

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-W-TWB-UNV-L840-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 (P34175)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-18-W-TWB-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

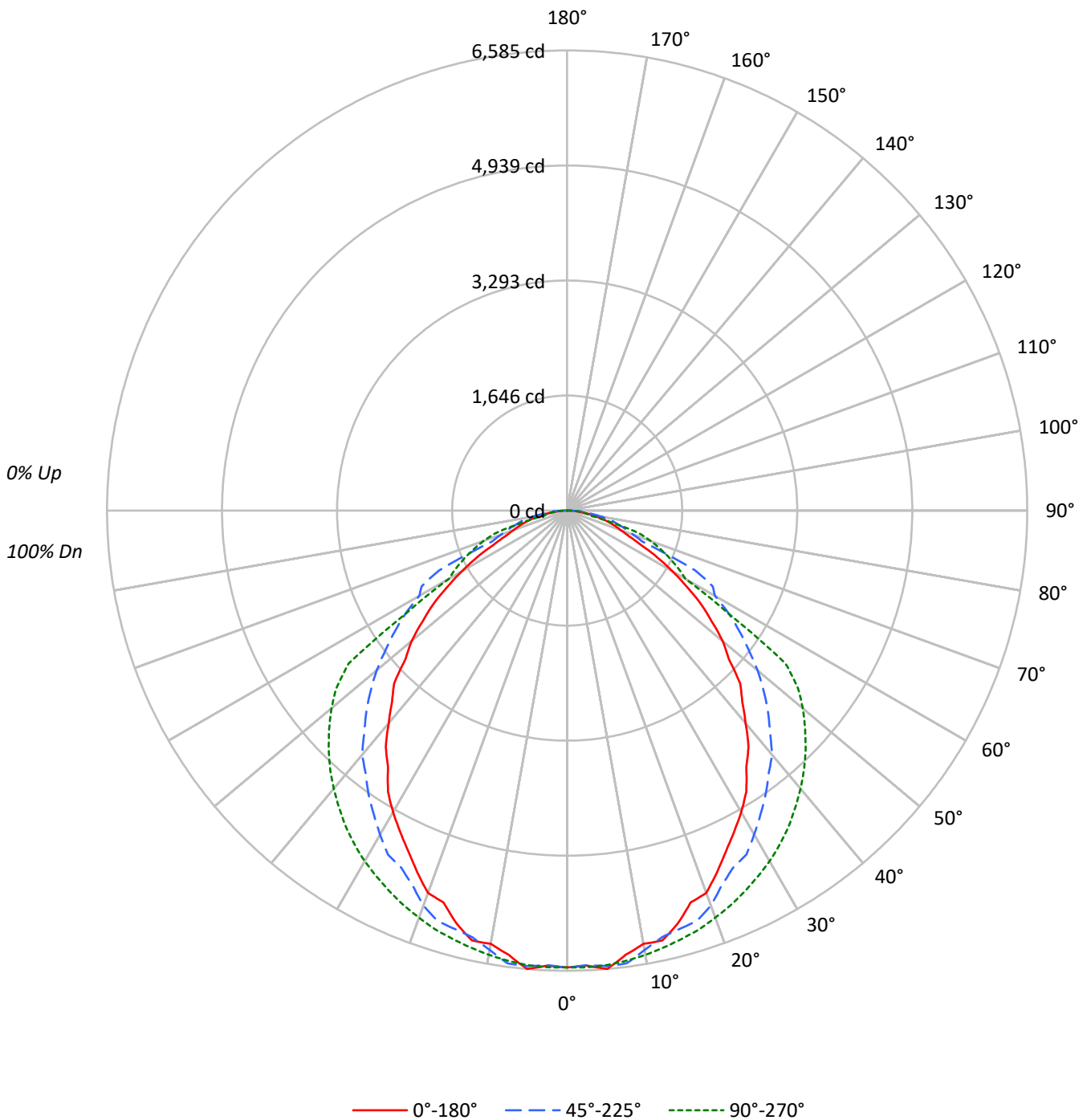
Lumens per Lamp: N/A
Luminaire Lumens: 16487.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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



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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 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 88 | 85 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 72 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 75 | 69 | 65 | 72 | 68 | 64 | 62 |
| 4 | 84 | 73 | 65 | 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 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 46 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 47 | 43 | 41 |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 36 |
| 8 | 62 | 49 | 41 | 35 | 61 | 48 | 40 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 34 | 32 |
| 9 | 58 | 45 | 37 | 32 | 57 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 |
| 10 | 55 | 42 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 38 | 32 | 28 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9596 | 9596 | 9596 |
| 5° | 9692 | 9568 | 9527 |
| 10° | 9364 | 9372 | 9440 |
| 15° | 9264 | 9208 | 9366 |
| 20° | 9055 | 9111 | 9314 |
| 25° | 8659 | 8765 | 9266 |
| 30° | 8384 | 8644 | 9238 |
| 35° | 7939 | 8374 | 9193 |
| 40° | 7536 | 8152 | 9122 |
| 45° | 7179 | 7768 | 9031 |
| 50° | 6540 | 7371 | 8896 |
| 55° | 5888 | 6863 | 8447 |
| 60° | 5006 | 6238 | 4830 |
| 65° | 3948 | 5933 | 4567 |
| 70° | 3377 | 3499 | 4199 |
| 75° | 3223 | 3184 | 2648 |
| 80° | 2947 | 2814 | 1559 |
| 85° | 2347 | 2114 | 1324 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 619.3 | 3.8 |
| 10°-20° | 1758.4 | 10.7 |
| 20°-30° | 2624.6 | 15.9 |
| 30°-40° | 3124.1 | 18.9 |
| 40°-50° | 3158.7 | 19.2 |
| 50°-60° | 2661.4 | 16.1 |
| 60°-70° | 1537.9 | 9.3 |
| 70°-80° | 759.1 | 4.6 |
| 80°-90° | 243.5 | 1.5 |
| 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° | 5002.3 | 30.3 |
| 0°-40° | 8126.4 | 49.3 |
| 0°-60° | 13946.6 | 84.6 |
| 0°-90° | 16487.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 16487.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6538 | 6538 | 6538 | 6538 | 6538 | |
| 5° | 6585 | 6600 | 6543 | 6510 | 6528 | 615 |
| 15° | 6117 | 6212 | 6199 | 6366 | 6344 | 1717 |
| 25° | 5378 | 5478 | 5629 | 5903 | 6013 | 2483 |
| 35° | 4470 | 4651 | 4955 | 5376 | 5522 | 2812 |
| 45° | 3502 | 3609 | 4064 | 4552 | 4826 | 2657 |
| 55° | 2342 | 2526 | 3011 | 3591 | 3815 | 2079 |
| 65° | 1167 | 1424 | 2023 | 1521 | 1623 | 1202 |
| 75° | 595 | 732 | 742 | 816 | 657 | 625 |
| 85° | 159 | 197 | 249 | 296 | 177 | 183 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-TWB-UNV-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 6537.7 | 6537.7 | 6537.7 | 6537.7 | 6537.7 |
| 2.5° | 6517.8 | 6525.3 | 6510.3 | 6547.7 | 6540.2 |
| 5° | 6585.0 | 6599.9 | 6542.7 | 6510.3 | 6527.8 |
| 7.5° | 6413.3 | 6445.6 | 6535.2 | 6492.9 | 6497.9 |
| 10° | 6296.3 | 6301.3 | 6383.4 | 6515.3 | 6455.6 |
| 12.5° | 6301.3 | 6291.3 | 6254.0 | 6480.5 | 6403.3 |
| 15° | 6117.1 | 6211.7 | 6199.3 | 6366.0 | 6343.6 |
| 17.5° | 5880.7 | 5972.8 | 6159.4 | 6251.5 | 6283.9 |
| 20° | 5823.5 | 5791.1 | 6015.1 | 6104.7 | 6199.3 |
| 22.5° | 5602.0 | 5731.4 | 5793.6 | 5992.7 | 6114.6 |
| 25° | 5378.0 | 5477.5 | 5629.3 | 5903.1 | 6012.6 |
| 27.5° | 5176.4 | 5283.4 | 5552.2 | 5818.5 | 5905.6 |
| 30° | 4982.3 | 5081.8 | 5353.1 | 5711.5 | 5793.6 |
| 32.5° | 4770.8 | 4895.2 | 5151.5 | 5582.1 | 5664.2 |
| 35° | 4469.6 | 4651.3 | 4954.9 | 5375.5 | 5522.3 |
| 37.5° | 4263.1 | 4382.5 | 4738.4 | 5156.5 | 5360.6 |
| 40° | 3974.4 | 4166.0 | 4561.7 | 4987.3 | 5196.3 |
| 42.5° | 3708.1 | 3897.2 | 4295.4 | 4775.7 | 5019.6 |
| 45° | 3501.5 | 3608.6 | 4064.0 | 4551.8 | 4825.5 |
| 47.5° | 3133.2 | 3404.5 | 3812.6 | 4312.8 | 4619.0 |
| 50° | 2906.8 | 3093.4 | 3558.8 | 4083.9 | 4402.4 |
| 52.5° | 2613.1 | 2822.1 | 3272.6 | 3830.0 | 4161.0 |
| 55° | 2341.8 | 2526.0 | 3011.3 | 3591.1 | 3815.1 |
| 57.5° | 2033.2 | 2269.7 | 2740.0 | 3319.9 | 2722.6 |
| 60° | 1742.1 | 1978.5 | 2441.4 | 2242.3 | 1956.1 |
| 62.5° | 1463.3 | 1672.4 | 2349.3 | 1687.3 | 1794.3 |
| 65° | 1167.2 | 1423.5 | 2023.3 | 1520.6 | 1622.6 |
| 67.5° | 958.1 | 1137.3 | 1167.2 | 1361.3 | 1450.9 |
| 70° | 813.8 | 900.9 | 1007.9 | 1207.0 | 1271.7 |
| 72.5° | 706.8 | 744.1 | 876.0 | 1072.6 | 1082.6 |
| 75° | 594.8 | 731.7 | 741.6 | 816.3 | 657.0 |
| 77.5° | 475.3 | 589.8 | 642.1 | 475.3 | 336.0 |
| 80° | 373.3 | 400.7 | 495.2 | 418.1 | 298.6 |
| 82.5° | 258.8 | 296.2 | 343.4 | 360.9 | 246.4 |
| 85° | 159.3 | 196.6 | 248.9 | 296.2 | 176.7 |
| 87.5° | 67.2 | 107.0 | 171.7 | 229.0 | 97.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)