

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: PORTFOLIO

Report Number: P248114

Luminaire Tested: **LD8B150D010 ER8B150940 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B150940 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14865.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

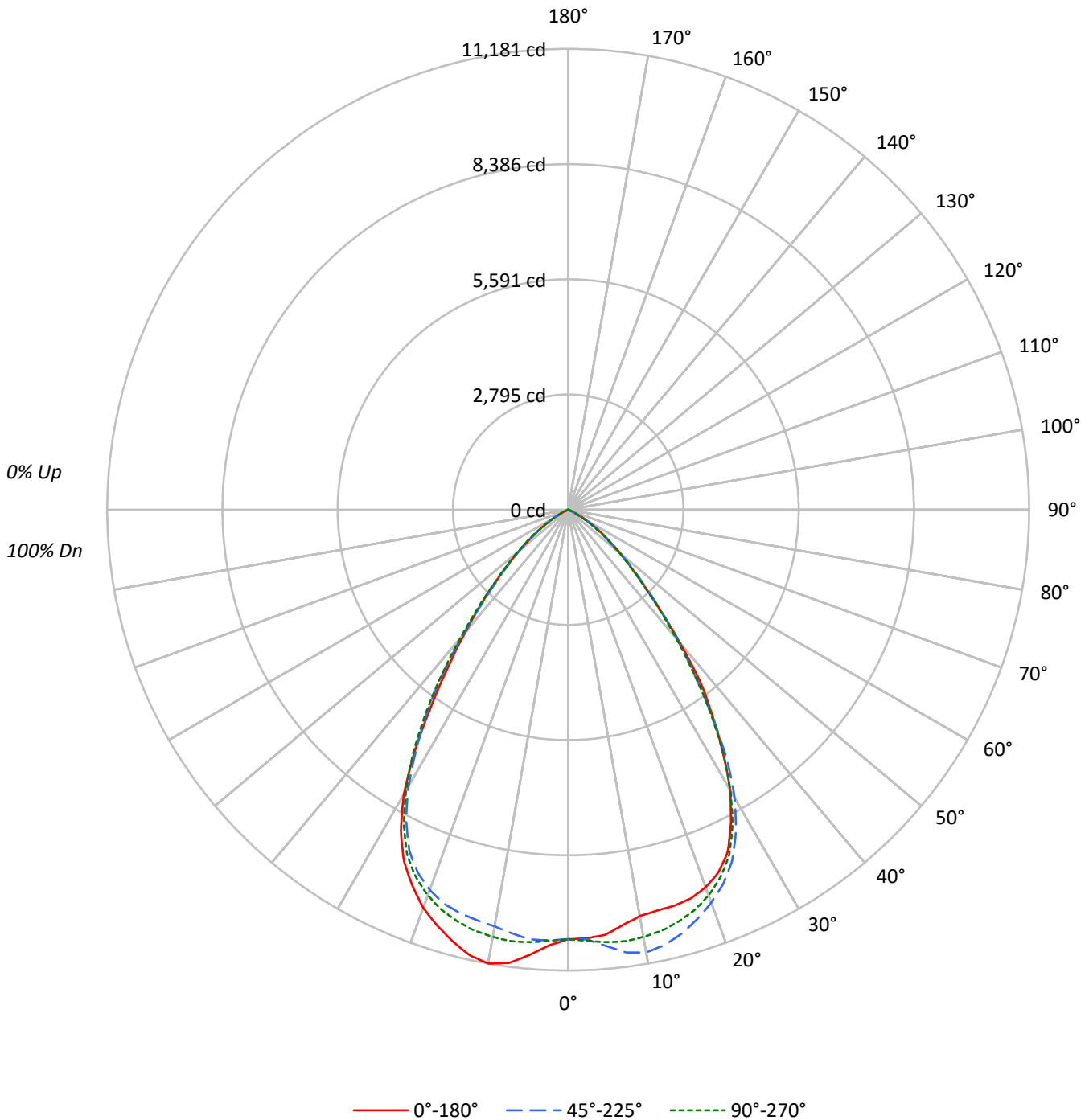
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | | | | | 92 | | | |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 96 | 92 | 89 | 93 | 90 | 87 | 90 | 87 | 85 | 84 | | | | | 84 | | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 78 | 76 | | | | | 76 | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 72 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 5 | 88 | 78 | 72 | 67 | 86 | 77 | 71 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 | | | | | 63 | | | |
| 6 | 83 | 72 | 66 | 61 | 81 | 72 | 65 | 61 | 70 | 64 | 60 | 69 | 64 | 60 | 67 | 63 | 59 | 58 | | | | | 58 | | | |
| 7 | 78 | 67 | 60 | 56 | 76 | 67 | 60 | 55 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | | | | | 53 | | | |
| 8 | 73 | 63 | 56 | 51 | 72 | 62 | 55 | 51 | 61 | 55 | 51 | 60 | 54 | 50 | 59 | 54 | 50 | 49 | | | | | 49 | | | |
| 9 | 69 | 58 | 52 | 47 | 68 | 58 | 51 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | | | | | 45 | | | |
| 10 | 65 | 55 | 48 | 44 | 64 | 54 | 48 | 44 | 53 | 47 | 43 | 52 | 47 | 43 | 52 | 47 | 43 | 42 | | | | | 42 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 321345 | 321345 | 321345 |
| 5° | 320397 | 325993 | 335725 |
| 10° | 313502 | 329568 | 350093 |
| 15° | 317440 | 330322 | 345990 |
| 20° | 319815 | 326772 | 337351 |
| 25° | 311623 | 314532 | 320565 |
| 30° | 279530 | 280260 | 283622 |
| 35° | 229641 | 226257 | 216465 |
| 40° | 169658 | 164176 | 155783 |
| 45° | 112525 | 111670 | 110000 |
| 50° | 79606 | 76142 | 74348 |
| 55° | 53202 | 48412 | 45778 |
| 60° | 29936 | 25983 | 23676 |
| 65° | 11565 | 8318 | 6888 |
| 70° | 3372 | 1929 | 1605 |
| 75° | 953 | 536 | 631 |
| 80° | 0 | 0 | 0 |
| 85° | 637 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1008.1 | 6.8 |
| 10°-20° | 2923.4 | 19.7 |
| 20°-30° | 4198.2 | 28.2 |
| 30°-40° | 3710.9 | 25.0 |
| 40°-50° | 2031.3 | 13.7 |
| 50°-60° | 836.3 | 5.6 |
| 60°-70° | 149.8 | 1.0 |
| 70°-80° | 6.5 | 0.0 |
| 80°-90° | 0.5 | 0.0 |
| 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° | 8129.6 | 54.7 |
| 0°-40° | 11840.6 | 79.7 |
| 0°-60° | 14708.1 | 98.9 |
| 0°-90° | 14865.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 14865.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10421 | 10421 | 10421 | 10421 | 10421 | |
| 5° | 10351 | 10629 | 10532 | 10467 | 10846 | 975 |
| 15° | 9944 | 10646 | 10347 | 10133 | 10838 | 2808 |
| 25° | 9159 | 9407 | 9244 | 9122 | 9422 | 4143 |
| 35° | 6100 | 6046 | 6010 | 5928 | 5750 | 3784 |
| 45° | 2580 | 2656 | 2561 | 2451 | 2522 | 2077 |
| 55° | 990 | 943 | 900 | 871 | 852 | 897 |
| 65° | 158 | 124 | 114 | 92 | 94 | 185 |
| 75° | 8 | 4 | 4 | 5 | 5 | 12 |
| 85° | 2 | 2 | 0 | 5 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10421.0 | 10421.0 | 10421.0 | 10421.0 | 10421.0 | 10421.0 | 10421.0 | 10421.0 | 10421.0 |
| 2.5° | 10407.7 | 10426.4 | 10435.3 | 10482.5 | 10466.5 | 10444.2 | 10456.7 | 10495.0 | 10577.8 |
| 5° | 10350.7 | 10450.4 | 10628.6 | 10689.1 | 10531.5 | 10394.3 | 10467.4 | 10676.7 | 10845.9 |
| 7.5° | 10162.7 | 10413.9 | 10835.2 | 10927.0 | 10561.8 | 10246.5 | 10373.8 | 10825.4 | 11092.6 |
| 10° | 10012.2 | 10324.0 | 10902.9 | 11039.2 | 10525.3 | 10117.3 | 10266.1 | 10818.3 | 11180.8 |
| 12.5° | 9961.5 | 10249.1 | 10817.4 | 10971.5 | 10463.8 | 10071.9 | 10202.8 | 10714.1 | 11068.6 |
| 15° | 9943.6 | 10174.3 | 10646.4 | 10770.2 | 10347.1 | 10027.4 | 10133.4 | 10544.0 | 10837.9 |
| 17.5° | 9888.4 | 10060.3 | 10412.1 | 10512.8 | 10186.8 | 9939.2 | 10021.1 | 10340.0 | 10576.0 |
| 20° | 9745.9 | 9892.0 | 10144.9 | 10215.3 | 9957.9 | 9763.7 | 9816.3 | 10055.9 | 10280.3 |
| 22.5° | 9523.2 | 9617.6 | 9822.5 | 9856.4 | 9652.4 | 9497.4 | 9530.4 | 9709.4 | 9873.3 |
| 25° | 9158.9 | 9224.9 | 9406.6 | 9415.5 | 9244.4 | 9109.1 | 9122.4 | 9272.1 | 9421.7 |
| 27.5° | 8546.1 | 8670.8 | 8804.4 | 8842.7 | 8628.1 | 8469.6 | 8510.5 | 8610.3 | 8785.7 |
| 30° | 7850.5 | 7942.3 | 8073.2 | 8043.8 | 7871.0 | 7728.5 | 7745.4 | 7834.5 | 7965.4 |
| 32.5° | 6983.0 | 7080.1 | 7146.9 | 7086.3 | 6999.0 | 6871.7 | 6833.4 | 6871.7 | 6907.3 |
| 35° | 6100.3 | 6133.3 | 6046.0 | 6011.3 | 6010.4 | 5971.2 | 5928.4 | 5812.6 | 5750.3 |
| 37.5° | 5257.7 | 5154.4 | 4997.6 | 4930.8 | 5007.4 | 5102.8 | 4974.5 | 4823.1 | 4744.7 |
| 40° | 4214.7 | 4217.4 | 4119.4 | 4050.0 | 4078.5 | 4046.4 | 3990.3 | 3893.2 | 3870.0 |
| 42.5° | 3294.7 | 3304.5 | 3335.6 | 3296.4 | 3227.9 | 3123.6 | 3092.5 | 3096.9 | 3165.5 |
| 45° | 2580.3 | 2599.9 | 2656.0 | 2650.7 | 2560.7 | 2494.8 | 2451.2 | 2512.6 | 2522.4 |
| 47.5° | 2052.1 | 2079.8 | 2102.9 | 2101.1 | 2031.7 | 1965.7 | 1946.2 | 1957.7 | 1981.8 |
| 50° | 1659.4 | 1656.7 | 1638.9 | 1615.7 | 1587.2 | 1573.8 | 1551.6 | 1549.8 | 1549.8 |
| 52.5° | 1278.1 | 1282.6 | 1247.0 | 1248.7 | 1235.4 | 1198.0 | 1188.2 | 1168.6 | 1168.6 |
| 55° | 989.6 | 971.7 | 943.2 | 915.6 | 900.5 | 874.7 | 871.1 | 850.6 | 851.5 |
| 57.5° | 702.8 | 686.7 | 652.9 | 636.0 | 624.4 | 617.2 | 602.1 | 586.1 | 578.9 |
| 60° | 485.4 | 472.1 | 453.4 | 436.4 | 421.3 | 417.7 | 403.5 | 387.4 | 383.9 |
| 62.5° | 293.0 | 289.5 | 256.5 | 250.3 | 238.7 | 233.4 | 223.6 | 212.9 | 213.8 |
| 65° | 158.5 | 135.4 | 123.8 | 116.7 | 114.0 | 99.8 | 91.7 | 90.0 | 94.4 |
| 67.5° | 42.8 | 42.8 | 34.7 | 33.0 | 33.0 | 24.0 | 27.6 | 26.7 | 34.7 |
| 70° | 37.4 | 26.7 | 23.2 | 18.7 | 21.4 | 12.5 | 23.2 | 18.7 | 17.8 |
| 72.5° | 19.6 | 10.7 | 8.9 | 8.9 | 9.8 | 6.2 | 14.3 | 8.0 | 6.2 |
| 75° | 8.0 | 5.3 | 3.6 | 1.8 | 4.5 | 4.5 | 5.3 | 1.8 | 5.3 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.8 | 2.7 | 1.8 | 0.0 | 0.0 | 0.0 | 5.3 | 0.0 | 0.0 |
| 87.5° | 0.0 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)