

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: P#

Luminaire Tested: **8ILED-LD5-10-W-ASYWG-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34184)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-10-W-ASYWG-UNV-L840-CD1-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

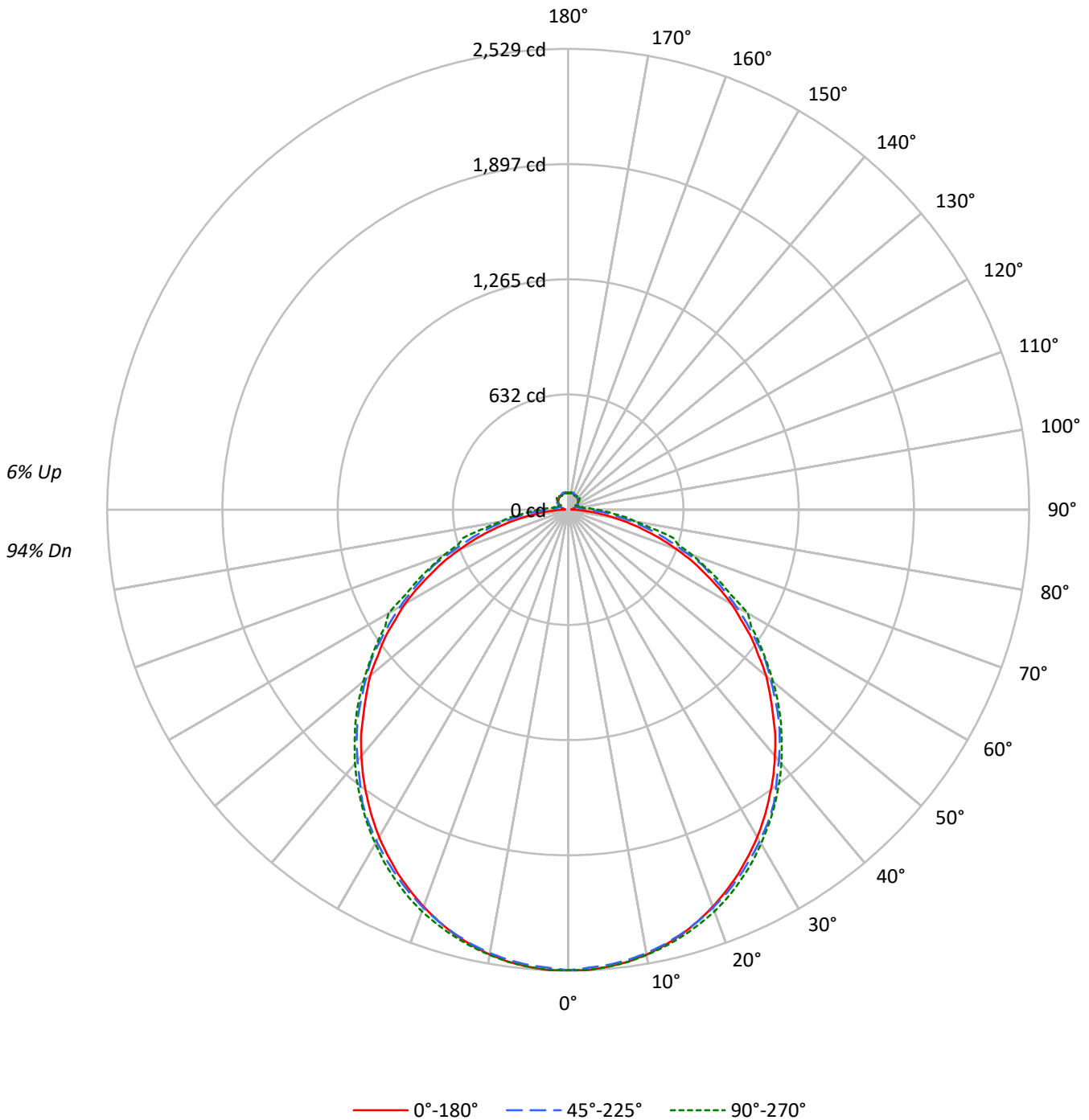
Lumens per Lamp: N/A
Luminaire Lumens: 7616.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
Input Voltage (V):
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



TEST NUMBER: P#
CATALOG NUMBER: 8ILED-LD5-10-W-ASYWG-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-10-W-ASYWG-UNV-L840-CD1-U

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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 | | | | |
| 1 | 107 | 102 | 98 | 94 | 104 | 99 | 95 | 91 | 94 | 91 | 87 | 89 | 86 | 84 | 84 | 82 | 80 | 78 | | | | |
| 2 | 97 | 89 | 82 | 76 | 94 | 86 | 80 | 75 | 82 | 76 | 72 | 78 | 73 | 69 | 74 | 70 | 67 | 65 | | | | |
| 3 | 88 | 78 | 70 | 63 | 85 | 76 | 68 | 62 | 72 | 66 | 60 | 68 | 63 | 58 | 65 | 61 | 57 | 54 | | | | |
| 4 | 81 | 69 | 60 | 53 | 78 | 67 | 59 | 53 | 64 | 57 | 51 | 61 | 55 | 50 | 58 | 53 | 49 | 46 | | | | |
| 5 | 74 | 62 | 52 | 46 | 72 | 60 | 52 | 45 | 57 | 50 | 44 | 55 | 48 | 43 | 52 | 47 | 42 | 40 | | | | |
| 6 | 69 | 55 | 46 | 40 | 66 | 54 | 46 | 40 | 52 | 44 | 39 | 49 | 43 | 38 | 47 | 42 | 37 | 35 | | | | |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 47 | 40 | 34 | 45 | 39 | 34 | 43 | 37 | 33 | 31 | | | | |
| 8 | 59 | 46 | 37 | 31 | 57 | 45 | 37 | 31 | 43 | 36 | 31 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | |
| 9 | 55 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 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° | 3710 | 3710 | 3710 |
| 5° | 3706 | 3668 | 3675 |
| 10° | 3686 | 3627 | 3629 |
| 15° | 3653 | 3576 | 3577 |
| 20° | 3605 | 3520 | 3525 |
| 25° | 3551 | 3458 | 3455 |
| 30° | 3491 | 3393 | 3375 |
| 35° | 3418 | 3325 | 3289 |
| 40° | 3345 | 3212 | 3194 |
| 45° | 3256 | 3124 | 3088 |
| 50° | 3191 | 3004 | 2965 |
| 55° | 3090 | 2874 | 2838 |
| 60° | 2975 | 2720 | 2811 |
| 65° | 2799 | 2562 | 2553 |
| 70° | 2607 | 2380 | 2383 |
| 75° | 2355 | 2172 | 2409 |
| 80° | 2046 | 1963 | 1972 |
| 85° | 1703 | 1799 | 1848 |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-10-W-ASYWG-UNV-L840-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 238.9 | 3.1 |
| 10°-20° | 681.2 | 8.9 |
| 20°-30° | 1024.9 | 13.5 |
| 30°-40° | 1224.9 | 16.1 |
| 40°-50° | 1256.6 | 16.5 |
| 50°-60° | 1127.6 | 14.8 |
| 60°-70° | 866.4 | 11.4 |
| 70°-80° | 530.1 | 7.0 |
| 80°-90° | 224.8 | 3.0 |
| 90°-100° | 79.1 | 1.0 |
| 100°-110° | 55.3 | 0.7 |
| 110°-120° | 51.6 | 0.7 |
| 120°-130° | 60.2 | 0.8 |
| 130°-140° | 63.7 | 0.8 |
| 140°-150° | 53.9 | 0.7 |
| 150°-160° | 41.1 | 0.5 |
| 160°-170° | 26.7 | 0.4 |
| 170°-180° | 9.0 | 0.1 |
| 0°-30° | 1944.9 | 25.5 |
| 0°-40° | 3169.8 | 41.6 |
| 0°-60° | 5554.1 | 72.9 |
| 0°-90° | 7175.4 | 94.2 |
| 90°-120° | 186.1 | 2.4 |
| 90°-150° | 363.8 | 4.8 |
| 90°-180° | 441.0 | 5.8 |
| 0°-180° | 7616.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2528 | 2528 | 2528 | 2528 | 2528 | |
| 5° | 2518 | 2518 | 2508 | 2518 | 2518 | 239 |
| 15° | 2412 | 2413 | 2408 | 2420 | 2423 | 680 |
| 25° | 2206 | 2210 | 2221 | 2240 | 2242 | 1016 |
| 35° | 1924 | 1949 | 1967 | 1972 | 1976 | 1204 |
| 45° | 1588 | 1616 | 1634 | 1647 | 1650 | 1228 |
| 55° | 1229 | 1240 | 1261 | 1279 | 1282 | 1095 |
| 65° | 828 | 843 | 874 | 902 | 907 | 822 |
| 75° | 435 | 458 | 506 | 535 | 598 | 463 |
| 85° | 116 | 157 | 212 | 240 | 247 | 124 |
| 90° | 22 | 63 | 120 | 152 | 159 | 17 |
| 95° | 18 | 43 | 74 | 99 | 103 | 17 |
| 105° | 35 | 33 | 50 | 79 | 74 | 36 |
| 115° | 52 | 57 | 43 | 50 | 53 | 52 |
| 125° | 66 | 66 | 78 | 67 | 56 | 59 |
| 135° | 77 | 75 | 82 | 92 | 89 | 59 |
| 145° | 84 | 86 | 82 | 86 | 91 | 53 |
| 155° | 89 | 95 | 89 | 85 | 85 | 41 |
| 165° | 92 | 95 | 98 | 95 | 92 | 26 |
| 175° | 93 | 93 | 93 | 93 | 91 | 9 |
| 180° | 92 | 92 | 92 | 92 | 92 | |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-10-W-ASYWG-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2527.5 | 2527.5 | 2527.5 | 2527.5 | 2527.5 |
| 2.5° | 2528.9 | 2527.5 | 2516.3 | 2524.7 | 2527.5 |
| 5° | 2517.7 | 2517.7 | 2508.0 | 2517.7 | 2517.7 |
| 7.5° | 2502.4 | 2501.0 | 2492.7 | 2501.0 | 2503.8 |
| 10° | 2478.7 | 2478.7 | 2470.4 | 2480.1 | 2481.5 |
| 12.5° | 2448.1 | 2449.5 | 2442.5 | 2452.3 | 2455.0 |
| 15° | 2411.8 | 2413.2 | 2407.7 | 2420.2 | 2423.0 |
| 17.5° | 2367.3 | 2370.0 | 2368.7 | 2382.6 | 2386.8 |
| 20° | 2318.5 | 2326.9 | 2324.1 | 2342.2 | 2346.4 |
| 22.5° | 2264.2 | 2269.7 | 2275.3 | 2294.8 | 2297.6 |
| 25° | 2205.6 | 2209.8 | 2221.0 | 2240.5 | 2241.9 |
| 27.5° | 2141.5 | 2152.7 | 2162.4 | 2177.8 | 2183.3 |
| 30° | 2074.7 | 2090.0 | 2101.1 | 2115.1 | 2116.5 |
| 32.5° | 2002.2 | 2023.1 | 2037.0 | 2044.0 | 2048.2 |
| 35° | 1924.2 | 1949.3 | 1967.4 | 1971.6 | 1975.7 |
| 37.5° | 1847.5 | 1874.0 | 1878.2 | 1897.7 | 1899.1 |
| 40° | 1763.9 | 1794.6 | 1797.4 | 1815.5 | 1819.7 |
| 42.5° | 1681.7 | 1698.5 | 1718.0 | 1734.7 | 1733.3 |
| 45° | 1588.4 | 1616.3 | 1634.4 | 1646.9 | 1649.7 |
| 47.5° | 1502.0 | 1534.1 | 1539.6 | 1555.0 | 1560.5 |
| 50° | 1418.4 | 1443.5 | 1450.5 | 1470.0 | 1467.2 |
| 52.5° | 1316.7 | 1344.6 | 1365.5 | 1372.4 | 1372.4 |
| 55° | 1228.9 | 1240.1 | 1261.0 | 1279.1 | 1281.9 |
| 57.5° | 1124.4 | 1142.5 | 1162.0 | 1187.1 | 1189.9 |
| 60° | 1035.2 | 1049.2 | 1064.5 | 1106.3 | 1138.3 |
| 62.5° | 930.7 | 944.7 | 967.0 | 1001.8 | 1001.8 |
| 65° | 827.6 | 843.0 | 873.6 | 901.5 | 907.1 |
| 67.5° | 734.3 | 748.2 | 799.8 | 806.7 | 810.9 |
| 70° | 628.4 | 646.5 | 685.5 | 712.0 | 721.7 |
| 72.5° | 532.3 | 549.0 | 590.8 | 624.2 | 629.8 |
| 75° | 434.7 | 458.4 | 505.8 | 535.0 | 597.7 |
| 77.5° | 345.5 | 374.8 | 419.4 | 454.2 | 466.8 |
| 80° | 259.2 | 291.2 | 345.5 | 372.0 | 377.6 |
| 82.5° | 179.7 | 221.5 | 268.9 | 307.9 | 317.7 |
| 85° | 115.6 | 157.4 | 211.8 | 239.7 | 246.6 |
| 87.5° | 61.3 | 105.9 | 158.8 | 192.3 | 200.6 |
| 90° | 22.3 | 62.7 | 119.8 | 151.9 | 158.8 |
| 92.5° | 19.5 | 44.6 | 90.6 | 118.4 | 125.4 |
| 95° | 18.1 | 43.2 | 73.8 | 98.9 | 103.1 |
| 97.5° | 20.9 | 37.6 | 65.5 | 78.0 | 82.2 |
| 100° | 25.1 | 33.4 | 62.7 | 75.2 | 79.4 |
| 102.5° | 29.3 | 30.7 | 57.1 | 68.3 | 68.3 |
| 105° | 34.8 | 33.4 | 50.2 | 79.4 | 73.8 |
| 107.5° | 39.0 | 44.6 | 48.8 | 58.5 | 64.1 |
| 110° | 44.6 | 48.8 | 43.2 | 55.7 | 57.1 |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-10-W-ASYWG-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 48.8 | 54.3 | 43.2 | 54.3 | 54.3 |
| 115° | 51.6 | 57.1 | 43.2 | 50.2 | 52.9 |
| 117.5° | 55.7 | 58.5 | 54.3 | 48.8 | 48.8 |
| 120° | 59.9 | 59.9 | 66.9 | 47.4 | 47.4 |
| 122.5° | 62.7 | 62.7 | 71.1 | 52.9 | 47.4 |
| 125° | 65.5 | 65.5 | 78.0 | 66.9 | 55.7 |
| 127.5° | 68.3 | 68.3 | 80.8 | 76.6 | 69.7 |
| 130° | 71.1 | 69.7 | 83.6 | 82.2 | 78.0 |
| 132.5° | 73.8 | 72.5 | 83.6 | 86.4 | 83.6 |
| 135° | 76.6 | 75.2 | 82.2 | 92.0 | 89.2 |
| 137.5° | 78.0 | 78.0 | 80.8 | 93.4 | 93.4 |
| 140° | 80.8 | 80.8 | 80.8 | 92.0 | 96.1 |
| 142.5° | 82.2 | 83.6 | 82.2 | 89.2 | 93.4 |
| 145° | 83.6 | 86.4 | 82.2 | 86.4 | 90.6 |
| 147.5° | 85.0 | 89.2 | 82.2 | 86.4 | 86.4 |
| 150° | 87.8 | 90.6 | 83.6 | 85.0 | 86.4 |
| 152.5° | 87.8 | 93.4 | 86.4 | 85.0 | 85.0 |
| 155° | 89.2 | 94.7 | 89.2 | 85.0 | 85.0 |
| 157.5° | 90.6 | 94.7 | 90.6 | 86.4 | 85.0 |
| 160° | 90.6 | 96.1 | 93.4 | 89.2 | 86.4 |
| 162.5° | 92.0 | 96.1 | 96.1 | 92.0 | 89.2 |
| 165° | 92.0 | 94.7 | 97.5 | 94.7 | 92.0 |
| 167.5° | 92.0 | 94.7 | 97.5 | 96.1 | 93.4 |
| 170° | 93.4 | 94.7 | 96.1 | 96.1 | 93.4 |
| 172.5° | 93.4 | 93.4 | 94.7 | 94.7 | 93.4 |
| 175° | 93.4 | 93.4 | 93.4 | 93.4 | 90.6 |
| 177.5° | 93.4 | 93.4 | 93.4 | 92.0 | 89.2 |
| 180° | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 |

(END OF REPORT)