

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: FAIL-SAFE

Report Number: P184360

Luminaire Tested: **ENW/ENC-12-4-LD1-33-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184360
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32842)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ENW/ENC-12-4-LD1-33-40-CA125-UNV-EDC1
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

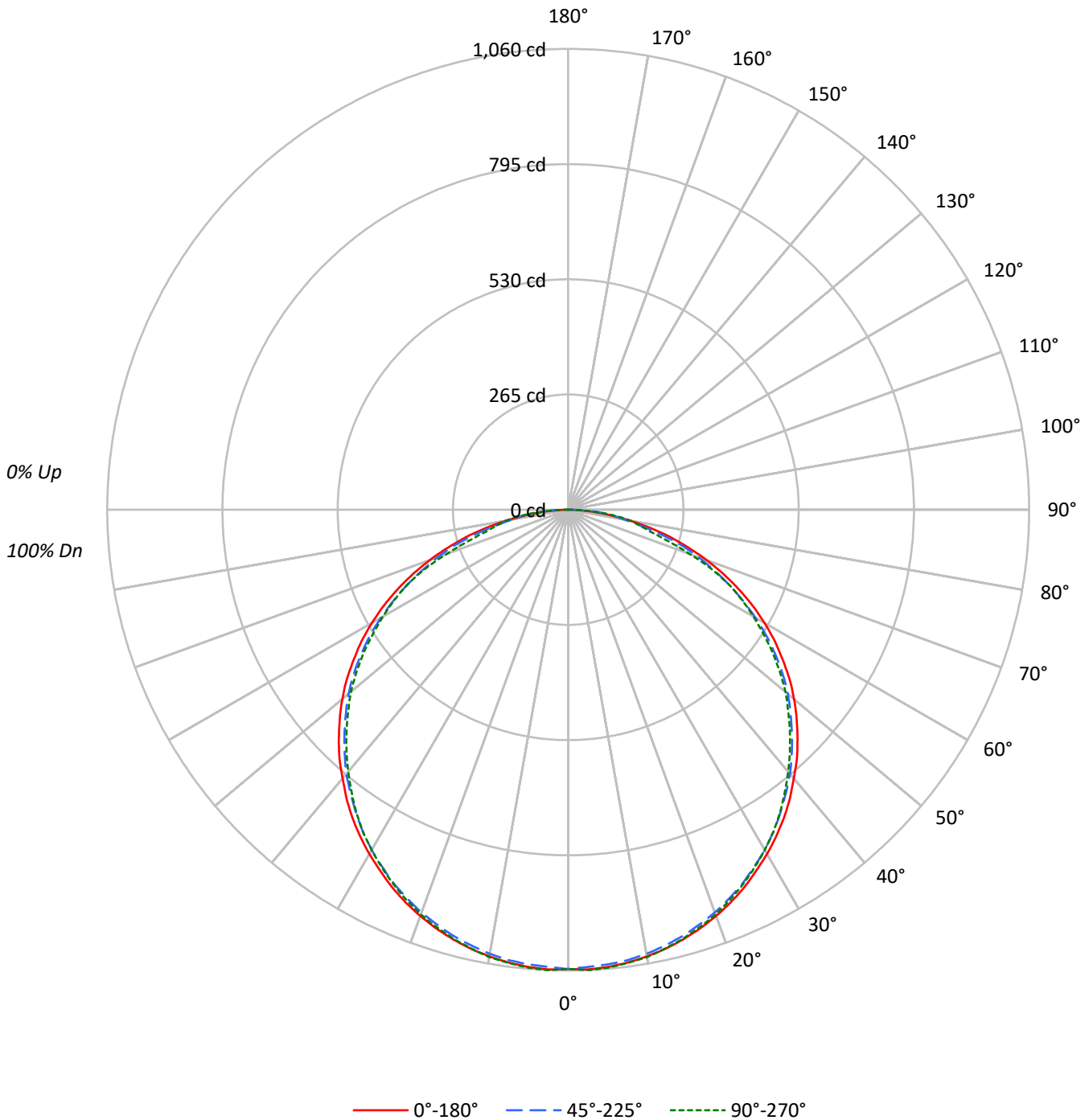
Lumens per Lamp: N/A
Luminaire Lumens: 3164.9 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.4
Input Voltage (V): NR
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

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Luminous Intensity Polar Plot





TEST NUMBER: P184360

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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 | 106 | 101 | 97 | 93 | 97 | 94 | 90 | 93 | 90 | 88 | 89 | 87 | 85 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 78 | 74 | 71 | 69 |
| 3 | 89 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 57 |
| 4 | 82 | 69 | 60 | 54 | 79 | 68 | 60 | 53 | 66 | 58 | 52 | 63 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 39 | 37 |
| 7 | 64 | 50 | 41 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 41 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2843 | 2843 | 2843 |
| 5° | 2845 | 2814 | 2831 |
| 10° | 2838 | 2791 | 2806 |
| 15° | 2831 | 2764 | 2771 |
| 20° | 2822 | 2735 | 2737 |
| 25° | 2812 | 2706 | 2697 |
| 30° | 2801 | 2672 | 2655 |
| 35° | 2793 | 2631 | 2609 |
| 40° | 2776 | 2595 | 2550 |
| 45° | 2769 | 2545 | 2495 |
| 50° | 2757 | 2497 | 2441 |
| 55° | 2727 | 2424 | 2358 |
| 60° | 2688 | 2321 | 2255 |
| 65° | 2614 | 2182 | 2142 |
| 70° | 2489 | 2021 | 1834 |
| 75° | 2310 | 1750 | 1479 |
| 80° | 1939 | 1348 | 1451 |
| 85° | 1328 | 1097 | 988 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.2 | 3.2 |
| 10°-20° | 287.8 | 9.1 |
| 20°-30° | 438.7 | 13.9 |
| 30°-40° | 534.4 | 16.9 |
| 40°-50° | 564.1 | 17.8 |
| 50°-60° | 522.7 | 16.5 |
| 60°-70° | 408.6 | 12.9 |
| 70°-80° | 235.0 | 7.4 |
| 80°-90° | 73.4 | 2.3 |
| 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° | 826.6 | 26.1 |
| 0°-40° | 1361.0 | 43.0 |
| 0°-60° | 2447.8 | 77.3 |
| 0°-90° | 3164.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3164.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1056 | 1056 | 1056 | 1056 | 1056 | |
| 5° | 1056 | 1054 | 1050 | 1054 | 1057 | 100 |
| 15° | 1023 | 1020 | 1016 | 1019 | 1021 | 289 |
| 25° | 958 | 954 | 949 | 950 | 951 | 442 |
| 35° | 865 | 859 | 851 | 849 | 850 | 541 |
| 45° | 746 | 741 | 728 | 722 | 721 | 575 |
| 55° | 602 | 597 | 582 | 574 | 574 | 539 |
| 65° | 432 | 424 | 408 | 407 | 409 | 427 |
| 75° | 243 | 232 | 224 | 200 | 195 | 255 |
| 85° | 55 | 60 | 71 | 68 | 69 | 67 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P184360

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1056.4 | 1056.4 | 1056.4 | 1056.4 | 1056.4 |
| 2.5° | 1058.4 | 1057.3 | 1052.6 | 1057.3 | 1060.2 |
| 5° | 1055.5 | 1054.5 | 1049.7 | 1054.5 | 1057.3 |
| 7.5° | 1050.7 | 1049.7 | 1045.0 | 1049.7 | 1051.6 |
| 10° | 1043.1 | 1041.1 | 1037.3 | 1042.1 | 1045.0 |
| 12.5° | 1034.5 | 1031.6 | 1026.9 | 1031.6 | 1033.5 |
| 15° | 1023.1 | 1020.2 | 1015.5 | 1019.2 | 1021.2 |
| 17.5° | 1009.7 | 1006.8 | 1001.1 | 1005.0 | 1006.8 |
| 20° | 994.5 | 991.6 | 985.9 | 988.8 | 990.6 |
| 22.5° | 977.4 | 973.5 | 967.8 | 968.7 | 971.6 |
| 25° | 958.2 | 954.4 | 948.8 | 949.7 | 950.7 |
| 27.5° | 936.3 | 932.6 | 925.9 | 926.8 | 927.8 |
| 30° | 914.5 | 910.7 | 903.9 | 903.0 | 903.9 |
| 32.5° | 890.6 | 885.8 | 878.3 | 876.3 | 878.3 |
| 35° | 865.0 | 859.3 | 850.6 | 848.7 | 849.7 |
| 37.5° | 837.3 | 832.6 | 822.1 | 819.3 | 818.2 |
| 40° | 806.8 | 803.0 | 793.5 | 787.8 | 786.9 |
| 42.5° | 778.2 | 772.5 | 761.1 | 756.3 | 754.5 |
| 45° | 745.9 | 741.2 | 727.8 | 722.1 | 721.1 |
| 47.5° | 712.5 | 706.8 | 693.5 | 687.7 | 685.9 |
| 50° | 678.2 | 672.5 | 659.2 | 651.5 | 652.5 |
| 52.5° | 642.0 | 635.4 | 622.0 | 614.4 | 613.4 |
| 55° | 602.0 | 597.2 | 581.9 | 574.4 | 574.4 |
| 57.5° | 563.9 | 556.3 | 541.0 | 532.5 | 532.5 |
| 60° | 521.1 | 512.5 | 497.3 | 489.6 | 491.5 |
| 62.5° | 478.2 | 470.6 | 452.5 | 448.6 | 451.6 |
| 65° | 432.5 | 424.0 | 407.7 | 406.7 | 408.6 |
| 67.5° | 385.7 | 376.3 | 362.0 | 361.0 | 357.2 |
| 70° | 338.1 | 328.6 | 319.2 | 306.7 | 297.2 |
| 72.5° | 289.6 | 282.0 | 274.3 | 249.6 | 241.1 |
| 75° | 242.9 | 231.5 | 223.8 | 200.0 | 195.3 |
| 77.5° | 192.4 | 187.7 | 171.5 | 163.0 | 167.7 |
| 80° | 142.9 | 145.7 | 130.6 | 140.9 | 146.7 |
| 82.5° | 96.2 | 100.0 | 104.8 | 112.5 | 111.4 |
| 85° | 55.3 | 60.0 | 71.4 | 67.6 | 68.6 |
| 87.5° | 23.8 | 29.6 | 30.4 | 29.6 | 30.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)