

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-LD5-10-W-UNV-L850-CD1-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 (P34173)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-10-W-UNV-L850-CD1-U
Description: Metalux 8' ILED WITH OPEN WIDE DISTRIBUTION

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

Summary

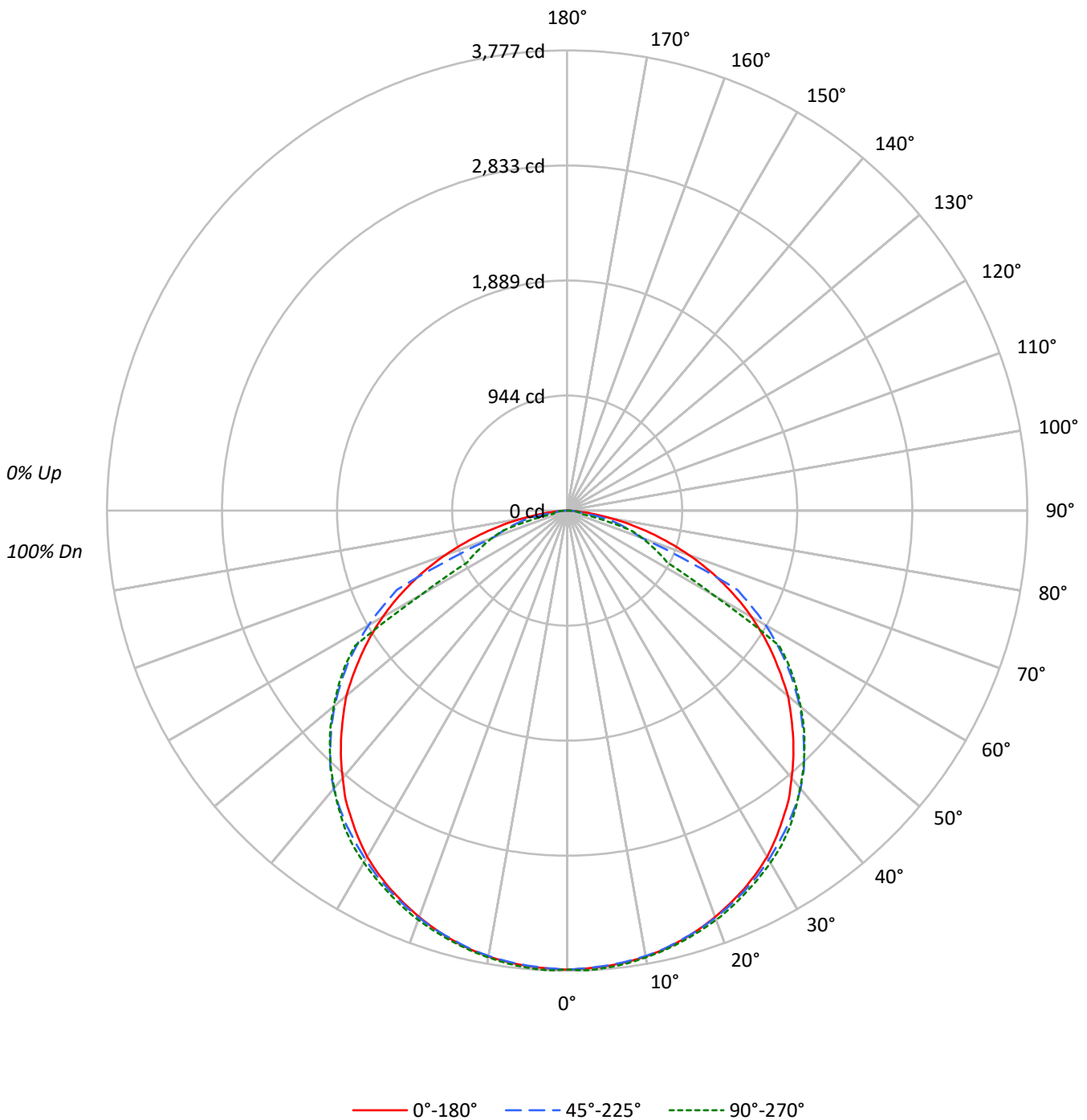
Lumens per Lamp: N/A
Luminaire Lumens: 10873.0 lumens
Efficiency: N/A
Efficacy: 162.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
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#
CATALOG NUMBER: 8ILED-LD5-10-W-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-10-W-UNV-L850-CD1-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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | | | | | 85 | | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 73 | | | | | 71 | | | | |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | | | | | 60 | | | | |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | | | | | 51 | | | | |
| 5 | 77 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | | | | | 44 | | | | |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | | | | | 39 | | | | |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | | | | | 34 | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 38 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | | | | | 30 | | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 34 | 29 | 41 | 34 | 29 | 39 | 33 | 29 | | | | | 27 | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 37 | 31 | 26 | | | | | 25 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5530 | 5530 | 5530 |
| 5° | 5523 | 5484 | 5497 |
| 10° | 5528 | 5450 | 5446 |
| 15° | 5525 | 5412 | 5403 |
| 20° | 5520 | 5389 | 5372 |
| 25° | 5521 | 5362 | 5337 |
| 30° | 5522 | 5342 | 5321 |
| 35° | 5485 | 5333 | 5296 |
| 40° | 5434 | 5328 | 5223 |
| 45° | 5377 | 5254 | 5156 |
| 50° | 5324 | 5159 | 5055 |
| 55° | 5180 | 5017 | 4930 |
| 60° | 5027 | 4815 | 3423 |
| 65° | 4781 | 4528 | 2348 |
| 70° | 4402 | 2214 | 2150 |
| 75° | 3805 | 1933 | 1342 |
| 80° | 2878 | 1151 | 548 |
| 85° | 1503 | 586 | 506 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 357.4 | 3.3 |
| 10°-20° | 1032.0 | 9.5 |
| 20°-30° | 1591.2 | 14.6 |
| 30°-40° | 1970.3 | 18.1 |
| 40°-50° | 2097.4 | 19.3 |
| 50°-60° | 1935.4 | 17.8 |
| 60°-70° | 1239.1 | 11.4 |
| 70°-80° | 558.2 | 5.1 |
| 80°-90° | 92.2 | 0.8 |
| 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° | 2980.5 | 27.4 |
| 0°-40° | 4950.8 | 45.5 |
| 0°-60° | 8983.5 | 82.6 |
| 0°-90° | 10873.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 10873.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3768 | 3768 | 3768 | 3768 | 3768 | |
| 5° | 3753 | 3759 | 3750 | 3760 | 3766 | 357 |
| 15° | 3648 | 3654 | 3643 | 3661 | 3660 | 1030 |
| 25° | 3429 | 3438 | 3444 | 3466 | 3463 | 1581 |
| 35° | 3088 | 3120 | 3156 | 3189 | 3181 | 1933 |
| 45° | 2623 | 2677 | 2749 | 2767 | 2755 | 2024 |
| 55° | 2060 | 2135 | 2201 | 2237 | 2227 | 1843 |
| 65° | 1414 | 1481 | 1544 | 852 | 834 | 1396 |
| 75° | 702 | 764 | 450 | 462 | 333 | 746 |
| 85° | 102 | 76 | 69 | 74 | 68 | 149 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-10-W-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3767.8 | 3767.8 | 3767.8 | 3767.8 | 3767.8 |
| 2.5° | 3761.8 | 3769.3 | 3758.8 | 3769.3 | 3776.8 |
| 5° | 3752.8 | 3758.8 | 3749.8 | 3760.3 | 3766.3 |
| 7.5° | 3737.8 | 3743.8 | 3733.3 | 3743.8 | 3749.8 |
| 10° | 3716.8 | 3719.8 | 3712.3 | 3722.8 | 3724.3 |
| 12.5° | 3686.8 | 3689.8 | 3683.8 | 3694.3 | 3695.8 |
| 15° | 3647.8 | 3653.8 | 3643.3 | 3661.3 | 3659.8 |
| 17.5° | 3602.7 | 3608.7 | 3604.2 | 3617.7 | 3619.2 |
| 20° | 3550.2 | 3556.2 | 3557.7 | 3574.2 | 3575.7 |
| 22.5° | 3491.7 | 3500.7 | 3502.2 | 3524.7 | 3523.2 |
| 25° | 3428.7 | 3437.7 | 3443.7 | 3466.2 | 3463.2 |
| 27.5° | 3359.7 | 3371.7 | 3380.7 | 3403.2 | 3403.2 |
| 30° | 3281.6 | 3298.1 | 3308.6 | 3338.6 | 3337.1 |
| 32.5° | 3188.6 | 3220.1 | 3232.1 | 3269.6 | 3266.6 |
| 35° | 3088.1 | 3119.6 | 3155.6 | 3188.6 | 3181.1 |
| 37.5° | 2989.0 | 3020.5 | 3070.1 | 3089.6 | 3080.6 |
| 40° | 2866.0 | 2918.5 | 2981.5 | 2989.0 | 2975.5 |
| 42.5° | 2748.9 | 2791.0 | 2876.5 | 2881.0 | 2869.0 |
| 45° | 2622.9 | 2676.9 | 2748.9 | 2767.0 | 2754.9 |
| 47.5° | 2492.4 | 2538.9 | 2622.9 | 2645.4 | 2636.4 |
| 50° | 2366.3 | 2408.3 | 2490.9 | 2513.4 | 2501.4 |
| 52.5° | 2211.8 | 2274.8 | 2345.3 | 2381.3 | 2367.8 |
| 55° | 2060.2 | 2135.2 | 2201.3 | 2237.3 | 2226.8 |
| 57.5° | 1908.7 | 1991.2 | 2040.7 | 2090.2 | 2064.7 |
| 60° | 1749.6 | 1830.6 | 1884.6 | 1862.1 | 1386.5 |
| 62.5° | 1584.5 | 1662.6 | 1707.6 | 1144.9 | 928.8 |
| 65° | 1413.5 | 1481.0 | 1544.0 | 852.3 | 834.3 |
| 67.5° | 1239.4 | 1306.9 | 1027.9 | 757.8 | 741.3 |
| 70° | 1060.9 | 1123.9 | 637.7 | 660.2 | 651.2 |
| 72.5° | 880.8 | 940.8 | 547.7 | 573.2 | 561.2 |
| 75° | 702.2 | 763.8 | 450.2 | 462.2 | 333.1 |
| 77.5° | 535.7 | 526.7 | 363.1 | 255.1 | 114.0 |
| 80° | 364.6 | 243.1 | 202.6 | 106.5 | 105.0 |
| 82.5° | 226.6 | 163.6 | 85.5 | 94.5 | 93.0 |
| 85° | 102.0 | 76.5 | 69.0 | 73.5 | 67.5 |
| 87.5° | 36.0 | 37.5 | 42.0 | 39.0 | 36.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)