

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-LD5-32-N-TWBWG-UNV-L840-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 (P34186)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-32-N-TWBWG-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD
DISTRIBUION

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

Summary

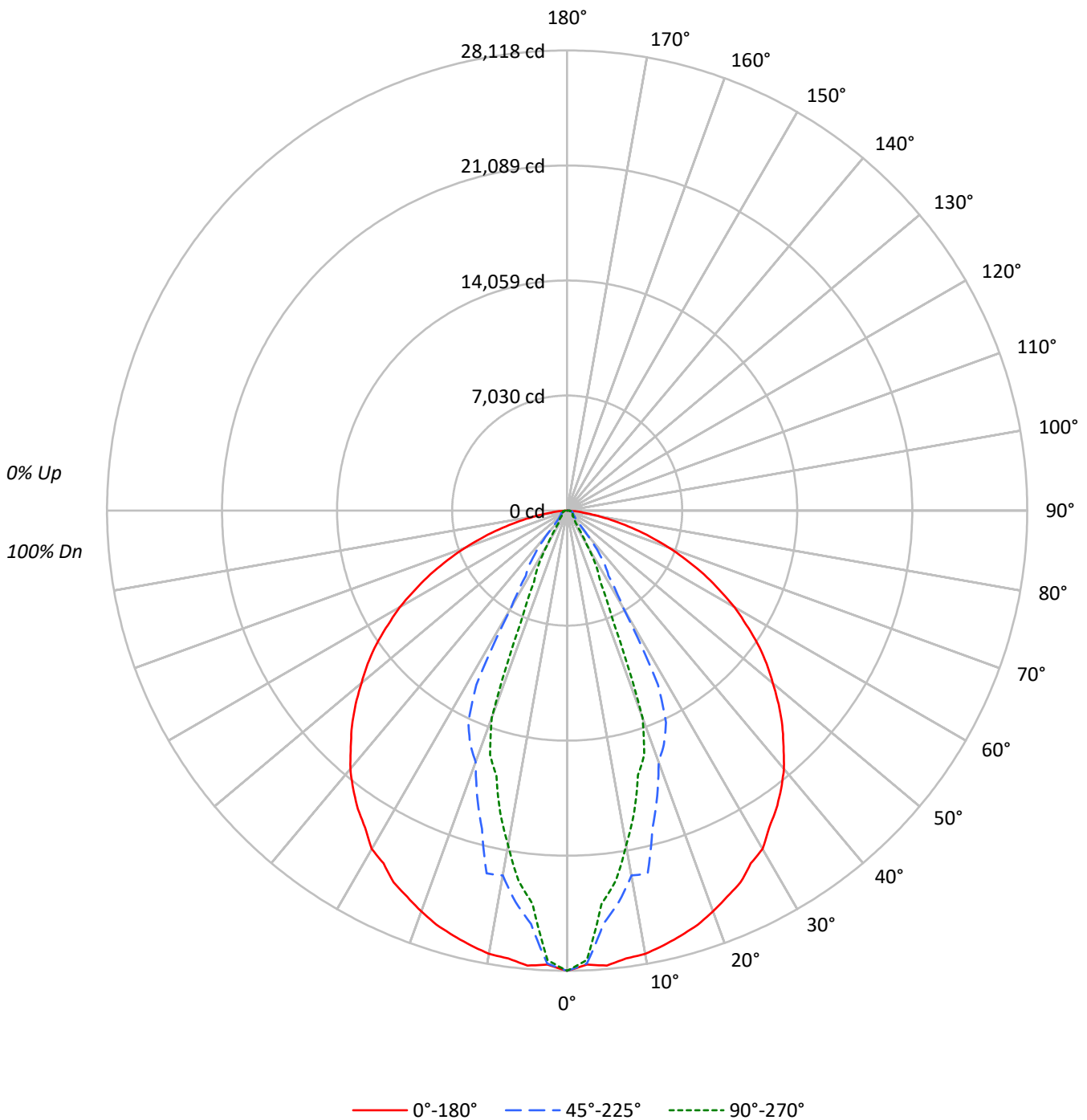
Lumens per Lamp: N/A
Luminaire Lumens: 27916.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
Input Voltage (V):
Input Current (Ain): 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-LD5-32-N-TWBWG-UNV-L840-CD4-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 | 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° | 41272 | 41272 | 41272 |
| 5° | 41071 | 37087 | 35226 |
| 10° | 40896 | 33246 | 30397 |
| 15° | 40717 | 29902 | 24703 |
| 20° | 40518 | 24754 | 20237 |
| 25° | 40373 | 22255 | 7361 |
| 30° | 40179 | 11092 | 3837 |
| 35° | 39575 | 6714 | 1461 |
| 40° | 39083 | 3360 | 1273 |
| 45° | 38128 | 1457 | 942 |
| 50° | 36917 | 1234 | 859 |
| 55° | 35747 | 1032 | 900 |
| 60° | 33940 | 1074 | 878 |
| 65° | 31187 | 1165 | 897 |
| 70° | 27408 | 1219 | 930 |
| 75° | 22151 | 1349 | 1024 |
| 80° | 15241 | 1601 | 1134 |
| 85° | 8576 | 1922 | 1420 |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-32-N-TWBWG-UNV-L840-CD4-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2401.8 | 8.6 |
| 10°-20° | 5822.6 | 20.9 |
| 20°-30° | 6342.9 | 22.7 |
| 30°-40° | 4879.5 | 17.5 |
| 40°-50° | 3605.3 | 12.9 |
| 50°-60° | 2268.4 | 8.1 |
| 60°-70° | 1485.4 | 5.3 |
| 70°-80° | 831.6 | 3.0 |
| 80°-90° | 278.5 | 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 |
| 0°-30° | 14567.4 | 52.2 |
| 0°-40° | 19446.8 | 69.7 |
| 0°-60° | 25320.5 | 90.7 |
| 0°-90° | 27916.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 27916.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|-------|
| 0° | 28118 | 28118 | 28118 | 28118 | 28118 | |
| 5° | 27906 | 27688 | 25360 | 23864 | 24136 | ### |
| 15° | 26885 | 23374 | 20131 | 17475 | 16731 | 7591 |
| 25° | 25074 | 18736 | 14292 | 6366 | 4776 | 11527 |
| 35° | 22279 | 13807 | 3973 | 1266 | 878 | 13933 |
| 45° | 18598 | 7354 | 762 | 642 | 504 | 14322 |
| 55° | 14218 | 1885 | 453 | 476 | 406 | 12667 |
| 65° | 9220 | 467 | 397 | 356 | 319 | 9094 |
| 75° | 4088 | 351 | 314 | 282 | 254 | 4386 |
| 85° | 582 | 222 | 226 | 217 | 189 | 742 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-32-N-TWBWG-UNV-L840-CD4-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 28117.9 | 28117.9 | 28117.9 | 28117.9 | 28117.9 |
| 2.5° | 27771.5 | 27780.7 | 27711.4 | 27572.9 | 27485.1 |
| 5° | 27905.5 | 27688.3 | 25360.2 | 23863.5 | 24136.1 |
| 7.5° | 27600.6 | 26478.1 | 24136.1 | 23018.2 | 22801.1 |
| 10° | 27499.0 | 24621.1 | 22644.0 | 22265.2 | 20787.0 |
| 12.5° | 27207.9 | 23494.0 | 22713.3 | 20325.1 | 18907.0 |
| 15° | 26884.6 | 23373.9 | 20131.1 | 17475.0 | 16731.3 |
| 17.5° | 26533.5 | 22320.7 | 18292.6 | 16015.3 | 15659.6 |
| 20° | 26057.7 | 21646.2 | 16343.2 | 14721.8 | 13470.0 |
| 22.5° | 25545.0 | 21322.9 | 15460.9 | 9594.4 | 7437.1 |
| 25° | 25073.8 | 18736.1 | 14292.3 | 6365.5 | 4776.4 |
| 27.5° | 24297.7 | 18528.2 | 12005.7 | 4660.9 | 3940.3 |
| 30° | 23877.4 | 16606.5 | 6869.0 | 3506.1 | 2406.7 |
| 32.5° | 22967.4 | 15100.6 | 4702.5 | 2129.5 | 1436.6 |
| 35° | 22279.1 | 13807.2 | 3972.6 | 1265.7 | 877.7 |
| 37.5° | 21470.7 | 12952.6 | 2970.2 | 868.4 | 762.2 |
| 40° | 20611.5 | 11945.6 | 1880.1 | 776.0 | 725.2 |
| 42.5° | 19567.5 | 10758.5 | 1113.3 | 729.9 | 623.6 |
| 45° | 18597.5 | 7354.0 | 762.2 | 642.1 | 503.5 |
| 47.5° | 17525.8 | 5016.6 | 651.3 | 545.1 | 434.2 |
| 50° | 16407.9 | 3279.7 | 595.9 | 485.0 | 425.0 |
| 52.5° | 15359.3 | 2688.5 | 517.4 | 485.0 | 425.0 |
| 55° | 14218.3 | 1884.7 | 452.7 | 475.8 | 406.5 |
| 57.5° | 12966.5 | 1173.3 | 425.0 | 461.9 | 392.6 |
| 60° | 11811.7 | 692.9 | 420.4 | 448.1 | 355.7 |
| 62.5° | 10462.8 | 526.6 | 411.1 | 397.3 | 337.2 |
| 65° | 9220.2 | 466.6 | 397.3 | 355.7 | 318.7 |
| 67.5° | 7885.2 | 420.4 | 369.5 | 341.8 | 309.5 |
| 70° | 6605.7 | 378.8 | 351.1 | 318.7 | 281.8 |
| 72.5° | 5321.5 | 364.9 | 332.6 | 300.3 | 267.9 |
| 75° | 4088.1 | 351.1 | 314.1 | 281.8 | 254.1 |
| 77.5° | 2974.9 | 328.0 | 295.6 | 272.5 | 240.2 |
| 80° | 1930.9 | 300.3 | 281.8 | 254.1 | 217.1 |
| 82.5° | 1076.3 | 272.5 | 258.7 | 235.6 | 207.9 |
| 85° | 582.0 | 221.7 | 226.3 | 217.1 | 189.4 |
| 87.5° | 106.2 | 157.1 | 194.0 | 189.4 | 166.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)