

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: P248120

Luminaire Tested: **LD8B150D010 ER8B1509727 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248120
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 ER8B1509727 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: 11620.0 lumens
Efficiency: N/A
Efficacy: 73.3 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

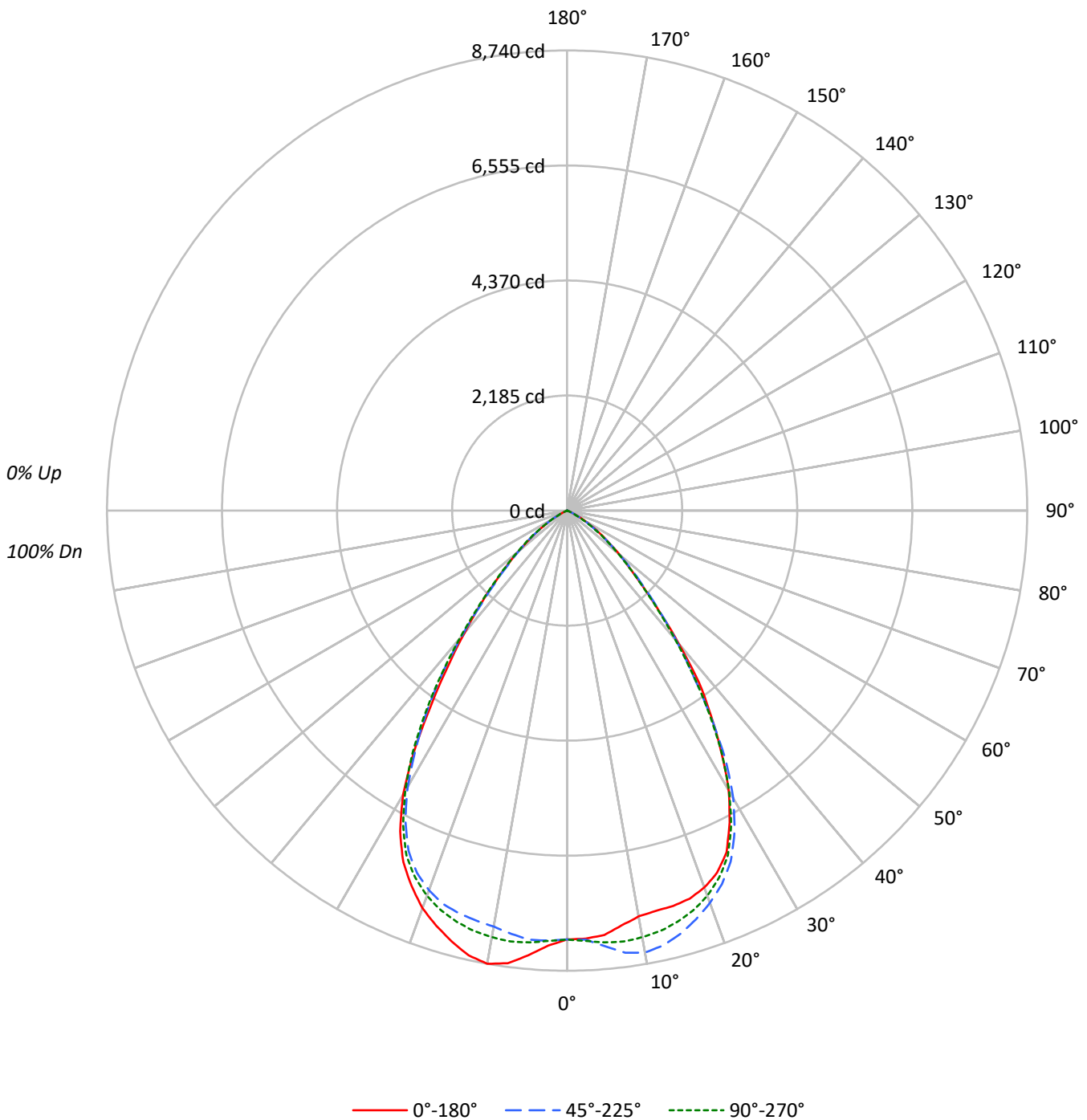
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248120

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248120

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBW0WH

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° | | | |



TEST NUMBER: P248120

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBW0WH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 788.0 | 6.8 |
| 10°-20° | 2285.2 | 19.7 |
| 20°-30° | 3281.7 | 28.2 |
| 30°-40° | 2900.9 | 25.0 |
| 40°-50° | 1587.9 | 13.7 |
| 50°-60° | 653.7 | 5.6 |
| 60°-70° | 117.1 | 1.0 |
| 70°-80° | 5.1 | 0.0 |
| 80°-90° | 0.4 | 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° | 6354.9 | 54.7 |
| 0°-40° | 9255.8 | 79.7 |
| 0°-60° | 11497.4 | 98.9 |
| 0°-90° | 11620.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 11620.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 8146 | 8146 | 8146 | 8146 | 8146 | |
| 5° | 8091 | 8308 | 8232 | 8182 | 8478 | 762 |
| 15° | 7773 | 8322 | 8088 | 7921 | 8472 | 2195 |
| 25° | 7160 | 7353 | 7226 | 7131 | 7365 | 3239 |
| 35° | 4769 | 4726 | 4698 | 4634 | 4495 | 2958 |
| 45° | 2017 | 2076 | 2002 | 1916 | 1972 | 1623 |
| 55° | 774 | 737 | 704 | 681 | 666 | 701 |
| 65° | 124 | 97 | 89 | 72 | 74 | 144 |
| 75° | 6 | 3 | 4 | 4 | 4 | 9 |
| 85° | 1 | 1 | 0 | 4 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P248120

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBW0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8146.2 | 8146.2 | 8146.2 | 8146.2 | 8146.2 | 8146.2 | 8146.2 | 8146.2 | 8146.2 |
| 2.5° | 8135.7 | 8150.3 | 8157.3 | 8194.2 | 8181.7 | 8164.3 | 8174.0 | 8203.9 | 8268.7 |
| 5° | 8091.1 | 8169.1 | 8308.4 | 8355.7 | 8232.5 | 8125.3 | 8182.4 | 8346.0 | 8478.3 |
| 7.5° | 7944.2 | 8140.6 | 8469.9 | 8541.6 | 8256.2 | 8009.7 | 8109.3 | 8462.3 | 8671.1 |
| 10° | 7826.6 | 8070.3 | 8522.8 | 8629.4 | 8227.6 | 7908.7 | 8025.0 | 8456.7 | 8740.1 |
| 12.5° | 7786.9 | 8011.8 | 8456.0 | 8576.4 | 8179.6 | 7873.2 | 7975.6 | 8375.2 | 8652.3 |
| 15° | 7773.0 | 7953.3 | 8322.3 | 8419.1 | 8088.4 | 7838.4 | 7921.3 | 8242.2 | 8472.0 |
| 17.5° | 7729.8 | 7864.2 | 8139.2 | 8217.9 | 7963.0 | 7769.5 | 7833.5 | 8082.8 | 8267.3 |
| 20° | 7618.4 | 7732.6 | 7930.3 | 7985.3 | 7784.1 | 7632.3 | 7673.4 | 7860.7 | 8036.1 |
| 22.5° | 7444.3 | 7518.1 | 7678.3 | 7704.7 | 7545.3 | 7424.1 | 7449.9 | 7589.8 | 7718.0 |
| 25° | 7159.6 | 7211.1 | 7353.1 | 7360.1 | 7226.4 | 7120.6 | 7131.0 | 7248.0 | 7365.0 |
| 27.5° | 6680.5 | 6778.0 | 6882.5 | 6912.4 | 6744.6 | 6620.7 | 6652.7 | 6730.7 | 6867.8 |
| 30° | 6136.8 | 6208.5 | 6310.8 | 6287.9 | 6152.8 | 6041.4 | 6054.6 | 6124.2 | 6226.6 |
| 32.5° | 5458.6 | 5534.5 | 5586.7 | 5539.4 | 5471.2 | 5371.6 | 5341.6 | 5371.6 | 5399.4 |
| 35° | 4768.6 | 4794.4 | 4726.2 | 4699.0 | 4698.3 | 4667.7 | 4634.3 | 4543.7 | 4495.0 |
| 37.5° | 4110.0 | 4029.2 | 3906.7 | 3854.5 | 3914.3 | 3988.8 | 3888.6 | 3770.2 | 3708.9 |
| 40° | 3294.7 | 3296.8 | 3220.2 | 3165.9 | 3188.1 | 3163.1 | 3119.2 | 3043.3 | 3025.2 |
| 42.5° | 2575.4 | 2583.1 | 2607.5 | 2576.8 | 2523.2 | 2441.8 | 2417.4 | 2420.9 | 2474.5 |
| 45° | 2017.0 | 2032.4 | 2076.2 | 2072.0 | 2001.7 | 1950.2 | 1916.1 | 1964.1 | 1971.8 |
| 47.5° | 1604.2 | 1625.7 | 1643.9 | 1642.5 | 1588.2 | 1536.6 | 1521.3 | 1530.4 | 1549.2 |
| 50° | 1297.1 | 1295.0 | 1281.1 | 1263.0 | 1240.7 | 1230.3 | 1212.9 | 1211.5 | 1211.5 |
| 52.5° | 999.1 | 1002.6 | 974.8 | 976.1 | 965.7 | 936.5 | 928.8 | 913.5 | 913.5 |
| 55° | 773.5 | 759.6 | 737.3 | 715.7 | 703.9 | 683.7 | 680.9 | 664.9 | 665.6 |
| 57.5° | 549.3 | 536.8 | 510.4 | 497.1 | 488.1 | 482.5 | 470.7 | 458.1 | 452.6 |
| 60° | 379.5 | 369.0 | 354.4 | 341.2 | 329.3 | 326.5 | 315.4 | 302.9 | 300.1 |
| 62.5° | 229.1 | 226.3 | 200.5 | 195.6 | 186.6 | 182.4 | 174.8 | 166.4 | 167.1 |
| 65° | 123.9 | 105.8 | 96.8 | 91.2 | 89.1 | 78.0 | 71.7 | 70.3 | 73.8 |
| 67.5° | 33.4 | 33.4 | 27.2 | 25.8 | 25.8 | 18.8 | 21.6 | 20.9 | 27.2 |
| 70° | 29.2 | 20.9 | 18.1 | 14.6 | 16.7 | 9.7 | 18.1 | 14.6 | 13.9 |
| 72.5° | 15.3 | 8.4 | 7.0 | 7.0 | 7.7 | 4.9 | 11.1 | 6.3 | 4.9 |
| 75° | 6.3 | 4.2 | 2.8 | 1.4 | 3.5 | 3.5 | 4.2 | 1.4 | 4.2 |
| 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° | 1.4 | 2.1 | 1.4 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 |
| 87.5° | 0.0 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 | 1.4 | 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)