

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: P248121

Luminaire Tested: **LD8B175D010 ER8B175927 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248121
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: LD8B175D010 ER8B175927 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14760.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

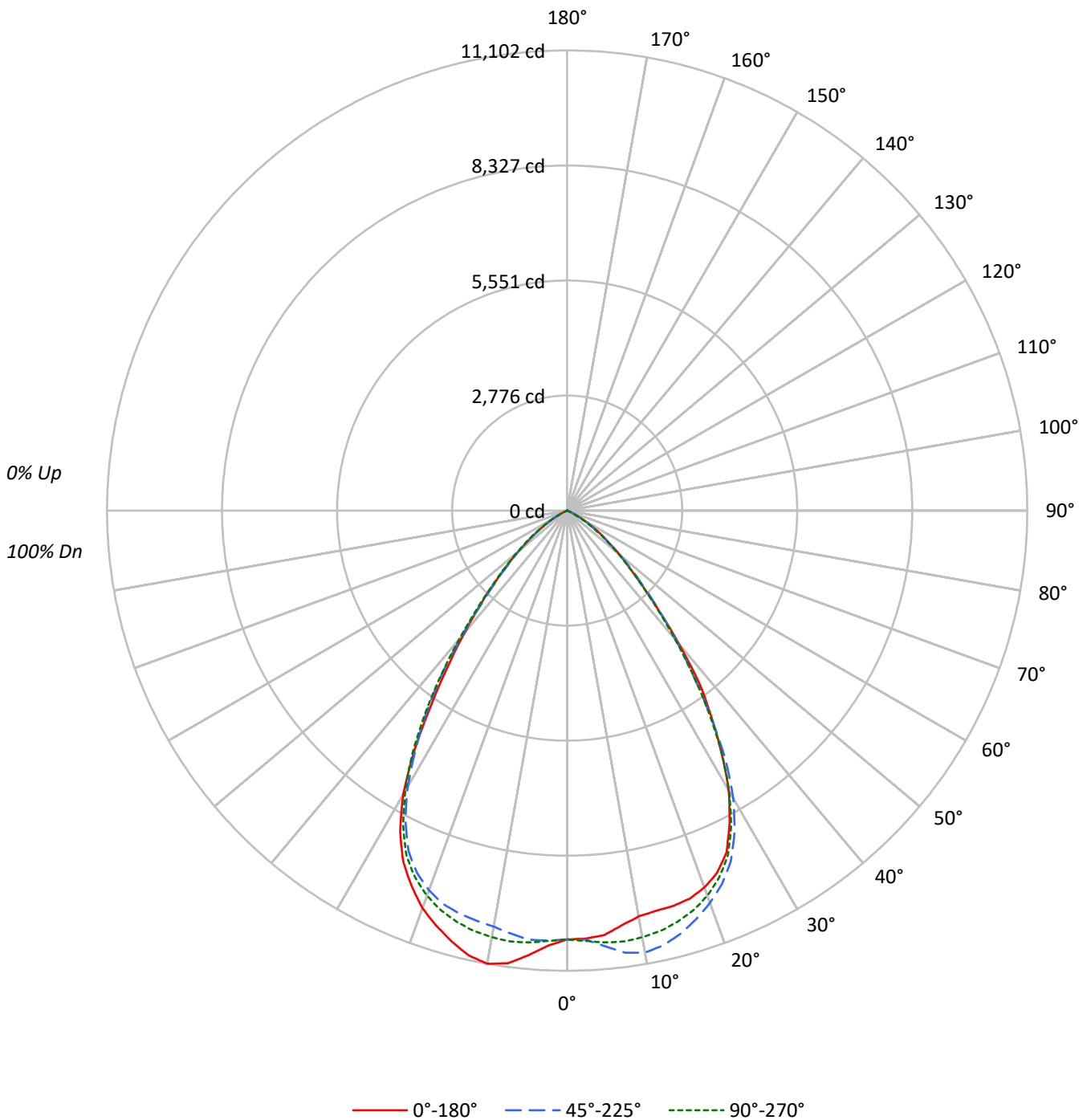
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

| | | | |
|-----|--|-----|------|
| | 0° | 90° | 180° |
| 0° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1000.9 | 6.8 |
| 10°-20° | 2902.7 | 19.7 |
| 20°-30° | 4168.5 | 28.2 |
| 30°-40° | 3684.7 | 25.0 |
| 40°-50° | 2017.0 | 13.7 |
| 50°-60° | 830.4 | 5.6 |
| 60°-70° | 148.8 | 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° | 8072.2 | 54.7 |
| 0°-40° | 11756.9 | 79.7 |
| 0°-60° | 14604.3 | 98.9 |
| 0°-90° | 14760.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 14760.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10347 | 10347 | 10347 | 10347 | 10347 | |
| 5° | 10278 | 10554 | 10457 | 10393 | 10769 | 968 |
| 15° | 9873 | 10571 | 10274 | 10062 | 10761 | 2788 |
| 25° | 9094 | 9340 | 9179 | 9058 | 9355 | 4114 |
| 35° | 6057 | 6003 | 5968 | 5887 | 5710 | 3758 |
| 45° | 2562 | 2637 | 2543 | 2434 | 2505 | 2062 |
| 55° | 983 | 937 | 894 | 865 | 845 | 890 |
| 65° | 157 | 123 | 113 | 91 | 94 | 183 |
| 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° | 10347.4 | 10347.4 | 10347.4 | 10347.4 | 10347.4 | 10347.4 | 10347.4 | 10347.4 | 10347.4 |
| 2.5° | 10334.1 | 10352.7 | 10361.6 | 10408.5 | 10392.5 | 10370.5 | 10382.8 | 10420.9 | 10503.1 |
| 5° | 10277.6 | 10376.7 | 10553.5 | 10613.6 | 10457.1 | 10320.9 | 10393.4 | 10601.2 | 10769.3 |
| 7.5° | 10090.9 | 10340.3 | 10758.7 | 10849.7 | 10487.1 | 10174.1 | 10300.6 | 10748.9 | 11014.3 |
| 10° | 9941.5 | 10251.0 | 10825.9 | 10961.2 | 10450.9 | 10045.9 | 10193.5 | 10741.8 | 11101.8 |
| 12.5° | 9891.1 | 10176.8 | 10741.1 | 10894.1 | 10389.9 | 10000.8 | 10130.7 | 10638.4 | 10990.4 |
| 15° | 9873.4 | 10102.5 | 10571.2 | 10694.1 | 10274.1 | 9956.6 | 10061.8 | 10469.5 | 10761.3 |
| 17.5° | 9818.6 | 9989.2 | 10338.6 | 10438.5 | 10114.9 | 9868.9 | 9950.4 | 10267.0 | 10501.3 |
| 20° | 9677.0 | 9822.2 | 10073.2 | 10143.1 | 9887.5 | 9694.8 | 9746.9 | 9984.8 | 10207.7 |
| 22.5° | 9456.0 | 9549.7 | 9753.1 | 9786.7 | 9584.2 | 9430.3 | 9463.1 | 9640.8 | 9803.6 |
| 25° | 9094.3 | 9159.6 | 9340.1 | 9349.0 | 9179.1 | 9044.8 | 9057.9 | 9206.6 | 9355.2 |
| 27.5° | 8485.8 | 8609.6 | 8742.3 | 8780.3 | 8567.1 | 8409.7 | 8450.4 | 8549.4 | 8723.7 |
| 30° | 7795.1 | 7886.1 | 8016.2 | 7986.9 | 7815.4 | 7674.0 | 7690.7 | 7779.2 | 7909.2 |
| 32.5° | 6933.7 | 7030.0 | 7096.4 | 7036.3 | 6949.6 | 6823.1 | 6785.1 | 6823.1 | 6858.4 |
| 35° | 6057.2 | 6090.0 | 6003.3 | 5968.8 | 5967.9 | 5929.0 | 5886.6 | 5771.6 | 5709.7 |
| 37.5° | 5220.6 | 5118.0 | 4962.4 | 4896.0 | 4972.0 | 5066.7 | 4939.3 | 4789.0 | 4711.2 |
| 40° | 4185.0 | 4187.6 | 4090.4 | 4021.3 | 4049.7 | 4017.8 | 3962.1 | 3865.7 | 3842.7 |
| 42.5° | 3271.4 | 3281.1 | 3312.1 | 3273.2 | 3205.0 | 3101.6 | 3070.6 | 3075.1 | 3143.1 |
| 45° | 2562.1 | 2581.5 | 2637.2 | 2631.9 | 2542.6 | 2477.2 | 2433.8 | 2494.9 | 2504.6 |
| 47.5° | 2037.6 | 2065.0 | 2088.1 | 2086.3 | 2017.4 | 1951.9 | 1932.4 | 1943.9 | 1967.7 |
| 50° | 1647.7 | 1645.0 | 1627.3 | 1604.2 | 1576.0 | 1562.7 | 1540.6 | 1538.9 | 1538.9 |
| 52.5° | 1269.1 | 1273.5 | 1238.2 | 1240.0 | 1226.7 | 1189.5 | 1179.8 | 1160.3 | 1160.3 |
| 55° | 982.6 | 964.9 | 936.6 | 909.1 | 894.2 | 868.5 | 864.9 | 844.6 | 845.4 |
| 57.5° | 697.8 | 681.9 | 648.2 | 631.5 | 620.0 | 612.9 | 597.8 | 582.0 | 574.9 |
| 60° | 482.0 | 468.7 | 450.1 | 433.4 | 418.3 | 414.8 | 400.6 | 384.8 | 381.2 |
| 62.5° | 290.9 | 287.4 | 254.7 | 248.5 | 237.0 | 231.8 | 222.0 | 211.4 | 212.3 |
| 65° | 157.4 | 134.4 | 123.0 | 115.9 | 113.2 | 99.0 | 91.1 | 89.3 | 93.7 |
| 67.5° | 42.4 | 42.4 | 34.5 | 32.7 | 32.7 | 23.8 | 27.4 | 26.6 | 34.5 |
| 70° | 37.1 | 26.6 | 23.0 | 18.6 | 21.3 | 12.4 | 23.0 | 18.6 | 17.7 |
| 72.5° | 19.5 | 10.6 | 8.9 | 8.9 | 9.7 | 6.2 | 14.2 | 8.0 | 6.2 |
| 75° | 8.0 | 5.3 | 3.5 | 1.8 | 4.4 | 4.4 | 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)