

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: P580844

Luminaire Tested: **HVSL8-8-LD4-2STD-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580844
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-LD4-2STD-30-UNV-O-EDD
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

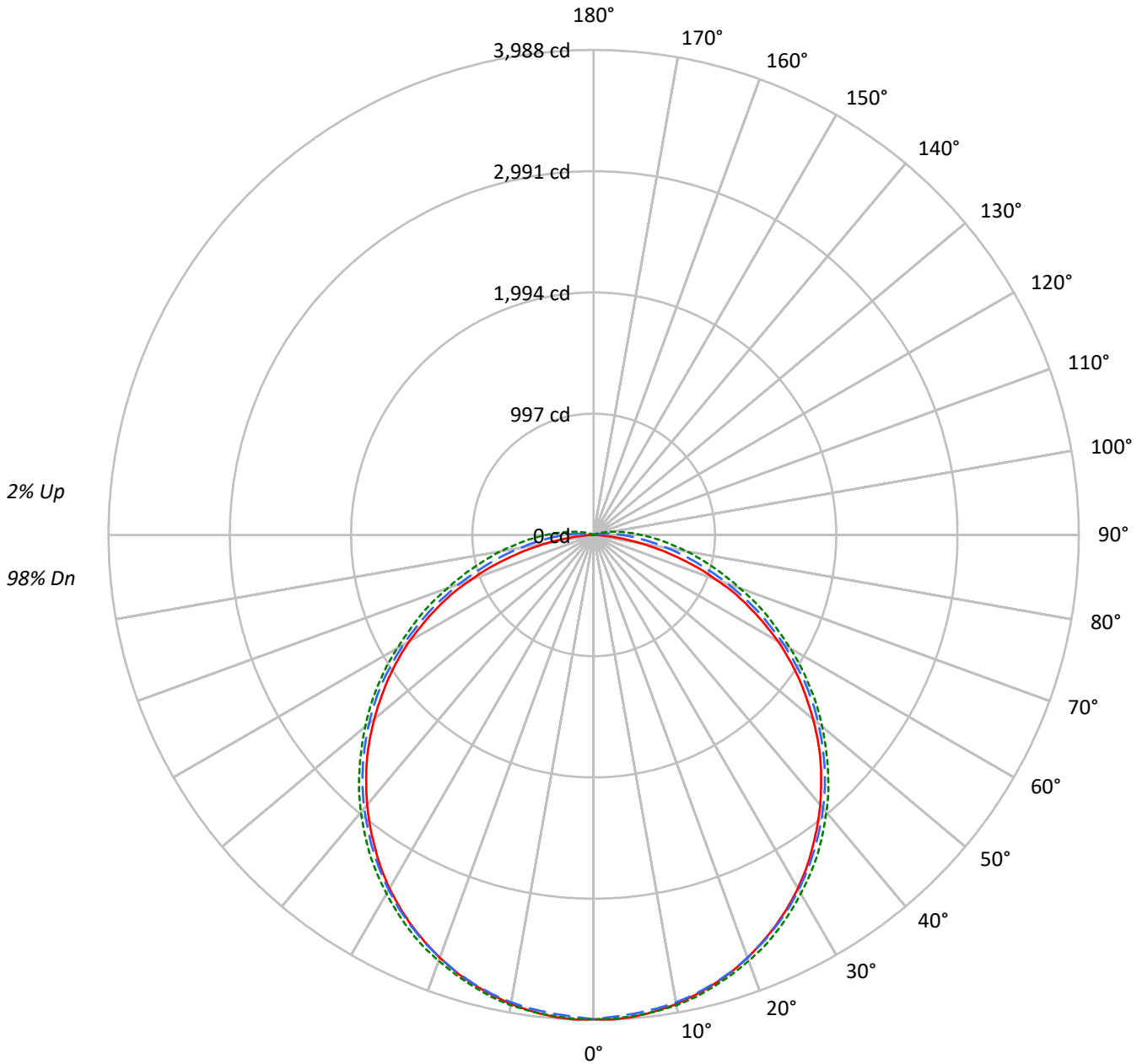
Lumens per Lamp: N/A
Luminaire Lumens: 12043.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 134.8
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-LD4-2STD-30-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580844

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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° | 8039 | 8039 | 8039 |
| 5° | 8038 | 7869 | 7867 |
| 10° | 7999 | 7738 | 7709 |
| 15° | 7945 | 7591 | 7520 |
| 20° | 7886 | 7426 | 7337 |
| 25° | 7813 | 7256 | 7150 |
| 30° | 7728 | 7073 | 6937 |
| 35° | 7616 | 6872 | 6727 |
| 40° | 7501 | 6660 | 6482 |
| 45° | 7377 | 6428 | 6217 |
| 50° | 7212 | 6159 | 5933 |
| 55° | 7036 | 5863 | 5619 |
| 60° | 6826 | 5476 | 5252 |
| 65° | 6468 | 5041 | 4889 |
| 70° | 5943 | 4527 | 4467 |
| 75° | 5183 | 3962 | 4083 |
| 80° | 4022 | 3410 | 3732 |
| 85° | 2317 | 2856 | 3398 |



TEST NUMBER: P580844

CATALOG NUMBER: HVSL8-8-LD4-2STD-30-UNV-O-EDD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 376.9 | 3.1 |
| 10°-20° | 1081.2 | 9.0 |
| 20°-30° | 1640.5 | 13.6 |
| 30°-40° | 1983.7 | 16.5 |
| 40°-50° | 2069.8 | 17.2 |
| 50°-60° | 1892.4 | 15.7 |
| 60°-70° | 1475.2 | 12.2 |
| 70°-80° | 922.8 | 7.7 |
| 80°-90° | 419.1 | 3.5 |
| 90°-100° | 140.5 | 1.2 |
| 100°-110° | 35.3 | 0.3 |
| 110°-120° | 5.6 | 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° | 3098.6 | 25.7 |
| 0°-40° | 5082.3 | 42.2 |
| 0°-60° | 9044.5 | 75.1 |
| 0°-90° | 11861.7 | 98.5 |
| 90°-120° | 181.3 | 1.5 |
| 90°-150° | 181.3 | 1.5 |
| 90°-180° | 181.0 | 1.5 |
| 0°-180° | 12043.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3983 | 3983 | 3983 | 3983 | 3983 | |
| 5° | 3975 | 3967 | 3949 | 3968 | 3968 | 377 |
| 15° | 3824 | 3830 | 3820 | 3841 | 3840 | 1079 |
| 25° | 3543 | 3546 | 3549 | 3579 | 3585 | 1632 |
| 35° | 3136 | 3150 | 3163 | 3195 | 3208 | 1963 |
| 45° | 2638 | 2662 | 2684 | 2710 | 2723 | 2033 |
| 55° | 2059 | 2084 | 2122 | 2153 | 2167 | 1840 |
| 65° | 1415 | 1439 | 1489 | 1548 | 1573 | 1400 |
| 75° | 716 | 761 | 871 | 976 | 1012 | 764 |
| 85° | 124 | 229 | 393 | 520 | 566 | 157 |
| 90° | 1 | 85 | 232 | 348 | 391 | 5 |
| 95° | 1 | 22 | 120 | 218 | 252 | 1 |
| 105° | 2 | 3 | 20 | 58 | 78 | 2 |
| 115° | 3 | 3 | 4 | 10 | 15 | 2 |
| 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: P580844

CATALOG NUMBER: HVSL8-8-LD4-2STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3983.1 | 3983.1 | 3983.1 | 3983.1 | 3983.1 |
| 2.5° | 3987.8 | 3982.2 | 3964.3 | 3982.2 | 3981.2 |
| 5° | 3974.6 | 3967.1 | 3949.3 | 3968.1 | 3968.1 |
| 7.5° | 3948.4 | 3945.5 | 3929.6 | 3951.2 | 3951.2 |
| 10° | 3917.4 | 3916.4 | 3903.3 | 3926.8 | 3927.7 |
| 12.5° | 3874.2 | 3877.9 | 3865.7 | 3888.3 | 3891.1 |
| 15° | 3823.5 | 3830.0 | 3819.7 | 3841.3 | 3840.4 |
| 17.5° | 3768.1 | 3771.8 | 3764.3 | 3788.7 | 3787.8 |
| 20° | 3699.5 | 3704.2 | 3698.6 | 3723.9 | 3726.8 |
| 22.5° | 3623.5 | 3630.0 | 3629.1 | 3655.4 | 3662.9 |
| 25° | 3542.7 | 3545.5 | 3549.3 | 3579.3 | 3585.0 |
| 27.5° | 3453.5 | 3458.2 | 3464.8 | 3492.0 | 3497.7 |
| 30° | 3355.9 | 3363.4 | 3370.9 | 3399.1 | 3406.6 |
| 32.5° | 3252.6 | 3260.1 | 3269.5 | 3306.1 | 3309.9 |
| 35° | 3136.1 | 3150.2 | 3163.4 | 3195.3 | 3208.4 |
| 37.5° | 3019.7 | 3037.6 | 3049.8 | 3083.6 | 3093.9 |
| 40° | 2896.7 | 2914.6 | 2934.3 | 2970.0 | 2976.5 |
| 42.5° | 2768.1 | 2788.7 | 2812.2 | 2844.1 | 2855.4 |
| 45° | 2638.5 | 2662.0 | 2683.6 | 2709.9 | 2723.0 |
| 47.5° | 2498.6 | 2522.1 | 2548.4 | 2578.4 | 2586.9 |
| 50° | 2354.0 | 2381.2 | 2409.4 | 2437.6 | 2452.6 |
| 52.5° | 2205.6 | 2238.5 | 2270.4 | 2300.5 | 2314.6 |
| 55° | 2059.2 | 2083.6 | 2122.1 | 2153.1 | 2167.1 |
| 57.5° | 1907.0 | 1927.7 | 1962.4 | 2013.1 | 2020.7 |
| 60° | 1752.1 | 1770.9 | 1806.6 | 1847.9 | 1864.8 |
| 62.5° | 1581.2 | 1606.6 | 1644.1 | 1696.7 | 1711.7 |
| 65° | 1415.0 | 1439.4 | 1489.2 | 1548.4 | 1572.8 |
| 67.5° | 1254.5 | 1262.9 | 1326.8 | 1388.7 | 1428.2 |
| 70° | 1064.8 | 1096.7 | 1170.9 | 1246.9 | 1277.0 |
| 72.5° | 901.4 | 933.3 | 1015.0 | 1104.2 | 1141.8 |
| 75° | 716.4 | 760.6 | 871.4 | 975.6 | 1012.2 |
| 77.5° | 554.0 | 602.8 | 739.9 | 845.1 | 887.3 |
| 80° | 386.9 | 462.9 | 612.2 | 730.5 | 776.5 |
| 82.5° | 243.2 | 337.1 | 496.7 | 620.7 | 661.0 |
| 85° | 123.9 | 229.1 | 393.4 | 520.2 | 566.2 |
| 87.5° | 32.9 | 148.4 | 306.1 | 427.2 | 474.2 |
| 90° | 0.9 | 85.4 | 231.9 | 348.4 | 390.6 |
| 92.5° | 0.9 | 47.9 | 172.8 | 277.0 | 320.2 |
| 95° | 0.9 | 22.5 | 120.2 | 217.8 | 251.6 |
| 97.5° | 0.9 | 9.4 | 82.6 | 164.3 | 198.1 |
| 100° | 0.9 | 4.7 | 52.6 | 119.2 | 148.4 |
| 102.5° | 1.9 | 2.8 | 32.9 | 85.4 | 108.9 |
| 105° | 1.9 | 2.8 | 19.7 | 58.2 | 77.9 |



TEST NUMBER: P580844

CATALOG NUMBER: HVSL8-8-LD4-2STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|------|
| 112.5° | 2.8 | 2.8 | 3.8 | 16.0 | 23.5 |
| 115° | 2.8 | 2.8 | 3.8 | 10.3 | 15.0 |
| 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° | 1.9 | 2.8 | 11.3 | 39.4 | 53.5 |
| 110° | 2.8 | 2.8 | 6.6 | 24.4 | 35.7 |



(END OF REPORT)