

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: P580814

Luminaire Tested: **HVSL8-8-LD4-1LO-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: HVSL8-8-LD4-1LO-35-UNV-O-EDD
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

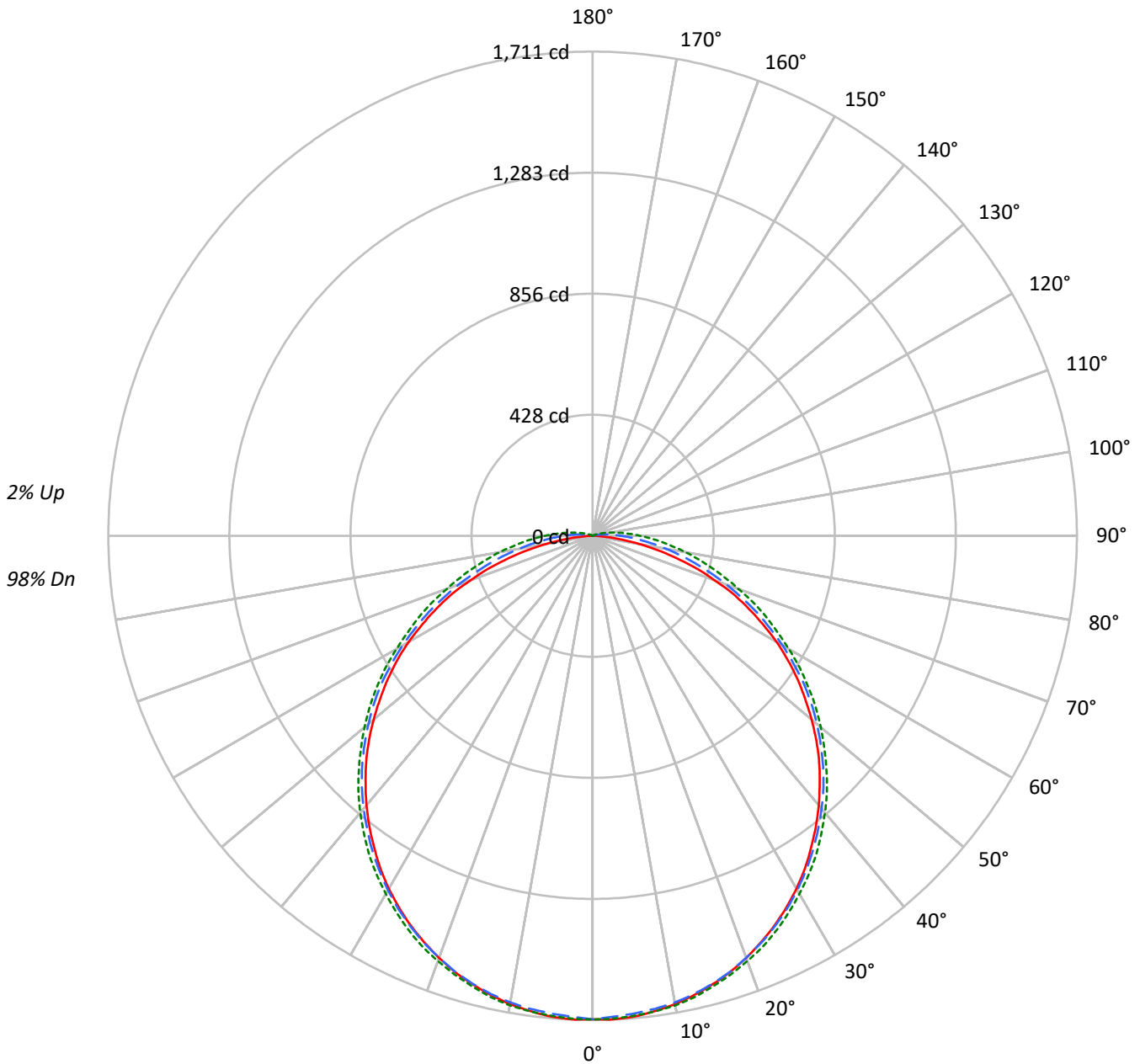
Lumens per Lamp: N/A
Luminaire Lumens: 5167.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 47.4
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

TEST NUMBER: P580814

CATALOG NUMBER: HVSL8-8-LD4-1LO-35-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580814

CATALOG NUMBER: HVSL8-8-LD4-1LO-35-UNV-O-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 105 | 105 | 105 | 101 | 101 | 101 | | | | 98 | | | | | | | | | | | | | | | | |
| 1 | 108 | 102 | 98 | 94 | 105 | 100 | 96 | 92 | 95 | 92 | 89 | 91 | 88 | 86 | 87 | 85 | 83 | | | | 81 | | | | | | | | | | | | | | | | |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 80 | 75 | 83 | 77 | 73 | 79 | 75 | 71 | 76 | 72 | 69 | | | | 67 | | | | | | | | | | | | | | | | |
| 3 | 89 | 78 | 69 | 63 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 64 | 59 | 67 | 62 | 58 | | | | 56 | | | | | | | | | | | | | | | | |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 52 | 65 | 57 | 52 | 62 | 56 | 51 | 60 | 54 | 50 | | | | 47 | | | | | | | | | | | | | | | | |
| 5 | 75 | 61 | 52 | 45 | 72 | 60 | 52 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | | | | 41 | | | | | | | | | | | | | | | | |
| 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 50 | 44 | 38 | 49 | 43 | 38 | | | | 36 | | | | | | | | | | | | | | | | |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 34 | | | | 32 | | | | | | | | | | | | | | | | |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | | | | 28 | | | | | | | | | | | | | | | | |
| 9 | 55 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | | | | 25 | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 25 | | | | 23 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3449 | 3449 | 3449 |
| 5° | 3449 | 3376 | 3375 |
| 10° | 3432 | 3320 | 3308 |
| 15° | 3408 | 3257 | 3227 |
| 20° | 3383 | 3186 | 3148 |
| 25° | 3352 | 3113 | 3067 |
| 30° | 3316 | 3035 | 2976 |
| 35° | 3268 | 2948 | 2886 |
| 40° | 3218 | 2857 | 2781 |
| 45° | 3165 | 2758 | 2668 |
| 50° | 3094 | 2642 | 2545 |
| 55° | 3019 | 2516 | 2411 |
| 60° | 2929 | 2349 | 2254 |
| 65° | 2775 | 2163 | 2098 |
| 70° | 2550 | 1942 | 1916 |
| 75° | 2224 | 1700 | 1752 |
| 80° | 1725 | 1463 | 1602 |
| 85° | 995 | 1226 | 1458 |



TEST NUMBER: P580814

CATALOG NUMBER: HVSL8-8-LD4-1LO-35-UNV-O-EDD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 161.7 | 3.1 |
| 10°-20° | 463.9 | 9.0 |
| 20°-30° | 703.9 | 13.6 |
| 30°-40° | 851.1 | 16.5 |
| 40°-50° | 888.0 | 17.2 |
| 50°-60° | 811.9 | 15.7 |
| 60°-70° | 632.9 | 12.2 |
| 70°-80° | 395.9 | 7.7 |
| 80°-90° | 179.8 | 3.5 |
| 90°-100° | 60.3 | 1.2 |
| 100°-110° | 15.1 | 0.3 |
| 110°-120° | 2.4 | 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° | 1329.5 | 25.7 |
| 0°-40° | 2180.5 | 42.2 |
| 0°-60° | 3880.5 | 75.1 |
| 0°-90° | 5089.2 | 98.5 |
| 90°-120° | 77.8 | 1.5 |
| 90°-150° | 77.8 | 1.5 |
| 90°-180° | 78.0 | 1.5 |
| 0°-180° | 5167.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1709 | 1709 | 1709 | 1709 | 1709 | |
| 5° | 1705 | 1702 | 1694 | 1702 | 1702 | 162 |
| 15° | 1640 | 1643 | 1639 | 1648 | 1648 | 463 |
| 25° | 1520 | 1521 | 1523 | 1536 | 1538 | 700 |
| 35° | 1346 | 1352 | 1357 | 1371 | 1377 | 842 |
| 45° | 1132 | 1142 | 1151 | 1163 | 1168 | 872 |
| 55° | 884 | 894 | 910 | 924 | 930 | 789 |
| 65° | 607 | 618 | 639 | 664 | 675 | 601 |
| 75° | 307 | 326 | 374 | 419 | 434 | 328 |
| 85° | 53 | 98 | 169 | 223 | 243 | 67 |
| 90° | 0 | 37 | 100 | 150 | 168 | 2 |
| 95° | 0 | 10 | 52 | 94 | 108 | 0 |
| 105° | 1 | 1 | 8 | 25 | 33 | 1 |
| 115° | 1 | 1 | 2 | 4 | 6 | 1 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P580814

CATALOG NUMBER: HVSL8-8-LD4-1LO-35-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1708.9 | 1708.9 | 1708.9 | 1708.9 | 1708.9 |
| 2.5° | 1710.9 | 1708.5 | 1700.9 | 1708.5 | 1708.1 |
| 5° | 1705.3 | 1702.1 | 1694.4 | 1702.5 | 1702.5 |
| 7.5° | 1694.0 | 1692.8 | 1686.0 | 1695.2 | 1695.2 |
| 10° | 1680.7 | 1680.3 | 1674.7 | 1684.8 | 1685.2 |
| 12.5° | 1662.2 | 1663.8 | 1658.6 | 1668.2 | 1669.5 |
| 15° | 1640.4 | 1643.3 | 1638.8 | 1648.1 | 1647.7 |
| 17.5° | 1616.7 | 1618.3 | 1615.1 | 1625.5 | 1625.1 |
| 20° | 1587.3 | 1589.3 | 1586.9 | 1597.7 | 1599.0 |
| 22.5° | 1554.6 | 1557.5 | 1557.1 | 1568.3 | 1571.6 |
| 25° | 1520.0 | 1521.2 | 1522.8 | 1535.7 | 1538.1 |
| 27.5° | 1481.7 | 1483.7 | 1486.6 | 1498.2 | 1500.7 |
| 30° | 1439.8 | 1443.0 | 1446.3 | 1458.4 | 1461.6 |
| 32.5° | 1395.5 | 1398.7 | 1402.8 | 1418.5 | 1420.1 |
| 35° | 1345.6 | 1351.6 | 1357.2 | 1370.9 | 1376.6 |
| 37.5° | 1295.6 | 1303.3 | 1308.5 | 1323.0 | 1327.4 |
| 40° | 1242.8 | 1250.5 | 1258.9 | 1274.2 | 1277.1 |
| 42.5° | 1187.6 | 1196.5 | 1206.6 | 1220.3 | 1225.1 |
| 45° | 1132.0 | 1142.1 | 1151.4 | 1162.7 | 1168.3 |
| 47.5° | 1072.0 | 1082.1 | 1093.4 | 1106.3 | 1109.9 |
| 50° | 1010.0 | 1021.7 | 1033.7 | 1045.8 | 1052.3 |
| 52.5° | 946.3 | 960.4 | 974.1 | 987.0 | 993.0 |
| 55° | 883.5 | 893.9 | 910.5 | 923.8 | 929.8 |
| 57.5° | 818.2 | 827.1 | 842.0 | 863.7 | 867.0 |
| 60° | 751.7 | 759.8 | 775.1 | 792.8 | 800.1 |
| 62.5° | 678.4 | 689.3 | 705.4 | 728.0 | 734.4 |
| 65° | 607.1 | 617.6 | 638.9 | 664.3 | 674.8 |
| 67.5° | 538.2 | 541.8 | 569.2 | 595.8 | 612.7 |
| 70° | 456.8 | 470.5 | 502.4 | 535.0 | 547.9 |
| 72.5° | 386.7 | 400.4 | 435.5 | 473.8 | 489.9 |
| 75° | 307.4 | 326.3 | 373.9 | 418.6 | 434.3 |
| 77.5° | 237.7 | 258.6 | 317.5 | 362.6 | 380.7 |
| 80° | 166.0 | 198.6 | 262.7 | 313.4 | 333.2 |
| 82.5° | 104.3 | 144.6 | 213.1 | 266.3 | 283.6 |
| 85° | 53.2 | 98.3 | 168.8 | 223.2 | 242.9 |
| 87.5° | 14.1 | 63.7 | 131.3 | 183.3 | 203.4 |
| 90° | 0.4 | 36.7 | 99.5 | 149.5 | 167.6 |
| 92.5° | 0.4 | 20.5 | 74.1 | 118.8 | 137.4 |
| 95° | 0.4 | 9.7 | 51.6 | 93.5 | 108.0 |
| 97.5° | 0.4 | 4.0 | 35.5 | 70.5 | 85.0 |
| 100° | 0.4 | 2.0 | 22.6 | 51.2 | 63.7 |
| 102.5° | 0.8 | 1.2 | 14.1 | 36.7 | 46.7 |
| 105° | 0.8 | 1.2 | 8.5 | 25.0 | 33.4 |



TEST NUMBER: P580814

CATALOG NUMBER: HVSL8-8-LD4-1LO-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|------|
| 112.5° | 1.2 | 1.2 | 1.6 | 6.8 | 10.1 |
| 115° | 1.2 | 1.2 | 1.6 | 4.4 | 6.4 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | |
|--------|-----|-----|-----|------|------|
| 107.5° | 0.8 | 1.2 | 4.8 | 16.9 | 23.0 |
| 110° | 1.2 | 1.2 | 2.8 | 10.5 | 15.3 |



(END OF REPORT)