

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-WG-UNV-L850-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-WG-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

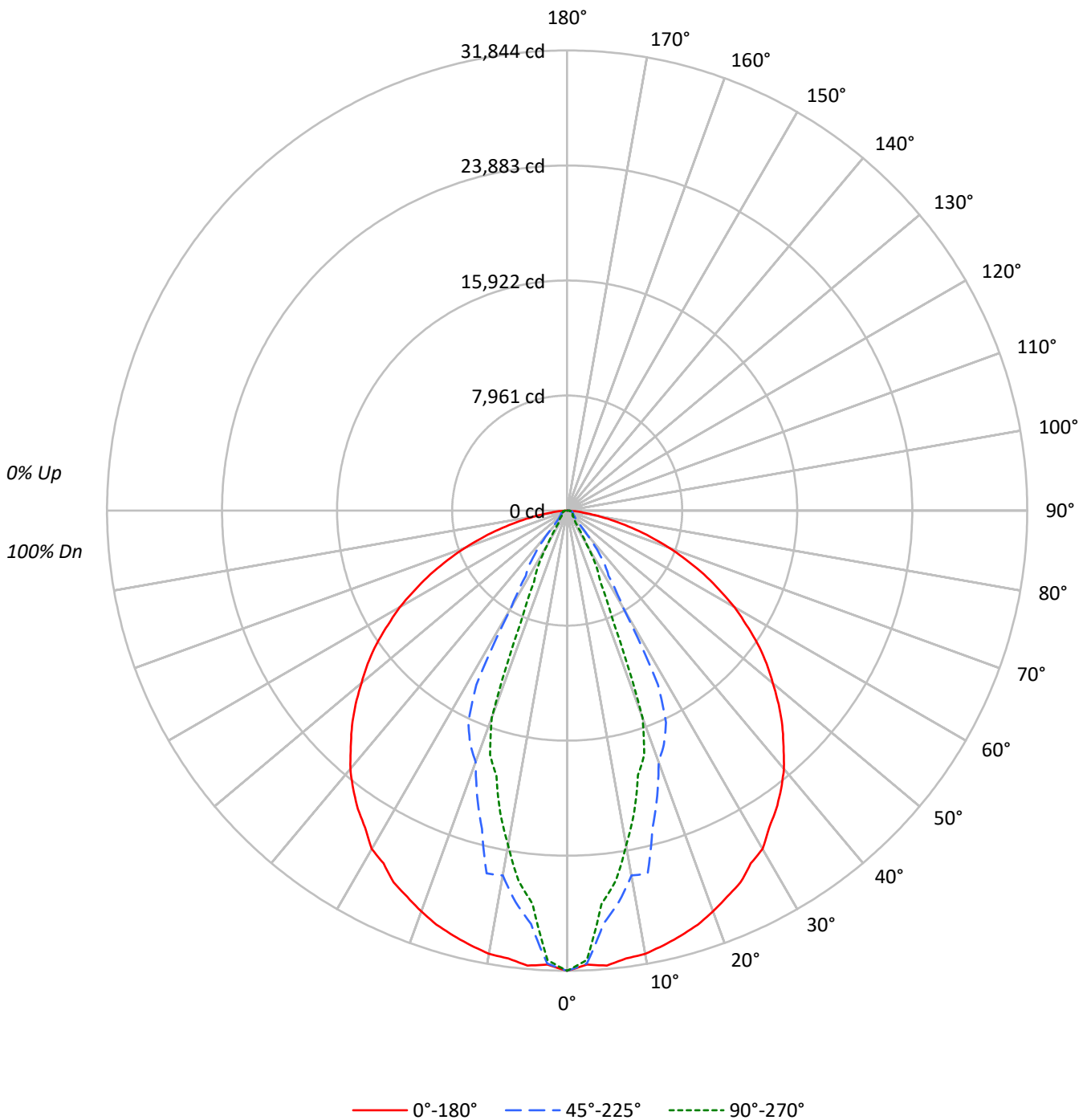
Lumens per Lamp: N/A
Luminaire Lumens: 31615.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
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 | 111 | 108 | 104 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 |
| 2 | 104 | 98 | 92 | 88 | 102 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 84 | 81 | 79 |
| 3 | 97 | 89 | 83 | 77 | 95 | 87 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 80 | 76 | 73 | 71 |
| 4 | 91 | 81 | 74 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 64 |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 60 | 59 |
| 6 | 80 | 69 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 54 |
| 7 | 76 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 56 | 51 | 60 | 55 | 51 | 49 |
| 8 | 71 | 60 | 53 | 48 | 70 | 60 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 47 | 46 |
| 9 | 68 | 56 | 49 | 45 | 66 | 56 | 49 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 53 | 48 | 44 | 43 |
| 10 | 64 | 53 | 46 | 42 | 63 | 52 | 46 | 42 | 52 | 46 | 42 | 51 | 45 | 41 | 50 | 45 | 41 | 40 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 46740 | 46740 | 46740 |
| 5° | 46514 | 42001 | 39894 |
| 10° | 46315 | 37651 | 34425 |
| 15° | 46112 | 33864 | 27976 |
| 20° | 45887 | 28034 | 22918 |
| 25° | 45722 | 25203 | 8337 |
| 30° | 45503 | 12561 | 4346 |
| 35° | 44819 | 7604 | 1655 |
| 40° | 44262 | 3805 | 1442 |
| 45° | 43180 | 1650 | 1067 |
| 50° | 41809 | 1398 | 973 |
| 55° | 40484 | 1169 | 1019 |
| 60° | 38437 | 1216 | 995 |
| 65° | 35319 | 1319 | 1016 |
| 70° | 31039 | 1380 | 1054 |
| 75° | 25086 | 1527 | 1160 |
| 80° | 17260 | 1813 | 1284 |
| 85° | 9714 | 2177 | 1608 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2720.0 | 8.6 |
| 10°-20° | 6594.2 | 20.9 |
| 20°-30° | 7183.4 | 22.7 |
| 30°-40° | 5526.0 | 17.5 |
| 40°-50° | 4083.0 | 12.9 |
| 50°-60° | 2569.0 | 8.1 |
| 60°-70° | 1682.2 | 5.3 |
| 70°-80° | 941.8 | 3.0 |
| 80°-90° | 315.4 | 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° | 16497.6 | 52.2 |
| 0°-40° | 22023.6 | 69.7 |
| 0°-60° | 28675.6 | 90.7 |
| 0°-90° | 31615.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 31615.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|-------|
| 0° | 31844 | 31844 | 31844 | 31844 | 31844 | |
| 5° | 31603 | 31357 | 28720 | 27026 | 27334 | ### |
| 15° | 30447 | 26471 | 22799 | 19790 | 18948 | 8597 |
| 25° | 28396 | 21219 | 16186 | 7209 | 5409 | 13054 |
| 35° | 25231 | 15637 | 4499 | 1433 | 994 | 15779 |
| 45° | 21062 | 8328 | 863 | 727 | 570 | 16220 |
| 55° | 16102 | 2134 | 513 | 539 | 460 | 14345 |
| 65° | 10442 | 528 | 450 | 403 | 361 | 10299 |
| 75° | 4630 | 398 | 356 | 319 | 288 | 4967 |
| 85° | 659 | 251 | 256 | 246 | 214 | 840 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-32-N-WG-UNV-L850-CD4-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 31843.7 | 31843.7 | 31843.7 | 31843.7 | 31843.7 |
| 2.5° | 31451.3 | 31461.8 | 31383.3 | 31226.4 | 31127.0 |
| 5° | 31603.1 | 31357.2 | 28720.5 | 27025.6 | 27334.2 |
| 7.5° | 31257.8 | 29986.5 | 27334.2 | 26068.2 | 25822.3 |
| 10° | 31142.7 | 27883.5 | 25644.5 | 25215.5 | 23541.4 |
| 12.5° | 30813.1 | 26607.0 | 25722.9 | 23018.3 | 21412.2 |
| 15° | 30446.9 | 26471.0 | 22798.6 | 19790.5 | 18948.2 |
| 17.5° | 30049.3 | 25278.3 | 20716.5 | 18137.4 | 17734.5 |
| 20° | 29510.5 | 24514.5 | 18508.8 | 16672.6 | 15254.8 |
| 22.5° | 28929.8 | 24148.3 | 17509.6 | 10865.7 | 8422.6 |
| 25° | 28396.2 | 21218.7 | 16186.0 | 7208.9 | 5409.3 |
| 27.5° | 27517.3 | 20983.3 | 13596.5 | 5278.5 | 4462.4 |
| 30° | 27041.3 | 18807.0 | 7779.1 | 3970.7 | 2725.6 |
| 32.5° | 26010.7 | 17101.5 | 5325.6 | 2411.7 | 1627.0 |
| 35° | 25231.2 | 15636.7 | 4499.0 | 1433.4 | 994.0 |
| 37.5° | 24315.7 | 14668.9 | 3363.8 | 983.5 | 863.2 |
| 40° | 23342.6 | 13528.5 | 2129.2 | 878.9 | 821.3 |
| 42.5° | 22160.3 | 12184.0 | 1260.8 | 826.6 | 706.2 |
| 45° | 21061.7 | 8328.4 | 863.2 | 727.2 | 570.2 |
| 47.5° | 19848.0 | 5681.3 | 737.6 | 617.3 | 491.8 |
| 50° | 18582.0 | 3714.3 | 674.9 | 549.3 | 481.3 |
| 52.5° | 17394.5 | 3044.7 | 585.9 | 549.3 | 481.3 |
| 55° | 16102.3 | 2134.4 | 512.7 | 538.8 | 460.4 |
| 57.5° | 14684.6 | 1328.8 | 481.3 | 523.1 | 444.7 |
| 60° | 13376.8 | 784.7 | 476.1 | 507.4 | 402.8 |
| 62.5° | 11849.2 | 596.4 | 465.6 | 449.9 | 381.9 |
| 65° | 10441.9 | 528.4 | 449.9 | 402.8 | 361.0 |
| 67.5° | 8930.0 | 476.1 | 418.5 | 387.1 | 350.5 |
| 70° | 7480.9 | 429.0 | 397.6 | 361.0 | 319.1 |
| 72.5° | 6026.6 | 413.3 | 376.7 | 340.0 | 303.4 |
| 75° | 4629.8 | 397.6 | 355.7 | 319.1 | 287.7 |
| 77.5° | 3369.0 | 371.4 | 334.8 | 308.7 | 272.0 |
| 80° | 2186.7 | 340.0 | 319.1 | 287.7 | 245.9 |
| 82.5° | 1218.9 | 308.7 | 293.0 | 266.8 | 235.4 |
| 85° | 659.2 | 251.1 | 256.3 | 245.9 | 214.5 |
| 87.5° | 120.3 | 177.9 | 219.7 | 214.5 | 188.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)