4639.8 |
| 25° | 3269.8 | 3865.8 | 4265.8 | 4511.8 | 4535.8 |
| 27.5° | 3149.8 | 3757.8 | 4151.8 | 4375.8 | 4393.8 |
| 30° | 3007.8 | 3623.8 | 4009.8 | 4209.8 | 4217.8 |
| 32.5° | 2865.9 | 3481.8 | 3849.8 | 4023.8 | 4017.8 |
| 35° | 2701.9 | 3301.8 | 3653.8 | 3803.8 | 3779.8 |
| 37.5° | 2531.9 | 3127.8 | 3439.8 | 3561.8 | 3537.8 |
| 40° | 2359.9 | 2935.9 | 3231.8 | 3315.8 | 3277.8 |
| 42.5° | 2173.9 | 2735.9 | 3023.8 | 3077.8 | 3031.8 |
| 45° | 1987.9 | 2541.9 | 2803.9 | 2851.9 | 2791.9 |
| 47.5° | 1815.9 | 2349.9 | 2603.9 | 2611.9 | 2553.9 |
| 50° | 1639.9 | 2175.9 | 2421.9 | 2413.9 | 2331.9 |
| 52.5° | 1459.9 | 2007.9 | 2249.9 | 2229.9 | 2145.9 |
| 55° | 1295.9 | 1855.9 | 2091.9 | 2055.9 | 1975.9 |
| 57.5° | 1151.9 | 1715.9 | 1955.9 | 1899.9 | 1833.9 |
| 60° | 1009.9 | 1587.9 | 1831.9 | 1769.9 | 1709.9 |
| 62.5° | 888.0 | 1467.9 | 1717.9 | 1653.9 | 1601.9 |
| 65° | 768.0 | 1369.9 | 1615.9 | 1547.9 | 1493.9 |
| 67.5° | 668.0 | 1271.9 | 1523.9 | 1447.9 | 1395.9 |
| 70° | 578.0 | 1189.9 | 1433.9 | 1345.9 | 1287.9 |
| 72.5° | 490.0 | 1117.9 | 1347.9 | 1229.9 | 1179.9 |
| 75° | 406.0 | 1043.9 | 1245.9 | 1125.9 | 1073.9 |
| 77.5° | 334.0 | 976.0 | 1129.9 | 1015.9 | 974.0 |
| 80° | 254.0 | 906.0 | 1013.9 | 912.0 | 876.0 |
| 82.5° | 180.0 | 806.0 | 900.0 | 808.0 | 782.0 |
| 85° | 110.0 | 688.0 | 778.0 | 710.0 | 684.0 |
| 87.5° | 48.0 | 568.0 | 670.0 | 614.0 | 596.0 |
| 90° | 6.0 | 478.0 | 586.0 | 540.0 | 524.0 |
| 92.5° | 2.0 | 420.0 | 542.0 | 504.0 | 486.0 |
| 95° | 0.0 | 362.0 | 512.0 | 488.0 | 472.0 |
| 97.5° | 0.0 | 294.0 | 484.0 | 474.0 | 458.0 |
| 100° | 0.0 | 190.0 | 448.0 | 454.0 | 440.0 |
| 102.5° | 0.0 | 80.0 | 406.0 | 432.0 | 420.0 |
| 105° | 0.0 | 74.0 | 352.0 | 408.0 | 402.0 |
| 107.5° | 0.0 | 68.0 | 278.0 | 376.0 | 372.0 |
| 110° | 0.0 | 62.0 | 144.0 | 338.0 | 340.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 56.0 | 36.0 | 288.0 | 300.0 |
| 115° | 0.0 | 50.0 | 34.0 | 164.0 | 250.0 |
| 117.5° | 0.0 | 46.0 | 30.0 | 2.0 | 86.0 |
| 120° | 0.0 | 40.0 | 28.0 | 2.0 | 0.0 |
| 122.5° | 0.0 | 34.0 | 26.0 | 0.0 | 0.0 |
| 125° | 0.0 | 30.0 | 24.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 26.0 | 20.0 | 0.0 | 0.0 |
| 130° | 0.0 | 22.0 | 18.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 18.0 | 16.0 | 0.0 | 0.0 |
| 135° | 0.0 | 14.0 | 14.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 12.0 | 12.0 | 0.0 | 0.0 |
| 140° | 0.0 | 8.0 | 10.0 | 0.0 | 0.0 |
| 142.5° | 2.0 | 6.0 | 8.0 | 0.0 | 0.0 |
| 145° | 2.0 | 4.0 | 6.0 | 0.0 | 0.0 |
| 147.5° | 2.0 | 4.0 | 6.0 | 0.0 | 0.0 |
| 150° | 2.0 | 2.0 | 4.0 | 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)