

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: P490181

Luminaire Tested: **CLP-12-4-INS-A12125-LD4-1STD-35-120-EDD**

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: P490181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLP-12-4-INS-A12125-LD4-1STD-35-120-EDD
Description: 1X4 CLP LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

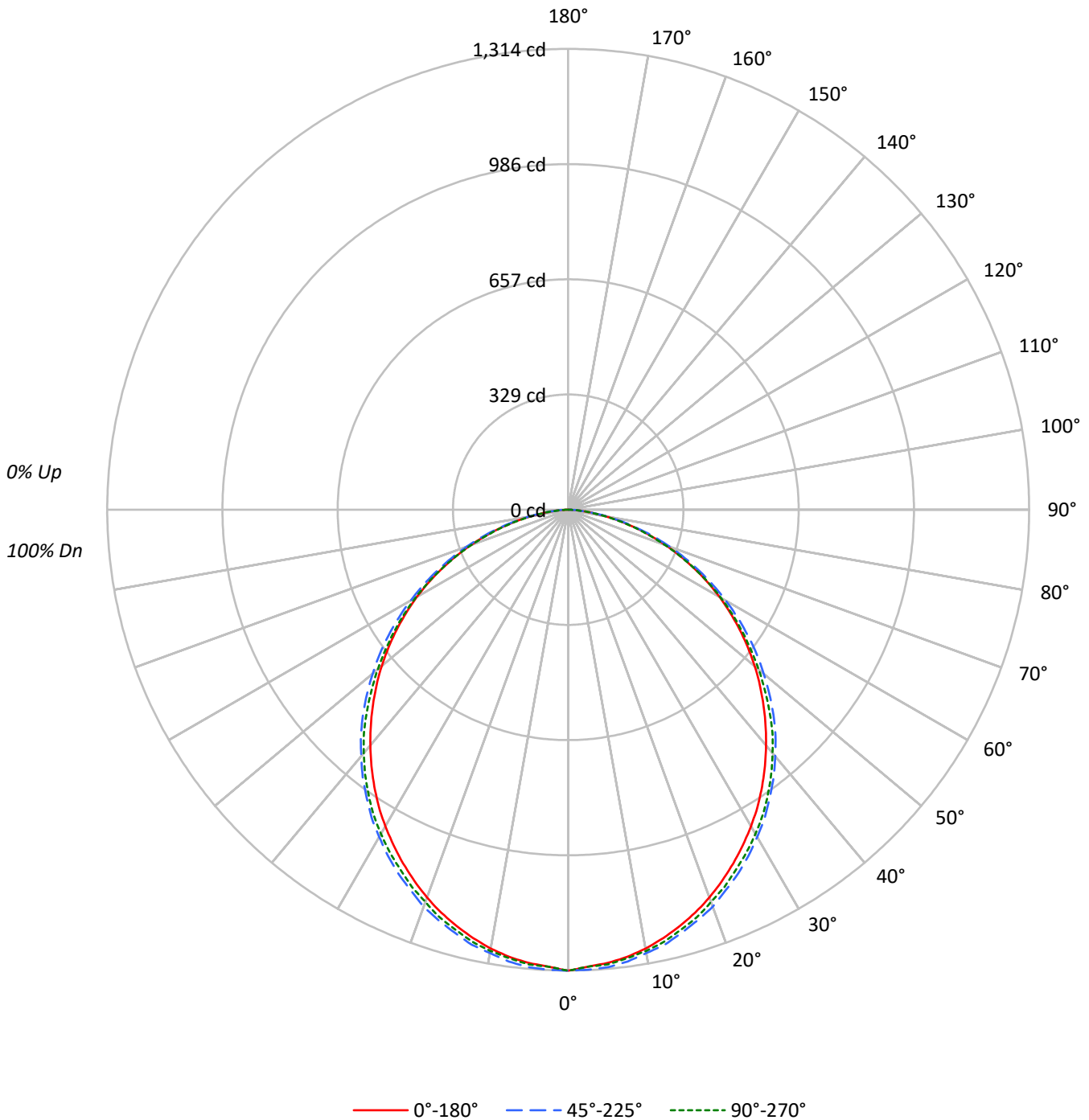
Lumens per Lamp: N/A
Luminaire Lumens: 3455.4 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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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CATALOG NUMBER: CLP-12-4-INS-A12125-LD4-1STD-35-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P490181

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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 | 105 | 100 | 97 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 88 | 87 | 85 |
| 2 | 99 | 91 | 85 | 79 | 97 | 90 | 83 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 70 | 64 | 73 | 68 | 63 | 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 | 75 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 45 |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 47 | 41 | 52 | 46 | 41 | 39 |
| 7 | 66 | 52 | 44 | 38 | 64 | 51 | 43 | 37 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 |
| 8 | 61 | 48 | 39 | 34 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 45 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3537 | 3537 | 3537 |
| 5° | 3504 | 3537 | 3515 |
| 10° | 3472 | 3507 | 3490 |
| 15° | 3424 | 3479 | 3455 |
| 20° | 3370 | 3450 | 3408 |
| 25° | 3304 | 3400 | 3361 |
| 30° | 3237 | 3347 | 3317 |
| 35° | 3165 | 3290 | 3259 |
| 40° | 3083 | 3224 | 3183 |
| 45° | 2996 | 3147 | 3087 |
| 50° | 2906 | 3046 | 2966 |
| 55° | 2800 | 2931 | 2842 |
| 60° | 2681 | 2793 | 2706 |
| 65° | 2527 | 2623 | 2528 |
| 70° | 2325 | 2419 | 2299 |
| 75° | 2047 | 2140 | 2016 |
| 80° | 1664 | 1736 | 1644 |
| 85° | 1158 | 1235 | 1204 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 123.8 | 3.6 |
| 10°-20° | 350.8 | 10.2 |
| 20°-30° | 523.2 | 15.1 |
| 30°-40° | 619.9 | 17.9 |
| 40°-50° | 627.3 | 18.2 |
| 50°-60° | 547.8 | 15.9 |
| 60°-70° | 400.3 | 11.6 |
| 70°-80° | 213.0 | 6.2 |
| 80°-90° | 49.2 | 1.4 |
| 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° | 997.7 | 28.9 |
| 0°-40° | 1617.7 | 46.8 |
| 0°-60° | 2792.8 | 80.8 |
| 0°-90° | 3455.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3455.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1314 | 1314 | 1314 | 1314 | 1314 | |
| 5° | 1297 | 1300 | 1309 | 1312 | 1301 | 123 |
| 15° | 1229 | 1237 | 1249 | 1256 | 1240 | 346 |
| 25° | 1113 | 1127 | 1145 | 1149 | 1132 | 513 |
| 35° | 963 | 978 | 1002 | 1008 | 992 | 602 |
| 45° | 787 | 801 | 827 | 828 | 811 | 607 |
| 55° | 597 | 609 | 625 | 616 | 606 | 534 |
| 65° | 397 | 405 | 412 | 404 | 397 | 393 |
| 75° | 197 | 201 | 206 | 198 | 194 | 209 |
| 85° | 38 | 38 | 40 | 40 | 39 | 48 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P490181

CATALOG NUMBER: CLP-12-4-INS-A12125-LD4-1STD-35-120-EDD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1314.3 | 1314.3 | 1314.3 | 1314.3 | 1314.3 |
| 2.5° | 1304.0 | 1308.3 | 1312.7 | 1314.6 | 1303.9 |
| 5° | 1297.2 | 1299.7 | 1309.4 | 1312.4 | 1301.3 |
| 7.5° | 1286.0 | 1289.7 | 1299.1 | 1300.5 | 1289.8 |
| 10° | 1270.6 | 1277.2 | 1283.5 | 1290.3 | 1277.3 |
| 12.5° | 1251.0 | 1259.9 | 1270.6 | 1271.9 | 1262.0 |
| 15° | 1229.0 | 1237.2 | 1248.9 | 1256.4 | 1240.1 |
| 17.5° | 1204.4 | 1212.3 | 1227.4 | 1228.7 | 1218.9 |
| 20° | 1176.8 | 1186.7 | 1204.8 | 1207.9 | 1190.2 |
| 22.5° | 1145.6 | 1158.9 | 1174.0 | 1177.0 | 1164.0 |
| 25° | 1112.9 | 1126.6 | 1145.2 | 1149.4 | 1132.0 |
| 27.5° | 1078.6 | 1091.8 | 1112.7 | 1115.8 | 1101.1 |
| 30° | 1041.9 | 1054.3 | 1077.3 | 1082.3 | 1067.4 |
| 32.5° | 1004.7 | 1017.0 | 1042.5 | 1046.7 | 1032.2 |
| 35° | 963.3 | 978.4 | 1001.5 | 1008.5 | 992.2 |
| 37.5° | 921.2 | 935.8 | 962.1 | 968.4 | 950.9 |
| 40° | 877.5 | 892.0 | 917.9 | 923.1 | 906.2 |
| 42.5° | 832.8 | 847.4 | 875.0 | 875.8 | 861.9 |
| 45° | 787.2 | 801.2 | 827.0 | 827.6 | 811.3 |
| 47.5° | 741.0 | 755.1 | 778.1 | 775.5 | 760.1 |
| 50° | 694.1 | 707.5 | 727.7 | 722.5 | 708.6 |
| 52.5° | 645.7 | 658.7 | 677.7 | 669.2 | 656.2 |
| 55° | 596.9 | 609.0 | 624.8 | 615.8 | 605.7 |
| 57.5° | 547.7 | 559.9 | 572.1 | 562.9 | 554.2 |
| 60° | 498.2 | 508.9 | 518.9 | 509.5 | 502.8 |
| 62.5° | 447.8 | 457.0 | 465.6 | 456.7 | 450.4 |
| 65° | 396.8 | 404.9 | 412.0 | 403.8 | 397.1 |
| 67.5° | 346.2 | 353.0 | 359.6 | 351.1 | 344.1 |
| 70° | 295.5 | 301.4 | 307.4 | 298.7 | 292.2 |
| 72.5° | 245.5 | 250.7 | 256.1 | 247.6 | 242.0 |
| 75° | 196.9 | 201.4 | 205.8 | 198.3 | 193.9 |
| 77.5° | 150.5 | 154.3 | 157.3 | 152.5 | 148.3 |
| 80° | 107.4 | 110.2 | 112.0 | 110.1 | 106.1 |
| 82.5° | 69.0 | 71.1 | 72.0 | 71.9 | 69.3 |
| 85° | 37.5 | 38.2 | 40.0 | 40.4 | 39.0 |
| 87.5° | 14.5 | 15.5 | 15.9 | 17.1 | 15.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)