

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: P248122

Luminaire Tested: **LD8B200D010 ER8B200927 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248122
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: LD8B200D010 ER8B200927 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: 17398.1 lumens
Efficiency: N/A
Efficacy: 77.9 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

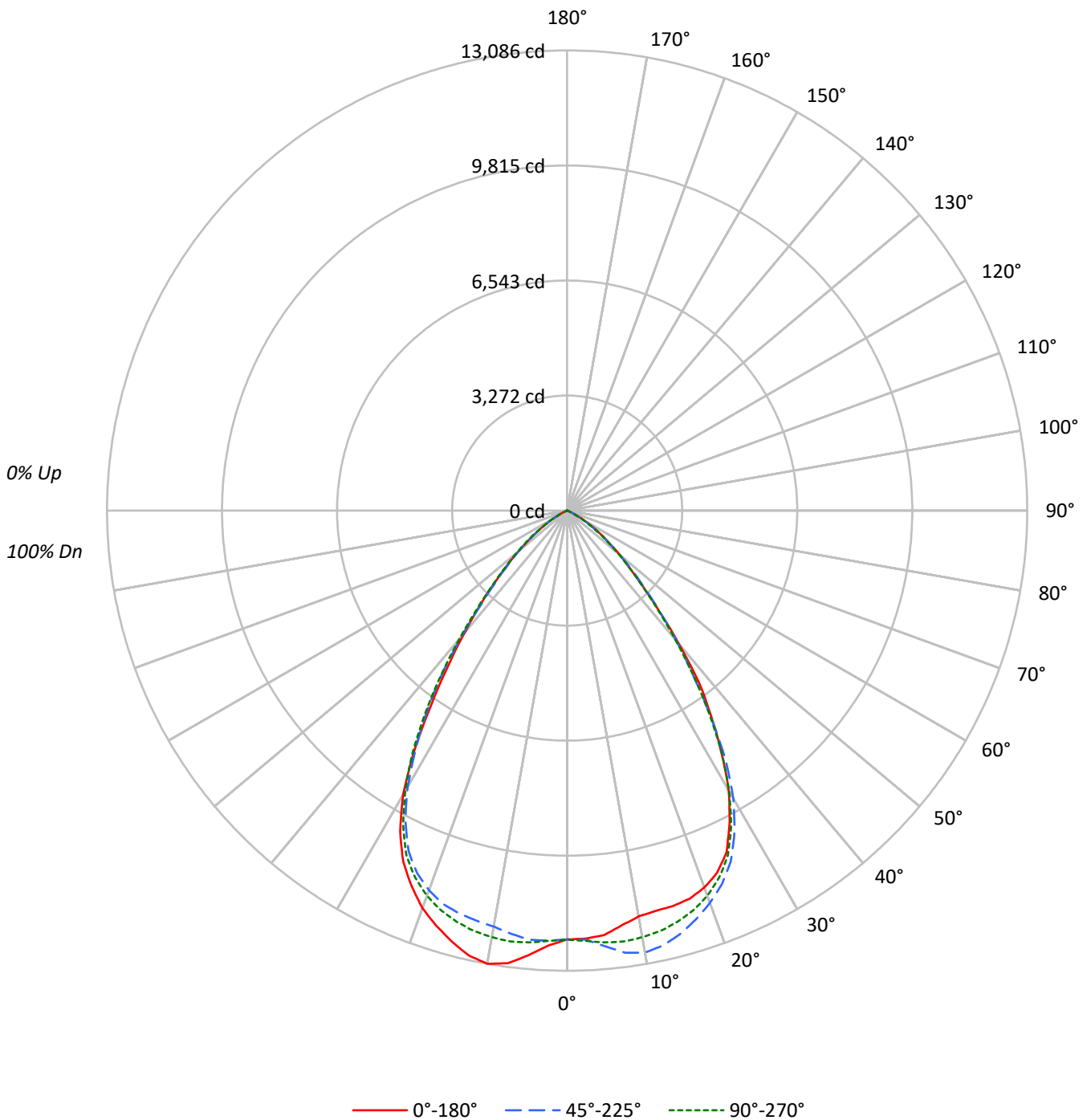
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 1179.9 | 6.8 |
| 10°-20° | 3421.6 | 19.7 |
| 20°-30° | 4913.6 | 28.2 |
| 30°-40° | 4343.3 | 25.0 |
| 40°-50° | 2377.5 | 13.7 |
| 50°-60° | 978.8 | 5.6 |
| 60°-70° | 175.4 | 1.0 |
| 70°-80° | 7.6 | 0.0 |
| 80°-90° | 0.6 | 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° | 9515.0 | 54.7 |
| 0°-40° | 13858.3 | 79.7 |
| 0°-60° | 17214.5 | 98.9 |
| 0°-90° | 17398.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 17398.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 12197 | 12197 | 12197 | 12197 | 12197 | |
| 5° | 12115 | 12440 | 12326 | 12251 | 12694 | ### |
| 15° | 11638 | 12461 | 12110 | 11860 | 12685 | 3287 |
| 25° | 10720 | 11010 | 10820 | 10677 | 11027 | 4849 |
| 35° | 7140 | 7076 | 7035 | 6939 | 6730 | 4429 |
| 45° | 3020 | 3109 | 2997 | 2869 | 2952 | 2431 |
| 55° | 1158 | 1104 | 1054 | 1020 | 997 | 1050 |
| 65° | 186 | 145 | 133 | 107 | 110 | 216 |
| 75° | 9 | 4 | 5 | 6 | 6 | 14 |
| 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° | 12196.9 | 12196.9 | 12196.9 | 12196.9 | 12196.9 | 12196.9 | 12196.9 | 12196.9 | 12196.9 |
| 2.5° | 12181.3 | 12203.1 | 12213.6 | 12268.8 | 12250.0 | 12224.0 | 12238.5 | 12283.4 | 12380.4 |
| 5° | 12114.6 | 12231.3 | 12439.8 | 12510.7 | 12326.2 | 12165.6 | 12251.1 | 12496.1 | 12694.2 |
| 7.5° | 11894.5 | 12188.6 | 12681.7 | 12789.0 | 12361.6 | 11992.6 | 12141.7 | 12670.2 | 12982.9 |
| 10° | 11718.3 | 12083.3 | 12760.9 | 12920.4 | 12318.9 | 11841.4 | 12015.4 | 12661.9 | 13086.1 |
| 12.5° | 11658.9 | 11995.6 | 12660.8 | 12841.1 | 12247.0 | 11788.2 | 11941.4 | 12539.8 | 12954.7 |
| 15° | 11638.1 | 11908.1 | 12460.6 | 12605.5 | 12110.4 | 11736.1 | 11860.2 | 12340.8 | 12684.7 |
| 17.5° | 11573.4 | 11774.7 | 12186.4 | 12304.2 | 11922.8 | 11632.9 | 11728.8 | 12102.1 | 12378.3 |
| 20° | 11406.7 | 11577.7 | 11873.7 | 11956.1 | 11654.8 | 11427.5 | 11489.1 | 11769.5 | 12032.2 |
| 22.5° | 11146.1 | 11256.5 | 11496.4 | 11536.0 | 11297.2 | 11115.9 | 11154.4 | 11364.0 | 11555.8 |
| 25° | 10719.7 | 10796.8 | 11009.5 | 11019.9 | 10819.8 | 10661.3 | 10676.9 | 10852.1 | 11027.2 |
| 27.5° | 10002.5 | 10148.4 | 10304.8 | 10349.7 | 10098.4 | 9912.8 | 9960.8 | 10077.5 | 10282.9 |
| 30° | 9188.3 | 9295.6 | 9449.0 | 9414.6 | 9212.3 | 9045.4 | 9065.4 | 9169.5 | 9322.8 |
| 32.5° | 8172.9 | 8286.6 | 8364.8 | 8293.8 | 8191.7 | 8042.6 | 7997.8 | 8042.6 | 8084.4 |
| 35° | 7139.8 | 7178.4 | 7076.2 | 7035.6 | 7034.6 | 6988.7 | 6938.7 | 6803.1 | 6730.2 |
| 37.5° | 6153.6 | 6032.8 | 5849.3 | 5771.1 | 5860.8 | 5972.3 | 5822.2 | 5644.9 | 5553.2 |
| 40° | 4933.0 | 4936.0 | 4821.4 | 4740.1 | 4773.5 | 4735.9 | 4670.2 | 4556.6 | 4529.5 |
| 42.5° | 3856.0 | 3867.5 | 3904.1 | 3858.2 | 3777.9 | 3655.9 | 3619.5 | 3624.6 | 3705.0 |
| 45° | 3020.1 | 3043.0 | 3108.6 | 3102.4 | 2997.1 | 2919.9 | 2868.9 | 2940.8 | 2952.2 |
| 47.5° | 2401.9 | 2434.2 | 2461.3 | 2459.1 | 2377.9 | 2300.7 | 2277.8 | 2291.4 | 2319.5 |
| 50° | 1942.1 | 1938.9 | 1918.1 | 1891.0 | 1857.7 | 1842.1 | 1816.0 | 1814.0 | 1814.0 |
| 52.5° | 1495.9 | 1501.2 | 1459.5 | 1461.5 | 1445.9 | 1402.1 | 1390.6 | 1367.8 | 1367.8 |
| 55° | 1158.2 | 1137.4 | 1104.0 | 1071.7 | 1053.9 | 1023.8 | 1019.6 | 995.5 | 996.6 |
| 57.5° | 822.5 | 803.7 | 764.1 | 744.3 | 730.8 | 722.5 | 704.7 | 685.9 | 677.6 |
| 60° | 568.1 | 552.5 | 530.7 | 510.9 | 493.1 | 488.9 | 472.3 | 453.5 | 449.3 |
| 62.5° | 343.0 | 338.8 | 300.3 | 293.0 | 279.3 | 273.2 | 261.7 | 249.2 | 250.2 |
| 65° | 185.5 | 158.4 | 144.9 | 136.6 | 133.4 | 116.8 | 107.3 | 105.3 | 110.5 |
| 67.5° | 50.1 | 50.1 | 40.6 | 38.6 | 38.6 | 28.1 | 32.3 | 31.3 | 40.6 |
| 70° | 43.8 | 31.3 | 27.1 | 21.9 | 25.0 | 14.6 | 27.1 | 21.9 | 20.8 |
| 72.5° | 23.0 | 12.5 | 10.5 | 10.5 | 11.5 | 7.3 | 16.7 | 9.3 | 7.3 |
| 75° | 9.3 | 6.3 | 4.2 | 2.1 | 5.2 | 5.2 | 6.3 | 2.1 | 6.3 |
| 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° | 2.1 | 3.2 | 2.1 | 0.0 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 |
| 87.5° | 0.0 | 2.1 | 1.0 | 0.0 | 0.0 | 0.0 | 2.1 | 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)