

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: P247942

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009727 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15075.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

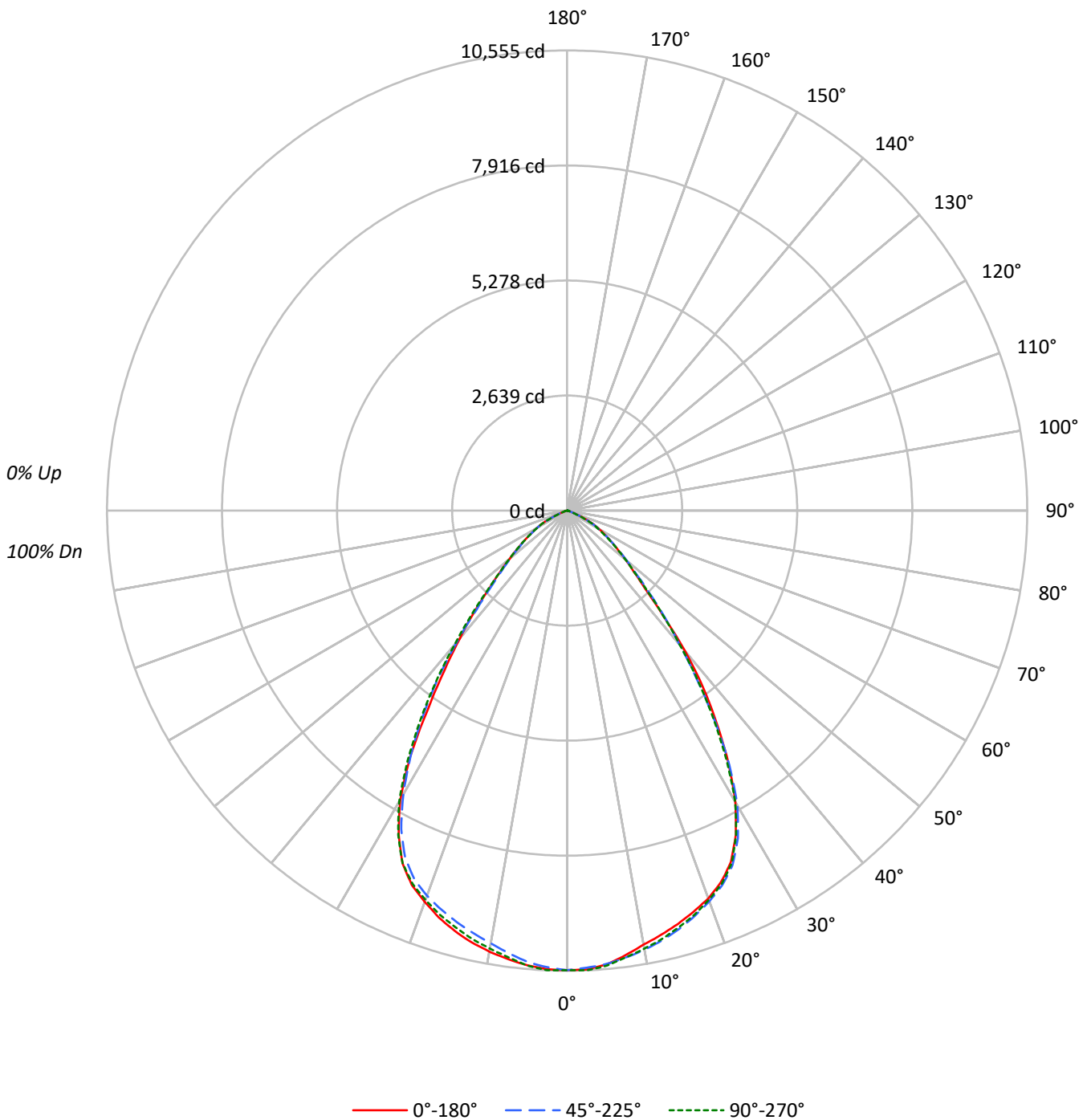
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 91 |
| 2 | 105 | 100 | 95 | 91 | 103 | 98 | 93 | 90 | 94 | 91 | 88 | 91 | 88 | 86 | 89 | 86 | 84 | 82 |
| 3 | 99 | 91 | 85 | 80 | 97 | 90 | 84 | 80 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 74 |
| 4 | 92 | 83 | 77 | 72 | 90 | 82 | 76 | 71 | 80 | 75 | 70 | 78 | 73 | 70 | 76 | 72 | 69 | 67 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 69 | 64 | 74 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 62 | 61 |
| 6 | 81 | 71 | 64 | 59 | 80 | 70 | 63 | 58 | 68 | 62 | 58 | 67 | 61 | 57 | 65 | 61 | 57 | 55 |
| 7 | 76 | 65 | 58 | 53 | 75 | 65 | 58 | 53 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 52 | 51 |
| 8 | 72 | 61 | 54 | 49 | 71 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 52 | 48 | 57 | 52 | 48 | 47 |
| 9 | 68 | 57 | 50 | 45 | 67 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 43 |
| 10 | 64 | 53 | 46 | 42 | 63 | 52 | 46 | 42 | 52 | 46 | 42 | 51 | 45 | 41 | 50 | 45 | 41 | 40 |

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° | 987.4 | 6.5 |
| 10°-20° | 2783.7 | 18.5 |
| 20°-30° | 4035.8 | 26.8 |
| 30°-40° | 3627.7 | 24.1 |
| 40°-50° | 2044.2 | 13.6 |
| 50°-60° | 1089.2 | 7.2 |
| 60°-70° | 435.3 | 2.9 |
| 70°-80° | 58.0 | 0.4 |
| 80°-90° | 13.7 | 0.1 |
| 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 |
| <hr/> | | |
| 0°-30° | 7806.9 | 51.8 |
| 0°-40° | 11434.6 | 75.9 |
| 0°-60° | 14568.0 | 96.6 |
| 0°-90° | 15075.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 15075.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10542 | 10542 | 10542 | 10542 | 10542 | |
| 5° | 10447 | 10438 | 10477 | 10394 | 10471 | 986 |
| 15° | 9816 | 9930 | 9895 | 9773 | 9977 | 2770 |
| 25° | 8891 | 8975 | 8926 | 8788 | 8933 | 4036 |
| 35° | 6006 | 5920 | 5871 | 5790 | 5578 | 3726 |
| 45° | 2510 | 2646 | 2576 | 2455 | 2518 | 2062 |
| 55° | 1221 | 1225 | 1199 | 1171 | 1189 | 1113 |
| 65° | 470 | 448 | 415 | 403 | 420 | 465 |
| 75° | 37 | 47 | 45 | 44 | 37 | 55 |
| 85° | 2 | 11 | 6 | 16 | 4 | 5 |
| 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° | 10541.7 | 10541.7 | 10541.7 | 10541.7 | 10541.7 | 10541.7 | 10541.7 | 10541.7 | 10541.7 |
| 2.5° | 10534.3 | 10512.0 | 10495.4 | 10526.9 | 10554.7 | 10478.7 | 10484.2 | 10517.6 | 10528.7 |
| 5° | 10447.2 | 10426.8 | 10437.9 | 10463.9 | 10476.8 | 10381.4 | 10394.4 | 10450.9 | 10471.3 |
| 7.5° | 10284.1 | 10299.8 | 10339.7 | 10373.0 | 10334.1 | 10222.0 | 10240.5 | 10337.8 | 10377.7 |
| 10° | 10107.1 | 10144.2 | 10227.6 | 10266.5 | 10200.7 | 10057.0 | 10078.4 | 10209.0 | 10272.0 |
| 12.5° | 9966.2 | 10007.0 | 10094.1 | 10123.8 | 10065.4 | 9910.6 | 9932.9 | 10068.2 | 10143.2 |
| 15° | 9816.1 | 9853.2 | 9930.1 | 9954.2 | 9894.9 | 9752.2 | 9772.6 | 9902.3 | 9977.4 |
| 17.5° | 9646.5 | 9679.0 | 9747.5 | 9769.8 | 9717.9 | 9566.8 | 9599.3 | 9719.7 | 9785.5 |
| 20° | 9467.7 | 9490.9 | 9539.0 | 9552.0 | 9502.0 | 9388.0 | 9402.8 | 9506.6 | 9549.2 |
| 22.5° | 9224.0 | 9253.6 | 9298.1 | 9312.0 | 9265.7 | 9140.6 | 9154.5 | 9256.4 | 9302.7 |
| 25° | 8891.3 | 8934.9 | 8974.7 | 8992.3 | 8925.6 | 8759.7 | 8787.5 | 8874.6 | 8933.0 |
| 27.5° | 8375.2 | 8410.4 | 8480.8 | 8482.7 | 8390.9 | 8218.6 | 8241.7 | 8353.8 | 8368.7 |
| 30° | 7711.7 | 7744.1 | 7806.2 | 7792.3 | 7704.3 | 7499.5 | 7518.0 | 7627.3 | 7652.4 |
| 32.5° | 6899.0 | 6911.0 | 6927.7 | 6923.1 | 6815.6 | 6719.2 | 6681.2 | 6694.2 | 6703.5 |
| 35° | 6005.7 | 6027.0 | 5919.5 | 5861.1 | 5871.3 | 5879.7 | 5789.8 | 5656.3 | 5577.6 |
| 37.5° | 5140.2 | 5038.3 | 4905.7 | 4860.3 | 4944.7 | 4972.5 | 4890.9 | 4691.7 | 4618.5 |
| 40° | 4199.6 | 4108.8 | 4004.1 | 4012.4 | 4010.6 | 4030.0 | 3927.2 | 3854.0 | 3829.0 |
| 42.5° | 3232.2 | 3233.1 | 3301.7 | 3254.4 | 3245.2 | 3109.9 | 3070.0 | 3110.8 | 3155.3 |
| 45° | 2510.3 | 2593.7 | 2646.5 | 2632.6 | 2576.1 | 2454.7 | 2454.7 | 2526.1 | 2517.7 |
| 47.5° | 2066.5 | 2096.1 | 2136.0 | 2133.2 | 2092.4 | 2003.4 | 2018.3 | 2067.4 | 2092.4 |
| 50° | 1746.8 | 1759.7 | 1778.3 | 1762.5 | 1737.5 | 1681.9 | 1681.0 | 1715.2 | 1730.1 |
| 52.5° | 1461.3 | 1468.8 | 1464.1 | 1455.8 | 1441.9 | 1412.2 | 1403.0 | 1431.7 | 1435.4 |
| 55° | 1221.3 | 1235.2 | 1225.0 | 1201.9 | 1199.1 | 1172.2 | 1171.3 | 1194.5 | 1188.9 |
| 57.5° | 1017.5 | 1003.6 | 989.7 | 970.2 | 967.4 | 959.1 | 968.4 | 972.1 | 966.5 |
| 60° | 847.0 | 847.9 | 821.0 | 802.5 | 800.6 | 788.6 | 801.6 | 811.8 | 811.8 |
| 62.5° | 682.0 | 678.3 | 661.6 | 633.8 | 638.5 | 633.8 | 639.4 | 641.2 | 632.9 |
| 65° | 469.8 | 470.7 | 447.6 | 414.2 | 415.1 | 411.4 | 403.1 | 416.1 | 419.8 |
| 67.5° | 250.2 | 248.3 | 230.7 | 218.7 | 214.1 | 215.9 | 225.2 | 228.0 | 217.8 |
| 70° | 136.2 | 131.6 | 135.3 | 122.3 | 125.1 | 120.5 | 125.1 | 132.5 | 129.7 |
| 72.5° | 69.5 | 74.1 | 66.7 | 61.2 | 68.6 | 67.6 | 78.8 | 72.3 | 64.9 |
| 75° | 37.1 | 39.8 | 47.3 | 43.6 | 45.4 | 43.6 | 44.5 | 41.7 | 37.1 |
| 77.5° | 26.9 | 29.7 | 34.3 | 33.4 | 32.4 | 30.6 | 34.3 | 38.0 | 30.6 |
| 80° | 15.8 | 19.5 | 21.3 | 25.0 | 22.2 | 25.0 | 28.7 | 23.2 | 18.5 |
| 82.5° | 10.2 | 15.8 | 15.8 | 16.7 | 24.1 | 15.8 | 25.9 | 23.2 | 18.5 |
| 85° | 1.9 | 2.8 | 11.1 | 6.5 | 5.6 | 16.7 | 15.8 | 12.0 | 3.7 |
| 87.5° | 0.0 | 6.5 | 14.8 | 7.4 | 12.0 | 11.1 | 15.8 | 16.7 | 3.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)