

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: P248100

Luminaire Tested: **LD8B175D010 ER8B175840 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248100
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 ER8B175840 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18719.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

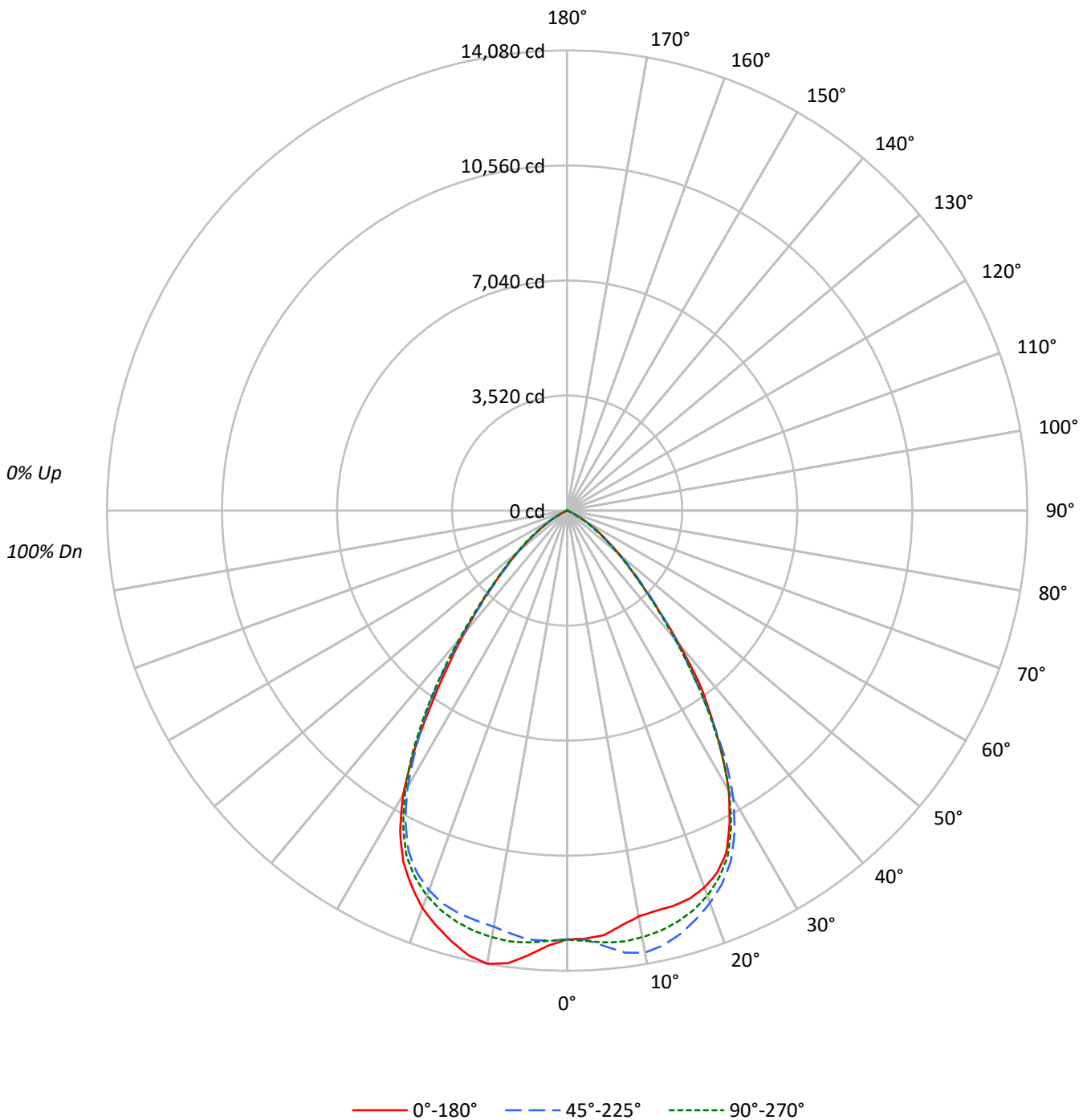
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 404662 | 404662 | 404662 |
| 5° | 403465 | 410513 | 422768 |
| 10° | 394785 | 415013 | 440861 |
| 15° | 399744 | 415965 | 435694 |
| 20° | 402733 | 411491 | 424817 |
| 25° | 392420 | 396081 | 403676 |
| 30° | 352004 | 352923 | 357157 |
| 35° | 289179 | 284914 | 272585 |
| 40° | 213648 | 206740 | 196174 |
| 45° | 141699 | 140622 | 138520 |
| 50° | 100244 | 95883 | 93624 |
| 55° | 66992 | 60966 | 57648 |
| 60° | 37700 | 32717 | 29813 |
| 65° | 14564 | 10478 | 8676 |
| 70° | 4247 | 2425 | 2020 |
| 75° | 1203 | 667 | 798 |
| 80° | 0 | 0 | 0 |
| 85° | 778 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1269.4 | 6.8 |
| 10°-20° | 3681.3 | 19.7 |
| 20°-30° | 5286.6 | 28.2 |
| 30°-40° | 4673.1 | 25.0 |
| 40°-50° | 2558.0 | 13.7 |
| 50°-60° | 1053.1 | 5.6 |
| 60°-70° | 188.7 | 1.0 |
| 70°-80° | 8.2 | 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° | 10237.3 | 54.7 |
| 0°-40° | 14910.4 | 79.7 |
| 0°-60° | 18521.5 | 98.9 |
| 0°-90° | 18719.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 18719.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 13123 | 13123 | 13123 | 13123 | 13123 | |
| 5° | 13034 | 13384 | 13262 | 13181 | 13658 | ### |
| 15° | 12522 | 13407 | 13030 | 12761 | 13648 | 3536 |
| 25° | 11534 | 11845 | 11641 | 11488 | 11864 | 5217 |
| 35° | 7682 | 7614 | 7569 | 7466 | 7241 | 4765 |
| 45° | 3249 | 3345 | 3225 | 3087 | 3176 | 2615 |
| 55° | 1246 | 1188 | 1134 | 1097 | 1072 | 1129 |
| 65° | 200 | 156 | 144 | 116 | 119 | 232 |
| 75° | 10 | 4 | 6 | 7 | 7 | 15 |
| 85° | 2 | 2 | 0 | 7 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P248100

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBW0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13122.9 | 13122.9 | 13122.9 | 13122.9 | 13122.9 | 13122.9 | 13122.9 | 13122.9 | 13122.9 |
| 2.5° | 13106.1 | 13129.6 | 13140.8 | 13200.3 | 13180.1 | 13152.0 | 13167.7 | 13216.0 | 13320.3 |
| 5° | 13034.3 | 13159.9 | 13384.2 | 13460.5 | 13262.0 | 13089.2 | 13181.2 | 13444.8 | 13657.9 |
| 7.5° | 12797.6 | 13113.9 | 13644.4 | 13760.0 | 13300.1 | 12903.0 | 13063.4 | 13632.1 | 13968.6 |
| 10° | 12608.1 | 13000.6 | 13729.7 | 13901.3 | 13254.1 | 12740.4 | 12927.7 | 13623.1 | 14079.6 |
| 12.5° | 12544.1 | 12906.4 | 13622.0 | 13816.0 | 13176.7 | 12683.2 | 12848.1 | 13491.9 | 13938.3 |
| 15° | 12521.7 | 12812.2 | 13406.6 | 13562.6 | 13029.8 | 12627.1 | 12760.6 | 13277.7 | 13647.8 |
| 17.5° | 12452.2 | 12668.6 | 13111.7 | 13238.4 | 12827.9 | 12516.1 | 12619.3 | 13020.8 | 13318.0 |
| 20° | 12272.7 | 12456.6 | 12775.2 | 12863.8 | 12539.6 | 12295.1 | 12361.3 | 12663.0 | 12945.7 |
| 22.5° | 11992.3 | 12111.2 | 12369.2 | 12411.8 | 12154.9 | 11959.8 | 12001.3 | 12226.7 | 12433.1 |
| 25° | 11533.6 | 11616.6 | 11845.4 | 11856.6 | 11641.2 | 11470.7 | 11487.6 | 11676.0 | 11864.4 |
| 27.5° | 10761.9 | 10918.9 | 11087.2 | 11135.4 | 10865.1 | 10665.4 | 10717.0 | 10842.6 | 11063.6 |
| 30° | 9885.9 | 10001.4 | 10166.3 | 10129.3 | 9911.7 | 9732.2 | 9753.6 | 9865.7 | 10030.6 |
| 32.5° | 8793.5 | 8915.7 | 8999.8 | 8923.6 | 8813.6 | 8653.2 | 8605.0 | 8653.2 | 8698.1 |
| 35° | 7681.9 | 7723.4 | 7613.5 | 7569.8 | 7568.6 | 7519.3 | 7465.5 | 7319.7 | 7241.1 |
| 37.5° | 6620.9 | 6490.8 | 6293.4 | 6209.3 | 6305.7 | 6425.7 | 6264.2 | 6073.5 | 5974.8 |
| 40° | 5307.5 | 5310.8 | 5187.5 | 5100.0 | 5135.9 | 5095.5 | 5024.8 | 4902.6 | 4873.4 |
| 42.5° | 4148.8 | 4161.2 | 4200.4 | 4151.1 | 4064.7 | 3933.5 | 3894.2 | 3899.9 | 3986.2 |
| 45° | 3249.3 | 3274.0 | 3344.7 | 3337.9 | 3224.6 | 3141.6 | 3086.7 | 3164.1 | 3176.4 |
| 47.5° | 2584.2 | 2619.0 | 2648.1 | 2645.9 | 2558.4 | 2475.4 | 2450.7 | 2465.3 | 2495.6 |
| 50° | 2089.6 | 2086.2 | 2063.8 | 2034.6 | 1998.7 | 1981.9 | 1953.9 | 1951.6 | 1951.6 |
| 52.5° | 1609.5 | 1615.1 | 1570.3 | 1572.5 | 1555.7 | 1508.6 | 1496.2 | 1471.6 | 1471.6 |
| 55° | 1246.1 | 1223.7 | 1187.8 | 1153.0 | 1134.0 | 1101.4 | 1096.9 | 1071.1 | 1072.3 |
| 57.5° | 885.0 | 864.8 | 822.1 | 800.8 | 786.3 | 777.3 | 758.2 | 738.0 | 729.0 |
| 60° | 611.3 | 594.5 | 570.9 | 549.6 | 530.5 | 526.0 | 508.1 | 487.9 | 483.4 |
| 62.5° | 369.0 | 364.5 | 323.0 | 315.2 | 300.6 | 293.9 | 281.5 | 268.1 | 269.2 |
| 65° | 199.6 | 170.5 | 155.9 | 146.9 | 143.6 | 125.6 | 115.5 | 113.3 | 118.9 |
| 67.5° | 53.8 | 53.8 | 43.7 | 41.5 | 41.5 | 30.3 | 34.8 | 33.6 | 43.7 |
| 70° | 47.1 | 33.6 | 29.2 | 23.6 | 26.9 | 15.7 | 29.2 | 23.6 | 22.4 |
| 72.5° | 24.7 | 13.5 | 11.2 | 11.2 | 12.3 | 7.9 | 17.9 | 10.1 | 7.9 |
| 75° | 10.1 | 6.7 | 4.5 | 2.2 | 5.6 | 5.6 | 6.7 | 2.2 | 6.7 |
| 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° | 2.2 | 3.4 | 2.2 | 0.0 | 0.0 | 0.0 | 6.7 | 0.0 | 0.0 |
| 87.5° | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 2.2 | 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)