

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: P248124

Luminaire Tested: **LD8B175D010 ER8B175930 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248124
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 ER8B175930 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15559.5 lumens
Efficiency: N/A
Efficacy: 87.8 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

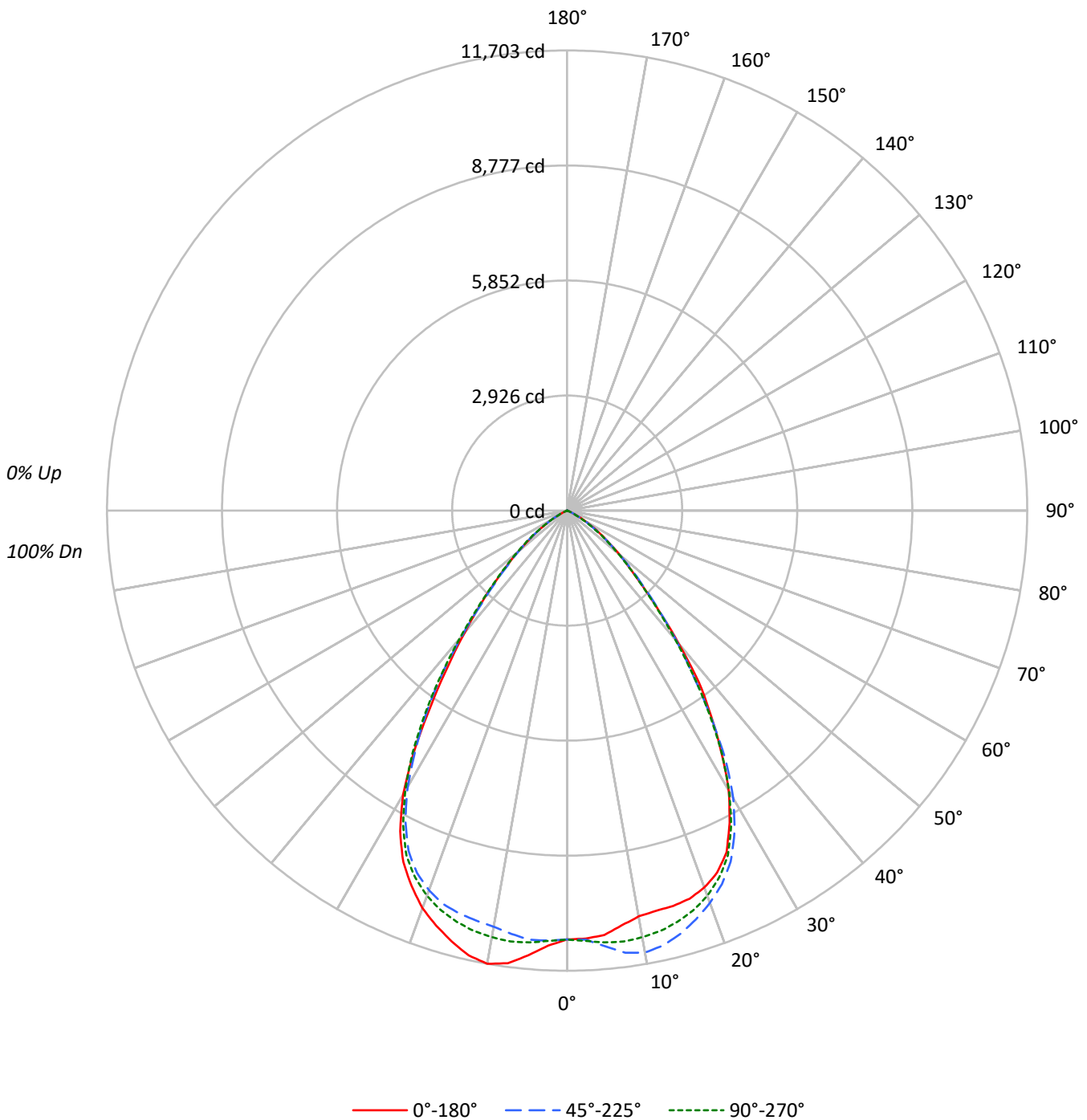
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 100 | 100 | | | |
| 1 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | 92 | 92 | 92 | | | |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 96 | 92 | 89 | 93 | 90 | 87 | 90 | 87 | 85 | 84 | 84 | 84 | 84 | | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 78 | 76 | 76 | 76 | 76 | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 72 | 78 | 74 | 71 | 69 | 69 | 69 | 69 | | | |
| 5 | 88 | 78 | 72 | 67 | 86 | 77 | 71 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 | 63 | 63 | 63 | | | |
| 6 | 83 | 72 | 66 | 61 | 81 | 72 | 65 | 61 | 70 | 64 | 60 | 69 | 64 | 60 | 67 | 63 | 59 | 58 | 58 | 58 | 58 | | | |
| 7 | 78 | 67 | 60 | 56 | 76 | 67 | 60 | 55 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | 53 | 53 | 53 | | | |
| 8 | 73 | 63 | 56 | 51 | 72 | 62 | 55 | 51 | 61 | 55 | 51 | 60 | 54 | 50 | 59 | 54 | 50 | 49 | 49 | 49 | 49 | | | |
| 9 | 69 | 58 | 52 | 47 | 68 | 58 | 51 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | 45 | 45 | 45 | | | |
| 10 | 65 | 55 | 48 | 44 | 64 | 54 | 48 | 44 | 53 | 47 | 43 | 52 | 47 | 43 | 52 | 47 | 43 | 42 | 42 | 42 | 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° | 1055.2 | 6.8 |
| 10°-20° | 3060.0 | 19.7 |
| 20°-30° | 4394.3 | 28.2 |
| 30°-40° | 3884.3 | 25.0 |
| 40°-50° | 2126.2 | 13.7 |
| 50°-60° | 875.3 | 5.6 |
| 60°-70° | 156.8 | 1.0 |
| 70°-80° | 6.8 | 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° | 8509.4 | 54.7 |
| 0°-40° | 12393.7 | 79.7 |
| 0°-60° | 15395.3 | 98.9 |
| 0°-90° | 15559.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 15559.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10908 | 10908 | 10908 | 10908 | 10908 | |
| 5° | 10834 | 11125 | 11024 | 10956 | 11353 | ### |
| 15° | 10408 | 11144 | 10830 | 10607 | 11344 | 2940 |
| 25° | 9587 | 9846 | 9676 | 9549 | 9862 | 4336 |
| 35° | 6385 | 6328 | 6291 | 6205 | 6019 | 3961 |
| 45° | 2701 | 2780 | 2680 | 2566 | 2640 | 2174 |
| 55° | 1036 | 987 | 942 | 912 | 891 | 939 |
| 65° | 166 | 130 | 119 | 96 | 99 | 193 |
| 75° | 8 | 4 | 5 | 6 | 6 | 13 |
| 85° | 2 | 2 | 0 | 6 | 0 | 1 |
| 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° | 10907.9 | 10907.9 | 10907.9 | 10907.9 | 10907.9 | 10907.9 | 10907.9 | 10907.9 | 10907.9 |
| 2.5° | 10893.9 | 10913.5 | 10922.8 | 10972.2 | 10955.4 | 10932.1 | 10945.2 | 10985.2 | 11072.0 |
| 5° | 10834.2 | 10938.7 | 11125.1 | 11188.5 | 11023.5 | 10880.0 | 10956.4 | 11175.5 | 11352.6 |
| 7.5° | 10637.5 | 10900.5 | 11341.4 | 11437.5 | 11055.2 | 10725.2 | 10858.5 | 11331.2 | 11610.9 |
| 10° | 10480.0 | 10806.3 | 11412.2 | 11554.9 | 11017.0 | 10590.0 | 10745.7 | 11323.7 | 11703.1 |
| 12.5° | 10426.9 | 10728.0 | 11322.8 | 11484.1 | 10952.6 | 10542.4 | 10679.5 | 11214.6 | 11585.6 |
| 15° | 10408.1 | 10649.6 | 11143.7 | 11273.3 | 10830.5 | 10495.8 | 10606.8 | 11036.6 | 11344.2 |
| 17.5° | 10350.4 | 10530.3 | 10898.6 | 11004.0 | 10662.7 | 10403.6 | 10489.3 | 10823.0 | 11070.1 |
| 20° | 10201.2 | 10354.1 | 10618.9 | 10692.5 | 10423.1 | 10219.8 | 10274.9 | 10525.6 | 10760.6 |
| 22.5° | 9968.2 | 10067.0 | 10281.4 | 10316.8 | 10103.3 | 9941.1 | 9975.6 | 10163.0 | 10334.5 |
| 25° | 9586.8 | 9655.8 | 9846.0 | 9855.4 | 9676.4 | 9534.7 | 9548.6 | 9705.3 | 9861.9 |
| 27.5° | 8945.5 | 9076.0 | 9215.7 | 9255.9 | 9031.2 | 8865.2 | 8908.1 | 9012.5 | 9196.2 |
| 30° | 8217.3 | 8313.3 | 8450.3 | 8419.6 | 8238.8 | 8089.6 | 8107.3 | 8200.6 | 8337.5 |
| 32.5° | 7309.3 | 7410.8 | 7480.8 | 7417.4 | 7326.0 | 7192.7 | 7152.7 | 7192.7 | 7230.0 |
| 35° | 6385.3 | 6419.9 | 6328.5 | 6292.1 | 6291.2 | 6250.1 | 6205.4 | 6084.2 | 6018.9 |
| 37.5° | 5503.3 | 5395.3 | 5231.1 | 5161.2 | 5241.3 | 5341.1 | 5206.9 | 5048.4 | 4966.4 |
| 40° | 4411.7 | 4414.4 | 4311.9 | 4239.2 | 4269.0 | 4235.5 | 4176.7 | 4075.1 | 4050.8 |
| 42.5° | 3448.5 | 3458.8 | 3491.5 | 3450.4 | 3378.7 | 3269.6 | 3237.0 | 3241.6 | 3313.3 |
| 45° | 2700.8 | 2721.3 | 2780.1 | 2774.5 | 2680.3 | 2611.4 | 2565.7 | 2630.0 | 2640.3 |
| 47.5° | 2148.1 | 2176.9 | 2201.2 | 2199.3 | 2126.5 | 2057.6 | 2037.1 | 2049.2 | 2074.4 |
| 50° | 1736.9 | 1734.1 | 1715.5 | 1691.1 | 1661.3 | 1647.4 | 1624.1 | 1622.2 | 1622.2 |
| 52.5° | 1337.8 | 1342.5 | 1305.2 | 1307.1 | 1293.1 | 1254.0 | 1243.6 | 1223.1 | 1223.1 |
| 55° | 1035.8 | 1017.1 | 987.3 | 958.5 | 942.5 | 915.5 | 911.8 | 890.3 | 891.3 |
| 57.5° | 735.6 | 718.8 | 683.4 | 665.6 | 653.5 | 646.0 | 630.2 | 613.4 | 606.0 |
| 60° | 508.1 | 494.1 | 474.5 | 456.8 | 441.0 | 437.3 | 422.3 | 405.6 | 401.8 |
| 62.5° | 306.7 | 303.0 | 268.5 | 262.0 | 249.9 | 244.3 | 234.0 | 222.9 | 223.8 |
| 65° | 165.9 | 141.7 | 129.6 | 122.1 | 119.4 | 104.4 | 96.1 | 94.2 | 98.9 |
| 67.5° | 44.7 | 44.7 | 36.3 | 34.5 | 34.5 | 25.2 | 28.9 | 28.0 | 36.3 |
| 70° | 39.1 | 28.0 | 24.2 | 19.6 | 22.4 | 13.0 | 24.2 | 19.6 | 18.6 |
| 72.5° | 20.5 | 11.2 | 9.3 | 9.3 | 10.2 | 6.5 | 14.9 | 8.4 | 6.5 |
| 75° | 8.4 | 5.6 | 3.7 | 1.9 | 4.7 | 4.7 | 5.6 | 1.9 | 5.6 |
| 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° | 1.9 | 2.8 | 1.9 | 0.0 | 0.0 | 0.0 | 5.6 | 0.0 | 0.0 |
| 87.5° | 0.0 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 1.9 | 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)