

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: P184353

Luminaire Tested: **ENW/ENC-12-4-LD1-25-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184353
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32840)
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-LD1-25-40-CP125-UNV-EDC1
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: CLUNVCC161023VD010

Summary

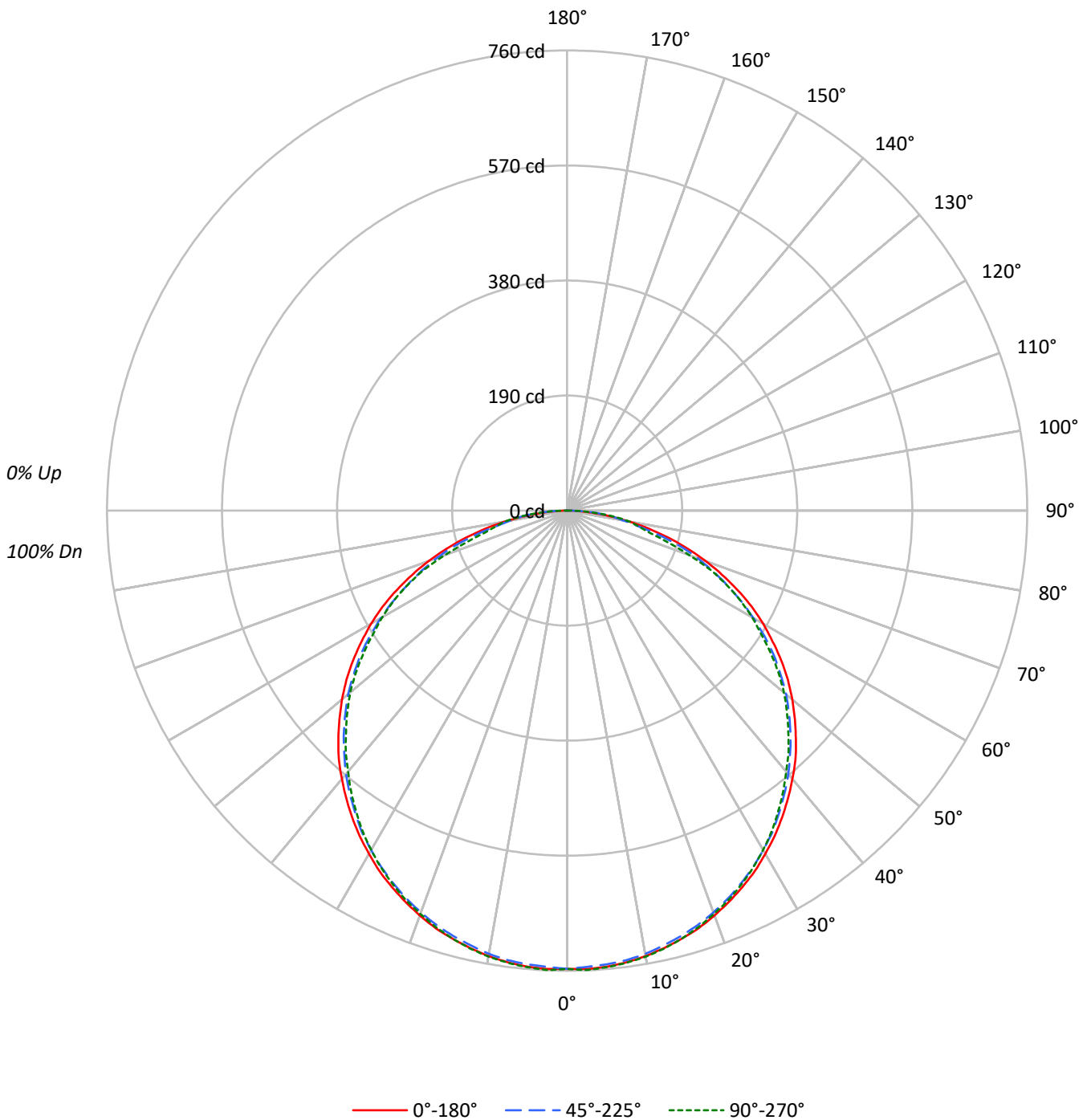
Lumens per Lamp: N/A
Luminaire Lumens: 2267.5 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 25
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 | 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° | 2037 | 2037 | 2037 |
| 5° | 2038 | 2017 | 2027 |
| 10° | 2032 | 2000 | 2008 |
| 15° | 2025 | 1980 | 1986 |
| 20° | 2019 | 1959 | 1958 |
| 25° | 2012 | 1937 | 1932 |
| 30° | 2004 | 1914 | 1902 |
| 35° | 1998 | 1887 | 1864 |
| 40° | 1991 | 1858 | 1824 |
| 45° | 1984 | 1825 | 1787 |
| 50° | 1973 | 1788 | 1749 |
| 55° | 1956 | 1736 | 1685 |
| 60° | 1929 | 1658 | 1618 |
| 65° | 1878 | 1559 | 1527 |
| 70° | 1790 | 1448 | 1324 |
| 75° | 1642 | 1239 | 1065 |
| 80° | 1402 | 965 | 1039 |
| 85° | 982 | 780 | 705 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.8 | 3.2 |
| 10°-20° | 206.2 | 9.1 |
| 20°-30° | 314.4 | 13.9 |
| 30°-40° | 382.9 | 16.9 |
| 40°-50° | 404.2 | 17.8 |
| 50°-60° | 374.3 | 16.5 |
| 60°-70° | 292.6 | 12.9 |
| 70°-80° | 168.1 | 7.4 |
| 80°-90° | 53.0 | 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° | 592.4 | 26.1 |
| 0°-40° | 975.3 | 43.0 |
| 0°-60° | 1753.7 | 77.3 |
| 0°-90° | 2267.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2267.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 757 | 757 | 757 | 757 | 757 | |
| 5° | 756 | 755 | 752 | 756 | 757 | 72 |
| 15° | 732 | 731 | 727 | 731 | 732 | 207 |
| 25° | 686 | 684 | 679 | 681 | 681 | 316 |
| 35° | 619 | 616 | 610 | 608 | 607 | 387 |
| 45° | 534 | 531 | 522 | 518 | 516 | 412 |
| 55° | 432 | 426 | 417 | 412 | 410 | 386 |
| 65° | 311 | 303 | 291 | 290 | 291 | 307 |
| 75° | 173 | 166 | 158 | 143 | 141 | 183 |
| 85° | 41 | 44 | 51 | 49 | 49 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P184353

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 756.9 | 756.9 | 756.9 | 756.9 | 756.9 |
| 2.5° | 757.8 | 757.8 | 754.2 | 758.7 | 759.5 |
| 5° | 756.1 | 755.1 | 752.4 | 756.1 | 756.9 |
| 7.5° | 752.4 | 751.6 | 748.9 | 752.4 | 753.3 |
| 10° | 747.1 | 746.2 | 743.5 | 747.1 | 748.0 |
| 12.5° | 740.0 | 739.1 | 735.6 | 739.1 | 740.9 |
| 15° | 731.9 | 731.1 | 727.4 | 731.1 | 731.9 |
| 17.5° | 723.1 | 721.3 | 717.7 | 721.3 | 721.3 |
| 20° | 711.5 | 709.7 | 706.1 | 708.8 | 708.8 |
| 22.5° | 699.0 | 697.2 | 693.7 | 695.5 | 696.3 |
| 25° | 685.7 | 683.9 | 679.4 | 681.2 | 681.2 |
| 27.5° | 671.4 | 668.7 | 664.3 | 665.2 | 665.2 |
| 30° | 654.4 | 651.8 | 647.4 | 648.3 | 647.4 |
| 32.5° | 637.6 | 634.9 | 630.5 | 628.6 | 628.6 |
| 35° | 618.8 | 616.2 | 610.0 | 608.2 | 607.3 |
| 37.5° | 599.3 | 595.7 | 589.6 | 586.8 | 585.9 |
| 40° | 578.8 | 574.4 | 568.2 | 565.4 | 562.8 |
| 42.5° | 558.3 | 553.0 | 545.0 | 541.3 | 541.3 |
| 45° | 534.3 | 530.7 | 521.9 | 518.2 | 516.5 |
| 47.5° | 510.2 | 506.7 | 496.9 | 493.3 | 492.4 |
| 50° | 485.3 | 481.8 | 472.0 | 467.5 | 467.5 |
| 52.5° | 459.5 | 455.1 | 444.4 | 439.9 | 439.9 |
| 55° | 431.9 | 426.5 | 416.7 | 412.3 | 410.5 |
| 57.5° | 402.5 | 399.0 | 386.5 | 382.0 | 380.2 |
| 60° | 374.0 | 367.7 | 355.3 | 350.9 | 352.6 |
| 62.5° | 343.7 | 336.6 | 324.1 | 320.6 | 323.2 |
| 65° | 310.8 | 302.7 | 291.2 | 290.3 | 291.2 |
| 67.5° | 276.9 | 269.8 | 260.0 | 258.3 | 256.4 |
| 70° | 243.1 | 236.0 | 228.8 | 219.0 | 214.5 |
| 72.5° | 208.4 | 201.3 | 195.9 | 179.0 | 173.6 |
| 75° | 172.7 | 166.5 | 158.5 | 143.4 | 140.7 |
| 77.5° | 138.1 | 132.7 | 121.1 | 117.6 | 120.2 |
| 80° | 103.3 | 103.3 | 93.5 | 101.5 | 105.1 |
| 82.5° | 70.4 | 70.4 | 75.7 | 82.0 | 80.1 |
| 85° | 40.9 | 43.6 | 50.8 | 48.9 | 48.9 |
| 87.5° | 17.8 | 22.2 | 22.2 | 22.2 | 23.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)