

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-LD5-14-W-CL-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 (P34177)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-14-W-CL-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

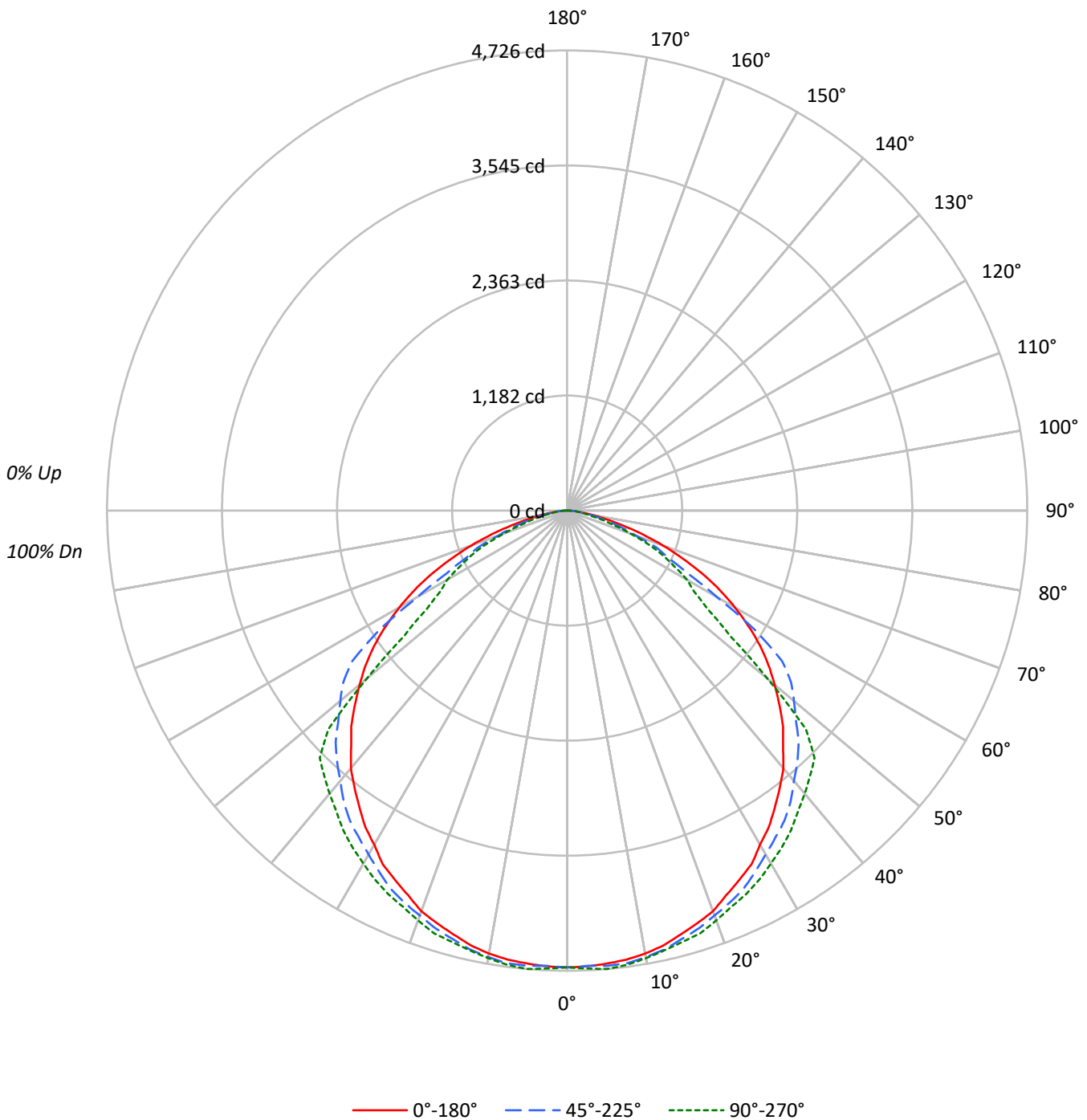
Lumens per Lamp: N/A
Luminaire Lumens: 12706.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
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



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Luminous Intensity Polar Plot





TEST NUMBER: P#

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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 | 110 | 105 | 102 | 98 | 107 | 103 | 100 | 96 | 99 | 96 | 93 | | 95 | 93 | 91 | | 92 | 90 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | | 84 | 80 | 76 | | 81 | 78 | 75 | 73 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | | 75 | 70 | 65 | | 72 | 68 | 64 | 62 |
| 4 | 84 | 73 | 64 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | | 67 | 61 | 56 | | 65 | 60 | 55 | 53 |
| 5 | 78 | 65 | 57 | 50 | 76 | 64 | 56 | 50 | 62 | 55 | 49 | | 60 | 54 | 49 | | 58 | 53 | 48 | 46 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | | 54 | 48 | 43 | | 53 | 47 | 43 | 41 |
| 7 | 67 | 53 | 45 | 39 | 65 | 53 | 44 | 39 | 51 | 44 | 38 | | 50 | 43 | 38 | | 48 | 42 | 38 | 36 |
| 8 | 62 | 49 | 40 | 35 | 60 | 48 | 40 | 34 | 47 | 39 | 34 | | 45 | 39 | 34 | | 44 | 38 | 34 | 32 |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | | 42 | 35 | 31 | | 41 | 35 | 31 | 29 |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | | 39 | 32 | 28 | | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6887 | 6887 | 6887 |
| 5° | 6874 | 6864 | 6898 |
| 10° | 6870 | 6838 | 6825 |
| 15° | 6825 | 6765 | 6769 |
| 20° | 6808 | 6704 | 6727 |
| 25° | 6736 | 6675 | 6698 |
| 30° | 6667 | 6586 | 6674 |
| 35° | 6607 | 6574 | 6672 |
| 40° | 6549 | 6477 | 6663 |
| 45° | 6427 | 6427 | 6725 |
| 50° | 6258 | 6299 | 5439 |
| 55° | 6076 | 6144 | 3891 |
| 60° | 5725 | 4539 | 3514 |
| 65° | 5176 | 3333 | 3054 |
| 70° | 4344 | 2620 | 2296 |
| 75° | 3219 | 1944 | 1532 |
| 80° | 2096 | 1368 | 958 |
| 85° | 1098 | 827 | 716 |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-14-W-CL-UNV-L835-CD2-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 447.1 | 3.5 |
| 10°-20° | 1289.0 | 10.1 |
| 20°-30° | 1973.5 | 15.5 |
| 30°-40° | 2429.2 | 19.1 |
| 40°-50° | 2574.6 | 20.3 |
| 50°-60° | 2067.7 | 16.3 |
| 60°-70° | 1285.1 | 10.1 |
| 70°-80° | 528.9 | 4.2 |
| 80°-90° | 110.8 | 0.9 |
| 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° | 3709.6 | 29.2 |
| 0°-40° | 6138.8 | 48.3 |
| 0°-60° | 10781.2 | 84.9 |
| 0°-90° | 12706.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12706.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4692 | 4692 | 4692 | 4692 | 4692 | |
| 5° | 4671 | 4682 | 4694 | 4719 | 4726 | 444 |
| 15° | 4506 | 4570 | 4554 | 4585 | 4585 | 1274 |
| 25° | 4184 | 4228 | 4287 | 4335 | 4346 | 1930 |
| 35° | 3720 | 3811 | 3890 | 3987 | 4008 | 2329 |
| 45° | 3135 | 3204 | 3362 | 3523 | 3593 | 2412 |
| 55° | 2417 | 2524 | 2696 | 1924 | 1758 | 2151 |
| 65° | 1530 | 1639 | 1137 | 1079 | 1085 | 1508 |
| 75° | 594 | 546 | 453 | 405 | 380 | 651 |
| 85° | 74 | 92 | 97 | 97 | 96 | 106 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-14-W-CL-UNV-L835-CD2-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4691.8 | 4691.8 | 4691.8 | 4691.8 | 4691.8 |
| 2.5° | 4684.2 | 4689.9 | 4680.4 | 4701.4 | 4707.1 |
| 5° | 4670.8 | 4682.3 | 4693.8 | 4718.6 | 4726.2 |
| 7.5° | 4651.7 | 4676.6 | 4689.9 | 4705.2 | 4705.2 |
| 10° | 4619.2 | 4657.5 | 4657.5 | 4663.2 | 4667.0 |
| 12.5° | 4573.4 | 4625.0 | 4615.4 | 4619.2 | 4625.0 |
| 15° | 4506.5 | 4569.6 | 4554.3 | 4584.9 | 4584.9 |
| 17.5° | 4443.5 | 4497.0 | 4498.9 | 4537.1 | 4550.5 |
| 20° | 4378.5 | 4422.5 | 4426.3 | 4481.7 | 4477.9 |
| 22.5° | 4273.5 | 4340.3 | 4359.4 | 4390.0 | 4405.3 |
| 25° | 4183.7 | 4227.6 | 4286.8 | 4334.6 | 4346.1 |
| 27.5° | 4097.7 | 4134.0 | 4181.8 | 4263.9 | 4273.5 |
| 30° | 3962.1 | 4038.5 | 4078.6 | 4187.5 | 4185.6 |
| 32.5° | 3855.1 | 3923.9 | 3981.2 | 4086.3 | 4101.5 |
| 35° | 3719.5 | 3811.2 | 3889.5 | 3986.9 | 4007.9 |
| 37.5° | 3587.7 | 3671.7 | 3769.1 | 3864.7 | 3893.3 |
| 40° | 3453.9 | 3530.3 | 3624.0 | 3738.6 | 3795.9 |
| 42.5° | 3282.0 | 3375.6 | 3497.9 | 3629.7 | 3694.6 |
| 45° | 3134.9 | 3203.7 | 3362.2 | 3522.7 | 3593.4 |
| 47.5° | 2957.2 | 3047.0 | 3186.5 | 3390.9 | 3325.9 |
| 50° | 2781.5 | 2884.6 | 3041.3 | 3071.9 | 2691.7 |
| 52.5° | 2607.6 | 2710.8 | 2899.9 | 2430.0 | 2105.2 |
| 55° | 2416.6 | 2523.6 | 2695.5 | 1923.7 | 1757.5 |
| 57.5° | 2208.4 | 2309.6 | 2294.3 | 1597.1 | 1539.7 |
| 60° | 1992.5 | 2091.8 | 1776.6 | 1398.4 | 1423.2 |
| 62.5° | 1769.0 | 1876.0 | 1394.6 | 1278.0 | 1239.8 |
| 65° | 1530.2 | 1639.1 | 1136.7 | 1079.4 | 1085.1 |
| 67.5° | 1281.9 | 1373.5 | 997.2 | 920.8 | 901.7 |
| 70° | 1046.9 | 1073.6 | 754.6 | 733.6 | 695.4 |
| 72.5° | 811.9 | 777.5 | 599.9 | 554.0 | 513.9 |
| 75° | 594.1 | 546.4 | 452.8 | 405.0 | 380.2 |
| 77.5° | 412.6 | 378.3 | 326.7 | 343.9 | 254.1 |
| 80° | 265.5 | 246.4 | 240.7 | 191.0 | 183.4 |
| 82.5° | 156.6 | 154.7 | 149.0 | 137.5 | 133.7 |
| 85° | 74.5 | 91.7 | 97.4 | 97.4 | 95.5 |
| 87.5° | 26.7 | 45.8 | 61.1 | 65.0 | 68.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)