

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: P183845

Luminaire Tested: **24SR-LD2-64-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32665)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-64-S-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7116.2 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

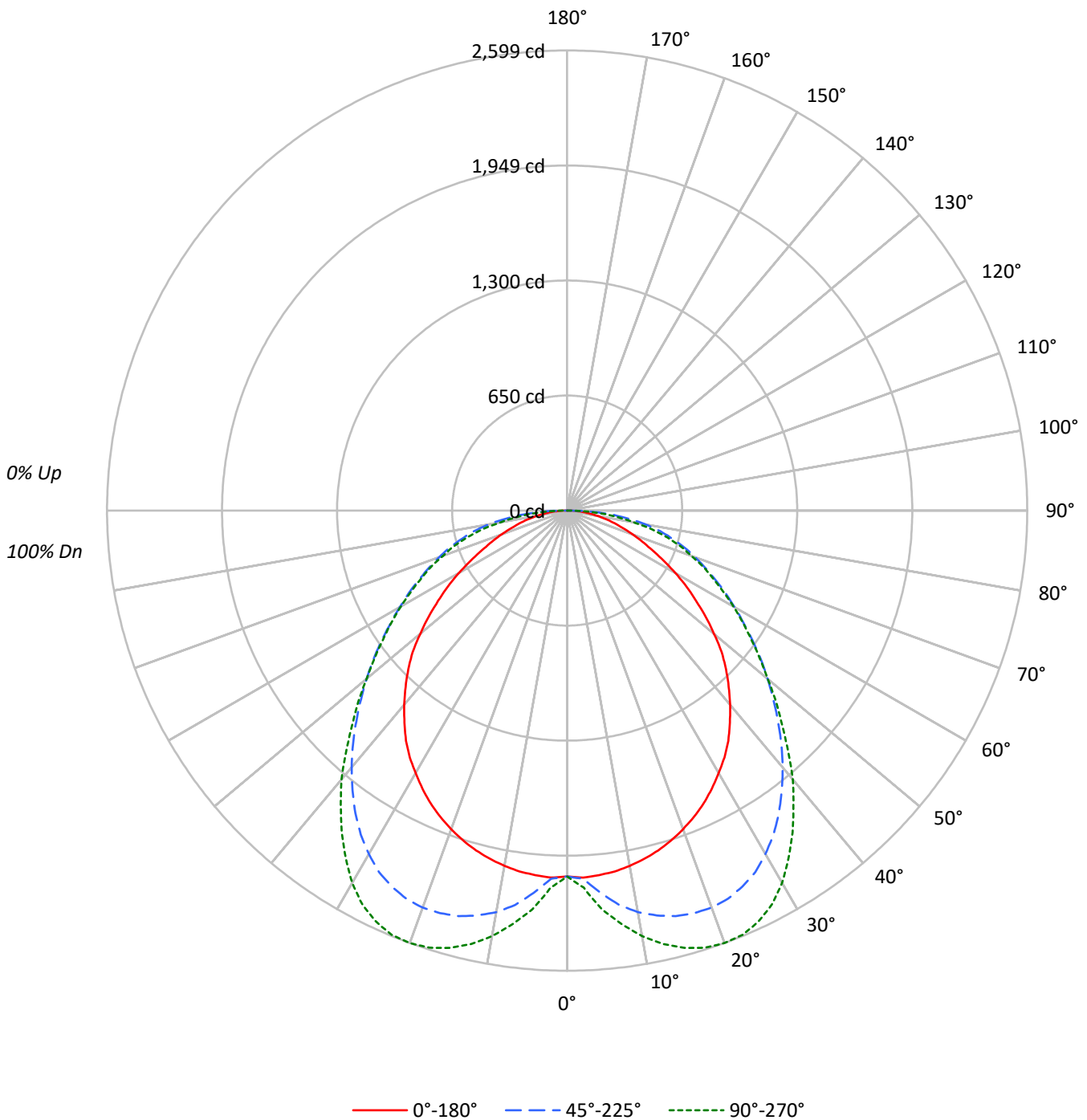
Input Watts (W): 55.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 94 | 105 | 101 | 97 | 93 | 96 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 82 |
| 2 | 98 | 90 | 82 | 77 | 95 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 78 | 74 | 71 | 68 |
| 3 | 89 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 57 |
| 4 | 82 | 70 | 61 | 54 | 79 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 46 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 42 | 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° | 2781 | 2781 | 2781 |
| 5° | 2791 | 2927 | 3054 |
| 10° | 2784 | 3146 | 3334 |
| 15° | 2768 | 3303 | 3562 |
| 20° | 2741 | 3417 | 3721 |
| 25° | 2709 | 3477 | 3799 |
| 30° | 2660 | 3480 | 3772 |
| 35° | 2606 | 3425 | 3645 |
| 40° | 2515 | 3326 | 3483 |
| 45° | 2415 | 3205 | 3269 |
| 50° | 2268 | 3094 | 3094 |
| 55° | 2086 | 2997 | 2977 |
| 60° | 1899 | 2938 | 2921 |
| 65° | 1688 | 2938 | 2898 |
| 70° | 1552 | 3022 | 2932 |
| 75° | 1443 | 3201 | 3039 |
| 80° | 1359 | 3494 | 2960 |
| 85° | 1321 | 3770 | 3094 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 210.5 | 3.0 |
| 10°-20° | 661.3 | 9.3 |
| 20°-30° | 1053.2 | 14.8 |
| 30°-40° | 1255.9 | 17.6 |
| 40°-50° | 1237.2 | 17.4 |
| 50°-60° | 1068.5 | 15.0 |
| 60°-70° | 833.9 | 11.7 |
| 70°-80° | 571.4 | 8.0 |
| 80°-90° | 224.3 | 3.2 |
| 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° | 1925.0 | 27.1 |
| 0°-40° | 3180.9 | 44.7 |
| 0°-60° | 5486.6 | 77.1 |
| 0°-90° | 7116.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7116.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2067 | 2067 | 2067 | 2067 | 2067 | |
| 5° | 2067 | 2104 | 2167 | 2248 | 2261 | 196 |
| 15° | 1987 | 2198 | 2371 | 2520 | 2557 | 560 |
| 25° | 1824 | 2113 | 2342 | 2520 | 2559 | 840 |
| 35° | 1586 | 1856 | 2085 | 2204 | 2219 | 989 |
| 45° | 1269 | 1501 | 1685 | 1733 | 1718 | 976 |
| 55° | 889 | 1127 | 1278 | 1282 | 1269 | 798 |
| 65° | 530 | 793 | 923 | 918 | 910 | 533 |
| 75° | 278 | 539 | 616 | 591 | 584 | 295 |
| 85° | 86 | 259 | 244 | 209 | 200 | 95 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P183845

CATALOG NUMBER: 24SR-LD2-64-S-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2066.7 | 2066.7 | 2066.7 | 2066.7 | 2066.7 |
| 2.5° | 2075.0 | 2077.1 | 2081.3 | 2123.0 | 2131.4 |
| 5° | 2066.7 | 2104.2 | 2166.9 | 2248.3 | 2260.8 |
| 7.5° | 2056.2 | 2139.7 | 2246.2 | 2333.9 | 2354.7 |
| 10° | 2037.4 | 2175.2 | 2302.6 | 2413.2 | 2440.3 |
| 12.5° | 2014.5 | 2194.0 | 2342.2 | 2471.6 | 2507.1 |
| 15° | 1987.3 | 2198.2 | 2371.4 | 2519.7 | 2557.2 |
| 17.5° | 1953.9 | 2191.9 | 2384.0 | 2546.8 | 2588.5 |
| 20° | 1914.3 | 2175.2 | 2386.1 | 2557.2 | 2599.0 |
| 22.5° | 1872.5 | 2150.2 | 2373.5 | 2548.9 | 2592.7 |
| 25° | 1824.5 | 2112.6 | 2342.2 | 2519.7 | 2559.3 |
| 27.5° | 1770.2 | 2060.4 | 2302.6 | 2469.6 | 2507.1 |
| 30° | 1711.8 | 1999.9 | 2239.9 | 2396.5 | 2427.8 |
| 32.5° | 1653.3 | 1933.1 | 2169.0 | 2308.8 | 2327.6 |
| 35° | 1586.5 | 1855.8 | 2085.4 | 2204.4 | 2219.1 |
| 37.5° | 1509.3 | 1778.6 | 1991.5 | 2095.9 | 2100.1 |
| 40° | 1432.1 | 1684.6 | 1893.4 | 1970.6 | 1983.2 |
| 42.5° | 1350.6 | 1592.8 | 1791.1 | 1855.8 | 1847.5 |
| 45° | 1269.2 | 1500.9 | 1684.6 | 1732.7 | 1718.0 |
| 47.5° | 1183.6 | 1407.0 | 1580.3 | 1611.6 | 1601.1 |
| 50° | 1083.4 | 1313.1 | 1478.0 | 1494.7 | 1478.0 |
| 52.5° | 987.4 | 1223.3 | 1377.8 | 1386.1 | 1371.5 |
| 55° | 889.3 | 1127.3 | 1277.6 | 1281.7 | 1269.2 |
| 57.5° | 799.5 | 1037.5 | 1181.5 | 1181.5 | 1175.3 |
| 60° | 705.6 | 947.7 | 1091.8 | 1087.6 | 1085.5 |
| 62.5° | 615.8 | 868.4 | 1008.3 | 1002.0 | 995.8 |
| 65° | 530.2 | 793.3 | 922.7 | 918.5 | 910.2 |
| 67.5° | 459.3 | 722.3 | 843.4 | 837.1 | 832.9 |
| 70° | 394.5 | 659.7 | 768.2 | 751.5 | 745.3 |
| 72.5° | 331.9 | 597.0 | 695.1 | 670.1 | 672.2 |
| 75° | 277.6 | 538.6 | 615.8 | 590.8 | 584.5 |
| 77.5° | 223.4 | 478.0 | 538.6 | 498.9 | 490.6 |
| 80° | 175.4 | 413.3 | 450.9 | 400.8 | 382.0 |
| 82.5° | 129.4 | 342.4 | 350.7 | 302.7 | 290.2 |
| 85° | 85.6 | 258.9 | 244.2 | 208.8 | 200.4 |
| 87.5° | 45.9 | 152.4 | 131.5 | 106.5 | 100.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)