

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: P490114

Luminaire Tested: **CLP-12-2-INS-P12125-LD4-2HI-20-120-EDD-90**

Issue Date: 3/12/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P490114  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: CLP-12-2-INS-P12125-LD4-2HI-20-120-EDD-90  
Description: 1X2 CLP LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

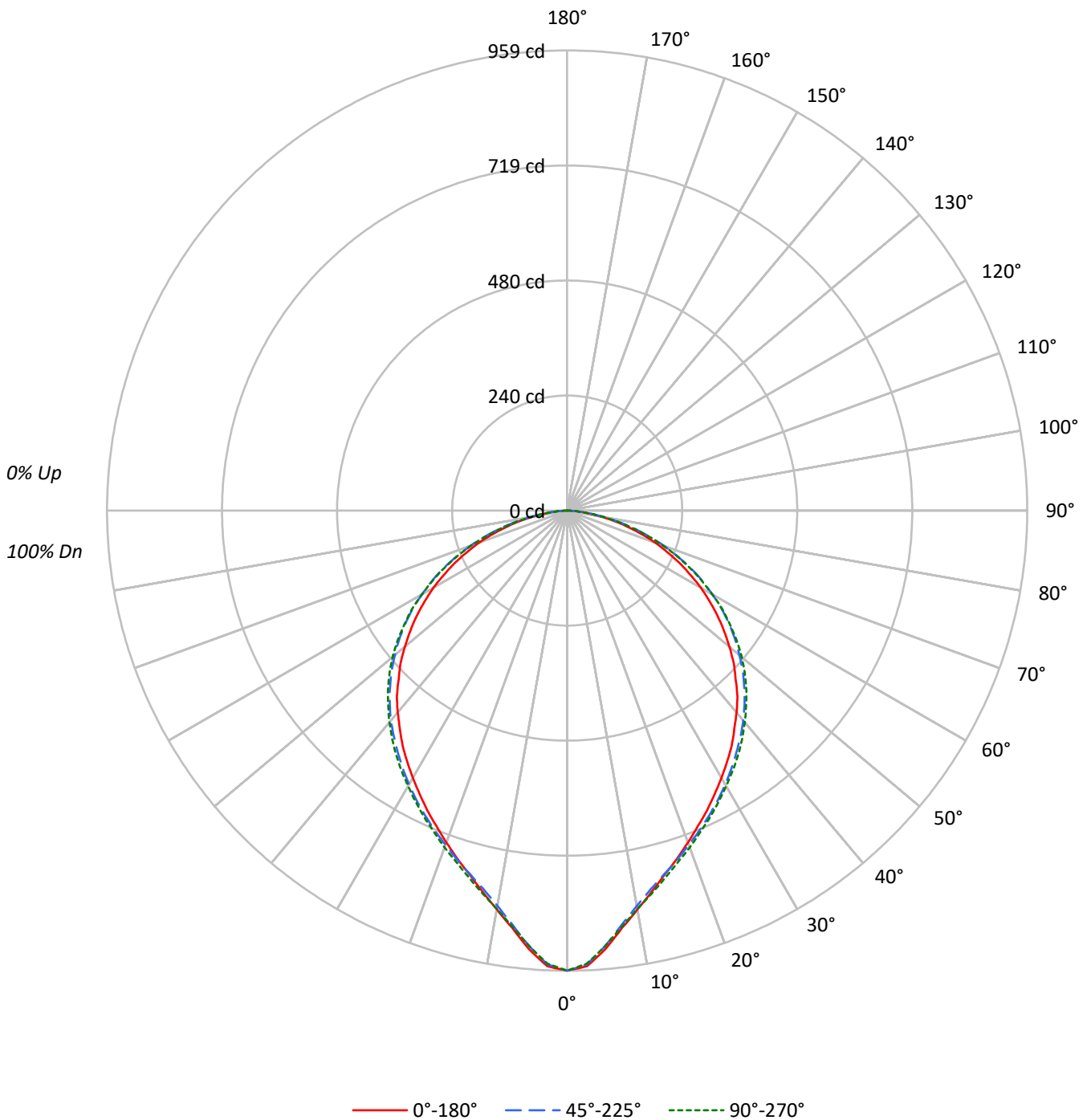
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2227.1 lumens  
Efficiency: N/A  
Efficacy: 51.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 43.2  
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

TEST NUMBER: P490114

CATALOG NUMBER: CLP-12-2-INS-P12125-LD4-2HI-20-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P490114

CATALOG NUMBER: CLP-12-2-INS-P12125-LD4-2HI-20-120-EDD-90

**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 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 72  | 70  |
| 3   | 90  | 80  | 72  | 65  | 88  | 78  | 71  | 65  | 75  | 69  | 64  | 73  | 67  | 62  | 70  | 65  | 61  | 59  |
| 4   | 83  | 71  | 62  | 55  | 81  | 70  | 61  | 55  | 67  | 60  | 54  | 65  | 59  | 54  | 63  | 57  | 53  | 51  |
| 5   | 76  | 63  | 54  | 48  | 74  | 62  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 46  | 56  | 51  | 46  | 44  |
| 6   | 70  | 57  | 48  | 42  | 68  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 40  | 38  |
| 7   | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 34  |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 32  | 30  |
| 9   | 57  | 43  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 40  | 34  | 29  | 27  |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5160 | 5160 | 5160 |
| 5°  | 4955 | 4920 | 4920 |
| 10° | 4611 | 4569 | 4605 |
| 15° | 4376 | 4368 | 4411 |
| 20° | 4215 | 4246 | 4278 |
| 25° | 4094 | 4162 | 4186 |
| 30° | 3996 | 4094 | 4120 |
| 35° | 3928 | 4042 | 4083 |
| 40° | 3858 | 4014 | 4048 |
| 45° | 3778 | 3975 | 4023 |
| 50° | 3695 | 3926 | 3978 |
| 55° | 3592 | 3869 | 3885 |
| 60° | 3463 | 3762 | 3754 |
| 65° | 3283 | 3618 | 3594 |
| 70° | 3065 | 3374 | 3333 |
| 75° | 2705 | 2990 | 2959 |
| 80° | 2197 | 2436 | 2315 |
| 85° | 1525 | 1556 | 1494 |



TEST NUMBER: P490114

CATALOG NUMBER: CLP-12-2-INS-P12125-LD4-2HI-20-120-EDD-90

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 84.7   | 3.8       |
| 10°-20°   | 221.9  | 10.0      |
| 20°-30°   | 322.7  | 14.5      |
| 30°-40°   | 384.0  | 17.2      |
| 40°-50°   | 398.7  | 17.9      |
| 50°-60°   | 361.2  | 16.2      |
| 60°-70°   | 272.6  | 12.2      |
| 70°-80°   | 148.5  | 6.7       |
| 80°-90°   | 32.6   | 1.5       |
| 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°    | 629.4  | 28.3      |
| 0°-40°    | 1013.4 | 45.5      |
| 0°-60°    | 1773.4 | 79.6      |
| 0°-90°    | 2227.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2227.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 959 | 959   | 959 | 959   | 959 |      |
| 5°  | 917 | 915   | 911 | 910   | 911 | 85   |
| 15° | 785 | 783   | 784 | 789   | 792 | 222  |
| 25° | 690 | 695   | 701 | 706   | 705 | 318  |
| 35° | 598 | 605   | 615 | 625   | 622 | 374  |
| 45° | 496 | 505   | 522 | 528   | 528 | 384  |
| 55° | 383 | 392   | 412 | 415   | 414 | 342  |
| 65° | 258 | 265   | 284 | 284   | 282 | 255  |
| 75° | 130 | 135   | 144 | 145   | 142 | 139  |
| 85° | 25  | 25    | 25  | 25    | 24  | 31   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



TEST NUMBER: P490114

CATALOG NUMBER: CLP-12-2-INS-P12125-LD4-2HI-20-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 |
| 2.5°  | 950.4 | 949.5 | 946.3 | 945.1 | 944.9 |
| 5°    | 917.1 | 915.0 | 910.6 | 910.2 | 910.6 |
| 7.5°  | 877.3 | 874.9 | 870.6 | 872.3 | 874.5 |
| 10°   | 843.8 | 837.8 | 836.1 | 838.5 | 842.6 |
| 12.5° | 813.8 | 809.1 | 807.6 | 813.8 | 816.7 |
| 15°   | 785.3 | 783.4 | 783.9 | 789.2 | 791.6 |
| 17.5° | 760.7 | 759.5 | 762.6 | 766.7 | 767.9 |
| 20°   | 736.0 | 738.4 | 741.3 | 745.6 | 747.0 |
| 22.5° | 711.8 | 716.3 | 721.1 | 726.9 | 725.0 |
| 25°   | 689.5 | 695.3 | 700.8 | 706.5 | 704.9 |
| 27.5° | 665.8 | 672.5 | 680.2 | 686.4 | 684.0 |
| 30°   | 643.0 | 651.4 | 658.8 | 666.5 | 662.9 |
| 32.5° | 620.5 | 628.4 | 637.3 | 646.6 | 642.6 |
| 35°   | 597.8 | 604.9 | 615.2 | 624.6 | 621.5 |
| 37.5° | 572.6 | 581.5 | 593.2 | 601.3 | 599.2 |
| 40°   | 549.1 | 557.3 | 571.4 | 576.7 | 576.2 |
| 42.5° | 525.4 | 532.1 | 547.0 | 552.9 | 552.0 |
| 45°   | 496.4 | 505.3 | 522.3 | 528.0 | 528.5 |
| 47.5° | 470.8 | 478.2 | 496.4 | 501.0 | 501.9 |
| 50°   | 441.3 | 450.7 | 468.9 | 474.4 | 475.1 |
| 52.5° | 412.3 | 422.4 | 441.1 | 444.9 | 445.6 |
| 55°   | 382.8 | 391.9 | 412.3 | 415.2 | 414.0 |
| 57.5° | 351.9 | 363.0 | 381.7 | 383.1 | 384.3 |
| 60°   | 321.7 | 331.3 | 349.5 | 351.5 | 348.8 |
| 62.5° | 288.9 | 298.8 | 317.4 | 317.9 | 315.8 |
| 65°   | 257.8 | 265.2 | 284.1 | 283.7 | 282.2 |
| 67.5° | 225.2 | 234.3 | 248.2 | 248.7 | 247.5 |
| 70°   | 194.8 | 201.0 | 214.4 | 214.7 | 211.8 |
| 72.5° | 162.0 | 168.7 | 179.4 | 178.0 | 177.3 |
| 75°   | 130.1 | 135.4 | 143.8 | 144.7 | 142.3 |
| 77.5° | 100.9 | 104.7 | 110.9 | 110.2 | 107.6 |
| 80°   | 70.9  | 74.0  | 78.6  | 77.6  | 74.7  |
| 82.5° | 45.3  | 47.2  | 50.1  | 48.9  | 47.7  |
| 85°   | 24.7  | 24.9  | 25.2  | 24.9  | 24.2  |
| 87.5° | 9.1   | 9.3   | 9.3   | 9.1   | 8.4   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)