

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-LD5-22-W-ASYWG-UNV-L835-CD2-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-LD5-22-W-ASYWG-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

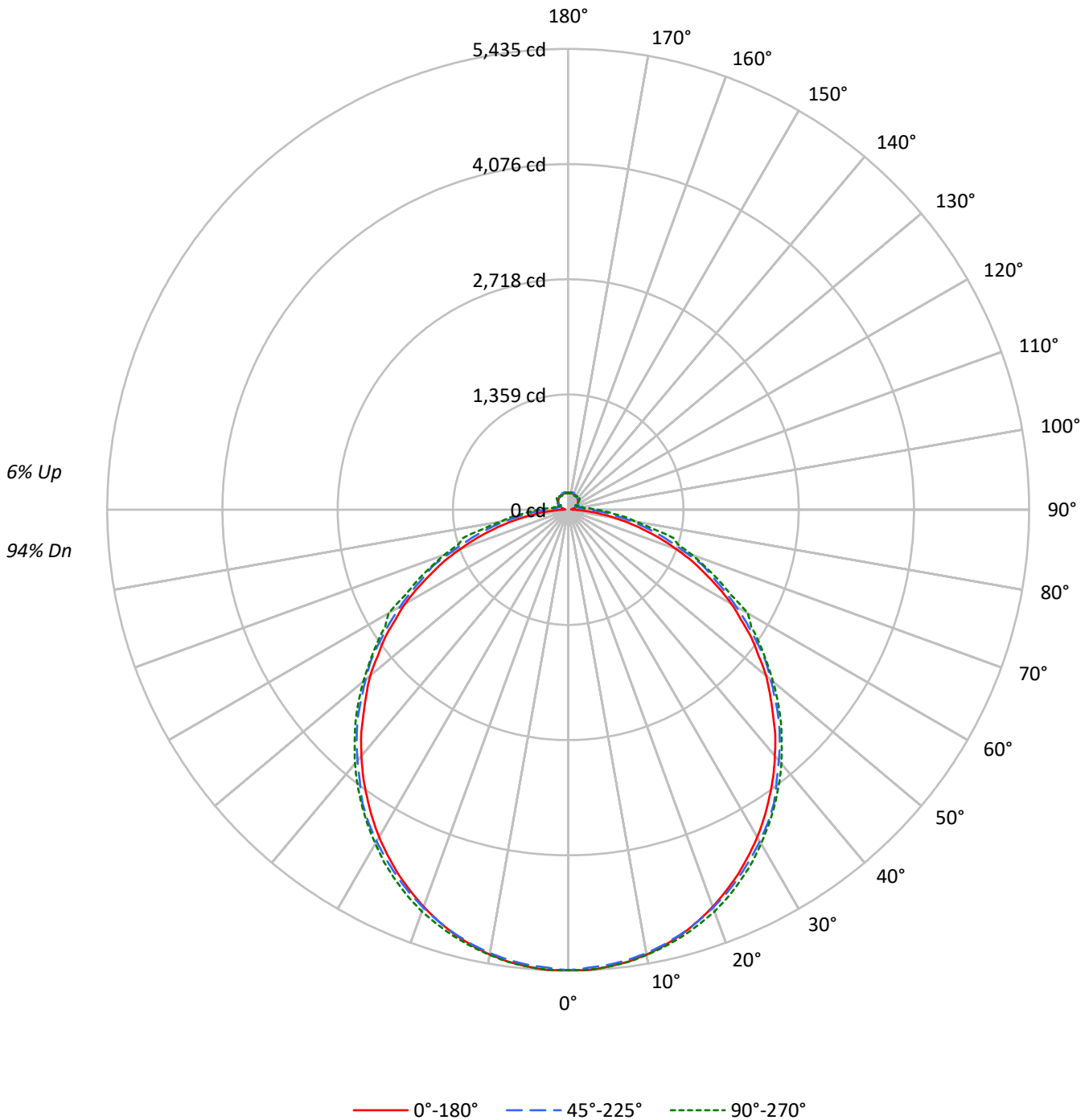
Lumens per Lamp: N/A
Luminaire Lumens: 16368.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
Input Voltage (V):
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



TEST NUMBER: P#
CATALOG NUMBER: 8ILED-LD5-22-W-ASYWG-UNV-L835-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-ASYWG-UNV-L835-CD2-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° | 7973 | 7973 | 7973 |
| 5° | 7964 | 7883 | 7897 |
| 10° | 7922 | 7795 | 7799 |
| 15° | 7850 | 7686 | 7688 |
| 20° | 7748 | 7565 | 7576 |
| 25° | 7633 | 7432 | 7425 |
| 30° | 7503 | 7292 | 7253 |
| 35° | 7346 | 7146 | 7069 |
| 40° | 7188 | 6904 | 6865 |
| 45° | 6999 | 6714 | 6636 |
| 50° | 6859 | 6457 | 6372 |
| 55° | 6640 | 6177 | 6100 |
| 60° | 6393 | 5846 | 6041 |
| 65° | 6016 | 5506 | 5487 |
| 70° | 5603 | 5115 | 5122 |
| 75° | 5062 | 4667 | 5177 |
| 80° | 4397 | 4220 | 4238 |
| 85° | 3662 | 3866 | 3972 |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-ASYWG-UNV-L835-CD2-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 513.4 | 3.1 |
| 10°-20° | 1464.0 | 8.9 |
| 20°-30° | 2202.6 | 13.5 |
| 30°-40° | 2632.5 | 16.1 |
| 40°-50° | 2700.7 | 16.5 |
| 50°-60° | 2423.4 | 14.8 |
| 60°-70° | 1862.1 | 11.4 |
| 70°-80° | 1139.3 | 7.0 |
| 80°-90° | 483.2 | 3.0 |
| 90°-100° | 170.1 | 1.0 |
| 100°-110° | 118.9 | 0.7 |
| 110°-120° | 111.0 | 0.7 |
| 120°-130° | 129.3 | 0.8 |
| 130°-140° | 136.9 | 0.8 |
| 140°-150° | 115.8 | 0.7 |
| 150°-160° | 88.4 | 0.5 |
| 160°-170° | 57.3 | 0.4 |
| 170°-180° | 19.2 | 0.1 |
| 0°-30° | 4180.0 | 25.5 |
| 0°-40° | 6812.5 | 41.6 |
| 0°-60° | 11936.6 | 72.9 |
| 0°-90° | 15421.1 | 94.2 |
| 90°-120° | 400.0 | 2.4 |
| 90°-150° | 781.9 | 4.8 |
| 90°-180° | 947.0 | 5.8 |
| 0°-180° | 16368.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 5432 | 5432 | 5432 | 5432 | 5432 | |
| 5° | 5411 | 5411 | 5390 | 5411 | 5411 | 514 |
| 15° | 5183 | 5186 | 5174 | 5201 | 5207 | 1461 |
| 25° | 4740 | 4749 | 4773 | 4815 | 4818 | 2183 |
| 35° | 4135 | 4189 | 4228 | 4237 | 4246 | 2589 |
| 45° | 3414 | 3474 | 3512 | 3540 | 3546 | 2640 |
| 55° | 2641 | 2665 | 2710 | 2749 | 2755 | 2353 |
| 65° | 1779 | 1812 | 1878 | 1937 | 1949 | 1768 |
| 75° | 934 | 985 | 1087 | 1150 | 1285 | 995 |
| 85° | 248 | 338 | 455 | 515 | 530 | 266 |
| 90° | 48 | 135 | 258 | 326 | 341 | 37 |
| 95° | 39 | 93 | 159 | 213 | 222 | 36 |
| 105° | 75 | 72 | 108 | 171 | 159 | 78 |
| 115° | 111 | 123 | 93 | 108 | 114 | 111 |
| 125° | 141 | 141 | 168 | 144 | 120 | 126 |
| 135° | 165 | 162 | 177 | 198 | 192 | 126 |
| 145° | 180 | 186 | 177 | 186 | 195 | 113 |
| 155° | 192 | 204 | 192 | 183 | 183 | 89 |
| 165° | 198 | 204 | 210 | 204 | 198 | 56 |
| 175° | 201 | 201 | 201 | 201 | 195 | 19 |
| 180° | 198 | 198 | 198 | 198 | 198 | |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-ASYWG-UNV-L835-CD2-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 5432.0 | 5432.0 | 5432.0 | 5432.0 | 5432.0 |
| 2.5° | 5435.0 | 5432.0 | 5408.0 | 5426.0 | 5432.0 |
| 5° | 5411.0 | 5411.0 | 5390.1 | 5411.0 | 5411.0 |
| 7.5° | 5378.1 | 5375.1 | 5357.1 | 5375.1 | 5381.1 |
| 10° | 5327.2 | 5327.2 | 5309.2 | 5330.2 | 5333.2 |
| 12.5° | 5261.3 | 5264.3 | 5249.3 | 5270.3 | 5276.3 |
| 15° | 5183.4 | 5186.4 | 5174.5 | 5201.4 | 5207.4 |
| 17.5° | 5087.6 | 5093.6 | 5090.6 | 5120.6 | 5129.5 |
| 20° | 4982.8 | 5000.8 | 4994.8 | 5033.7 | 5042.7 |
| 22.5° | 4866.0 | 4878.0 | 4890.0 | 4931.9 | 4937.9 |
| 25° | 4740.3 | 4749.2 | 4773.2 | 4815.1 | 4818.1 |
| 27.5° | 4602.5 | 4626.5 | 4647.4 | 4680.4 | 4692.3 |
| 30° | 4458.8 | 4491.7 | 4515.7 | 4545.6 | 4548.6 |
| 32.5° | 4303.1 | 4348.0 | 4377.9 | 4392.9 | 4401.9 |
| 35° | 4135.4 | 4189.3 | 4228.2 | 4237.2 | 4246.2 |
| 37.5° | 3970.7 | 4027.6 | 4036.6 | 4078.5 | 4081.5 |
| 40° | 3791.0 | 3856.9 | 3862.9 | 3901.8 | 3910.8 |
| 42.5° | 3614.3 | 3650.3 | 3692.2 | 3728.1 | 3725.1 |
| 45° | 3413.7 | 3473.6 | 3512.5 | 3539.5 | 3545.5 |
| 47.5° | 3228.0 | 3296.9 | 3308.9 | 3341.8 | 3353.8 |
| 50° | 3048.4 | 3102.3 | 3117.3 | 3159.2 | 3153.2 |
| 52.5° | 2829.8 | 2889.7 | 2934.6 | 2949.6 | 2949.6 |
| 55° | 2641.1 | 2665.1 | 2710.0 | 2748.9 | 2754.9 |
| 57.5° | 2416.5 | 2455.5 | 2497.4 | 2551.3 | 2557.3 |
| 60° | 2224.9 | 2254.8 | 2287.8 | 2377.6 | 2446.5 |
| 62.5° | 2000.3 | 2030.3 | 2078.2 | 2153.0 | 2153.0 |
| 65° | 1778.7 | 1811.7 | 1877.5 | 1937.4 | 1949.4 |
| 67.5° | 1578.1 | 1608.0 | 1718.8 | 1733.8 | 1742.8 |
| 70° | 1350.5 | 1389.4 | 1473.3 | 1530.2 | 1551.1 |
| 72.5° | 1143.9 | 1179.8 | 1269.7 | 1341.5 | 1353.5 |
| 75° | 934.3 | 985.2 | 1087.0 | 1149.9 | 1284.6 |
| 77.5° | 742.6 | 805.5 | 901.3 | 976.2 | 1003.2 |
| 80° | 557.0 | 625.8 | 742.6 | 799.5 | 811.5 |
| 82.5° | 386.3 | 476.1 | 577.9 | 661.8 | 682.7 |
| 85° | 248.5 | 338.4 | 455.2 | 515.1 | 530.0 |
| 87.5° | 131.8 | 227.6 | 341.4 | 413.2 | 431.2 |
| 90° | 47.9 | 134.8 | 257.5 | 326.4 | 341.4 |
| 92.5° | 41.9 | 95.8 | 194.6 | 254.5 | 269.5 |
| 95° | 38.9 | 92.8 | 158.7 | 212.6 | 221.6 |
| 97.5° | 44.9 | 80.9 | 140.7 | 167.7 | 176.7 |
| 100° | 53.9 | 71.9 | 134.8 | 161.7 | 170.7 |
| 102.5° | 62.9 | 65.9 | 122.8 | 146.7 | 146.7 |
| 105° | 74.9 | 71.9 | 107.8 | 170.7 | 158.7 |
| 107.5° | 83.8 | 95.8 | 104.8 | 125.8 | 137.7 |
| 110° | 95.8 | 104.8 | 92.8 | 119.8 | 122.8 |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-ASYWG-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 104.8 | 116.8 | 92.8 | 116.8 | 116.8 |
| 115° | 110.8 | 122.8 | 92.8 | 107.8 | 113.8 |
| 117.5° | 119.8 | 125.8 | 116.8 | 104.8 | 104.8 |
| 120° | 128.8 | 128.8 | 143.7 | 101.8 | 101.8 |
| 122.5° | 134.8 | 134.8 | 152.7 | 113.8 | 101.8 |
| 125° | 140.7 | 140.7 | 167.7 | 143.7 | 119.8 |
| 127.5° | 146.7 | 146.7 | 173.7 | 164.7 | 149.7 |
| 130° | 152.7 | 149.7 | 179.7 | 176.7 | 167.7 |
| 132.5° | 158.7 | 155.7 | 179.7 | 185.7 | 179.7 |
| 135° | 164.7 | 161.7 | 176.7 | 197.6 | 191.6 |
| 137.5° | 167.7 | 167.7 | 173.7 | 200.6 | 200.6 |
| 140° | 173.7 | 173.7 | 173.7 | 197.6 | 206.6 |
| 142.5° | 176.7 | 179.7 | 176.7 | 191.6 | 200.6 |
| 145° | 179.7 | 185.7 | 176.7 | 185.7 | 194.6 |
| 147.5° | 182.7 | 191.6 | 176.7 | 185.7 | 185.7 |
| 150° | 188.7 | 194.6 | 179.7 | 182.7 | 185.7 |
| 152.5° | 188.7 | 200.6 | 185.7 | 182.7 | 182.7 |
| 155° | 191.6 | 203.6 | 191.6 | 182.7 | 182.7 |
| 157.5° | 194.6 | 203.6 | 194.6 | 185.7 | 182.7 |
| 160° | 194.6 | 206.6 | 200.6 | 191.6 | 185.7 |
| 162.5° | 197.6 | 206.6 | 206.6 | 197.6 | 191.6 |
| 165° | 197.6 | 203.6 | 209.6 | 203.6 | 197.6 |
| 167.5° | 197.6 | 203.6 | 209.6 | 206.6 | 200.6 |
| 170° | 200.6 | 203.6 | 206.6 | 206.6 | 200.6 |
| 172.5° | 200.6 | 200.6 | 203.6 | 203.6 | 200.6 |
| 175° | 200.6 | 200.6 | 200.6 | 200.6 | 194.6 |
| 177.5° | 200.6 | 200.6 | 200.6 | 197.6 | 191.6 |
| 180° | 197.6 | 197.6 | 197.6 | 197.6 | 197.6 |

(END OF REPORT)