

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: P184368

Luminaire Tested: **ENW/ENC-24-2-LD1-25-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184368
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ENW/ENC-24-2-LD1-25-40-CA125-UNV-EDC1
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

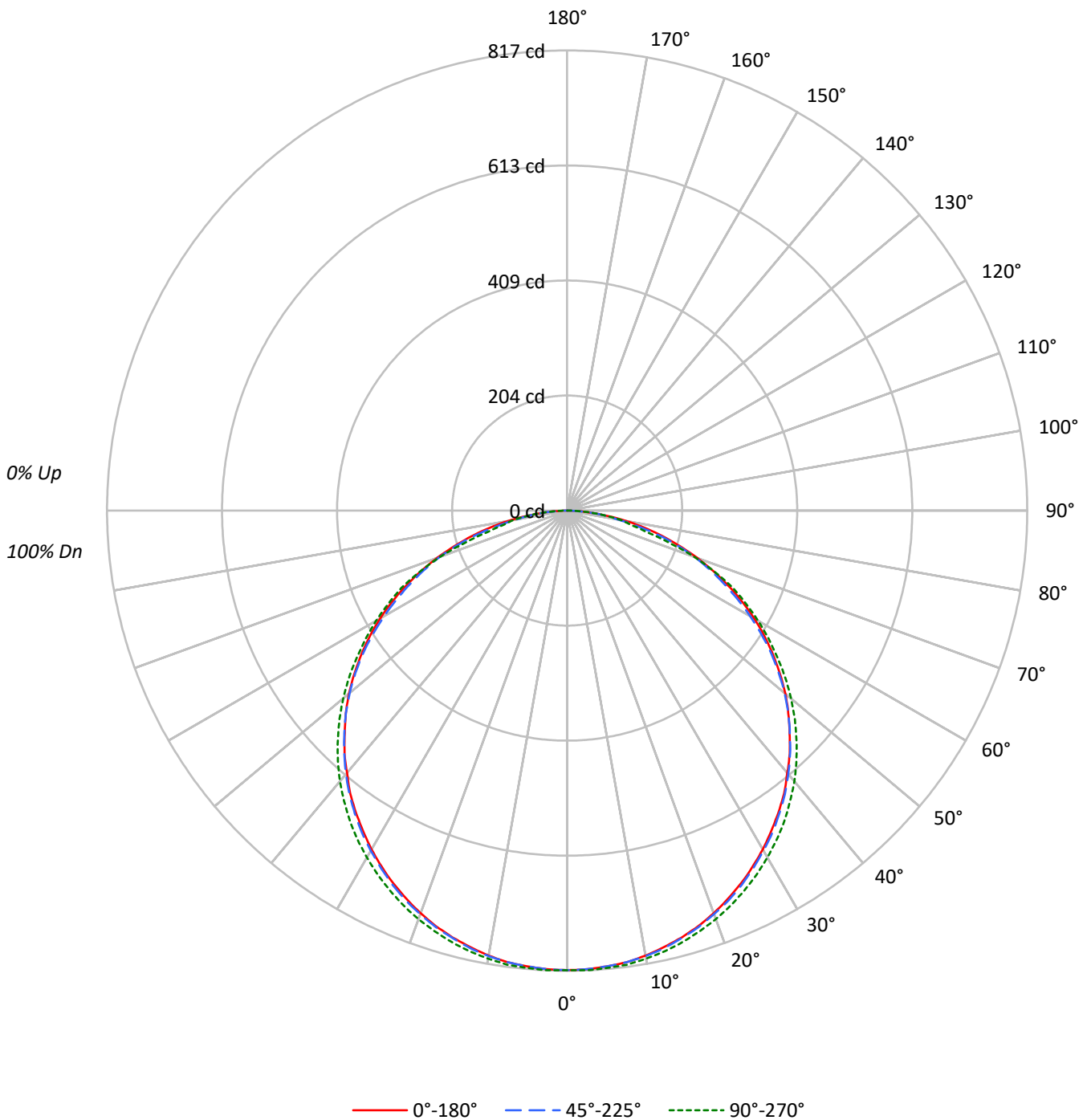
Lumens per Lamp: N/A
Luminaire Lumens: 2417.2 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 25.4
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





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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 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 85 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2196 | 2196 | 2196 |
| 5° | 2185 | 2181 | 2192 |
| 10° | 2173 | 2167 | 2188 |
| 15° | 2157 | 2148 | 2180 |
| 20° | 2140 | 2129 | 2171 |
| 25° | 2120 | 2108 | 2160 |
| 30° | 2098 | 2082 | 2148 |
| 35° | 2076 | 2056 | 2134 |
| 40° | 2050 | 2026 | 2115 |
| 45° | 2024 | 1988 | 2087 |
| 50° | 1999 | 1946 | 2050 |
| 55° | 1954 | 1886 | 1998 |
| 60° | 1900 | 1799 | 1941 |
| 65° | 1814 | 1699 | 1867 |
| 70° | 1700 | 1588 | 1661 |
| 75° | 1532 | 1378 | 1266 |
| 80° | 1288 | 1018 | 1177 |
| 85° | 796 | 707 | 831 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.4 | 3.2 |
| 10°-20° | 222.3 | 9.2 |
| 20°-30° | 338.9 | 14.0 |
| 30°-40° | 413.1 | 17.1 |
| 40°-50° | 434.6 | 18.0 |
| 50°-60° | 398.9 | 16.5 |
| 60°-70° | 309.3 | 12.8 |
| 70°-80° | 174.4 | 7.2 |
| 80°-90° | 48.3 | 2.0 |
| 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° | 638.6 | 26.4 |
| 0°-40° | 1051.7 | 43.5 |
| 0°-60° | 1885.1 | 78.0 |
| 0°-90° | 2417.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2417.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 816 | 816 | 816 | 816 | 816 | |
| 5° | 812 | 812 | 812 | 815 | 815 | 77 |
| 15° | 785 | 785 | 786 | 790 | 793 | 221 |
| 25° | 730 | 730 | 733 | 740 | 744 | 337 |
| 35° | 654 | 655 | 657 | 666 | 672 | 409 |
| 45° | 558 | 559 | 559 | 568 | 576 | 431 |
| 55° | 446 | 444 | 442 | 448 | 456 | 399 |
| 65° | 316 | 311 | 307 | 315 | 325 | 312 |
| 75° | 175 | 173 | 168 | 150 | 144 | 185 |
| 85° | 40 | 40 | 41 | 41 | 42 | 50 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P184368

CATALOG NUMBER: ENW/ENC-24-2-LD1-25-40-CA125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 816.0 | 816.0 | 816.0 | 816.0 | 816.0 |
| 2.5° | 815.1 | 815.1 | 815.1 | 816.9 | 816.9 |
| 5° | 812.3 | 812.3 | 812.3 | 815.1 | 815.1 |
| 7.5° | 808.7 | 808.7 | 808.7 | 811.4 | 813.3 |
| 10° | 802.2 | 802.2 | 803.1 | 805.9 | 807.7 |
| 12.5° | 793.9 | 793.9 | 795.8 | 799.5 | 801.3 |
| 15° | 784.7 | 784.7 | 785.7 | 790.3 | 793.0 |
| 17.5° | 773.7 | 772.8 | 775.5 | 780.1 | 782.9 |
| 20° | 760.8 | 759.9 | 762.7 | 767.3 | 771.9 |
| 22.5° | 746.1 | 746.1 | 748.9 | 754.4 | 759.0 |
| 25° | 730.5 | 730.5 | 733.2 | 739.7 | 744.3 |
| 27.5° | 713.0 | 713.0 | 715.7 | 724.0 | 728.6 |
| 30° | 694.6 | 695.5 | 697.3 | 706.5 | 711.1 |
| 32.5° | 674.3 | 676.2 | 678.0 | 687.2 | 692.7 |
| 35° | 654.1 | 655.0 | 656.9 | 666.1 | 672.5 |
| 37.5° | 632.9 | 632.0 | 634.8 | 644.0 | 650.4 |
| 40° | 608.1 | 609.0 | 610.9 | 619.1 | 627.4 |
| 42.5° | 585.1 | 584.2 | 586.0 | 594.3 | 602.6 |
| 45° | 558.4 | 559.3 | 559.3 | 567.6 | 575.9 |
| 47.5° | 532.7 | 532.7 | 532.7 | 540.0 | 548.3 |
| 50° | 506.0 | 504.1 | 504.1 | 510.6 | 518.9 |
| 52.5° | 476.5 | 474.7 | 473.8 | 481.1 | 488.5 |
| 55° | 446.2 | 444.3 | 442.5 | 448.0 | 456.3 |
| 57.5° | 415.8 | 413.1 | 409.4 | 414.9 | 424.1 |
| 60° | 383.7 | 379.9 | 375.3 | 381.8 | 391.9 |
| 62.5° | 350.5 | 345.9 | 341.3 | 348.7 | 357.9 |
| 65° | 315.5 | 310.9 | 307.3 | 314.7 | 324.7 |
| 67.5° | 280.6 | 276.0 | 274.1 | 279.7 | 283.3 |
| 70° | 245.7 | 241.9 | 241.1 | 240.1 | 240.1 |
| 72.5° | 209.7 | 207.0 | 205.1 | 195.9 | 190.5 |
| 75° | 174.8 | 172.9 | 167.5 | 149.9 | 144.5 |
| 77.5° | 140.7 | 138.9 | 127.9 | 114.1 | 115.0 |
| 80° | 106.7 | 104.9 | 92.0 | 94.7 | 97.5 |
| 82.5° | 72.7 | 70.9 | 68.1 | 69.0 | 69.0 |
| 85° | 40.5 | 39.5 | 41.4 | 41.4 | 42.3 |
| 87.5° | 16.5 | 16.5 | 17.5 | 18.4 | 19.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)