

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: P248091

Luminaire Tested: **LD8B175D010 ER8B175827 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248091
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 ER8B175827 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17677.0 lumens
Efficiency: N/A
Efficacy: 99.8 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

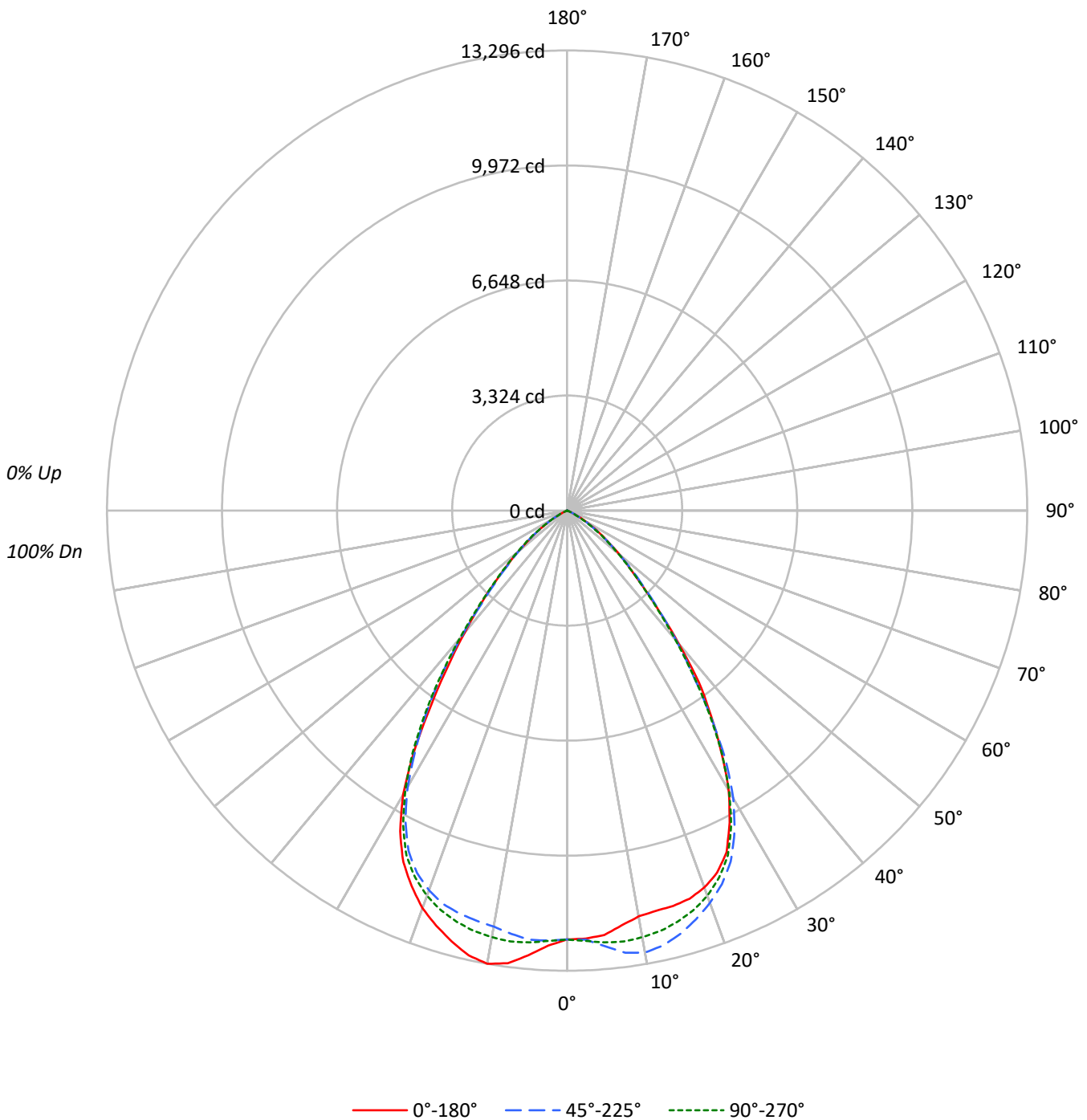
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 382136 | 382136 | 382136 |
| 5° | 381005 | 387660 | 399234 |
| 10° | 372807 | 391911 | 416321 |
| 15° | 377493 | 392810 | 411441 |
| 20° | 380313 | 388586 | 401167 |
| 25° | 370574 | 374034 | 381206 |
| 30° | 332410 | 333279 | 337274 |
| 35° | 273082 | 269054 | 257415 |
| 40° | 201753 | 195232 | 185253 |
| 45° | 133810 | 132794 | 130810 |
| 50° | 94660 | 90549 | 88414 |
| 55° | 63261 | 57568 | 54439 |
| 60° | 35604 | 30898 | 28154 |
| 65° | 13754 | 9894 | 8194 |
| 70° | 4012 | 2290 | 1911 |
| 75° | 1132 | 631 | 763 |
| 80° | 0 | 0 | 0 |
| 85° | 743 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1198.8 | 6.8 |
| 10°-20° | 3476.4 | 19.7 |
| 20°-30° | 4992.3 | 28.2 |
| 30°-40° | 4412.9 | 25.0 |
| 40°-50° | 2415.6 | 13.7 |
| 50°-60° | 994.5 | 5.6 |
| 60°-70° | 178.2 | 1.0 |
| 70°-80° | 7.7 | 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° | 9667.5 | 54.7 |
| 0°-40° | 14080.4 | 79.7 |
| 0°-60° | 17490.5 | 98.9 |
| 0°-90° | 17677.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 17677.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 12392 | 12392 | 12392 | 12392 | 12392 | |
| 5° | 12309 | 12639 | 12524 | 12448 | 12898 | ### |
| 15° | 11825 | 12660 | 12304 | 12050 | 12888 | 3340 |
| 25° | 10892 | 11186 | 10993 | 10848 | 11204 | 4927 |
| 35° | 7254 | 7190 | 7147 | 7050 | 6838 | 4500 |
| 45° | 3068 | 3158 | 3045 | 2915 | 3000 | 2469 |
| 55° | 1177 | 1122 | 1071 | 1036 | 1013 | 1066 |
| 65° | 188 | 147 | 136 | 109 | 112 | 219 |
| 75° | 10 | 4 | 5 | 6 | 6 | 14 |
| 85° | 2 | 2 | 0 | 6 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P248091

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBW0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12392.4 | 12392.4 | 12392.4 | 12392.4 | 12392.4 | 12392.4 | 12392.4 | 12392.4 | 12392.4 |
| 2.5° | 12376.5 | 12398.7 | 12409.3 | 12465.5 | 12446.4 | 12419.9 | 12434.8 | 12480.3 | 12578.8 |
| 5° | 12308.7 | 12427.3 | 12639.2 | 12711.2 | 12523.7 | 12360.6 | 12447.5 | 12696.4 | 12897.6 |
| 7.5° | 12085.2 | 12383.9 | 12884.9 | 12994.0 | 12559.7 | 12184.8 | 12336.3 | 12873.3 | 13191.0 |
| 10° | 11906.2 | 12276.9 | 12965.4 | 13127.5 | 12516.3 | 12031.2 | 12208.1 | 12864.8 | 13295.9 |
| 12.5° | 11845.9 | 12188.0 | 12863.7 | 13047.0 | 12443.2 | 11977.2 | 12132.9 | 12740.9 | 13162.4 |
| 15° | 11824.7 | 12099.0 | 12660.4 | 12807.6 | 12304.5 | 11924.2 | 12050.3 | 12538.6 | 12888.1 |
| 17.5° | 11759.0 | 11963.4 | 12381.8 | 12501.5 | 12113.8 | 11819.4 | 11916.8 | 12296.0 | 12576.7 |
| 20° | 11589.5 | 11763.2 | 12064.0 | 12147.7 | 11841.6 | 11610.7 | 11673.2 | 11958.1 | 12225.0 |
| 22.5° | 11324.7 | 11437.0 | 11680.6 | 11720.9 | 11478.3 | 11294.0 | 11333.2 | 11546.1 | 11741.0 |
| 25° | 10891.5 | 10969.9 | 11186.0 | 11196.6 | 10993.2 | 10832.2 | 10848.1 | 11026.0 | 11204.0 |
| 27.5° | 10162.8 | 10311.1 | 10470.0 | 10515.5 | 10260.3 | 10071.7 | 10120.5 | 10239.1 | 10447.7 |
| 30° | 9335.6 | 9444.7 | 9600.4 | 9565.4 | 9360.0 | 9190.5 | 9210.6 | 9316.5 | 9472.2 |
| 32.5° | 8304.0 | 8419.4 | 8498.8 | 8426.8 | 8323.0 | 8171.6 | 8126.0 | 8171.6 | 8213.9 |
| 35° | 7254.3 | 7293.5 | 7189.7 | 7148.4 | 7147.3 | 7100.7 | 7049.9 | 6912.2 | 6838.1 |
| 37.5° | 6252.3 | 6129.5 | 5943.1 | 5863.6 | 5954.7 | 6068.0 | 5915.5 | 5735.5 | 5642.2 |
| 40° | 5012.0 | 5015.2 | 4898.7 | 4816.1 | 4850.0 | 4811.8 | 4745.1 | 4629.7 | 4602.1 |
| 42.5° | 3917.9 | 3929.6 | 3966.6 | 3920.0 | 3838.5 | 3714.5 | 3677.5 | 3682.8 | 3764.3 |
| 45° | 3068.4 | 3091.7 | 3158.5 | 3152.1 | 3045.1 | 2966.8 | 2914.9 | 2987.9 | 2999.6 |
| 47.5° | 2440.3 | 2473.2 | 2500.7 | 2498.6 | 2416.0 | 2337.6 | 2314.3 | 2328.1 | 2356.7 |
| 50° | 1973.2 | 1970.1 | 1948.9 | 1921.3 | 1887.5 | 1871.6 | 1845.1 | 1843.0 | 1843.0 |
| 52.5° | 1519.9 | 1525.2 | 1482.8 | 1485.0 | 1469.1 | 1424.6 | 1412.9 | 1389.6 | 1389.6 |
| 55° | 1176.7 | 1155.6 | 1121.7 | 1088.8 | 1070.8 | 1040.1 | 1035.9 | 1011.5 | 1012.6 |
| 57.5° | 835.7 | 816.6 | 776.4 | 756.3 | 742.5 | 734.0 | 716.0 | 696.9 | 688.5 |
| 60° | 577.3 | 561.4 | 539.1 | 519.0 | 501.0 | 496.8 | 479.8 | 460.7 | 456.5 |
| 62.5° | 348.5 | 344.2 | 305.0 | 297.6 | 283.9 | 277.5 | 265.9 | 253.1 | 254.2 |
| 65° | 188.5 | 161.0 | 147.2 | 138.8 | 135.6 | 118.6 | 109.1 | 107.0 | 112.3 |
| 67.5° | 50.8 | 50.8 | 41.3 | 39.2 | 39.2 | 28.6 | 32.8 | 31.8 | 41.3 |
| 70° | 44.5 | 31.8 | 27.5 | 22.2 | 25.4 | 14.8 | 27.5 | 22.2 | 21.2 |
| 72.5° | 23.3 | 12.7 | 10.6 | 10.6 | 11.7 | 7.4 | 16.9 | 9.5 | 7.4 |
| 75° | 9.5 | 6.4 | 4.2 | 2.1 | 5.3 | 5.3 | 6.4 | 2.1 | 6.4 |
| 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 | 6.4 | 0.0 | 0.0 |
| 87.5° | 0.0 | 2.1 | 1.1 | 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)