

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: P580874

Luminaire Tested: **HVSL8-8-LD4-3STD-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580874
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-LD4-3STD-50-UNV-O-EDD
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

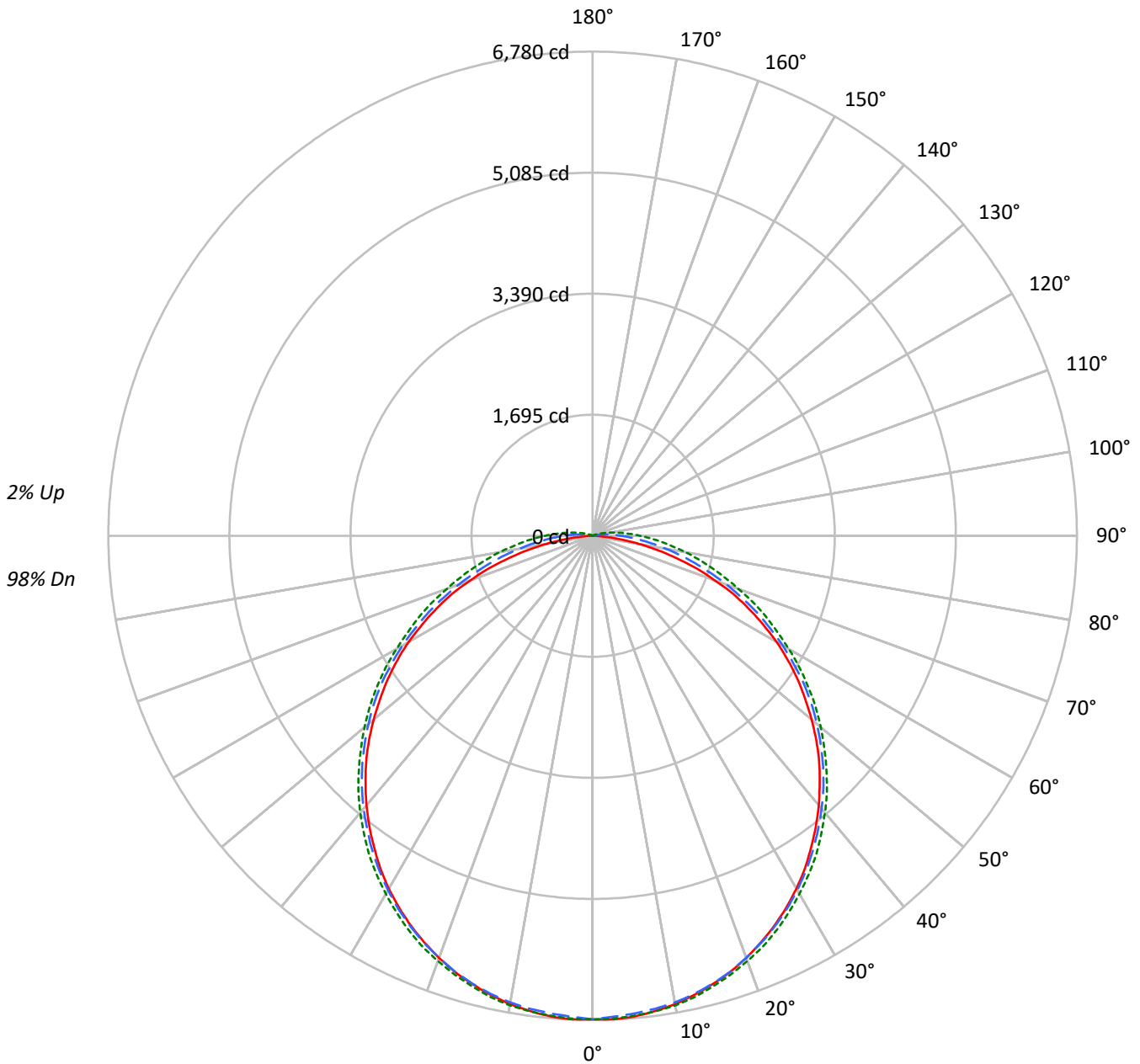
Lumens per Lamp: N/A
Luminaire Lumens: 20474.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 197
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: HVSL8-8-LD4-3STD-50-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580874

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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 | 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° | 13667 | 13667 | 13667 |
| 5° | 13665 | 13378 | 13374 |
| 10° | 13598 | 13155 | 13107 |
| 15° | 13506 | 12906 | 12785 |
| 20° | 13407 | 12625 | 12473 |
| 25° | 13283 | 12335 | 12155 |
| 30° | 13138 | 12025 | 11794 |
| 35° | 12947 | 11683 | 11437 |
| 40° | 12751 | 11323 | 11020 |
| 45° | 12542 | 10928 | 10570 |
| 50° | 12261 | 10471 | 10086 |
| 55° | 11962 | 9968 | 9553 |
| 60° | 11605 | 9309 | 8929 |
| 65° | 10997 | 8570 | 8312 |
| 70° | 10103 | 7696 | 7594 |
| 75° | 8812 | 6736 | 6941 |
| 80° | 6836 | 5798 | 6346 |
| 85° | 3941 | 4857 | 5778 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 640.8 | 3.1 |
| 10°-20° | 1838.1 | 9.0 |
| 20°-30° | 2789.0 | 13.6 |
| 30°-40° | 3372.4 | 16.5 |
| 40°-50° | 3518.8 | 17.2 |
| 50°-60° | 3217.2 | 15.7 |
| 60°-70° | 2508.0 | 12.2 |
| 70°-80° | 1568.9 | 7.7 |
| 80°-90° | 712.6 | 3.5 |
| 90°-100° | 238.8 | 1.2 |
| 100°-110° | 60.0 | 0.3 |
| 110°-120° | 9.5 | 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° | 5267.9 | 25.7 |
| 0°-40° | 8640.3 | 42.2 |
| 0°-60° | 15376.3 | 75.1 |
| 0°-90° | 20165.8 | 98.5 |
| 90°-120° | 308.2 | 1.5 |
| 90°-150° | 308.2 | 1.5 |
| 90°-180° | 308.0 | 1.5 |
| 0°-180° | 20474.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 6772 | 6772 | 6772 | 6772 | 6772 | |
| 5° | 6757 | 6744 | 6714 | 6746 | 6746 | 642 |
| 15° | 6500 | 6511 | 6494 | 6530 | 6529 | 1835 |
| 25° | 6023 | 6028 | 6034 | 6085 | 6095 | 2775 |
| 35° | 5332 | 5356 | 5378 | 5432 | 5455 | 3337 |
| 45° | 4486 | 4526 | 4562 | 4607 | 4629 | 3456 |
| 55° | 3501 | 3542 | 3608 | 3660 | 3684 | 3127 |
| 65° | 2406 | 2447 | 2532 | 2632 | 2674 | 2380 |
| 75° | 1218 | 1293 | 1481 | 1659 | 1721 | 1298 |
| 85° | 211 | 390 | 669 | 884 | 963 | 267 |
| 90° | 2 | 145 | 394 | 592 | 664 | 8 |
| 95° | 2 | 38 | 204 | 370 | 428 | 1 |
| 105° | 3 | 5 | 34 | 99 | 132 | 3 |
| 115° | 5 | 5 | 6 | 18 | 26 | 3 |
| 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: P580874

CATALOG NUMBER: HVSL8-8-LD4-3STD-50-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 6771.6 | 6771.6 | 6771.6 | 6771.6 | 6771.6 |
| 2.5° | 6779.5 | 6770.0 | 6739.6 | 6770.0 | 6768.4 |
| 5° | 6757.2 | 6744.4 | 6714.1 | 6746.0 | 6746.0 |
| 7.5° | 6712.5 | 6707.7 | 6680.6 | 6717.3 | 6717.3 |
| 10° | 6659.8 | 6658.2 | 6635.9 | 6675.8 | 6677.4 |
| 12.5° | 6586.4 | 6592.8 | 6572.0 | 6610.3 | 6615.1 |
| 15° | 6500.2 | 6511.4 | 6493.8 | 6530.5 | 6528.9 |
| 17.5° | 6406.0 | 6412.4 | 6399.6 | 6441.1 | 6439.5 |
| 20° | 6289.5 | 6297.5 | 6287.9 | 6331.0 | 6335.8 |
| 22.5° | 6160.2 | 6171.3 | 6169.8 | 6214.4 | 6227.2 |
| 25° | 6022.9 | 6027.7 | 6034.1 | 6085.1 | 6094.7 |
| 27.5° | 5871.2 | 5879.2 | 5890.4 | 5936.7 | 5946.3 |
| 30° | 5705.2 | 5718.0 | 5730.8 | 5778.7 | 5791.4 |
| 32.5° | 5529.6 | 5542.4 | 5558.4 | 5620.6 | 5627.0 |
| 35° | 5331.7 | 5355.6 | 5378.0 | 5432.3 | 5454.6 |
| 37.5° | 5133.7 | 5164.1 | 5184.8 | 5242.3 | 5259.9 |
| 40° | 4924.6 | 4955.0 | 4988.5 | 5049.1 | 5060.3 |
| 42.5° | 4705.9 | 4741.1 | 4781.0 | 4835.2 | 4854.4 |
| 45° | 4485.6 | 4525.5 | 4562.3 | 4607.0 | 4629.3 |
| 47.5° | 4247.8 | 4287.7 | 4332.4 | 4383.5 | 4397.8 |
| 50° | 4002.0 | 4048.3 | 4096.1 | 4144.0 | 4169.6 |
| 52.5° | 3749.7 | 3805.6 | 3859.9 | 3911.0 | 3934.9 |
| 55° | 3500.7 | 3542.2 | 3607.7 | 3660.3 | 3684.3 |
| 57.5° | 3242.1 | 3277.2 | 3336.3 | 3422.5 | 3435.3 |
| 60° | 2978.7 | 3010.6 | 3071.3 | 3141.5 | 3170.3 |
| 62.5° | 2688.2 | 2731.3 | 2795.1 | 2884.5 | 2910.1 |
| 65° | 2405.6 | 2447.1 | 2531.8 | 2632.3 | 2673.8 |
| 67.5° | 2132.7 | 2147.0 | 2255.6 | 2360.9 | 2428.0 |
| 70° | 1810.2 | 1864.5 | 1990.6 | 2119.9 | 2171.0 |
| 72.5° | 1532.5 | 1586.7 | 1725.6 | 1877.3 | 1941.1 |
| 75° | 1218.0 | 1293.0 | 1481.4 | 1658.6 | 1720.8 |
| 77.5° | 941.8 | 1024.8 | 1257.9 | 1436.7 | 1508.5 |
| 80° | 657.7 | 787.0 | 1040.8 | 1241.9 | 1320.2 |
| 82.5° | 413.4 | 573.1 | 844.4 | 1055.2 | 1123.8 |
| 85° | 210.7 | 389.5 | 668.9 | 884.4 | 962.6 |
| 87.5° | 55.9 | 252.2 | 520.4 | 726.3 | 806.1 |
| 90° | 1.6 | 145.3 | 394.3 | 592.2 | 664.1 |
| 92.5° | 1.6 | 81.4 | 293.7 | 470.9 | 544.3 |
| 95° | 1.6 | 38.3 | 204.3 | 370.3 | 427.8 |
| 97.5° | 1.6 | 16.0 | 140.5 | 279.4 | 336.8 |
| 100° | 1.6 | 8.0 | 89.4 | 202.7 | 252.2 |
| 102.5° | 3.2 | 4.8 | 55.9 | 145.3 | 185.2 |
| 105° | 3.2 | 4.8 | 33.5 | 99.0 | 132.5 |



TEST NUMBER: P580874

CATALOG NUMBER: HVSL8-8-LD4-3STD-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|------|
| 112.5° | 4.8 | 4.8 | 6.4 | 27.1 | 39.9 |
| 115° | 4.8 | 4.8 | 6.4 | 17.6 | 25.5 |
| 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° | 3.2 | 4.8 | 19.2 | 67.0 | 91.0 |
| 110° | 4.8 | 4.8 | 11.2 | 41.5 | 60.7 |



(END OF REPORT)