

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: P232610

Luminaire Tested: **4SKB1-LD5-7-W-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232610
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: 4SKB1-LD5-7-W-UNV-L840-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (238) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6742.1 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: 4' x H: 0.29')
CIE Type: Direct

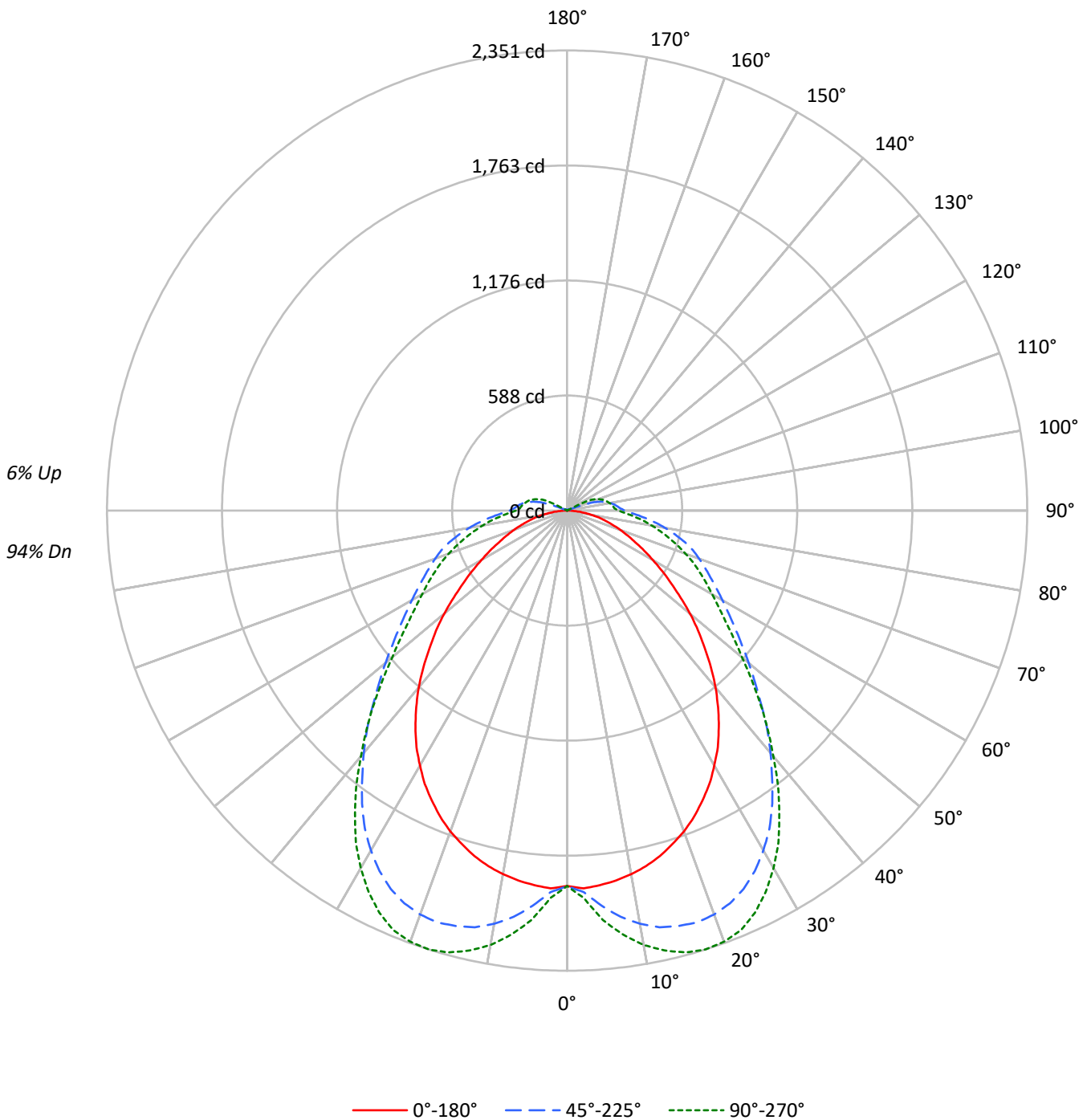
Input Watts (W): 52.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 20624 | 20341 | 20588 |
| 10° | 20351 | 20286 | 20432 |
| 15° | 19979 | 19825 | 19839 |
| 20° | 19471 | 19070 | 18846 |
| 25° | 18779 | 17982 | 17445 |
| 30° | 17937 | 16546 | 15662 |
| 35° | 16889 | 14876 | 13668 |
| 40° | 15623 | 13083 | 11637 |
| 45° | 14101 | 11372 | 9807 |
| 50° | 12634 | 9917 | 8167 |
| 55° | 11014 | 8716 | 6953 |
| 60° | 9652 | 7831 | 6093 |
| 65° | 8458 | 7146 | 5433 |
| 70° | 7577 | 6621 | 4819 |
| 75° | 6636 | 6066 | 4171 |
| 80° | 5569 | 5263 | 3565 |
| 85° | 3705 | 4360 | 2946 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 196.0 | 2.9 |
| 10°-20° | 609.5 | 9.0 |
| 20°-30° | 949.2 | 14.1 |
| 30°-40° | 1091.3 | 16.2 |
| 40°-50° | 1022.4 | 15.2 |
| 50°-60° | 860.0 | 12.8 |
| 60°-70° | 704.5 | 10.4 |
| 70°-80° | 548.5 | 8.1 |
| 80°-90° | 353.5 | 5.2 |
| 90°-100° | 217.6 | 3.2 |
| 100°-110° | 135.3 | 2.0 |
| 110°-120° | 44.5 | 0.7 |
| 120°-130° | 6.1 | 0.1 |
| 130°-140° | 2.8 | 0.0 |
| 140°-150° | 1.0 | 0.0 |
| 150°-160° | 0.1 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1754.6 | 26.0 |
| 0°-40° | 2845.9 | 42.2 |
| 0°-60° | 4728.4 | 70.1 |
| 0°-90° | 6334.8 | 94.0 |
| 90°-120° | 397.4 | 5.9 |
| 90°-150° | 407.2 | 6.0 |
| 90°-180° | 407.0 | 6.0 |
| 0°-180° | 6742.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1918 | 1918 | 1918 | 1918 | 1918 | |
| 5° | 1921 | 1961 | 2027 | 2093 | 2100 | 182 |
| 15° | 1828 | 2033 | 2197 | 2320 | 2337 | 515 |
| 25° | 1635 | 1933 | 2133 | 2256 | 2268 | 752 |
| 35° | 1351 | 1651 | 1827 | 1902 | 1890 | 843 |
| 45° | 994 | 1271 | 1402 | 1426 | 1396 | 768 |
| 55° | 648 | 928 | 1046 | 1028 | 988 | 584 |
| 65° | 384 | 685 | 808 | 774 | 747 | 385 |
| 75° | 203 | 522 | 623 | 563 | 537 | 217 |
| 85° | 55 | 344 | 389 | 355 | 342 | 60 |
| 90° | 3 | 239 | 293 | 270 | 262 | 4 |
| 95° | 0 | 181 | 256 | 244 | 236 | 0 |
| 105° | 0 | 37 | 176 | 204 | 201 | 0 |
| 115° | 0 | 25 | 17 | 82 | 125 | 0 |
| 125° | 0 | 15 | 12 | 0 | 0 | 0 |
| 135° | 0 | 7 | 7 | 0 | 0 | 0 |
| 145° | 1 | 2 | 3 | 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: P232610

CATALOG NUMBER: 4SKB1-LD5-7-W-UNV-L840-CD1-RS-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1917.9 | 1917.9 | 1917.9 | 1917.9 | 1917.9 |
| 2.5° | 1931.9 | 1935.9 | 1950.9 | 1989.9 | 1981.9 |
| 5° | 1920.9 | 1960.9 | 2026.9 | 2092.9 | 2099.9 |
| 7.5° | 1906.9 | 1994.9 | 2093.9 | 2177.9 | 2184.9 |
| 10° | 1885.9 | 2017.9 | 2142.9 | 2244.9 | 2253.9 |
| 12.5° | 1860.9 | 2032.9 | 2180.9 | 2292.9 | 2301.9 |
| 15° | 1827.9 | 2032.9 | 2196.9 | 2319.9 | 2336.9 |
| 17.5° | 1786.9 | 2024.9 | 2205.9 | 2334.9 | 2350.9 |
| 20° | 1744.9 | 2005.9 | 2195.9 | 2328.9 | 2343.9 |
| 22.5° | 1693.9 | 1975.9 | 2171.9 | 2301.9 | 2319.9 |
| 25° | 1634.9 | 1932.9 | 2132.9 | 2255.9 | 2267.9 |
| 27.5° | 1574.9 | 1878.9 | 2075.9 | 2187.9 | 2196.9 |
| 30° | 1503.9 | 1811.9 | 2004.9 | 2104.9 | 2108.9 |
| 32.5° | 1432.9 | 1740.9 | 1924.9 | 2011.9 | 2008.9 |
| 35° | 1350.9 | 1650.9 | 1826.9 | 1901.9 | 1889.9 |
| 37.5° | 1265.9 | 1563.9 | 1719.9 | 1780.9 | 1768.9 |
| 40° | 1179.9 | 1467.9 | 1615.9 | 1657.9 | 1638.9 |
| 42.5° | 1086.9 | 1367.9 | 1511.9 | 1538.9 | 1515.9 |
| 45° | 993.9 | 1270.9 | 1401.9 | 1425.9 | 1395.9 |
| 47.5° | 908.0 | 1174.9 | 1301.9 | 1305.9 | 1276.9 |
| 50° | 820.0 | 1087.9 | 1210.9 | 1206.9 | 1165.9 |
| 52.5° | 730.0 | 1003.9 | 1124.9 | 1114.9 | 1072.9 |
| 55° | 648.0 | 928.0 | 1045.9 | 1027.9 | 987.9 |
| 57.5° | 576.0 | 858.0 | 978.0 | 950.0 | 917.0 |
| 60° | 505.0 | 794.0 | 916.0 | 885.0 | 855.0 |
| 62.5° | 444.0 | 734.0 | 859.0 | 827.0 | 801.0 |
| 65° | 384.0 | 685.0 | 808.0 | 774.0 | 747.0 |
| 67.5° | 334.0 | 636.0 | 762.0 | 724.0 | 698.0 |
| 70° | 289.0 | 595.0 | 717.0 | 673.0 | 644.0 |
| 72.5° | 245.0 | 559.0 | 674.0 | 615.0 | 590.0 |
| 75° | 203.0 | 522.0 | 623.0 | 563.0 | 537.0 |
| 77.5° | 167.0 | 488.0 | 565.0 | 508.0 | 487.0 |
| 80° | 127.0 | 453.0 | 507.0 | 456.0 | 438.0 |
| 82.5° | 90.0 | 403.0 | 450.0 | 404.0 | 391.0 |
| 85° | 55.0 | 344.0 | 389.0 | 355.0 | 342.0 |
| 87.5° | 24.0 | 284.0 | 335.0 | 307.0 | 298.0 |
| 90° | 3.0 | 239.0 | 293.0 | 270.0 | 262.0 |
| 92.5° | 1.0 | 210.0 | 271.0 | 252.0 | 243.0 |
| 95° | 0.0 | 181.0 | 256.0 | 244.0 | 236.0 |
| 97.5° | 0.0 | 147.0 | 242.0 | 237.0 | 229.0 |
| 100° | 0.0 | 95.0 | 224.0 | 227.0 | 220.0 |
| 102.5° | 0.0 | 40.0 | 203.0 | 216.0 | 210.0 |
| 105° | 0.0 | 37.0 | 176.0 | 204.0 | 201.0 |
| 107.5° | 0.0 | 34.0 | 139.0 | 188.0 | 186.0 |
| 110° | 0.0 | 31.0 | 72.0 | 169.0 | 170.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 28.0 | 18.0 | 144.0 | 150.0 |
| 115° | 0.0 | 25.0 | 17.0 | 82.0 | 125.0 |
| 117.5° | 0.0 | 23.0 | 15.0 | 1.0 | 43.0 |
| 120° | 0.0 | 20.0 | 14.0 | 1.0 | 0.0 |
| 122.5° | 0.0 | 17.0 | 13.0 | 0.0 | 0.0 |
| 125° | 0.0 | 15.0 | 12.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 13.0 | 10.0 | 0.0 | 0.0 |
| 130° | 0.0 | 11.0 | 9.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 9.0 | 8.0 | 0.0 | 0.0 |
| 135° | 0.0 | 7.0 | 7.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 6.0 | 6.0 | 0.0 | 0.0 |
| 140° | 0.0 | 4.0 | 5.0 | 0.0 | 0.0 |
| 142.5° | 1.0 | 3.0 | 4.0 | 0.0 | 0.0 |
| 145° | 1.0 | 2.0 | 3.0 | 0.0 | 0.0 |
| 147.5° | 1.0 | 2.0 | 3.0 | 0.0 | 0.0 |
| 150° | 1.0 | 1.0 | 2.0 | 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)