

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-LD5-18-N-WG-UNV-L850-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 (P34186)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-18-N-WG-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

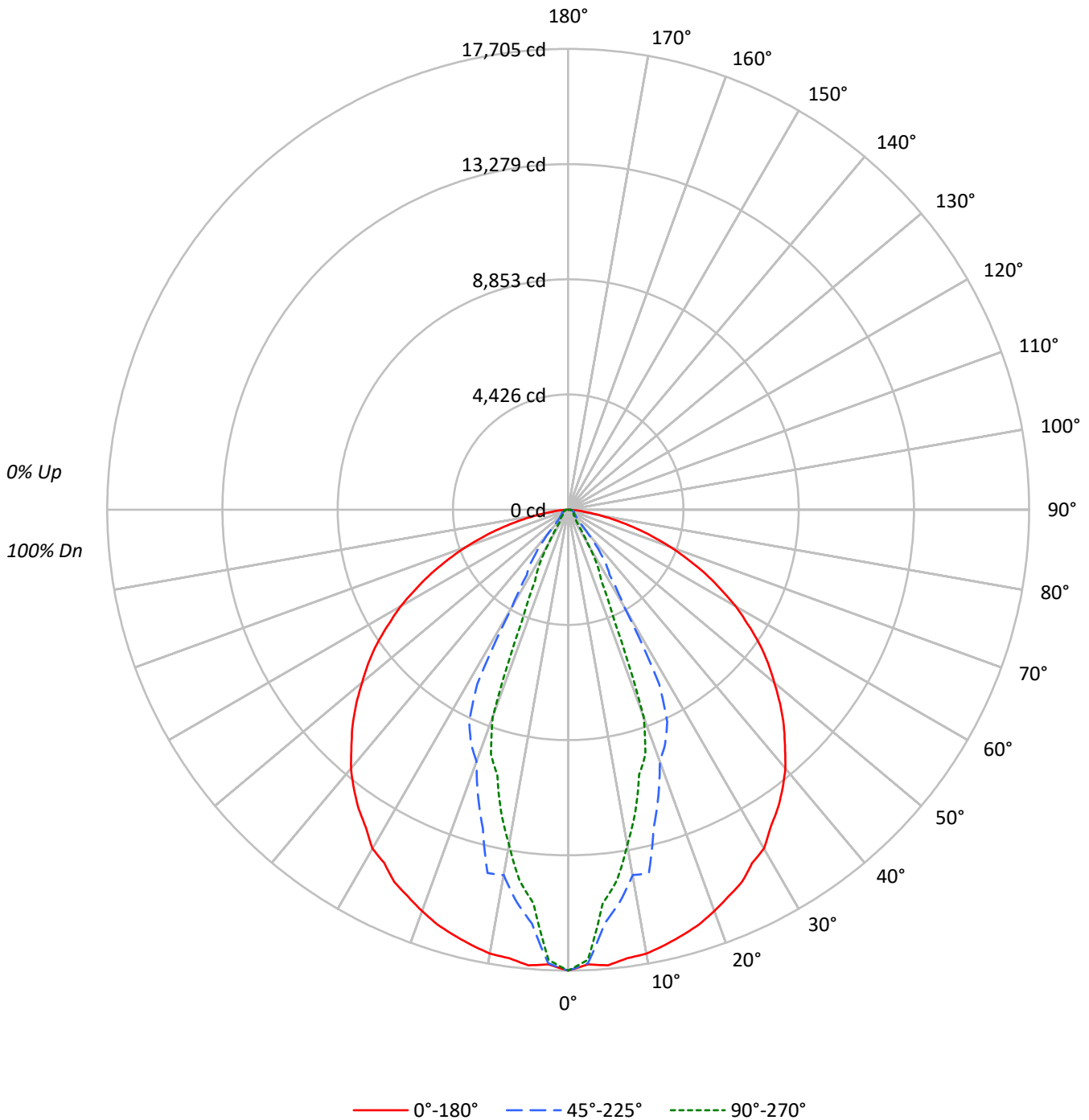
Lumens per Lamp: N/A
Luminaire Lumens: 17578.0 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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#
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Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-N-WG-UNV-L850-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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 111 | 108 | 104 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 | | | | 89 |
| 2 | 104 | 98 | 92 | 88 | 102 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 84 | 81 | 79 | | | | 79 |
| 3 | 97 | 89 | 83 | 77 | 95 | 87 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 80 | 76 | 73 | 71 | | | | 71 |
| 4 | 91 | 81 | 74 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 64 | | | | 64 |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 60 | 59 | | | | 59 |
| 6 | 80 | 69 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 54 | | | | 54 |
| 7 | 76 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 56 | 51 | 60 | 55 | 51 | 49 | | | | 49 |
| 8 | 71 | 60 | 53 | 48 | 70 | 60 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 47 | 46 | | | | 46 |
| 9 | 68 | 56 | 49 | 45 | 66 | 56 | 49 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 53 | 48 | 44 | 43 | | | | 43 |
| 10 | 64 | 53 | 46 | 42 | 63 | 52 | 46 | 42 | 52 | 46 | 42 | 51 | 45 | 41 | 50 | 45 | 41 | 40 | | | | 40 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 25988 | 25988 | 25988 |
| 5° | 25862 | 23353 | 22181 |
| 10° | 25751 | 20934 | 19140 |
| 15° | 25638 | 18828 | 15555 |
| 20° | 25513 | 15587 | 12743 |
| 25° | 25422 | 14013 | 4635 |
| 30° | 25300 | 6984 | 2416 |
| 35° | 24919 | 4228 | 920 |
| 40° | 24610 | 2116 | 802 |
| 45° | 24008 | 917 | 593 |
| 50° | 23246 | 777 | 541 |
| 55° | 22509 | 650 | 567 |
| 60° | 21371 | 676 | 553 |
| 65° | 19638 | 733 | 565 |
| 70° | 17258 | 768 | 586 |
| 75° | 13948 | 849 | 645 |
| 80° | 9597 | 1008 | 714 |
| 85° | 5401 | 1210 | 894 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1512.3 | 8.6 |
| 10°-20° | 3666.4 | 20.9 |
| 20°-30° | 3994.0 | 22.7 |
| 30°-40° | 3072.5 | 17.5 |
| 40°-50° | 2270.2 | 12.9 |
| 50°-60° | 1428.4 | 8.1 |
| 60°-70° | 935.3 | 5.3 |
| 70°-80° | 523.7 | 3.0 |
| 80°-90° | 175.3 | 1.0 |
| 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 |
| <hr/> | | |
| 0°-30° | 9172.7 | 52.2 |
| 0°-40° | 12245.2 | 69.7 |
| 0°-60° | 15943.7 | 90.7 |
| 0°-90° | 17578.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 17578.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 17705 | 17705 | 17705 | 17705 | 17705 | |
| 5° | 17571 | 17435 | 15969 | 15026 | 15198 | ### |
| 15° | 16928 | 14718 | 12676 | 11004 | 10535 | 4780 |
| 25° | 15788 | 11798 | 9000 | 4008 | 3008 | 7258 |
| 35° | 14029 | 8694 | 2502 | 797 | 553 | 8773 |
| 45° | 11710 | 4631 | 480 | 404 | 317 | 9018 |
| 55° | 8953 | 1187 | 285 | 300 | 256 | 7976 |
| 65° | 5806 | 294 | 250 | 224 | 201 | 5726 |
| 75° | 2574 | 221 | 198 | 177 | 160 | 2762 |
| 85° | 366 | 140 | 142 | 137 | 119 | 467 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-N-WG-UNV-L850-CD2-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 17705.2 | 17705.2 | 17705.2 | 17705.2 | 17705.2 |
| 2.5° | 17487.0 | 17492.8 | 17449.2 | 17361.9 | 17306.7 |
| 5° | 17571.4 | 17434.7 | 15968.7 | 15026.3 | 15197.9 |
| 7.5° | 17379.4 | 16672.6 | 15197.9 | 14494.0 | 14357.3 |
| 10° | 17315.4 | 15503.3 | 14258.4 | 14019.9 | 13089.1 |
| 12.5° | 17132.1 | 14793.6 | 14302.0 | 12798.2 | 11905.2 |
| 15° | 16928.5 | 14717.9 | 12676.0 | 11003.6 | 10535.3 |
| 17.5° | 16707.5 | 14054.8 | 11518.4 | 10084.4 | 9860.4 |
| 20° | 16407.9 | 13630.1 | 10290.9 | 9270.0 | 8481.7 |
| 22.5° | 16085.0 | 13426.5 | 9735.4 | 6041.3 | 4683.0 |
| 25° | 15788.3 | 11797.6 | 8999.5 | 4008.2 | 3007.6 |
| 27.5° | 15299.7 | 11666.7 | 7559.7 | 2934.9 | 2481.1 |
| 30° | 15035.0 | 10456.7 | 4325.2 | 2207.7 | 1515.4 |
| 32.5° | 14462.0 | 9508.5 | 2961.0 | 1340.9 | 904.6 |
| 35° | 14028.6 | 8694.1 | 2501.5 | 797.0 | 552.6 |
| 37.5° | 13519.6 | 8156.0 | 1870.3 | 546.8 | 479.9 |
| 40° | 12978.5 | 7521.9 | 1183.8 | 488.7 | 456.7 |
| 42.5° | 12321.2 | 6774.3 | 701.0 | 459.6 | 392.7 |
| 45° | 11710.4 | 4630.6 | 479.9 | 404.3 | 317.0 |
| 47.5° | 11035.5 | 3158.8 | 410.1 | 343.2 | 273.4 |
| 50° | 10331.6 | 2065.2 | 375.2 | 305.4 | 267.6 |
| 52.5° | 9671.4 | 1692.9 | 325.8 | 305.4 | 267.6 |
| 55° | 8952.9 | 1186.7 | 285.1 | 299.6 | 256.0 |
| 57.5° | 8164.7 | 738.8 | 267.6 | 290.9 | 247.2 |
| 60° | 7437.5 | 436.3 | 264.7 | 282.1 | 224.0 |
| 62.5° | 6588.2 | 331.6 | 258.9 | 250.1 | 212.3 |
| 65° | 5805.7 | 293.8 | 250.1 | 224.0 | 200.7 |
| 67.5° | 4965.1 | 264.7 | 232.7 | 215.2 | 194.9 |
| 70° | 4159.4 | 238.5 | 221.1 | 200.7 | 177.4 |
| 72.5° | 3350.8 | 229.8 | 209.4 | 189.1 | 168.7 |
| 75° | 2574.2 | 221.1 | 197.8 | 177.4 | 160.0 |
| 77.5° | 1873.2 | 206.5 | 186.2 | 171.6 | 151.3 |
| 80° | 1215.8 | 189.1 | 177.4 | 160.0 | 136.7 |
| 82.5° | 677.7 | 171.6 | 162.9 | 148.3 | 130.9 |
| 85° | 366.5 | 139.6 | 142.5 | 136.7 | 119.3 |
| 87.5° | 66.9 | 98.9 | 122.2 | 119.3 | 104.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)