

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-LD5-28-W-FLWG-UNV-L835-CD4-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 (P34182)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-28-W-FLWG-UNV-L835-CD4-U  
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

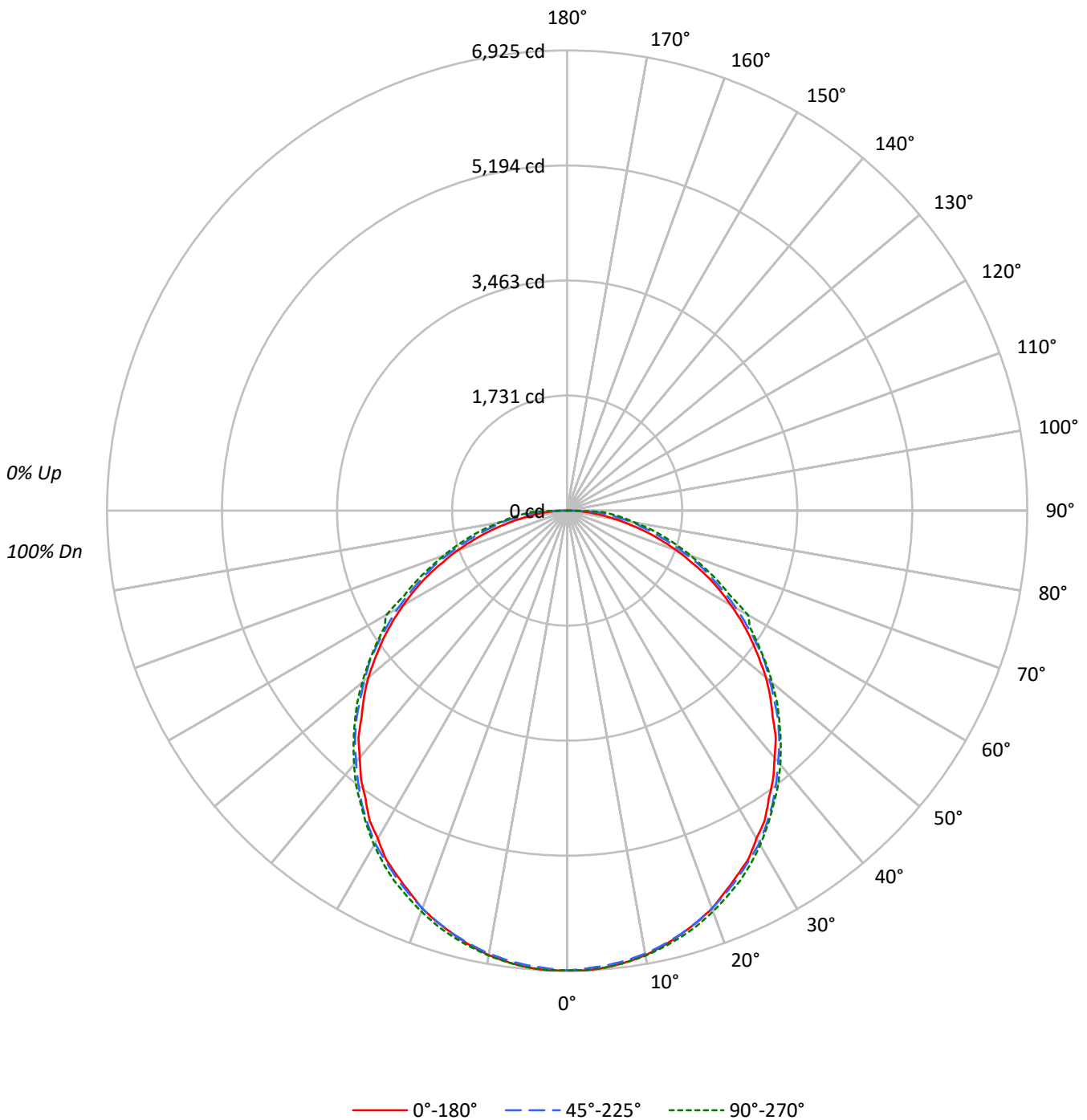
Lumens per Lamp: N/A  
Luminaire Lumens: 19683.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 204  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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  | 95  | 105 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 87  | 89  | 87  | 85  | 83  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 69  |
| 3   | 90  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  | 66  | 59  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 40  | 53  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 39  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 48  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 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  | 26  | 24  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10159 | 10159 | 10159 |
| 5°  | 10154 | 10045 | 10069 |
| 10° | 10102 | 9940  | 9945  |
| 15° | 10002 | 9804  | 9806  |
| 20° | 9911  | 9648  | 9644  |
| 25° | 9752  | 9484  | 9480  |
| 30° | 9588  | 9335  | 9266  |
| 35° | 9397  | 9107  | 9001  |
| 40° | 9208  | 8834  | 8756  |
| 45° | 8965  | 8589  | 8460  |
| 50° | 8785  | 8243  | 8134  |
| 55° | 8497  | 7918  | 7767  |
| 60° | 8181  | 7506  | 7766  |
| 65° | 7817  | 7042  | 7036  |
| 70° | 7285  | 6554  | 6508  |
| 75° | 6629  | 5950  | 6042  |
| 80° | 5723  | 5643  | 5383  |
| 85° | 4897  | 4876  | 5123  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 654.4   | 3.3       |
| 10°-20°   | 1866.7  | 9.5       |
| 20°-30°   | 2811.1  | 14.3      |
| 30°-40°   | 3361.8  | 17.1      |
| 40°-50°   | 3452.5  | 17.5      |
| 50°-60°   | 3100.5  | 15.8      |
| 60°-70°   | 2385.7  | 12.1      |
| 70°-80°   | 1470.4  | 7.5       |
| 80°-90°   | 579.9   | 2.9       |
| 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°    | 5332.2  | 27.1      |
| 0°-40°    | 8694.0  | 44.2      |
| 0°-60°    | 15247.0 | 77.5      |
| 0°-90°    | 19683.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 19683.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6921 | 6921  | 6921 | 6921  | 6921 |      |
| 5°  | 6899 | 6895  | 6868 | 6895  | 6899 | 655  |
| 15° | 6604 | 6616  | 6600 | 6627  | 6642 | 1864 |
| 25° | 6057 | 6064  | 6091 | 6136  | 6151 | 2793 |
| 35° | 5290 | 5366  | 5388 | 5407  | 5407 | 3318 |
| 45° | 4373 | 4441  | 4493 | 4512  | 4520 | 3387 |
| 55° | 3380 | 3425  | 3474 | 3512  | 3508 | 3021 |
| 65° | 2311 | 2334  | 2402 | 2485  | 2500 | 2279 |
| 75° | 1223 | 1288  | 1386 | 1476  | 1499 | 1293 |
| 85° | 332  | 442   | 574  | 657   | 684  | 380  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 6921.4 | 6921.4 | 6921.4 | 6921.4 | 6921.4 |
| 2.5°  | 6925.2 | 6921.4 | 6895.0 | 6913.9 | 6921.4 |
| 5°    | 6898.8 | 6895.0 | 6868.5 | 6895.0 | 6898.8 |
| 7.5°  | 6853.4 | 6853.4 | 6827.0 | 6853.4 | 6857.2 |
| 10°   | 6793.0 | 6793.0 | 6770.4 | 6793.0 | 6800.6 |
| 12.5° | 6706.2 | 6713.7 | 6691.1 | 6717.5 | 6725.1 |
| 15°   | 6604.2 | 6615.6 | 6600.4 | 6626.9 | 6642.0 |
| 17.5° | 6494.7 | 6498.5 | 6490.9 | 6524.9 | 6540.0 |
| 20°   | 6373.9 | 6370.1 | 6370.1 | 6415.4 | 6419.2 |
| 22.5° | 6211.5 | 6230.4 | 6234.2 | 6283.3 | 6287.0 |
| 25°   | 6056.7 | 6064.3 | 6090.7 | 6136.0 | 6151.1 |
| 27.5° | 5909.4 | 5905.7 | 5932.1 | 5973.6 | 5988.7 |
| 30°   | 5698.0 | 5735.7 | 5781.1 | 5796.2 | 5811.3 |
| 32.5° | 5531.8 | 5543.2 | 5588.5 | 5603.6 | 5614.9 |
| 35°   | 5290.2 | 5365.7 | 5388.4 | 5407.2 | 5407.2 |
| 37.5° | 5093.8 | 5135.4 | 5165.6 | 5199.6 | 5214.7 |
| 40°   | 4855.9 | 4908.8 | 4942.8 | 4976.8 | 4988.1 |
| 42.5° | 4648.3 | 4682.2 | 4723.8 | 4750.2 | 4757.8 |
| 45°   | 4372.6 | 4440.6 | 4493.4 | 4512.3 | 4519.9 |
| 47.5° | 4146.0 | 4221.6 | 4229.1 | 4274.4 | 4285.8 |
| 50°   | 3904.4 | 3961.0 | 3979.9 | 4032.8 | 4025.2 |
| 52.5° | 3636.3 | 3704.3 | 3749.6 | 3764.7 | 3768.4 |
| 55°   | 3379.5 | 3424.8 | 3473.9 | 3511.7 | 3507.9 |
| 57.5° | 3119.0 | 3156.7 | 3198.3 | 3254.9 | 3258.7 |
| 60°   | 2847.1 | 2892.4 | 2937.7 | 2994.4 | 3145.4 |
| 62.5° | 2582.8 | 2609.2 | 2662.1 | 2771.6 | 2760.3 |
| 65°   | 2310.9 | 2333.6 | 2401.5 | 2484.6 | 2499.7 |
| 67.5° | 2016.4 | 2061.7 | 2163.6 | 2216.5 | 2224.1 |
| 70°   | 1755.8 | 1797.4 | 1888.0 | 1956.0 | 1971.1 |
| 72.5° | 1480.2 | 1529.3 | 1627.5 | 1714.3 | 1737.0 |
| 75°   | 1223.4 | 1287.6 | 1385.8 | 1476.4 | 1499.1 |
| 77.5° | 959.1  | 1042.2 | 1159.2 | 1378.2 | 1272.5 |
| 80°   | 725.0  | 819.4  | 993.1  | 1019.5 | 1030.8 |
| 82.5° | 517.3  | 619.3  | 743.9  | 834.5  | 864.7  |
| 85°   | 332.3  | 441.8  | 574.0  | 657.0  | 683.5  |
| 87.5° | 185.0  | 290.8  | 430.5  | 513.5  | 536.2  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)